



PERRY REST AREA - LANDSCAPE IMPROVEMENTS

PERRY, UT

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**PERRY REST AREA - LANDSCAPE
IMPROVEMENTS**
NORTHBOUND I-15
PERRY, UTAH 84302
UTAH DEPARTMENT OF TRANSPORTATION

MARK:	DATE:	DESCRIPTION:
PROJECT #:		824308
DRAWN BY:		K. ALTHOUSE
CHECKED BY:		B. WRIGHT
ISSUED:		06.26.2026



COVER SHEET

G-001

BID SET

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SECTION 31 1000
SITE CLEARING

PART 1 - GENERAL

1.01 SECTION INCLUDES

- CLEARING AND PROTECTION OF VEGETATION.
- CLEARING AND GRUBBING.
- STRIPPING AND STOCKPILING TOPSOIL.
- REMOVING ABOVE- AND BELOW- GRADE SITE IMPROVEMENTS.
- TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES.
- REMOVAL OF EXISTING DEBRIS.

1.02 DEFINITIONS

- TOPSOIL: NATURAL OR CULTIVATED SURFACE-SOIL LAYER CONTAINING ORGANIC MATTER AND SAND, SILT, AND CLAY PARTICLES; FRIABLE, PEROUS, AND BLACK OR A DARKER SHADE OF BROWN, GRAY, OR RED THAN UNDERLYING SUBSOIL, REASONABLY FREE OF SUBSOIL, CLAY LUMPS, GRAVEL, AND OTHER OBJECTS MORE THAN 2 INCHES IN DIAMETER; AND FREE OF SUBSOIL AND WEEDS, ROOTS, TOXIC MATERIALS, OR OTHER NON-SOIL MATERIALS.

1.03 MATERIAL OWNERSHIP

- EXCEPT FOR STRIPPED TOPSOIL OR OTHER MATERIALS INDICATED TO REMAIN OWNER'S PROPERTY, CLEARED MATERIALS SHALL BECOME CONTRACTOR'S PROPERTY AND SHALL BE REMOVED FROM PROJECT SITE.

1.04 SUBMITTALS

- PHOTOGRAPHS OR VIDEOTAPE, SUFFICIENTLY DETAILED, OF EXISTING CONDITIONS OF TREES AND PLANTINGS, ADJOINING CONSTRUCTION, AND SITE IMPROVEMENTS THAT MIGHT BE MISCONSTRUED AS DAMAGE CAUSED BY SITE CLEARING.
- RECORD DRAWINGS, IDENTIFYING AND ACCURATELY LOCATING CAPPED UTILITIES AND OTHER SUBSURFACE STRUCTURAL, ELECTRICAL, AND MECHANICAL CONDITIONS.

1.05 QUALITY ASSURANCE

- PRE-INSTALLATION CONFERENCE: CONDUCT CONFERENCE AT PROJECT SITE FOR PROJECT MANAGEMENT AND COORDINATION.

1.06 PROJECT CONDITIONS

- TRAFFIC: MINIMIZE INTERFERENCE WITH ADJOINING ROADS, STREETS, WALKS, AND OTHER ADJACENT OCCUPIED OR USED FACILITIES DURING SITE-CLEARING OPERATIONS.
 - DO NOT CLOSE OR OBSTRUCT STREETS, WALKS, OR OTHER ADJACENT OCCUPIED OR USED FACILITIES WITHOUT PERMISSION FROM OWNER AND AUTHORITIES HAVING JURISDICTION.
- PROVIDE ALTERNATE ROUTES AROUND CLOSED OR OBSTRUCTED TRAFFIC WAYS IF REQUIRED BY AUTHORITIES HAVING JURISDICTION.
- SALVAGE IMPROVEMENTS: CAREFULLY REMOVE ITEMS INDICATED TO BE SALVAGED AND STORE ON OWNER'S PREMISES WHERE APPROVED.
- UTILITY LOCATOR SERVICE: NOTIFY UTILITY LOCATOR SERVICE FOR AREA WHERE PROJECT IS LOCATED BEFORE SITE CLEARING.
- DO NOT COMMENCE SITE CLEARING OPERATIONS UNTIL TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES ARE IN PLACE.

PART 2 - PRODUCTS

2.01 SOIL MATERIALS

- SATISFACTORY SOIL MATERIAL: AS SPECIFIED IN SOIL PREPARATION SECTION.
 - OBTAIN APPROVED BORROW SOIL MATERIALS OFF-SITE WHEN SATISFACTORY SOIL MATERIALS ARE NOT AVAILABLE ON-SITE.

PART 3 - EXECUTION

3.01 PREPARATION

- PROTECT AND MAINTAIN BENCHMARKS AND SURVEY CONTROL POINTS FROM DISTURBANCE DURING CONSTRUCTION.
- PROTECT EXISTING SITE IMPROVEMENTS TO REMAIN FROM DAMAGE DURING CONSTRUCTION.
 - RESTORE DAMAGED IMPROVEMENTS TO THEIR ORIGINAL CONDITION, AS ACCEPTABLE TO OWNER.

3.02 TEMPORARY EROSION AND SEDIMENTATION CONTROL

- PROVIDE TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES TO PREVENT SOIL EROSION AND DISCHARGE OF SOIL-BEARING WATER RUNOFF OR AIRBORNE DUST TO ADJACENT PROPERTIES AND WALKWAYS, ACCORDING TO REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION, SEDIMENT AND EROSION CONTROL DRAWINGS, A SEDIMENT AND EROSION CONTROL PLAN, SPECIFIC TO THE SITE, THAT COMPLIES WITH EPA 832/R-92-005 OR REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION, WHICHEVER IS MORE STRINGENT.
- INSPECT, REPAIR, AND MAINTAIN EROSION AND SEDIMENTATION CONTROL MEASURES DURING CONSTRUCTION UNTIL PERMANENT VEGETATION HAS BEEN ESTABLISHED.
- REMOVE EROSION AND SEDIMENTATION CONTROLS AND RESTORE AND STABILIZE AREAS DISTURBED DURING REMOVAL.

3.03 SITE CLEARING AND GRUBBING

- COMPLY WITH OTHER REQUIREMENTS SPECIFIED IN SECTION 01 7000.
- REMOVE OBSTRUCTIONS, GRASS, AND OTHER VEGETATION TO PERMIT INSTALLATION OF NEW CONSTRUCTION.
- CLEAR DEPRESSIONS CAUSED BY CLEARING AND GRUBBING OPERATIONS WITH SATISFACTORY SOIL MATERIAL UNLESS FURTHER EXCAVATION OR EARTHWORK IS INDICATED.
 - PLACE FILL MATERIAL IN HORIZONTAL LAYERS NOT EXCEEDING A LOOSE DEPTH OF 8 INCHES AND COMPACT EACH LAYER TO A DENSITY EQUAL TO ADJACENT ORIGINAL GROUND.

3.04 EXISTING UTILITIES AND BUILT ELEMENTS

- COORDINATE WORK WITH UTILITY COMPANIES; NOTIFY BEFORE STARTING WORK AND COMPLY WITH THEIR REQUIREMENTS; OBTAIN REQUIRED PERMITS.
 - OWNER WILL ARRANGE TO SHUT OFF INDICATED UTILITIES WHEN REQUESTED BY CONTRACTOR.
- PROTECT EXISTING UTILITIES TO REMAIN FROM DAMAGE.
- DO NOT DISRUPT PUBLIC UTILITIES WITHOUT PERMIT FROM AUTHORITY HAVING JURISDICTION.
 - NOTIFY ARCHITECT NOT LESS THAN TWO DAYS IN ADVANCE OF PROPOSED UTILITY INTERRUPTIONS.
 - DO NOT PROCEED WITH UTILITY INTERRUPTIONS WITHOUT ARCHITECT'S WRITTEN PERMISSION.
- PROTECT EXISTING STRUCTURES AND OTHER ELEMENTS THAT ARE NOT TO BE REMOVED.

3.05 TOPSOIL STRIPPING

- REMOVE SOD AND GRASS BEFORE STRIPPING TOPSOIL.
- STRIP TOPSOIL TO WHATEVER DEPTHS ARE ENCOUNTERED IN A MANNER TO PREVENT INTERMINGLING WITH UNDERLYING SUBSOIL OR OTHER WASTE MATERIALS.
 - REMOVE SUBSOIL AND NON-SOIL MATERIALS FROM TOPSOIL, INCLUDING TRASH, DEBRIS, WEEDS, ROOTS, AND OTHER WASTE MATERIALS.
- STOCKPILE TOPSOIL MATERIALS AWAY FROM EDGE OF EXCAVATIONS WITHOUT INTERMINGLING WITH SUBSOIL. GRADE AND SHAPE STOCKPILES TO DRAIN SURFACE WATER. COVER TO PREVENT WINDBLOWN DUST.
 - LIMIT HEIGHT OF TOPSOIL STOCKPILES TO 120 INCHES.
 - DISPOSE OF EXCESS TOPSOIL AS SPECIFIED FOR WASTE MATERIAL DISPOSAL.
 - STOCKPILE SURPLUS TOPSOIL TO ALLOW FOR RE-SPREADING DEEPER TOPSOIL.

3.06 VEGETATION

- DO NOT REMOVE OR DAMAGE VEGETATION BEYOND THE LIMITS INDICATED ON DRAWINGS.
- IN AREAS WHERE VEGETATION MUST BE REMOVED BUT NO CONSTRUCTION WILL OCCUR OTHER THAN PEROUS PAVING, REMOVE VEGETATION WITH MINIMUM DISTURBANCE OF THE SUBSOIL.
- VEGETATION REMOVED: DO NOT BURN, BURY, LANDFILL, OR LEAVE ON SITE, EXCEPT AS INDICATED.
 - TREES: TREAT AS SPECIFIED FOR OTHER VEGETATION REMOVED; REMOVE STUMPS AND ROOTS TO DEPTH OF 18 INCHES (450 MM).
- RESTORATION: IF VEGETATION OUTSIDE REMOVAL LIMITS OR WITHIN SPECIFIED PROTECTIVE FENCES IS DAMAGED OR DESTROYED DUE TO SUBSEQUENT CONSTRUCTION OPERATIONS, REPLACE AT NO COST TO OWNER.

3.07 SITE IMPROVEMENTS

- REMOVE EXISTING ABOVE-GRADE AND BELOW-GRADE IMPROVEMENTS AS INDICATED AND AS NECESSARY TO FACILITATE NEW CONSTRUCTION. REFER TO PROJECT PLANS FOR IMPROVEMENTS TO BE ABANDONED IN PLACE.
- REMOVE SLABS, PAVING, CURBS, GUTTERS, AND AGGREGATE BASE AS INDICATED.
 - UNLESS EXISTING FULL-DEPTH JOINTS COINCIDE WITH LINE OF DEMOLITION, NEATLY SAW-CUT LENGTH OF EXISTING PAVEMENT TO REMAIN BEFORE REMOVING EXISTING PAVEMENT. SAW-CUT FACES VERTICALLY.
 - PAINT CUT ENDS OF STEEL REINFORCEMENT IN CONCRETE TO REMAIN TO PREVENT CORROSION.

3.08 DEBRIS

- REMOVE DEBRIS, JUNK, AND TRASH FROM SITE.
- LEAVE SITE IN CLEAN CONDITION, READY FOR SUBSEQUENT WORK.

- CLEAN UP SPILLAGE AND WIND-BLOWN DEBRIS FROM PUBLIC AND PRIVATE LANDS.

3.09 DISPOSAL

- REMOVE SURPLUS SOIL MATERIAL, UNSUITABLE TOPSOIL, OBSTRUCTIONS, DEMOLISHED MATERIALS, AND WASTE MATERIALS INCLUDING TRASH AND DEBRIS, AND LEGALLY DISPOSE OF THEM OFF OWNER'S PROPERTY.
 - SEPARATE RECYCLABLE MATERIALS PRODUCED DURING SITE CLEARING FROM OTHER NON-RECYCLABLE MATERIALS. STORE OR STOCKPILE WITHOUT INTERMINGLING WITH OTHER MATERIALS AND TRANSPORT THEM TO RECYCLING FACILITIES.

END OF SECTION

SECTION 31 2300
EARTHWORK

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

- DRAWINGS AND GENERAL PROVISIONS OF THE CONTRACT, INCLUDING GENERAL AND SUPPLEMENTARY CONDITIONS AND DIVISION 1 SPECIFICATION SECTIONS, APPLY TO THIS SECTION.

1.02 SUMMARY

- THIS SECTION INCLUDES THE FOLLOWING:
 - PREPARING SUBGRADES FOR SLABS-ON-GRADE, WALKS, PAVEMENTS, LAWNS, AND PLANTINGS.
 - EXCAVATING AND BACKFILLING FOR BUILDINGS AND STRUCTURES.
 - DRAINAGE COURSE FOR SLABS-ON-GRADE.
 - SUBBASE COURSE FOR CONCRETE WALKS AND PAVEMENTS.
 - BASE COURSE FOR ASPHALT PAVING.
 - SUBSURFACE DRAINAGE BACKFILL FOR WALLS AND TRENCHES.
- RELATED SECTIONS INCLUDE THE FOLLOWING:
 - DIVISION 2 SECTION 02 4119 "SELECTIVE SITE DEMOLITION" FOR TEMPORARY CONTROLS AND SITE STRIPPING, GRUBBING, REMOVING TOPSOIL, AND PROTECTING TREES TO REMAIN.

1.03 DEFINITIONS

- BACKFILL: SOIL MATERIALS USED TO FILL AN EXCAVATION.
 - INITIAL BACKFILL: BACKFILL PLACED BESIDE AND OVER PIPE IN A TRENCH, INCLUDING HAUNCHES TO SUPPORT SIDES OF PIPE.
 - FINAL BACKFILL: BACKFILL PLACED OVER INITIAL BACKFILL TO FILL A TRENCH.
- BASE COURSE: LAYER PLACED BETWEEN THE SUBBASE COURSE AND ASPHALT PAVING.
- BEDDING COURSE: LAYER PLACED OVER THE EXCAVATED SUBGRADE IN A TRENCH BEFORE LAYING PIPE.
- BORROW: SATISFACTORY SOIL IMPORTED FROM OFF-SITE FOR USE AS FILL OR BACKFILL.
- EXCAVATION: REMOVAL OF MATERIAL ENCOUNTERED ABOVE SUBGRADE ELEVATIONS.
 - BULK EXCAVATION: EXCAVATIONS MORE THAN 10 FEET (3 M) IN WIDTH AND PITS MORE THAN 30 FEET (9 M) IN EITHER LENGTH OR WIDTH.
 - UNAUTHORIZED EXCAVATION: EXCAVATION BELOW SUBGRADE ELEVATIONS OR BEYOND INDICATED DIMENSIONS WITHOUT DIRECTION BY ARCHITECT. UNAUTHORIZED EXCAVATION, AS WELL AS REMEDIAL WORK DIRECTED BY ARCHITECT, SHALL BE WITHOUT ADDITIONAL COMPENSATION.
- SOIL MATERIALS: USED TO RAISE EXISTING GRADES.
- STRUCTURES: BUILDINGS, FOOTINGS, FOUNDATIONS, RETAINING WALLS, SLABS, TANKS, CURBS, MECHANICAL AND ELECTRICAL APPURTENANCES, OR OTHER MAN-MADE STATIONARY FEATURES CONSTRUCTED ABOVE OR BELOW THE GROUND SURFACE.
- SUBBASE COURSE: LAYER PLACED BETWEEN THE SUBGRADE AND BASE COURSE FOR ASPHALT PAVING, OR LAYER PLACED BETWEEN THE SUBGRADE AND A CONCRETE PAVEMENT OR WALK.
- SUBGRADE: SURFACE OR ELEVATION REMAINING AFTER COMPLETING EXCAVATION, OR TOP SURFACE OF A FILL OR BACKFILL IMMEDIATELY BELOW SUBBASE, DRAINAGE FILL, OR TOPSOIL MATERIALS.
- UTILITIES: UTILITIES INCLUDE ON-SITE UNDERGROUND PIPES, CONDUITS, DUCTS, AND CABLES, AS WELL AS UNDERGROUND SERVICES WITHIN BUILDINGS.

1.04 SUBMITTALS

- MATERIAL TEST REPORTS: FROM A QUALIFIED TESTING AGENCY INDICATING AND INTERPRETING TEST RESULTS FOR COMPLIANCE OF THE FOLLOWING WITH REQUIREMENTS INDICATED:
 - CLASSIFICATION ACCORDING TO ASTM D 2487 OF EACH ON-SITE OR BORROW SOIL.
 - MATERIAL PROPOSED FOR FILL AND BACKFILL.
 - LABORATORY COMPACTION CURVE ACCORDING TO ASTM D 1557 FOR EACH ON-SITE OR BORROW SOIL MATERIAL PROPOSED FOR FILL AND BACKFILL.

1.05 PROJECT CONDITIONS

- NO ADDITIONAL MONIES FOR EXPORTING OR IMPORTING OF SOIL.
 - AS PART OF THE CONSTRUCTION DOCUMENTS, OWNER MAY HAVE PROVIDED CONTRACTOR WITH A TOPOGRAPHIC SURVEY PERFORMED BY MANUAL OR AERIAL MEANS. SUCH SURVEY WAS PREPARED FOR PROJECT DESIGN PURPOSES AND IS PROVIDED TO THE CONTRACTOR AS A COURTESY. IT IS EXPRESSLY UNDERSTOOD THAT SUCH SURVEY MAY NOT ACCURATELY REFLECT EXISTING TOPOGRAPHICAL CONDITIONS AND TYPICALLY WILL VARY FROM ACTUAL CONDITIONS BY A SIGNIFICANT DEGREE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ACTUAL EXISTING CONDITIONS BY WHATEVER MEANS THE CONTRACTOR DEEMS APPROPRIATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THEIR OWN EARTHWORK QUANTITIES AND NOT RELY ON ANY ESTIMATE PREPARED BY THE OWNER, ITS AGENTS OR OUTSIDE PARTIES. THE CONTRACTOR IS RESPONSIBLE AS PART OF ITS LUMP SUM BID PRICE FOR THE PROJECT, FOR IMPORTING OR EXPORTING SOILS TO ACHIEVE FINAL SUB-GRADES WITH SUITABLE SOILS PER THE PLANS AND SPECIFICATIONS. NO ADDITIONAL MONIES WILL BE ALLOWED BEYOND THE CONTRACTOR'S LUMP SUM BID PRICE FOR THE PROJECT, FOR THE EXPORTING OR IMPORTING OF SOILS.
- EXISTING UTILITIES: LOCATE EXISTING UNDERGROUND UTILITIES IN AREAS OF WORK. IF UTILITIES ARE TO REMAIN IN PLACE, PROVIDE ADEQUATE MEANS OF SUPPORT AND PROTECTION DURING EARTHWORK OPERATIONS.
 - SHOULD UNCHARTED, OR INCORRECTLY CHARTED, PIPING OR OTHER UTILITIES BE ENCOUNTERED DURING EXCAVATION, CONSULT UTILITY OWNER IMMEDIATELY FOR DIRECTIONS. COOPERATE WITH OWNER AND UTILITY COMPANIES IN KEEPING RESPECTIVE SERVICES AND FACILITIES IN OPERATION. REPAIR DAMAGED UTILITIES TO SATISFACTION OF UTILITY OWNER.
 - DO NOT INTERRUPT UTILITIES SERVING FACILITIES OCCUPIED BY OWNER OR OTHERS UNLESS PERMITTED IN WRITING BY ARCHITECT AND THEN ONLY AFTER ARRANGING TO PROVIDE TEMPORARY UTILITY SERVICES ACCORDING TO REQUIREMENTS INDICATED.
 - NOTIFY ARCHITECT NOT LESS THAN SEVEN (7) DAYS IN ADVANCE OF PROPOSED UTILITY INTERRUPTIONS.
 - DO NOT PROCEED WITH UTILITY INTERRUPTIONS WITHOUT ARCHITECT'S WRITTEN PERMISSION.
 - CONTACT UTILITY-LOCATOR SERVICE FOR AREA WHERE PROJECT IS LOCATED BEFORE EXCAVATING.
- PROTECTION OF PERSONS AND PROPERTY: BARRICADE OPEN EXCAVATIONS OCCURRING AS PART OF THIS WORK AND POST WITH WARNING LIGHTS.
 - OPERATE WARNING LIGHTS AS RECOMMENDED BY AUTHORITIES HAVING JURISDICTION.

