DPW PROJECT No. 19193
BOISE STATE UNIVERSITY
SOUTH CAMPUS PRESSURIZED IRRIGATION
BOISE, IDAHO 83725

THE LAND GROUP

Engineer's Standard Notes:

1. TECHNICAL SPECIFICATIONS ARE AN INTEGRAL PART OF THESE DRAWINGS. UPON SUBMITTAL OF A BID PRICE BY THE CONTRACTOR, IT IS RECOGNIZED THAT THE CONTRACTOR HAS REVIEWED THE TECHNICAL SPECIFICATIONS AND THE CONTRACTOR AGREES TO ABIDE BY THE REQUIREMENTS AND CONDITIONS CONTAINED THEREIN.
2. THE CONTRACTOR SHALL AT ALL TIMES COORDINATE HIS WORK WITH THAT OF OTHERS ON THE SITE. THE CONTRACTOR SHALL HAVE A RESPONSIBLE PARTY WHO SHALL HAVE THE AUTHORITY TO REPRESENT AND ACT FOR THE CONTRACTOR ON THE JOB SITE DURING ALL WORKING HOURS.
3. THE CONTRACTOR IS RESPONSIBLE FOR PERFORMING ALL WORK INDICATED IN THESE PLANS AND SPECIFICATIONS. ANY ITEM INDICATED IN THESE PLANS, BUT NOT ITEMIZED IN THE BID DOCUMENTS, WILL BE INCLUDED UNDER A BID SCHEDULE ITEM TO WHICH IT MOST PERTAINS.
4. THE CONTRACTOR SHALL EXAMINE THE SITE, COMPARE IT WITH THE PLANS AND SPECIFICATIONS, CAREFULLY EXAMINE ALL OF THE CONTRACT DOCUMENTS, AND SATISFY HIMSELF AS TO THE CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED BEFORE ENTERING INTO CONTRACT. NO ALLOWANCE SHALL SUBSEQUENTLY BE MADE ON BEHALF OF THE CONTRACTOR ON ACCOUNT OF AN ERROR ON HIS PART AND/OR HIS NEGLIGENCE AND/OR FAILURE TO ACQUAINT HIMSELF WITH THE CONDITIONS OF THE SITE.
5. THE LOCATION OF EXISTING UNDERGROUND UTILITIES ON THESE PLANS ARE APPROXIMATE. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE ALL UNDERGROUND FACILITIES, HOWEVER THE LAND GROUP, INC. OR IT'S CONSULTANTS ASSUMES NO LIABILITY FOR THE ACCURACY OR COMPLETENESS OF THE EXISTING FACILITIES SHOWN HERE OR FOR THE EXISTENCE OF OTHER UNDERGROUND UTILITIES OR OBJECTS WHICH MAY BE DISCOVERED BUT ARE NOT SHOWN ON THESE PLANS. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ANY EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE DUE TO CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. THE CONTRACTOR SHALL CONTACT THE APPROPRIATE UTILITY COMPANIES OR DIG-LINE (1-800-342-1585) OR 811 FOR EXACT LOCATIONS A MINIMUM OF 48-HOURS PRIOR TO DIGGING.
6. ALL CONTRACTORS WORKING WITHIN THE PROJECT BOUNDARIES ARE RESPONSIBLE FOR COMPLIANCE WITH ALL APPLICABLE SAFETY LAWS OF ANY JURISDICTIONAL BODY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL BARRICADES, SAFETY DEVICES AND CONTROL OF TRAFFIC WITHIN AND AROUND THE CONSTRUCTION AREA. ALL TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE MUTCD. **DPW AND BSU REQUIRE AT MINIMUM A 6-FT HEIGHT SECURITY FENCE WITH LOCKABLE GATES ENCLOSING WORK AREA. WORK AREA SHALL BE SECURED AT ALL TIMES.**
7. ALL MATERIAL FURNISHED ON OR FOR THE PROJECT MUST MEET THE MINIMUM REQUIREMENTS OF THE APPROVING AGENCIES OR AS SET FORTH HEREIN, WHICHEVER IS MORE RESTRICTIVE. CONTRACTORS MUST FURNISH PROOF THAT ALL MATERIALS INSTALLED ON THIS PROJECT MEET THIS REQUIREMENT AT THE REQUEST OF THE APPROVING AGENCY AND/OR THE DESIGN PROFESSIONAL PRIOR TO FUND DISBURSEMENT COVERING SAID WORK.
8. WORK SUBJECT TO AGENCY OR PROJECT DESIGN PROFESSIONAL'S APPROVAL MUST BE APPROVED PRIOR TO (A) BACKFILLING TRENCHES FOR PIPE; (B) PLACING OF AGGREGATE BASE; (C) PLACING OF CONCRETE; (D) PLACING OF ASPHALT PAVING. WORK DONE WITHOUT SUCH APPROVAL SHALL NOT RELIEVE THE CONTRACTOR FROM THE RESPONSIBILITY OF PERFORMING THE WORK AS SPECIFIED.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING STREETS, SIDEWALKS, OR STRUCTURES DURING THE CONSTRUCTION OF THIS PROJECT, AND SHALL REPAIR SUCH DAMAGE TO THE SATISFACTION OF THE GOVERNING AGENCY, AT NO EXTRA COST TO THE OWNER.
10. ALL MATERIALS AND FINISHES SHALL BE AS PER DRAWINGS, DETAILS AND SPECIFICATIONS. SOME MATERIALS MAY REQUIRE SEVERAL WEEK ORDER LEAD TIME. CONTRACTOR IS RESPONSIBLE FOR DETERMINING ANY AND ALL ORDERING LEAD TIMES, AND PROVIDING REQUIRED MATERIALS AT THE PROJECT SITE IN A TIMELY MANNER. NO UNAPPROVED SUBSTITUTIONS WILL BE ALLOWED. CONTACT THE DESIGN PROFESSIONAL IMMEDIATELY IF A SPECIFIED MATERIAL IS NOT AVAILABLE.
11. ALL EXISTING CONDITIONS AND STRUCTURES, NOT SPECIFICALLY NOTED FOR REMOVAL, SHALL BE RETAINED AND PROTECTED. EXISTING CONDITIONS AND STRUCTURES THAT ARE DAMAGED DURING THE COURSE OF CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
12. ALL CONTRACTORS WORKING WITHIN THE PUBLIC RIGHT-OF-WAY ARE REQUIRED TO SECURE A RIGHT-OF-WAY CONSTRUCTION PERMIT FROM ADA COUNTY HIGHWAY DISTRICT (ACHD) AT LEAST 24-HOURS PRIOR TO ANY CONSTRUCTION.
13. THE CONTRACTOR SHALL PERFORM ALL CLEARING AND SITE PREPARATION NECESSARY FOR THE PROPER EXECUTION OF ALL WORK INDICATED ON THESE PLANS AND SPECIFICATIONS.
14. ALL WORK IS TO BE PERFORMED BY LICENSED CONTRACTORS AND EXPERIENCED WORKERS.
15. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS NECESSARY TO COMPLETE THE WORK, UNLESS OTHERWISE NOTED.
16. CONTRACTOR SHALL CONFORM TO ALL LOCAL CODES.
17. THE LAND GROUP, INC. DOES NOT AND CANNOT GUARANTEE THE ACCURACY OF WORK DONE BY OTHERS AND INCLUDES THIS INFORMATION FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. THE CONTRACTOR IS RESPONSIBLE TO CONTACT THE DESIGN PROFESSIONAL TO REQUEST CLARIFICATION OF DISCREPANCIES BETWEEN THE INFORMATION SHOWN ON THIS PLAN AND INFORMATION SHOWN ELSEWHERE. IN THE EVENT THE CONTRACTOR PROCEEDS WITH CONSTRUCTION WITHOUT SUCH CLARIFICATION FROM THE DESIGN PROFESSIONAL, HE SHALL BE LIABLE FOR THE COST OF CORRECTIVE WORK AND SHALL REPAIR OR RECONSTRUCT THE FAULTY WORK TO THE SATISFACTION OF THE DESIGN PROFESSIONAL AT NO ADDITIONAL COST TO THE OWNER.
18. THE HORIZONTAL SEPARATION BETWEEN WATER LINES AND NON-POTABLE LINES (INCLUDING SEWER, STORM DRAINS, AND IRRIGATION) SHALL COMPLY WITH ISPWC SD-407. ADD FITTING AS REQUIRED TO VERTICALLY RAISE OR LOWER PIPE TO MEET SEPARATION REQUIREMENTS.
19. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING, ERECTING AND MAINTAINING THE REQUIRED MATERIALS, EQUIPMENT AND MANPOWER NECESSARY FOR PUBLIC SAFETY AND TRAFFIC CONTROL, INCLUDING PEDESTRIAN TRAFFIC, WITHIN THE PROJECT LIMITS AND ON THE APPROACHES TO THE PROJECT.
20. THE CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONTRACTOR SHALL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY, AND THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY, AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL AND ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE DESIGN PROFESSIONAL.
21. IF ANY ARCHAEOLOGICAL, CULTURAL OR HISTORICAL RESOURCES, OR ARTIFACTS OR OTHER FEATURES ARE DISCOVERED DURING THE COURSE OF CONSTRUCTION ANYWHERE ON THE PROJECT SITE, WORK SHALL BE SUSPENDED IN THAT LOCATION UNTIL A QUALIFIED PROFESSIONAL ARCHAEOLOGIST ASSESSES THE SIGNIFICANCE OF THE DISCOVERY. THE OWNER SHALL BE NOTIFIED IMMEDIATELY OF ANY FINDS. IN CONSULTATION WITH THE ARCHAEOLOGIST AND THE GOVERNING AGENCY, APPROPRIATE MEASURES FOR PRESERVATION SHALL BE ESTABLISHED PRIOR TO THE COMMENCEMENT OF WORK.
22. CONTRACTOR SHALL HAVE A STAMPED AND APPROVED SET OF PLANS, A COMPLETE COPY OF THE IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION (ISPWC), LATEST EDITION, ACHD SUPPLEMENTAL SPECIFICATIONS AND CITY OF BOISE STANDARDS AT THE WORK SITE AT ALL TIMES.
23. CONTRACTOR SHALL KEEP AN APPROVED SET OF PLANS ON-SITE AT ALL TIMES AND RECORD AS-BUILT INFORMATION DURING THE COURSE OF CONSTRUCTION. UPON COMPLETION OF THE PROJECT, THE CONTRACTOR SHALL PROVIDE THE MARKED UP AS-BUILT PLANS TO THE DESIGN PROFESSIONAL FOR PREPARATION AND SUBMITTAL OF RECORD DRAWINGS.
24. CONTRACTOR SHALL COMPLY WITH ALL ADA ACCESSIBILITY REQUIREMENTS IN THE PUBLIC R.O.W THROUGHOUT THE DURATION OF THE PROJECT AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.
25. CONTRACTOR SHALL REPAIR OR REPLACE ALL IRRIGATION LINES THAT ARE DAMAGED DUE TO CONSTRUCTION. ENSURE 100% FUNCTIONALITY OF EXISTING IRRIGATION ZONES.

Survey As-Built Notes:

1. CONTRACTOR SHALL SURVEY ALL IRRIGATION LINES AND FITTINGS INSTALLED AS PART OF THIS PROJECT PRIOR TO THE BACKFILLING OF TRENCHES. SURVEY DATA SHALL THEN BE USED TO PRODUCE AN AUTOCAD AS BUILT RECORD DRAWING TO BE PROVIDED TO THE DESIGN PROFESSIONAL AND OWNER.

ACHD Standard Notes:

ACHD STANDARD CONDITIONS:
1. PRIVATE SEWER OR WATER SYSTEMS ARE PROHIBITED FROM BEING LOCATED WITHIN ANY ACHD ROADWAY OR RIGHT-OF-WAY.
2. REPLACE ANY EXISTING DAMAGED CURB, GUTTER AND SIDEWALK AND ANY THAT MAY BE DAMAGED DURING THE CONSTRUCTION OF THE PROPOSED DEVELOPMENT. CONTACT ACHD INSPECTION SERVICES AT 387-6284.
3. COMPLY WITH DISTRICT'S TREE PLANTER POLICY.
4. CONSTRUCT ALL UTILITY CUTS AND STREET REPAIRS PER SD-301, SD-303, AND SD-806. A TRAFFIC CONTROL PLAN WILL ALSO BE NECESSARY FOR ANY UTILITY CUT. SUBMIT ALL TRAFFIC CONTROL PLANS TO THE DISTRICT'S CONSTRUCTION SERVICES DIVISION FOR REVIEW AND APPROVAL. IT IS STRONGLY RECOMMENDED THAT THE NUMBER OF UTILITY CUTS WITHIN A STREET BE REDUCED TO THE FEWEST POSSIBLE.
5. UTILITY STREET CUTS IN PAVEMENT LESS THAN FIVE YEARS OLD ARE NOT ALLOWED UNLESS APPROVED IN WRITING BY THE DISTRICT. CONTACT THE DISTRICT'S UTILITY COORDINATOR AT 387-6258 (WITH FILE NUMBERS) FOR DETAILS.
6. CONSTRUCTION, USE AND PROPERTY DEVELOPMENT SHALL BE IN CONFORMANCE WITH ALL APPLICABLE REQUIREMENTS OF THE ACHD PRIOR TO DISTRICT APPROVAL FOR OCCUPANCY.
7. THE APPLICANT SHALL CONTACT ACHD TRAFFIC OPERATIONS 387-6190 IN THE EVENT ANY ACHD CONDUITS (SPARE OR FILLED) ARE COMPROMISED DURING ANY PHASE OF CONSTRUCTION.

ACHD ROADWAY NOTES:
1. ALL CONSTRUCTION IN THE PUBLIC RIGHT-OF-WAY SHALL CONFORM TO THE CURRENT EDITION OF THE ISPWC AND ACHD SUPPLEMENTAL SPECIFICATIONS. NO EXCEPTIONS TO DISTRICT POLICY, STANDARDS AND THE ISPWC WILL BE ALLOWED UNLESS SPECIFICALLY AND PREVIOUSLY APPROVED IN WRITING BY THE DISTRICT.
   - 1.1. ACTUAL FIELD CONDITIONS DURING TRENCHING MAY REQUIRE ADDITIONAL PAVEMENT REPAIR BEYOND THE LIMITS SHOWN ON THE PLANS. THE FOLLOWING CONDITIONS ARE LISTED IN SECTION 6000 OF ACHD POLICY MANUAL:
   - 1.2. ALL ASPHALT MATCH LINES FOR PAVEMENT REPAIR SHALL BE PARALLEL TO THE CENTERLINE OF THE STREET AND INCLUDE ANY AREA DAMAGED BY EQUIPMENT DURING TRENCHING OPERATIONS.
   - 1.2.1. IF THE CUMULATIVE DAMAGED PAVEMENT AREA EXCEEDS 50% OF THE TOTAL ROAD SURFACE, CONTRACTOR SHALL REPLACE THE ENTIRE ROADWAY SURFACE.
   - 1.2.2. CONTRACTOR SHALL REPLACE THE PAVEMENT SURFACE TO ENSURE MATCH LINE DOES NOT FALL WITHIN THE WHEEL PATH OF A LANE. MATCH LINE SHALL ONLY FALL IN THE CENTER OR EDGE OF A TRAVEL LANE.
   - 1.2.3. FLOWABLE FILL OR IMPORTED MATERIAL MAY BE REQUIRED IF THE NATIVE TRENCH MATERIAL IS DEEMED UNSUITABLE BY ACHD INSPECTOR, DOES NOT MEET COMPACTION STANDARDS OR TIME IS A CRITICAL FACTOR.
   - 1.2.4. ANY EXCEPTIONS TO THESE RULES SHALL BE PRE-APPROVED IN WRITING BY DISTRICT STAFF BEFORE CONSTRUCTION BEGINS.
   - 1.2.5. CONSTRUCT ALL PAVEMENT MATCHES (INCLUDING DRIVEWAY APPROACHES AND UTILITY CUT STREET REPAIRS) WITHIN ACHD RIGHTS-OF-WAY TO MATCH THE EXISTING STREET PAVEMENT SECTION OR THE SECTION NOTED ON THE ASPHALT PAVING SECTION DETAIL 4, SHEET C2.50. USE WHICHEVER SECTION IS GREATER.
2. PIPE TRENCH SHALL CONFORM TO THE LATEST EDITION OF THE I.S.P.W.C. DIVISION 300 AND SD-301. BEDDING AND BACKFILL SHALL BE CONSTRUCTED PER SECTIONS 305 AND 306 OF THE I.S.P.W.C.
3. ANY WORK IN THE PUBLIC RIGHT-OF-WAY REQUIRES INSPECTION AND APPROVAL BY ACHD CONSTRUCTION DIVISION. CONTACT INSPECTION SERVICES AT 387-6284 TO OBTAIN A PERMIT TO WORK IN THE RIGHT-OF-WAY. INSPECTION REQUESTS REQUIRE A MINIMUM OF 24-HOUR PRIOR NOTICE.
4. PRIOR TO PLACEMENT OF ANY PAVEMENT MARKINGS, COORDINATE WITH ACHD INSPECTION STAFF. ALL PAVEMENT MARKINGS SHALL COMPLY WITH ACHD POLICY AND ISPWC SECTION 1100. MARKINGS SHALL TRANSITION SMOOTHLY WITH EXISTING PAVEMENT MARKINGS.
5. ABANDONED BUILDINGS, TEST PITS OR WATERWAYS LOCATED WITHIN CURRENT OR FUTURE RIGHT-OF-WAY SHALL BE RE-EXCAVATED TO NATIVE SOIL AND BACKFILLED WITH STRUCTURAL FILL PER ISPWC SPECIFICATIONS. CONTRACTOR SHALL PROVIDE SOILS DATA TO VERIFY THAT NATIVE MATERIAL MEETS THE REQUIREMENTS FOR ENGINEERED FILL PER ISPWC SPECIFICATIONS AND A COPY OF THE COMPACTION TESTS.

Certification of Compliance with Design Standards:

THE ENGINEER OF RECORD CERTIFIES THAT THE PLANS ARE PREPARED IN SUBSTANTIAL CONFORMANCE WITH THE ACHD POLICY AND STANDARDS IN EFFECT AT THE TIME OF PREPARATION. THE ENGINEER ACKNOWLEDGES THAT ACHD ASSUMES NO LIABILITY FOR ERRORS OR DEFICIENCIES IN THE DESIGN. ALL VARIANCES FROM ACHD POLICY SHALL BE APPROVED IN WRITING. THE FOLLOWING VARIANCES, LISTED BY DATE AND SHORT DESCRIPTION, WERE APPROVED FOR THE PROJECT: NONE .

Sheet Index:

Sheet Index:

Project Description:

1. BASE BID: ALL WORK IN THE DRAWINGS AND PROJECT MANUAL.
2. ALTERNATES: NONE
3. PRESSURIZED MAINLINE ROUTING LINE WORK CAN BE OBTAINED FROM THE LAND GROUP INC. FOR SURVEY STAKING OF ALIGNMENT.
4. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING PRIVATE LOCATES OF ALL UTILITIES FOR ALL WORK AREA.

Irrigation Performance Notes:

1. SETUP AND COORDINATE WITH BSU MAINTENANCE STAFF FOR ALL FLOWMETER CONNECTIONS TO EXISTING BASELINE 3200 AND SUBSTATION CONTROLLERS.
2. INSTALL NETAFIM HYDROMETERS AS INDICATED ON PLANS. CONNECT TO CONTROL SYSTEM FOR FLOW MONITORING AND FLOW MANAGEMENT. NETAFIM THREADED HYDROMETER SHALL BE NORMALLY OPEN.
3. INSTALL 2-WIRE RUN TO NEAREST CONTROLLER TO CONNECT EACH HYDROMETER TO CONTROL SYSTEM. COORDINATE WITH BSU MAINTENANCE STAFF. REPAIR ANY AND ALL DAMAGE TO EXISTING LANDSCAPE AND HARDSCAPE TO PRE-CONSTRUCTION CONDITION AS A RESULT OF THIS WORK. ALL 2-WIRE SPLICES SHALL BE LOCATED OUTSIDE OF THE RIGHT-OF-WAY OR HARDSCAPE INSIDE A 10-INCH ROUND VALVE BOX.
4. SETUP AND CONFIGURE FLOW MONITORING FOR EACH FLOWMETER, TO INCLUDE:
   - 4.1. LEARN FLOW AND PROGRAM ALL WATER SOURCES
   - 4.2. FLOW MANAGEMENT TO MAXIMIZE THE NUMBER OF ZONES RUNNING CONCURRENTLY TO REDUCE OVERALL RUNTIME FOR EACH WATER SOURCE.

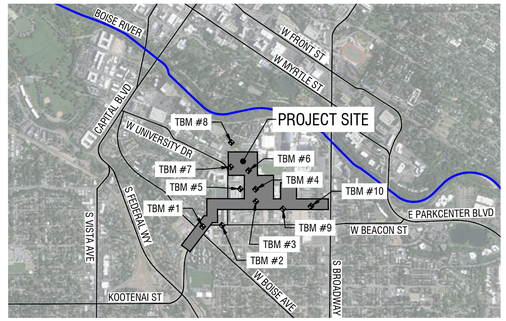
Concrete Notes:

1. ALL CONCRETE REMOVED OR DAMAGED DURING CONSTRUCTION SHALL BE SAWCUT TO THE NEAREST CONTROL JOINT. THE INTENT OF ALL SAWCUT LOCATIONS IS FOR THEM TO COINCIDE WITH EXISTING CONTROL JOINTS. CONTRACTOR SHALL FIELD ADJUST TO NEAREST JOINT WHERE APPLICABLE.

Drainage District #3 Notes:

THESE NOTES APPLY TO ALL WORK AFFECTING DRAIN A (DRAINAGE DISTRICT #3'S FACILITY)
1. PRIOR TO MOBILIZING, THE CONTRACTOR SHALL ATTEND A PRE-CONSTRUCTION CONFERENCE WITH DRAINAGE DISTRICT #3, TO BE COORDINATED BY THE DEVELOPER. THE MEETING ATTENDANCE SHALL INCLUDE THE DEVELOPER, DRAINAGE DISTRICT #3 SUPERINTENDENT AND ENGINEER, PROJECT ENGINEER, AND CONTRACTOR.
2. CONTRACTOR SHALL MANAGE ALL WATER GENERATED FROM DEWATERING ACTIVITIES ONSITE. IF CONTRACTOR CHOOSES TO DISCHARGE WATER OFFSITE AND TO WATERS WHICH ARE, OR ULTIMATELY FLOW TO, WATERS OF THE STATE THEN A "SHORT TERM ACTIVITY EXEMPTION" OR EQUIVALENT SHALL BE OBTAINED FROM THE DEPARTMENT OF ENVIRONMENTAL QUALITY. ALL PROPOSED DISCHARGES TO DRAINAGE DISTRICT #3 FACILITIES SHALL BE APPROVED IN WRITING BY THE DISTRICT PRIOR TO THE DISCHARGE OCCURRING. APPROVAL OF DISCHARGE TO DRAINAGE DISTRICT #3 FACILITIES REQUIRES SUBMITTAL OF A DEWATERING PLAN BY THE CONTRACTOR.
3. THE CONTRACTOR SHALL MAINTAIN DRAIN A IN AN OPERABLE CONDITION AT ALL TIMES. PRIOR TO STARTING WORK AFFECTING THE DRAIN, THE CONTRACTOR SHALL DEVELOP A TEMPORARY BYPASS PLAN FOR APPROVAL BY DRAINAGE DISTRICT #3 WHICH DESCRIBES THE CONTRACTOR'S PROPOSED METHODS AND EQUIPMENT TO MAINTAIN THE FULL FUNCTION OF DRAIN A AT ALL TIMES DURING CONSTRUCTION.
4. ALL FIELD QUALITY CONTROL TESTING REPORTS AFFECTING DRAIN A SHALL BE PROVIDED TO DRAINAGE DISTRICT #3.
5. ALL CONSTRUCTION MATERIALS AND INSTALLATION SHALL COMPLY WITH THE DRAINAGE DISTRICT #3 BOARD'S LATEST STANDARD SPECIFICATIONS. CURRENT DESIGN IS FORMATTED TO COMPLY WITH THESE STANDARD. CURRENT DESIGN IS FORMATTED TO COMPLY WITH THESE STANDARDS.
6. PIPE TRENCH SHALL CONFORM TO DIVISION 300 OF THE LATEST EDITION OF THE ISPWC AND SD-301. BEDDING AND BACKFILL SHALL BE CONSTRUCTED PER SECTIONS 305 AND 306 OF THE ISPWC.
7. SEE PLAN/PROFILE FOR PIPE ANGLES, PIPE SIZES, ELEVATIONS, AND DIRECTION OF FLOW.
8. DRAINAGE FACILITIES STRUCTURES SHALL HAVE A 12-IN SUMP. CURRENT DESIGN IS FORMATTED TO COMPLY WITH THESE STANDARDS.
9. ALL PIPES SHALL BE 42" RCP CL III. CURRENT DESIGN IS FORMATTED TO COMPLY WITH THESE STANDARDS.
10. ALL PIPE INSTALLATION SHALL BE INSPECTED BY THE PROJECT ENGINEER (THE LAND GROUP) OR HIS REPRESENTATIVE. 48-HOURS MINIMUM NOTICE IS REQUIRED.
11. ALL PIPE SECTIONS SHALL BE TESTED PER ISPWC DIVISION 500, SECTION 501. TESTING SHALL BE WITNESSED BY THE PROJECT ENGINEER (THE LAND GROUP) OR HIS REPRESENTATIVE. COPIES OF ALL TESTING REPORTS SHALL BE PROVIDED TO DRAINAGE DISTRICT #3'S ENGINEER. CONTACT INFORMATION: NICK KRAUS EMAIL: NKRAUS@QRS-LLC.COM

BSU Vicinity Map:



Survey Control & Benchmarks: NAVD '88 Datum

TBM 1 - TLG POINT #11, SCRIBED "X"
ELEVATION: 2707.23
NORTHING: 704453.25
EASTING: 2504737.89

TBM 2 - TLG POINT #14, SCRIBED "X"
ELEVATION: 2705.80
NORTHING: 704484.06
EASTING: 2505185.36

TBM 3 - TLG POINT #29, SCRIBED "X"
ELEVATION: 2698.82
NORTHING: 705035.87
EASTING: 2505972.03

TBM 4 - TLG POINT #36, SCRIBED "X"
ELEVATION: 2698.76
NORTHING: 705318.84
EASTING: 2505963.75

TBM 5 - TLG POINT #25 SCRIBED "X"
ELEVATION: 2698.36
NORTHING: 705326.07
EASTING: 2505610.64

TBM 6 - TLG POINT #23 SCRIBED "X"
ELEVATION: 2699.06
NORTHING: 705750.83
EASTING: 2505800.77

TBM 7 - TLG POINT #20 SCRIBED "X"
ELEVATION: 2698.96
NORTHING: 705836.05
EASTING: 2505384.18

TBM 8 - TLG POINT #15 SCRIBED "X"
ELEVATION: 2695.42
NORTHING: 706402.53
EASTING: 2505401.50

TBM 9 - TLG POINT #74 SCRIBED "X"
ELEVATION: 2701.07'
NORTHING: 704862.69
EASTING: 2506598.57

TBM 10 - TLG POINT #70 SCRIBED "X"
ELEVATION: 2704.00'
NORTHING: 704925.52
EASTING: 2507248.66

Project Contacts:

PROJECT MANAGEMENT:
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811

SOUTH CAMPUS PRESSURIZED IRRIGATION
BOISE STATE UNIVERSITY
1910 UNIVERSITY DRIVE
BOISE, IDAHO 83725

Revisions
1.	Addendum 2	04/23/2024
2.	Addendum 3	05/16/2024
3.	Addendum 4	05/20/2024
4.	Addendum 5	05/21/2024
5.	Addendum 6	05/29/2024
6.	ACHD Comments	06/20/2024
7.	Conformance Set	07/22/2024
8.	DD3 Comments	07/30/2024

PROFESSIONAL ENGINEER REGISTERED 10961 STATE OF IDAHO JASON DENSMER
07/30/2024

Project No.: 118145
Date of Issuance: 04/3/2024
Project Milestone: Bid Set Documents

