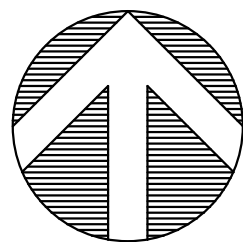
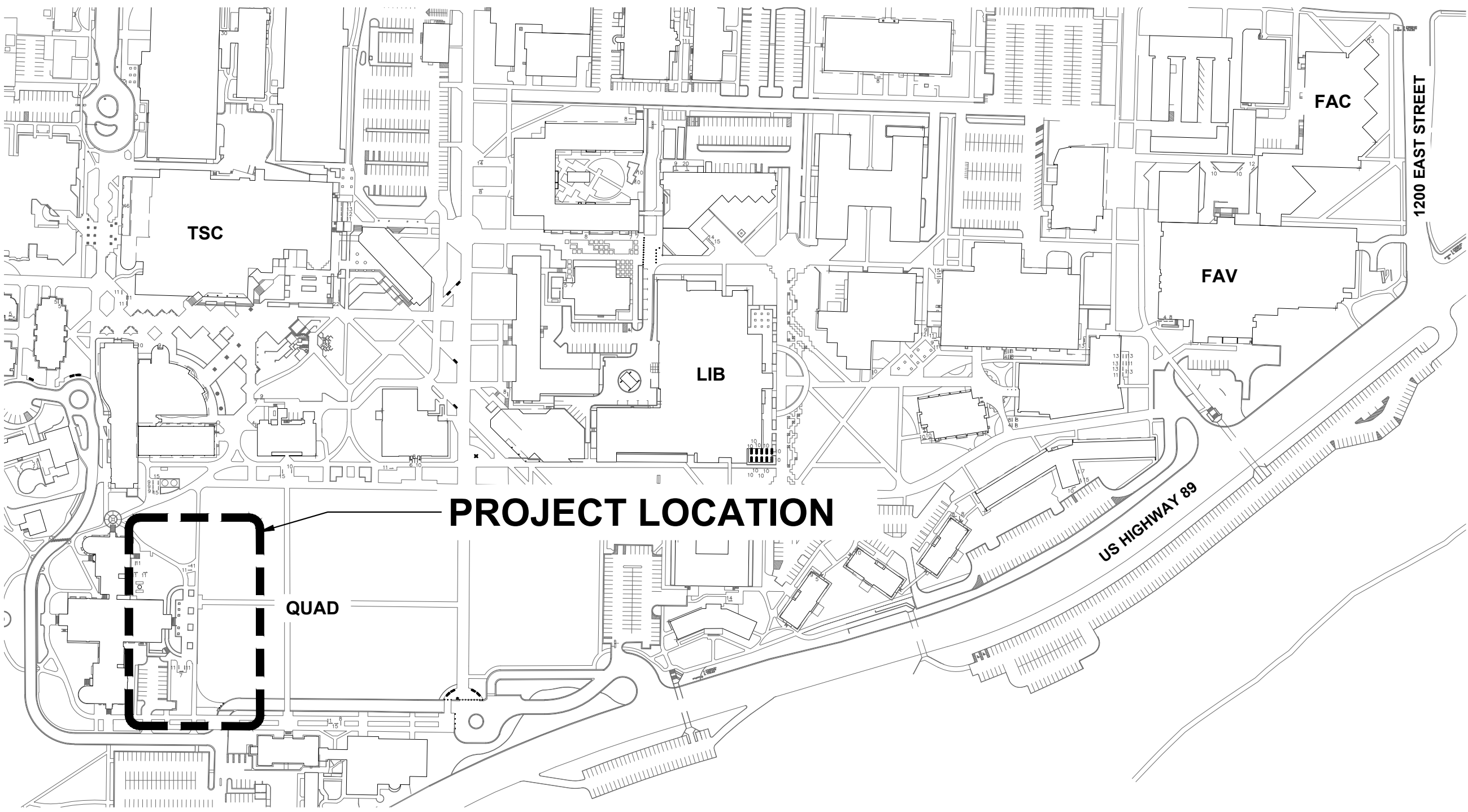


Utah State University

QUAD PORTAL - OLD MAIN



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INDEX OF SHEETS:	
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LANDSCAPE DRAWINGS	
sheet name	sheet #
PLANTING PLAN	L100
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COVER
SHEET

QUAD PORTALS
UTAH STATE UNIVERSITY
LOGAN, UTAH 84321



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95 Golf Course Rd.
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DATE:
29 SEPTEMBER 2021
SCALE:
N/A
DESIGN BY:
J. MAUGHAN
CHECKED BY:
L. ANDERSON
APPROVED BY:
L. ANDERSON
PROJECT NUMBER:
690-2101
SHEET:

G001

Engineering

Surveying

Planning

Landscape Architecture

Visualization

BID SET

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PRE-CONSTRUCTION & EROSION CONTROL NOTES:

1. **GENERAL INFORMATION**
EROSION CONTROL NOTES AND SYMBOLS SHOWN ON THE PLANS ARE DIAGRAMMATIC AND ARE INTENDED TO BE VIEWED AS A GUIDELINE FOR LOCATING AND IMPLEMENTING EROSION CONTROL BEST MANAGEMENT PRACTICES (BMPs).

IT IS THE CONTRACTORS RESPONSIBILITY TO PREPARE THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) & FINALIZE THE TYPE AND LOCATION OF ALL BMPs IN ORDER TO MEET THE REGULATIONS OF THE STATE OF UTAH. IT IS THE CONTRACTORS RESPONSIBILITY TO SUBMIT NOTICE OF INTENT (NOI) PRIOR TO ANY EARTH DISTURBING ACTIVITIES.

THE PREPARATION OF A STORMWATER POLLUTION PREVENTION PLAN IS REQUIRED TO BE COMPLETED BY THE CONTRACTOR. THE CONTRACTOR IS REQUIRED TO REVIEW OPERATIONS PLANS WITH UTAH STATE'S MS4 PROGRAM COORDINATOR PRIOR TO ANY EARTH DISTURBING ACTIVITIES.

PROGRAM COORDINATOR: **LANCE MAUGHAN (435)797-7309**

OWNER/CONTRACTOR IS RESPONSIBLE TO OBTAIN A UPDES STORMWATER DISCHARGE PERMIT AND IS RESPONSIBLE FOR DEVELOPING AND IMPLEMENTING A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) AS PER THE REQUIREMENTS OF THE UPDES STORMWATER CONSTRUCTION PERMIT (NOI PERMIT # _____).
2. **LIMITS OF DISTURBANCE**
THE LIMIT OF DISTURBANCE LINE SHOWN ON THIS DRAWING IS FOR MAJOR DEMOLITION AND EXCAVATION OF CIVIL RELATED ELEMENTS. IT IS ANTICIPATED THAT THERE MAY BE SOME ADDITIONAL DISTURBANCE OUTSIDE OF THESE LIMITS.

THE CONTRACTOR IS RESPONSIBLE FOR ENSURING EROSION CONTROL BMPs ARE IMPLEMENTED FOR ALL EARTH DISTURBING ACTIVITIES, AND THAT DISCHARGE OF SEDIMENT LADEN RUN-OFF IS NOT PERMITTED.
3. **STREET CLEANING:**
IF SEDIMENT IS TRANSPORTED ON TO THE STREET, IT SHALL BE REMOVED ON A DAILY BASIS. SEDIMENT SHOULD BE SHOVELED AND/OR SWEEPED FROM THE ASPHALT OR CONCRETE SURFACE AND DISPOSED OF IN A MANNER, WHICH PREVENTS CONTAMINATION WITH STORMWATER OR SURFACE WATER (E.G., COVERED SOIL STOCKPILE). IN ADDITION, A STREET SWEEPER MAY BE USED TO MAINTAIN CLEAN HARDSCAPE AREAS ON AN AS-NEEDED BASIS.
4. **CONSTRUCTION ENTRANCES & VEHICLE WASH-DOWN AREAS:**
CONTRACTOR TO ENSURE CONTROL OF SEDIMENT AT THE CONSTRUCTION EXIT POINT.

THE STABILIZED CONSTRUCTION ENTRANCE CONSISTS OF A COBBLE PAD (STABILIZED AREA) LINED BELOW WITH FILTER FABRIC, GRADED TO DRAIN AND CONNECT TO AN ADJACENT DRAINAGE SWALE AND CONVEY WATER TO A TEMPORARY SEDIMENTATION BASIN TO COLLECT WASH WATER FOR SETTLEMENT OF DEBRIS. WASH WATER MAY BE RE-USED AFTER SETTLING, INFILTRATED ON SITE, OR TRANSPORTED OFF SITE FOR DISPOSAL. ACCUMULATED SEDIMENTS MAY BE REUSED ON SITE OR DISPOSED OF OFF SITE.
5. **CONCRETE CLEANOUT BASIN:**
A LINED BASIN SHALL BE PLACED AS NECESSARY FOR ALL CONCRETE DELIVERY VEHICLES & THEY SHALL BE REQUIRED TO WASH OUT ONLY INTO THE BASIN. CONTRACTOR SHALL REMOVE WASTE AND DISPOSE OF IN A LAWFUL MANNER AS NECESSARY.

CONCRETE WASH OUT MAY NOT BE DISPOSED OF ON-SITE OR ALLOWED TO INFILTRATE.
6. **DUST CONTROL:**
SOILS, GRAVELS, AND ETC., WHETHER STOCKPILED OR PLACED, SHALL BE KEPT COVERED AND/OR ADEQUATELY MOIST TO PREVENT AIRBORNE DUST FROM LEAVING THE SITE. ALL CONSTRUCTION AREAS AND EXISTING PAVED AREAS SHALL BE KEPT ADEQUATELY MOIST TO PREVENT AIRBORNE DUST FROM LEAVING THE SITE.
7. **DRAIN INLET PROTECTION:**
ALL EXISTING STORM DRAIN INLETS, SUMPS AND STORM DRAIN PIPES WITHIN THE PROJECT AREA OR WHICH MAY RECEIVE RUNOFF FROM THE PROJECT AREA SHALL BE PROTECTED ON-SITE. INLET PROTECTION TO BE INSTALLED AND APPROVED/INSPECTED PRIOR TO ANY EARTH DISTURBING ACTIVITIES.

ALL STORM DRAINS, SUMPS, AND STORM DRAIN PIPES THAT ARE INSTALLED OR MADE OPERABLE DURING CONSTRUCTION SHALL BE PROTECTED TO PREVENT STORM WATER FROM ENTERING WITHOUT FIRST BEING FILTERED OR TREATED TO REMOVE SEDIMENT. METHOD OF PROTECTION SHALL BE AS SHOWN OR APPROPRIATE TO NEED.
8. **PERIMETER CONTROL**
SILT FENCING:
SILT FENCING or OTHER SUITABLE PERIMETER CONTROL SHALL BE INSTALLED IN LIMITED LOCATIONS ALONG THE PROJECT LIMIT LINE, ESPECIALLY AT LOW AREAS AND OTHER AREA WHERE STORMWATER DISCHARGES FROM THE SITE.

IT IS THE CONTRACTORS RESPONSIBILITY TO WALK THE PERIMETER OF THE CONSTRUCTION SITE AND TO DETERMINE ALL APPROPRIATE LOCATIONS FOR SILT FENCING. SILT FENCING MAY BE COORDINATED AND INSTALLED IN CONJUNCTION WITH OTHER BMPs TO PREVENT RUNOFF FROM LEAVING THE SITE DURING CONSTRUCTION.

SANDBAGGING:
SANDBAGS MAY BE REQUIRED TO PREVENT RUNOFF ON HARDSCAPE AREAS THAT MAY NOT BE REMOVED AS PART OF DEMOLITION, AND DO NOT ALLOW FOR PROPER INSTALLATION OF SILT FENCE. SANDBAGS MAY BE USED ON EXISTING CONCRETE, ASPHALT, OR CURB AND GUTTER AREAS. SANGBAGS ARE TO BE USED TO ENSURE NO UNTREATED RUNOFF ESCAPES THE SITE.
9. **TEMPORARY SWALE**
A TEMPORARY SWALE MAY BE INSTALLED PROVIDING CONVEYANCE FROM THE CONSTRUCTION WASHDOWN AREA TO A TEMPORARY SEDIMENTATION BASIN LOCATED ON-SITE. THE SWALE SHALL BE SIZED AS NECESSARY TO MEET THE NEED, BUT SHALL NOT EXCEED 4' WIDE AND 6" DEEP. THE SWALE SHALL BE INSTALLED IN CONJUNCTION WITH THE OTHER SELECTED BMPs TO ENSURE NO UNFILTERED RUNOFF LEAVES THE SITE.
10. **TEMPORARY SEDIMENTATION BASIN:**
A TEMPORARY SEDIMENTATION BASIN MAY BE USED TO ALLOW SEDIMENT TO FALL OUT OF RUNOFF FROM STORM EVENTS AND FROM THE WASHOUT AREA AND OTHER AREAS ON SITE WHERE RUNOFF IS NOT CONTAINED AND IS LIKELY TO CONTAIN SEDIMENT.
11. **CHECK DAM:**
CONTRACTOR TO PROVIDE A CHECK DAM AS SHOWN ON THE PLANS WITHIN THE EXISTING ROADWAY DITCH/SWALE. CHECK DAMS TO BE CONSTRUCTED PER THE STORM WATER POLLUTION PREVENTION PLAN AND INSTALLED NEAR THE LOCATIONS SHOWN ON PLAN OR AT A MINIMUM SPACING OF 500 FEET.
12. **INSTALLATION SEQUENCING:**
INLET PROTECTION, TEMPORARY SEDIMENT BASINS, SILT FENCE, SANDBAGS, AND OTHER BMPs INTENDED TO TRAP SEDIMENT ON SITE SHALL BE INSTALLED BEFORE LAND-DISTURBING ACTIVITIES TAKE PLACE. TEMPORARY SWALE/CONVEYANCE AND STABILIZED CONSTRUCTION ACCESS AND WASH-DOWN AREAS SHOULD BE CREATED IMMEDIATELY UPON INITIAL REMOVAL OF EXISTING MATERIAL AS A PRELIMINARY STEP IN THE SITE DEMOLITION PROCESS. INLET PROTECTION MEASURES SHOULD REMAIN IN PLACE UNTIL CONSTRUCTION IS COMPLETE AND ALL FINISH GRADE MATERIALS HAVE BEEN PLACED.
13. **OTHER SELECTED BMPS:**
AS DETERMINED BY CONTRACTOR.