PART 2 - PRODUCTS

2.01 SOIL MATERIALS

- GENERAL: PROVIDE BORROW SOIL MATERIALS WHEN SUFFICIENT SATISFACTORY SOIL MATERIALS ARE NOT AVAILABLE FROM EXCAVATIONS.
- SATISFACTORY SOILS: ASTM D 2487 SOIL CLASSIFICATION GROUPS GP, GW, GM, SW, SP, AND SM, OR A COMBINATION OF THESE GROUP SYMBOLS; FREE OF ROCK OR GRAVEL LARGER THAN 4 INCHES (100 MM) IN ANY DIMENSION, DEBRIS, WASTE, FROZEN MATERIALS, VEGETATION, AND OTHER DELETERIOUS MATTER.
- UNSATISFACTORY SOILS: ASTM D 2487 SOIL CLASSIFICATION GROUPS GC, SC, ML, MH, CL, CH, OL, OH, AND PT, OR A COMBINATION OF THESE GROUP SYMBOLS.
 - UNSATISFACTORY SOILS ALSO INCLUDE SATISFACTORY SOILS NOT MAINTAINED WITHIN 2 PERCENT OF OPTIMUM MOISTURE CONTENT AT TIME OF COMPACTION.
- BACKFILL AND FILL: SATISFACTORY SOIL MATERIALS.
- SUBBASE: NATURALLY OR ARTIFICIALLY WELL GRADED MIXTURE OF NATURAL OR CRUSHED GRAVEL, CRUSHED STONE, AND NATURAL OR CRUSHED SAND; ASTM D 2940; WITH AT LEAST 70 PERCENT PASSING A 3/4- INCH (18-MM) SIEVE AND NOT MORE THAN 25 PERCENT PASSING A NO. 200 (0.075-MM) SIEVE.
- BASE COURSE: NATURALLY OR ARTIFICIALLY GRADED MIXTURE OF NATURAL OR CRUSHED GRAVEL, CRUSHED STONE, AND NATURAL OR CRUSHED SAND; ASTM D 2940; CONFORMING TO THE 1 INCH GRADATION REQUIREMENTS OF SECTION 301 OF THE UDOT STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION.
- ENGINEERED FILL: NATURALLY OR ARTIFICIALLY GRADED MIXTURE OF NATURAL OR CRUSHED GRAVEL, CRUSHED STONE, AND NATURAL OR CRUSHED SAND; ASTM D 2940; WITH AT LEAST 70 PERCENT PASSING A 3/4-INCH (18-MM) SIEVE AND NOT MORE THAN 25

- PERCENT PASSING A NO. 200 (0.075-MM) SIEVE.

- BEDDING: NATURALLY OR ARTIFICIALLY GRADED MIXTURE OF NATURAL OR CRUSHED GRAVEL, CRUSHED STONE, AND NATURAL OR CRUSHED SAND; ASTM D 2940; EXCEPT WITH 100 PERCENT PASSING A 1-INCH (25-MM) SIEVE AND NOT MORE THAN 8 PERCENT PASSING A NO. 200 (0.075-MM) SIEVE.
- DRAINAGE FILL: WASHED, NARROWLY GRADED MIXTURE OF CRUSHED STONE, OR CRUSHED OR UNCRUSHED GRAVEL; ASTM D 448; COARSE-AGGREGATE GRADING SIZE 57; WITH 100 PERCENT PASSING A 1-1/2- INCH (38-MM) SIEVE AND 0 TO 5 PERCENT PASSING A NO. 8 (2.36-MM) SIEVE.
- FILTER MATERIAL: NARROWLY GRADED MIXTURE OF NATURAL OR CRUSHED GRAVEL, OR CRUSHED STONE AND NATURAL SAND; ASTM D 448; COARSE-AGGREGATE GRADING SIZE 67; WITH 100 PERCENT PASSING A 1-INCH (25-MM) SIEVE AND 0 TO 5 PERCENT PASSING A NO. 4 (4.75-MM) SIEVE.
- IMPERVIOUS FILL: CLAYEY GRAVEL AND SAND MIXTURE CAPABLE OF COMPACTING TO A DENSE STATE.

2.02 ACCESSORIES

- WARNING TAPE: ACID- AND ALKALI-RESISTANT POLYETHYLENE FILM WARNING TAPE MANUFACTURED FOR MARKING AND IDENTIFYING UNDERGROUND UTILITIES, 6 INCHES (150 MM) WIDE AND 4 MILS (0.1 MM) THICK, CONTINUOUSLY INSCRIBED WITH A DESCRIPTION OF THE UTILITY, COLORED AS FOLLOWS:
 - DETECTABLE WARNING TAPE: ACID- AND ALKALI-RESISTANT POLYETHYLENE FILM WARNING TAPE MANUFACTURED FOR MARKING AND IDENTIFYING UNDERGROUND UTILITIES, MINIMUM 6 INCHES (150 MM) WIDE AND 4 MILS (0.1 MM) THICK, CONTINUOUSLY INSCRIBED WITH A DESCRIPTION OF UTILITY, WITH METALLIC CORE ENCASED IN A PROTECTIVE JACKET FOR CORROSION PROTECTION, DETECTABLE BY METAL DETECTOR WHEN TEST IS BURIED UP TO 30 INCHES (750 MM) DEEP; COLORED AS FOLLOWS:
 - RED: ELECTRIC.
 - YELLOW: GAS, OIL, STEAM, AND DANGEROUS MATERIALS.
 - ORANGE: TELEPHONE AND OTHER COMMUNICATIONS.
 - BLUE: WATER SYSTEMS.
 - GREEN: SEWER SYSTEMS.
 - TRACE WIRE: INSULATED 10 GAGE COPPER, SUITABLE FOR DIRECT BURY.

PART 3 - EXECUTION

3.01 PREPARATION

- PROTECT STRUCTURES, UTILITIES, SIDEWALKS, PAVEMENTS, AND OTHER FACILITIES FROM DAMAGE CAUSED BY SETTLEMENT, LATERAL MOVEMENT, UNDERMINING, WASHOUT, AND OTHER HAZARDS CREATED BY EARTHWORK OPERATIONS.
- PROTECT SUBGRADES AND FOUNDATION SOILS AGAINST FREEZING TEMPERATURES OR FROST. PROVIDE PROTECTIVE INSULATING MATERIALS AS NECESSARY.
- PROVIDE EROSION-CONTROL MEASURES TO PREVENT EROSION OR DISPLACEMENT OF SOILS AND DISCHARGE OF SOIL-BEARING WATER RUNOFF OR AIRBORNE DUST TO ADJACENT PROPERTIES AND WALKWAYS.

3.02 DEWATERING

- PREVENT SURFACE WATER AND GROUND WATER FROM ENTERING EXCAVATIONS, FROM PONDING ON PREPARED SUBGRADES, AND FROM FLOODING PROJECT SITE AND SURROUNDING AREA.
- PROTECT SUBGRADES FROM SOFTENING, UNDERMINING, WASHOUT, AND DAMAGE BY RAIN OR WATER ACCUMULATION.
 - REROUTE SURFACE WATER RUNOFF AWAY FROM EXCAVATED AREAS. DO NOT ALLOW WATER TO ACCUMULATE IN EXCAVATIONS. DO NOT USE EXCAVATED TRENCHES AS TEMPORARY DRAINAGE DITCHES.
 - INSTALL A DEWATERING SYSTEM TO KEEP SUBGRADES DRY AND CONVEY GROUND WATER AWAY FROM EXCAVATIONS. MAINTAIN UNTIL DEWATERING IS NO LONGER REQUIRED.

3.03 EXCAVATIONS - NOT ALLOWED

3.04 EXCAVATION, GENERAL

- UNCLASSIFIED EXCAVATION: EXCAVATION TO SUBGRADE ELEVATIONS REGARDLESS OF THE CHARACTER OF SURFACE AND SUBSURFACE CONDITIONS ENCOUNTERED, INCLUDING ROCK, SOIL MATERIALS, AND OBSTRUCTIONS.
 - IF EXCAVATED MATERIALS INTENDED FOR FILL AND BACKFILL INCLUDE UNSATISFACTORY SOIL MATERIALS AND ROCK, REPLACE WITH SATISFACTORY SOIL MATERIALS.

3.05 EXCAVATION FOR WALKS AND PAVEMENTS

- EXCAVATE SURFACES UNDER WALKS AND PAVEMENTS TO INDICATED CROSS SECTIONS, ELEVATIONS, AND GRADES.

3.06 APPROVAL OF SUBGRADE

- NOTIFY ARCHITECT WHEN EXCAVATIONS HAVE REACHED REQUIRED SUBGRADE.
- IF ARCHITECT DETERMINES THAT UNSATISFACTORY SOIL IS PRESENT, CONTINUE EXCAVATION AND REPLACE WITH COMPACTED BACKFILL OR FILL MATERIAL AS DIRECTED.
- PROOF ROLL SUBGRADE WITH HEAVY PNEUMATIC-TIRED EQUIPMENT TO IDENTIFY SOFT POCKETS AND AREAS OF EXCESS YIELDING. DO NOT PROOF ROLL WET OR SATURATED SUBGRADES.
- RECONSTRUCT SUBGRADES DAMAGED BY FREEZING TEMPERATURES, FROST, RAIN, ACCUMULATED WATER, OR CONSTRUCTION ACTIVITIES, AS DIRECTED BY ARCHITECT.

3.07 UNAUTHORIZED EXCAVATION

- FILL UNAUTHORIZED EXCAVATION UNDER FOUNDATIONS OR WALL FOOTINGS BY EXTENDING BACKFILL EXCAVATION OR CONCRETE FOUNDATION OR FOOTING TO EXCAVATION BOTTOM, WITHOUT ALTERING TOP ELEVATION. LEAN CONCRETE FILL MAY BE USED WHEN APPROVED BY ARCHITECT.
 - FILL UNAUTHORIZED EXCAVATIONS UNDER OTHER CONSTRUCTION OR UTILITY PIPE AS DIRECTED BY ARCHITECT.

3.08 STORAGE OF SOIL MATERIALS

- STOCKPILE BORROW MATERIALS AND SATISFACTORY EXCAVATED SOIL MATERIALS. STOCKPILE SOIL MATERIALS WITHOUT INTERMINGLING. PLACE, GRADE, AND SHAPE STOCKPILES TO DRAIN SURFACE WATER. COVER TO PREVENT WINDBLOWN DUST.
 - STOCKPILE SOIL MATERIALS AWAY FROM EDGE OF EXCAVATIONS. DO NOT STORE WITHIN DRIP LINE OF REMAINING TREES.

3.09 BACKFILL

- PLACE AND COMPACT BACKFILL IN EXCAVATIONS PROMPTLY, BUT NOT BEFORE COMPLETING THE FOLLOWING:
 - CONSTRUCTION BELOW FINISH GRADE INCLUDING, WHERE APPLICABLE, DAMPPROOFING, WATERPROOFING, AND PERIMETER INSULATION.
 - SURVEYING LOCATIONS OF UNDERGROUND UTILITIES FOR RECORD DOCUMENTS.
 - INSPECTING AND TESTING UNDERGROUND UTILITIES.
 - REMOVING CONCRETE FORMWORK.
 - REMOVING TRASH AND DEBRIS.
 - REMOVING TEMPORARY SHORING AND BRACING, AND SHEETING.
 - INSTALLING PERMANENT OR TEMPORARY HORIZONTAL BRACING ON HORIZONTALLY SUPPORTED WALLS.

3.10 FILL

- PREPARATION: REMOVE VEGETATION, TOPSOIL, DEBRIS, UNSATISFACTORY SOIL MATERIALS, OBSTRUCTIONS, AND DELETERIOUS MATERIALS FROM GROUND SURFACE BEFORE PLACING FILLS.
- PLOW, SCARIFY, BENCH, OR BREAK UP SLOPED SURFACES STEEPER THAN 1 VERTICAL TO 4 HORIZONTAL SO FILL MATERIAL WILL BOND WITH EXISTING MATERIAL.
- PLACE AND COMPACT FILL MATERIAL IN LAYERS TO REQUIRED ELEVATIONS AS FOLLOWS:
 - UNDER GRASS AND PLANTED AREAS, USE SATISFACTORY SOIL MATERIAL.
 - UNDER WALKS AND PAVEMENTS, USE SATISFACTORY SOIL MATERIAL.

3.11 MOISTURE CONTROL

- UNIFORMLY MOISTEN OR AERATE SUBGRADE AND EACH SUBSEQUENT FILL OR BACKFILL LAYER BEFORE COMPACTION TO WITHIN 2 PERCENT OF OPTIMUM MOISTURE CONTENT.
 - DO NOT PLACE BACKFILL OR FILL MATERIAL ON SURFACES THAT ARE MUDDY, FROZEN, OR CONTAIN FROST OR ICE.
 - REMOVE AND REPLACE, OR SCARIFY AND AIR-DRY, OTHERWISE SATISFACTORY SOIL MATERIAL, THAT EXCEEDS OPTIMUM MOISTURE CONTENT BY 2 PERCENT AND IS TOO WET TO COMPACT TO SPECIFIED DRY UNIT WEIGHT.

3.12 COMPACTION OF BACKFILLS AND FILLS

- PLACE BACKFILL AND FILL MATERIALS IN LAYERS NOT MORE THAN 8 INCHES (200 MM) IN LOOSE DEPTH FOR MATERIALS COMPACTED BY HEAVY COMPACTION EQUIPMENT, AND NOT MORE THAN 4 INCHES (100 MM) IN LOOSE DEPTH FOR MATERIAL COMPACTED BY HAND-OPERATED TAMPERS.
- PLACE BACKFILL AND FILL MATERIALS EVENLY ON ALL SIDES OF STRUCTURES TO REQUIRED ELEVATIONS, AND UNIFORMLY ALONG THE FULL LENGTH OF EACH STRUCTURE.
- COMPACT SOIL TO NOT LESS THAN THE FOLLOWING PERCENTAGES OF MAXIMUM DRY UNIT WEIGHT ACCORDING TO ASTM D 1557:
 - UNDER STRUCTURES, BUILDING SLABS, STEPS, AND PAVEMENTS, SCARIFY AND RECOMPACT TOP 6 INCHES (150 MM) OF EXISTING SUBGRADE AND EACH LAYER OF BACKFILL OR FILL MATERIAL AT 95 PERCENT. COMPACT TO 98 PERCENT FOR FILLS THICKER THAN 6 FEET DEEP.
 - UNDER WALKWAYS, SCARIFY AND RECOMPACT TOP 6 INCHES (150 MM) BELOW

- SUBGRADE AND COMPACT EACH LAYER OF BACKFILL OR FILL MATERIAL AT 95 PERCENT.

- UNDER LAWN OR UNPAVED AREAS, SCARIFY AND RECOMPACT TOP 6 INCHES (150 MM) BELOW SUBGRADE AND COMPACT EACH LAYER OF BACKFILL OR FILL MATERIAL AT 90 PERCENT.

3.13 GRADING

- GENERAL: UNIFORMLY GRADE AREAS TO A SMOOTH SURFACE, FREE FROM IRREGULAR SURFACE CHANGES. COMPLY WITH COMPACTION REQUIREMENTS AND GRADE TO CROSS SECTIONS, LINES, AND ELEVATIONS INDICATED.
 - PROVIDE A SMOOTH TRANSITION BETWEEN ADJACENT EXISTING GRADES AND NEW GRADES.
 - CUT OUT SOFT SPOTS, FILL LOW SPOTS, AND TRIM HIGH SPOTS TO COMPLY WITH REQUIRED SURFACE TOLERANCES.
- SITE GRADING: SLOPE GRADES TO DIRECT WATER AWAY FROM BUILDINGS AND TO PREVENT PONDING. FINISH SUBGRADES TO REQUIRED ELEVATIONS WITHIN THE FOLLOWING TOLERANCES:
 - LAWN OR UNPAVED AREAS: PLUS OR MINUS 0.2 FT (25 MM).
 - WALKS: PLUS OR MINUS 0.1 FT (13 MM).
 - PAVEMENTS: PLUS OR MINUS 0.1 FT (13 MM).

3.14 SUBBASE AND BASE COURSES

- UNDER PAVEMENTS AND WALKS, PLACE SUBBASE COURSE ON PREPARED SUBGRADE AND AS FOLLOWS:
 - PLACE BASE COURSE MATERIAL OVER SUBBASE.
 - COMPACT SUBBASE AND BASE COURSES AT OPTIMUM MOISTURE CONTENT TO REQUIRED GRADES, LINES, CROSS SECTIONS, AND THICKNESS TO NOT LESS THAN 95 PERCENT OF MAXIMUM DRY UNIT WEIGHT ACCORDING TO ASTM D 1557.
 - SHAPE SUBBASE AND BASE TO REQUIRED CROWN ELEVATIONS AND CROSS-SLOPE GRADES.
 - WHEN THICKNESS OF COMPACTED SUBBASE OR BASE COURSE IS 6 INCHES (150 MM) OR LESS, PLACE MATERIALS IN A SINGLE LAYER.
 - WHEN THICKNESS OF COMPACTED SUBBASE OR BASE COURSE EXCEEDS 6 INCHES (150 MM), PLACE MATERIALS IN EQUAL LAYERS, WITH NO LAYER MORE THAN 6 INCHES (150 MM) THICK OR LESS THAN 3 INCHES (75 MM) THICK WHEN COMPACTED.
 - PAVEMENT SHOULDERS: PLACE SHOULDERS ALONG EDGES OF SUBBASE AND BASE COURSE TO PREVENT LATERAL MOVEMENT. CONSTRUCT SHOULDERS, AT LEAST 12 INCHES (300 MM) WIDE, OF SATISFACTORY SOIL MATERIALS AND COMPACT SIMULTANEOUSLY WITH EACH SUBBASE AND BASE LAYER TO NOT LESS THAN 95 PERCENT OF MAXIMUM DRY UNIT WEIGHT ACCORDING TO ASTM D 1557.

3.15 FIELD QUALITY CONTROL

- TESTING AGENCY: OWNER WILL ENGAGE A QUALIFIED INDEPENDENT GEOTECHNICAL ENGINEERING TESTING AGENCY TO PERFORM FIELD QUALITY-CONTROL TESTING.
- ALLOW TESTING AGENCY TO INSPECT AND TEST SUBGRADES AND EACH FILL OR BACKFILL LAYER. PROCEED WITH SUBSEQUENT EARTHWORK ONLY AFTER TEST RESULTS FOR PREVIOUSLY COMPLETED WORK COMPLY WITH REQUIREMENTS.
- TESTING AGENCY WILL TEST COMPACTION OF SOILS IN PLACE ACCORDING TO ASTM D 1556, ASTM D 2167, ASTM D 2922, AND ASTM D 2937, AS APPLICABLE. TESTS WILL BE PERFORMED AT THE FOLLOWING LOCATIONS AND FREQUENCIES:
 - SPOT FOOTINGS: MINIMUM OF 1 COMPACTION TEST FOR EACH LIFT FOR EACH SPOT FOOTING.
 - SIDEWALKS, CURBS, GUTTERS, PADS: MINIMUM OF 1 TEST FOR EACH LIFT FOR EACH 40 LINEAL FEET OR 1 TEST FOR EVERY 1000 SQ. FT. OR LESS OF PAVED AREA OR BUILDING SLAB, BUT IN NO CASE FEWER THAN THREE TESTS.
- WHEN SETTLING AGENCY REPORTS THAT SUBGRADES, FILLS, OR BACKFILLS HAVE NOT ACHIEVED DEGREE OF COMPACTION SPECIFIED, SCARIFY AND MOISTEN OR AERATE, OR REMOVE AND REPLACE SOIL TO DEPTH REQUIRED; RECOMPACT AND RETEST UNTIL SPECIFIED COMPACTION IS OBTAINED.

3.16 PROTECTION

- PROTECTING GRADED AREAS: PROTECT NEWLY GRADED AREAS FROM TRAFFIC, FREEZING, AND EROSION. KEEP FREE OF TRASH AND DEBRIS.
- REPAIR AND REESTABLISH GRADES TO SPECIFIED TOLERANCES WHERE COMPLETED OR PARTIALLY COMPLETED SURFACES BECOME ERODED, RUTTED, SETTLED, OR WHERE THEY LOSE COMPACTION DUE TO SUBSEQUENT CONSTRUCTION OPERATIONS OR WEATHER CONDITIONS.
 - SCARIFY OR REMOVE AND REPLACE SOIL MATERIAL TO DEPTH AS DIRECTED BY ARCHITECT; RESHAPE AND RECOMPACT.
- WHERE SETTLING OCCURS BEFORE PROJECT CORRECTION PERIOD ELAPSES, REMOVE FINISHED SURFACING, BACKFILL WITH ADDITIONAL SOIL MATERIAL, COMPACT, AND RECONSTRUCT SURFACING.
 - RESTORE APPEARANCE, QUALITY, AND CONDITION OF FINISHED SURFACING TO MATCH ADJACENT WORK, AND ELIMINATE EVIDENCE OF RESTORATION TO THE GREATEST EXTENT POSSIBLE.