Construction Drawings
Cover & Notes

C0.00

SOUTH CAMPUS PRESSURIZED IRRIGATION
BOISE STATE UNIVERSITY

1910 UNIVERSITY DRIVE
BOISE, IDAHO 83725

THE LAND GROUP

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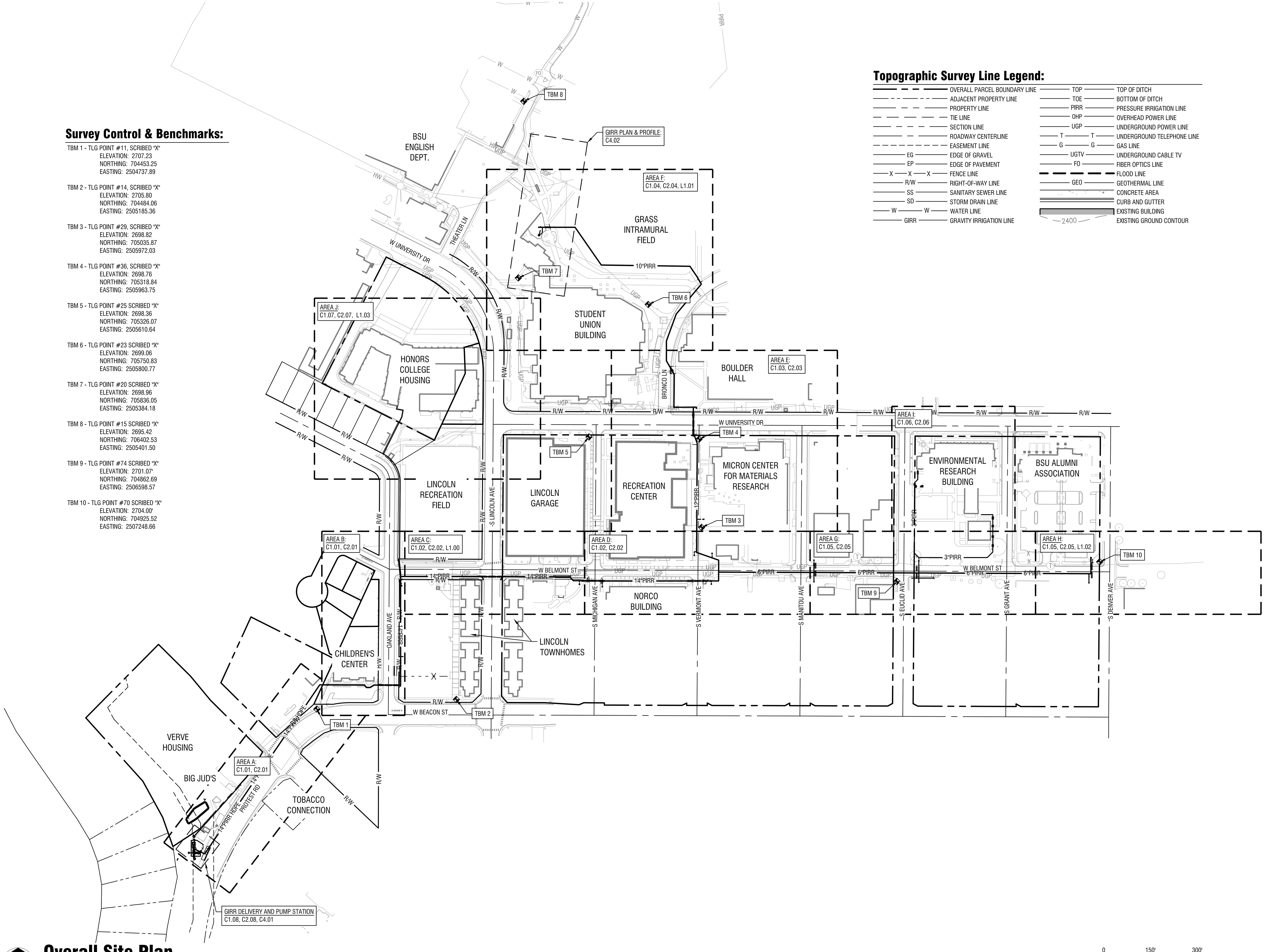
Topographic Survey Line Legend:

Symbol	Description	Symbol	Description
	OVERALL PARCEL BOUNDARY LINE	TOP	TOP OF DITCH
	ADJACENT PROPERTY LINE	TOE	BOTTOM OF DITCH
	PROPERTY LINE	PIRR	PRESSURE IRRIGATION LINE
	TIE LINE	OHP	OVERHEAD POWER LINE
	SECTION LINE	UGP	UNDERGROUND POWER LINE
	ROADWAY CENTERLINE	T	UNDERGROUND TELEPHONE LINE
	EASEMENT LINE	G	GAS LINE
EG	EDGE OF GRAVEL	UGTV	UNDERGROUND CABLE TV
EP	EDGE OF PAVEMENT	FO	FIBER OPTICS LINE
X	FENCE LINE		FLOOD LINE
R/W	RIGHT-OF-WAY LINE	GEO	GEOTHERMAL LINE
SS	SANITARY SEWER LINE		CONCRETE AREA
SD	STORM DRAIN LINE		CURB AND GUTTER
W	WATER LINE		EXISTING BUILDING
GIRR	GRAVITY IRRIGATION LINE	2400	EXISTING GROUND CONTOUR



Overall Site Plan

Horizontal Scale: 1" = 150'

0 150' 300'

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1.	Addendum 2	04/23/2024
2.	Addendum 3	05/16/2024
3.	Addendum 4	05/20/2024
4.	Addendum 5	05/21/2024
5.	Addendum 6	05/29/2024
6.	ACHD Comments	06/20/2024
7.	Conformance Set	07/22/2024
8.	DD3 Comments	07/30/2024

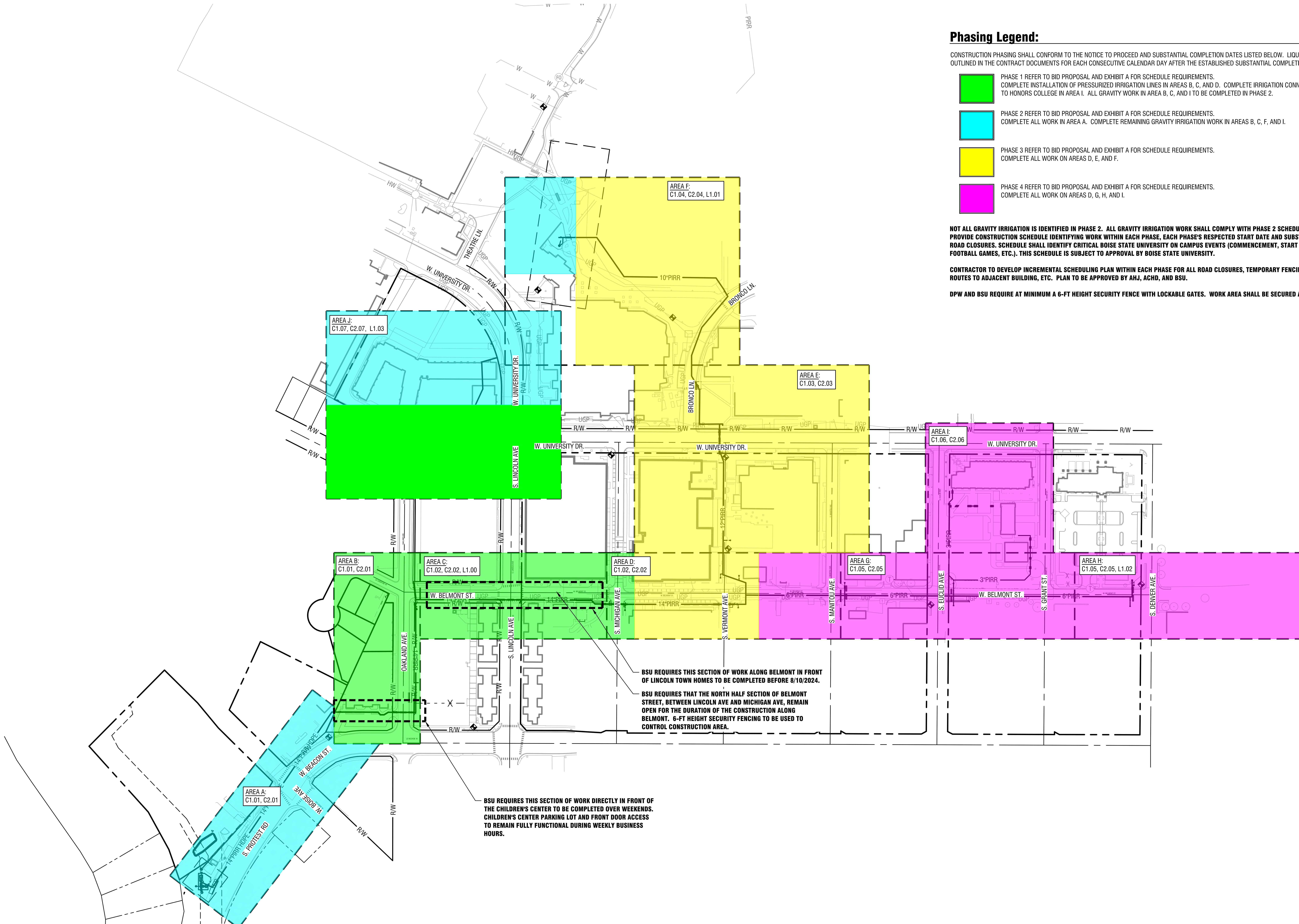
PROFESSIONAL ENGINEER
REGISTERED
10961
STATE OF IDAHO
JASON DENSMER

07/30/2024

Project No.: 118145
Date of Issuance: 04/3/2024
Project Milestone: Bid Set Documents

Construction Drawings
Overall Site Plan

C0.01



Phasing Legend:

CONSTRUCTION PHASING SHALL CONFORM TO THE NOTICE TO PROCEED AND SUBSTANTIAL COMPLETION DATES LISTED BELOW. LIQUIDATED DAMAGES WILL BE ASSESSED AS OUTLINED IN THE CONTRACT DOCUMENTS FOR EACH CONSECUTIVE CALENDAR DAY AFTER THE ESTABLISHED SUBSTANTIAL COMPLETION DATE.

- PHASE 1 REFER TO BID PROPOSAL AND EXHIBIT A FOR SCHEDULE REQUIREMENTS. COMPLETE INSTALLATION OF PRESSURIZED IRRIGATION LINES IN AREAS B, C, AND D. COMPLETE IRRIGATION CONNECTION TO HONORS COLLEGE IN AREA I. ALL GRAVITY WORK IN AREA B, C, AND I TO BE COMPLETED IN PHASE 2.
- PHASE 2 REFER TO BID PROPOSAL AND EXHIBIT A FOR SCHEDULE REQUIREMENTS. COMPLETE ALL WORK IN AREA A. COMPLETE REMAINING GRAVITY IRRIGATION WORK IN AREAS B, C, F, AND I.
- PHASE 3 REFER TO BID PROPOSAL AND EXHIBIT A FOR SCHEDULE REQUIREMENTS. COMPLETE ALL WORK ON AREAS D, E, AND F.
- PHASE 4 REFER TO BID PROPOSAL AND EXHIBIT A FOR SCHEDULE REQUIREMENTS. COMPLETE ALL WORK ON AREAS D, G, H, AND I.

NOT ALL GRAVITY IRRIGATION IS IDENTIFIED IN PHASE 2. ALL GRAVITY IRRIGATION WORK SHALL COMPLY WITH PHASE 2 SCHEDULE REQUIREMENTS. CONTRACTOR SHALL PROVIDE CONSTRUCTION SCHEDULE IDENTIFYING WORK WITHIN EACH PHASE, EACH PHASE'S RESPECTED START DATE AND SUBSTANTIAL COMPLETION DATE, TEMPORARY ROAD CLOSURES. SCHEDULE SHALL IDENTIFY CRITICAL BOISE STATE UNIVERSITY ON CAMPUS EVENTS (COMMENCEMENT, START AND END OF SEMESTERS, HOME FOOTBALL GAMES, ETC.). THIS SCHEDULE IS SUBJECT TO APPROVAL BY BOISE STATE UNIVERSITY.

CONTRACTOR TO DEVELOP INCREMENTAL SCHEDULING PLAN WITHIN EACH PHASE FOR ALL ROAD CLOSURES, TEMPORARY FENCING, BLOCKADES, TEMPORARY EGRESS ROUTES TO ADJACENT BUILDING, ETC. PLAN TO BE APPROVED BY AHJ, ACHD, AND BSU.

DPW AND BSU REQUIRE AT MINIMUM A 6-FT HEIGHT SECURITY FENCE WITH LOCKABLE GATES. WORK AREA SHALL BE SECURED AT ALL TIMES.

Phasing Plan

Horizontal Scale: 1" = 150'

0 150' 300'

THE LAND GROUP

SOUTH CAMPUS PRESSURIZED IRRIGATION
BOISE STATE UNIVERSITY

1910 UNIVERSITY DRIVE
BOISE, IDAHO 83725

Revisions

1.	Addendum 2	04/23/2024
2.	Addendum 3	05/16/2024
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PROFESSIONAL ENGINEER REGISTERED 10961 STATE OF IDAHO JASON DENSMER

07/30/2024

Project No.: 118145
Date of Issuance: 04/3/2024
Project Milestone: Bid Set Documents

Construction Drawings
Phasing Plan

C0.02

Bubbler

Scale: NTS

Bubbler

Scale: NTS

Bubbler

Scale: NTS

Existing Pump Station

Scale: NTS

Existing Pump Station

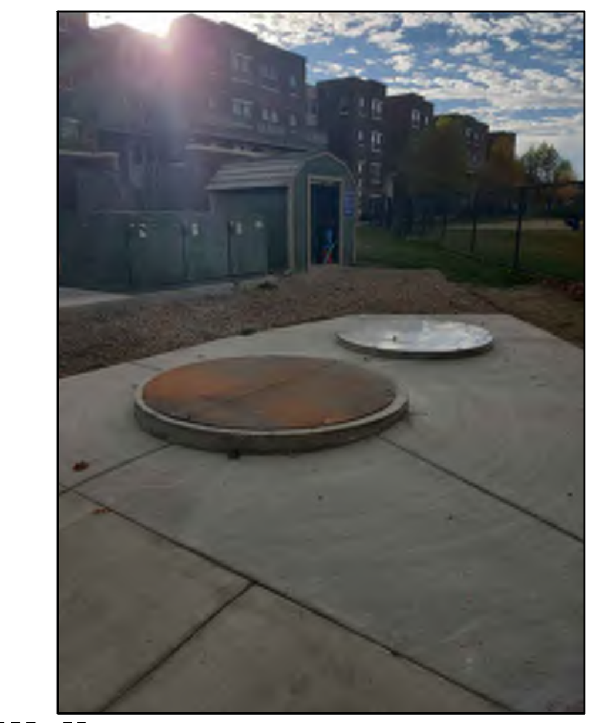
Scale: NTS

Existing Pump Station

Scale: NTS

Existing Wet Well

Scale: NTS



Existing Wet Well

Scale: NTS

Rossi Mill Ditch A

Scale: NTS

Rossi Mill Ditch A

Scale: NTS

Rossi Mill Ditch A

Scale: NTS

Rossi Mill Ditch A

Scale: NTS

Rossi Mill Ditch A

Scale: NTS

Rossi Mill Ditch A

Scale: NTS

Honors College Pumpstation

Scale: NTS

Honors College Pumpstation

Scale: NTS

THE LAND GROUP

SOUTH CAMPUS PRESSURIZED IRRIGATION
BOISE STATE UNIVERSITY

1910 UNIVERSITY DRIVE
BOISE, IDAHO 83725

Revisions 1 ----

1.	Addendum 2	04/23/2024
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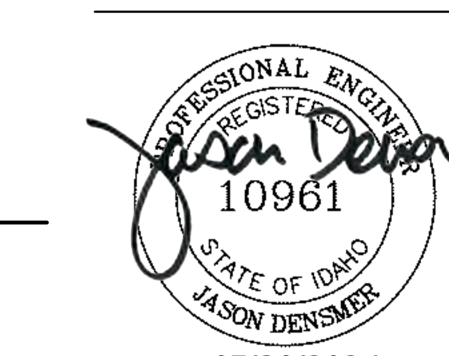

07/30/2024

Project No.: 118145
Date of Issuance: 04/3/2024
Project Milestone: Bid Set Documents

Construction Drawings
Site Photes

C0.03

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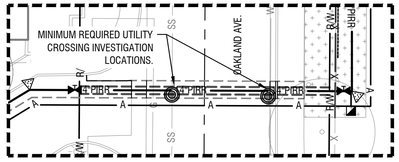
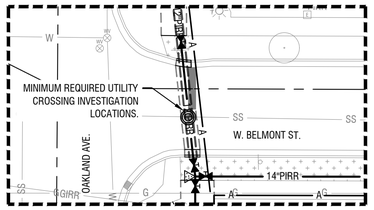
Last Plotted By:michael thomas
Date Plotted: Tuesday, July 30 2024 at 01:10 PM



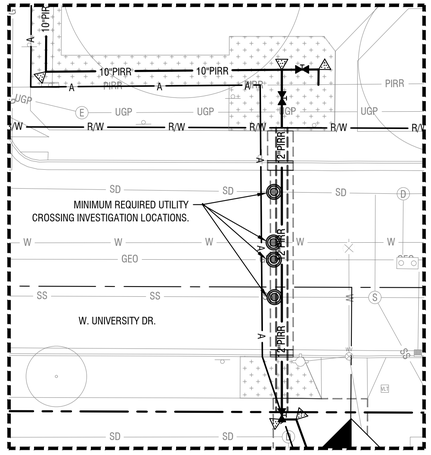
1 Oakland Ave.

Scale: NTS



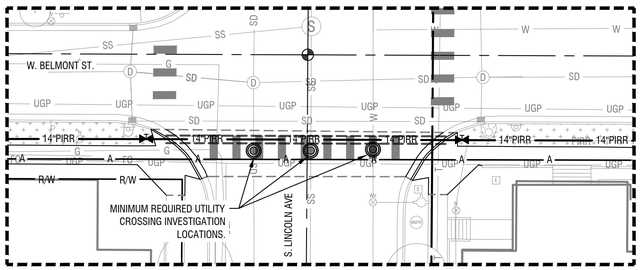
2 Oakland Ave. and Belmont St.

Scale: NTS



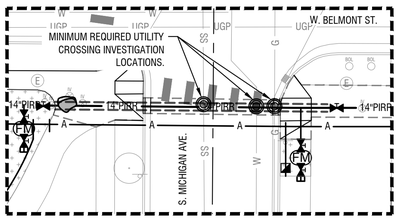
6 University Dr.

Scale: NTS



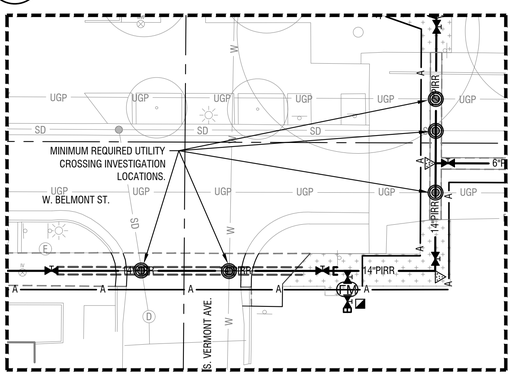
3 Belmont St. and Lincoln Ave.

Scale: NTS



4 Belmont St. and Michigan Ave.

Scale: NTS



5 Belmont St. and Vermont Ave.

Scale: NTS

Hydrovac Excavation

Horizontal Scale: 1" = 150'

0 150' 300'

Hydrovac Excavation Requirements:

CONTRACTOR MUST PERFORM WITHIN THE FIRST 30 DAYS AFTER THE NOTICE TO PROCEED HYDROVAC EXCAVATION EXPLORATION FOR THE UTILITIES IN THE STREET CROSSING SHOWN ON THIS SHEET AND THOSE IDENTIFIED BY UTILITY MARKING. THE CONTRACTOR IS TO PROVIDE INFORMATION FOR THE FOLLOWING.

- FOR THE EXPLORATORY WORK, THE CONTRACTOR WILL NEED TO APPLY FOR AN ACHD RIGHT OF WAY PERMIT, PROVIDE A TRAFFIC CONTROL PLAN FOR REVIEW AND COMPLY WITH ANY BONDING REQUIREMENTS.
- CONTACT 811 AND HAVE ALL UTILITIES MARKED IN THE STREET RIGHT OF WAY PRIOR TO EXPLORATORY BORE HOLES.
- POTHOLING/HYDROVAC TO DETERMINE THE DEPTH, SIZE, AND TYPE OF UTILITY.
- ALL HYDROVAC HOLES ARE TO BE REPAIRED PER SURFACE REPAIR DETAIL ISPWC SD-303 ACHD SUPPLEMENTAL DRAWING.
- CONTRACTOR TO DEVELOP A REPORT ON UTILITY INFORMATION AND PROVIDE TO THE ENGINEER FOR REVIEW.
- IF A UTILITY INTERFERES WITH THE ROUTE OF THE PIPE/SLEEVE CONTRACTOR TO SUGGEST A SOLUTION.

THE LAND GROUP

SOUTH CAMPUS PRESSURIZED IRRIGATION
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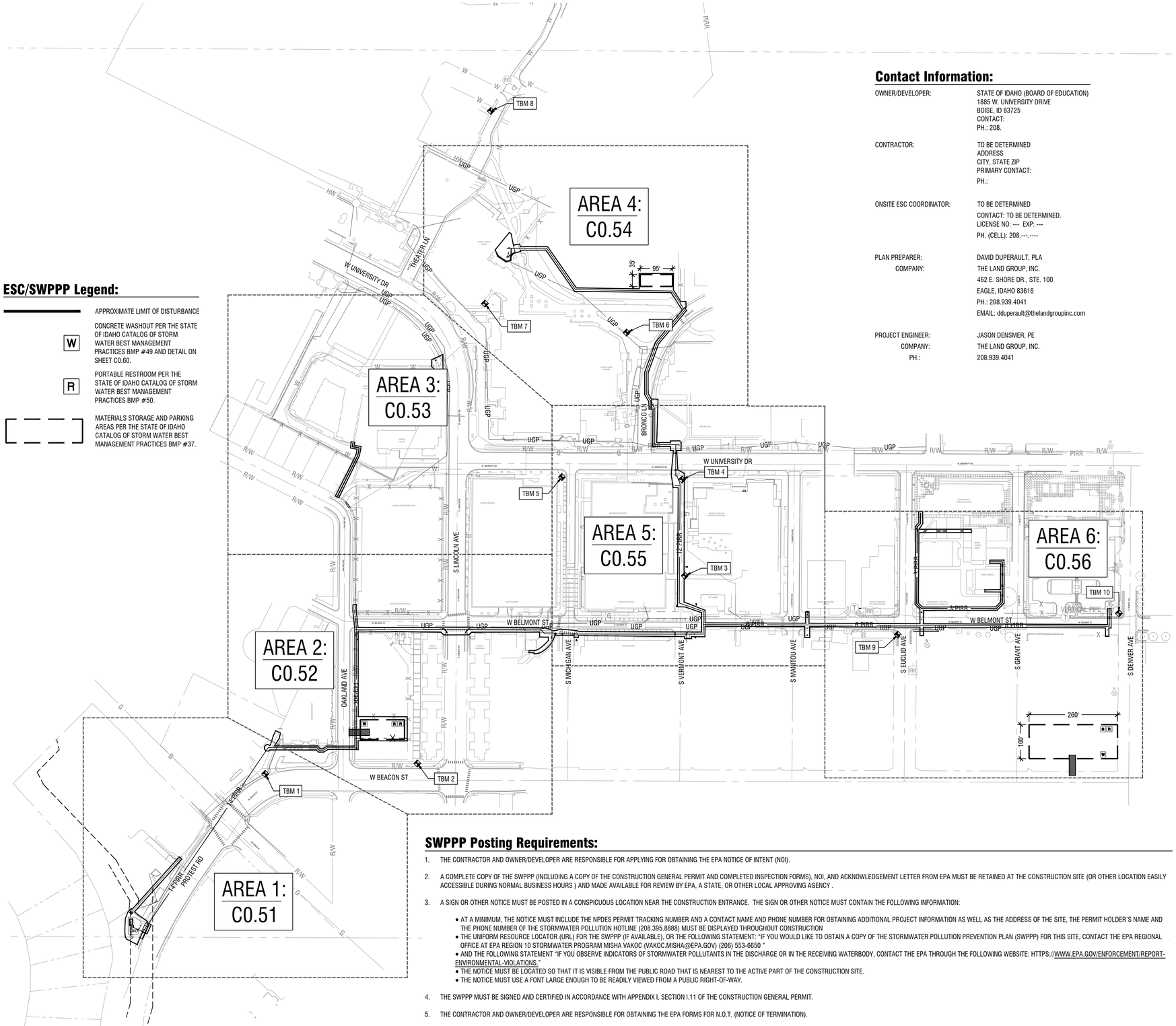
PROFESSIONAL ENGINEER
REGISTERED
10961
STATE OF IDAHO
JASON DENSMER

07/30/2024

Project No.: 118145
Date of Issuance: 04/3/2024
Project Milestone: Bid Set Documents

Construction Drawings
Hydrovac Excavation

C0.04



ESC/SWPPP Legend:

- APPROXIMATE LIMIT OF DISTURBANCE
- [W] CONCRETE WASHOUT PER THE STATE OF IDAHO CATALOG OF STORM WATER BEST MANAGEMENT PRACTICES BMP #49 AND DETAIL ON SHEET C0.60.
- [R] PORTABLE RESTROOM PER THE STATE OF IDAHO CATALOG OF STORM WATER BEST MANAGEMENT PRACTICES BMP #50.
- MATERIALS STORAGE AND PARKING AREAS PER THE STATE OF IDAHO CATALOG OF STORM WATER BEST MANAGEMENT PRACTICES BMP #37.

Contact Information:

OWNER/DEVELOPER:	STATE OF IDAHO (BOARD OF EDUCATION) 1885 W. UNIVERSITY DRIVE BOISE, ID 83725 CONTACT: PH.: 208.
CONTRACTOR:	TO BE DETERMINED ADDRESS CITY, STATE ZIP PRIMARY CONTACT: PH.:
ONSITE ESC COORDINATOR:	TO BE DETERMINED CONTACT: TO BE DETERMINED. LICENSE NO: --- EXP: --- PH. (CELL): 208.---.----
PLAN PREPARER:	DAVID DUPERAULT, PLA
COMPANY:	THE LAND GROUP, INC. 462 E. SHORE DR., STE. 100 EAGLE, IDAHO 83616 PH.: 208.939.4041 EMAIL: dduperault@thelandgroupinc.com
PROJECT ENGINEER:	JASON DENSMER, PE
COMPANY:	THE LAND GROUP, INC.
PH.:	208.939.4041

SWPPP General Notes:

1. ALL BMP NUMBERS ARE REFERENCED FROM IDAHO DEQ BEST MANAGEMENT PRACTICES.
2. ALL STORM WATER WILL BE CONTAINED ON SITE.
3. ALL BMP'S SHALL BE INSPECTED AT A MINIMUM OF ONCE EVERY 7 DAYS -OR- ONCE EVERY 14 DAYS AND WITHIN 24 HOURS OF A STORM EVENT PRODUCING 0.25 INCHES OR GREATER. INSPECTION FREQUENCY MAY BE REDUCED TO ONCE EVERY MONTH IF:
   A. THE ENTIRE SITE IS TEMPORARILY STABILIZED, OR
   B. RUNOFF IS UNLIKELY DUE TO WINTER CONDITIONS, OR
   C. CONSTRUCTION IS OCCURRING DURING SEASONAL ARID PERIODS (MAY THROUGH SEPTEMBER) IN ARID AREAS AND SEMI-ARID AREAS.
3. DEWATERING IS NOT EXPECTED FOR THIS SITE. ONSITE SWPPP CONTRACTOR IS RESPONSIBLE FOR ALL NON-STORMWATER MANAGEMENT.
4. STREET SWEEPING WILL BE IMPLEMENTED ON AN AS-NEEDED BASIS AS DETERMINED BY THE SWPPP RESPONSIBLE PERSON.
5. PROVIDE WASTE CONTAINERS FOR BUILDING MATERIALS IN WASTE STORAGE CONTAINMENT AREA. WASTE DISPOSAL DUMPSTERS MUST HAVE LIDS, OR PROVIDE COVER OR A SIMILARLY EFFECTIVE MEANS TO MINIMIZE THE DISCHARGE OF POLLUTANTS. KEEP WASTE CONTAINER LIDS CLOSED WHEN NOT IN USE AND AT THE END OF THE BUSINESS DAY. DISPOSE AT A FREQUENCY ACCORDING TO CONTAINER SIZE.
6. LOCATE ALL PORTABLE RESTROOMS AS FAR FROM PUBLIC AND PRIVATE STORM DRAIN SYSTEMS AS POSSIBLE. ANCHOR TO PREVENT VANDALISM.
11. SLURRY AND CUTTINGS FROM SAWCUTTING OF CONCRETE OR ASPHALT SHALL BE VACUUMED DURING CUTTING AND SURFACING OPERATIONS. SLURRY AND CUTTINGS SHALL NOT REMAIN ON PERMANENT CONCRETE OR ASPHALT PAVEMENT OVERNIGHT. SLURRY AND CUTTINGS SHALL NOT DRAIN TO ANY NATURAL OR CONSTRUCTED DRAINAGE CONVEYANCE. COLLECTED SLURRY AND CUTTINGS SHALL BE DISPOSED OF IN A MANNER THAT DOES NOT VIOLATE GROUNDWATER OR SURFACE WATER QUALITY STANDARDS.
12. ALL EXCESS MATERIALS SHALL BE HAULED OFF SITE AND DISPOSED OF AT AN APPROVED LOCATION. EXCESS MATERIAL MAY BE TEMPORARILY STORED ON SITE (IF APPROVED BY THE OWNER) AT A PRE-APPROVED LOCATION. IF MATERIAL IS STOCKPILED FOR MORE THAN 14 DAYS STOCKPILE IS TO BE STABILIZED PER BMP #44,
13. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE ISPWC.
14. SEE LANDSCAPE AND MATERIALS PLANS FOR INFORMATION CONCERNING FINAL SOIL STABILIZATION MEASURES.
15. ALL GRADING, UTILITY, AND ROADWAY CONSTRUCTION SHALL BE LIMITED TO THE HOURS BETWEEN 7:00 A.M. AND 9:00 P.M. MONDAY THROUGH FRIDAY AND 8:00 A.M. TO 9:00 P.M. SATURDAY AND SUNDAY, UNLESS OTHERWISE APPROVED BY THE CONSTRUCTION MANAGER.
16. ANY MODIFICATIONS TO THIS PLAN REQUIRE APPROVAL OF THE DESIGNER OR THE ONSITE RESPONSIBLE PERSON.
17. TOTAL DISTURBED AREA FOR THIS ON-SITE WORK IS APPROXIMATELY: **2.22 ACRES.**
18. UPON CONTRACT APPROVAL BY THE CONTRACTOR, IT IS RECOGNIZED THAT THE CONTRACTOR HAS REVIEWED THE PLAN DRAWINGS AND THE CONTRACTOR AGREES TO ABIDE BY THE REQUIREMENTS AND CONDITIONS CONTAINED HEREIN.