DEMOLITION GENERAL NOTES:

1. THE CONTRACTOR SHALL REVIEW DEMOLITION PLAN AND COMPARE WITH EXISTING CONDITIONS. THE CONTRACTOR SHALL RESOLVE ANY DISCREPANCIES BETWEEN THE DEMOLITION PLAN AND EXISTING CONDITIONS WITH UNIVERSITY PERSONNEL, 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 TO THE UNIVERSITY.
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. ALL EXISTING TREES TO REMAIN SHALL BE IRRIGATED AND PROTECTED WITH A TEMPORARY FENCE PLACED AT THE DRIP LINE OF THE TREE FOR THE DURATION OF ALL CONSTRUCTION ACTIVITIES. CONTRACTOR TO COORDINATE TREE PROTECTION WITH LANDSCAPE (L) DRAWINGS.
9. CONTRACTOR TO WORK WITH USU LANDSCAPE OPERATIONS AND MAINTENANCE (LOAM) TO CLEARLY IDENTIFY ROLES AND RESPONSIBILITIES FOR TREE REMOVAL & WORK UNDER DRIP LINES AND TREE CARE DURING CONSTRUCTION.
10. USU AND BLUE STAKES DIGGING PERMIT REQUIRED.
11. CONTRACTOR TO LEGALLY DISPOSE OF ALL WASTE AND DEBRIS.
12. RECYCLE ASPHALT, CONCRETE, METALS, ETC, WHERE POSSIBLE. TREES AND OTHER VEGETATION TO GO TO LOGAN GREEN WASTE FACILITY.
13. CONTRACTOR TO COORDINATE ALL EXISTING ROOF DRAIN LOCATIONS (IF IMPACTED AND APPLICABLE) AND PROVIDE FOR NECESSARY ROOF DRAINAGE AND DISCHARGE AS NECESSARY DURING CONSTRUCTION

TREE PROTECTION NOTES:

1. WHEN REMOVING EXISTING CONCRETE FROM WITHIN ROOT PROTECTION ZONE, DO NOT STRIP EXISTING SOIL BELOW CONCRETE.
2. ROOT PROTECTION ZONE TO BE FENCED OFF USING ORANGE CONSTRUCTION FENCING. PORTIONS OF ROOT ZONE UNABLE TO BE PROTECTED BY FENCING DUE TO ACCESS ISSUES MUST BE PROTECTED WITH STRUCTURAL GRID AND APPROVED BY USU LOAM PRIOR TO PLACEMENT OF GRID.
3. UNDER NO CIRCUMSTANCES ARE ANY FORM OF CONSTRUCTION MATERIALS, EQUIPMENT OR OTHER RELATED ITEMS TO BE PARKED, STORED OR PLACED WITHIN THE ROOT PROTECTION ZONE.
4. UPON FINAL LANDSCAPING, ROOT PROTECTION ZONE MAY BE ALTERED DUE TO REQUIRED DESIGN ELEMENTS. AVOID CURB AND EDGE TRENCHING INTO THE ACTIVE ROOT ZONE. ALL TRENCHING IN ROOT ZONE TO BE COMPLETED BY USU AND AIR SPADE.
5. ANY REQUIRED UTILITY OR PIPE INSTALLATIONS TO BE BORED BELOW ACTIVE ROOT ZONE, APPROXIMATELY 3 FEET IN DEPTH. VERIFY ACTIVE ROOT ZONE DEPTH PRIOR TO BORING AND INFORM LANDSCAPE ARCHITECT OF FINDINGS.
6. PRIOR TO FINAL LANDSCAPE/HARDSCAPE INSTALLATION, DEEP FERTILIZE ROOT ZONE PROTECTION AREA. INJECT FERTILIZER ON 3'X3' GRID THROUGHOUT ROOT PROTECTION ZONE.
7. FINAL SOIL/MULCH TREATMENTS TO INCLUDE 4 INCHES OF MINI-BARK; PLACED DIRECTLY ON TOPSOIL WITHIN THE ACTIVE ROOT ZONE

LAYOUT 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, PERSONNEL AND CONSTRUCTION STAKING 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 A COMPREHENSIVE TRAFFIC CONTROL PLAN WHICH SHALL BE SUBMITTED TO AND APPROVED BY USU PRIOR TO COMMENCEMENT OF WORK.
8. THE STANDARDS AND SPECIFICATIONS GOVERNING THIS PROJECT SHALL BE THE CURRENT UTAH STATE UNIVERSITY CONSTRUCTION STANDARDS AND SPECIFICATIONS, LATEST REVISION. ALL WORK SHALL BE IN CONFORMANCE WITH THESE STANDARDS AND SPECIFICATIONS. USU STANDARDS AND SPECIFICATION MAY BE FOUND AT THE FOLLOWING WEB PAGE.
<http://www.usu.edu/facilities/planning/designreq.cfm>
9. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE APPROPRIATE USU PERSONNEL WHEN CONSTRUCTION COMMENCES IN THE VICINITY OF ANY EXISTING UTILITY LINES AND TO ARRANGE FOR A REPRESENTATIVE OF THE UNIVERSITY TO BE PRESENT IF THE CONTRACTOR'S OPERATIONS ARE IN CLOSE PROXIMITY TO ANY EXISTING OR RELOCATED LINES WHICH COULD CREATE A HAZARDOUS CONDITION.
10. IN ADDITION, IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY ALL UTILITIES WHEN CONSTRUCTION WORK BEGINS IN THE VICINITY OF ANY UTILITY LINES AND TO ARRANGE FOR A REPRESENTATIVE OF THE UTILITY TO BE PRESENT IF THE CONTRACTOR'S OPERATIONS ARE IN CLOSE PROXIMITY TO ANY LINES IN THEIR EXISTING OR RELOCATED POSITION WHICH COULD CREATE A HAZARDOUS CONDITION.
11. CONTRACTOR TO PROVIDE A WRITTEN 7-DAY ADVANCE NOTICE TO USU FACILITIES FOR ALL UTILITY SHUT DOWNS, ROADWAY CLOSURES, SIDEWALK CLOSURES, OR ANY OTHER ACTIVITY THAT IMPACTS NORMAL CAMPUS OPERATIONS.
12. WHERE THERE IS A CONFLICT BETWEEN THESE PLANS AND THE SPECIFICATIONS, OR ANY APPLICABLE STANDARDS, THE HIGHER QUALITY STANDARD SHALL APPLY.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING ROADS & WALKWAYS FREE AND CLEAR OF ALL CONSTRUCTION DEBRIS AND DIRT TRACKED FROM THE SITE.
14. 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.
15. CONTRACTOR TO PROVIDE A PEDESTRIAN ACCESS PLAN PRIOR TO CONSTRUCTION.
16. GENERAL CONTRACTOR TO PROVIDE ALL EQUIPMENT, PERSONNEL, AND CONSTRUCTION STAKING REQUIRED FOR FINAL CHECKOUT OF ALL FACILITIES BY OWNER'S REPRESENTATIVE.
17. GENERAL CONTRACTOR TO PERFORM SITE CLEAN-UP AT COMPLETION OF WORK.

BID SET

DESCRIPTION:

NO.:

DATE:




SHEET DESCRIPTION:

GENERAL NOTES

QUAD PORTALS

UTAH STATE UNIVERSITY

LOGAN, UTAH 84321



Cache • Landmark
Engineers
Surveyors
Planners

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DATE:
29 SEPTEMBER 2021

SCALE:
N/A

DESIGN BY:
J. MAUGHAN

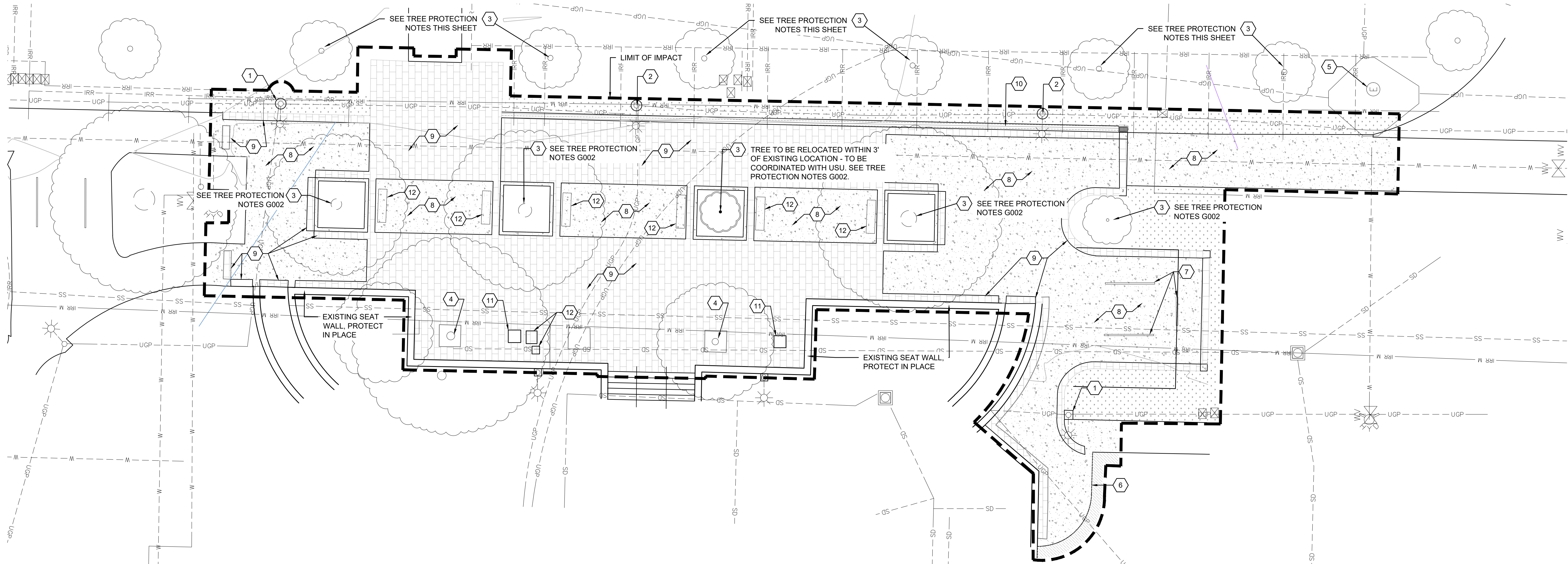
CHECKED BY:
J. MAUGHAN

APPROVED BY:
L. ANDERSON

PROJECT NUMBER:
690-2101

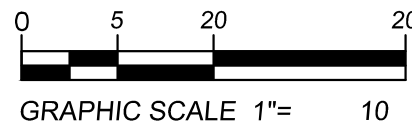
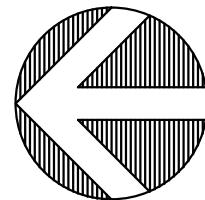
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EXISTING SITE & DEMO PLAN

SCALE: 1" = 10'