3.17 DISPOSAL OF SURPLUS AND WASTE MATERIALS

- DISPOSAL: REMOVE SURPLUS SATISFACTORY SOIL AND WASTE MATERIAL, INCLUDING UNSATISFACTORY SOIL, TRASH, AND DEBRIS, AND LEGALLY DISPOSE OF IT OFF OWNER'S PROPERTY.

END OF SECTION

SECTION 32 1313
CONCRETE PAVING

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

- DRAWINGS AND GENERAL PROVISIONS OF THE CONTRACT, INCLUDING GENERAL AND SUPPLEMENTARY CONDITIONS AND DIVISION 01 SPECIFICATION SECTIONS, APPLY TO THIS SECTION.

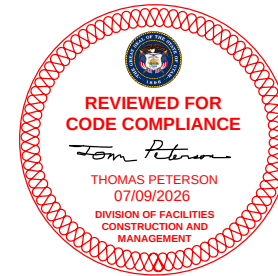
1.02 SUMMARY

- SECTION INCLUDES:
 - CURBS AND GUTTERS.
 - WALKS.

1.03 DEFINITIONS

- CEMENTITIOUS MATERIALS: PORTLAND CEMENT ALONE OR IN COMBINATION WITH ONE OR MORE OF BLENDED HYDRAULIC CEMENT, FLY ASH AND OTHER POZZOLANS, AND GROUND GRANULATED BLAST-FURNACE SLAG.

1.04 ACTION SUBMITTALS



PERRY REST AREA - LANDSCAPE IMPROVEMENTS

PERRY, UTAH 84302
UTAH DEPARTMENT OF TRANSPORTATION

[illegible]

PROJECT #: 824308

DRAWN BY: K. ALTHOUSE

CHECKED BY: B. WRIGHT

ISSUED: 06.26.2026



DEMOLITION PLAN

C-100

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SYMBOL	DESCRIPTION	QTY
<u>BID ALTERNATE 1</u>		
	CONCRETE MOWSTRIP - 6" wide X 6" deep	609 lf
<u>DEMOLITION</u>		
	REMOVE TREE STUMP - grind down 18" below finish grade and place topsoil on top	
	RELOCATE PET AREA SIGN - remove and store, to be installed per site plan	
	REMOVE TREE - grind down stump 18" below finish grade and place topsoil on top	
	SAWCUT AND REMOVE CURB	
	REMOVE BROKEN CONCRETE - sawcut concrete around box to create clean line for new concrete	
	REMOVE METAL GARBAGE CAN SUPPORT STAND	
	SEE IRRIGATION PLAN FOR DEMOLITION INSTRUCTION OF EXISTING SYSTEM	
	SAWCUT CLEAN EDGE AND REMOVE BROKEN CONCRETE	
	REMOVE TURF GRASS AND SALVAGE IRRIGATION - clear and grub; return all unused valves, intact valve boxes, and sprinkler heads to owner	44,850 sf
	EXISTING TURF GRASS AND IRRIGATION - preserve and protect	14,738 sf

LOCATE VALVES FOR POLLINATOR GARDEN
ENSURE THEY REMAIN ACTIVE DURING
CONSTRUCTION AND CONNECTED TO
CONTROLLER & WATER SOURCE

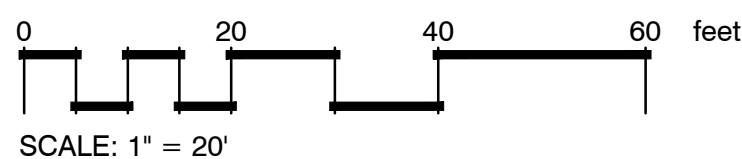
- KEEP EXISTING ROTORS ALONG SOUTH SIDE OF TURF AREA IN PLACE, ENSURE THEY ARE CONNECTED TO CONTROLLER

KEEP EXISTING ROTORS ALONG WEST SIDE
OF TURF AREA IN PLACE, ENSURE THEY ARE
CONNECTED TO CONTROLLER

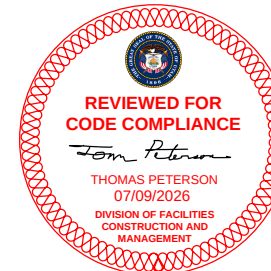
1. REMOVE OBSTRUCTIONS, GRASS, AND OTHER VEGETATION TO PERMIT INSTALLATION OF NEW CONSTRUCTION.
2. CUT MINOR ROOTS AND BRANCHES OF TREES IDENTIFIED TO REMAIN IN A CLEAN AND CAREFUL MANNER WHERE SUCH ROOTS AND BRANCHES OBSTRUCT INSTALLATION OF NEW CONSTRUCTION.
3. GRIND STUMPS AND REMOVE ROOTS, OBSTRUCTIONS, AND DEBRIS EXTENDING TO A DEPTH OF 24 INCHES BELOW EXPOSED SUBGRADE.
4. FILL DEPRESSIONS CAUSED BY CLEARING AND GRUBBING OPERATIONS WITH SATISFACTORY SOIL MATERIALS IN HORIZONTAL LAYERS NOT EXCEEDING 8-INCH LOOSE DEPTH, AND COMPACT EACH LAYER TO A DENSITY EQUAL TO ADJACENT GROUND.
5. STRIP SUITABLE TOPSOIL TO WHATEVER DEPTHS ARE ENCOUNTERED IN A MANNER TO PREVENT INTERMINGLING WITH UNDERLYING SUBSOIL OR OTHER WASTE MATERIALS.
6. STOCKPILE SURPLUS TOPSOIL MATERIALS AWAY FROM EDGE OF EXCAVATIONS WITHOUT INTERMINGLING WITH SUBSOIL, GROUND AND SHAPE STOCKPILES TO DRAIN SURFACE WATER. COORDINATE STOCKPILE WINDROW LOCATIONS WITH ADJACENT PROPERTY OWNERS REPRESENTATIVE OR AT LOCATION SHOWN ON PLANS.
7. REMOVE EXISTING ABOVE- AND BELOW-GRADE STRUCTURES AS INDICATED AND AS NECESSARY TO FACILITATE NEW CONSTRUCTION.
8. PROTECT EXISTING BUILDINGS, WALLS, DRIVES, CURBS, EXISTING VEGETATION, ETC. THAT ARE TO REMAIN. REPAIR ANY DAMAGES THAT MAY OCCUR TO EXISTING ITEMS TO BE PROTECTED.
9. ALL ITEMS TO BE REMOVED FROM THE PROJECT AND EXCESS MATERIALS SHALL BE LEGALLY DUMPED OFFSITE BY THE CONTRACTOR.
10. CONTINUOUSLY CLEAN-UP AND REMOVE WASTE MATERIALS FROM SITE. DO NOT ALLOW MATERIALS TO ACCUMULATE ON SITE.
11. DO NOT BURN OR BURY MATERIALS ON SITE. LEAVE SITE IN CLEAN CONDITION.
12. FINISH GRADE AFTER CLEARING NEEDS TO BE 4 INCHES BELOW ADJACENT SIDEWALK.

1. ALL EXISTING TREES TO REMAIN SHALL BE PROPERLY PROTECTED DURING CONSTRUCTION. THE TREE'S CRITICAL ROOT ZONE SHALL BE AT TREE'S CANOPY DROP LINE OR A RADIUS OF TWELVE-TIMES THE DIAMETER OF THE TRUNK AT 4.5-FOOT DBH (DIAMETER AT BREAST HEIGHT) WHICHEVER IS LARGER.
2. IN THE CRITICAL ROOT ZONE:
 - A. DO NOT ALTER OR DISTURB EXISTING GRADE.
 - B. DO NOT STORE ANY CONSTRUCTION MATERIALS, EQUIPMENT, SOIL OR DEBRIS.
 - C. DO NOT DISPOSE OF ANY LIQUIDS E.G. CONCRETE, GAS, OIL, PAINT ETC.
 - D. DO NOT PERMIT VEHICLES, EQUIPMENT, OR FOOT TRAFFIC
 - E. AVOID TRENCHING.
 - F. AVOID CONSTRUCTION ACTIVITY THAT WILL COMPACT THE SOIL.
3. IF CONSTRUCTION WORK DOES ENCROACH INTO THE CRITICAL ROOT ZONE THEN LIMIT ENCROACHMENT TO LESS THAN TWENTY-FIVE PERCENT OF THE TOTAL AREA, AND NO CLOSER TO THE TRUNK THAN ONE-HALF THE RADIUS OF THE CRITICAL ROOT ZONE. PROVIDE FIVE INCHES OF MULCH AND A PROTECTIVE MAT OVER THE IMPACTED ROOT AREA.
5. IF TRENCHING IS REQUIRED IN THE ROOT AREA, THEN BORE UNDER THE ROOTING AREA AT A MINIMUM DEPTH OF THIRTY-INCHES; IF A TRENCH FOR AN IRRIGATION HEAD IS NEEDED IN THE ROOT ZONE AREA, TRENCH IN A DIRECT LINE TOWARDS THE TRUNK TO MINIMIZE ROOT DAMAGE.
6. PROVIDE WATER TO THE TREE(S) DURING CONSTRUCTION TO MAINTAIN TREE HEALTH.
7. REPAIR OR REPLACE TREES AND VEGETATION INDICATED TO REMAIN THAT ARE DAMAGED BY CONSTRUCTION OPERATIONS, IN A MANNER APPROVED BY LANDSCAPE ARCHITECT.
8.
 - A. SUBMIT DETAILS OF PROPOSED REPAIRS TO DAMAGED TREES AND SHRUBS.
 - B. REPLACE TREES THAT CANNOT BE REPAIRED AND RESTORED TO FULL-GROWTH STATUS, AS DETERMINED BY A QUALIFIED ARBORIST.

1. THE CONTRACTOR SHALL OBTAIN AND USE RECORD DRAWINGS IN THE DEMOLITION AND RECONFIGURATION OF THE IRRIGATION SYSTEM. IF RECORD DRAWINGS ARE NOT AVAILABLE, COORDINATE WITH AND OBTAIN INFORMATION FROM THE GROUNDS PERSONNEL, RUN AND TEST ENTIRE SYSTEM AND COORDINATE WITH ARCHITECT ON WHICH ZONES AND VALVES TO BE REMOVED.
2. COORDINATE THE REMOVAL OF IRRIGATION SYSTEM WITH ALL OTHER SITE DEMOLITION ACTIVITIES.
3. FIELD LOCATE THE LOCATION OF IRRIGATION EQUIPMENT SHOWN ON PLAN WITH INSTALLED EQUIPMENT IN THE FIELD. MAKE ADJUSTMENTS TO PLAN AS NECESSARY TO CREATE A FUNCTIONAL SYSTEM. RECORD ANY CHANGES FROM PROPOSED PLAN FOR INCLUSION IN AS-BUILT.
3. FIELD LOCATE THE IRRIGATION MAIN AND LATERAL LINES. CUT AND CAP MAIN LINES AND LATERAL LINES AS REQUIRED. MARK THE LOCATION OF THE CUT MAINLINES AND LATERAL LINES IN THE FIELD AND ON PLANS FOR FUTURE RECONFIGURATION.
4. SALVAGE ALL IRRIGATION REMOTE CONTROL VALVES, SPRAY HEADS, ISOLATION VALVE, MANUAL DRAINS, ETC. AND RETURN THEM TO THE OWNER FOR FUTURE RECONFIGURATION AS NECESSARY.
5. CUT IRRIGATION WIRES AT EDGE OF THE DEMOLITION AND PLACE THEM IN A 10" ROUND SPLICE BOX. RECORD THE LOCATION OF THE SPLICE BOX FOR FUTURE RECONNECTIONS TO THE CONTROLLER.



BID SET

PERRY REST AREA - LANDSCAPE
IMPROVEMENTS
NORTHBOUND I-15
PERRY, UTAH 84302
UTAH DEPARTMENT OF TRANSPORTATION

MARK

DATE

PROJECT #:

824308

DRAWN BY:

K. ALTHOUSE

CHECKED BY:

B. WRIGHT

ISSUED:

06.26.2026



SITE PLAN

C-101

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GENERAL NOTES

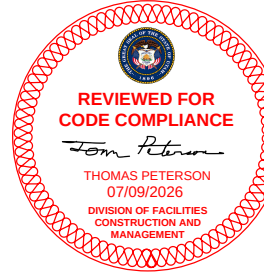
1. THE CONTRACTOR SHALL INSPECT THE SITE TO BE FULLY AWARE OF ALL PERTINENT EXISTING CONDITIONS PRIOR TO SUBMITTING BID OR PROPOSAL.
2. PRIOR TO BEGINNING CONSTRUCTION, CONTRACTOR SHALL MEET WITH THE OWNER'S REPRESENTATIVE TO DETERMINE METHOD OF MAINTAINING PUBLIC ACCESS TO THE BUILDING DURING CONSTRUCTION. CONTRACTOR SHALL MAINTAIN APPROVED ACCESS TO THE BUILDING THROUGHOUT THE DURATION OF CONSTRUCTION AND SHALL PROVIDE ALL TEMPORARY RAMPS, BARRIERS, ETC. AS REQUIRED TO MAINTAIN PUBLIC SAFETY.
3. PRIOR TO THE COMMENCEMENT OF ANY WORK, THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES THAT MAY BE AFFECTED BY HIS WORK. THE CONTRACTOR SHALL PROTECT THOSE UTILITIES THAT ARE TO REMAIN AND BE RESPONSIBLE FOR THE REPAIR OF DAMAGES TO SUCH UTILITIES.
4. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES WHEN CONSTRUCTION WORK BEGINS NEAR ANY UTILITY LINES AND ARRANGE FOR A UTILITY REPRESENTATIVE TO BE PRESENT IF THE CONTRACTOR'S CLOSE OPERATIONS COULD CREATE A HAZARDOUS CONDITION.
5. THE CONTRACTOR SHALL PROTECT EXISTING BUILDINGS, WALKS, DRIVES, CURBS, ETC. THAT ARE TO REMAIN AND SHALL REPAIR ANY DAMAGE THAT MAY RESULT FROM THE WORK.
6. THE LANDSCAPE AND IRRIGATION CONTRACTORS SHALL COORDINATE THEIR WORK WITH ANY OTHER CONTRACTORS AND TRADES WORKING ON THIS PROJECT. PROVIDE SLEEVES AS REQUIRED FOR DRAINAGE, IRRIGATION AND ELECTRICAL LINES, ETC. PRIOR TO PAVING AND LANDSCAPE WORK.
7. THE CONTRACTOR HAS THE RESPONSIBILITY OF VERIFYING ALL GRADES, ELEVATIONS, DIMENSIONS, MEASUREMENTS, CORNERS, CURBS AND ANGLES FOR WORK TO BE PERFORMED WITHIN THIS CONTRACT. REPORT ANY DISCREPANCIES BETWEEN PLANS AND ACTUAL CONDITION TO THE OWNER'S REPRESENTATIVE IMMEDIATELY.
8. THE CONTRACTOR IS RESPONSIBLE FOR ANY UNAUTHORIZED DAMAGE INSIDE AND OUTSIDE THE LIMIT OF WORK LINE DUE TO CONSTRUCTION OPERATIONS AND SHALL RESTORE DAMAGED AREAS TO ORIGINAL CONDITION AT NO COST.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR YARD AND BUILDING CLEANUP AT THE COMPLETION OF WORK.

LEGEND

SYMBOL	DESCRIPTION	QTY	DETAIL
1	REPLACE CONCRETE AROUND EXISTING CATCH BASIN - sawcut and make new joint, dowel into existing storm drain box, replace grate after concrete has set.		
2	CONCRETE MOWSTRIP - 6" wide X 6" deep		B2/C-501
3	DOG PARK FENCE - 4'-0" tall, black vinyl coated chainlink		A1/C-501
4	GATE - 3'-0" wide x 4'-0" tall, black vinyl coated chainlink		A3/C-501
5	PARKING LOT ISLAND ACCESS		B3/C-501
6	BENCH - 6'-0" long with concrete pad underneath and 2'-0" in front of bench		A4/C-501
7	PET WASTE STATION - install per manufacturer's recommendation, surface mounted to concrete		
8	STRAIGHTEN GRILL & CONCRETE BASE		
9	RELOCATED DOG PARK SIGN - secure to fence at this location		
10	RELOCATE EXISTING GARBAGE CANS TO THIS LOCATION OUTSIDE DOG PARK FENCE		
11	CONCRETE MOWSTRIP - 12" wide X 6" deep beneath dog park fence		A5/C-501
d	CONCRETE FLATWORK - 4" depth in dog park, 5" depth in parking lot	1,001 sf	B4/C-501
[Cross-hatch pattern]	SYNTHETIC PET TURF	1,575 sf	A5/C-501

0 20 40 60 feet
SCALE: 1" = 20'

BID SET

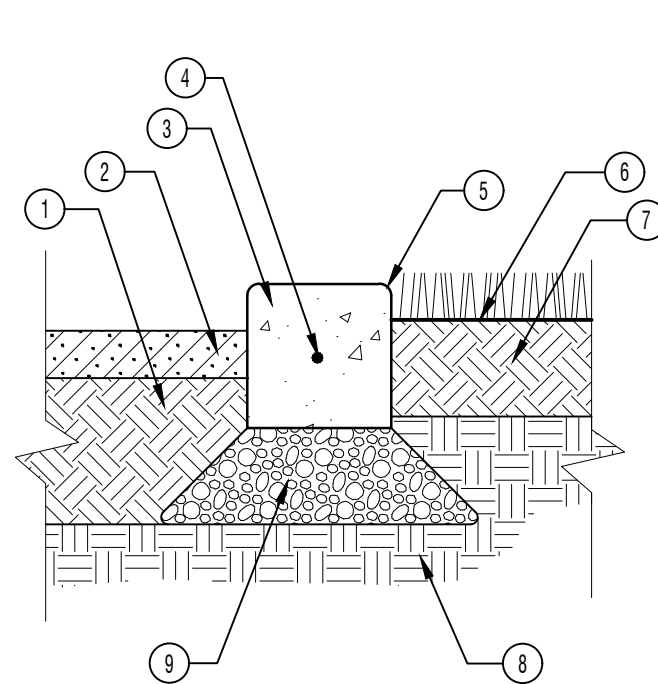
PERRY REST AREA - LANDSCAPE
IMPROVEMENTS
NORTHBOUND I-15
PERRY, UTAH 84302
UTAH DEPARTMENT OF TRANSPORTATION

MARK: DESCRIPTION:

DATE:

PROJECT #: 824308
DRAWN BY: K. ALTHOUSE
CHECKED BY: B. WRIGHT
ISSUED: 06.26.2026

BID SET



- 1 SPECIFIED TOPSOIL MIX
- 2 PLANTER BED, SEE PLANS FOR MATERIAL
- 3 6" SQUARE CONCRETE MOWSTRIP
- 4 #3 REINFORCING BAR CONT. (OVERLAP 12" AT SPLICES)
- 5 1/2" RADIUS TROWELED EDGE
- 6 FINISH GRADE 1-1/2" BELOW TOP OF MOWSTRIP FOR SOD, 1" FOR SEED
- 7 TOP SOIL
- 8 UNDISTURBED OR COMPACTED SUBGRADE
- 9 6" COMPACTED AGGREGATE BASE

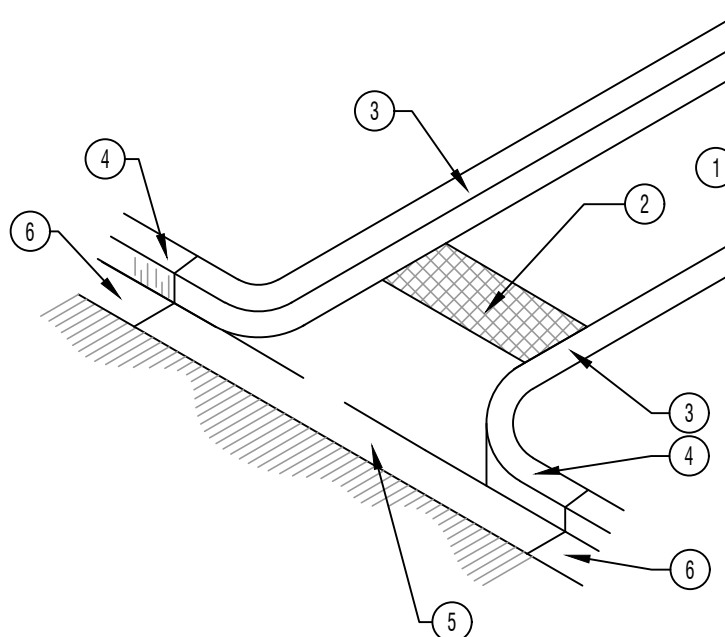
NOTE: PROVIDE CONSTRUCTION OR CONTROL JOINTS AT 5' O.C. MAX.