Soil Stabilization (15,17,18,21,23):

1. IF SEDIMENT ESCAPES THE CONSTRUCTION SITE, OFF-SITE ACCUMULATIONS OF SEDIMENT MUST BE REMOVED AT A FREQUENCY SUFFICIENT TO MINIMIZE OFF-SITE IMPACTS.
2. LITTER, CONSTRUCTION DEBRIS, AND CONSTRUCTION CHEMICALS THAT COULD BE EXPOSED TO STORM WATER MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE IN STORM WATER DISCHARGES.
3. EXCEPT AS PROVIDED BELOW, STABILIZATION MEASURES MUST BE INITIATED AS SOON AS PRACTICAL IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAT 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED.
   - 3.1. WHERE STABILIZATION BY THE 14th DAY IS PRECLUDED BY SNOW COVER OR FROZEN GROUND CONDITIONS, STABILIZATION MEASURES MUST BE INITIATED AS SOON AS PRACTICAL.
   - 3.2. WHERE CONSTRUCTION ACTIVITY ON A PORTION OF THE SITE IS TEMPORARILY CEASED, AND EARTH DISTURBING ACTIVITIES WILL BE RESUMED WITHIN 14 DAYS, TEMPORARY STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE.

NOTE: ONE OF THE FOLLOWING TEMPORARY SOIL STABILIZATION PRACTICES SHALL BE IMPLEMENTED ON ALL DISTURBED AREAS AND/OR WHERE SHOWN ON PLAN, UNLESS CONDITIONS AS LISTED ABOVE DICTATE OTHERWISE:

1. MULCHING (BMP 52) - APPLY GRAVEL, STRAW, GRASS, COMPOST, WOOD CHIPS OR WOOD FIBERS TO DISTURBED AREAS TO PREVENT EROSION. SEE APPENDIX F OF THE ESC/SWPPP NARRATIVE FOR A COMPLETE DESCRIPTION, **AND/OR**:
2. GEOTEXTILE (BMP 53) - APPLY NONBIODEGRADABLE SYNTHETIC FABRIC TO DISTURBED AREAS TO PREVENT EROSION. SEE APPENDIX F OF THE ESC/SWPPP NARRATIVE FOR A COMPLETE DESCRIPTION, **AND/OR**:
3. MATTING (BMP 54) - APPLY BIODEGRADABLE WOVEN OR JUTE FIBER MAT TO DISTURBED AREAS TO PREVENT EROSION. SEE APPENDIX F OF THE ESC/SWPPP NARRATIVE FOR A COMPLETE DESCRIPTION.

PERMANENT SOIL STABILIZATION BMPS:
LANDSCAPING (BMP 32) - COORDINATE WITH THE APPROVED LANDSCAPE PLAN FOR LOCATIONS AND TIMING.

SWPPP Posting Requirements:

1. THE CONTRACTOR AND OWNER/DEVELOPER ARE RESPONSIBLE FOR APPLYING FOR OBTAINING THE EPA NOTICE OF INTENT (NOI).
2. A COMPLETE COPY OF THE SWPPP (INCLUDING A COPY OF THE CONSTRUCTION GENERAL PERMIT AND COMPLETED INSPECTION FORMS), NOI, AND ACKNOWLEDGEMENT LETTER FROM EPA MUST BE RETAINED AT THE CONSTRUCTION SITE (OR OTHER LOCATION EASILY ACCESSIBLE DURING NORMAL BUSINESS HOURS) AND MADE AVAILABLE FOR REVIEW BY EPA, A STATE, OR OTHER LOCAL APPROVING AGENCY .
3. A SIGN OR OTHER NOTICE MUST BE POSTED IN A CONSPICUOUS LOCATION NEAR THE CONSTRUCTION ENTRANCE. THE SIGN OR OTHER NOTICE MUST CONTAIN THE FOLLOWING INFORMATION:
   - AT A MINIMUM, THE NOTICE MUST INCLUDE THE NPDES PERMIT TRACKING NUMBER AND A CONTACT NAME AND PHONE NUMBER FOR OBTAINING ADDITIONAL PROJECT INFORMATION AS WELL AS THE ADDRESS OF THE SITE, THE PERMIT HOLDER'S NAME AND THE PHONE NUMBER OF THE STORMWATER POLLUTION HOTLINE (208.395.8888) MUST BE DISPLAYED THROUGHOUT CONSTRUCTION
   - THE UNIFORM RESOURCE LOCATOR (URL) FOR THE SWPPP (IF AVAILABLE), OR THE FOLLOWING STATEMENT: "IF YOU WOULD LIKE TO OBTAIN A COPY OF THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) FOR THIS SITE, CONTACT THE EPA REGIONAL OFFICE AT EPA REGION 10 STORMWATER PROGRAM MISHA VAKOC (VAKOC.MISHA@EPA.GOV) (206) 553-6650 "
   - AND THE FOLLOWING STATEMENT "IF YOU OBSERVE INDICATORS OF STORMWATER POLLUTANTS IN THE DISCHARGE OR IN THE RECEIVING WATERBODY, CONTACT THE EPA THROUGH THE FOLLOWING WEBSITE: HTTPS://WWW.EPA.GOV/ENFORCEMENT/REPORT-ENVIRONMENTAL-VIOLATIONS."
   - THE NOTICE MUST BE LOCATED SO THAT IT IS VISIBLE FROM THE PUBLIC ROAD THAT IS NEAREST TO THE ACTIVE PART OF THE CONSTRUCTION SITE.
   - THE NOTICE MUST USE A FONT LARGE ENOUGH TO BE READILY VIEWED FROM A PUBLIC RIGHT-OF-WAY.
4. THE SWPPP MUST BE SIGNED AND CERTIFIED IN ACCORDANCE WITH APPENDIX I, SECTION I.11 OF THE CONSTRUCTION GENERAL PERMIT.
5. THE CONTRACTOR AND OWNER/DEVELOPER ARE RESPONSIBLE FOR OBTAINING THE EPA FORMS FOR N.O.T. (NOTICE OF TERMINATION).

SWPPP - Overall

Horizontal Scale: 1" = 150'

0 150' 300'

THE LAND GROUP

SOUTH CAMPUS PRESSURIZED IRRIGATION
BOISE STATE UNIVERSITY

1910 UNIVERSITY DRIVE
BOISE, IDAHO 83725

Revisions		
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PROFESSIONAL ENGINEER — REGISTERED — 10961 — STATE OF IDAHO — JASON DENSMER

07/30/2024

Project No.:	118145
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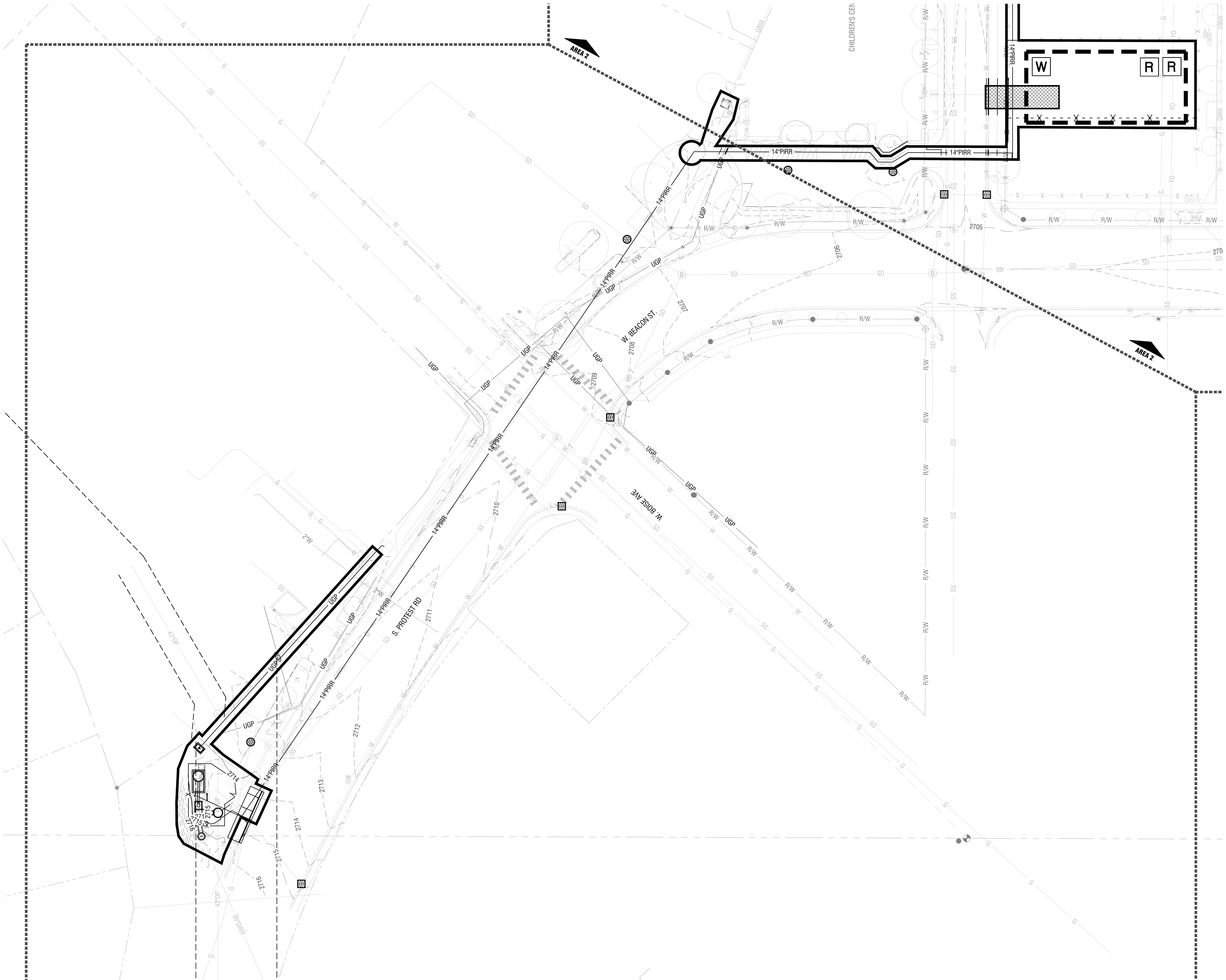
SWPPP Overall

C0.50



SWPPP - Area 1

Horizontal Scale: 1" = 40'

0 40' 80'

ESC/SWPPP Legend

- APPROXIMATE LIMIT OF DISTURBANCE
- PROPOSED GROUND CONTOUR (ONE-FOOT INTERVAL) — 2698
- EXISTING GROUND CONTOUR (ONE-FOOT INTERVAL) — 2698
- FW — FIBER ROLL PER STATE OF IDAHO CATALOG OF STORM WATER BEST MANAGEMENT PRACTICES BMP #64. SEE DETAILS ON SHEET C0.60.
- X — TEMPORARY CONSTRUCTION FENCE
- W — CONCRETE WASHOUT PER THE STATE OF IDAHO CATALOG OF STORM WATER BEST MANAGEMENT PRACTICES BMP #49 AND DETAIL ON SHEET C0.60.
- R — PORTABLE RESTROOM PER THE STATE OF IDAHO CATALOG OF STORM WATER BEST MANAGEMENT PRACTICES BMP #50.
- RECTANGULAR DROP INLET PROTECTION TYPE I PER BMP #13, SEE SHEET C0.60 FOR DETAILS.
- CIRCULAR DROP INLET PROTECTION TYPE III PER BMP #13, SEE SHEET C0.60 FOR DETAILS.
- MATERIALS STORAGE AND PARKING AREAS PER THE STATE OF IDAHO CATALOG OF STORM WATER BEST MANAGEMENT PRACTICES BMP #37.
- PROVIDE STABILIZED ENTRANCE PER THE STATE OF IDAHO CATALOG OF STORM WATER BEST MANAGEMENT PRACTICES BMP #40. THIS SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION UNTIL ASPHALT BASE MATERIAL IS INSTALLED. PROVIDE SWEEPING DAILY OR AS NEEDED TO REMOVE ANY TRACKING OF MUD AND/OR DIRT ONTO EXISTING ASPHALT. SEE SHEET C0.60 FOR DETAILS.

REFER TO MATERIALS SHEETS C2.01 - C2.08 FOR FINAL STABILIZATION MATERIALS.

THE LAND GROUP

SOUTH CAMPUS PRESSURIZED IRRIGATION
BOISE STATE UNIVERSITY

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Revisions 1

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PROFESSIONAL ENGINEER REGISTERED 10961 STATE OF IDAHO JASON DENSMER

07/30/2024

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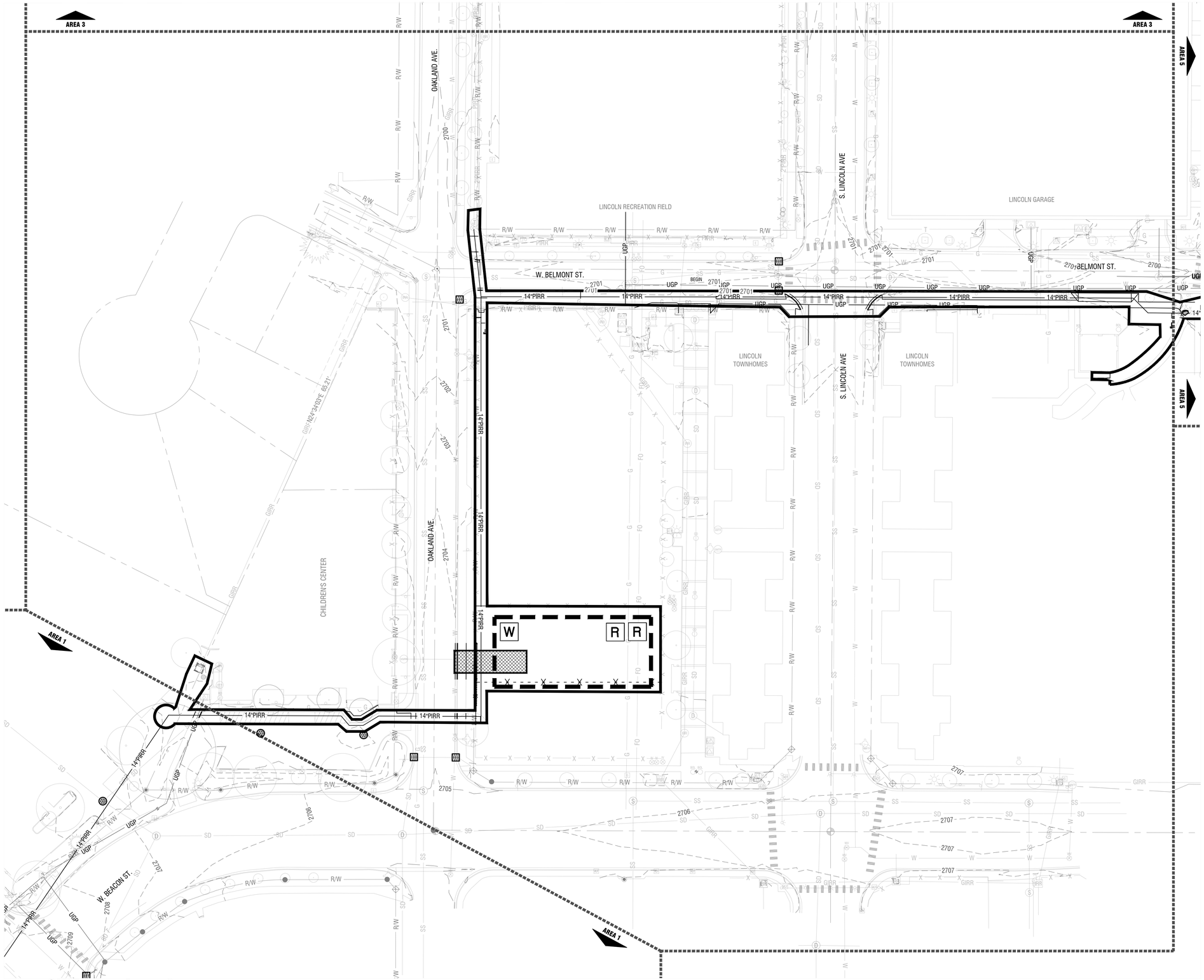
SWPPP
Area 1

C0.51



SWPPP - Area 2

Horizontal Scale: 1" = 40'

0 40' 80'

ESC/SWPPP Legend

- APPROXIMATE LIMIT OF DISTURBANCE
- PROPOSED GROUND CONTOUR (ONE-FOOT INTERVAL)
- EXISTING GROUND CONTOUR (ONE-FOOT INTERVAL)
- FW — FIBER ROLL PER STATE OF IDAHO CATALOG OF STORM WATER BEST MANAGEMENT PRACTICES BMP #64. SEE DETAILS ON SHEET C0.60.
- W — CONCRETE WASHOUT PER THE STATE OF IDAHO CATALOG OF STORM WATER BEST MANAGEMENT PRACTICES BMP #49 AND DETAIL ON SHEET C0.60.
- R — PORTABLE RESTROOM PER THE STATE OF IDAHO CATALOG OF STORM WATER BEST MANAGEMENT PRACTICES BMP #50.
- RECTANGULAR DROP INLET PROTECTION TYPE I PER BMP #13, SEE SHEET C0.60 FOR DETAILS.
- CIRCULAR DROP INLET PROTECTION TYPE III PER BMP #13, SEE SHEET C0.60 FOR DETAILS.
- MATERIALS STORAGE AND PARKING AREAS PER THE STATE OF IDAHO CATALOG OF STORM WATER BEST MANAGEMENT PRACTICES BMP #37.
- PROVIDE STABILIZED ENTRANCE PER THE STATE OF IDAHO CATALOG OF STORM WATER BEST MANAGEMENT PRACTICES BMP #40. THIS SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION UNTIL ASPHALT BASE MATERIAL IS INSTALLED. PROVIDE SWEEPING DAILY OR AS NEEDED TO REMOVE ANY TRACKING OF MUD AND/OR DIRT ONTO EXISTING ASPHALT. SEE SHEET C0.60 FOR DETAILS.

REFER TO MATERIALS SHEETS C2.01 - C2.08 FOR FINAL STABILIZATION MATERIALS.

THE LAND GROUP

SOUTH CAMPUS PRESSURIZED IRRIGATION
BOISE STATE UNIVERSITY

1910 UNIVERSITY DRIVE
BOISE, IDAHO 83725

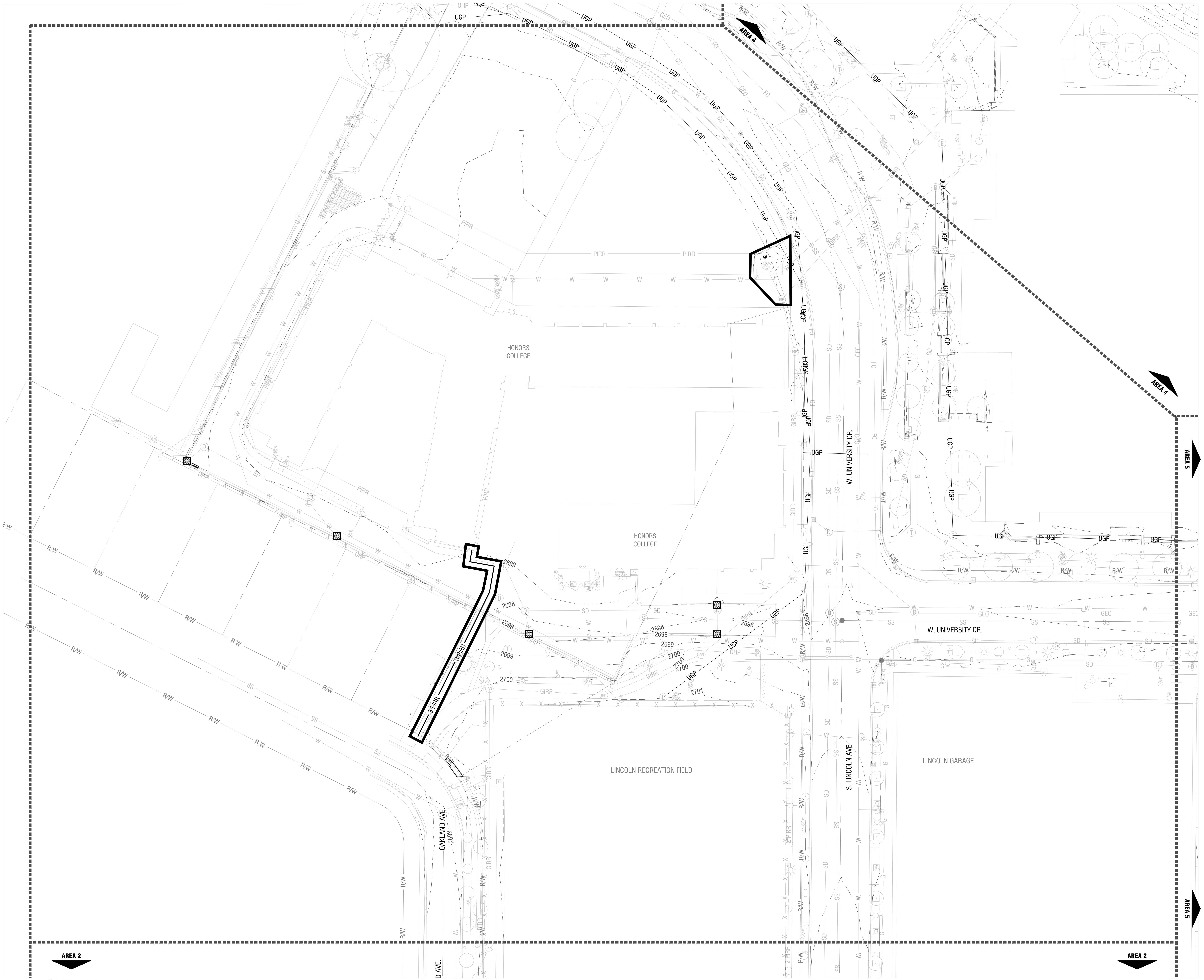
Revisions		
1.	Addendum 2	04/23/2024
2.	Addendum 3	05/16/2024
3.	Addendum 4	05/20/2024
4.	Addendum 5	05/21/2024
5.	Addendum 6	05/29/2024
6.	ACHD Comments	06/20/2024
7.	Conformance Set	07/22/2024
8.	DD3 Comments	07/30/2024

PROFESSIONAL ENGINEER
REGISTERED
10961
STATE OF IDAHO
JASON DENSMER
07/30/2024

Project No.: 118145
Date of Issuance: 04/3/2024
Project Milestone: Bid Set Documents

SWPPP
Area 2

C0.52



SWPPP - Area 3

Horizontal Scale: 1" = 40'

0 40' 80'

ESC/SWPPP Legend

APPROXIMATE LIMIT OF DISTURBANCE

PROPOSED GROUND CONTOUR (ONE-FOOT INTERVAL)

EXISTING GROUND CONTOUR (ONE-FOOT INTERVAL)

FIBER ROLL PER STATE OF IDAHO CATALOG OF STORM WATER BEST MANAGEMENT PRACTICES BMP #64, SEE DETAILS ON SHEET C0.60.

W — CONCRETE WASHOUT PER THE STATE OF IDAHO CATALOG OF STORM WATER BEST MANAGEMENT PRACTICES BMP #49 AND DETAIL ON SHEET C0.60.

R — PORTABLE RESTROOM PER THE STATE OF IDAHO CATALOG OF STORM WATER BEST MANAGEMENT PRACTICES BMP #50.

RECTANGULAR DROP INLET PROTECTION TYPE I PER BMP #13, SEE SHEET C0.60 FOR DETAILS.

CIRCULAR DROP INLET PROTECTION TYPE III PER BMP #13, SEE SHEET C0.60 FOR DETAILS.

MATERIALS STORAGE AND PARKING AREAS PER THE STATE OF IDAHO CATALOG OF STORM WATER BEST MANAGEMENT PRACTICES BMP #37.

PROVIDE STABILIZED ENTRANCE PER THE STATE OF IDAHO CATALOG OF STORM WATER BEST MANAGEMENT PRACTICES BMP #40. THIS SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION UNTIL ASPHALT BASE MATERIAL IS INSTALLED. PROVIDE SWEEPING DAILY OR AS NEEDED TO REMOVE ANY TRACKING OF MUD AND/OR DIRT ONTO EXISTING ASPHALT. SEE SHEET C0.60 FOR DETAILS.

REFER TO MATERIALS SHEETS C2.01 - C2.08 FOR FINAL STABILIZATION MATERIALS.

THE LAND GROUP

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Revisions

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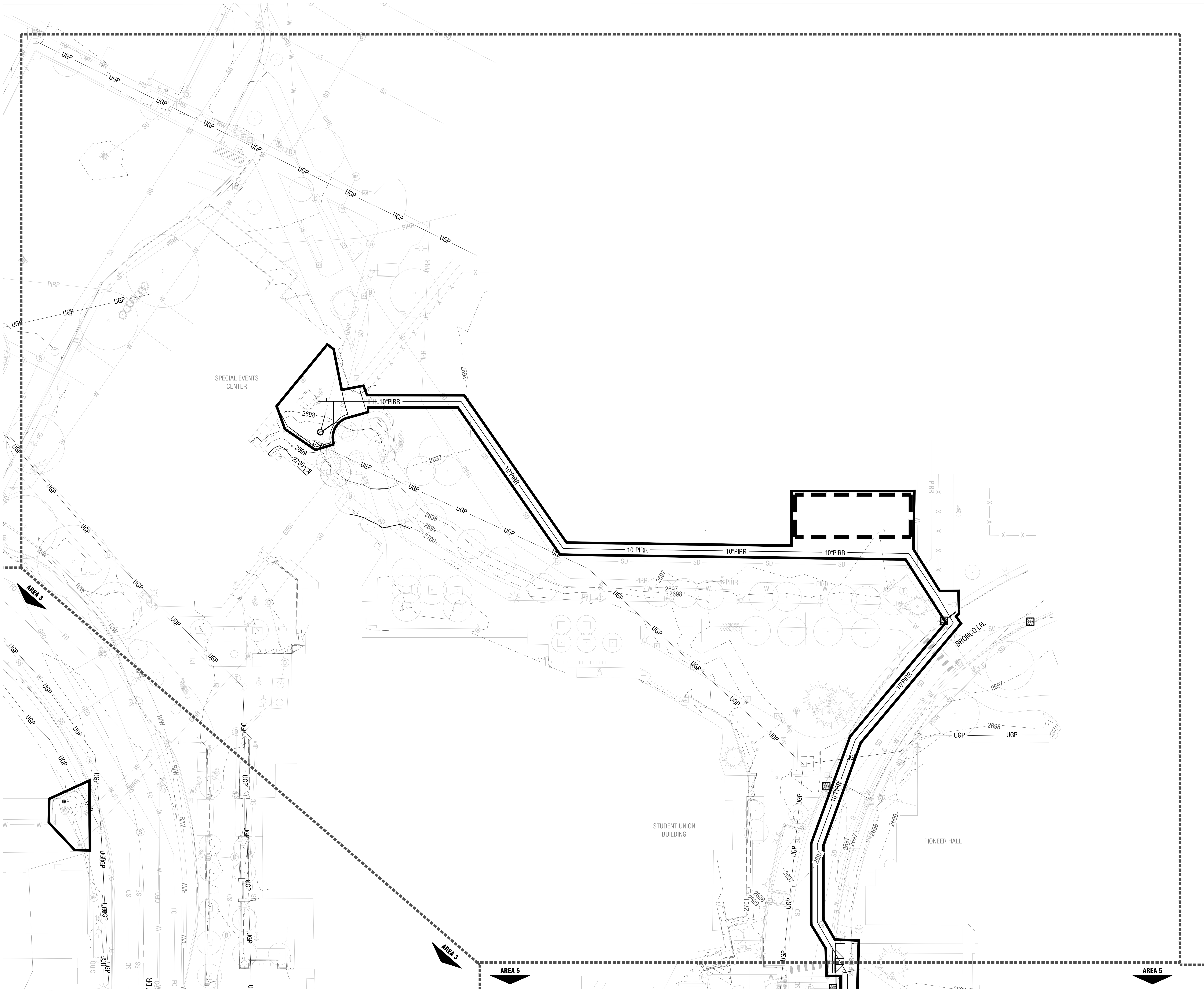
SWPPP
Area 3

C0.53



SWPPP - Area 4

Horizontal Scale: 1" = 40'

ESC/SWPPP Legend

- APPROXIMATE LIMIT OF DISTURBANCE
- PROPOSED GROUND CONTOUR (ONE-FOOT INTERVAL) — 2698
- EXISTING GROUND CONTOUR (ONE-FOOT INTERVAL) — 2698
- FW — FIBER ROLL PER STATE OF IDAHO CATALOG OF STORM WATER BEST MANAGEMENT PRACTICES BMP #64. SEE DETAILS ON SHEET C0.60.
- W — CONCRETE WASHOUT PER THE STATE OF IDAHO CATALOG OF STORM WATER BEST MANAGEMENT PRACTICES BMP #49 AND DETAIL ON SHEET C0.60.
- R — PORTABLE RESTROOM PER THE STATE OF IDAHO CATALOG OF STORM WATER BEST MANAGEMENT PRACTICES BMP #50.
- RECTANGULAR DROP INLET PROTECTION TYPE I PER BMP #13, SEE SHEET C0.60 FOR DETAILS.
- CIRCULAR DROP INLET PROTECTION TYPE III PER BMP #13, SEE SHEET C0.60 FOR DETAILS.
- MATERIALS STORAGE AND PARKING AREAS PER THE STATE OF IDAHO CATALOG OF STORM WATER BEST MANAGEMENT PRACTICES BMP #37.
- PROVIDE STABILIZED ENTRANCE PER THE STATE OF IDAHO CATALOG OF STORM WATER BEST MANAGEMENT PRACTICES BMP #40. THIS SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION UNTIL ASPHALT BASE MATERIAL IS INSTALLED. PROVIDE SWEEPING DAILY OR AS NEEDED TO REMOVE ANY TRACKING OF MUD AND/OR DIRT ONTO EXISTING ASPHALT. SEE SHEET C0.60 FOR DETAILS.