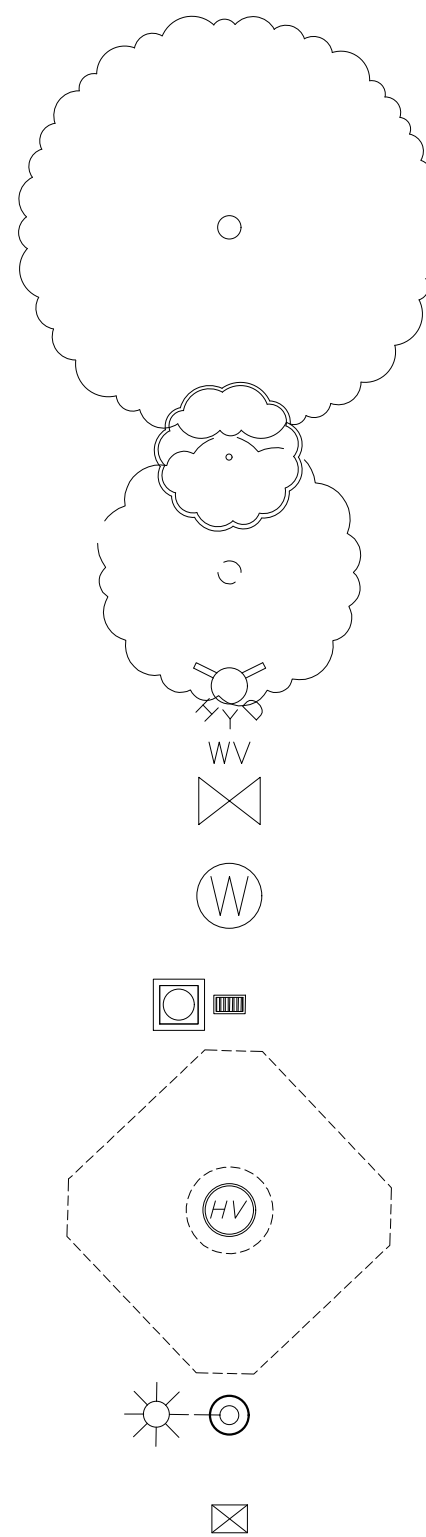


DEMOLITION PLAN KEYED NOTES:

- 1 EXISTING LIGHT POLE & FOUNDATION TO BE RELOCATED
- 2 EXISTING LIGHT POLE & FOUNDATION - PRESERVE AND PROTECT IN PLACE
- 3 PROTECT TREE IN PLACE - **NO IMPACT TO ROOT ZONE**. SEE TREE PROTECTION NOTES G002.
- 4 REMOVE EXISTING TREES - CLEAR & GRUB ROOTBALL
- 5 HIGH VOLTAGE VAULT - PRESERVE AND PROTECT IN PLACE
- 6 REMOVE EXISTING CURB & SIDEWALK
- 7 REMOVE BIKE RACKS.
- 8 REMOVE EXISTING CONCRETE
- 9 REMOVE EXISTING BRICK PAVING, SALVAGE PAVERS ON PALETTES AND COORDINATE STORAGE WITH USU LOAM.
- 10 REMOVE DRAIN AND DRAIN LINE
- 11 EXISTING STATUES TO BE RELOCATED - - SEE SITE PLAN. STORAGE DURING CONSTRUCTION TO BE COORDINATED WITH ECCLES MUSEUM PERSONNEL.
- 12 EXISTING SITE FURNISHINGS (EXCEPT BIKE RACKS) TO BE REMOVED AND STORED FOR REINSTALLATION - COORDINATE WITH USU LOAM FOR STORAGE LOCATION.

DEMOLITION PLAN HATCH, LINE & SYMBOL LEGEND:

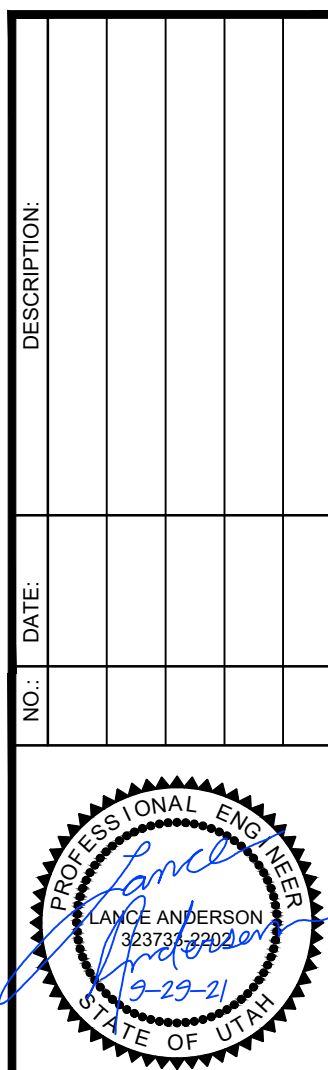
- | | |
|--|--|
| | EXISTING CONCRETE - TO BE REMOVED |
| | EXISTING PAVERS - TO BE REMOVED
REMOVE EXISTING SIGNS, BOLLARD + FOUNDATIONS |
| | EXISTING LANDSCAPE AREA - TO BE REMOVED
CONTACT USU LOAM FOR ANY PLANT MATERIAL TO BE PRESERVED IN PLACE OR SALVAGED. |
| | EXISTING EXISTING UNDERGROUND POWER LINE |
| | EXISTING STORM DRAIN LINE |
| | EXISTING IRRIGATION MAIN LINE |
| | EXISTING IRRIGATION LATERALS |
| | EXISTING CULINARY WATER LINE |
| | EXISTING SANITARY SEWER LINE |



DEMOLITION GENERAL NOTES:

1. THE CONTRACTOR SHALL REVIEW DEMOLITION PLAN AND COMPARE WITH EXISTING CONDITIONS. THE CONTRACTOR SHALL RESOLVE ANY DISCREPANCIES BETWEEN THE DEMOLITION PLAN AND EXISTING CONDITIONS WITH UNIVERSITY PERSONNEL, 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 TO THE UNIVERSITY.
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 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. ALL EXISTING TREES TO REMAIN SHALL BE IRRIGATED AND PROTECTED WITH A TEMPORARY FENCE PLACED AT THE DRIP LINE OF THE TREE FOR THE DURATION OF ALL CONSTRUCTION ACTIVITIES. CONTRACTOR TO COORDINATE TREE PROTECTION WITH LANDSCAPE (L) DRAWINGS.
9. CONTRACTOR TO WORK WITH USU LANDSCAPE OPERATIONS AND MAINTENANCE (LOAM) TO CLEARLY IDENTIFY ROLES AND RESPONSIBILITIES FOR TREE REMOVAL & WORK UNDER DRIP LINES AND TREE CARE DURING CONSTRUCTION.
10. USU AND BLUE STAKES DIGGING PERMIT REQUIRED.
11. CONTRACTOR TO LEGALLY DISPOSE OF ALL WASTE AND DEBRIS.
12. RECYCLE ASPHALT, CONCRETE, METALS, ETC. WHERE POSSIBLE. TREES AND OTHER VEGETATION TO GO TO LOGAN GREEN WASTE FACILITY.
13. CUT AND CAP IRRIGATION MAINS AT THE PROJECT PERIMETER AFTER COORDINATION WITH USU FACILITIES LOAM.
14. CONTRACTOR TO COORDINATE ALL EXISTING ROOF DRAIN LOCATIONS (IF IMPACTED AND APPLICABLE) AND PROVIDE FOR NECESSARY ROOF DRAINAGE AND DISCHARGE AS NECESSARY DURING CONSTRUCTION
15. CONTRACTOR TO PROVIDE FOR ALL NECESSARY IRRIGATION AND PLANTING PATCH & REPAIR ADJACENT TO CONCRETE REMOVAL AREAS ON OR ADJACENT TO THE PROJECT LIMITS.
16. CONTRACTOR IS RESPONSIBLE TO REMOVE AND DISPOSE OF ALL WASP NESTS IN PROJECT AREA.

BID SET



EXISTING SITE & DEMOLITION PLAN

QUAD PORTALS
UTAH STATE UNIVERSITY
LOGAN, UTAH 84321



Cache • Landmark
Engineers
Surveyors
Planners

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DATE: 29 SEPTEMBER 2021

SCALE: 1" = 10'

DESIGN BY:
J. MAUGHAN

CHECKED BY:
L. ANDERSON

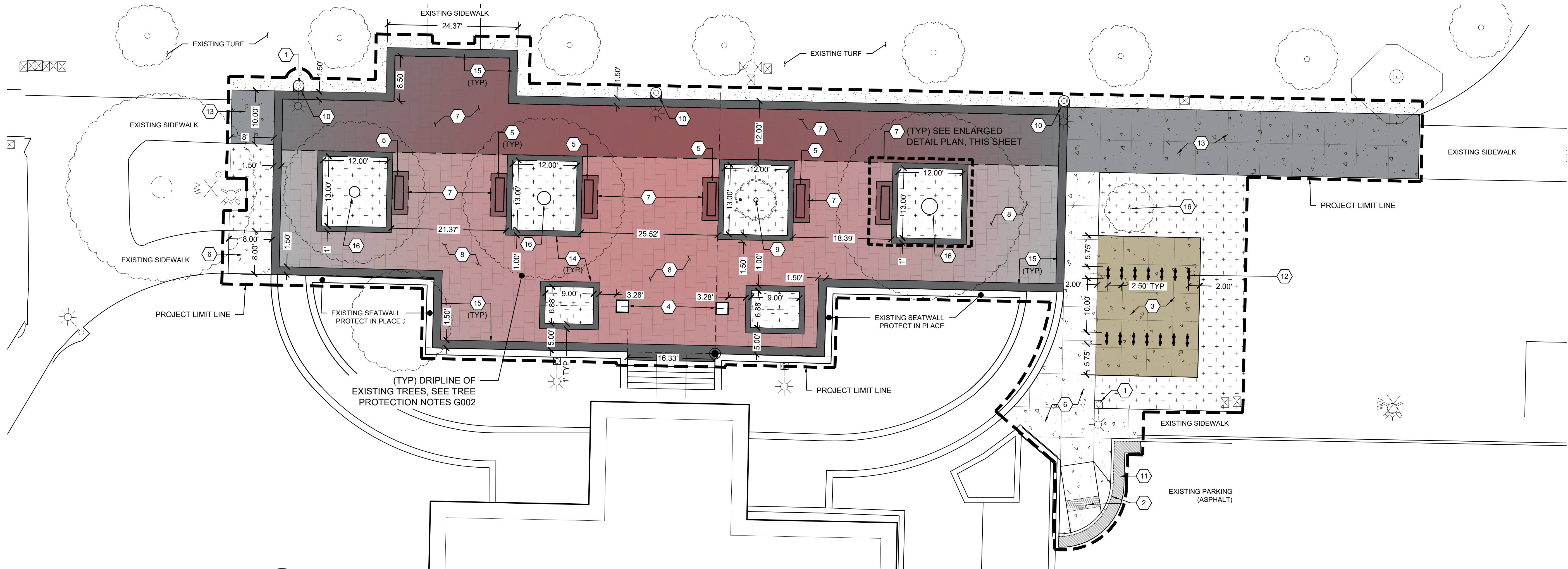
APPROVED BY:
L. ANDERSON

PROJECT NUMBER:
690-2101

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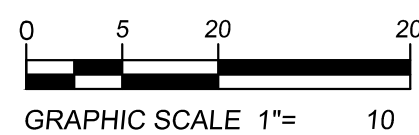
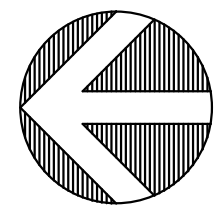
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SITE PLAN

SCALE: 1" = 10'

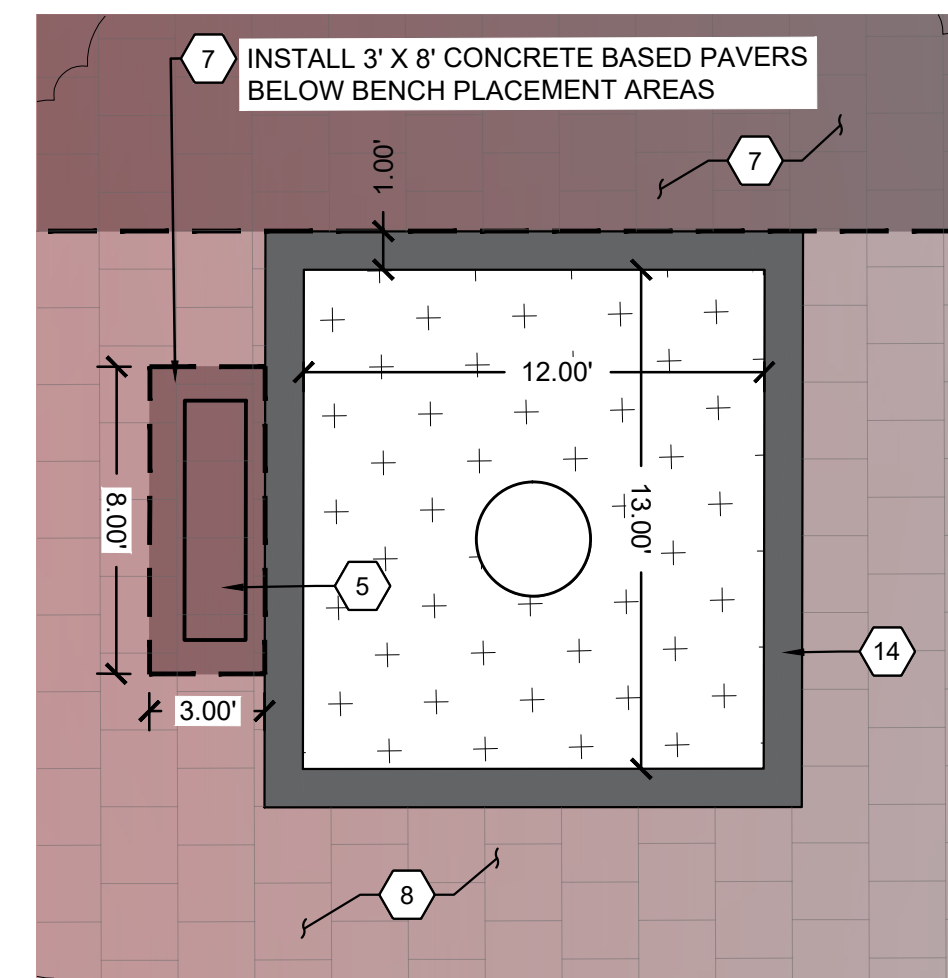


SITE PLAN KEYED NOTES:

- 1 REINSTALL LIGHT POLE TO THIS LOCATION - SEE C001
- 2 CONSTRUCT CONCRETE ADA CURB & SIDEWALK, SEE DETAIL G, C500
- 3 CONSTRUCT INTEGRAL COLORED STANDARD CONCRETE, DAVIS COLOR YOSEMITE BROWN.
- 4 REINSTALL STATUES TO THIS LOCATION - CENTER ON TREE PLANTER AS SHOWN - SEE C001
- 5 EXISTING SALVAGED BENCHES TO BE REFINISHED, POWDER COATED AND REINSTALLED. COORDINATE WITH USU LOAM BEFORE INSTALL.
- 6 CONSTRUCT STANDARD CONCRETE SIDEWALK, SEE DETAIL B & E, C500
- 7 INSTALL 4" X 8", 80mm BELGARD HOLLAND STONE TOSCANA PERVIOUS PAVERS OVER CONCRETE BASE, SEE DETAIL C, C500.
- 8 INSTALL 4" X 8", 80mm BELGARD HOLLAND STONE TOSCANA PERVIOUS PAVERS - SEE DETAIL D, C500
- 9 RELOCATE TREE - CENTER IN PLANTER AS SHOWN - SEE C001 AND L100
- 10 EXTEND INTEGRAL COLORED CONCRETE TO CONCRETE APRON AROUND EXISTING/RELOCATED LIGHT POLE BASES AS SHOWN.
- 11 CONSTRUCT ASPHALT - SEE DETAIL A, C500
- 12 INSTALL MADRAX ORION STAINLESS STEEL BIKE RACK - SEE DETAIL F, C500
- 13 CONSTRUCT HEAVY-DUTY CONCRETE, SEE DETAIL B, C500.
- 14 CONSTRUCT INTEGRAL COLORED SOLOMON 920 SMOKE 12" CONCRETE BANDING AROUND ALL PLANTERS, SEE DETAIL D, C500.
- 15 CONSTRUCT INTEGRAL COLORED SOLOMON 920 SMOKE 18" CONCRETE BANDING AROUND PERIMETER OF PAVED AREA, SEE DETAIL D, C500.
- 16 EXISTING TREE TO REMAIN; PROTECT IN PLACE, SEE TREE PROTECTION NOTES, G002 AND DEMO PLAN, C001

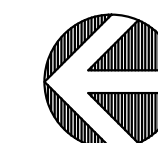
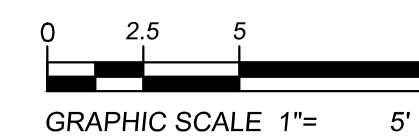
HATCH, LINE & SYMBOL LEGEND:

	STANDARD CONCRETE		EXISTING TREE - TO BE RELOCATED COORDINATE WITH LOAM - PROTECT ROOTZONE
	HEAVY DUTY CONCRETE		EXISTING TREE - TO REMAIN PRESERVE & PROTECT IN PLACE
	INTEGRAL COLORED STANDARD CONCRETE		EXISTING FIRE HYDRANT
	CONCRETE BASED PERVIOUS PAVING		EXISTING WATER VALVE
	PERVIOUS PAVING		EXISTING WATER MANHOLE
	TURF PATCH, REPAIR OR REPLACE TO PREVIOUS LEVEL CONDITION		EXISTING STORM DRAIN INLETS (VARIOUS)
	LANDSCAPE AREA		EXISTING HIGH VOLTAGE POWER VAULT
	18" WIDE INTEGRAL COLORED CONCRETE BANDING		EXISTING LIGHT POLES & BASES
	12" WIDE INTEGRAL COLORED CONCRETE BANDING		EXISTING IRRIGATION CONTROL VALVE
	EXISTING UNDERGROUND POWER LINE		
	EXISTING STORM DRAIN LINE		
	EXISTING IRRIGATION MAIN LINE		
	EXISTING IRRIGATION LATERALS		
	EXISTING CULINARY WATER LINE		
	EXISTING SANITARY SEWER LINE		

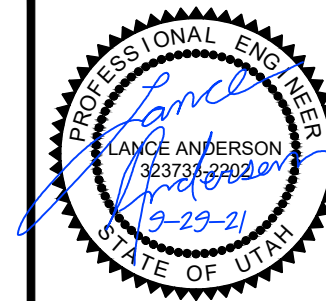


ENLARGED DETAIL PLAN

SCALE: 1" = 5'



BID SET



QUAD PORTAL SITE PLAN

QUAD PORTALS
UTAH STATE UNIVERSITY
LOGAN, UTAH 84321



Cache • Landmark
Engineers
Surveyors
Planners

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

DATE: 29 SEPTEMBER 2021

SCALE: NA

DESIGN BY:
J. MAUGHAN

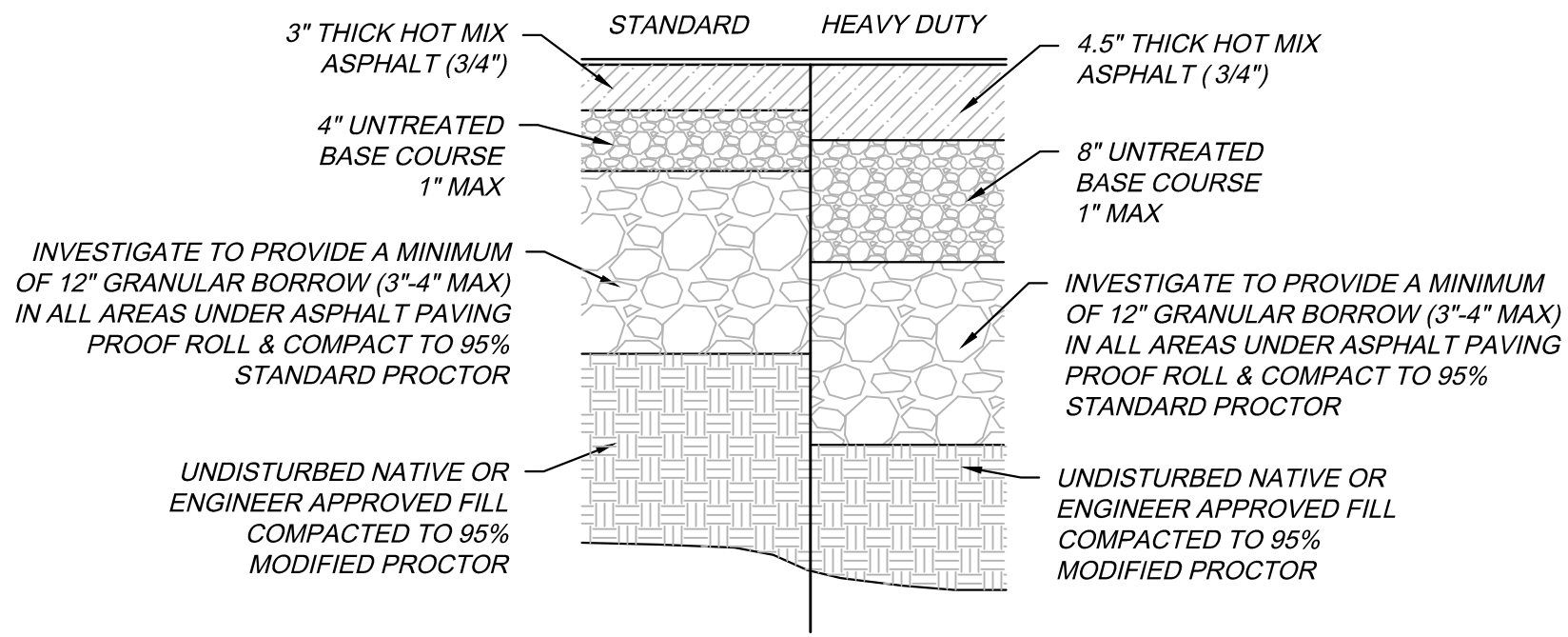
CHECKED BY:
L. ANDERSON

APPROVED BY:
L. ANDERSON

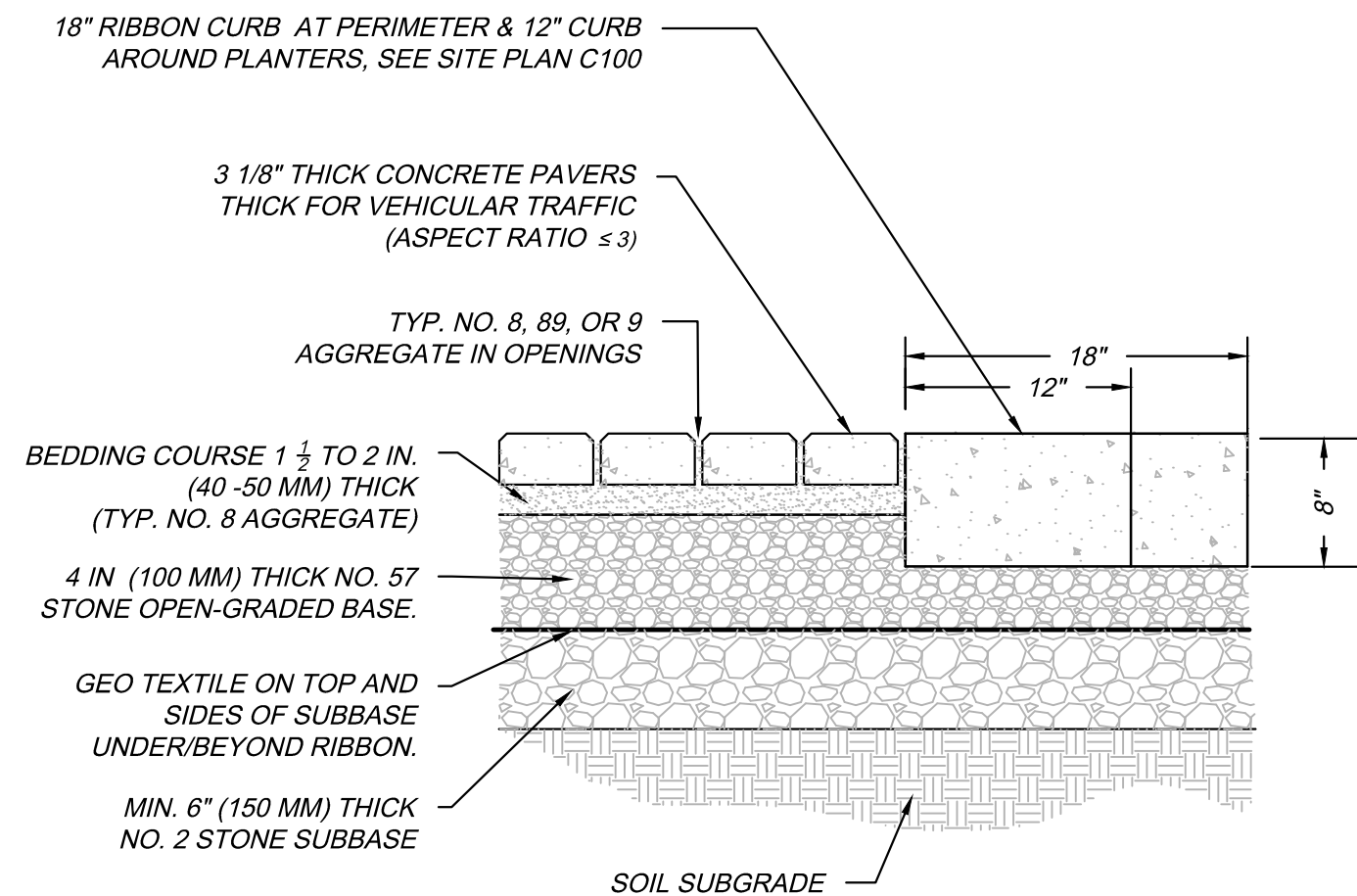
PROJECT NUMBER:
690-2101

SHEET:

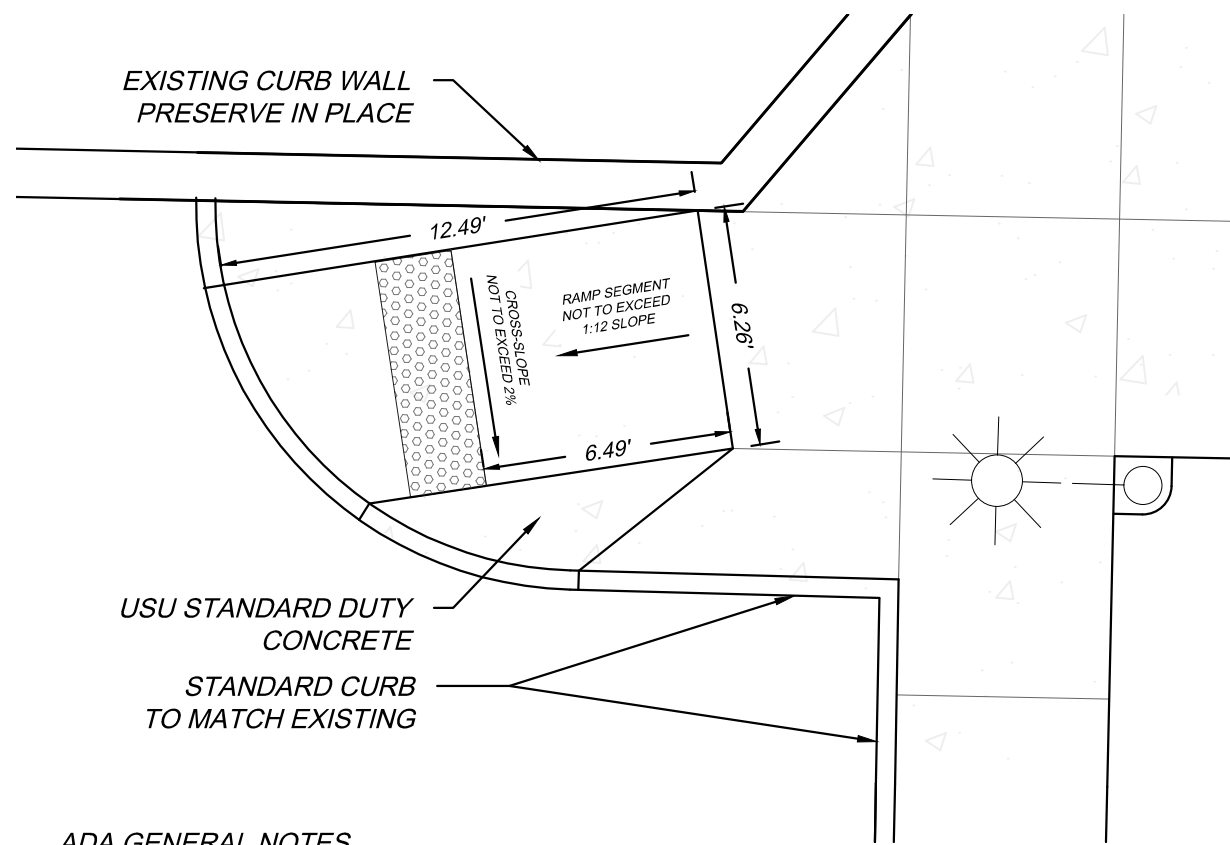
C100



A CIVIL - TYPICAL ASPHALT SECTIONS
SCALE: NTS

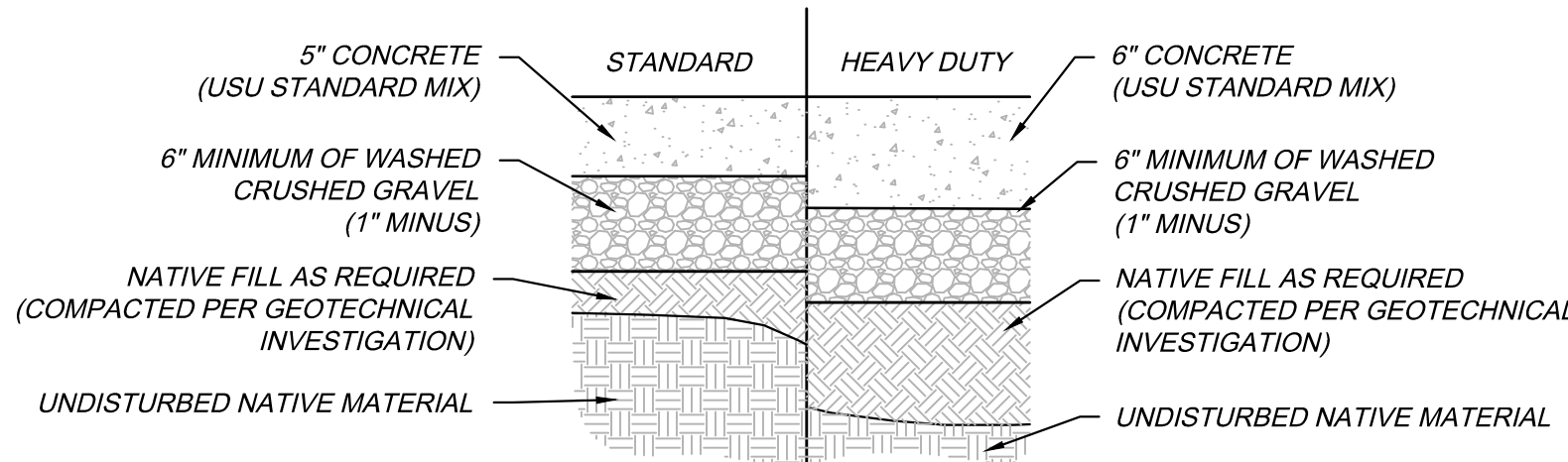


D PERVIOUS PAVEMENT WITH FULL EXFILTRATION TO SOIL SUBGRADE
SCALE: NTS



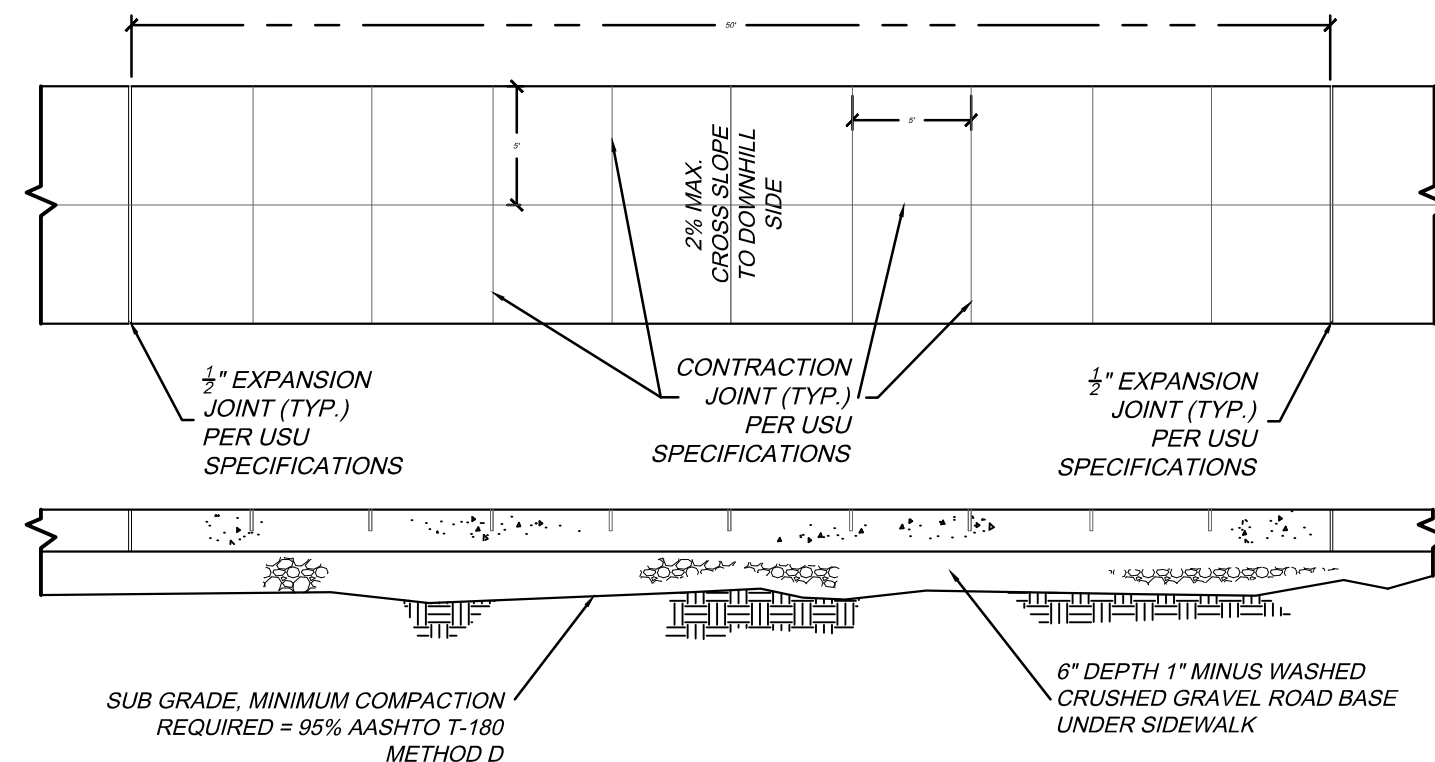
- ADA GENERAL NOTES**
1. NO LIP IN CURB GREATER THAN 1/4\"
 2. LENGTHS OF RAMPS VARY AS REQUIRED TO MEET 1(V):12(H) SLOPE OR FLATTER.
 3. ABSOLUTE MINIMUM DIMENSIONS OF LANDINGS TO BE 36\"
 4. ALL RAMPS TO MEET LOGAN CITY & APIWA STANDARDS.

G ADA RAMP WITH TRUNCATED DOMES
SCALE: 1\"

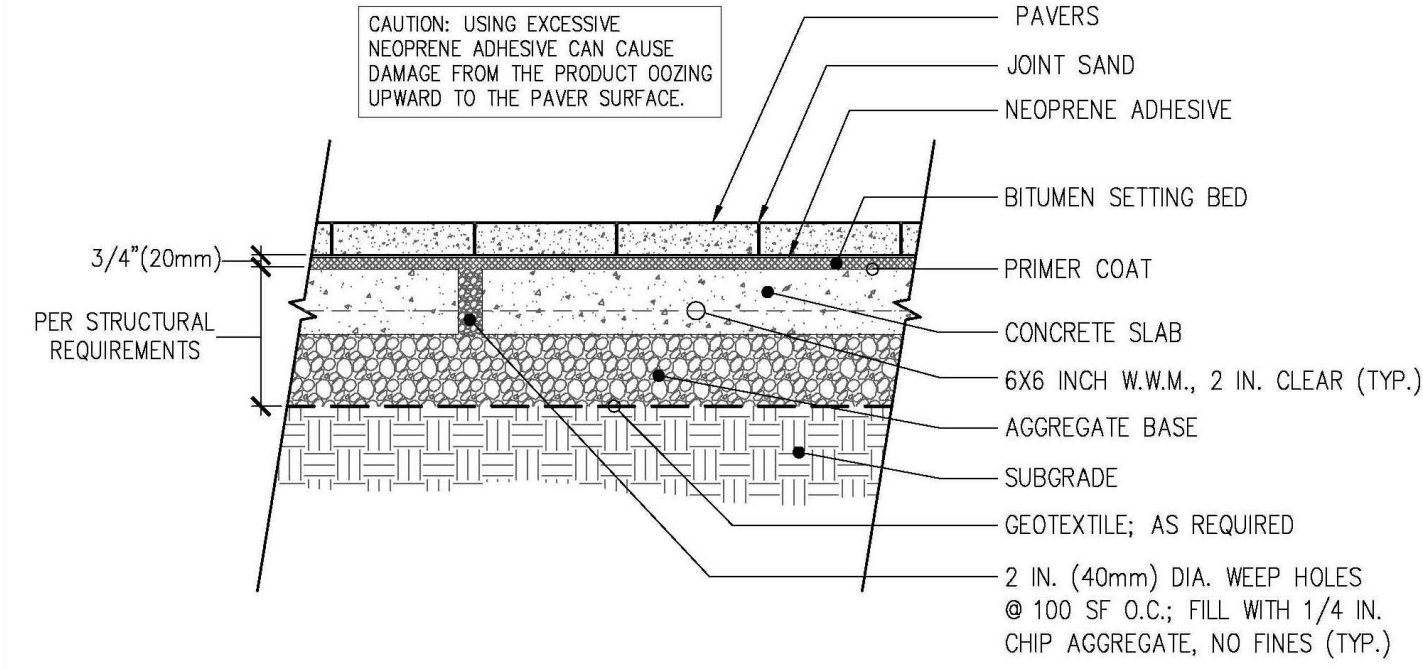


- GENERAL NOTES:**
1. CONCRETE MIX DESIGN TO MEET USU STANDARDS AND SPECIFICATIONS.
 2. ALL OTHER WORK IN RIGHT-OF-WAY SHALL MEET LOGAN CITY APWA STANDARDS & SPECIFICATIONS FOR QUALITY, INSTALLATION & WORKMANSHIP - SEE <http://www.loganutah.org/PW/Engineering/index.cfm#tab6> FOR CURRENT REVISIONS