B2

CONCRETE MOWSTRIP - 6"

1 1/2" = 1'-0"

P-8-DFC-PERR-04



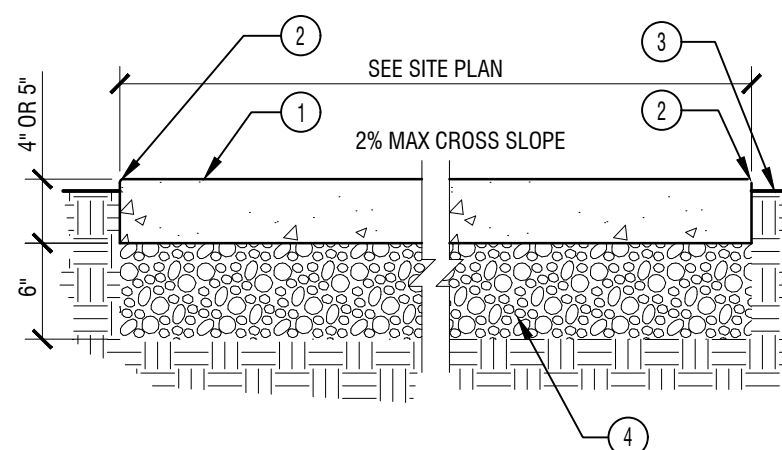
- 1 SIDEWALK, ROUGH BROOM FINISH
- 2 DETECTABLE WARNING SURFACE
- 3 NEW CURB
- 4 EXISTING CURB
- 5 NEW CONCRETE GUTTER
- 6 EXISTING CONCRETE GUTTER

B3

ACCESS THROUGH PARKING LOT

1/4" = 1'-0"

P-8-DFC-PERR-62



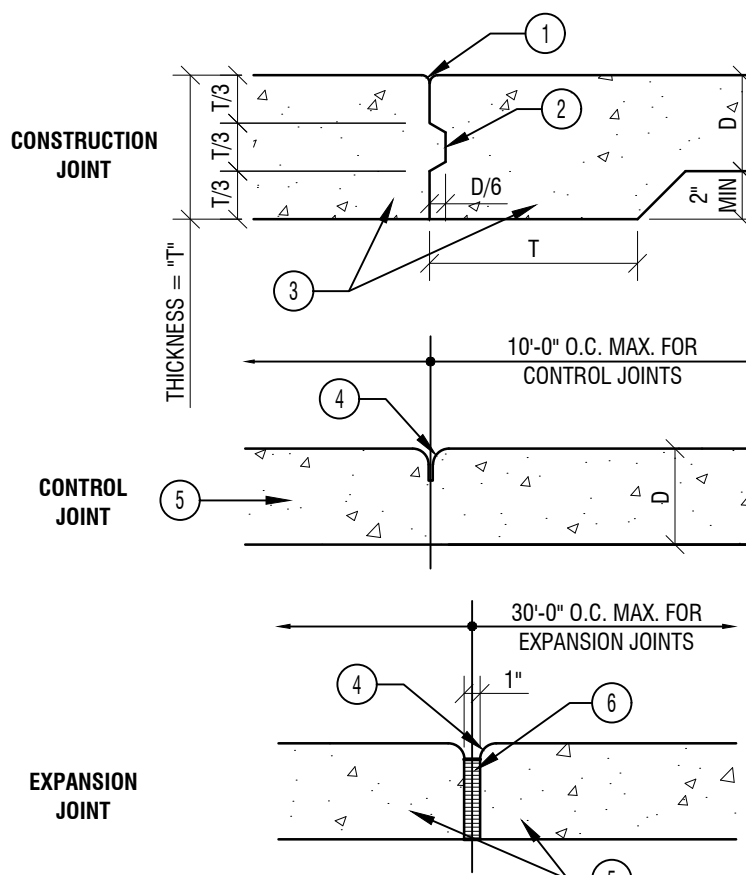
- 1 4" CONCRETE PAVEMENT ADJACENT TO RESTROOM BUILDING, 5" CONCRETE PAVEMENT IN PARKING LOT ISLAND, ROUGH BROOM FINISH
- 2 TOOL EDGES
- 3 FINISH GRADE
- 4 6" AGGREGATE BASE

B4

CONCRETE WALK

1" = 1'-0"

P-8-DFC-PERR-02



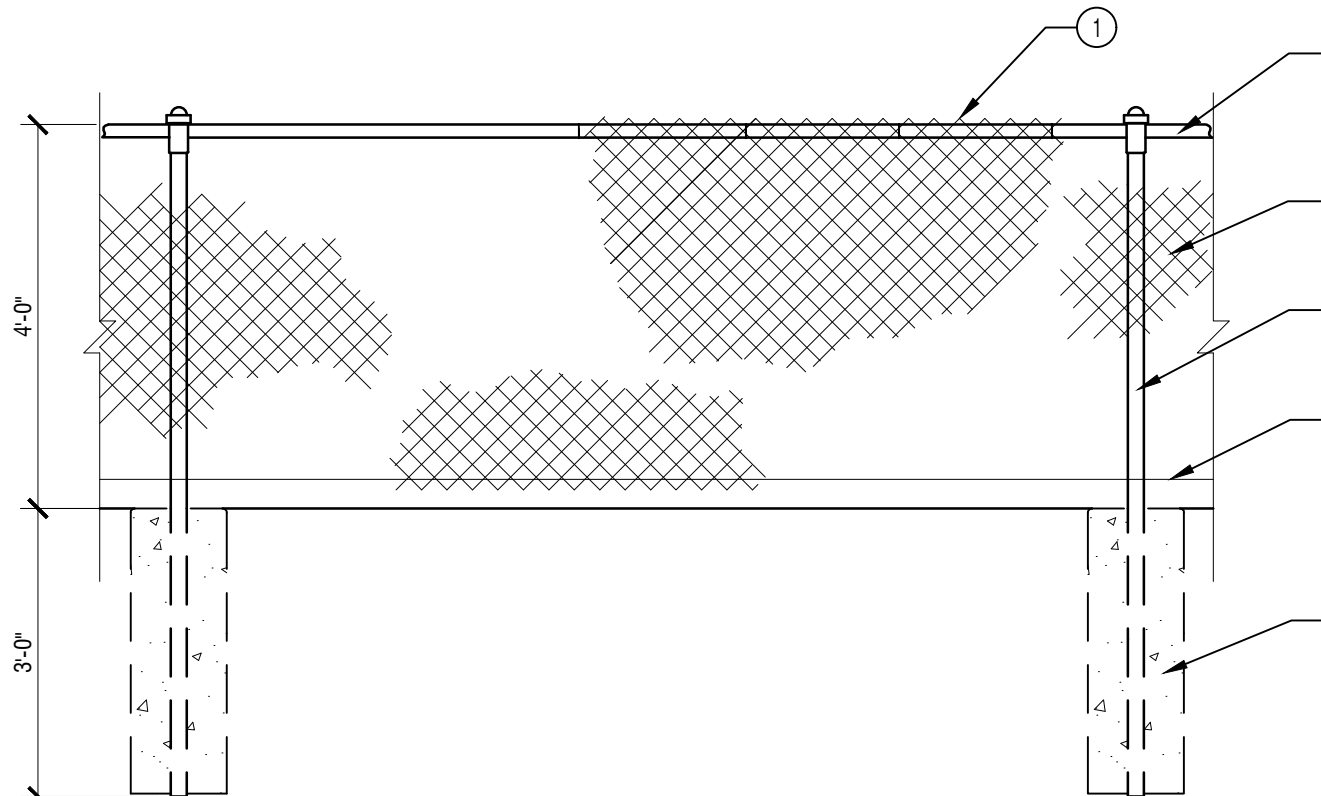
- 1 1/4" RADIUS
- 2 METAL OR WOOD FORMED KEYWAY
- 3 THICKEN SLABS TO 6" MINIMUM AT CONSTRUCTION JOINTS
- 4 1/2" RADIUS TROWELED JOINT
- 5 TYPICAL SLAB-ON-GRADE
- 6 EXPANSION JOINT FILLER

B5

JOINT SECTIONS

1 1/2" = 1'-0"

P-8-DFC-PERR-03



- 1 KNUCKLED SELVAGE, TOP AND BOTTOM
- 2 1-5/8" TOP RAIL
- 3 CHAIN LINK FABRIC
- 4 1-7/8" DIA. LINE POSTS. PROVIDE AND INSTALL TENSION BAR ATTACHED TO CORNER AND END POST WITH TENSION BANDS WHERE OCCURS
- 5 TENSION WIRE
- 6 12" DIA. X 36" DEEP CONCRETE FOOTINGS ON 4" BASE COURSE

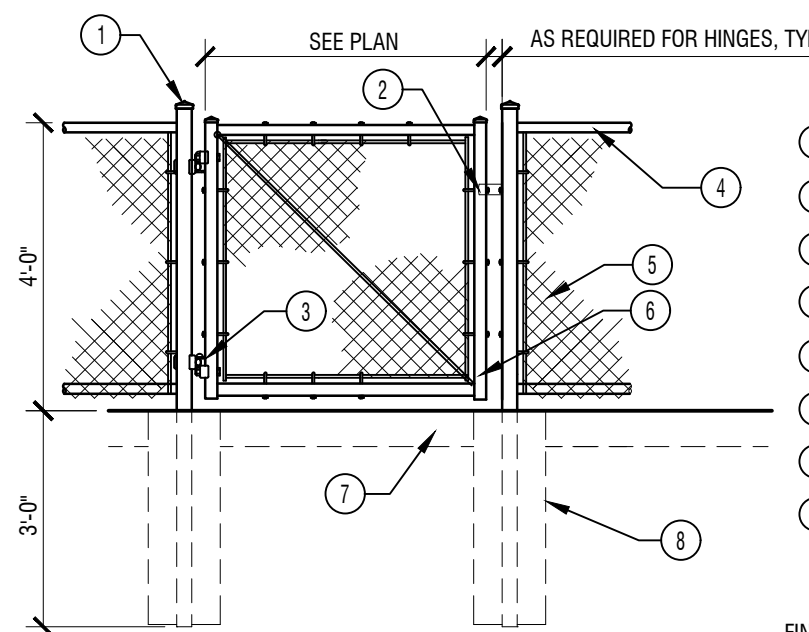
FINISH TO BE BLACK VINYL COATED

A1

CHAIN LINK FENCE - 4'

1/2" = 1'-0"

P-8-DFC-PERR-05



- 1 2-7/8" POST
- 2 LATCH
- 3 HINGE
- 4 1-5/8" TOP RAIL
- 5 CHAIN LINK FABRIC
- 6 GATE
- 7 12" WIDE MOWSTRIP
- 8 16" DIA. X 36" DEEP CONCRETE FOOTING ON 4" BASE COURSE

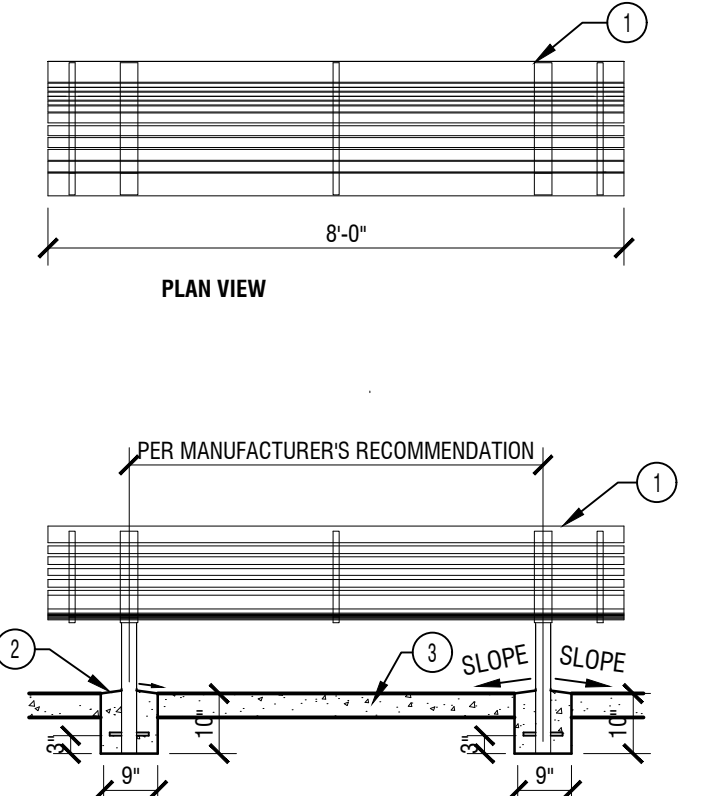
FINISH TO BE BLACK VINYL COATED

A3

CHAIN LINK SINGLE GATE - 4'

3/8" = 1'-0"

P-8-DFC-PERR-13



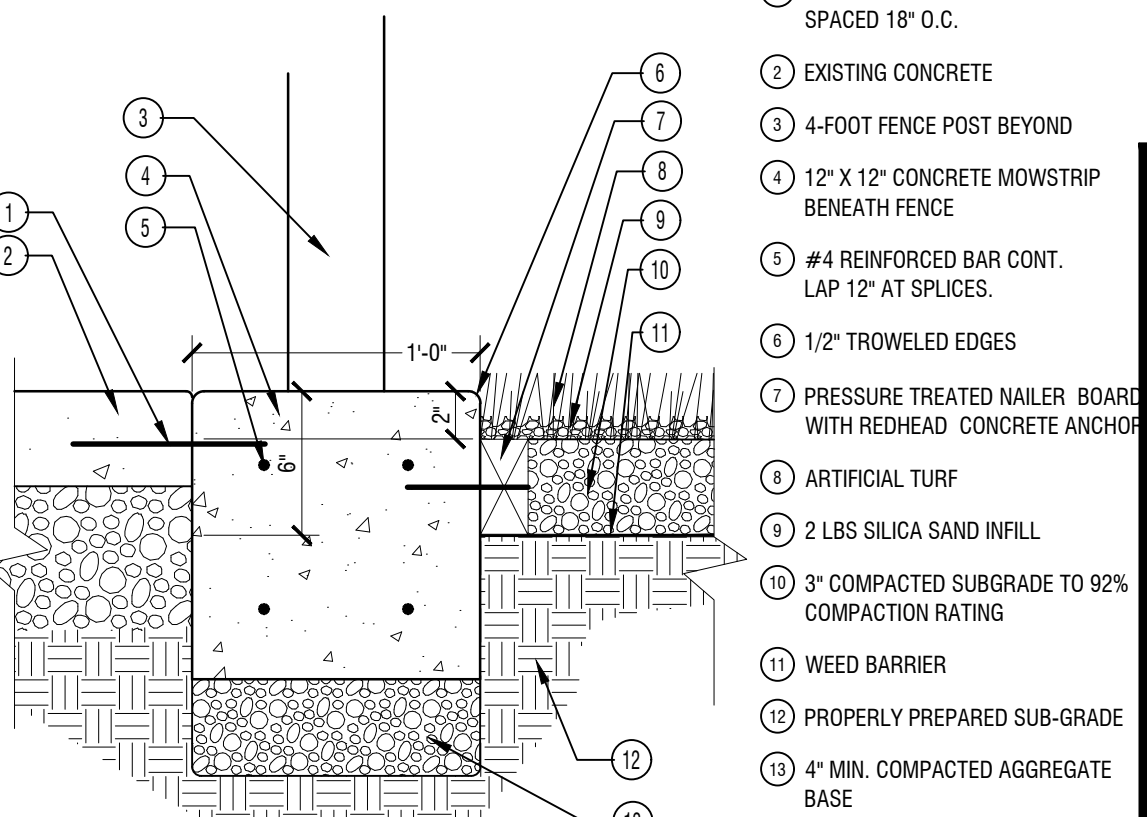
- 1 BENCH
- 2 CORE DRILL 9" MIN. DIAMETER HOLE IN CONCRETE. EXCAVATE A 10" DEEP HOLE. PLACE CONCRETE IN HOLES AND PLACE BENCH POST PUSHING OUT EXCESS WET CONCRETE
- 3 CONCRETE PAVEMENT

A4

TYPICAL BENCH IN-GROUND MOUNT

3/8" = 1'-0"

P-8-DFC-PERR-44



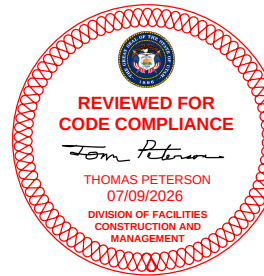
- 1 COLD JOINT & 8" #4 STEEL DOWELS SPACED 18" O.C.
- 2 EXISTING CONCRETE
- 3 4-FOOT FENCE POST BEYOND
- 4 12" X 12" CONCRETE MOWSTRIP BENEATH FENCE
- 5 #4 REINFORCED BAR CONT. LAP 12" AT SPLICES.
- 6 1/2" TROWELED EDGES
- 7 PRESSURE TREATED NAILER BOARD WITH REDHEAD CONCRETE ANCHOR
- 8 ARTIFICIAL TURF
- 9 2 LBS SILICA SAND INFILL
- 10 3" COMPACTED SUBGRADE TO 92% COMPACTION RATING
- 11 WEED BARRIER
- 12 PROPERLY PREPARED SUB-GRADE
- 13 4" MIN. COMPACTED AGGREGATE BASE

NOTE: PROVIDE CONSTRUCTION OR CONTROL JOINTS AT 3' O.C. MAX.

A5

ARTIFICIAL TURF GRASS WITH FENCE

1/8" = 1'-0"



PERRY REST AREA - LANDSCAPE
IMPROVEMENTS
NORTHBOUND I-15
PERRY, UTAH 84302
UTAH DEPARTMENT OF TRANSPORTATION

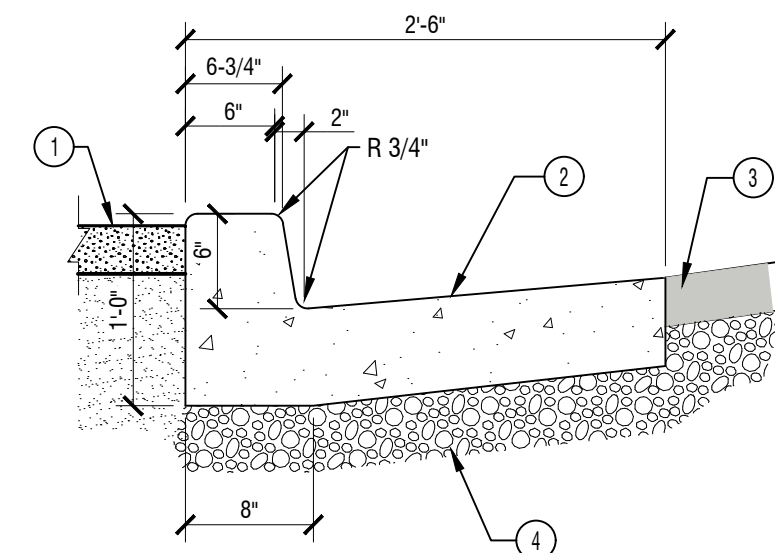
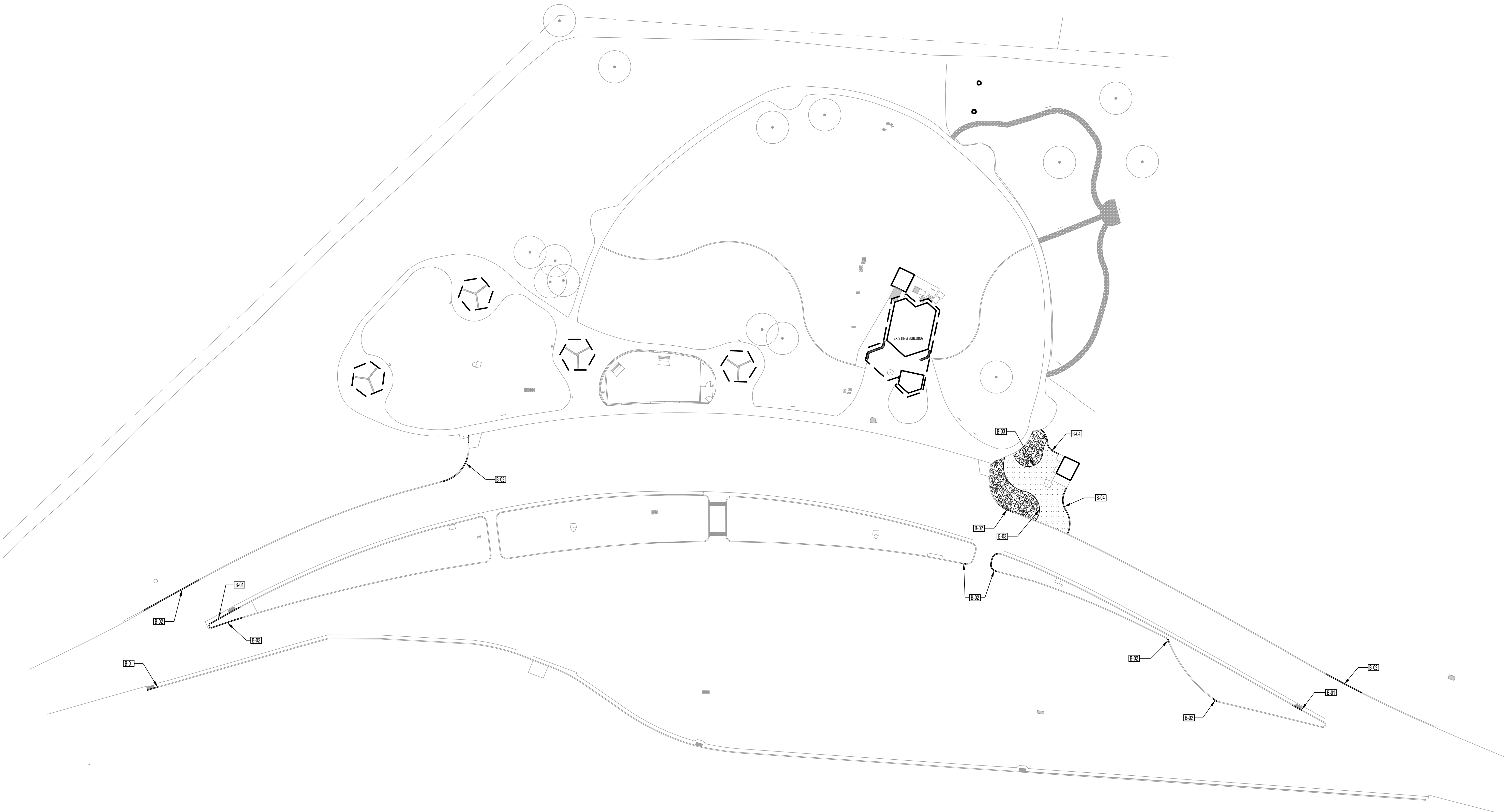
MARK: _____
DATE: _____
DESCRIPTION: _____