REFER TO MATERIALS SHEETS C2.01 - C2.08 FOR FINAL STABILIZATION MATERIALS.

THE LAND GROUP

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BOISE, IDAHO 83725

Revisions 1

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07/30/2024

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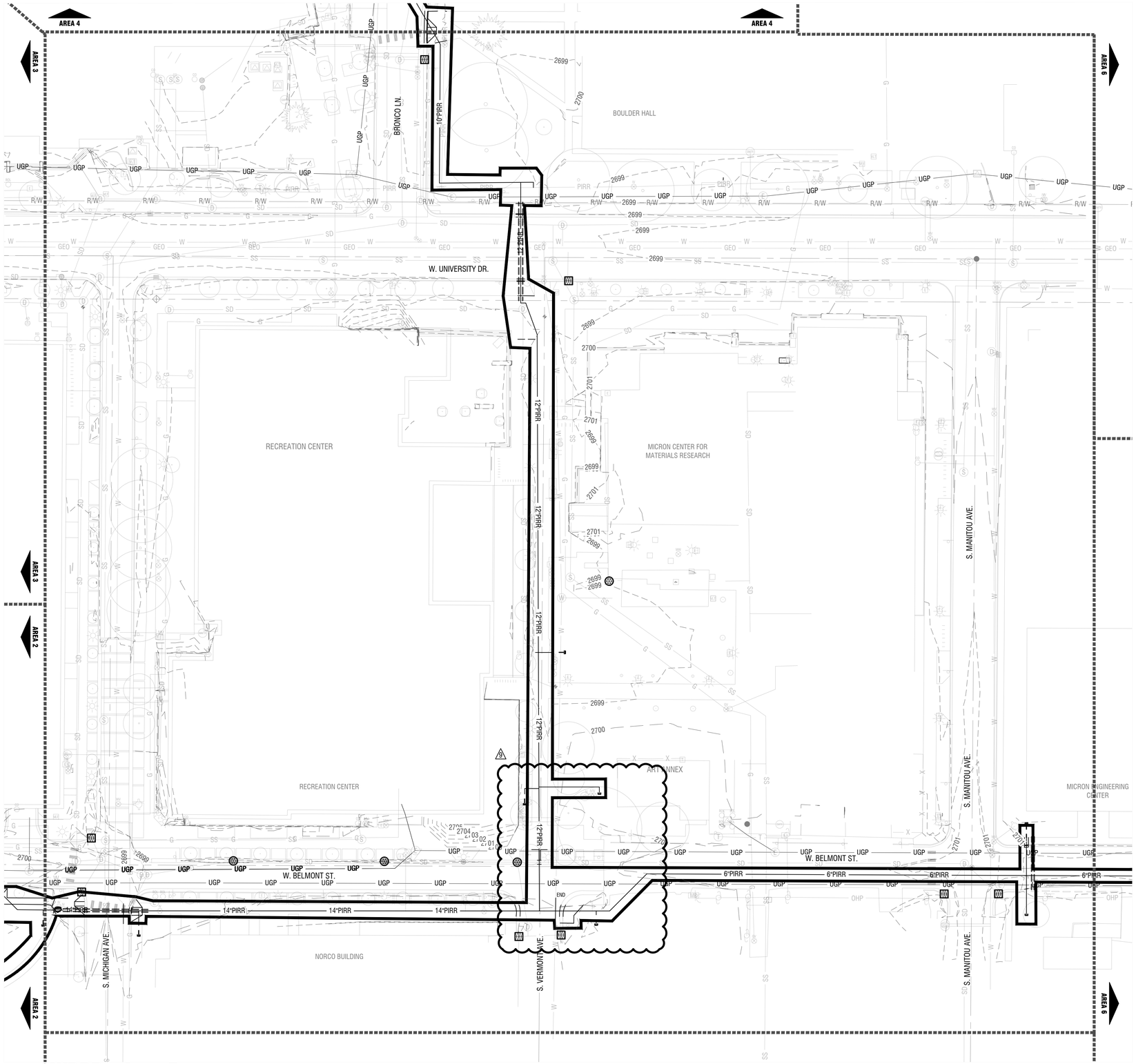
SWPPP
Area 4

C0.54



SWPPP - Area 5

Horizontal Scale: 1" = 40'

0 40' 80'

ESC/SWPPP Legend

- APPROXIMATE LIMIT OF DISTURBANCE
- 2698 — PROPOSED GROUND CONTOUR (ONE-FOOT INTERVAL)
- 2698 — EXISTING GROUND CONTOUR (ONE-FOOT INTERVAL)
- FW — FIBER ROLL PER STATE OF IDAHO CATALOG OF STORM WATER BEST MANAGEMENT PRACTICES BMP #64. SEE DETAILS ON SHEET C0.60.
- W — CONCRETE WASHOUT PER THE STATE OF IDAHO CATALOG OF STORM WATER BEST MANAGEMENT PRACTICES BMP #49 AND DETAIL ON SHEET C0.60.
- R — PORTABLE RESTROOM PER THE STATE OF IDAHO CATALOG OF STORM WATER BEST MANAGEMENT PRACTICES BMP #50.
- RECTANGULAR DROP INLET PROTECTION TYPE I PER BMP #13, SEE SHEET C0.60 FOR DETAILS.
- CIRCULAR DROP INLET PROTECTION TYPE III PER BMP #13, SEE SHEET C0.60 FOR DETAILS.
- MATERIALS STORAGE AND PARKING AREAS PER THE STATE OF IDAHO CATALOG OF STORM WATER BEST MANAGEMENT PRACTICES BMP #37.
- PROVIDE STABILIZED ENTRANCE PER THE STATE OF IDAHO CATALOG OF STORM WATER BEST MANAGEMENT PRACTICES BMP #40. THIS SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION UNTIL ASPHALT BASE MATERIAL IS INSTALLED. PROVIDE SWEEPING DAILY OR AS NEEDED TO REMOVE ANY TRACKING OF MUD AND/OR DIRT ONTO EXISTING ASPHALT. SEE SHEET C0.60 FOR DETAILS.

REFER TO MATERIALS SHEETS C2.01 - C2.08 FOR FINAL STABILIZATION MATERIALS.

THE LAND GROUP

SOUTH CAMPUS PRESSURIZED IRRIGATION
BOISE STATE UNIVERSITY

1910 UNIVERSITY DRIVE
BOISE, IDAHO 83725

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9.	Veolia comments	08/29/2024

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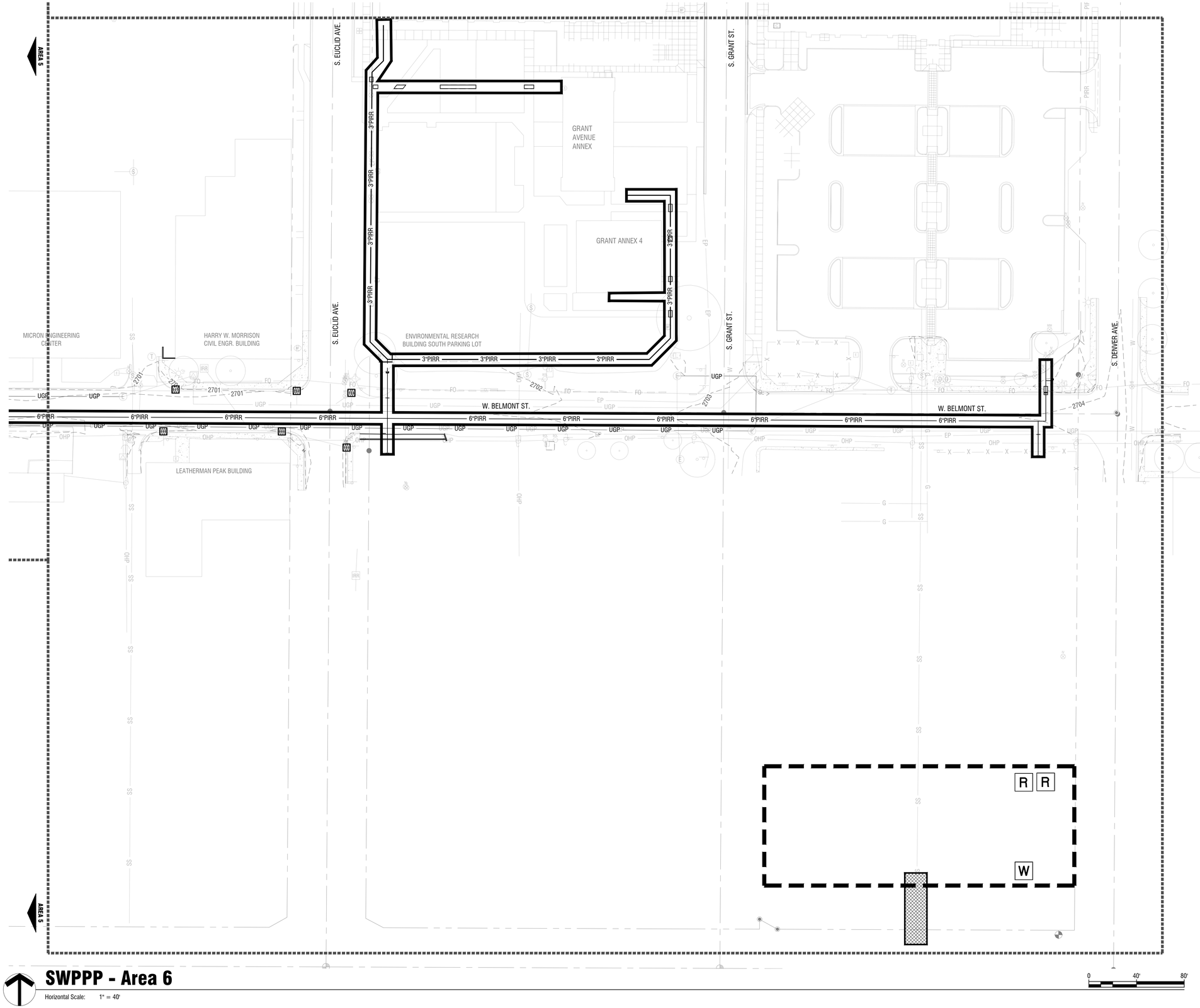
SWPPP
Area 5

C0.55



SWPPP - Area 6

Horizontal Scale: 1" = 40'

0 40' 80'

ESC/SWPPP Legend

- APPROXIMATE LIMIT OF DISTURBANCE
- 2698 — PROPOSED GROUND CONTOUR (ONE-FOOT INTERVAL)
- 2698 — EXISTING GROUND CONTOUR (ONE-FOOT INTERVAL)
- FW — FIBER ROLL PER STATE OF IDAHO CATALOG OF STORM WATER BEST MANAGEMENT PRACTICES BMP #64. SEE DETAILS ON SHEET C0.60.
- W — CONCRETE WASHOUT PER THE STATE OF IDAHO CATALOG OF STORM WATER BEST MANAGEMENT PRACTICES BMP #49 AND DETAIL ON SHEET C0.60.
- R — PORTABLE RESTROOM PER THE STATE OF IDAHO CATALOG OF STORM WATER BEST MANAGEMENT PRACTICES BMP #50.
- RECTANGULAR DROP INLET PROTECTION TYPE I PER BMP #13, SEE SHEET C0.60 FOR DETAILS.
- CIRCULAR DROP INLET PROTECTION TYPE III PER BMP #13, SEE SHEET C0.60 FOR DETAILS.
- MATERIALS STORAGE AND PARKING AREAS PER THE STATE OF IDAHO CATALOG OF STORM WATER BEST MANAGEMENT PRACTICES BMP #37.
- PROVIDE STABILIZED ENTRANCE PER THE STATE OF IDAHO CATALOG OF STORM WATER BEST MANAGEMENT PRACTICES BMP #40. THIS SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION UNTIL ASPHALT BASE MATERIAL IS INSTALLED. PROVIDE SWEEPING DAILY OR AS NEEDED TO REMOVE ANY TRACKING OF MUD AND/OR DIRT ONTO EXISTING ASPHALT. SEE SHEET C0.60 FOR DETAILS.

REFER TO MATERIALS SHEETS C2.01 - C2.08 FOR FINAL STABILIZATION MATERIALS.

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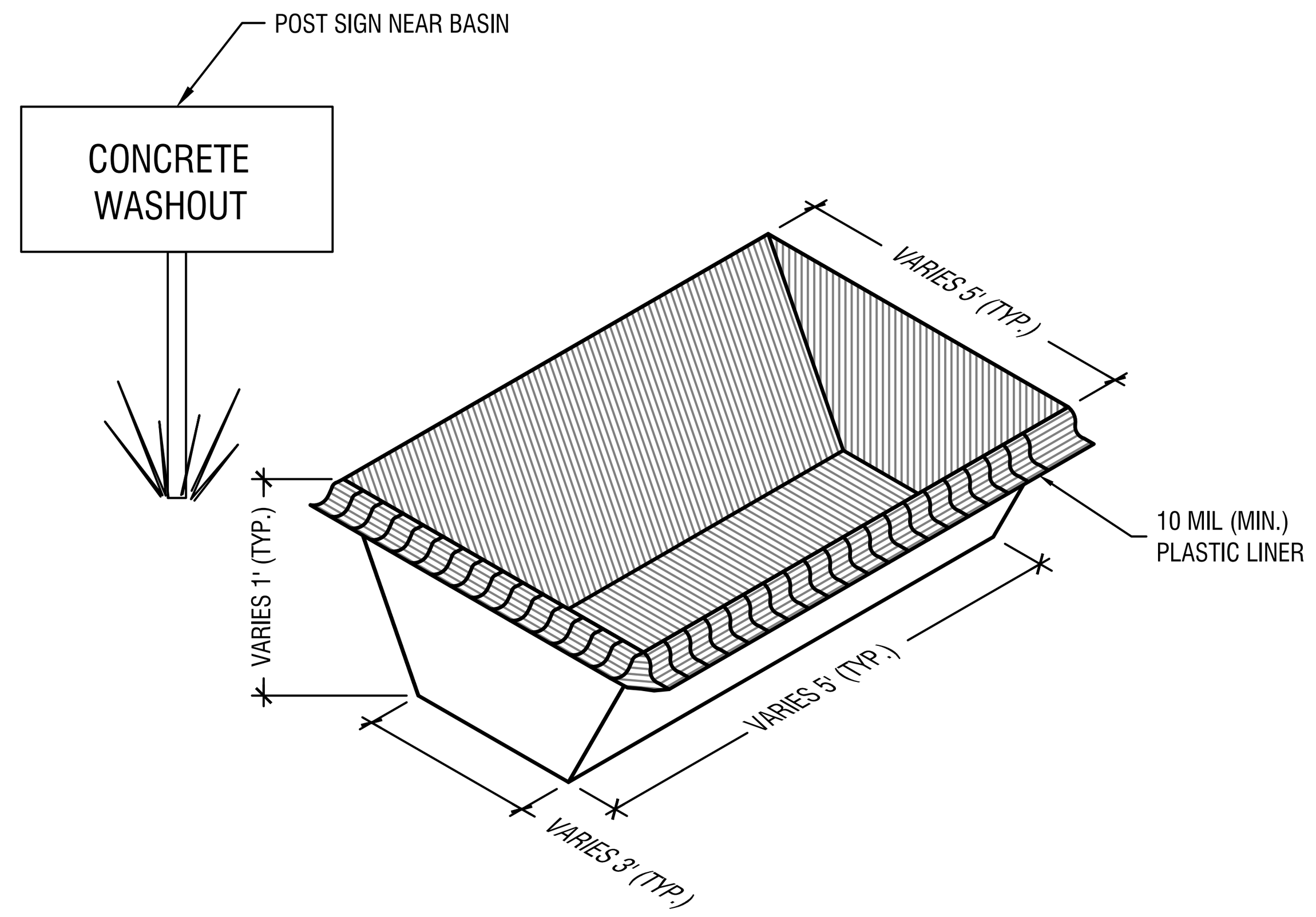
07/30/2024

Project No.: 118145
Date of Issuance: 04/3/2024
Project Milestone: Bid Set Documents

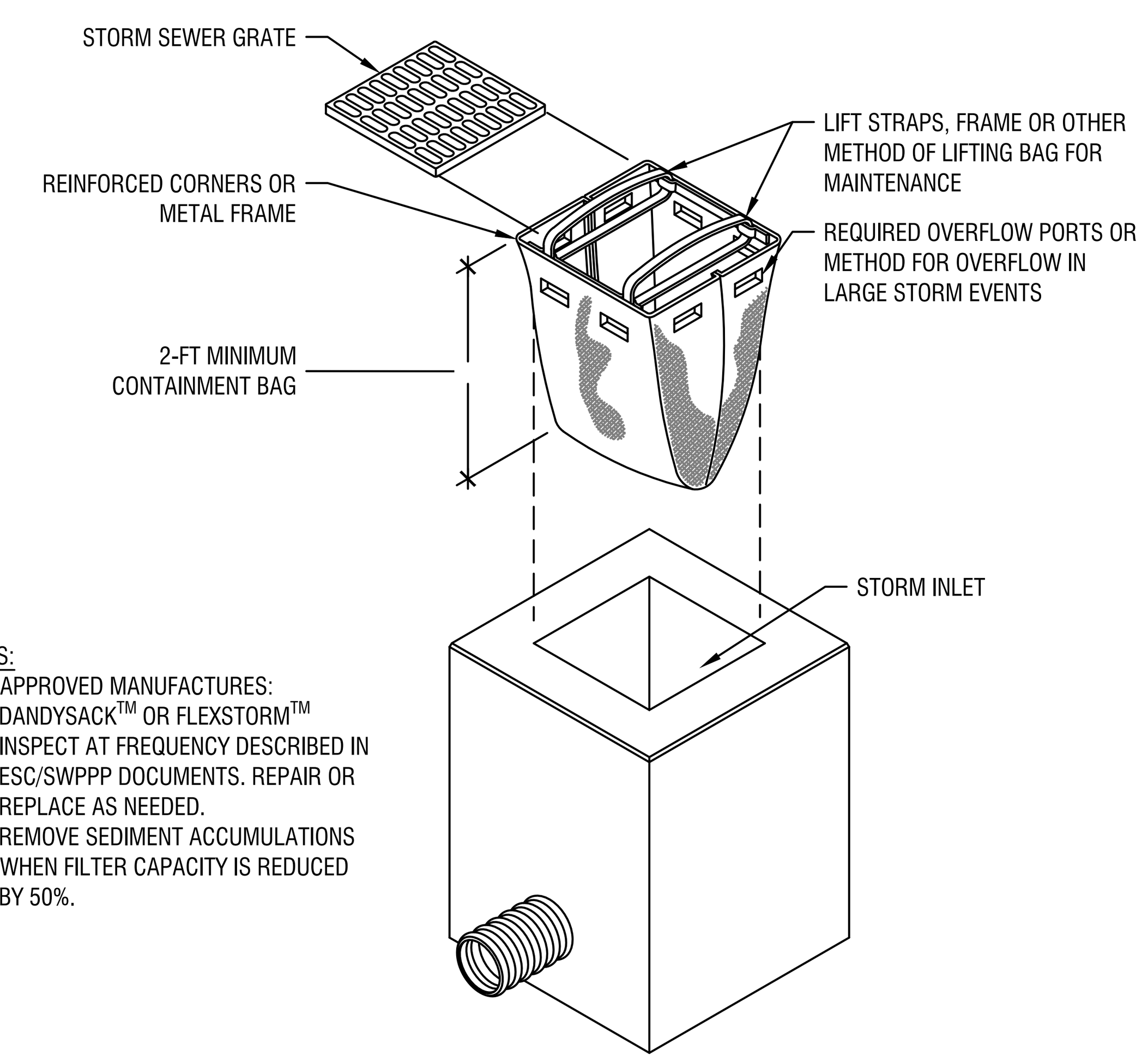
SWPPP
Area 6

C0.56



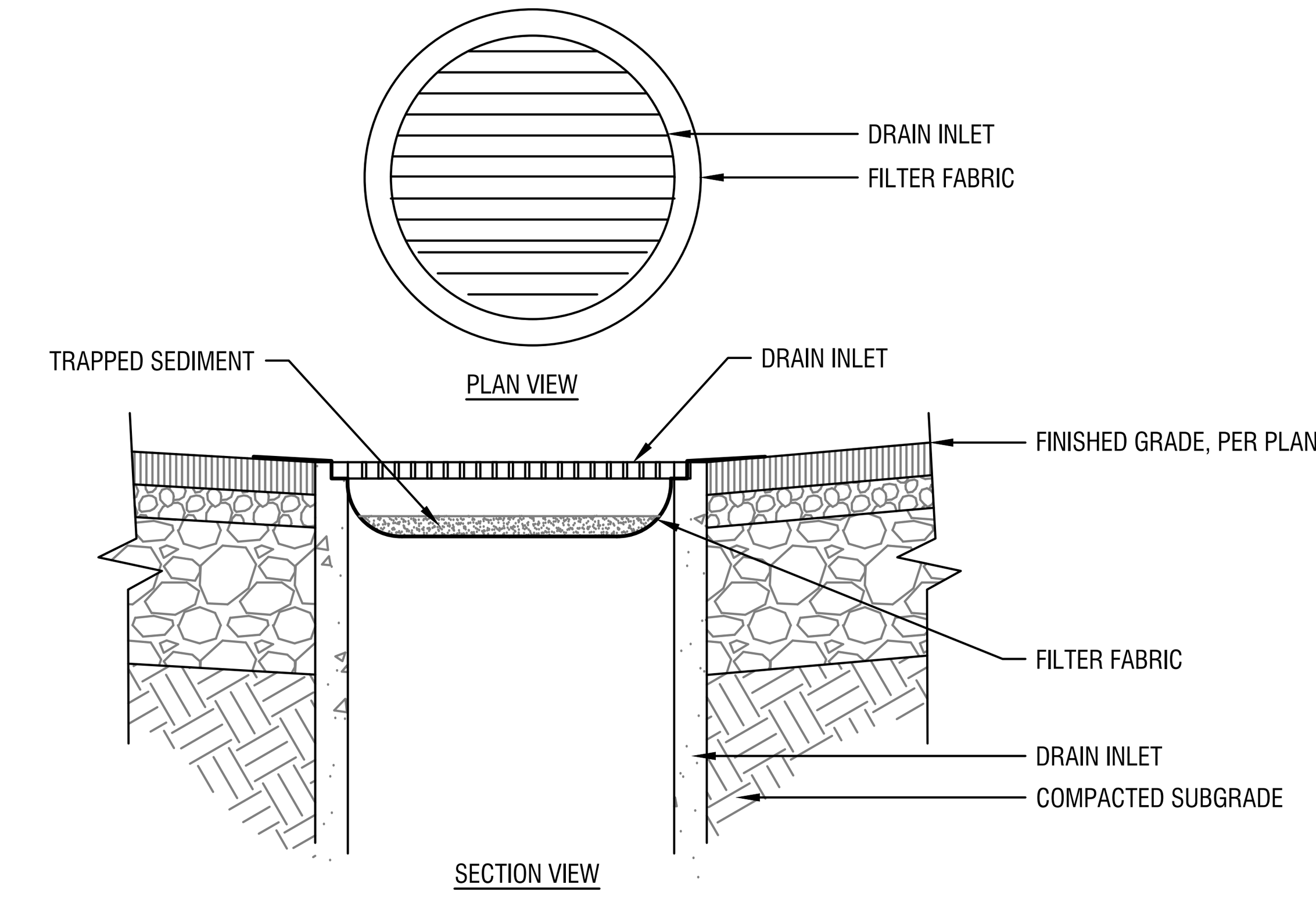
NOTES
1. DIMENSIONS VARY. RESPONSIBLE PERSON SHALL SIZE BASIN APPROPRIATELY.

1 Concrete Washout (BMP 49)
Scale: NTS



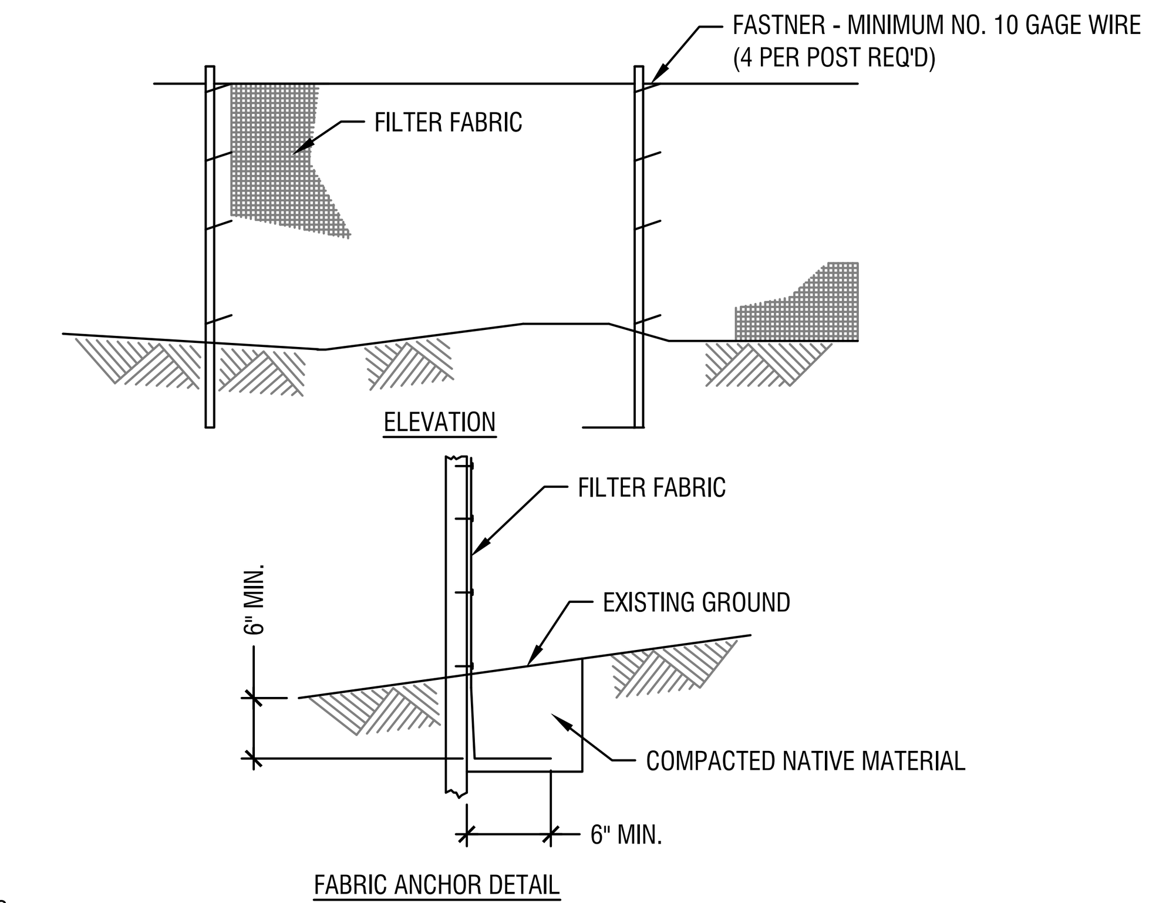
NOTES:
1. APPROVED MANUFACTURES: DANDYSACK™ OR FLEXSTORM™
2. INSPECT AT FREQUENCY DESCRIBED IN ESC/SWPPP DOCUMENTS. REPAIR OR REPLACE AS NEEDED.
3. REMOVE SEDIMENT ACCUMULATIONS WHEN FILTER CAPACITY IS REDUCED BY 50%.