B CIVIL - TYPICAL CONCRETE SECTIONS
SCALE: NTS

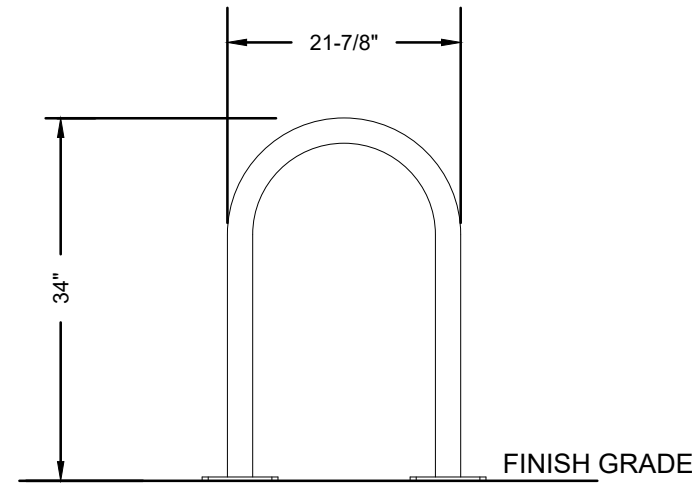


E CIVIL - TYPICAL CONCRETE FLATWORK
SCALE: NTS

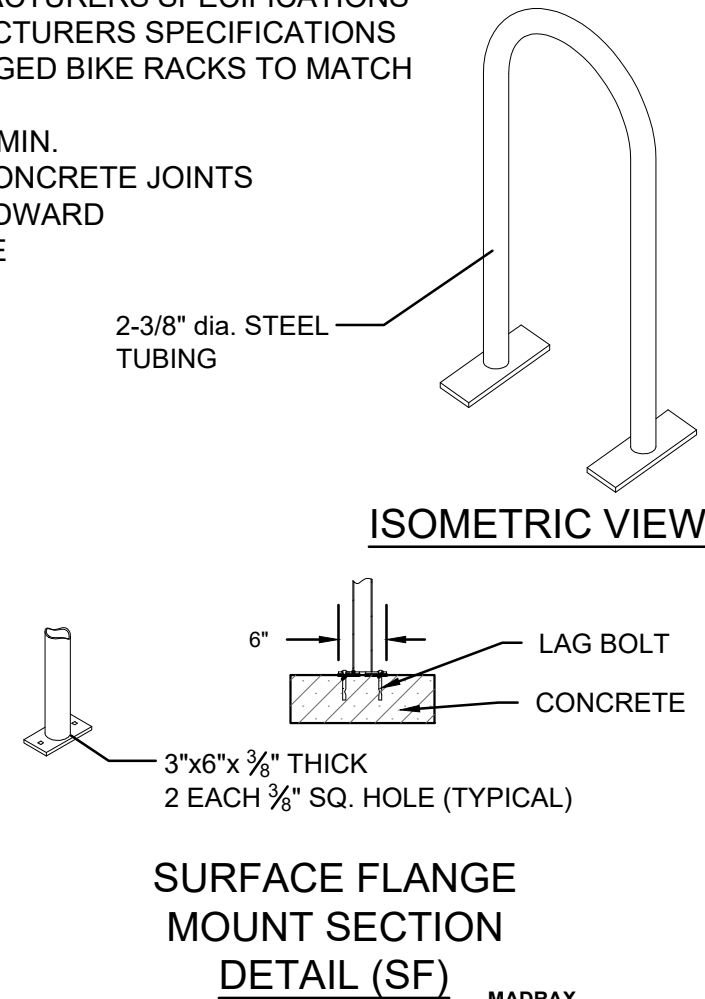


C CONCRETE BASED PAVER INSTALL
SCALE: NTS

- NOTES:**
1. INSTALL BIKE RACKS ACCORDING TO MANUFACTURERS SPECIFICATIONS
 2. BRONZE POWDER COAT FINISH PER MANUFACTURERS SPECIFICATIONS
 3. CONTRACTOR TO RE-FINISH EXISTING SALVAGED BIKE RACKS TO MATCH BRONZE FINISH PRIOR TO RE-INSTALLATION.
 4. STANDARD SPACING OF BIKE RACK - 30\"
 5. AVOID PLACING MOUNTING HARDWARE ON CONCRETE JOINTS
 6. USE ONLY STAINLESS STEEL MOUNTING HARDWARE
 7. FINAL LAYOUT AND SPACING OF RACKS TO BE FIELD ADJUSTED AND APPROVED BY OWNER



PRODUCT NAME: 'U' BIKE RACK
PRODUCT #: U238-SF



SURFACE FLANGE MOUNT SECTION DETAIL (SF)

MADRAX
A DIVISION OF TRILARY, INC.
1080 UNIEK DRIVE
WAUNAKEE, WI 53597
800-448-7931 toll free
608-849-1080 ph
608-849-1081 fax
www.madrax.com

F MADRAX ORION BIKE RACK
SCALE: NTS

NO.	DATE	DESCRIPTION
1	5/20/2020	ADD FIRE HYDRANT AND WATER LINE
2	6/8/2020	CHANGE CURB TYPE, ADD GRADING NOTE
3	6/10/2020	CHANGE EXISTING WATER LINE ELEVATION
4	6/19/2020	IRREG. CONTROL LID ELEVATIONS
5	6/10/2020	CONCRETE FLATWORK CHANGES

CIVIL DETAILS

USU QUAD PORTAL
UTAH STATE UNIVERSITY
LOGAN, UTAH 84321



Cache • Landmark
Engineers
Surveyors
Planners

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

DATE: 20 MAY 2021

SCALE: NTS

DESIGN BY: J. MAUGHAN

CHECKED BY: L. ANDERSON

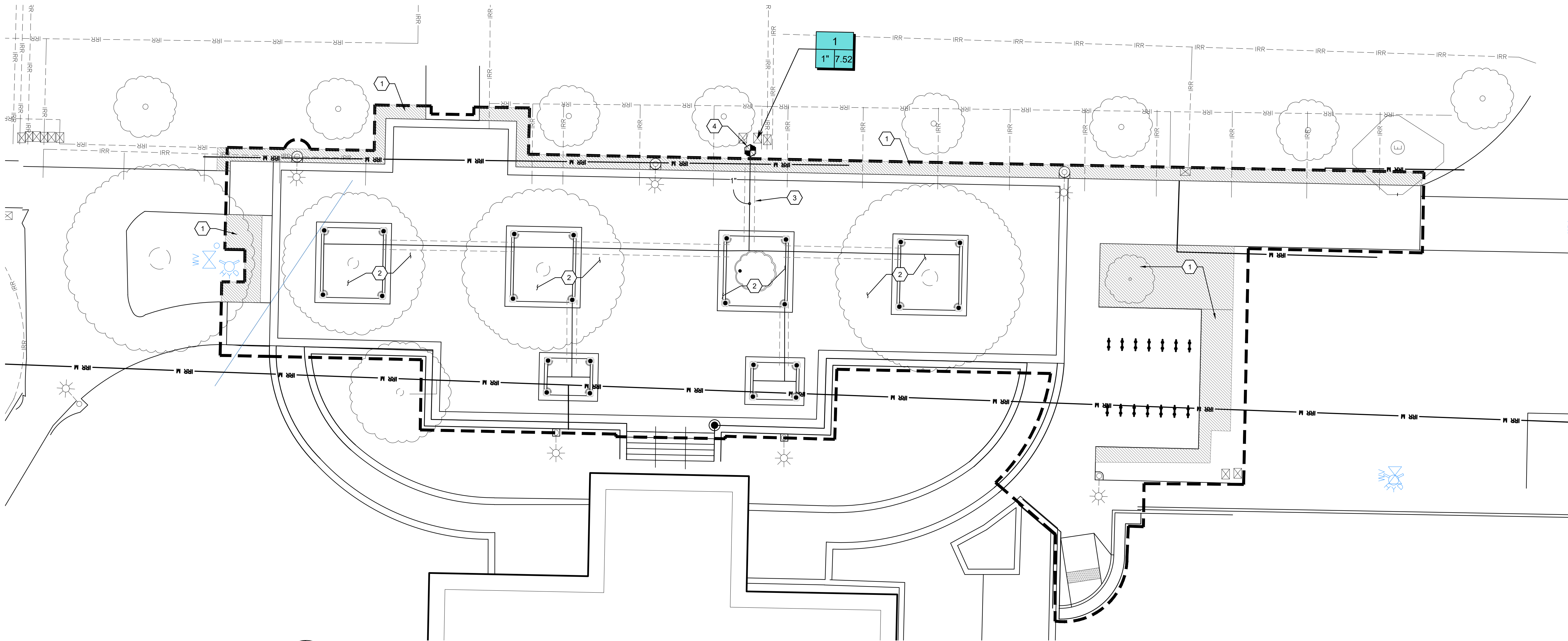
APPROVED BY: L. ANDERSON

PROJECT NUMBER: 690-2101

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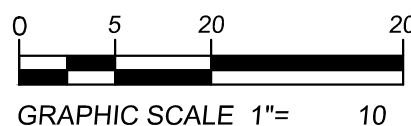
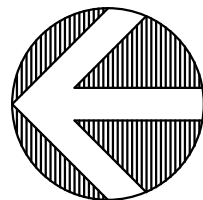
C500

PLOTTED September 29, 2021 BY Jennifer Maughan FILE Z:\2021 PROJECTS\690-2101 USU - QUAD PORTAL IMPROVEMENTS\QAQ\CONSTRUCTION DOCUMENTS\L200 QUAD IRRIGATION PLAN.DWG



IRRIGATION PLAN





SCALE: 1" = 10'







IRRIGATION KEYED NOTES:

- 1 ALL PLANTING BEDS AND TURF AREAS IMPACTED BY NEW INSTALLATION SHALL BE REPAIRED OR REPLACED AND ALL WORK IS TO BE COORDINATED WITH USU LOAM.
- 2 ALL TRENCHING IN ROOT ZONE TO BE AIR SPADE BY USU, SEE G002 TREE PROTECTION NOTES.
- 3 NEW SLEEVING TO BE PROVIDED. ENSURE ALL SLEEVING IS PLACED PRIOR TO HARDSCAPE PLACEMENT.
- 4 EXISTING VALVE TO BE REPLACED THIS LOCATION - OLD VALVE TO BE SALVAGED AND RETURNED TO USU LANDSCAPE OPERATIONS.

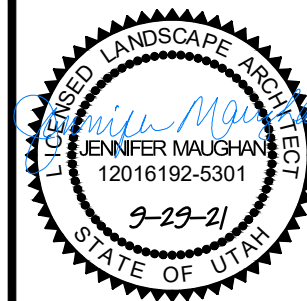
IRRIGATION SCHEDULE:

SYMBOL	MANUFACTURER/MODEL	QTY	PSI	DETAIL
	RAIN BIRD R-VAN14 RD-06-SAM-P45	24	45	48&5/L201
	HUNTER ICV-G	1		2&3/L201
	IRRIGATION LATERAL LINE: PVC SCHEDULE 40	312.1 L.F.		1/L201
	PIPE SLEEVE: POLYETHYLENE AND PVC CLASS 200	112.6 L.F.		1/L201

SYMBOL	MANUFACTURER/MODEL	QTY	DETAIL
	VALVE CALLOUT		
	VALVE NUMBER		
	VALVE FLOW		
	VALVE SIZE		

IRRIGATION GENERAL NOTES:

- A. ALL EXISTING IRRIGATION HEADS, VALVES AND EQUIPMENT TO BE REMOVED FROM SITE, EXISTING LATERAL AND MAIN LINES TO BE ABANDONED AND REMOVED FROM SITE ONLY AS NECESSARY FOR NEW INSTALLATION. NO REMNANTS, MATERIALS OR EQUIPMENT ARE TO BE SALVAGED AND/OR RE-USED IN NEW IRRIGATION SYSTEM INSTALLATION.
- B. CONTRACTOR TO ADHERE TO USU STANDARDS AND **COORDINATE WITH LANDSCAPE OPERATIONS BEFORE BEGINNING ANY WORK.**
- C. CONTRACTOR TO COORDINATE NEW IRRIGATION MAINLINE, LATERAL LINE AND SLEEVING WITH NEW CONCRETE INSTALLATION.
- D. **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. SLEEVES TO BE PLACED AS NECESSARY AND WHERE USEFUL.**
- E. 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.
- F. CONTRACTOR TO MINIMIZE DAMAGE TO ROOTS OF EXISTING TREES AND SHRUBS, MAKING CLEAN SAW-CUTS WHERE POSSIBLE.
- G. THIS SYSTEM IS BASED UPON AN AVAILABLE WORKING PRESSURE OF 45 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.
- H. 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 FOR MORE INFORMATION.
- I. 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 THAT PIPES TO BE SLEEVED. MULTIPLE SLEEVES MAY BE PLACED IN A SINGLE TRENCH. SLEEVES TO EXTEND 6" BEYOND PAVED SURFACE ON EACH SIDE. ALL WIRES ARE TO BE SLEEVED.
- J. 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.
- K. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT ALL PRODUCTS AND MATERIALS INSTALLED ARE IN ACCORDANCE WITH CURRENT LAWS AND LOCAL REGULATIONS & SHALL MEET ALL UTAH STATE UNIVERSITY STANDARDS AND SPECIFICATIONS FOR IRRIGATION SYSTEMS.
- L. 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. INSTALL MUELLER OR SEAL MANUAL DRAINS AT ALL LOW POINTS ON MAIN AND AT A MINIMUM OF EVERY 250' ALONG LATERAL LINES AS PER DETAIL 6, L-2.1. AUTOMATIC DRAINS ARE NOT PERMITTED.
- M. PULLING OF PIPE IS NOT PERMITTED.
- N. CONTRACTOR TO ADHERE TO ALL PROCEDURES FOR INSTALLATION AS DESCRIBED IN THE UTAH STATE STANDARDS & SPECIFICATIONS.
- O. CONTRACTOR SHALL USE NO PIPE SMALLER THAN 1" FOR ANY WATER DELIVERY PORTIONS OF THE IRRIGATION SYSTEM.
- P. 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. MINIMUM LATERAL SIZE 1".
- Q. CONTRACTOR TO PROVIDE ALL ADDITIONAL WIRING NECESSARY TO TIE EXISTING ZONES INTO EXISTING CONTROLLER.
- R. CONTROL WIRES SHALL BE 14 GA AND SHALL BE DIFFERENT COLORS. USE OF MULTI-STRAND CONTROL WIRE, 18 GA, WITH 14 GA GOUND WIRES, IS ALLOWED WITH APPROVAL FROM FACILITIES PLANNING, DESIGN AND CONSTRUCTION. FOR COLOR SPECIFICATIONS SEE USU A&E MANUAL 32 80 C5.