PROJECT #: 824308
DRAWN BY: K. ALTHOUSE
CHECKED BY: B. WRIGHT
ISSUED: 06.26.2026

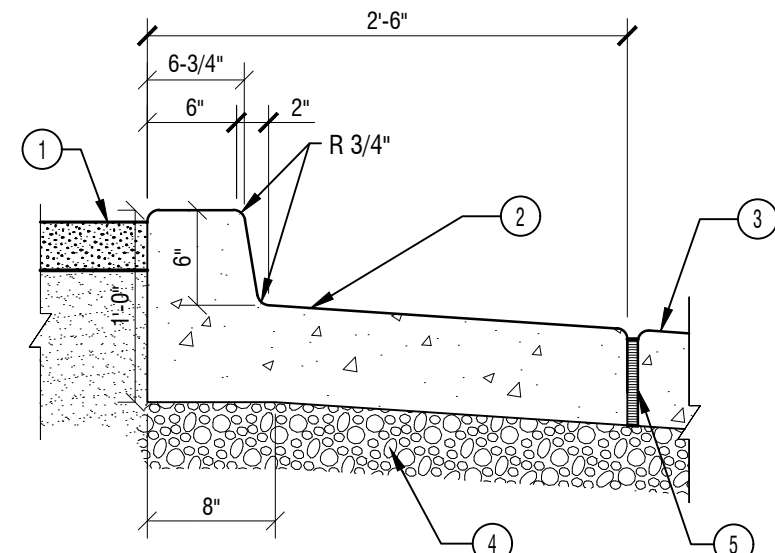


ADD
ALTERNATES
C-601

BID SET



- 1 GRAVEL MULCH - SEE PLANTING PLAN
- 2 CONCRETE CURB AND GUTTER
- 3 ASPHALT
- 4 COMPACTED GRAVEL



- 1 ROCK MULCH - SEE PLANTING PLAN
- 2 CONCRETE CURB AND INVERTED GUTTER
- 3 EXISTING CONCRETE
- 4 COMPACTED GRAVEL
- 5 EXPANSION JOINT

LEGEND

E-01	6" x 6" CONCRETE CURB WITH GUTTER	A1/C-601	
E-02	6" x 6" CONCRETE CURB	A2/C-601	ADD ALTERNATE 1
E-03	METAL EDGING	86 lf	D/L-501
E-04	CONCRETE MOWSTRIP - 6" wide X 6" deep	50 lf	B2/C-501
LANDSCAPE LEGEND			
	2" MINUS TAN CRUSHED ROCK MULCH - 3" depth, weed barrier beneath	1,032 sf	ADD ALTERNATE 2
	4-6" GRAY CRUSHED ROCK MULCH - 6" depth, weed barrier beneath	812 sf	

A1 CONCRETE CURB & GUTTER

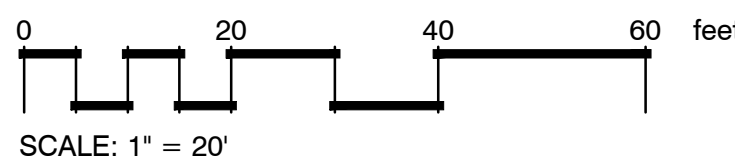
1" = 1'-0"

P-8-DFC-PERR-04

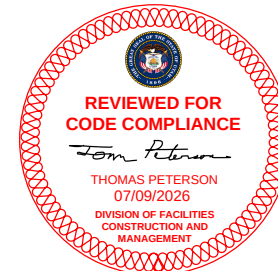
A2 INVERTED CURB & GUTTER

1" = 1'-0"