2 Drop Inlet Protection Type I (BMP 13)
Scale: NTS



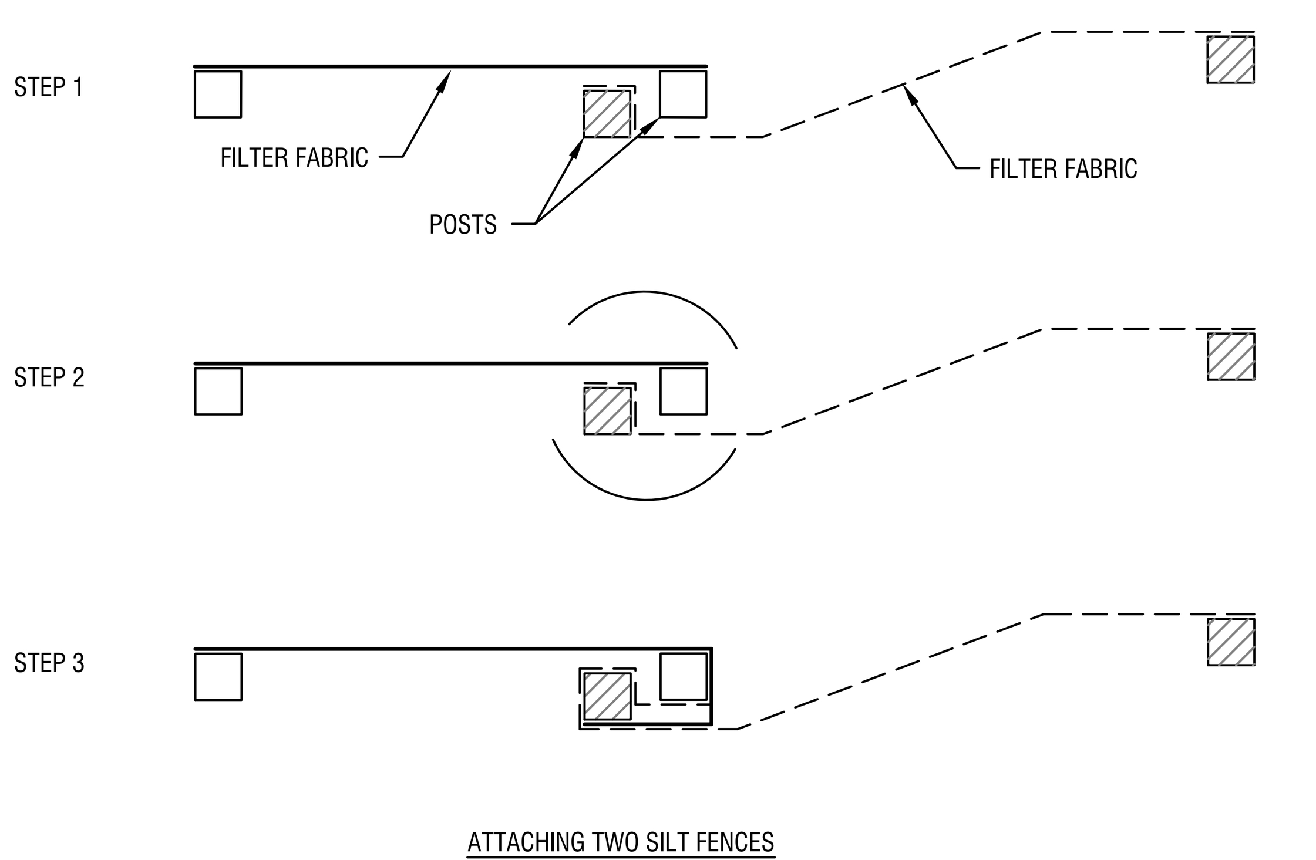
NOTES:
1. INSPECT PERIODICALLY AND REPAIR/REPLACE AS REQUIRED.
2. REMOVE SEDIMENT ACCUMULATIONS WHEN FILTER CAPACITY IS IMPAIRED BY 50%.
3. OTHER METHODS OF INLET PROTECTION MAY BE APPROVED UPON REVIEW BY THE PLAN PREPARER.
4. SEE STATE OF IDAHO CATALOG OF STORM WATER BEST MANAGEMENT PRACTICES BMP #31 FOR ADDITIONAL INFORMATION.

3 Drop Inlet Protection Type III (BMP 13)
Scale: NTS



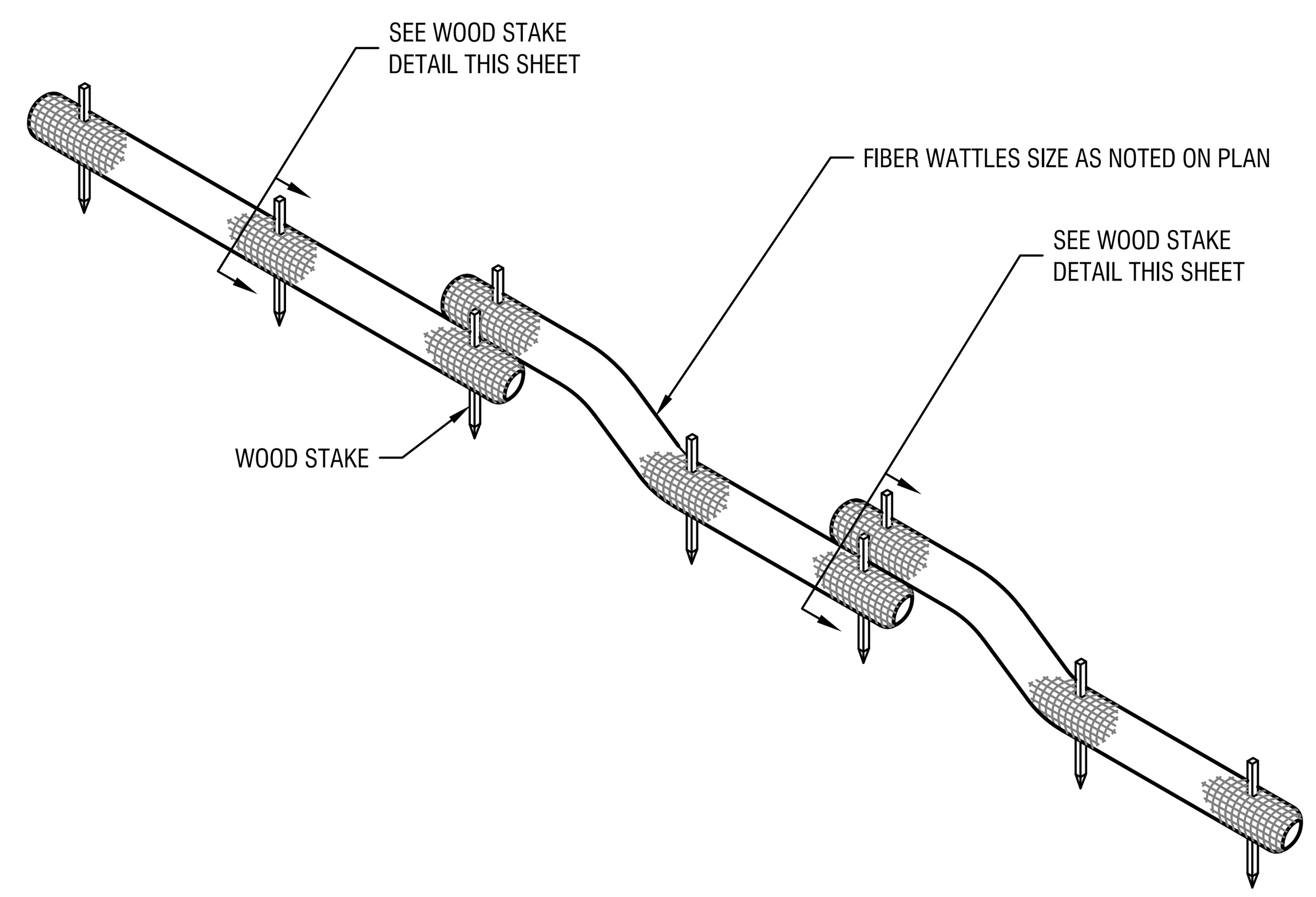
NOTES:
1. TEMPORARY SEDIMENT FENCE SHALL BE INSTALLED PRIOR TO ANY GRADING WORK IN THE AREA TO BE PROTECTED. THEY SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD AND REMOVED IN CONJUNCTION WITH THE FINAL GRADING AND SITE STABILIZATION.
2. FILTER FABRIC SHALL BE CLASS 1 WITH EQUIVALENT OPENING SIZE OF AT LEAST 30 FOR NONWOVEN AND 50 FOR WOVEN.
3. FENCE POSTS SHALL BE EITHER STANDARD STEEL POST OR WOOD POST WITH A MINIMUM CROSS-SECTIONAL AREA OF 3.0 SQ. IN.

4 Silt Fence Install 1 (BMP 65)
Scale: NTS

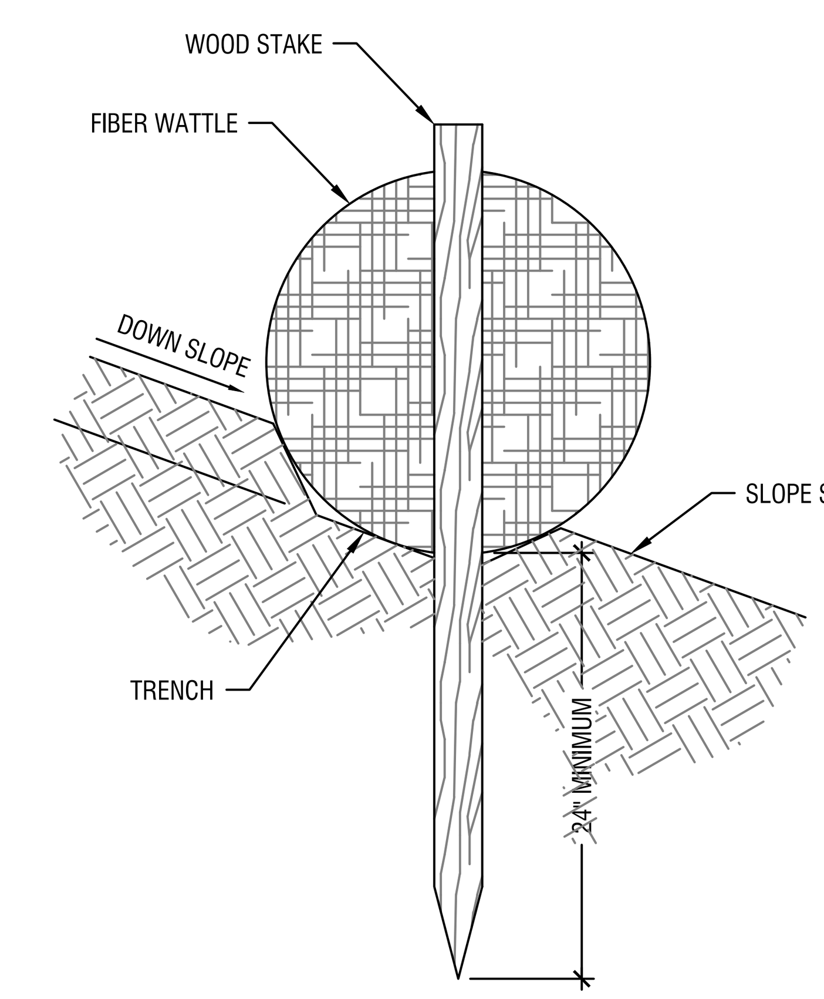


NOTES:
1. PLACE THE END POST OF THE SECOND FENCE INSIDE THE END POST OF THE FIRST FENCE.
2. ROTATE BOTH POSTS AT LEAST 180 DEGREES IN A CLOCKWISE DIRECTION TO CREATE A TIGHT SEAL WITH THE FABRIC MATERIAL.
3. DRIVE BOTH POSTS A MINIMUM OF 18 INCHES INTO THE GROUND AND BURY THE FLAP.

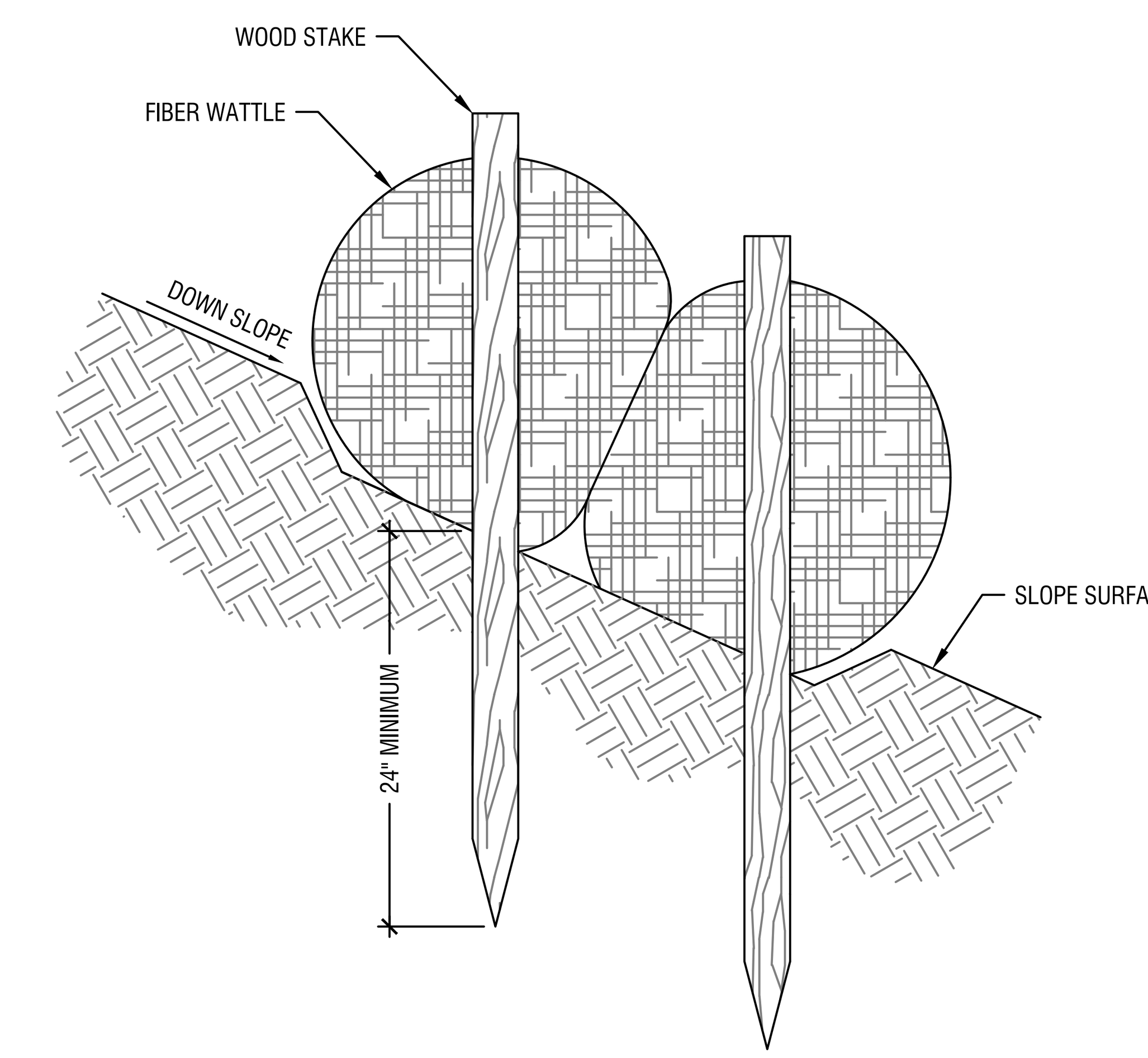
5 Silt Fence Overlap Install (BMP 65)
Scale: NTS



6 Fiber Roll (BMP 64)
Scale: NTS



7 Fiber Roll Stake Section (BMP 64)
Scale: NTS



8 Fiber Roll Stake Section 2 (BMP 64)
Scale: NTS

THE LAND GROUP

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SWPPP Details

C0.60

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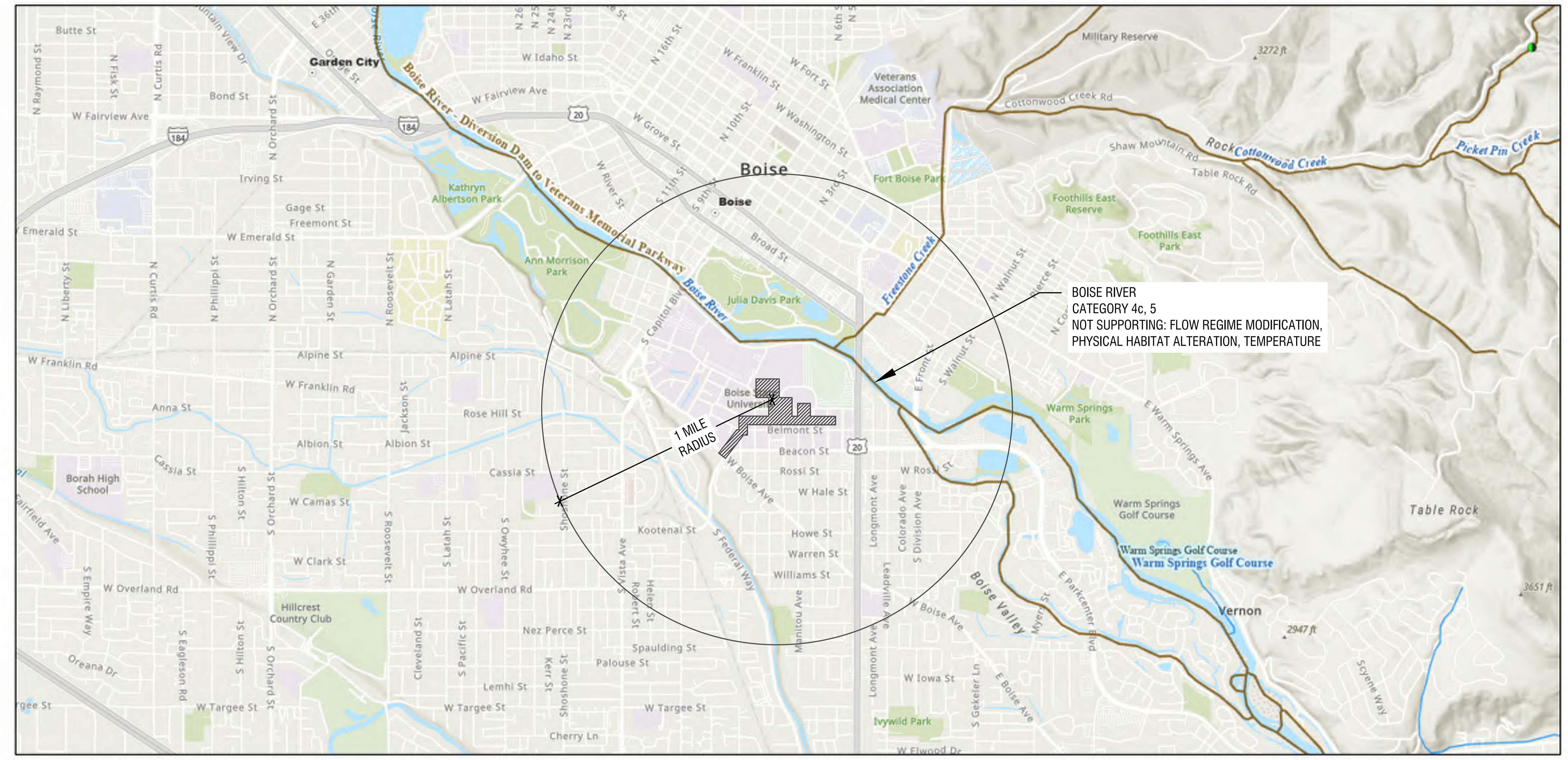
Date Plotted: Tuesday, July 30 2024 at 01:11 PM

THE LAND GROUP

Idaho DEQ Final 2022 305B Integrated Report



January 19, 2024

2022 305(b) Streams
- Not Assessed(Cat 3)
- Not Supporting(Cat 4a,4b,4c,5)
- Not Supporting (Cat5)

2022 305(b) Lakes
- Not Assessed(Cat 3)

2022 305(b) Lakes
- Not Assessed(Cat3)
- 4th Field HUCS (Idaho)

IDEQ Strm Monitoring (BURP)
- Stream

1:36,112

0 0.3 0.6 1.2 mi

0 0.5 1 2 km

Esri, NASA, NGA, USGS, FEMA, County of Ada, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, Bureau of Land Management, EPA, NPS, US Census Bureau, USDA, USFWS, © IDEQ-GIS 2023

Map Courtesy of IDEQ's 305B Integrated Report
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Waters of the US Map

THE WATERS OF THE US MAP IDENTIFIES IMPAIRED WATERWAYS WHICH COULD BE REACHED EITHER DIRECTLY OR INDIRECTLY (E.G. VIA MUNICIPAL STORM DRAIN SYSTEM). ENSURE THAT PROJECT STORMWATER CONTROLS WILL PREVENT FURTHER IMPAIRMENT OF NEARBY WATERS.

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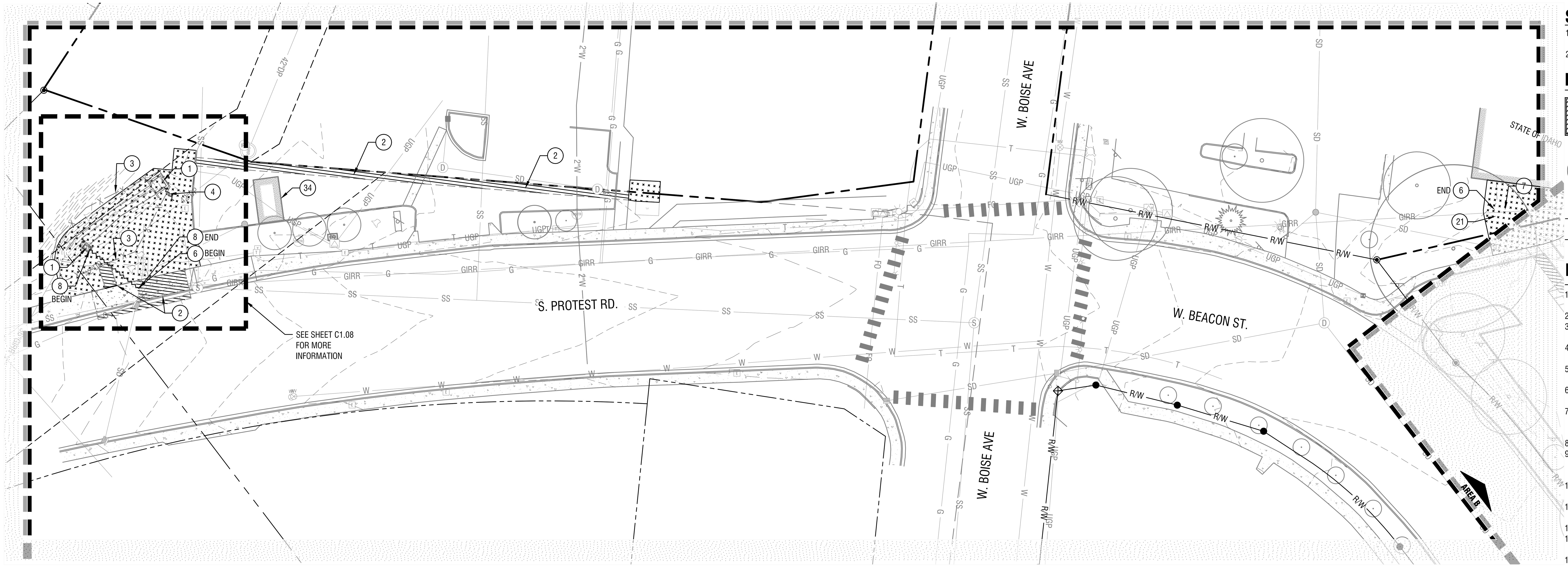
SWPPP
Waters of the US

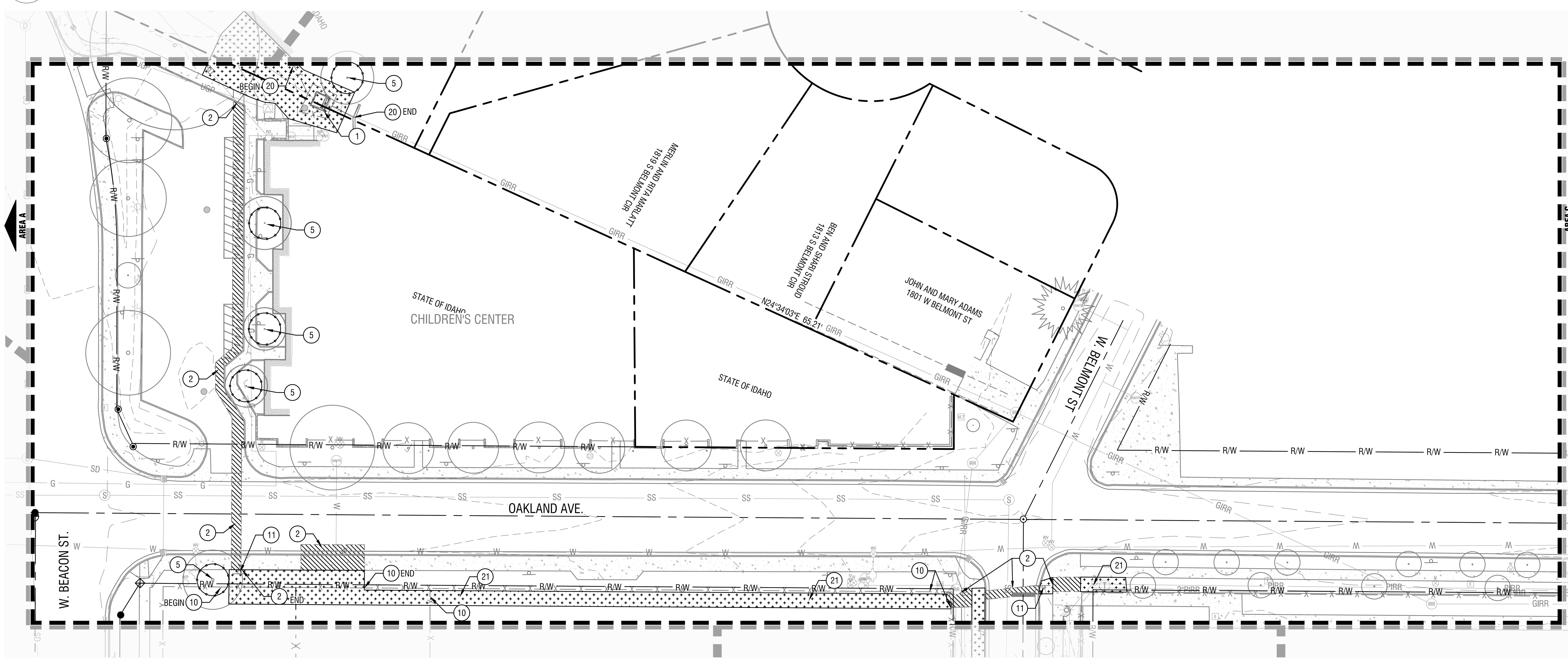
C0.61



Demolition Plan - Area A

Horizontal Scale: 1" = 30'

0 30' 60'



Demolition Plan - Area B

Horizontal Scale: 1" = 30'

0 30' 60'

Sheet Notes:

1. ALL WORK SHALL BE COORDINATED WITH BSU PERSONNEL PRIOR TO CONSTRUCTION.
2. KEYNOTES MAY NOT BE SHOWN ON EACH SHEET.

Demolition Legend:

- REMOVE AND DISPOSE OF HARDSCAPE OFF-SITE.
- REMOVE AND DISPOSE OF LANDSCAPE. FIELD LOCATE IRRIGATION EQUIPMENT AND RETURN TO EXISTING CONDITIONS.
- RETAIN AND PROTECT EXISTING TREE, INSTALL PROTECTIVE FENCE AROUND TREE.
- REMOVE AND DISPOSE OF EXISTING TREE, GRIND STUMP 18" BELOW EXISTING GRADE MIN.
- SAW CUT - PROVIDE NEAT SAW CUT LINE OF ASPHALT AND CONCRETE
- TEMPORARY CONSTRUCTION FENCE

Keynotes:

(#) CALLOUT NUMBERS COORDINATED TO NUMBERED NOTES BELOW.