QUAD PORTAL IRRIGATION PLAN

QUAD PORTALS
UTAH STATE UNIVERSITY
LOGAN, UTAH 84321



Cache • Landmark
Engineers
Surveyors
Planners

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

DATE: 29 SEPTEMBER 2021

SCALE: NA

DESIGN BY: J. MAUGHAN

CHECKED BY: L. ANDERSON

APPROVED BY: L. ANDERSON

PROJECT NUMBER: 690-2101

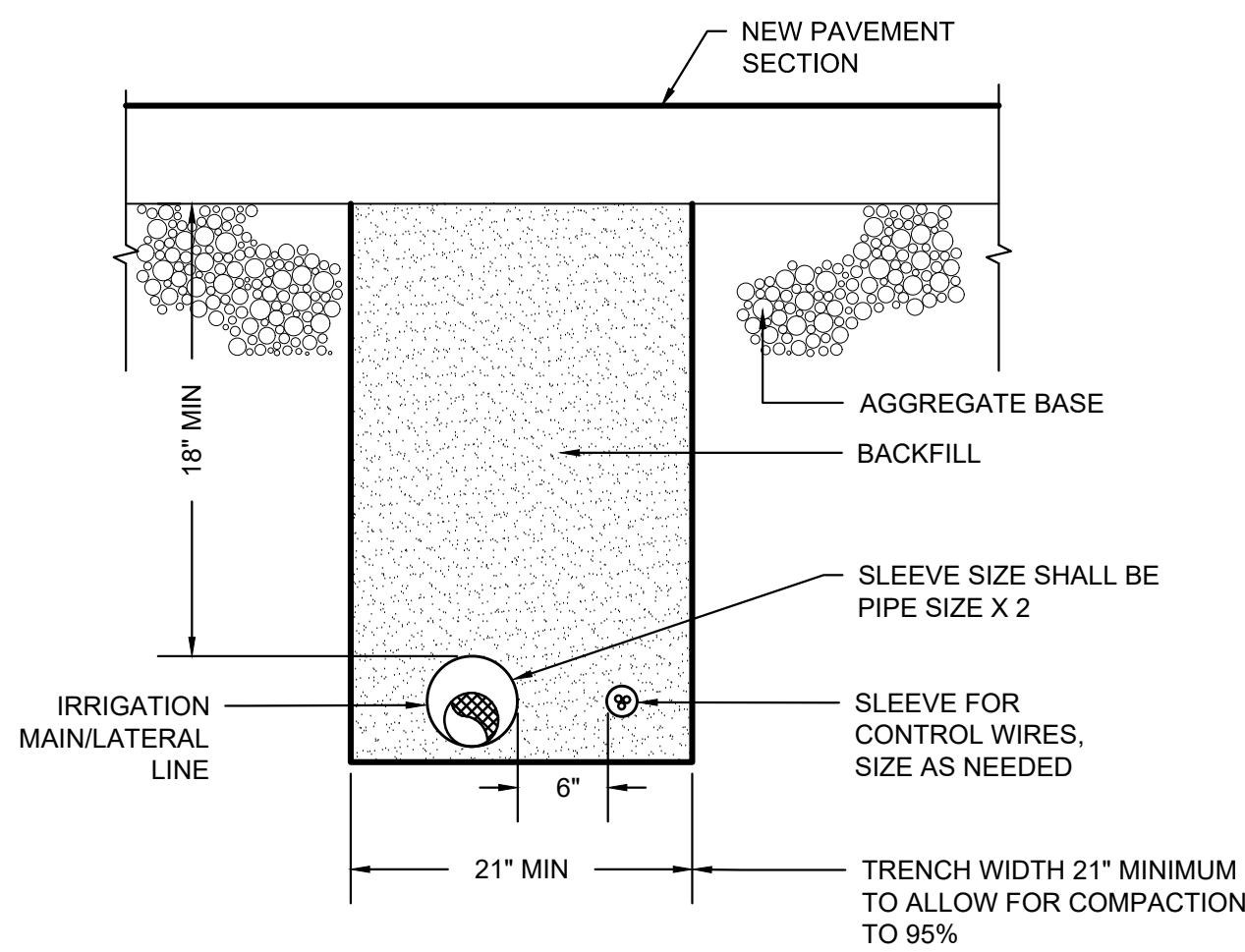
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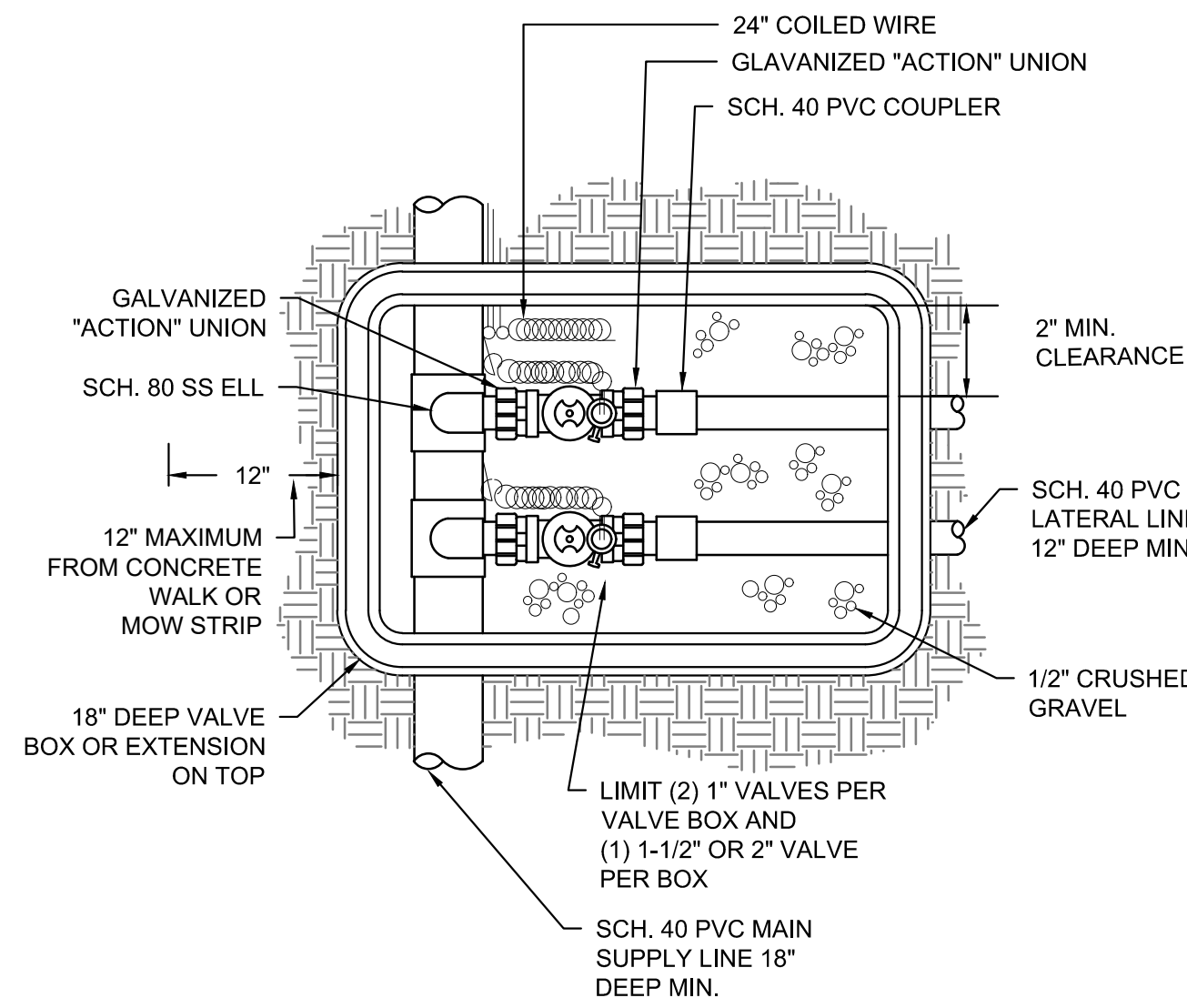
BID SET

PLOTTED September 29, 2021 BY Jennifer Maughan FILE Z:\2021 PROJECTS\690-2101 LSU - QUAD PORTAL IMPROVEMENTS\QAQ\CONSTRUCTION DOCUMENTS\200 LSU QUAD IRRIGATION PLAN.DWG