P-8-DFC-PERR-76



	SECTION 32 8423 UNDERGROUND SPRINKLERS	1.09 CONTRACTORS USE OF PREMISES	OF ARC AND ARROW INDICATING CENTER OF SPRAY PATTERN. 1. RAIN BIRD ROTORS: 3500, 5000, 6504, AND 8005.	C. USE WHITE OR GRAY COLOR FOR COMMON WIRE AND OTHER COLORS FOR ALL OTHER WIRE. EACH COMMON WIRE MAY SERVE ONLY ONE CONTROLLER. PROVIDE 12 INCHES OF EXPANSION LOOP SLACK WIRE AT ALL CONNECTIONS INSIDE VALVE BOX.
D	PART 1 GENERAL	A. CONTRACTOR IS RESPONSIBLE FOR DAMAGES AND INTERRUPTION OF ALL EXISTING UTILITIES.	E. DRIP TUBING: 1. RAIN BIRD XT 700 DISTRIBUTION TUBING OR APPROVED EQUAL.	D. PULLING OF PIPE IS NOT PERMITTED. E. WHEN DIGGING ON PROJECT SITE, THE AREA SHALL BE STAKED TO IDENTIFY THE APPROXIMATE LOCATION OF ALL KNOWN UNDERGROUND UTILITIES AND STRUCTURES.
	1.01 SUMMARY	B. CONTRACTOR SHALL NOT UNREASONABLY ENCUMBER SITE WITH MATERIALS AND EQUIPMENT.	F. DRIP TUBING FITTINGS: 1. RAIN BIRD BARBED INSERT FITTING OR RAIN BIRD COMPRESSION FITTING. 2. RAIN BIRD REMOVABLE FLUSH CAP. 3. RAIN BIRD DIFFUSER BUG CAP. 4. RAIN BIRD 1/4 INCH TUBING STAKE.	F. EXCAVATION WORK SHALL BE AS DEEP AND AS WIDE AS REQUIRED TO SAFELY PERFORM THE WORK, SUCH AS MAKING MAINLINE CONNECTIONS OR FORMING VAULTS. WHERE TRENCHING IS DONE IN ESTABLISHED LAWN, CARE MUST BE TAKEN TO KEEP THE TRENCHES ONLY AS WIDE AS IS NECESSARY TO ACCOMPLISH THE WORK.
	A. THE WORK COVERED BY THESE SPECIFICATIONS CONSISTS OF FURNISHING ALL LABOR, MATERIAL, EQUIPMENT AND SUPPLIES IN PERFORMING ALL OPERATIONS IN CONNECTION WITH PROVIDING AN IRRIGATION SYSTEM AND ALL SITE WORK IN STRICT ACCORDANCE WITH PROVIDED SPECIFICATIONS, DETAILS, AND DRAWINGS.	C. CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR PROTECTION AND SECURITY OF MATERIALS AND EQUIPMENT STORED ON JOB SITE.	G. DRIP EMITTER: ADJUSTABLE OUTLET, NON-CLOGGING, WITH TWO TRICKLE TUBES. 1. RAIN BIRD XERIBUG XB-PC.	G. IF MORE THAN ONE LINE IS REQUIRED IN A SINGLE TRENCH, THAT TRENCH SHALL BE DEEP AND WIDE ENOUGH TO ALLOW FOR AT LEAST 3 INCHES OF SEPARATION BETWEEN PIPES. INSTALL THE PIPING IN A MANNER FOR EASY REPAIR IN THE FUTURE.
	B. ANY MINOR ITEMS OF LABOR AND/OR MATERIALS NOT SPECIFICALLY NOTED ON THE DRAWINGS OR SPECIFICATIONS; BUT OBVIOUSLY NECESSARY FOR THE PROPER COMPLETION OF THE WORK, ARE TO BE CONSIDERED AS INCIDENTAL TO AND ARE TO BE INCLUDED IN THE CONTRACT. CONTRACTOR SHALL NOTE SUCH ITEMS AND PRESENT THEM TO OWNER BEFORE BID OPENING.	D. CONTRACTOR SHALL CONFINE OPERATIONS TO AREAS WITHIN HIS CONTRACT LIMITS.	H. DRIP BUBBLER: ADJUSTABLE OUTLET AND RAIN BIRD ROOT WATERING SOCK. I. QUICK-SPRINKLER & HOSE END: RAIN BIRD 44-NP.	H. OVER-EXCAVATE TRENCHES 2 INCHES AND BRING BACK TO INDICATED DEPTH BY FILLING WITH BACKFILL MATERIAL AS SPECIFIED UNDER PART 2 - PRODUCTS. SEPARATE OUT ROCKS LARGER THAN 1-1/2 INCH IN ANY DIRECTION UNCOVERED IN TRENCHING OPERATION FROM EXCAVATED MATERIAL, AND REMOVE FROM AREAS TO RECEIVE LANDSCAPING.
	C. CONTRACTOR SHOULD SUBMIT CONSTRUCTION SCHEDULE OF ANTICIPATED WORK TIME TO FACILITATE TIMELY VISITS FOR REVIEW OF WORK, SUCH PROPOSAL SHALL INCLUDE A PROJECTED TIME FRAME FOR INSTALLING THE SYSTEM. IT SHOULD REFLECT, IN CALENDAR DAYS, THE ANTICIPATED TIME REQUIRED FROM THE DAY OF THE AWARD TO COMPLETION OF THE SYSTEM IN A FULLY OPERATIONAL MODE. THIS SCHEDULE SHOULD REFLECT ANTICIPATED TIME FOR ORDERING AND RECEIVING ALL COMPONENTS, STARTING AND ENDING TIMES FOR INSTALLATION, SYSTEM START-UP, ETC.	E. ANY DAMAGES TO EXISTING STRUCTURES, SURFACES, OR UTILITIES CAUSED BY CONTRACTOR OR CONTRACTOR'S EMPLOYEES SHALL BE CONSIDERED CONTRACTOR'S RESPONSIBILITY AND WILL BE PART OF THIS CONTRACT TO BE CORRECTED TO SATISFACTION OF OWNER.	J. RISERS: STATIONARY SPRAY POP-UP SPRINKLER HEADS, SHRUB SPRAY HEADS, STATIONARY SPRAY SPRINKLER HEADS AND ROTOR HEADS SHALL HAVE RISERS MADE UP OF ONE OF THE FOLLOWING WAYS: 1. RISERS FOR IRRIGATION HEADS WITH INLET SIZE OF 1/2 INCH SHALL BE SWING PIPE 14 INCHES LONG MINIMUM AND 24 INCHES MAXIMUM. SWING PIPE WITH SPIRAL BARB FITTINGS AND STREET "L" SHALL BE ASSEMBLED ACCORDING TO PLAN DETAILS. EQUAL AS APPROVED BY LANDSCAPE ARCHITECT BEFORE BIDDING.	I. WHERE BECOMES NECESSARY TO EXCAVATE BEYOND THE LIMITS OF NORMAL EXCAVATION LINES TO REMOVE ROCK OR OTHER INTERFERING OBJECTS, THE VOID REMAINING AFTER THE REMOVAL OF THE OBJECT SHALL BE BACKFILLED WITH SUITABLE MATERIAL AND COMPACTED AS PER THE "EARTHWORK" SECTION. THE REMOVAL OF ALL ROCK OR OTHER INTERFERING OBJECTS AND THE BACKFILLING OF VOIDS LEFT BY SUCH REMOVALS SHALL BE AT THE EXPENSE OF THE CONTRACTOR.
	1.02 SECTION INCLUDES	F. CONTRACTOR IS RESPONSIBLE FOR CONTACTING UTILITY LOCATING SERVICES AND KEEPING UTILITIES CLEARLY MARKED ON THE JOB SITE. ANY UTILITIES, WIRING, OR PIPING DAMAGED BY CONTRACTOR WITHOUT FOLLOWING THESE GUIDELINES WILL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR.	K. GENERAL: 1. INSTALL PIPE, VALVES, CONTROLS, AND OUTLETS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. 2. CONNECT TO UTILITIES. 3. SET OUTLETS AND BOX COVERS AT FINISH GRADE ELEVATIONS AND SLOPED WITH SURROUNDING GRADE. 4. PROVIDE FOR THERMAL MOVEMENT OF COMPONENTS IN SYSTEM.	G. AFTER PIPING IS INSTALLED, BUT BEFORE OUTLETS ARE INSTALLED AND BACKFILLING COMMENCES, OPEN VALVES AND FLUSH SYSTEM WITH FULL HEAD OF WATER.
	A. PIPE AND FITTINGS, VALVES, SPRINKLER HEADS, EMITTERS, AND ACCESSORIES.	G. CONTRACTOR IS RESPONSIBLE FOR SAFETY ON JOB SITE. BARRICADING OR COVERING OPEN TRENCHES, ELIMINATING TRIP HAZARDS, AND OTHER SAFETY ISSUES ARE A PRIORITY. RENTAL OR SUPPLYING OF BARRICADES IS CONTRACTOR'S RESPONSIBILITY.	L. OVER-EXCAVATE TRENCHES 2 INCHES AND BRING BACK TO INDICATED DEPTH BY FILLING WITH BACKFILL MATERIAL AS SPECIFIED UNDER PART 2 - PRODUCTS. SEPARATE OUT ROCKS LARGER THAN 1-1/2 INCH IN ANY DIRECTION UNCOVERED IN TRENCHING OPERATION FROM EXCAVATED MATERIAL, AND REMOVE FROM AREAS TO RECEIVE LANDSCAPING.	3.06 FIELD QUALITY CONTROL
	1.03 DEFINITION	1.10 PERFORMANCE BOND/BID BOND/INSURANCE	M. OVER-EXCAVATE TRENCHES 2 INCHES AND BRING BACK TO INDICATED DEPTH BY FILLING WITH BACKFILL MATERIAL AS SPECIFIED UNDER PART 2 - PRODUCTS. SEPARATE OUT ROCKS LARGER THAN 1-1/2 INCH IN ANY DIRECTION UNCOVERED IN TRENCHING OPERATION FROM EXCAVATED MATERIAL, AND REMOVE FROM AREAS TO RECEIVE LANDSCAPING.	A. NOTIFY LANDSCAPE ARCHITECT TWO WORKING DAYS MINIMUM PRIOR TO TESTING.
	A. CIRCUIT PIPING: DOWNSTREAM FROM CONTROL VALVES TO SPRINKLERS, SPECIALTIES, AND DRAIN VALVES. PIPING IS UNDER PRESSURE DURING FLOW.	A. THE OWNER SHALL HAVE THE RIGHT TO REQUIRE THE CONTRACTOR TO FURNISH BONDS COVERING FAITHFUL PERFORMANCE OF THE CONTRACT AND PAYMENT OF OBLIGATIONS ARISING THEREUNDER AS STIPULATED IN BIDDING REQUIREMENTS. A BID BOND, CERTIFIED CHECK, OR CASHIER'S CHECK EXECUTED IN FAVOR OF DFCM IN THE AMOUNT OF FIVE PERCENT (5%) OF THE TOTAL BID PRICE MUST BE SUBMITTED WITH THE PROPOSAL AS GUARANTEE THAT BIDDER IS WILLING TO ENTER INTO A CONTRACT. BIDDER MUST ALSO BE ABLE TO PROVIDE A ONE HUNDRED PERCENT (100%) PERFORMANCE AND PAYMENT BOND AT TIME OF AWARD OF CONTRACT.	N. OVER-EXCAVATE TRENCHES 2 INCHES AND BRING BACK TO INDICATED DEPTH BY FILLING WITH BACKFILL MATERIAL AS SPECIFIED UNDER PART 2 - PRODUCTS. SEPARATE OUT ROCKS LARGER THAN 1-1/2 INCH IN ANY DIRECTION UNCOVERED IN TRENCHING OPERATION FROM EXCAVATED MATERIAL, AND REMOVE FROM AREAS TO RECEIVE LANDSCAPING.	B. FIELD INSPECTION AND TESTING WILL BE PERFORMED UNDER PROVISIONS OF SECTION 01 4000 - QUALITY REQUIREMENTS.
	B. DRAIN PIPING: DOWNSTREAM FROM CIRCUIT-PIPING DRAIN VALVES. PIPING IS NOT UNDER PRESSURE.	B. SUCCESSFUL CONTRACTOR MUST MEET FEDERAL, STATE, COUNTY AND CITY CODES AND REGULATIONS. PROOF OF LIABILITY INSURANCE AND WORKMENS COMPENSATION MUST BE SUBMITTED WITH BID.	O. OVER-EXCAVATE TRENCHES 2 INCHES AND BRING BACK TO INDICATED DEPTH BY FILLING WITH BACKFILL MATERIAL AS SPECIFIED UNDER PART 2 - PRODUCTS. SEPARATE OUT ROCKS LARGER THAN 1-1/2 INCH IN ANY DIRECTION UNCOVERED IN TRENCHING OPERATION FROM EXCAVATED MATERIAL, AND REMOVE FROM AREAS TO RECEIVE LANDSCAPING.	C. PRIOR TO BACKFILLING, TEST SYSTEM FOR LEAKAGE AT MAIN PIPING TO MAINTAIN 100 PSI (690 KPA) PRESSURE FOR SIX HOURS MINIMUM.
	C. MAINLINE PIPING: DOWNSTREAM FROM POINT OF CONNECTION TO WATER DISTRIBUTION PIPING TO AND INCLUDING CONTROL VALVES. PIPING IS UNDER WATER DISTRIBUTION SYSTEM PRESSURE.	1.11 SUPERVISION	P. OVER-EXCAVATE TRENCHES 2 INCHES AND BRING BACK TO INDICATED DEPTH BY FILLING WITH BACKFILL MATERIAL AS SPECIFIED UNDER PART 2 - PRODUCTS. SEPARATE OUT ROCKS LARGER THAN 1-1/2 INCH IN ANY DIRECTION UNCOVERED IN TRENCHING OPERATION FROM EXCAVATED MATERIAL, AND REMOVE FROM AREAS TO RECEIVE LANDSCAPING.	D. SYSTEM IS ACCEPTABLE IF NO LEAKAGE OR LOSS OF PRESSURE OCCURS AND SYSTEM SELF DRAINS DURING TEST PERIOD.
	1.04 PROJECT CONDITIONS	A. THE CONTRACTOR SHALL PROVIDE A COMPETENT SUPERINTENDENT AND ANY NECESSARY ASSISTANTS ON THE PROJECT WHEN WORK IS IN PROGRESS. THE SUPERINTENDENT SHALL NOT BE CHANGED DURING THE PROJECT WITHOUT THE CONSENT OF THE OWNERS REPRESENTATIVE UNLESS THE SUPERINTENDENT CEASES HIS STATUS AS AN EMPLOYEE OF THE CONTRACTOR. THE SUPERINTENDENT SHALL REPRESENT THE CONTRACTOR IN THE CONTRACTOR'S ABSENCE, AND ALL DIRECTIONS GIVEN TO HIM BY THE OWNER'S REPRESENTATIVE SHALL BE BINDING AS IF THEY WERE GIVEN TO THE CONTRACTOR.	Q. OVER-EXCAVATE TRENCHES 2 INCHES AND BRING BACK TO INDICATED DEPTH BY FILLING WITH BACKFILL MATERIAL AS SPECIFIED UNDER PART 2 - PRODUCTS. SEPARATE OUT ROCKS LARGER THAN 1-1/2 INCH IN ANY DIRECTION UNCOVERED IN TRENCHING OPERATION FROM EXCAVATED MATERIAL, AND REMOVE FROM AREAS TO RECEIVE LANDSCAPING.	E. ALL TRENCHES SHALL BE BACKFILLED AND THEN SATURATED WITH WATER SUFFICIENTLY TO ENSURE NO SETTLING OF THE SURFACE AFTER LAWN IS PLANTED.
	A. IRRIGATION WATER SHALL BE PROVIDED BY THE FOLLOWING: 1. WATER SYSTEM TO BE CONNECTED TO EXISTING MAINLINE. 2. DESIGN PRESSURE OF THE IRRIGATION DESIGN IS 65 PSI. 3. STATIC PRESSURE IN MAINLINE SHALL BE VERIFIED BY THE CONTRACTOR. IF PRESSURE IS 5 PSI HIGHER OR LOWER AS SPECIFIED, THE INSTALLER SHALL NOTIFY THE PROJECT REPRESENTATIVE.	B. THE CONTRACTOR'S SUPERINTENDENT SHALL SUPERVISE THE CONTRACTOR'S EMPLOYEES ON THE JOB SITE AND BE RESPONSIBLE FOR THEIR ACTIONS AND CONDUCT ON THE JOB SITE.	R. OVER-EXCAVATE TRENCHES 2 INCHES AND BRING BACK TO INDICATED DEPTH BY FILLING WITH BACKFILL MATERIAL AS SPECIFIED UNDER PART 2 - PRODUCTS. SEPARATE OUT ROCKS LARGER THAN 1-1/2 INCH IN ANY DIRECTION UNCOVERED IN TRENCHING OPERATION FROM EXCAVATED MATERIAL, AND REMOVE FROM AREAS TO RECEIVE LANDSCAPING.	F. ANY PORTION OF THE SYSTEM WHICH SHOWS DEFECTS OR LEAKAGE SHALL BE REPAIRED TO SATISFACTION OF THE LANDSCAPE ARCHITECT AND OWNER OR BE REPLACED. AFTER ALL REPAIRS OR REPLACEMENTS HAVE BEEN MADE AND APPROVED BY THE LANDSCAPE ARCHITECT, THE ABOVE REQUIRED TEST SHALL BE MADE AGAIN.
	B. MINIMUM WATER COVERAGE: 1. IRRIGATION HEADS IN LAWN AREAS SHALL BE SPACED 85% OF THE RADIUS FOR ROTORS AND 90% OF THE RADIUS FOR SPRAY HEADS. 2. SHRUBS, AND PERENNIALS SHALL HAVE ADEQUATE WATER APPLIED TO THE ROOT ZONES TO ENSURE PLANT HEALTH AND DEVELOPMENT. C. THE IRRIGATION SYSTEM SHALL PROVIDE THE MANUFACTURER'S RECOMMENDED MINIMUM OPERATION PRESSURE TO EVERY IRRIGATION HEAD. D. MINIMUM WORKING PRESSURES: THE FOLLOWING ARE MINIMUM PRESSURE REQUIREMENTS FOR PIPING, VALVES, AND SPECIALTIES, UNLESS OTHERWISE INDICATED: 1. PRESSURE PIPING: 200 PSIG. 2. CIRCUIT PIPING: 150 PSIG. 3. DRAIN PIPING: 100 PSIG.	1.12 GUARANTEE	S. OVER-EXCAVATE TRENCHES 2 INCHES AND BRING BACK TO INDICATED DEPTH BY FILLING WITH BACKFILL MATERIAL AS SPECIFIED UNDER PART 2 - PRODUCTS. SEPARATE OUT ROCKS LARGER THAN 1-1/2 INCH IN ANY DIRECTION UNCOVERED IN TRENCHING OPERATION FROM EXCAVATED MATERIAL, AND REMOVE FROM AREAS TO RECEIVE LANDSCAPING.	3.08 SYSTEM STARTUP
	1.05 SYSTEM PERFORMANCE REQUIREMENTS	A. SUBMIT ONE-YEAR WRITTEN GUARANTEE SIGNED BY UNDERGROUND SPRINKLER CONTRACTOR, AGREEING TO REPAIR OR REPLACE ALL DEFECTS IN MATERIAL, EQUIPMENT, AND WORKMANSHIP. B. GUARANTEE SHALL ALSO COVER REPAIR OF DAMAGE TO ANY PART OF THE PREMISES RESULTING FROM LEAKS OR OTHER DEFECTS IN MATERIAL, EQUIPMENT, AND WORKMANSHIP TO THE SATISFACTION OF THE OWNER. REPAIRS IF REQUIRED, SHALL BE DONE PROMPTLY AT NO COST TO THE OWNER.	T. OVER-EXCAVATE TRENCHES 2 INCHES AND BRING BACK TO INDICATED DEPTH BY FILLING WITH BACKFILL MATERIAL AS SPECIFIED UNDER PART 2 - PRODUCTS. SEPARATE OUT ROCKS LARGER THAN 1-1/2 INCH IN ANY DIRECTION UNCOVERED IN TRENCHING OPERATION FROM EXCAVATED MATERIAL, AND REMOVE FROM AREAS TO RECEIVE LANDSCAPING.	A. PREPARE AND START SYSTEM IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
	A. MINIMUM WATER COVERAGE: 1. IRRIGATION HEADS IN LAWN AREAS SHALL BE SPACED 85% OF THE RADIUS FOR ROTORS AND 90% OF THE RADIUS FOR SPRAY HEADS. 2. SHRUBS, AND PERENNIALS SHALL HAVE ADEQUATE WATER APPLIED TO THE ROOT ZONES TO ENSURE PLANT HEALTH AND DEVELOPMENT. C. THE IRRIGATION SYSTEM SHALL PROVIDE THE MANUFACTURER'S RECOMMENDED MINIMUM OPERATION PRESSURE TO EVERY IRRIGATION HEAD. D. MINIMUM WORKING PRESSURES: THE FOLLOWING ARE MINIMUM PRESSURE REQUIREMENTS FOR PIPING, VALVES, AND SPECIALTIES, UNLESS OTHERWISE INDICATED: 1. PRESSURE PIPING: 200 PSIG. 2. CIRCUIT PIPING: 150 PSIG. 3. DRAIN PIPING: 100 PSIG.	1.13 SEQUENCING AND SCHEDULING	U. OVER-EXCAVATE TRENCHES 2 INCHES AND BRING BACK TO INDICATED DEPTH BY FILLING WITH BACKFILL MATERIAL AS SPECIFIED UNDER PART 2 - PRODUCTS. SEPARATE OUT ROCKS LARGER THAN 1-1/2 INCH IN ANY DIRECTION UNCOVERED IN TRENCHING OPERATION FROM EXCAVATED MATERIAL, AND REMOVE FROM AREAS TO RECEIVE LANDSCAPING.	B. ADJUST CONTROL SYSTEM TO ACHIEVE TIME CYCLES REQUIRED TO PROVIDE PROPER AMOUNTS OF WATER TO ALL PLANTS.
	1.06 SUBMITTALS	A. MAINTAIN UNINTERRUPTED WATER SERVICE TO BUILDING DURING NORMAL WORKING HOURS. ARRANGE FOR TEMPORARY WATER SHUTOFF WITH OWNER.	V. OVER-EXCAVATE TRENCHES 2 INCHES AND BRING BACK TO INDICATED DEPTH BY FILLING WITH BACKFILL MATERIAL AS SPECIFIED UNDER PART 2 - PRODUCTS. SEPARATE OUT ROCKS LARGER THAN 1-1/2 INCH IN ANY DIRECTION UNCOVERED IN TRENCHING OPERATION FROM EXCAVATED MATERIAL, AND REMOVE FROM AREAS TO RECEIVE LANDSCAPING.	C. ADJUST HEADS TO PROPER GRADE WHEN TURF IS SUFFICIENTLY ESTABLISHED TO ALLOW WALKING ON IT WITHOUT APPRECIABLE HARM. SUCH LOWERING OF GRADE OR RAISING OF HEADS SHALL BE PART OF ORIGINAL CONTRACT WITH NO ADDITIONAL COST TO OWNER.
	A. SEE SECTION 01 3000 - ADMINISTRATIVE REQUIREMENTS, FOR SUBMITTAL PROCEDURES.	B. COORDINATE LAWN IRRIGATION PIPING WITH WORK SPECIFIED IN DIVISION 32 9223 "SOODING" AND 32 9300 "PLANTS". C. COORDINATE LAWN IRRIGATION PIPING WITH UTILITY WORK.	W. OVER-EXCAVATE TRENCHES 2 INCHES AND BRING BACK TO INDICATED DEPTH BY FILLING WITH BACKFILL MATERIAL AS SPECIFIED UNDER PART 2 - PRODUCTS. SEPARATE OUT ROCKS LARGER THAN 1-1/2 INCH IN ANY DIRECTION UNCOVERED IN TRENCHING OPERATION FROM EXCAVATED MATERIAL, AND REMOVE FROM AREAS TO RECEIVE LANDSCAPING.	D. ADJUST SPRINKLER HEADS FOR PROPER DISTRIBUTION AND SO SPRAY DOES NOT FALL ON BUILDING.
	B. PRODUCT DATA: SUBMIT TECHNICAL PRODUCT DATA AND INSTALLATION INSTRUCTIONS FOR IRRIGATION SYSTEM MATERIALS AND PRODUCTS.	2.02 FILL MATERIAL	X. OVER-EXCAVATE TRENCHES 2 INCHES AND BRING BACK TO INDICATED DEPTH BY FILLING WITH BACKFILL MATERIAL AS SPECIFIED UNDER PART 2 - PRODUCTS. SEPARATE OUT ROCKS LARGER THAN 1-1/2 INCH IN ANY DIRECTION UNCOVERED IN TRENCHING OPERATION FROM EXCAVATED MATERIAL, AND REMOVE FROM AREAS TO RECEIVE LANDSCAPING.	3.09 CLOSEOUT ACTIVITIES
	C. SHOP DRAWINGS: SUBMIT SHOP DRAWINGS OR "AS BUILT" DRAWINGS FOR IRRIGATION SYSTEMS SHOWING PIPING MATERIALS, SIZES, LOCATIONS, AND ELEVATIONS. INCLUDE DETAILS OF UNDERGROUND STRUCTURES, CONNECTIONS, THRUST BLOCKS, AND ANCHORING. SHOW INTERFACE AND SPATIAL RELATIONSHIP BETWEEN PIPING AND PROXIMATE STRUCTURES.	A. BACKFILL MATERIAL	Y. OVER-EXCAVATE TRENCHES 2 INCHES AND BRING BACK TO INDICATED DEPTH BY FILLING WITH BACKFILL MATERIAL AS SPECIFIED UNDER PART 2 - PRODUCTS. SEPARATE OUT ROCKS LARGER THAN 1-1/2 INCH IN ANY DIRECTION UNCOVERED IN TRENCHING OPERATION FROM EXCAVATED MATERIAL, AND REMOVE FROM AREAS TO RECEIVE LANDSCAPING.	A. AT THE POINT OF SUBSTANTIAL COMPLETION OF WORK OUTLINED IN THESE PLANS, THE LANDSCAPE CONTRACTOR SHALL CONTACT THE OWNER'S REPRESENTATIVE AND ARRANGE FOR A WALK THROUGH TO VERIFY THE INSTALLATION OF THE SYSTEM. A COVERAGE TEST WILL BE COMPLETED AND THE SYSTEM INSTALLATION INSPECTED AND A PUNCH LIST OF FINAL ITEMS NEEDING COMPLETION MADE.
	D. OPERATION AND MAINTENANCE DATA: INCLUDE IN MAINTENANCE MANUALS SPECIFIED IN DIVISION 1. INCLUDE DATA FOR THE FOLLOWING: 1. PROVIDE TYPEWRITTEN INSTRUCTIONS FOR OPERATION AND MAINTENANCE OF SYSTEM AND CONTROLS, SEASONAL ACTIVATION AND SHUTDOWN, AND MANUFACTURER'S PARTS CATALOG. 2. PROVIDE SCHEDULE INDICATING LENGTH OF TIME EACH VALVE IS REQUIRED TO BE OPEN TO PROVIDE ADEQUATE WATER TO THE PLANTS. 3. SUBMIT MANUALS WITH RECORD DRAWINGS. THE MANUAL SHALL ALSO CONTAIN: a. IDENTIFICATION READABLE FROM THE OUTSIDE OF THE COVER STATING BY WHOM THE INFORMATION WAS COMPILED. b. NEATLY TYPE-WRITTEN INDEX NEAR THE FRONT OF THE MANUAL, FURNISHING IMMEDIATE INFORMATION AS TO THE LOCATION IN THE MANUAL OF ALL EMERGENCY DATA REGARDING THE INSTALLATION. c. COMPLETE NOMENCLATURE OF ALL REPLACEABLE PARTS, THEIR PART NUMBERS, CURRENT COST, AND NAME AND ADDRESS OF THE NEAREST VENDOR OF REPLACEMENT PARTS. d. COMPLETE OUTLINE OF FUTURE WATERING SCHEDULES AND WHEN THEY SHOULD BE CHANGED FROM THE INITIAL INSTALLATION SCHEDULE. THE INITIAL SCHEDULE IS CALCULATED FOR A WATERING RATE TO ESTABLISH LAWN. e. COPY OF ALL GUARANTEES AND WARRANTIES ISSUED ON THE INSTALLATION SHOWING ALL DATES OF EXPIRATION.	B. DRAINAGE FILL MATERIAL	Z. OVER-EXCAVATE TRENCHES 2 INCHES AND BRING BACK TO INDICATED DEPTH BY FILLING WITH BACKFILL MATERIAL AS SPECIFIED UNDER PART 2 - PRODUCTS. SEPARATE OUT ROCKS LARGER THAN 1-1/2 INCH IN ANY DIRECTION UNCOVERED IN TRENCHING OPERATION FROM EXCAVATED MATERIAL, AND REMOVE FROM AREAS TO RECEIVE LANDSCAPING.	B. AT THE TIME OF FINAL INSPECTION, THE ENTIRE SYSTEM MUST BE TESTED IN THE PRESENCE OF OWNERS REPRESENTATIVE. IT MUST BE FULLY OPERATIONAL IN A SATISFACTORY CONDITION, WITH FULL UNIFORM COVERAGE OF THE AREAS INDICATED TO BE IRRIGATED. ALL HEADS SHALL BE ADJUSTED TO PATTERN, RADIUS, AND GRADE LEVEL.
	E. RECORD DRAWINGS: AS INSTALLATION OCCURS, PREPARE ACCURATE RECORD DRAWINGS OF PIPING SYSTEM TO BE SUBMITTED PRIOR TO FINAL INSPECTION THAT ALSO INCLUDES: 1. DETAIL AND DIMENSION CHANGES MADE DURING CONSTRUCTION 2. SIGNIFICANT DETAILS AND DIMENSIONS NOT SHOWN IN THE APPROVED CONTRACT DOCUMENTS. 3. FIELD DIMENSIONED LOCATIONS OF VALVE BOXES, MANUAL DRAINS, CONTROL WIRE RUNS NOT IN MAINLINE DITCH, AND BOTH ENDS OF SLEEVES. 4. TAKE DIMENSIONS FROM PERMANENT CONSTRUCTED SURFACES OR EDGES LOCATED AT OR ABOVE FINISH GRADE. 5. TAKE AND RECORD DIMENSIONS AT TIME OF INSTALLATION.	2.03 PIPE MATERIALS	AA. OVER-EXCAVATE TRENCHES 2 INCHES AND BRING BACK TO INDICATED DEPTH BY FILLING WITH BACKFILL MATERIAL AS SPECIFIED UNDER PART 2 - PRODUCTS. SEPARATE OUT ROCKS LARGER THAN 1-1/2 INCH IN ANY DIRECTION UNCOVERED IN TRENCHING OPERATION FROM EXCAVATED MATERIAL, AND REMOVE FROM AREAS TO RECEIVE LANDSCAPING.	C. BEFORE THE INSPECTION IS COMPLETE, THE CONTRACTOR MUST FURNISH THE "AS BUILT" DRAWINGS. THESE DRAWINGS SHOULD BE UPDATED ON A DAILY BASIS TO ENSURE ACCURACY. THESE DRAWINGS MUST SHOW THE LOCATION OF ALL PIPING, VALVES, HEADS, WIRE SPLICES AND OTHER PERTINENT INFORMATION. THESE DRAWINGS AND ALL MAINTENANCE MANUALS MUST BE SUBMITTED AT THE TIME OF FINAL INSPECTION IN ACCORDANCE WITH THESE SPECIFICATIONS.
	F. MAINTENANCE MATERIALS: PROVIDE THE FOLLOWING FOR OWNER'S USE IN MAINTENANCE OF PROJECT. 1. EXTRA SPRINKLER HEADS: ONE OF EACH TYPE AND SIZE. 2. EXTRA VALVE BOX KEYS: ONE. 3. WRENCHES: ONE FOR EACH TYPE HEAD CORE AND FOR REMOVING AND INSTALLING EACH TYPE HEAD. 4. WARRANTY DOCUMENTS: WARRANTY DOCUMENTS SHALL BE SUBMITTED TO OWNER AT THE TIME OF FINAL INSPECTION.	A. PVC PIPE: ASTM D2241; 200 PSI (1.38 MPa) PRESSURE RATED UPSTREAM FROM CONTROLS, 160 PSI (1.10 MPa) DOWNSTREAM. SOLVENT WELDED SOCKETS. 1. ALL LATERAL PIPING SMALLER THAN 3", SHALL BE SCHEDULE 40 PRESSURE RATED PVC GLUE JOINT PIPE WITH RATINGS PRINTED ON OUTSIDE OF PIPE. 2. ALL LATERAL PIPE AND FITTINGS SHALL BE SCHEDULE 40 PRESSURE RATED PVC UNLESS SPECIFICALLY NOTED ON DRAWINGS. 3. ALL MAIN PRESSURE SIDE VALVE MANIFOLD PIPING SHALL BE DOMESTIC GALVANIZED IRON PIPE AND FITTINGS. ALL GALVANIZED IRON PIPE AND FITTING CONFIGURATIONS SHALL MATCH DETAIL DRAWINGS EXACTLY. B. FITTINGS: 1. MAINLINES SHALL HAVE PVC SCH. 40 FITTINGS FOR PIPE SIZES 3/4 INCH THROUGH 1-1/2 INCH, PVC SCH. 80 FOR PIPE SIZES 2 INCH THROUGH 3 INCH AND PUSH ON DUCTILE OR MECHANICAL CAST IRON FITTINGS ON PVC MAINLINE 4 INCH AND LARGER. 2. MAIN LINE PRESSURE FITTINGS SHALL BE CAST IRON MANUFACTURED BY HARCO OR APPROVED EQUAL. 3. ALL POLYETHYLENE PIPE FITTINGS SHALL BE COMPRESSION FITTINGS OR INSERT BARBED FITTINGS SECURED WITH STAINLESS STEEL CLAMPS. 4. REMOTE CONTROL VALVE CONNECTION TO MAINLINE SHALL BE PVC SST TEE, EPOXY COATED DOUBLE STRAP SADDLE, M.J. TEE, OR HARCO DUCTILE IRONS SERVICE TEES. 5. JOINT RESTRAINT SHALL BE LEEMCO OR APPROVED EQUAL.	AB. OVER-EXCAVATE TRENCHES 2 INCHES AND BRING BACK TO INDICATED DEPTH BY FILLING WITH BACKFILL MATERIAL AS SPECIFIED UNDER PART 2 - PRODUCTS. SEPARATE OUT ROCKS LARGER THAN 1-1/2 INCH IN ANY DIRECTION UNCOVERED IN TRENCHING OPERATION FROM EXCAVATED MATERIAL, AND REMOVE FROM AREAS TO RECEIVE LANDSCAPING.	D. IF AT THE TIME OF THE FINAL INSPECTION THERE IS ANY ADDITIONAL WORK TO SATISFY CONTRACT REQUIREMENTS, IT WILL BE NOTED ON A "PUNCH LIST". CONTRACTOR WILL HAVE 10 DAYS IN ORDER TO SATISFY, OR MAKE SUITABLE ARRANGEMENTS WITH OWNER TO SATISFY ITEMS ON THE "PUNCH LIST". AT OWNER'S DISCRETION FINAL PAYMENT OR A PORTION THEREOF, COULD BE HELD PENDING COMPLETION OF "PUNCH LIST" ITEMS.
	1.07 QUALITY ASSURANCE	C. SLEEVE MATERIAL: 1. SLEEVE DIAMETER SHALL BE TWO TIMES LARGER THAN PIPE THAT IS TO BE INSTALLED IN SLEEVE. SLEEVES 4" AND SMALLER DIAMETER SHALL BE PVC SCHEDULE 40. SLEEVES 4 INCH AND LARGER SHALL BE CLASS 200 PVC OR PVC SEWER PIPE. 2. PIPING AND CONTROL WIRES UNDER WALKS, ROTORS, OR OTHER HARD SURFACES SHALL BE INSTALLED IN CLASS 200 PVC SLEEVES OF ADEQUATE SIZE OR AS NOTED ON DRAWINGS. 3. SLEEVES FOR ELECTRICAL CONDUIT SHALL BE ADEQUATE TO ACCOMMODATE MINIMUM CONDUIT SIZES AS REQUIRED BY UNIFORM ELECTRICAL CODE. 4. WIRE SLEEVES SHALL BE PVC PIPE OR ELECTRICAL TUBING. MAXIMUM NUMBER OF 14-GAUGE WIRE IN SLEEVE SHALL BE AS FOLLOWS: a. 1-10 WIRES IN A 1 INCH SLEEVE b. 11-18 WIRES IN A 1-1/4 INCH SLEEVE	AC. OVER-EXCAVATE TRENCHES 2 INCHES AND BRING BACK TO INDICATED DEPTH BY FILLING WITH BACKFILL MATERIAL AS SPECIFIED UNDER PART 2 - PRODUCTS. SEPARATE OUT ROCKS LARGER THAN 1-1/2 INCH IN ANY DIRECTION UNCOVERED IN TRENCHING OPERATION FROM EXCAVATED MATERIAL, AND REMOVE FROM AREAS TO RECEIVE LANDSCAPING.	E. INSTRUCT OWNERS PERSONNEL IN OPERATION AND MAINTENANCE OF THE SYSTEM, INCLUDING ADJUSTING OF SPRINKLER HEADS. USE OPERATION AND MAINTENANCE DATA AS BASIS FOR DEMONSTRATION.
	1.08 CODES AND STANDARDS	D. PIPE CONNECTION MATERIAL 1. P-70 PRIMER 2. 711 SOLVENT/GLUE 3. TEFLON TAPE	AD. OVER-EXCAVATE TRENCHES 2 INCHES AND BRING BACK TO INDICATED DEPTH BY FILLING WITH BACKFILL MATERIAL AS SPECIFIED UNDER PART 2 - PRODUCTS. SEPARATE OUT ROCKS LARGER THAN 1-1/2 INCH IN ANY DIRECTION UNCOVERED IN TRENCHING	