1. REMOVE AND DISPOSE OF GRAVITY IRRIGATION STRUCTURE AND RELATED COMPONENTS. CAP EXISTING GRAVITY PIPE TO THE NORTHWEST.
2. REMOVE AND DISPOSE OF ASPHALT OR CONCRETE PAVEMENT.
3. REMOVE AND DISPOSE OF FENCE. DISPOSE OF FABRIC, POSTS, FOOTINGS, AND MISC. ASSOCIATED MATERIAL.
4. REMOVE EXISTING GRAVITY IRRIGATION PIPE AS REQUIRED FOR WET WELL INSTALLATION. PLUG AND SEAL END OF PIPE TO PROVIDE WATER TIGHT SEAL.
5. RETAIN AND PROTECT EXISTING TREES. INSTALL PROTECTIVE FENCE AROUND TREE.
6. RETAIN AND PROTECT EXISTING GRAVITY IRRIGATION PIPE. PIPE WILL BE USED TO SLEEVE NEW PRESSURE IRRIGATION MAINLINE.
7. REMOVE AND DISPOSE OF IRRIGATION PIPE TO ACCOMMODATE NEW PRESSURIZED IRRIGATION MAINLINE ALIGNMENT. ABANDON IN PLACE ANY UNUSED PORTION OF GRAVITY IRRIGATION PIPE.
8. REMOVE AND DISPOSE OF GRAVITY IRRIGATION PIPE.
9. REMOVE EXISTING PUMP STATION AND RETURN TO BSU (±1 MILE FROM SITE). CONTRACTOR TO BUST OUT BOTTOM OF WET WELL, KNOCK 18" OFF TOP OF WET WELL. COORDINATE WITH KEYNOTE 14/C2.04.
10. REMOVE AND REPLACE FENCE AS NEEDED. ENSURE FENCE IS RETURNED TO A STATE THAT MATCHES EXISTING CONDITIONS.
11. REMOVE AND PRESERVE SIGN. RETURN SIGN TO A STATE THAT MATCHES EXISTING CONDITIONS.
12. RETAIN AND PROTECT ELECTRICAL EQUIPMENT.
13. REMOVE AND DISPOSE OF PRESSURE IRRIGATION PIPE. COORDINATE WITH KEYNOTE 9 SHEET C2.02.
14. REMOVE AND SAVE EXISTING SIGN AND POST FOR RE-INSTALLING SEE C2.00 SERIES SHEETS.
15. REMOVE SECTION OF FENCING FOR INSTALLATION OF IRRIGATION MAINLINE.
16. RETAIN AND PROTECT EXISTING WATER METER.
17. RETAIN AND PROTECT EXISTING LIGHT POLE.
18. RETAIN AND PROTECT EXISTING FIRE HYDRANT.
19. RETAIN AND PROTECT EXISTING STORM DRAIN PIPING AND STRUCTURES.
20. REMOVE CHAINLINK FENCE AROUND EXISTING BUBBLER STRUCTURE.
21. RETAIN AND PROTECT EXISTING PI SYSTEM IN THIS GENERAL LOCATION.
22. REMOVE AND REINSTALL LANDSCAPE BOULDER COORDINATE WITH SHEET C2.02.
23. PRESERVE AND PROTECT PAVERS.
24. RETAIN AND PROTECT EXISTING BACKFLOW DEVICE.
25. RETAIN AND PROTECT BENCH OR TRASH RECEPTACLE AND PADS. COORDINATE WITH SHEET C2.03.
26. REMOVE AND DISPOSE OF EXISTING STUMP.
27. RETAIN AND PROTECT EXISTING FENCE.
28. RETAIN AND PROTECT EXISTING RAILROAD TIE. COORDINATE WITH C2.05.
29. RETAIN AND PROTECT EXISTING CONCRETE PARKING BUMPER. COORDINATE WITH C2.05.
30. REMOVE GRAVITY IRRIGATION PUMPSTATION AND RETURN TO OWNER. COORDINATE WITH ELECTRICAL PLANS FOR ELECTRICAL REMOVAL.
31. REMOVE SOLAR PANELS, POSTS, AND FOOTINGS. RETURN TO OWNER.
32. EXISTING WET WELL: BUST OUT BOTTOM OF MANHOLE, MAINTAIN EXISTING LID. PRESERVE AND PROTECT EXISTING CONCRETE FLAT WORK. COORDINATE WITH KEYNOTE 15/C2.02.
33. UNDERGROUND POWER VAULT, RETAIN AND PROTECT.
34. RETAIN AND PROTECT EXISTING CAR PORT. CONTRACTOR TO TEMPORARY RELOCATE AS NECESSARY FOR CONSTRUCTION ACCESS.
35. PROVIDE SPECIAL PROTECTION TO EXISTING IRRIGATION DURING STAGING IN THIS AREA.
36. RETAIN AND PROTECT SECTION OF 6-INCH MAINLINE.

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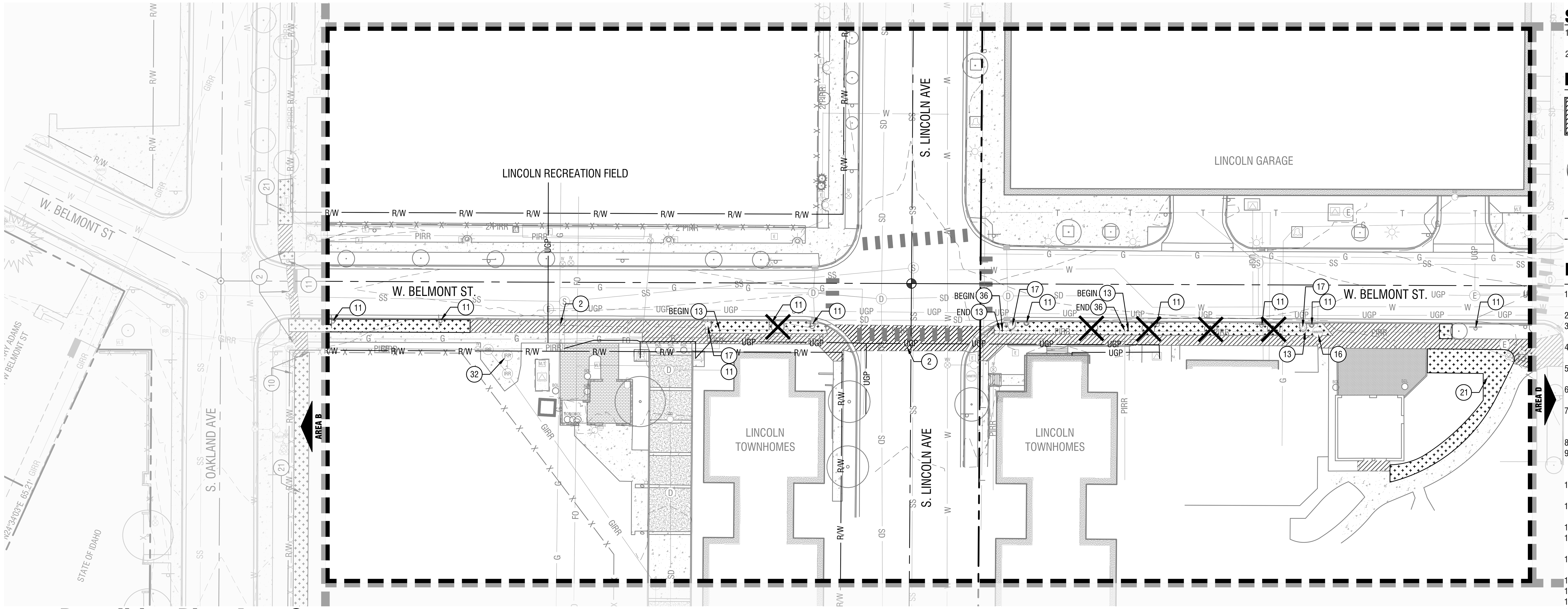
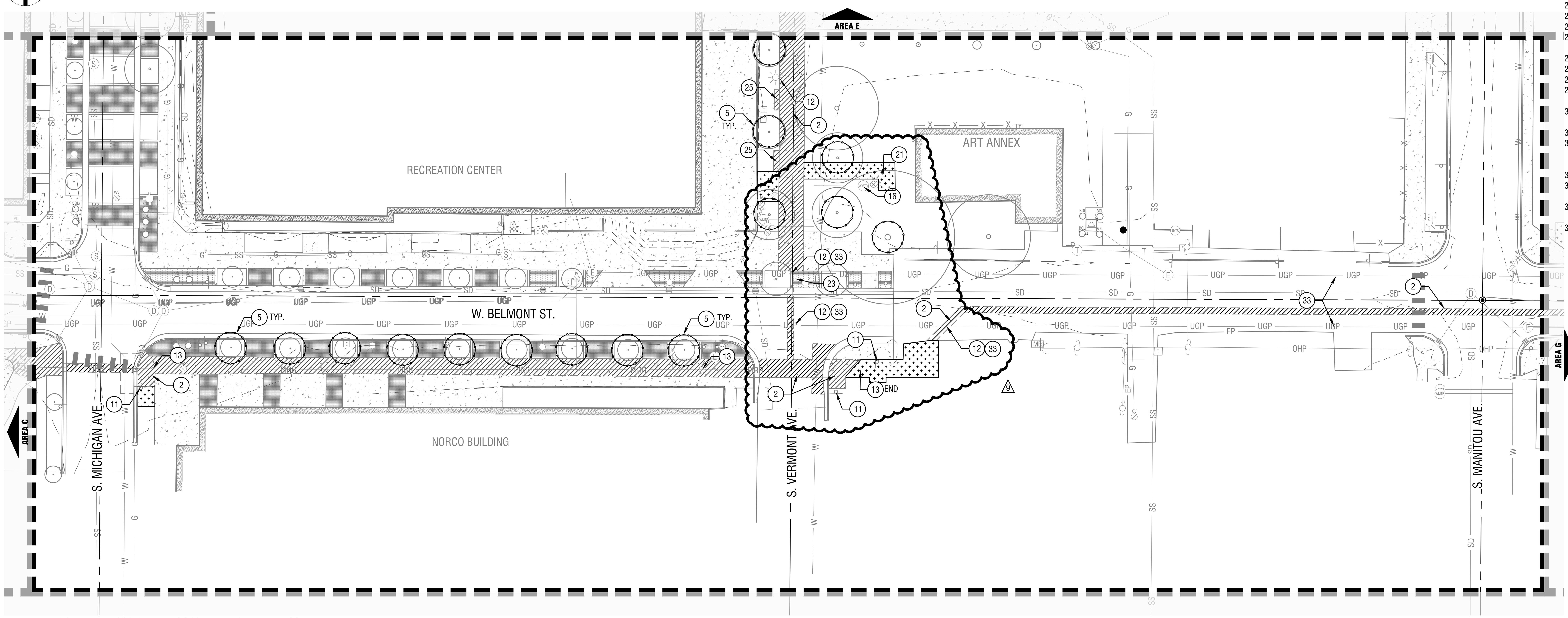
Demolition Plan
Area A & B

C1.01



Demolition Plan-Area C

Horizontal Scale: 1" = 30'



Demolition Plan-Area D

Horizontal Scale: 1" = 30'

Sheet Notes:

1. ALL WORK SHALL BE COORDINATED WITH BSU PERSONNEL PRIOR TO CONSTRUCTION.
2. KEYNOTES MAY NOT BE SHOWN ON EACH SHEET.

Demolition Legend:

- REMOVE AND DISPOSE OF HARDSCAPE OFF-SITE.
- REMOVE AND DISPOSE OF LANDSCAPE. FIELD LOCATE IRRIGATION EQUIPMENT AND RETURN TO EXISTING CONDITIONS.
- RETAIN AND PROTECT EXISTING TREE, INSTALL PROTECTIVE FENCE AROUND TREE.
- REMOVE AND DISPOSE OF EXISTING TREE, GRIND STUMP 18" BELOW EXISTING GRADE MIN.
- SAW CUT - PROVIDE NEAT SAW CUT LINE OF ASPHALT AND CONCRETE
- TEMPORARY CONSTRUCTION FENCE

Keynotes:

(#) CALLOUT NUMBERS COORDINATED TO NUMBERED NOTES BELOW.

1. REMOVE AND DISPOSE OF GRAVITY IRRIGATION STRUCTURE AND RELATED COMPONENTS. CAP EXISTING GRAVITY PIPE TO THE NORTHWEST.
2. REMOVE AND DISPOSE OF ASPHALT OR CONCRETE PAVEMENT.
3. REMOVE AND DISPOSE OF FENCE. DISPOSE OF FABRIC, POSTS, FOOTINGS, AND MISC. ASSOCIATED MATERIAL.
4. REMOVE EXISTING GRAVITY IRRIGATION PIPE AS REQUIRED FOR WET WELL INSTALLATION. PLUG AND SEAL END OF PIPE TO PROVIDE WATER TIGHT SEAL.
5. RETAIN AND PROTECT EXISTING TREES. INSTALL PROTECTIVE FENCE AROUND TREE.
6. RETAIN AND PROTECT EXISTING GRAVITY IRRIGATION PIPE. PIPE WILL BE USED TO SLEEVE NEW PRESSURE IRRIGATION MAINLINE.
7. REMOVE AND DISPOSE OF IRRIGATION PIPE TO ACCOMMODATE NEW PRESSURIZED IRRIGATION MAINLINE ALIGNMENT. ABANDON IN PLACE ANY UNUSED PORTION OF GRAVITY IRRIGATION PIPE.
8. REMOVE AND DISPOSE OF GRAVITY IRRIGATION PIPE.
9. REMOVE EXISTING PUMP STATION AND RETURN TO BSU (±1 MILE FROM SITE). CONTRACTOR TO BUST OUT BOTTOM OF WET WELL, KNOCK 18" OFF TOP OF WET WELL. COORDINATE WITH KEYNOTE 14/C2.04.
10. REMOVE AND REPLACE FENCE AS NEEDED. ENSURE FENCE IS RETURNED TO A STATE THAT MATCHES EXISTING CONDITIONS.
11. REMOVE AND PRESERVE SIGN. RETURN SIGN TO A STATE THAT MATCHES EXISTING CONDITIONS.
12. RETAIN AND PROTECT ELECTRICAL EQUIPMENT.
13. REMOVE AND DISPOSE OF PRESSURE IRRIGATION PIPE. COORDINATE WITH KEYNOTE 9 SHEET C2.02.
14. REMOVE AND SAVE EXISTING SIGN AND POST FOR RE-INSTALLING SEE C2.00 SERIES SHEETS.
15. REMOVE SECTION OF FENCING FOR INSTALLATION OF IRRIGATION MAINLINE.
16. RETAIN AND PROTECT EXISTING WATER METER.
17. RETAIN AND PROTECT EXISTING LIGHT POLE.
18. RETAIN AND PROTECT EXISTING FIRE HYDRANT.
19. RETAIN AND PROTECT EXISTING STORM DRAIN PIPING AND STRUCTURES.
20. REMOVE CHAINLINK FENCE AROUND EXISTING BUBBLER STRUCTURE.
21. RETAIN AND PROTECT EXISTING PI SYSTEM IN THIS GENERAL LOCATION.
22. REMOVE AND REINSTALL LANDSCAPE BOULDER COORDINATE WITH SHEET C2.02.
23. PRESERVE AND PROTECT PAVERS.
24. RETAIN AND PROTECT EXISTING BACKFLOW DEVICE.
25. RETAIN AND PROTECT BENCH OR TRASH RECEPTACLE AND PADS. COORDINATE WITH SHEET C2.03.
26. REMOVE AND DISPOSE OF EXISTING STUMP.
27. RETAIN AND PROTECT EXISTING FENCE.
28. RETAIN AND PROTECT EXISTING RAILROAD TIE. COORDINATE WITH C2.05.
29. RETAIN AND PROTECT EXISTING CONCRETE PARKING BUMPER. COORDINATE WITH C2.05.
30. REMOVE GRAVITY IRRIGATION PUMPSTATION AND RETURN TO OWNER. COORDINATE WITH ELECTRICAL PLANS FOR ELECTRICAL REMOVAL.
31. REMOVE SOLAR PANELS, POSTS, AND FOOTINGS. RETURN TO OWNER.
32. EXISTING WET WELL: BUST OUT BOTTOM OF MANHOLE, MAINTAIN EXISTING LID. PRESERVE AND PROTECT EXISTING CONCRETE FLAT WORK. COORDINATE WITH KEYNOTE 15/C2.02.
33. UNDERGROUND POWER VAULT, RETAIN AND PROTECT.
34. RETAIN AND PROTECT EXISTING CAR PORT. CONTRACTOR TO TEMPORARY RELOCATE AS NECESSARY FOR CONSTRUCTION ACCESS.
35. PROVIDE SPECIAL PROTECTION TO EXISTING IRRIGATION DURING STAGING IN THIS AREA.
36. RETAIN AND PROTECT SECTION OF 6-INCH MAINLINE.

THE LAND GROUP

SOUTH CAMPUS PRESSURIZED IRRIGATION
BOISE STATE UNIVERSITY

1910 UNIVERSITY DRIVE
BOISE, IDAHO 83725

Revisions

1.	Addendum 2	04/23/2024
2.	Addendum 3	05/16/2024
3.	Addendum 4	05/20/2024
4.	Addendum 5	05/21/2024
5.	Addendum 6	05/29/2024
6.	ACHD Comments	06/20/2024
7.	Conformance Set	07/22/2024
8.	DD3 Comments	07/30/2024
9.	Veolia comments	08/29/2024

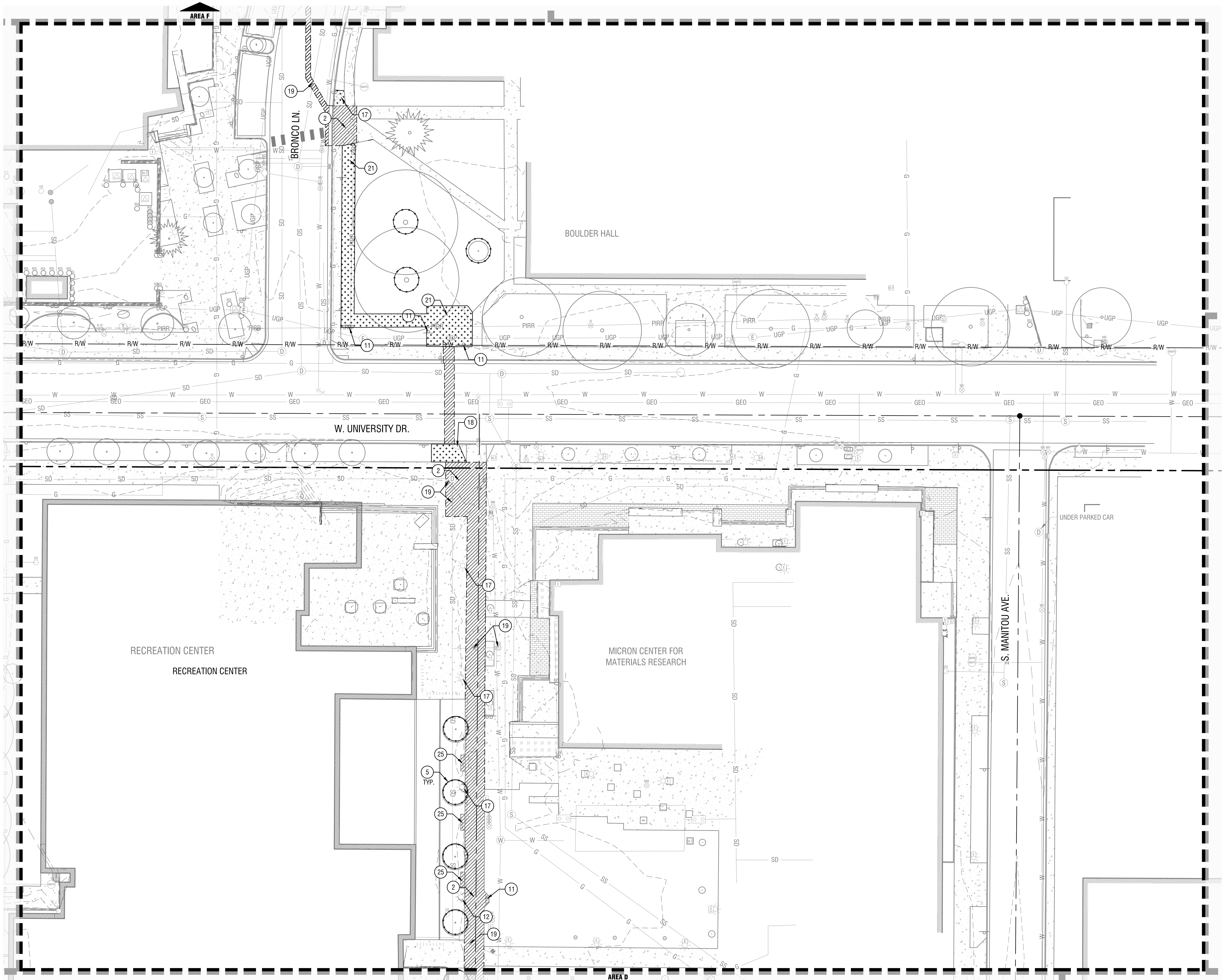
PROFESSIONAL ENGINEER REGISTERED 10961 STATE OF IDAHO JASON DENSMER

08/29/2024

Project No.:	118145
Date of Issuance:	04/3/2024
Project Milestone:	Bid Set Documents

Demolition Plan
Area C & D

C1.02



Demolition Plan - Area E

Horizontal Scale: 1" = 30'

0 30' 60'

Sheet Notes:

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THE LAND GROUP

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BOISE, IDAHO 83725

Revisions

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8.	DD3 Comments	07/30/2024

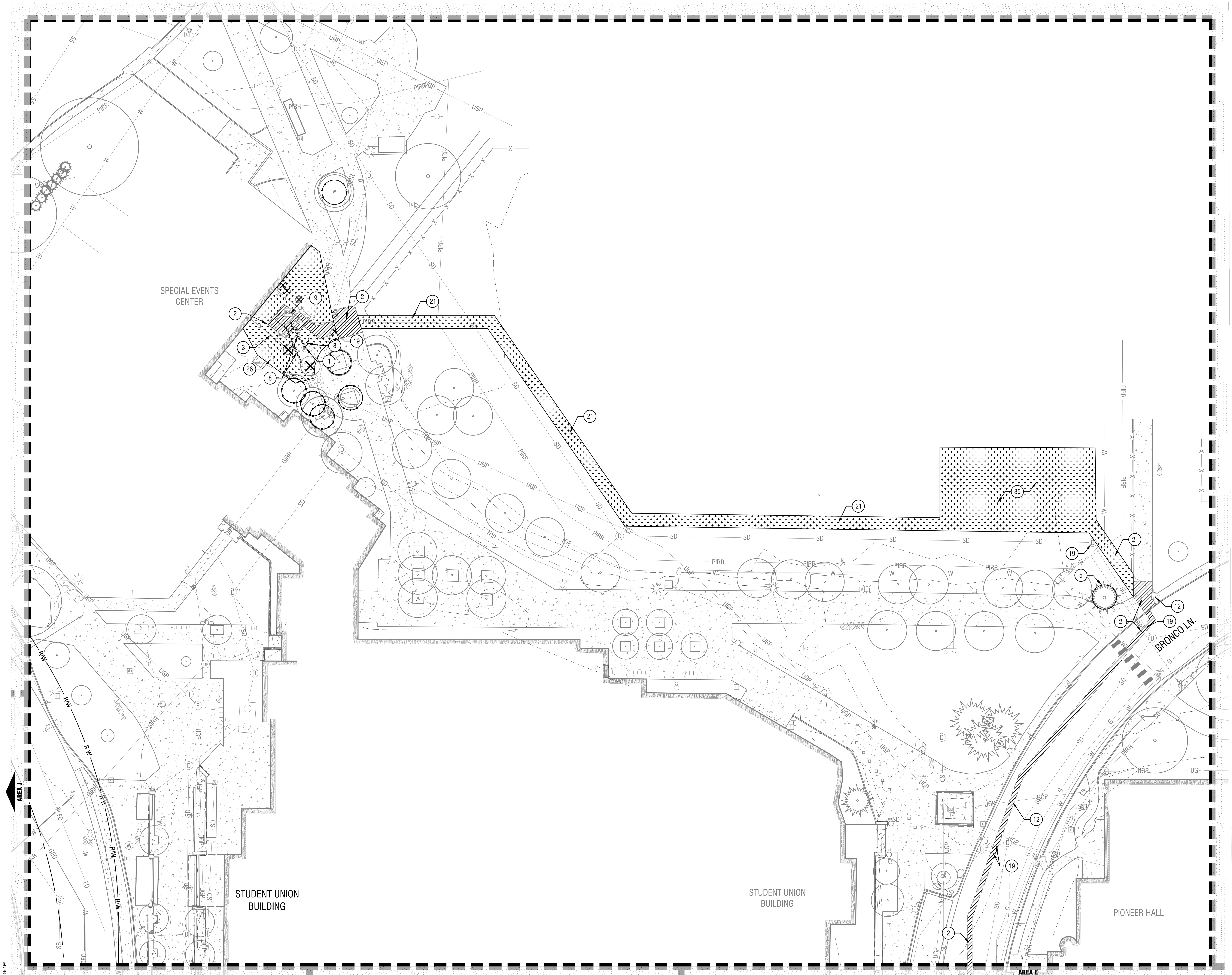
PROFESSIONAL ENGINEER REGISTERED 10961 STATE OF IDAHO JASON DENSMER

07/30/2024

Project No.:	118145
Date of Issuance:	04/3/2024
Project Milestone:	Bid Set Documents

Demolition Plan
Area E

C1.03



Demolition Plan-Area F

Horizontal Scale: 1" = 30'

0 30' 60'

Sheet Notes:

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THE LAND GROUP

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BOISE, IDAHO 83725

Revisions

1.	Addendum 2	04/23/2024
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3.	Addendum 4	05/20/2024
4.	Addendum 5	05/21/2024
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6.	ACHD Comments	06/20/2024
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8.	DD3 Comments	07/30/2024

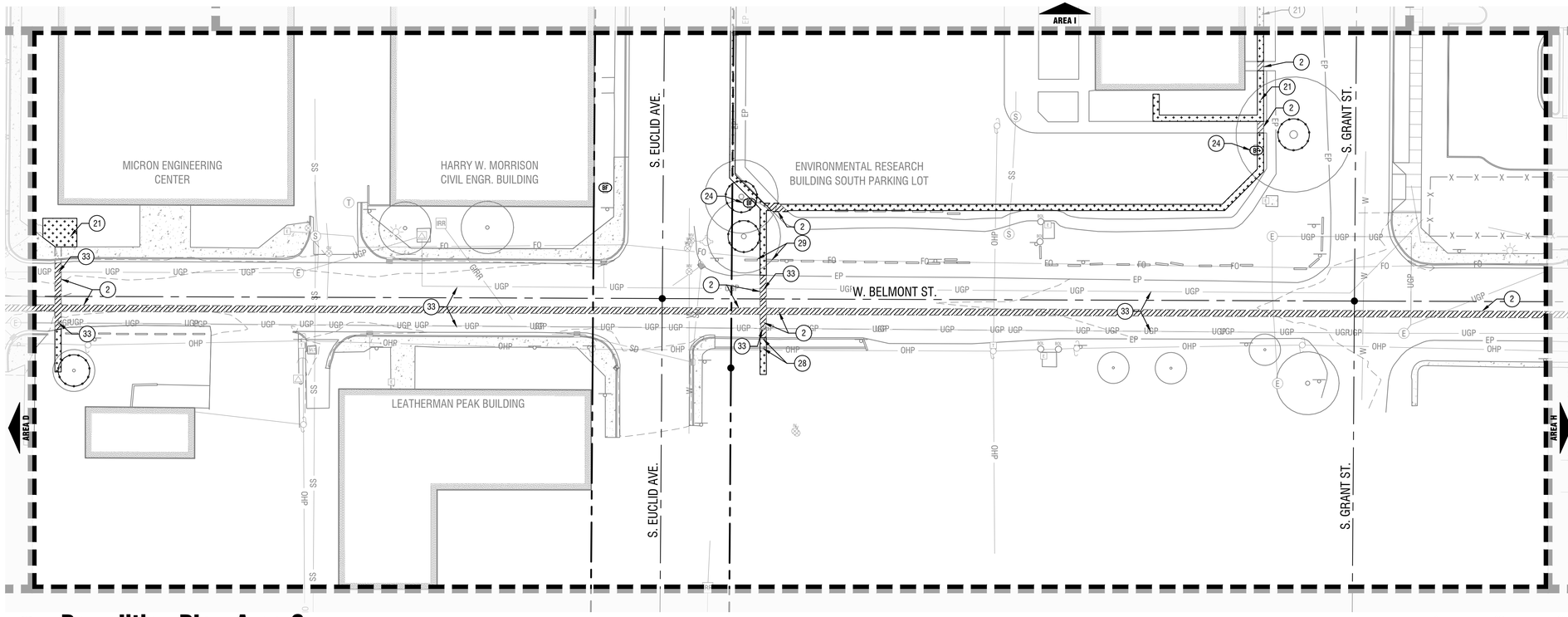
PROFESSIONAL ENGINEER REGISTERED 10961 STATE OF IDAHO JASON DENSMER

07/30/2024

Project No.: 118145
Date of Issuance: 04/3/2024
Project Milestone: Bid Set Documents