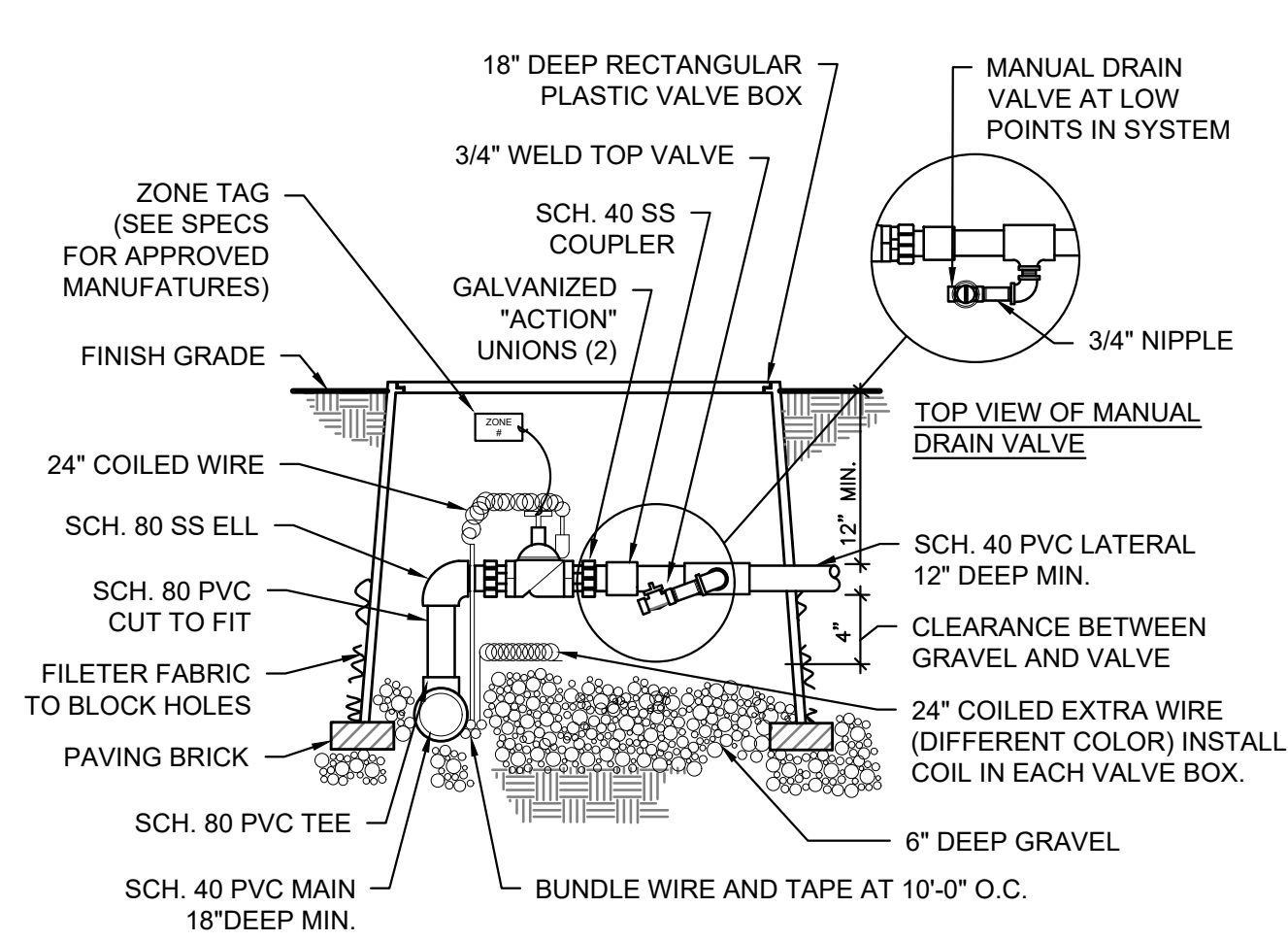
1 MISC. PIPE TRENCH - NEW PAVEMENT



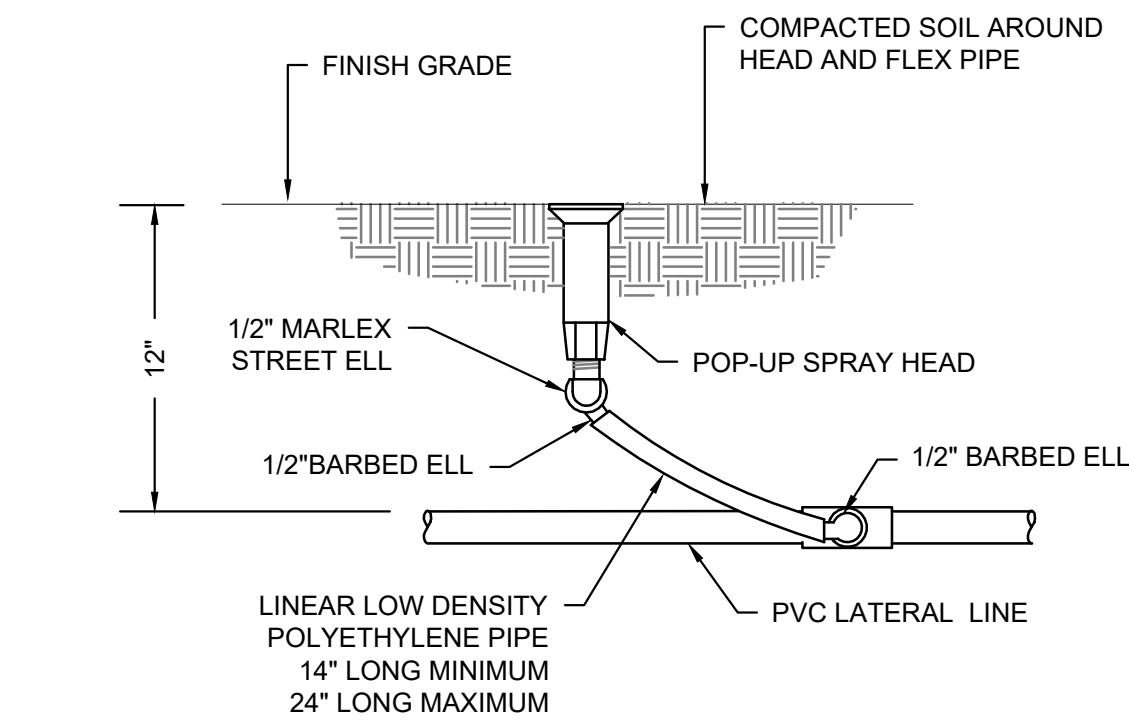
2 VALVE ASSEMBLY DETAIL - PLAN VIEW



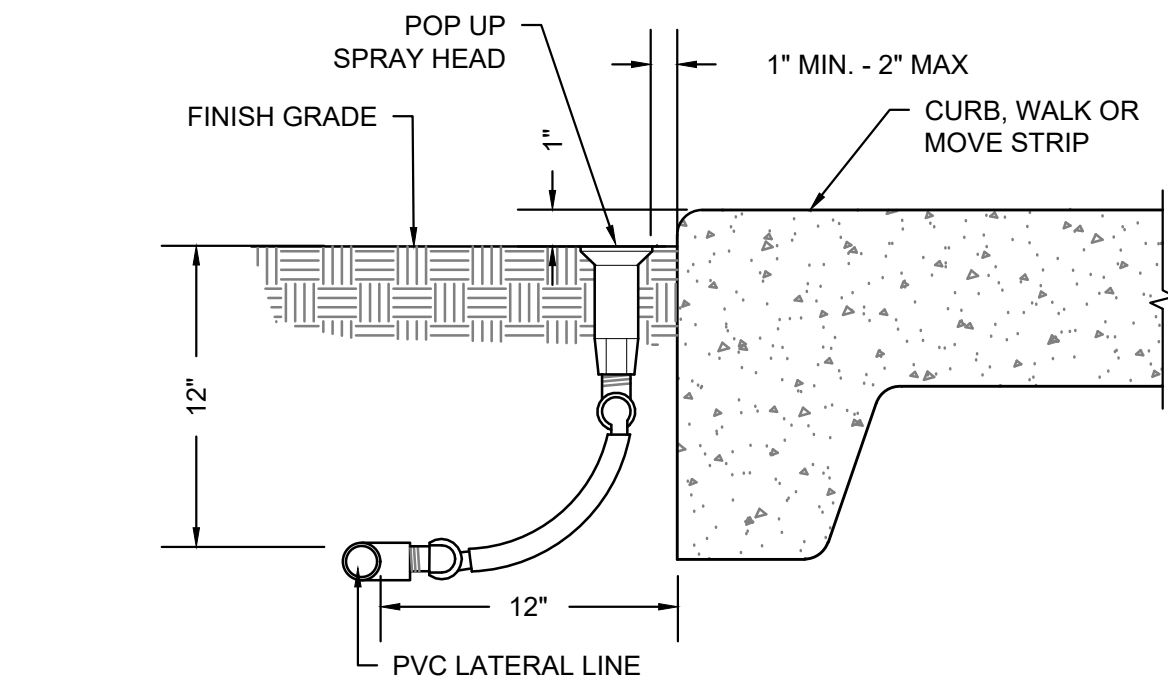
6 AUTOMATIC VALVE WITH DRAIN



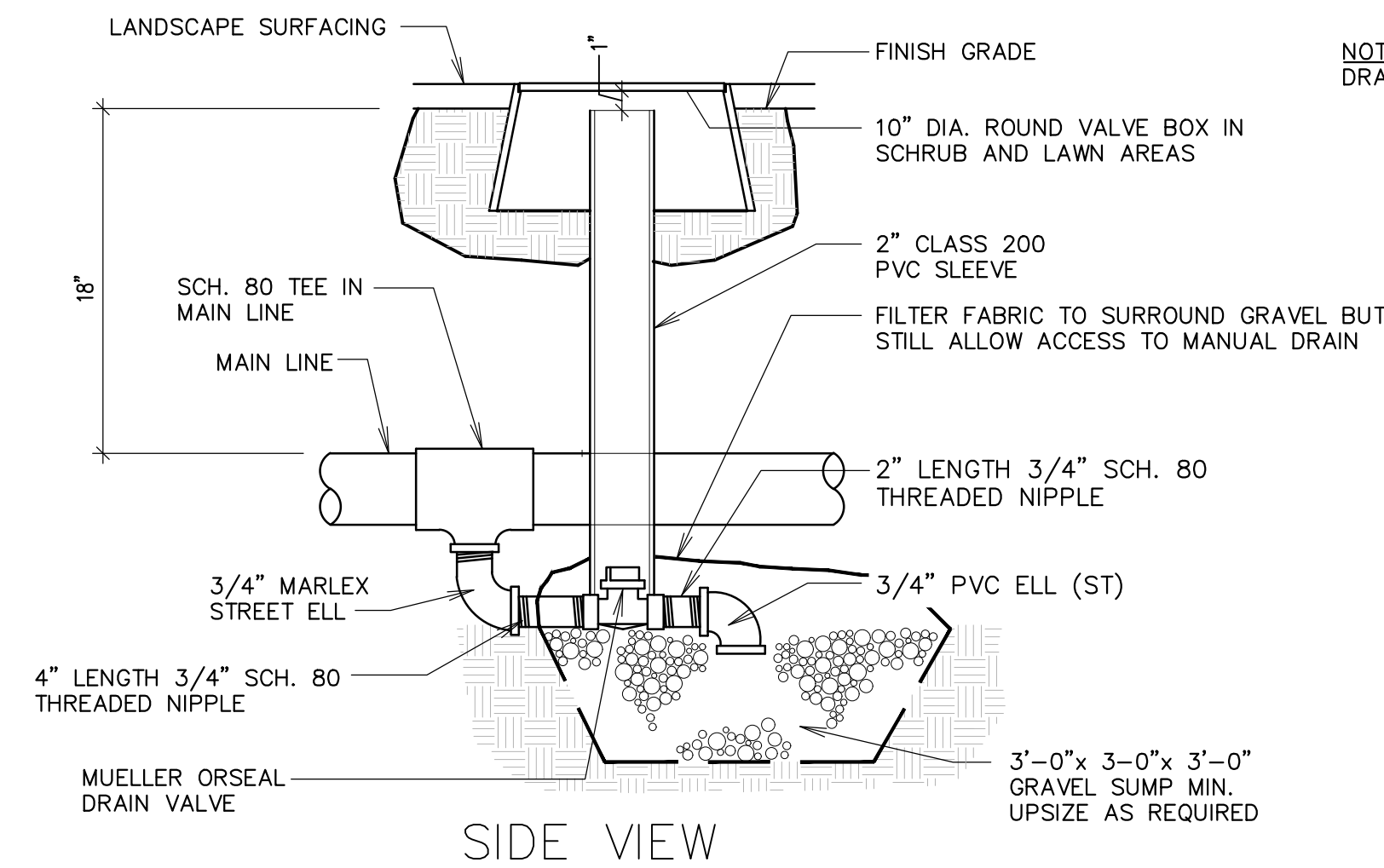
4 SPRAY HEAD ASSEMBLY



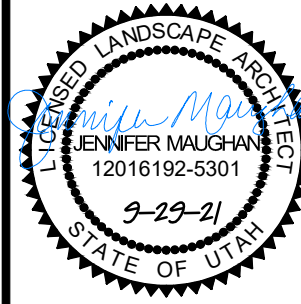
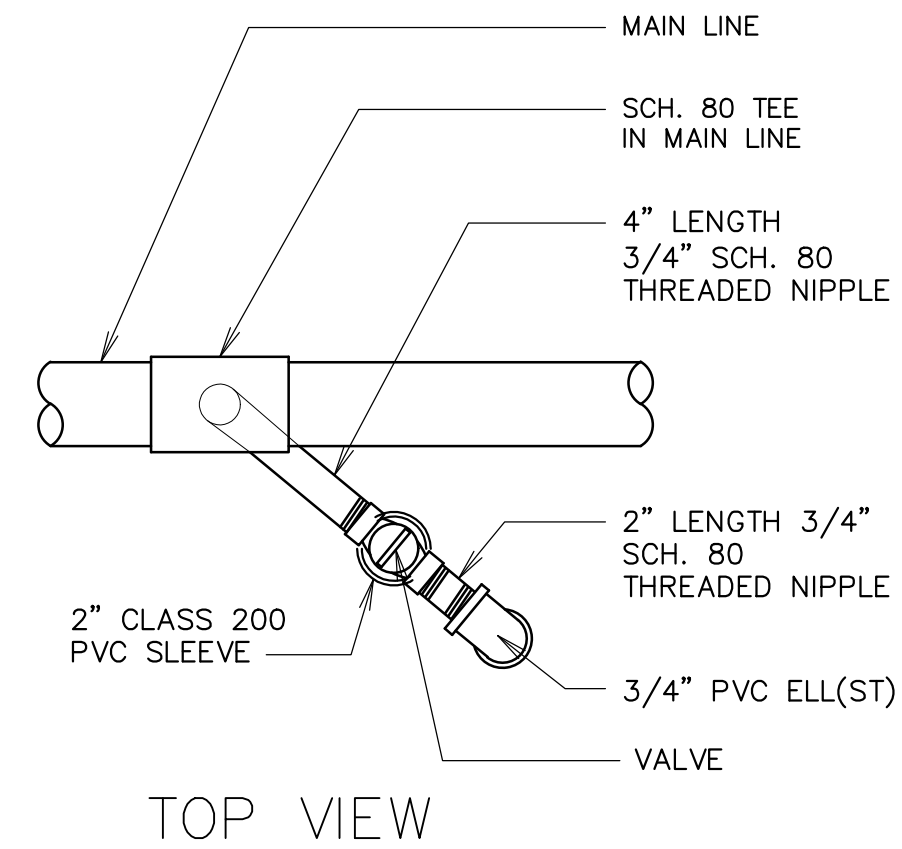
5 SPRAY HEAD NEXT TO CURB OR WALK



3 MANUAL DRAIN VALVE



NOTE:
DRAIN INTO CENTER OF GRAVEL SUMP



QUAD PORTAL
IRRIGATION DETAILS

QUAD PORTALS
UTAH STATE UNIVERSITY
LOGAN, UTAH 84321



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Suite 101
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435.713.0099

DATE:
29 SEPTEMBER 2021

SCALE:
NA

DESIGN BY:
J. MAUGHAN

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L. ANDERSON

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L. ANDERSON

PROJECT NUMBER:
690-2101

SHEET:

L201

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