PERRY REST AREA - LANDSCAPE IMPROVEMENTS

PERRY, UTAH 84302

[illegible]

PROJECT #: 824308

DRAWN BY: K. ALTHOUSE

CHECKED BY: B. WRIGHT

ISSUED: 06.26.2026



PLANTING PLAN

L-101

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LANDSCAPE LEGEND

	METAL EDGING		D/L-501
	2\" data-bbox="210 140 300 180"/> MINUS TAN CRUSHED ROCK MULCH - 3\" data-bbox="310 140 450 180"/> depth, weed barrier beneath	30,287 sf	
	4-6\" data-bbox="210 190 300 230"/> GRAY CRUSHED ROCK MULCH - 6\" data-bbox="310 190 450 230"/> depth, weed barrier beneath	11,896 sf	
	TURF GRASS TO REMAIN - preserve and protect, patch and repair as needed	14,742 sf	A/L-501

SYMBOL	CODE	QTY	BOTANICAL / COMMON NAME	CONT	CAL
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<u>SYMBOL</u>	<u>CODE</u>	<u>QTY</u>	<u>BOTANICAL / COMMON NAME</u>	<u>CONT</u>	<u>CAR</u>
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TREES

	EX	13	Existing Tree / to Remain	-
	GH	9	Gleditsia triacanthos Imperial / Imperial Honeylocust	B & B 2"
	MS	8	Malus x Spring Snow / Spring Snow Crabapple	B & B 2"

SYMBIO

SYMBOL	CODE	QTY	DESCRIPTION / COMMON NAME	QTY
SHRUBS				
	BY	51	Berberis thunbergii / Red Torch / Red Torch Japanese Barberry	5 gal
	CR	34	Chrysothamnus nauseosus / Rubber Rabbitbrush	5 gal
	JB	45	Juniperus horizontalis / Broadmoor / Broadmoor Juniper	5 gal
	PL	43	Perovskia altiplicata / Little Spire / Little Spire Russian Sage	5 gal
	PO	35	Potentilla fruticosa / Abbotswood / Abbotswood Bush Cinquefoil	5 gal
	PP	34	Prunus besseyi / P011S / Pawnee Buttes® Sand Cherry	5 gal

GRASSES				
	MZ	48	Miscanthus sinensis 'Zebrinus' / Zebra Grass	1 gal
	PH	39	Pennisetum alopecuroides 'Hameln' / Hameln Fountain Grass	1 gal

3

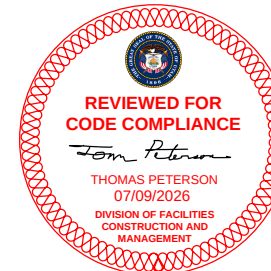
PERENNIALS				
	EM	30	Echinacea purpurea 'Magnus' / Magnus Purple Coneflower	1 gal
	NB	27	Nepeta x faassenii 'Blue Wonder' / Blue Wonder Catmint	1 gal

1.	CONTRACTOR TO VERIFY ALL CONDITIONS PERTAINING TO THIS PLAN AND REPORT ANY DISCREPANCIES IMMEDIATELY TO THE LANDSCAPE ARCHITECT.	8.	FABRIC STAPLES EVERY FIVE FEET ON CENTER IN PLANTER BED. REPAIR ALL LANDSCAPING WHERE NEW CONSTRUCTION MEETS EXISTING.
2.	THE CONTRACTOR SHALL LOCATE AND VERIFY ALL UTILITIES LINES PRIOR TO PLANTING AND SHALL REPORT ANY CONFLICTS TO THE LANDSCAPE ARCHITECT.	9.	PERFORM PERCOLATION TEST
3.	CONTRACTOR SHALL REPAIR ALL DAMAGES CAUSED BY OPERATIONS (WHICH OCCUR ON OR OFF SITE) TO THE ARCHITECTS AND OWNER'S SATISFACTION.	9.1.	SELECT FIVE (5) TYPICAL PLANTING EXCAVATIONS THROUGHTOUT SITE FOR DRAINAGE TESTING.
4.	ALL QUANTITIES SHOWN ARE APPROXIMATE AND ARE FURNISHED SOLELY FOR THE CONTRACTOR'S CONVENIENCE. THEY DO NOT NECESSARILY CORRESPOND TO BID SCHEDULE ITEMS. IN THE CASE OF ANY DISCREPANCIES, PLANS SHALL OVERRIDE THE LANDSCAPE AND BID SCHEDULE QUANTITIES. CONTRACTOR SHALL VERIFY QUANTITIES SHOWN ON THE PLANS AND BASE THEIR BID ON THE CORRECT QUANTITIES.	9.2.	FILL SELECTED EXCAVATIONS WITH WATER AND VERIFY THAT WATER DRAINS AWAY AT RATE OF 3 INCHES (75 MM) PER HOUR MINIMUM.
5.	DO NOT MAKE UNAPPROVED SUBSTITUTIONS. IF SPECIFIED LANDSCAPE MATERIAL IS NOT OBTAINABLE, SUBMIT PROOF OF NON-AVAILABILITY FROM AT LEAST FIVE SOURCES TO LANDSCAPE ARCHITECT, TOGETHER WITH PROPOSAL FOR USE OF EQUIVALENT MATERIAL FOR FINAL APPROVAL.	9.3.	IF IT DOESN'T DRAIN, SELECT THREE (3) EXCAVATIONS APPROXIMATELY 5 FEET (1 500 MM) AWAY FROM THEM NON-DRAINING EXCAVATION AND REPEAT TESTS. CONTINUE TESTING PROCESS UNTIL NON-DRAINING AREAS HAVE BEEN IDENTIFIED.
6.	LAYOUT INDIVIDUAL TREE AND PLANT LOCATIONS AND AREAS FOR MULTIPLE PLANTINGS, STAKE LOCATIONS, AND OUTLINE AREAS AND SECURE ARCHITECTS ACCEPTANCE BEFORE START OF PLANTING WORK. MAKE MINOR ADJUSTMENTS AS MAY BE DIRECTED.	9.4.	WITHIN EXCAVATIONS LOCATED IN IDENTIFIED NON-DRAINING AREAS, AUGER 5 INCHES (125 MM) DIAMETER HOLE 4 FEET (1 200 MM) DEEP IN LOW POINT OF EACH EXCAVATION AND FILL WITH TAMPED PLANTING MIX.
7.	INSTALL GEOTEXT PP-5 WEED BARRIER UNDER MULCH. FABRIC SHALL BE INSTALLED AFTER PRE-EMERGENT HAS BEEN APPLIED. CUT AN "X" SHAPE IN WEED BARRIER FOR PLANTS AND STAPLE FOLDING DOWN INTO SOIL. USE	10.	INFORM LANDSCAPE ARCHITECT OF CONDITIONS OF POOR DRAINAGE.
		11.	LANDSCAPE CONTRACTOR SHALL COORDINATE AND ADJUST PLANT PLACEMENT WITH SPRINKLERS. PLANTS SHALL NOT BE PLACED WITHIN 1 INCHES OF A SPRINKLER HEAD.
		12.	ALL EXISTING TREES TO REMAIN SHALL BE PROPERLY PROTECTED DURING CONSTRUCTION. PLACE CONSTRUCTION FENCE AROUND THE TREE AT THE CANOPY DROP LINE. AVOID ANY COMPACTION OF THE PROTECTED AREA OF TREE ROOTS. PROVIDE WATER TO THE TREES TO MAINTAIN TREE HEALTH.
		13.	SEE L-500 SERIES SHEETS FOR LANDSCAPE DETAILS.

0 20 40 60 feet

SCALE: 1" = 20'

BID SET

PERRY REST AREA - LANDSCAPE
IMPROVEMENTS
NORTHBOUND I-15
PERRY, UTAH 84302
UTAH DEPARTMENT OF TRANSPORTATION

MARK:

DATE:

PROJECT #:

824308

DRAWN BY:

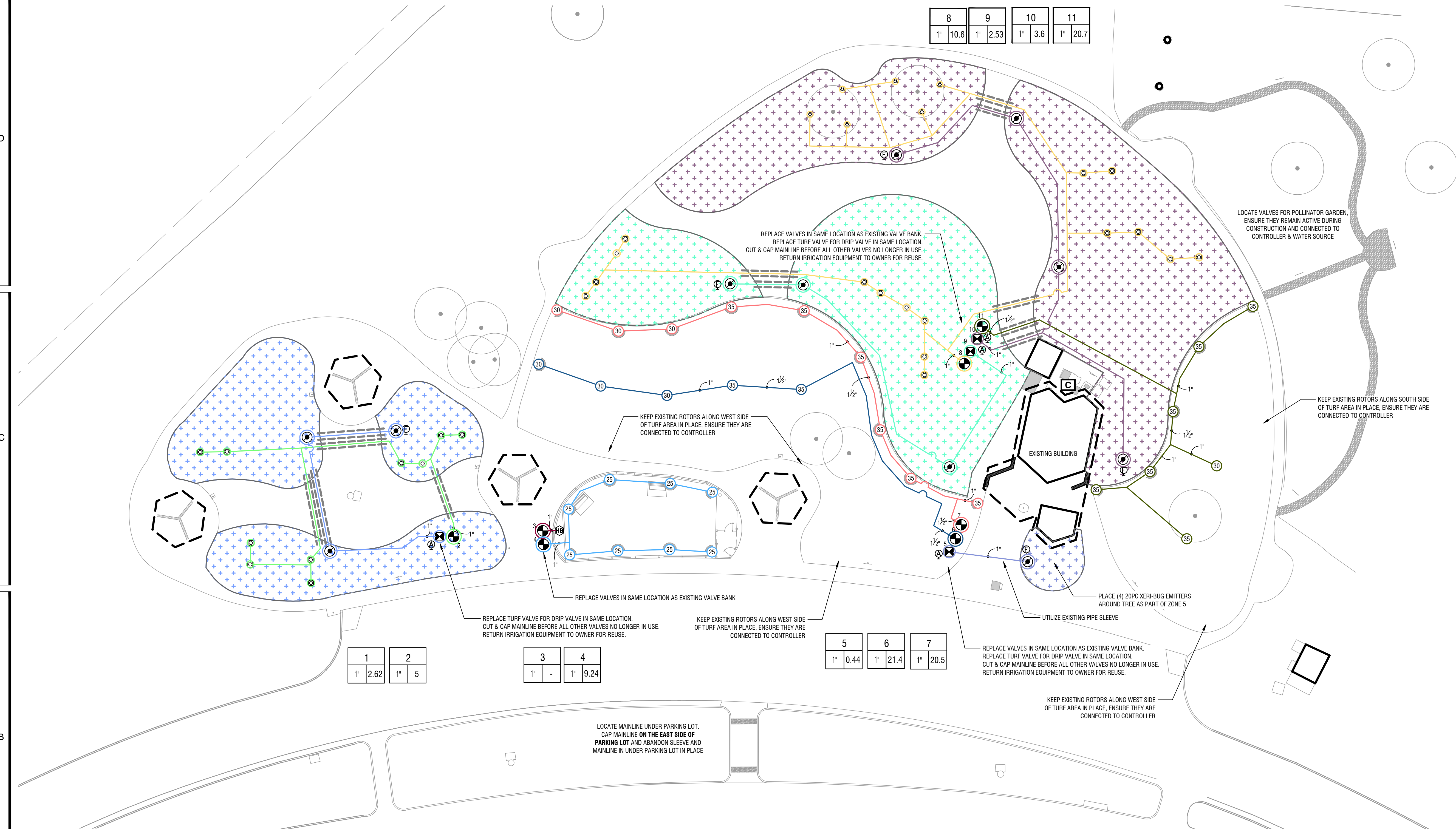
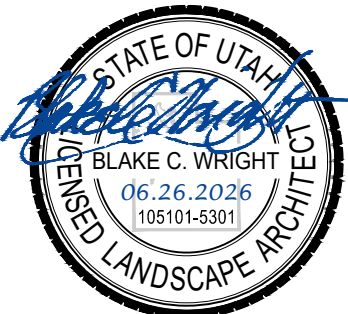
K. ALTHOUSE

CHECKED BY:

B. WRIGHT

ISSUED:

06.26.2026



IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI	GPM	RADIUS
	Rain Bird RWS-M-B-C 1400 Series Mini Root Watering System with 4in. diameter x 18in. long with locking grate, semi-rigid mesh tube and Rain Bird 1401 0.25 GPM or 1402 0.5 GPM bubbler as indicated. With Check Valve.	32	20		
	Rain Bird 5004-PC-MPR 25 Turf Rotor, 4in. Pop-Up, Plastic Riser, Matched Precipitation Rotor (MPR nozzle), Arc and Radius as per Symbol, 25 ft=red, 30 ft=green, 35ft=beige.	8	25	21'	
	Rain Bird 5004-PC-MPR 30 Turf Rotor, 4in. Pop-Up, Plastic Riser, Matched Precipitation Rotor (MPR nozzle), Arc and Radius as per Symbol, 25 ft=red, 30 ft=green, 35ft=beige.	7	25	26'	
	Rain Bird 5004-PC-MPR 35 Turf Rotor, 4in. Pop-Up, Plastic Riser, Matched Precipitation Rotor (MPR nozzle), Arc and Radius as per Symbol, 25 ft=red, 30 ft=green, 35ft=beige.	14	25	29'	
	Rain Bird XCZ-100-LC Wide Flow Drip Control Kit, for Light Commercial Uses. 1in. PEB Valve, with 1in. Pressure Regulating 40psi Basket Filter. 0.3-20 GPM.	4			
	Pipe Transition Point in Drip Box Pipe transition point from PVC lateral to drip tubing with riser in 6in. drip box.	11			
	Rain Bird MDCFPCAP Dripline Flush Valve purple cap in compression fitting coupler. For non-potable water use.	5			
	Rain Bird ARV050 1/2in. Air Relief Valve, made of quality rust-proof materials, with a 6in. drip valve box (SEB 7XB emitter box). Use with installation below soil. The valve will allow air to escape the pipeline, thus preventing water hammer or blockage.	4			

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	Rain Bird PEB 1in., 1-1/2in., 2in. Plastic Industrial Remote Control Valve. Low Flow Operating Capability, Globe Configuration.	7
	Hose Bibb Arrowhead Brass Hose Bib on Galvanized Stand Pipe	1
	Existing Controller	1
	Irrigation Lateral Line: PVC Schedule 40	2,182 lf
	Pipe Sleeve: PVC Schedule 40	234.0 lf

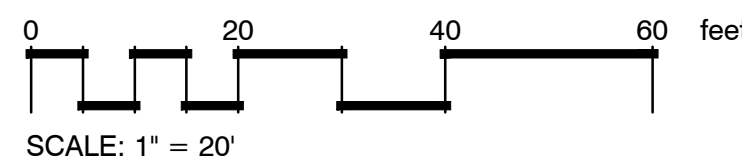
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	Area to Receive Drip Emitters Rain Bird XB-PC Single Outlet, Pressure Compensating Drip Emitters. Flow rates of 05PC 0.5 GPH=blue, 10PC 1.0 GPH=black, and 20PC 2.0 GPH=red. Comes with a self-piercing barb inlet x barb outlet. Emitter Notes: 05PC emitters (2 assigned to each 1 gal plant) 10PC emitters (2 assigned to each 5 gal plant)	25,281 sf 278 484
	Valve Callout # Valve Number # Valve Flow # Valve Size	

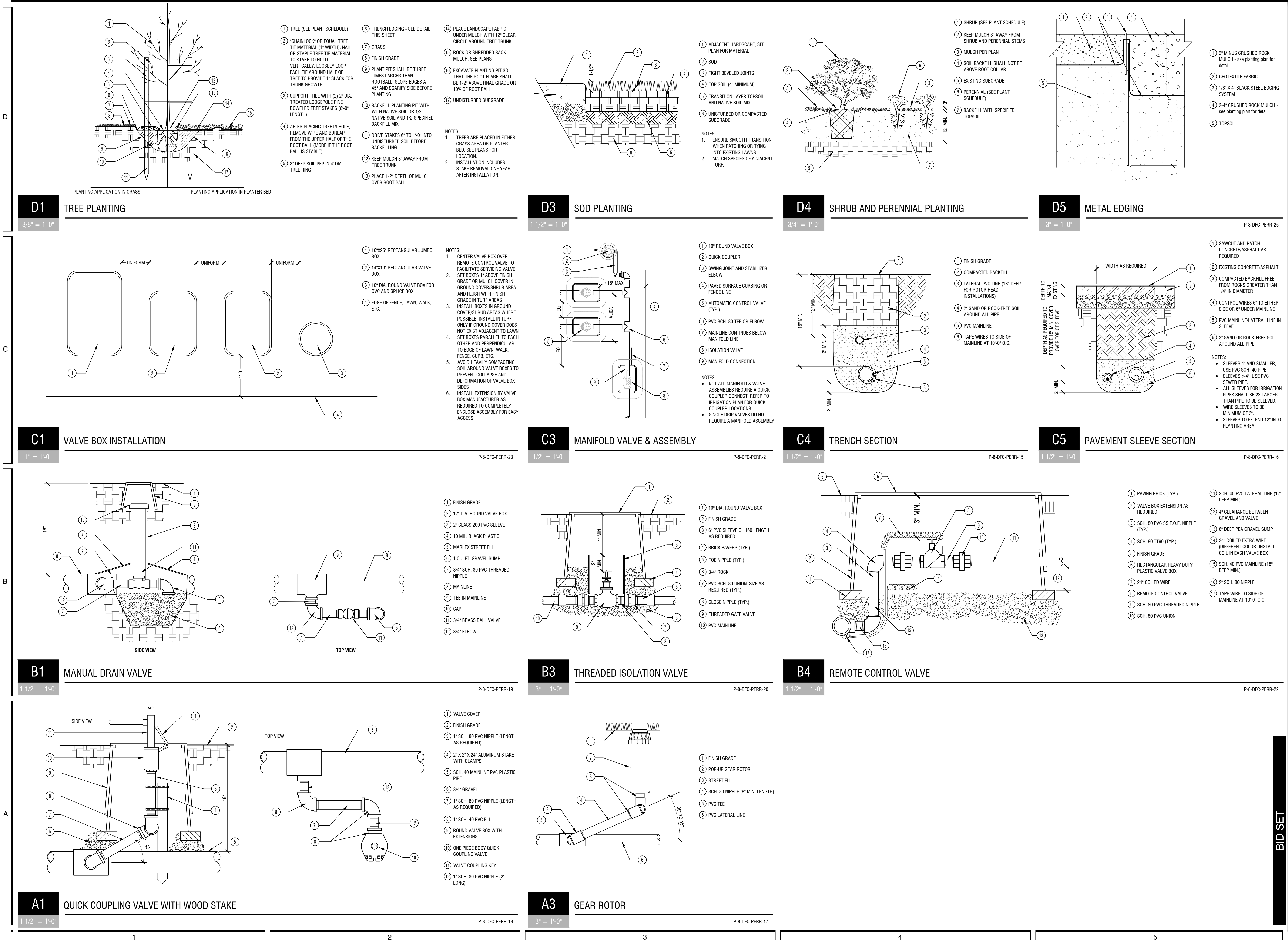
VALVE SCHEDULE

NUMBER	MODEL	SIZE	TYPE	GPM	PSI	PRECIP
1	Rain Bird XCZ-100-LC	1"	Area for Drip Emitters	2.62	17.1	0.2 in/h
2	Rain Bird PEB	1"	Bubbler	5	22.2	1.7 in/h
3	Rain Bird PEB	1"	Turf Rotor	9.24	27.3	0.77 in/h
4	Rain Bird PEB	1"	Area for Drip Emitters	0.44	17.0	0.42 in/h
5	Rain Bird PEB	1"	Turf Rotor	21.35	31.2	0.62 in/h
6	Rain Bird PEB	1"	Turf Rotor	20.48	30.6	0.72 in/h
7	Rain Bird PEB	1"	Bubbler	10.61	23.2	0.19 in/h
8	Rain Bird XCZ-100-LC	1"	Area for Drip Emitters	2.53	17.2	0.18 in/h
9	Rain Bird XCZ-100-LC	1"	Area for Drip Emitters	3.6	17.3	0.19 in/h
10	Rain Bird PEB	1"	Turf Rotor	20.65	30.1	0.78 in/h
11	Rain Bird PEB	1"	Turf Rotor			