Demolition Plan
Area F

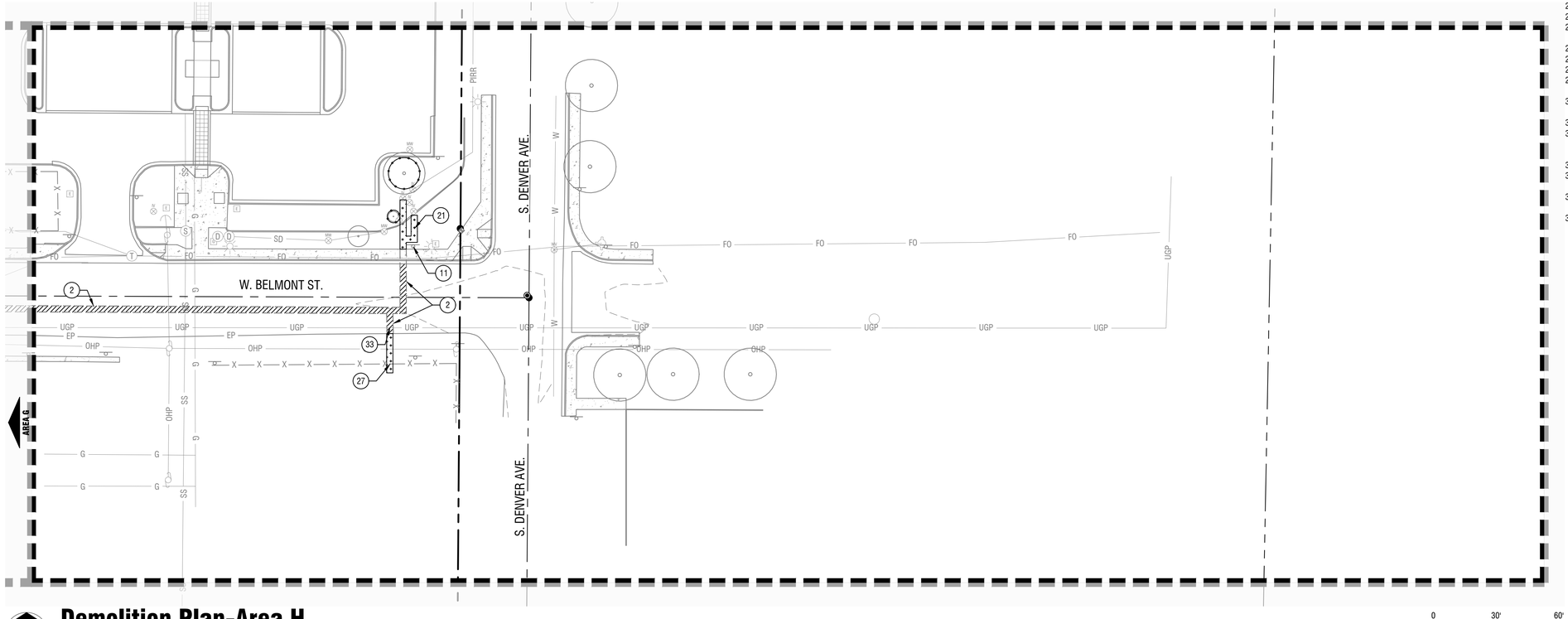
C1.04



Demolition Plan-Area G

Horizontal Scale: 1" = 30'

0 30' 60'



Demolition Plan-Area H

Horizontal Scale: 1" = 30'

0 30' 60'

Sheet Notes:

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PROFESSIONAL ENGINEER
REGISTERED
10961
STATE OF IDAHO
JASON DENSMER

07/30/2024

Project No.:	118145
Date of Issuance:	04/3/2024
Project Milestone:	Bid Set Documents

Demolition Plan Area G & H

C1.05

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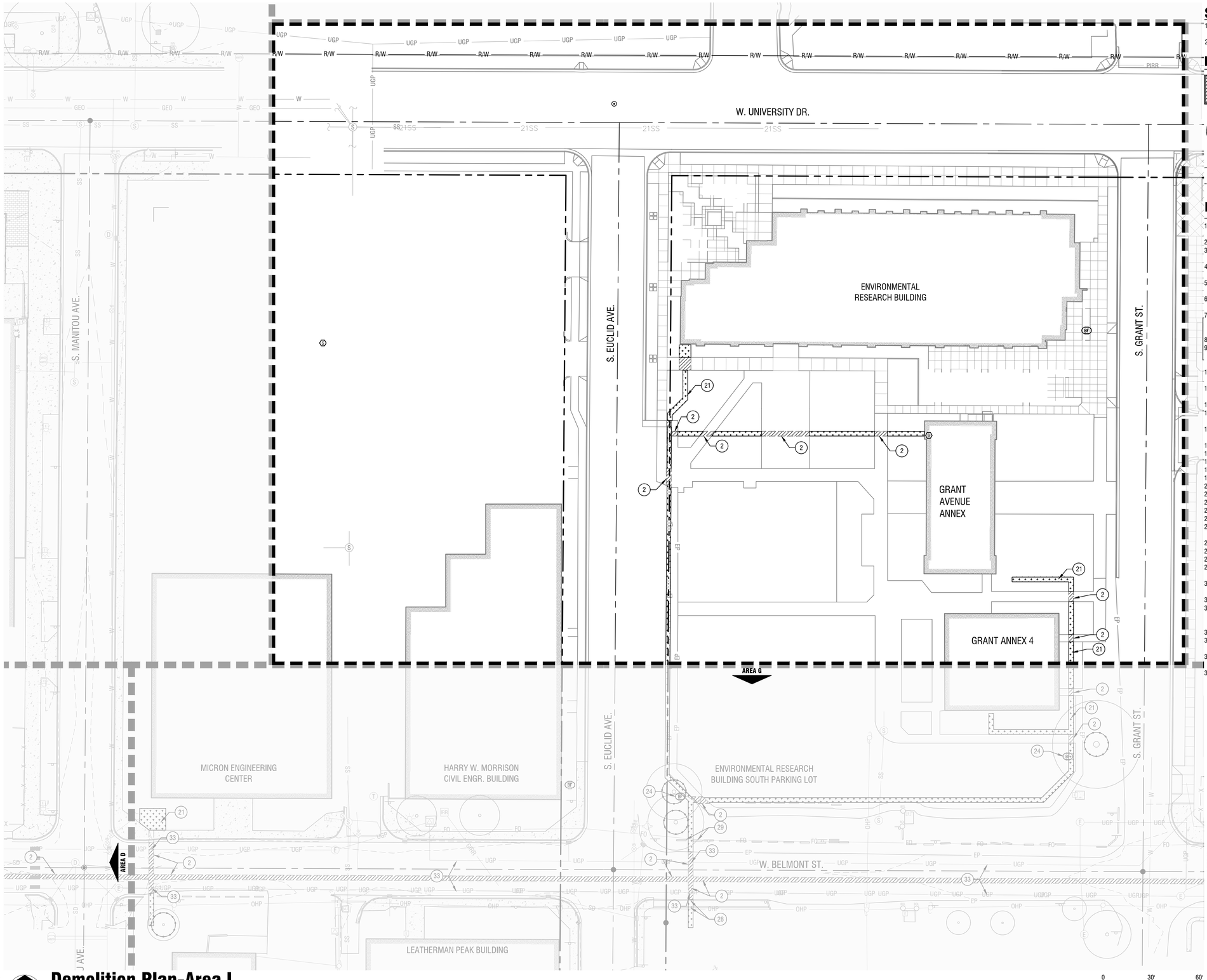

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9. REMOVE EXISTING PUMP STATION AND RETURN TO BSU (±1 MILE FROM SITE). CONTRACTOR TO BUST OUT BOTTOM OF WET WELL, KNOCK 18" OFF TOP OF WET WELL. COORDINATE WITH KEYNOTE 14/C2.04.
10. REMOVE AND REPLACE FENCE AS NEEDED. ENSURE FENCE IS RETURNED TO A STATE THAT MATCHES EXISTING CONDITIONS.
11. REMOVE AND PRESERVE SIGN. RETURN SIGN TO A STATE THAT MATCHES EXISTING CONDITIONS.
12. RETAIN AND PROTECT ELECTRICAL EQUIPMENT.
13. REMOVE AND DISPOSE OF PRESSURE IRRIGATION PIPE. COORDINATE WITH KEYNOTE 9 SHEET C2.02.
14. REMOVE AND SAVE EXISTING SIGN AND POST FOR RE-INSTALLING SEE C2.00 SERIES SHEETS.
15. REMOVE SECTION OF FENCING FOR INSTALLATION OF IRRIGATION MAINLINE.
16. RETAIN AND PROTECT EXISTING WATER METER.
17. RETAIN AND PROTECT EXISTING LIGHT POLE.
18. RETAIN AND PROTECT EXISTING FIRE HYDRANT.
19. RETAIN AND PROTECT EXISTING STORM DRAIN PIPING AND STRUCTURES.
20. REMOVE CHAINLINK FENCE AROUND EXISTING BUBBLER STRUCTURE.
21. RETAIN AND PROTECT EXISTING PI SYSTEM IN THIS GENERAL LOCATION.
22. REMOVE AND REINSTALL LANDSCAPE BOULDER COORDINATE WITH SHEET C2.02.
23. PRESERVE AND PROTECT PAVERS.
24. RETAIN AND PROTECT EXISTING BACKFLOW DEVICE.
25. RETAIN AND PROTECT BENCH OR TRASH RECEPTACLE AND PADS. COORDINATE WITH SHEET C2.03.
26. REMOVE AND DISPOSE OF EXISTING STUMP.
27. RETAIN AND PROTECT EXISTING FENCE.
28. RETAIN AND PROTECT EXISTING RAILROAD TIE. COORDINATE WITH C2.05.
29. RETAIN AND PROTECT EXISTING CONCRETE PARKING BUMPER. COORDINATE WITH C2.05.
30. REMOVE GRAVITY IRRIGATION PUMPSTATION AND RETURN TO OWNER. COORDINATE WITH ELECTRICAL PLANS FOR ELECTRICAL REMOVAL.
31. REMOVE SOLAR PANELS, POSTS, AND FOOTINGS. RETURN TO OWNER.
32. EXISTING WET WELL: BUST OUT BOTTOM OF MANHOLE, MAINTAIN EXISTING LID. PRESERVE AND PROTECT EXISTING CONCRETE FLAT WORK. COORDINATE WITH KEYNOTE 15/C2.02.
33. UNDERGROUND POWER VAULT, RETAIN AND PROTECT.
34. RETAIN AND PROTECT EXISTING CAR PORT. CONTRACTOR TO TEMPORARY RELOCATE AS NECESSARY FOR CONSTRUCTION ACCESS.
35. PROVIDE SPECIAL PROTECTION TO EXISTING IRRIGATION DURING STAGING IN THIS AREA.
36. RETAIN AND PROTECT SECTION OF 6-INCH MAINLINE.

Demolition Plan-Area I

Horizontal Scale: 1" = 30'

0 30' 60'

THE LAND GROUP

SOUTH CAMPUS PRESSURIZED IRRIGATION
BOISE STATE UNIVERSITY

1910 UNIVERSITY DRIVE
BOISE, IDAHO 83725

Revisions		
1.	Addendum 2	04/23/2024
2.	Addendum 3	05/16/2024
3.	Addendum 4	05/20/2024
4.	Addendum 5	05/21/2024
5.	Addendum 6	05/29/2024
6.	ACHD Comments	06/20/2024
7.	Conformance Set	07/22/2024
8.	DD3 Comments	07/30/2024

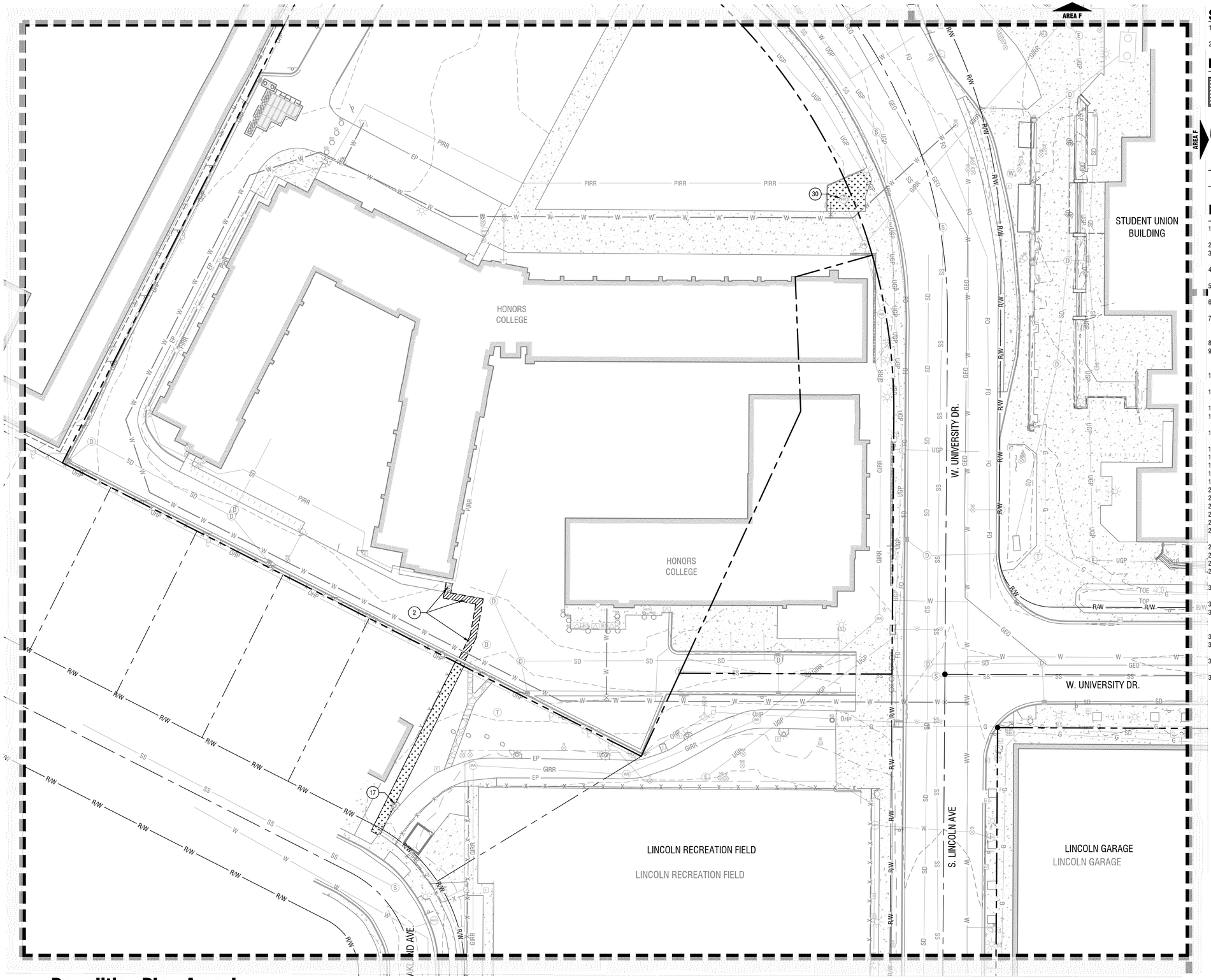
PROFESSIONAL ENGINEER REGISTERED 10961 STATE OF IDAHO JASON DENSMER

07/30/2024

Project No.:	118145
Date of Issuance:	04/3/2024
Project Milestone:	Bid Set Documents

Demolition Plan Area I

C1.06



Demolition Plan-Area J

Horizontal Scale: 1" = 30'

0 30' 60'

Sheet Notes:

1. ALL WORK SHALL BE COORDINATED WITH BSU PERSONNEL PRIOR TO CONSTRUCTION.
2. KEYNOTES MAY NOT BE SHOWN ON EACH SHEET.

Demolition Legend:

- REMOVE AND DISPOSE OF HARDSCAPE OFF-SITE.
- REMOVE AND DISPOSE OF LANDSCAPE. FIELD LOCATE IRRIGATION EQUIPMENT AND RETURN TO EXISTING CONDITIONS.
- RETAIN AND PROTECT EXISTING TREE, INSTALL PROTECTIVE FENCE AROUND TREE.
- REMOVE AND DISPOSE OF EXISTING TREE, GRIND STUMP 18" BELOW EXISTING GRADE MIN.
- SAW CUT - PROVIDE NEAT SAW CUT LINE OF ASPHALT AND CONCRETE
- TEMPORARY CONSTRUCTION FENCE

Keynotes:

(#) CALLOUT NUMBERS COORDINATED TO NUMBERED NOTES BELOW.

1. REMOVE AND DISPOSE OF GRAVITY IRRIGATION STRUCTURE AND RELATED COMPONENTS. CAP EXISTING GRAVITY PIPE TO THE NORTHWEST.
2. REMOVE AND DISPOSE OF ASPHALT OR CONCRETE PAVEMENT.
3. REMOVE AND DISPOSE OF FENCE. DISPOSE OF FABRIC, POSTS, FOOTINGS, AND MISC. ASSOCIATED MATERIAL.
4. REMOVE EXISTING GRAVITY IRRIGATION PIPE AS REQUIRED FOR WET WELL INSTALLATION. PLUG AND SEAL END OF PIPE TO PROVIDE WATER TIGHT SEAL.
5. RETAIN AND PROTECT EXISTING TREES. INSTALL PROTECTIVE FENCE AROUND TREE.
6. RETAIN AND PROTECT EXISTING GRAVITY IRRIGATION PIPE. PIPE WILL BE USED TO SLEEVE NEW PRESSURE IRRIGATION MAINLINE.
7. REMOVE AND DISPOSE OF IRRIGATION PIPE TO ACCOMMODATE NEW PRESSURIZED IRRIGATION MAINLINE ALIGNMENT. ABANDON IN PLACE ANY UNUSED PORTION OF GRAVITY IRRIGATION PIPE.
8. REMOVE AND DISPOSE OF GRAVITY IRRIGATION PIPE.
9. REMOVE EXISTING PUMP STATION AND RETURN TO BSU (±1 MILE FROM SITE). CONTRACTOR TO BUST OUT BOTTOM OF WET WELL, KNOCK 18" OFF TOP OF WET WELL. COORDINATE WITH KEYNOTE 14/C2.04.
10. REMOVE AND REPLACE FENCE AS NEEDED. ENSURE FENCE IS RETURNED TO A STATE THAT MATCHES EXISTING CONDITIONS.
11. REMOVE AND PRESERVE SIGN. RETURN SIGN TO A STATE THAT MATCHES EXISTING CONDITIONS.
12. RETAIN AND PROTECT ELECTRICAL EQUIPMENT.
13. REMOVE AND DISPOSE OF PRESSURE IRRIGATION PIPE. COORDINATE WITH KEYNOTE 9 SHEET C2.02.
14. REMOVE AND SAVE EXISTING SIGN AND POST FOR RE-INSTALLING SEE C2.00 SERIES SHEETS.
15. REMOVE SECTION OF FENCING FOR INSTALLATION OF IRRIGATION MAINLINE.
16. RETAIN AND PROTECT EXISTING WATER METER.
17. RETAIN AND PROTECT EXISTING LIGHT POLE.
18. RETAIN AND PROTECT EXISTING FIRE HYDRANT.
19. RETAIN AND PROTECT EXISTING STORM DRAIN PIPING AND STRUCTURES.
20. REMOVE CHAINLINK FENCE AROUND EXISTING BUBBLER STRUCTURE.
21. RETAIN AND PROTECT EXISTING PI SYSTEM IN THIS GENERAL LOCATION.
22. REMOVE AND REINSTALL LANDSCAPE BOULDER COORDINATE WITH SHEET C2.02.
23. PRESERVE AND PROTECT PAVERS.
24. RETAIN AND PROTECT EXISTING BACKFLOW DEVICE.
25. RETAIN AND PROTECT BENCH OR TRASH RECEPTACLE AND PADS. COORDINATE WITH SHEET C2.03.
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27. RETAIN AND PROTECT EXISTING FENCE.
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31. REMOVE SOLAR PANELS, POSTS, AND FOOTINGS. RETURN TO OWNER.
32. EXISTING WET WELL: BUST OUT BOTTOM OF MANHOLE, MAINTAIN EXISTING LID. PRESERVE AND PROTECT EXISTING CONCRETE FLAT WORK. COORDINATE WITH KEYNOTE 15/C2.02.
33. UNDERGROUND POWER VAULT, RETAIN AND PROTECT.
34. RETAIN AND PROTECT EXISTING CAR PORT. CONTRACTOR TO TEMPORARY RELOCATE AS NECESSARY FOR CONSTRUCTION ACCESS.
35. PROVIDE SPECIAL PROTECTION TO EXISTING IRRIGATION DURING STAGING IN THIS AREA.
36. RETAIN AND PROTECT SECTION OF 6-INCH MAINLINE.

THE LAND GROUP

SOUTH CAMPUS PRESSURIZED IRRIGATION
BOISE STATE UNIVERSITY

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PROFESSIONAL ENGINEER
REGISTERED
10961
STATE OF IDAHO
JASON DENSMER
07/30/2024

Project No.: 118145
Date of Issuance: 04/3/2024
Project Milestone: Bid Set Documents

Demolition Plan Area J

C1.07

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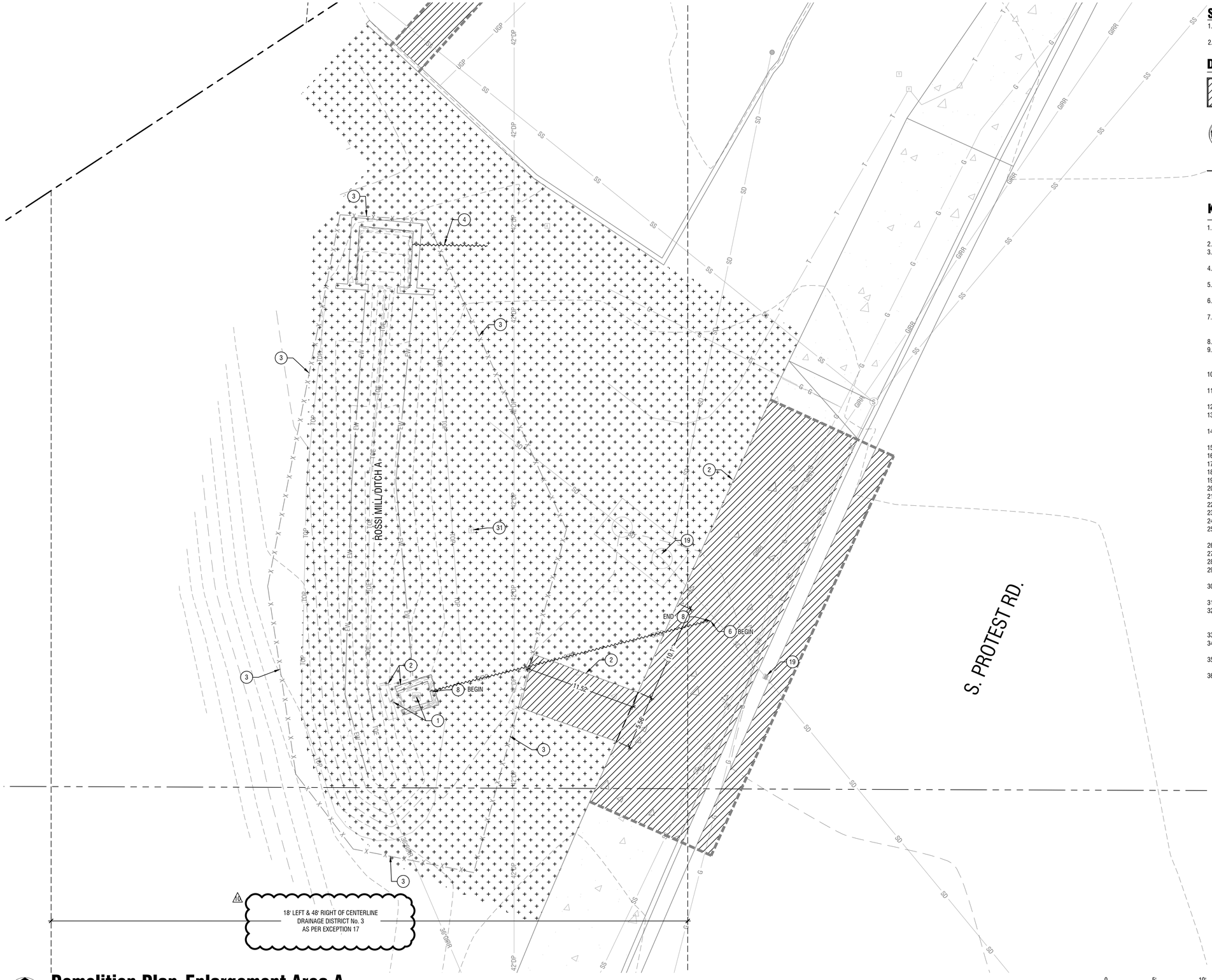
Last Modified: Tuesday, July 30,2024 at 01:12 PM
User Name: Tyler Peyton



Demolition Plan-Enlargement Area A

Horizontal Scale: 1" = 5'

Sheet Notes:

1. ALL WORK SHALL BE COORDINATED WITH BSU PERSONNEL PRIOR TO CONSTRUCTION.
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Demolition Legend:

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- REMOVE AND DISPOSE OF LANDSCAPE. FIELD LOCATE IRRIGATION EQUIPMENT AND RETURN TO EXISTING CONDITIONS.
- RETAIN AND PROTECT EXISTING TREE, INSTALL PROTECTIVE FENCE AROUND TREE.
- REMOVE AND DISPOSE OF EXISTING TREE, GRIND STUMP 18" BELOW EXISTING GRADE MIN.
- SAW CUT - PROVIDE NEAT SAW CUT LINE OF ASPHALT AND CONCRETE

Keynotes:

(#) CALLOUT NUMBERS COORDINATED TO NUMBERED NOTES BELOW.

1. REMOVE AND DISPOSE OF GRAVITY IRRIGATION STRUCTURE AND RELATED COMPONENTS. CAP EXISTING GRAVITY PIPE TO THE NORTHWEST.
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5. RETAIN AND PROTECT EXISTING TREES. INSTALL PROTECTIVE FENCE AROUND TREE.
6. RETAIN AND PROTECT EXISTING GRAVITY IRRIGATION PIPE. PIPE WILL BE USED TO SLEEVE NEW PRESSURE IRRIGATION MAINLINE.
7. REMOVE AND DISPOSE OF IRRIGATION PIPE TO ACCOMMODATE NEW PRESSURIZED IRRIGATION MAINLINE ALIGNMENT. ABANDON IN PLACE ANY UNUSED PORTION OF GRAVITY IRRIGATION PIPE.
8. REMOVE AND DISPOSE OF GRAVITY IRRIGATION PIPE.
9. REMOVE EXISTING PUMP STATION AND RETURN TO BSU (±1 MILE FROM SITE). CONTRACTOR TO BUST OUT BOTTOM OF WET WELL, KNOCK 18" OFF TOP OF WET WELL. COORDINATE WITH KEYNOTE 14/C2.04.
10. REMOVE AND REPLACE FENCE AS NEEDED. ENSURE FENCE IS RETURNED TO A STATE THAT MATCHES EXISTING CONDITIONS.
11. REMOVE AND PRESERVE SIGN. RETURN SIGN TO A STATE THAT MATCHES EXISTING CONDITIONS.
12. RETAIN AND PROTECT ELECTRICAL EQUIPMENT.
13. REMOVE AND DISPOSE OF PRESSURE IRRIGATION PIPE. COORDINATE WITH KEYNOTE 9 SHEET C2.02.
14. REMOVE AND SAVE EXISTING SIGN AND POST FOR RE-INSTALLING SEE C2.00 SERIES SHEETS.
15. REMOVE SECTION OF FENCING FOR INSTALLATION OF IRRIGATION MAINLINE.
16. RETAIN AND PROTECT EXISTING WATER METER.
17. RETAIN AND PROTECT EXISTING LIGHT POLE.
18. RETAIN AND PROTECT EXISTING FIRE HYDRANT.
19. RETAIN AND PROTECT EXISTING STORM DRAIN PIPING AND STRUCTURES.
20. REMOVE CHAINLINK FENCE AROUND EXISTING BUBBLER STRUCTURE.
21. RETAIN AND PROTECT EXISTING PI SYSTEM IN THIS GENERAL LOCATION.
22. REMOVE AND REINSTALL LANDSCAPE BOULDER COORDINATE WITH SHEET C2.02.
23. PRESERVE AND PROTECT PAVERS.
24. RETAIN AND PROTECT EXISTING BACKFLOW DEVICE.
25. RETAIN AND PROTECT BENCH OR TRASH RECEPTACLE AND PADS. COORDINATE WITH SHEET C2.03.
26. REMOVE AND DISPOSE OF EXISTING STUMP.
27. RETAIN AND PROTECT EXISTING FENCE.
28. RETAIN AND PROTECT EXISTING RAILROAD TIE. COORDINATE WITH C2.05.
29. RETAIN AND PROTECT EXISTING CONCRETE PARKING BUMPER. COORDINATE WITH C2.05.
30. REMOVE GRAVITY IRRIGATION PUMPSTATION AND RETURN TO OWNER. COORDINATE WITH ELECTRICAL PLANS FOR ELECTRICAL REMOVAL.
31. REMOVE SOLAR PANELS, POSTS, AND FOOTINGS. RETURN TO OWNER.
32. EXISTING WET WELL: BUST OUT BOTTOM OF MANHOLE, MAINTAIN EXISTING LID. PRESERVE AND PROTECT EXISTING CONCRETE FLAT WORK. COORDINATE WITH KEYNOTE 15/C2.02.
33. UNDERGROUND POWER VAULT, RETAIN AND PROTECT.
34. RETAIN AND PROTECT EXISTING CAR PORT. CONTRACTOR TO TEMPORARY RELOCATE AS NECESSARY FOR CONSTRUCTION ACCESS.
35. PROVIDE SPECIAL PROTECTION TO EXISTING IRRIGATION DURING STAGING IN THIS AREA.
36. RETAIN AND PROTECT SECTION OF 6-INCH MAINLINE.