IRRIGATION NOTES

- CONTRACTOR TO VERIFY ALL CONDITIONS PERTAINING TO THIS PLAN AND REPORT ANY DISCREPANCIES IMMEDIATELY TO THE LANDSCAPE ARCHITECT.
- CONTRACTOR SHALL OBTAIN ALL PERMITS AND PAY REQUIRED FEES TO ANY GOVERNMENTAL AGENCY HAVING JURISDICTION OVER THE WORK. INSPECTIONS REQUIRED BY LOCAL ORDINANCES DURING CONSTRUCTION SHALL BE ARRANGED AND CONDUCTED BY THE CONTRACTOR.
- BEFORE ANY TRENCHING, EXCAVATION OR DIGGING BELOW THE SURFACE FOR ANY REASON IS BEGUN, THE CONTRACTOR SHALL HAVE THE AREA "BLUE STAKED" IN ORDER TO DETERMINE AS CLOSE AS POSSIBLE THE LOCATIONS OF ALL UNDERGROUND UTILITIES. SHOULD UTILITIES NOT SHOWN ON THE PLANS BE FOUND DURING EXCAVATIONS THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE AND LANDSCAPE ARCHITECT.
- THE DESIGN PRESSURE FOR THE IRRIGATION SYSTEM IS 65 PSI AT THE FARTHEST ROTOR HEAD. CONTRACTOR SHALL VERIFY THE AVAILABLE STATIC PRESSURE AND REPORT ANY DISCREPANCIES TO THE OWNER'S REPRESENTATIVE AND LANDSCAPE ARCHITECT.
- IRRIGATION DESIGN IS DIAGRAMMATIC. PIPING, IRRIGATION VALVES AND OTHER IRRIGATION EQUIPMENT ARE OFTEN SHOWN FOR CLARITY IN AREAS ADJACENT TO LOCATIONS WHERE THEY WILL BE INSTALLED. IRRIGATION LINES AND EQUIPMENT MAY BE SHOWN ON PAVEMENT, INSIDE BUILDINGS OR ACROSS PROPERTY LINES. THE CONTRACTOR SHALL PLACE ALL IRRIGATION LINES, VALVES, ETC. IN PLANTING AREAS AND ON THE PROPERTY WHEN POSSIBLE.
- INSTALL A PRESSURE REGULATOR IF STATIC PRESSURE IN THE SERVICE LINE EXCEEDS THE IRRIGATION SYSTEM OPERATING DESIGN PRESSURE. SIZE AND INSTALL PRESSURE REGULATOR ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
- PROTECT EXISTING TREES AND THEIR ROOT SYSTEMS. ROUTE IRRIGATION LINES AS NECESSARY TO MINIMIZE THE CUTTING OF TREE ROOTS.
- THE CONTRACTOR SHALL CONDUCT WORK IN SUCH A MANNER TO PROTECT ALL SITE CONDITIONS AND UTILITIES TO REMAIN FROM DAMAGE. WHEN OCCURS, THE CONTRACTOR SHALL REPAIR THE DAMAGE AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTINUED WATERING OF ALL AREAS AFFECTED BY CONSTRUCTION. THIS CAN BE COMPLETED BY HAND WATERING, THE USE OF TEMPORARY IRRIGATION SYSTEMS, OR THE CONTINUED OPERATION OF EXISTING SYSTEMS NOT DISTURBED BY CONSTRUCTION.
- ALL LINE SIZES SHOWN ARE FOR IRRIGATION PIPE. SEE SPECIFICATIONS AND DETAILS FOR SLEEVE SIZES.
- SLEEVE CONTROL WIRES IN A 2 INCH CONDUIT NEXT TO, OR UNDER, IRRIGATION MAINLINE AS SHOWN IN DETAILS. CONTROL WIRES NOT SLEEVED SHALL FOLLOW MAINLINE AND BE BUNDLED EVERY 10 FEET.
- INSTALL MANUAL DRAINS AT ALL LOW POINTS ON THE MAINLINE.
- ADJUST ALL RADII ON SPRINKLERS TO NOT SPRAY ONTO BUILDINGS, WALLS, WALKS, SIGNS, OR FENCES.
- LANDSCAPE CONTRACTOR TO COORDINATE PLANT PLACEMENT WITH SPRINKLERS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING PROPER COVERAGE OF ALL IRRIGATED AREAS.
- CONNECT ALL WIRES INTO EXISTING CONTROLLER.
- REBUILD, RECONFIGURE AND ADJUST THE IRRIGATION SYSTEM TO PROVIDE 100% COVERAGE IN TURF AREAS. THE INSTALLED SYSTEM SHALL NOT SPRAY ONTO BUILDINGS, WALLS, WALKS, SIGNS, OR FENCES.
- FIELD VERIFY HEAD SPACING IN AREAS WHERE NEW AND OLD IRRIGATION SYSTEMS JOIN. ADJUST IRRIGATION SYSTEM HEAD SPACING TO PROVIDE COVERAGE AS REQUIRED IN SPECIFICATIONS.
- RECONNECT THE IRRIGATION CONTROL WIRES AS REQUIRED TO CREATE AN OPERATIONAL SYSTEM. PUT ALL WIRE SPLICES IN SPLICE BOXES OR IN REMOTE CONTROL BOXES.
- SEE SHEET L-501 AND L-502 FOR LANDSCAPE DETAILS.





DESIGN WEST

LOGAN, UTAH
(435) 752-7031
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(801) 539-8221

DCFM APPROVAL

REVIEWED FOR CONE COMPLIANCE

THOMAS PETERSON
PROFESSOR OF LANDSCAPE ARCHITECTURE

PERRY REST AREA - LANDSCAPE IMPROVEMENTS

NORTHBOUND I-15
PERRY, UTAH 84302

UTAH DEPARTMENT OF TRANSPORTATION

MARK: DESCRIPTION: DATE: PROJECT #: 824308
DRAWN BY: K. ALTHOUSE
CHECKED BY: B. WRIGHT
ISSUED: 06.26.2026

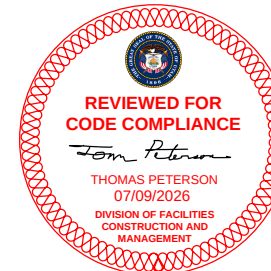
STATE OF UTAH
BLAKE C. WRIGHT
06.26.2026
(95191-5301)

LANDSCAPE ARCHITECT

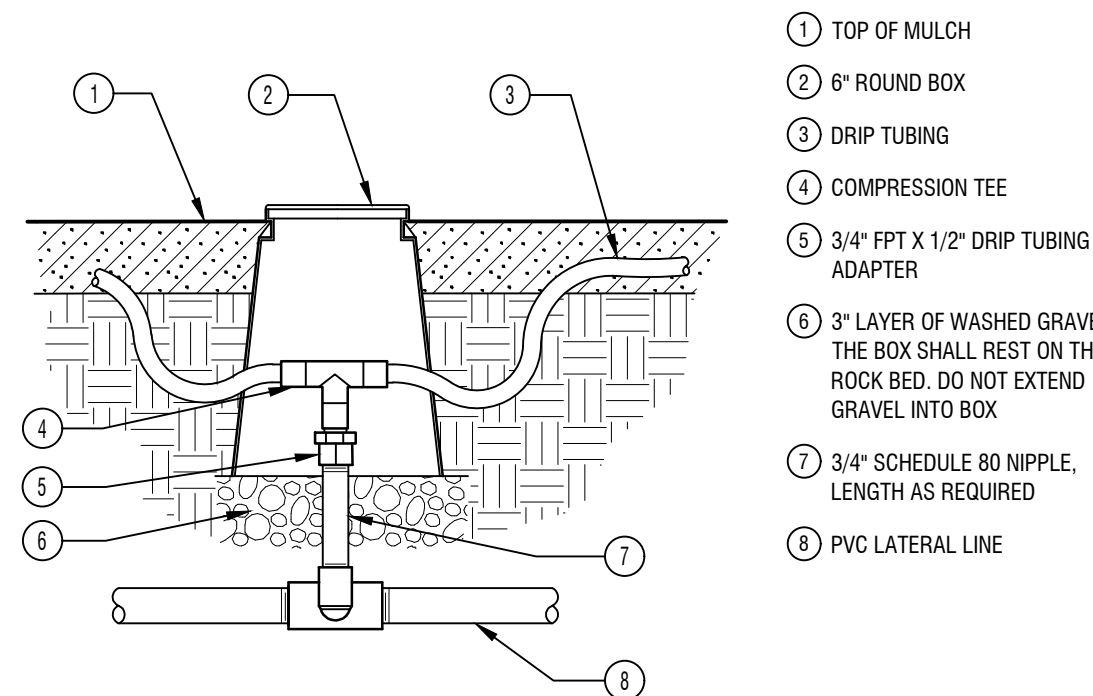
LANDSCAPE DETAILS

L-501

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PERRY REST AREA - LANDSCAPE
IMPROVEMENTS
NORTHBOUND I-15
PERRY, UTAH 84302
UTAH DEPARTMENT OF TRANSPORTATIONMARK:
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L-502



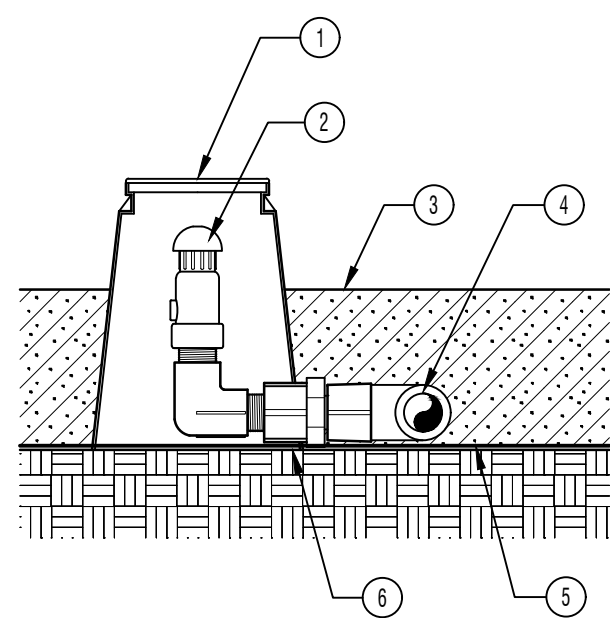
B5

DRIPLINE CONNECTION IN BOX

1 1/2" = 1'-0"

P-8-DFC-PERR-30

BID SET

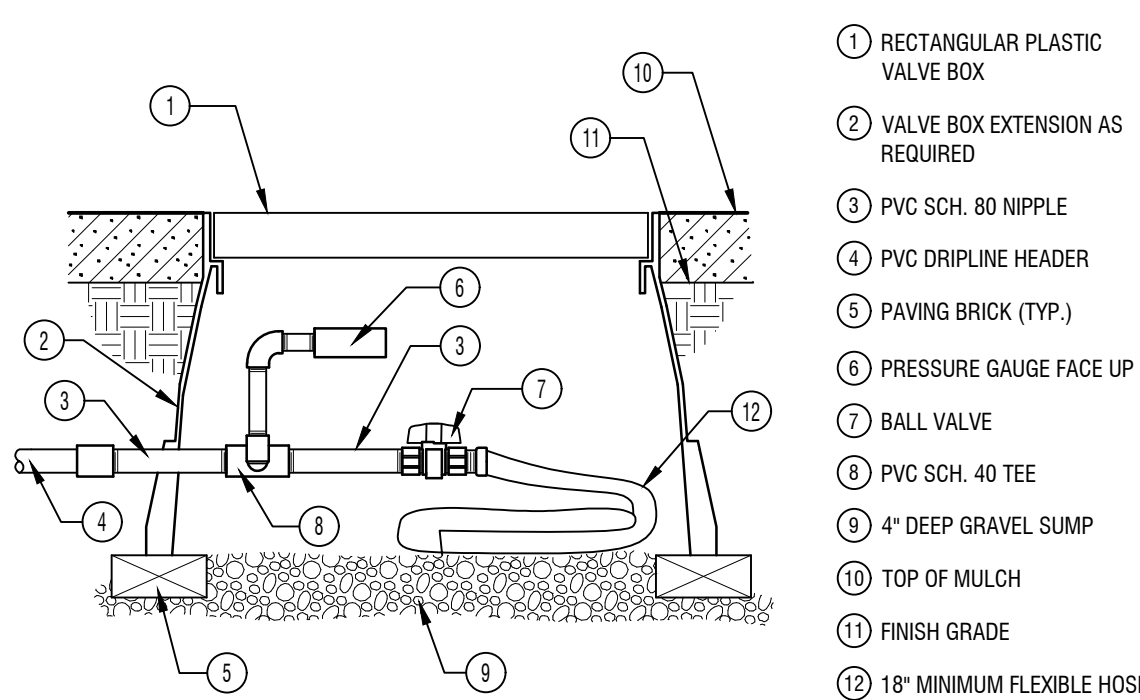


A5

DRIPLINE AIR RELEASE VALVE

1 1/2" = 1'-0"

P-8-DFC-PERR

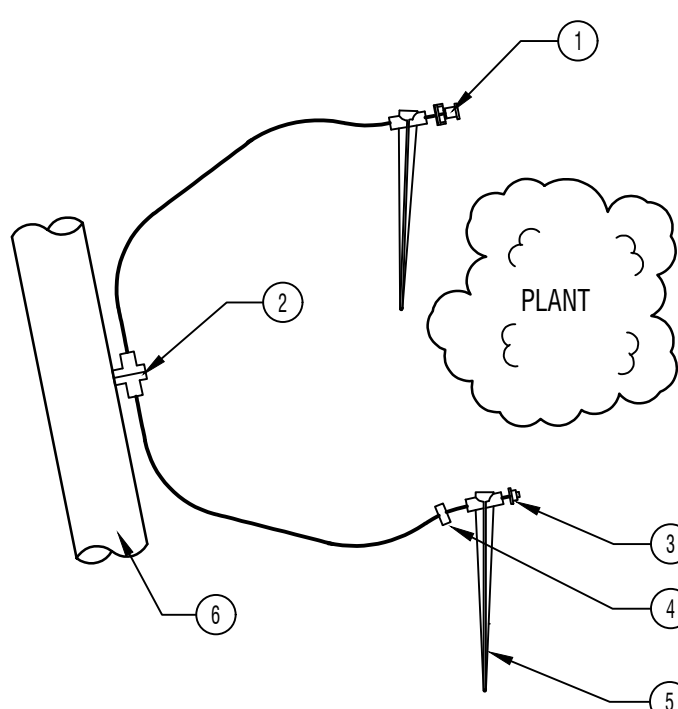


A4

DRIPLINE FLUSHING VALVE

1" = 1'-0"

P-8-DFC-PERR-11

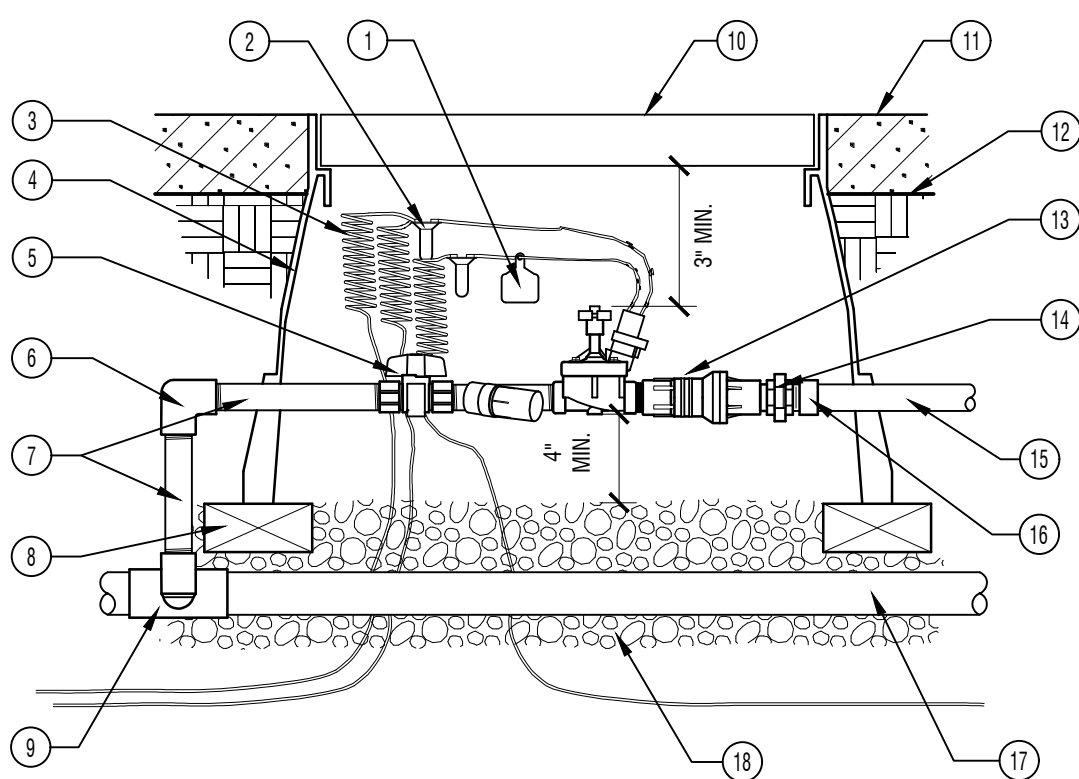


A3

DRIP EMITTERS AROUND PLANT

6" = 1'-0"

P-8-DFC-PERR-09



A1

DRIP REMOTE CONTROL VALVE

1 1/2" = 1'-0"

P-8-DFC-PERR-14

- 1 VALVE ID TAG
- 2 WATER PROOF CONNECTORS
- 3 24" COILED WIRE (TYP.)
- 4 VALVE BOX EXTENSION AS REQUIRED
- 5 BALL VALVE
- 6 SCH. 80 PVC ELL
- 7 SCH. 80 PVC NIPPLE (LENGTH AS REQUIRED)
- 8 PAVING BRICK (TYP.)
- 9 SCH. 40 PVC TEE OR ELL AND SCH. 80 PVC NIPPLE (2" LENGTH, HIDDEN)
- 10 RECTANGULAR HEAVY DUTY PLASTIC VALVE BOX
- 11 TOP OF MULCH
- 12 FINISH GRADE
- 13 DRIP IRRIGATION ZONE ASSEMBLY
- 14 SCH. 80 PVC NIPPLE AND UNION
- 15 PVC LATERAL
- 16 SCH. 40 PVC MALE ADAPTER
- 17 MAINLINE
- 18 6" DEEP GRAVEL SUMP

2

1