THE LAND GROUP

SOUTH CAMPUS PRESSURIZED IRRIGATION
BOISE STATE UNIVERSITY

1910 UNIVERSITY DRIVE
BOISE, IDAHO 83725

Revisions		
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2.	Addendum 3	05/16/2024
3.	Addendum 4	05/20/2024
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6.	ACHD Comments	06/20/2024
7.	Conformance Set	07/22/2024
8.	DD3 Comments	07/30/2024
9.	Veolia comments	08/29/2024
10.	DD3 Comments	09/03/2024

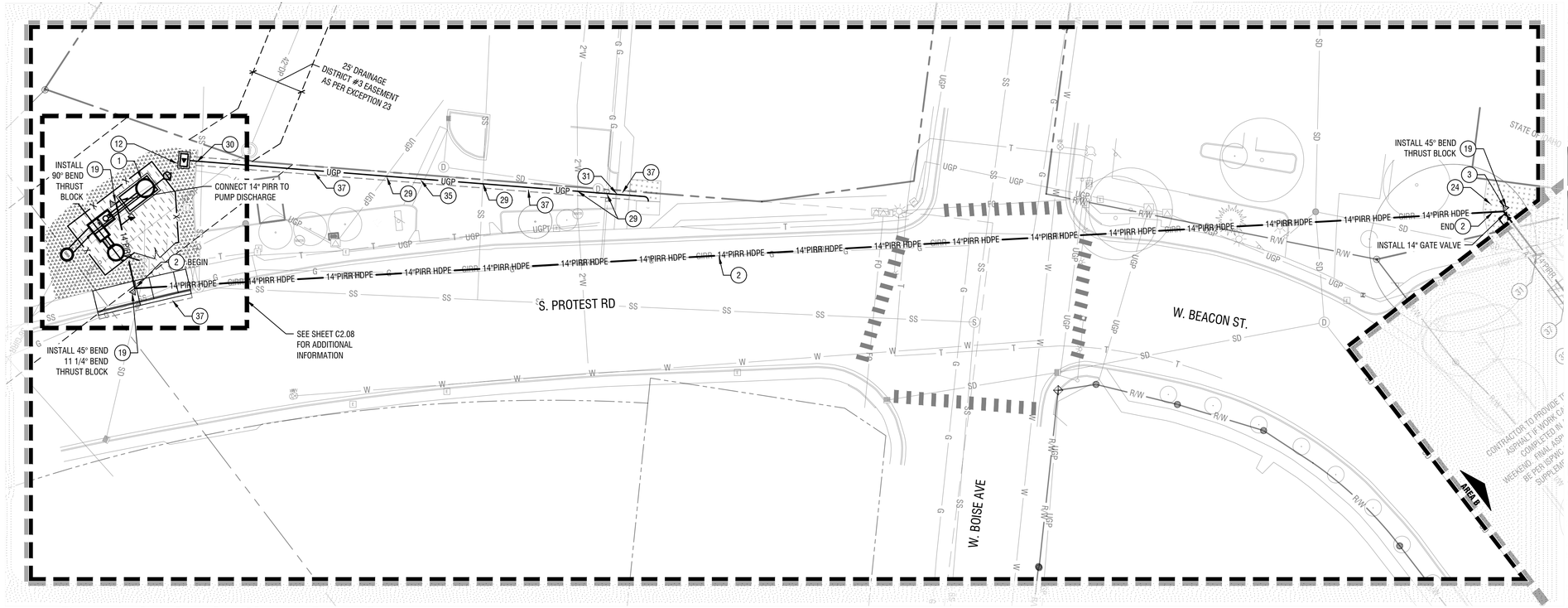
PROFESSIONAL ENGINEER
REGISTERED
10961
STATE OF IDAHO
JASON DENSMER

09/03/2024

Project No.:	118145
Date of Issuance:	04/3/2024
Project Milestone:	Bid Set Documents

Demolition Plan Enlargement Area A

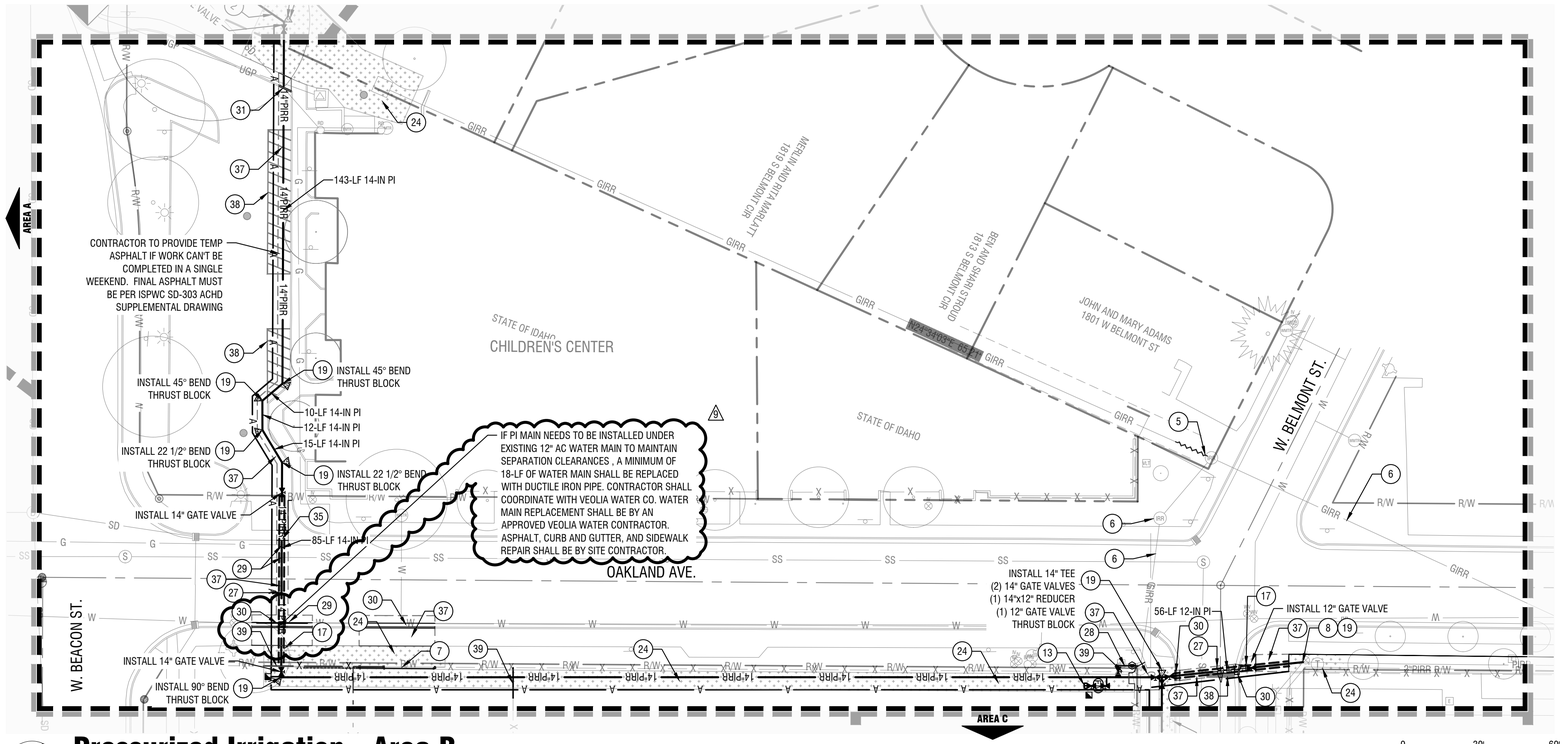
C1.08



Pressurized Irrigation - Area A

Horizontal Scale: 1" = 30'

0 30' 60'



Pressurized Irrigation - Area B

Horizontal Scale: 1" = 30'

0 30' 60'

Sheet Notes:

1. ALL WORK SHALL BE COORDINATED WITH BSU PERSONNEL PRIOR TO CONSTRUCTION.
2. KEYNOTES MAY NOT BE SHOWN ON EACH SHEET.
3. ALL PIPE SHALL BE EXCAVATED AND INSTALLED PER ISPWC SECTIONS 301, SECTION 305, AND DETAILS 1,2,3/C2.51.
4. ALL CONCRETE REPAIRS SHALL BE PER ISPWC DIVISION 700, SECTIONS TO MATCH ADJACENT EXISTING SECTIONS.
5. ALL TRENCHING SURFACE REPAIRED SHALL BE PER STANDARD STREET CUTS AND SURFACE REPAIR DETAIL ISPWC SD-303 ACHD SUPPLEMENTAL DRAWING.

Material Legend:

- 4-INCH DEPTH 3/4-IN MINUS ROAD MIX
- HYDRO-SEED PER SPECIFICATION SECTION 329100.
- LANDSCAPE REPAIR SEE LANDSCAPE SHEET L1.00.
- SOD REPAIR. INSTALLED PER SPECIFICATION SECTION 329200.
- X — 6' BLACK VINYL COATED CHAIN LINK FENCE WITH PRIVACY SLATS PER DETAIL 1/2.50 AND SPECIFICATION SECTION 323113.
- 2"PIRR — 2-INCH MAINLINE - PVC SCH. 40
- 3"PIRR — 3-INCH MAINLINE - PVC CLASS 200 SDR 21
- 6"PIRR — 6-INCH MAINLINE - C900 CLASS 305 (DR 25)
- 10"PIRR — 10-INCH MAINLINE - C900 CLASS 305 (DR 18)
- 12"PIRR — 12-INCH MAINLINE - C900 CLASS 305 (DR 18)
- 14"PIRR — 14-INCH MAINLINE - C900 CLASS 305 (DR 18)
- 14"PIRR HDPE — 14-INCH MAINLINE - HDPE SEE KEYNOTE 2 FOR LOCATION.
- MAINLINE GATE VALVE SIZE PER PIPE SIZE. INSTALL PER ISPWC SD 406 AND 5/C2.51.
- MAINLINE DRAIN 2-INCH VALVE WITH 2-INCH PIPE SIZE. INSTALL PER DETAIL 6/C2.51.
- QUICK COUPLER VALVE RAINBIRD 44-RC. INSTALL PER DETAIL 4/C2.51.
- UGP — UNDERGOUND POWER, SEE ELECTRICAL PLANS.
- A — 12-GAUGE TWO WIRE PATH PER SPECIFICATIONS. ALL WIRE SHALL BE SLEEVED INSIDE 2-INCH CONDUIT.

Keynotes:

(#) CALLOUT NUMBERS COORDINATED TO NUMBERED NOTES BELOW.

1. NEW PUMP STATION LOCATION SEE SHEET C5.00.
2. NEW HDPE MAINLINE TO BE SLEEVED INSIDE OF EXISTING 18-INCH RCP GRAVITY IRRIGATION PIPE. INSTALL SPACERS PER DETAIL 6/C2.50.
3. FIELD LOCATE EXISTING GIRR LINE, INTERCEPT AND CONTINUE NEW MAINLINE IN OPEN TRENCH AS INDICATED ON PLAN.
4. LANDSCAPE REPAIR AT EXISTING BUBBLER. AREA TO RECEIVE NEW SOD.
5. CAP EXISTING GRAVITY PIPE INVERT TO THE SOUTHWEST INSIDE OF STRUCTURE. ENSURE WATER FLOW CAN STILL CONTINUE THROUGH STRUCTURE FROM INVERT TO THE EAST TO INVERT OUT TO THE NORTH.
6. RETAIN AND PROTECT EXISTING GIRR.
7. NEW 20-FT ROLLING GATE. MATCH EXISTING CHAINLINK FENCE MATERIAL.
8. FIELD LOCATE EXISTING 6-INCH MAINLINE AND CONNECT NEW MAINLINE AS SHOWN ON PLANS.
9. INSTALL NEW MAINLINE AS SHOWN ON PLANS, FOLLOW EXISTING 6-INCH ROUTE COORDINATE WITH KEYNOTE 13 AND 36 ON SHEET C1.02.
10. CONNECT NEW 6-INCH MAINLINE TO EXISTING MAINLINE AND CONTINUE AS SHOWN ON PLANS.
11. CONNECT NEW 10-INCH MAINLINE TO EXISTING PUMP STATION MAINLINE IN THIS GENERAL LOCATION.
12. TRANSFORMER BY IPCO, SEE ELECTRICAL SHEETS.
13. INSTALL 3-INCH MAINLINE SERVICE, FIELD LOCATE EXISTING IRRIGATION AND CONNECT TO BLOCK. INSTALL FLOW METER PER DETAIL 5/C2.51.
14. EXISTING PUMP STATION 72-INCH WET WELL RIM: 2697.43 | SUMP: 2688: BREAK UP BOTTOM OF WET WELL. FILL WITH 3/4" CRUSHED AGGREGATE TO WITHIN 18-INCHES OF FINISHED GROUND. SEE LANDSCAPE SHEET L1.01.
15. EXISTING 72-INCH WET WELL RIM: 2701.80 | SUMP: 2685.80. BREAK UP BOTTOM OF WET WELL. FILL WITH 3/4" CRUSHED AGGREGATE TO 1-FT BELOW EXISTING LID. PRESERVE AND PROTECT EXISTING LID AND CONCRETE FLATWORK.
16. REMOVE CLEMENS SELF CLEANING SCREEN AND DISPOSE OF. PLUG 12-INCH PIPE EXTENDING TO EXISTING WET WELL. PROVIDE WATER TIGHT SEAL.
17. RE-INSTALL SIGN PER DETAIL 3/C2.50. COORDINATE WITH DEMOLITION PLANS.
18. INSTALL PUMP STATION WET WELL AND GRAVITY IRRIGATION STRUCTURES PER SHEETS C4.01 AND C4.50.
19. INSTALL THRUST BLOCK PER ISPWC SD-403.
20. CAP EXISTING IRRIGATION MAINLINE FROM OLD PUMPSTATION AND INSTALL DRAIN VALVE PER DETAIL 6/C2.51. CONTRACTOR TO BUST OUT BOTTOM OF WET WELL: 48-INCH RIM: 2700.18 | SUMP 2688.85. FILL WITH DRAIN ROCK. KNOCK 30" OFF TOP OF WET WELL AND CAP WITH TOPSOIL. SEE LANDSCAPE SHEET L1.02.
21. CAP EXISTING GRAVITY PIPE INVERT TO THE NORTHWEST INSIDE OF STRUCTURE. REMOVE AND DISPOSE OF CLEMENS SELF CLEANING SCREEN. ENSURE WATER FLOW CAN STILL CONTINUE THROUGH STRUCTURE FROM INVERT TO THE SOUTH TO INVERT OUT TO THE NORTHEAST.
22. INSTALL NEW 3-INCH SCH. 40 PVC SUB MAINLINE PER DETAIL 1/C2.51.
    22.1. CONNECT ALL EXISTING VALVES TO NEW LINE.
23. FIELD LOCATE EXISTING SUB MAINLINE AND CONNECT NEW 3-INCH SERVICE. ENSURE ALL CONNECTIONS ARE 100% WATER TIGHT.
24. REPAIR LANDSCAPE DISTURBANCE TO PRE-CONSTRUCTION CONDITION SOD TO SOD, LANDSCAPE MULCH TO MATCH EXISTING MULCH AND DEPTH.
25. ROUTE 2-WIRE PATH INSIDE OF BUILDING AND CONNECT TO SUB STATION. UTILIZE EXISTING WIRE SWEEPS. COORDINATE WITH OWNER FOR LOCATION.
26. FIELD LOCATE EXISTING CONTROLLER INSTALL BASELINE P-BOARD AND CONNECT ALL COMMON WIRES. CONNECT 2-WIRE PATH TO SUBSTATION CONTROLLER.
27. MAINLINE SLEEVING PER DETAIL 6/C2.50. WIRE SLEEVING PER 2/C2.51.
28. INSTALL 2-INCH DRAIN VALVE TO GRAVITY STRUCTURE PER DETAIL 6/C2.51.
29. UTILITY CROSSING. PROVIDE POTABLE/NON-POTABLE HORIZONTAL AND VERTICAL SEPARATION PER ISPWC SD-407. ADD FITTING(S) AS REQUIRED TO RAISE OR LOWER PIPE TO MEET SEPARATION REQUIREMENTS. SEE DETAIL 8/C2.50.
30. ISPWC SD-701 (ACHD SUPPLEMENTAL) 6" VERTICAL CURB AND GUTTER.
31. ISPWC SD-701A 6" VERTICAL CURB OR MATCH EXISTING.
32. REPAIR PEDESTRIAN RAMP, PER ISPWC SUPPLEMENTAL SD-712.
33. INSTALL DRIVEWAY APPROACH PER ISPWC ACHD SUPPLEMENTAL SD-710A.
34. EXISTING BENCH OR TRASH RECEPTACLE GREEN DOWN EXISTING CONCRETE PAD TO NEW CONCRETE.
35. REPAIR VALLEY GUTTER, PER ISPWC ACHD SUPPLEMENTAL SD-708.
36. INSTALL NEW CURB PER DETAIL 4/C2.50.
37. STANDARD STREET CUTS AND SURFACE REPAIR PER ISPWC SD-303 ACHD SUPPLEMENTAL DRAWING.
38. REPAIR DAMAGE TO STREET CROSSING MARKINGS PER ISPWC SECTION 1104.
39. REPAIR FENCING TO ORIGINAL CONDITIONS.
40. UNDERGROUND POWER VAULT CROSSING.
41. REINSTALL CONCRETE UNIT PAVERS COORDINATE WITH DEMO SHEET FOR PAVER RE-USE. SEE DETAIL 5/C2.50.
42. INSTALL DOUBLE CHAINLINK GATE WITH LOCKABLE LATCH. SIZE 20-FT.
43. 5-INCH CONCRETE PAD FOR PUMP STATION SKID PER ISPWC DIVISION 700.
44. INSTALL NEW STRONG BOX SB-16SS PEDESTAL FOR EXISTING CONTROLLER IN THIS GENERAL LOCATION. COORDINATE WITH BSU MAINTENANCE STAFF FOR FINAL LOCATION. SEE ELECTRICAL AND DETAIL 7/C2.51.
45. NEW GRAVITY IRRIGATION STRUCTURE SEE SHEET C4.02.
46. INSTALL NEW ROOT BARRIER UB24 BY GRASSROOTS, BOTH SIDES OF STRIP.
47. GIRR IMPROVEMENTS PER C4.02.

THE LAND GROUP

SOUTH CAMPUS PRESSURIZED IRRIGATION
BOISE STATE UNIVERSITY

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Revisions		
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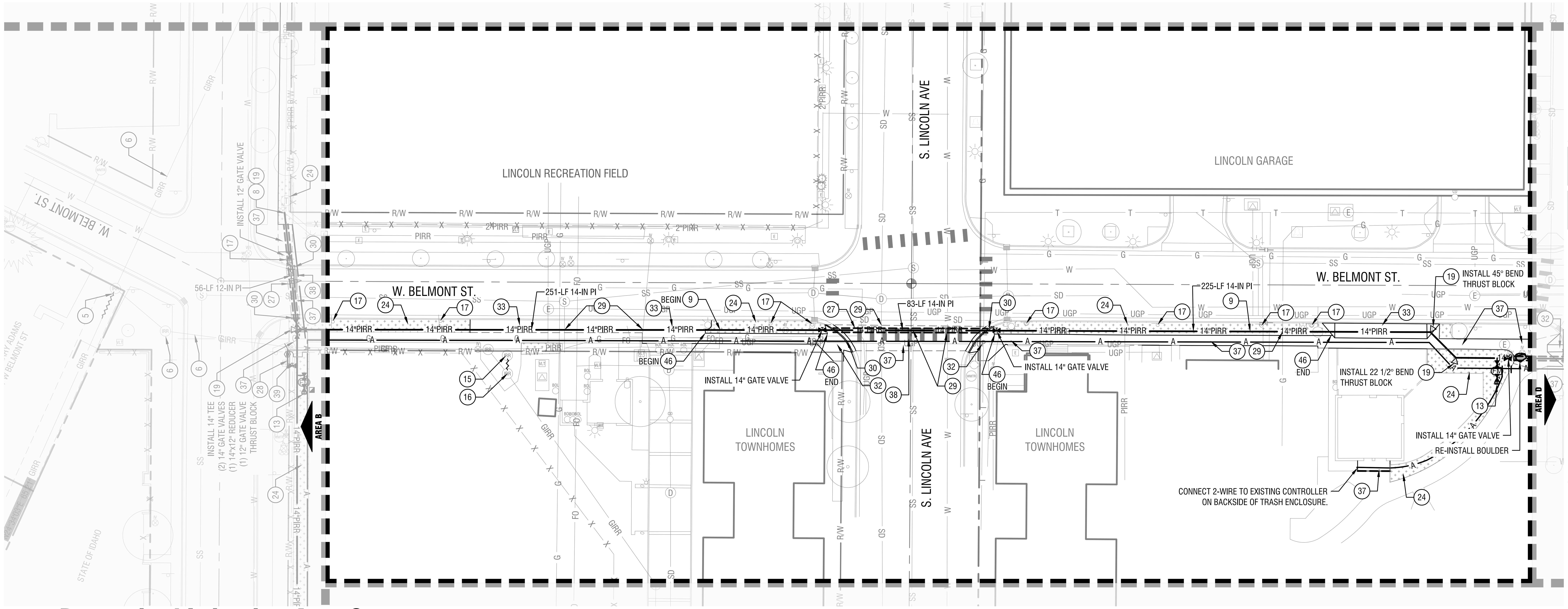
PROFESSIONAL ENGINEER REGISTERED 10961 STATE OF IDAHO JASON DENSMER

08/29/2024

Project No.: 118145
Date of Issuance: 04/3/2024
Project Milestone: Bid Set Documents

Pressurized Irrigation Area A & B

C2.01

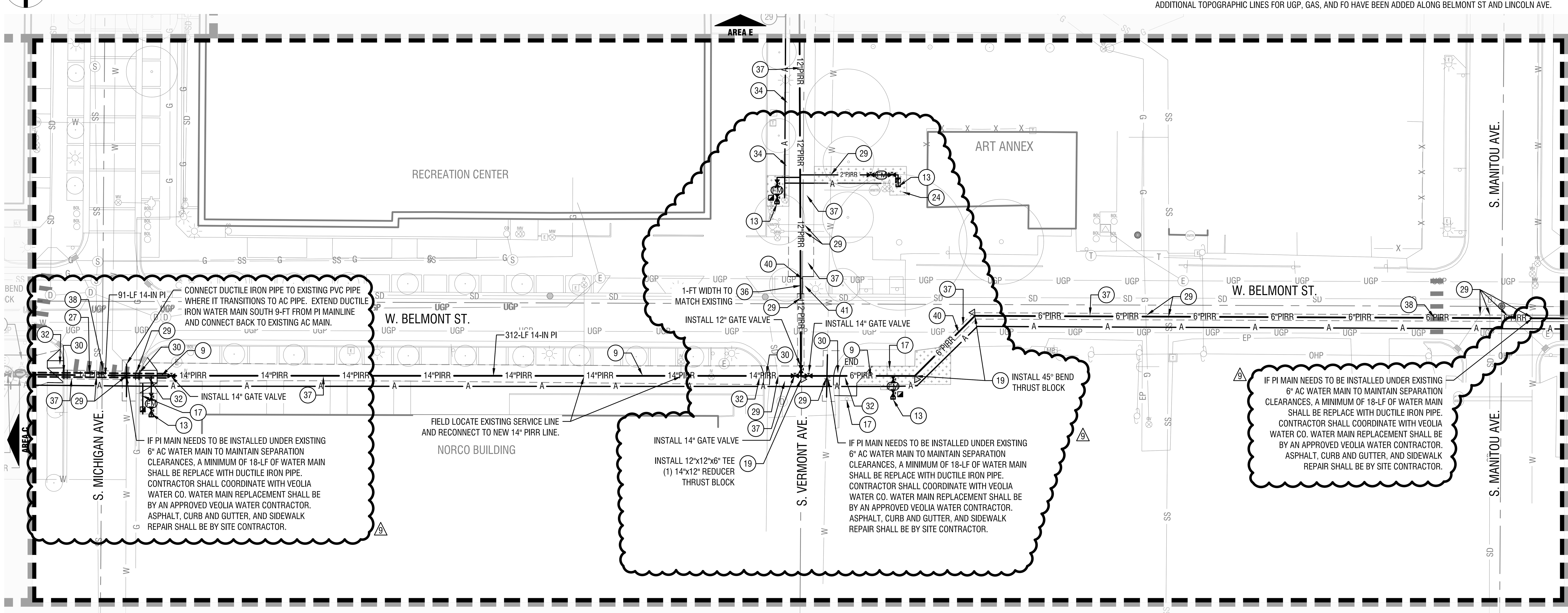


Pressurized Irrigation-Area C

Horizontal Scale: 1" = 30'

0 30' 60'

ADDITIONAL TOPOGRAPHIC LINES FOR UGP, GAS, AND FO HAVE BEEN ADDED ALONG BELMONT ST AND LINCOLN AVE.



Pressurized Irrigation-Area D

Horizontal Scale: 1" = 30'

0 30' 60'

Sheet Notes:

1. ALL WORK SHALL BE COORDINATED WITH BSU PERSONNEL PRIOR TO CONSTRUCTION.
2. KEYNOTES MAY NOT BE SHOWN ON EACH SHEET.
3. ALL PIPE SHALL BE EXCAVATED AND INSTALLED PER ISPWC SECTIONS 301, SECTION 305, AND DETAILS 1,2,3/C2.51.
4. ALL CONCRETE REPAIRS SHALL BE PER ISPWC DIVISION 700, SECTIONS TO MATCH ADJACENT EXISTING SECTIONS.
5. ALL TRENCHING SURFACE REPAIRED SHALL BE PER STANDARD STREET CUTS AND SURFACE REPAIR DETAIL ISPWC SD-303 ACHD SUPPLEMENTAL DRAWING.

Material Legend:

- 4-INCH DEPTH 3/4-IN MINUS ROAD MIX
- HYDRO-SEED PER SPECIFICATION SECTION 329100.
- LANDSCAPE REPAIR SEE LANDSCAPE SHEET L1.00.
- SOD REPAIR. INSTALLED PER SPECIFICATION SECTION 329200.

X	6' BLACK VINYL COATED CHAIN LINK FENCE WITH PRIVACY SLATS PER DETAIL 1/2.50 AND SPECIFICATION SECTION 323113.
2"PIRR	2-INCH MAINLINE - PVC SCH. 40
3"PIRR	3-INCH MAINLINE - PVC CLASS 200 SDR 21
6"PIRR	6-INCH MAINLINE - C900 CLASS 305 (DR 25)
10"PIRR	10-INCH MAINLINE - C900 CLASS 305 (DR 18)
12"PIRR	12-INCH MAINLINE - C900 CLASS 305 (DR 18)
14"PIRR	14-INCH MAINLINE - C900 CLASS 305 (DR 18)
14"PIRR HDPE	14-INCH MAINLINE - HDPE SEE KEYNOTE 2 FOR LOCATION.

- MAINLINE GATE VALVE SIZE PER PIPE SIZE. INSTALL PER ISPWC SD 406 AND 5/C2.51.
- MAINLINE DRAIN 2-INCH VALVE WITH 2-INCH PIPE SIZE. INSTALL PER DETAIL 6/C2.51.
- QUICK COUPLER VALVE RAINBIRD 44-RC. INSTALL PER DETAIL 4/C2.51.

UGP	UNDERGOUND POWER, SEE ELECTRICAL PLANS.
A	12-GAUGE TWO WIRE PATH PER SPECIFICATIONS. ALL WIRE SHALL BE SLEEVED INSIDE 2-INCH CONDUIT.

Keynotes:

\# CALLOUT NUMBERS COORDINATED TO NUMBERED NOTES BELOW.

1. NEW PUMP STATION LOCATION SEE SHEET C5.00.
2. NEW HDPE MAINLINE TO BE SLEEVED INSIDE OF EXISTING 18-INCH RCP GRAVITY IRRIGATION PIPE. INSTALL SPACERS PER DETAIL 6/C2.50.
3. FIELD LOCATE EXISTING GIRR LINE, INTERCEPT AND CONTINUE NEW MAINLINE IN OPEN TRENCH AS INDICATED ON PLAN.
4. LANDSCAPE REPAIR AT EXISTING BUBBLER. AREA TO RECEIVE NEW SOD.
5. CAP EXISTING GRAVITY PIPE INVERT TO THE SOUTHWEST INSIDE OF STRUCTURE. ENSURE WATER FLOW CAN STILL CONTINUE THROUGH STRUCTURE FROM INVERT TO THE EAST TO INVERT OUT TO THE NORTH.
6. RETAIN AND PROTECT EXISTING GIRR.
7. NEW 20-FT ROLLING GATE. MATCH EXISTING CHAINLINK FENCE MATERIAL.
8. FIELD LOCATE EXISTING 6-INCH MAINLINE AND CONNECT NEW MAINLINE AS SHOWN ON PLANS.
9. INSTALL NEW MAINLINE AS SHOWN ON PLANS, FOLLOW EXISTING 6-INCH ROUTE COORDINATE WITH KEYNOTE 13 AND 36 ON SHEET C1.02.
10. CONNECT NEW 6-INCH MAINLINE TO EXISTING MAINLINE AND CONTINUE AS SHOWN ON PLANS.
11. CONNECT NEW 10-INCH MAINLINE TO EXISTING PUMP STATION MAINLINE IN THIS GENERAL LOCATION.
12. TRANSFORMER BY IPCO, SEE ELECTRICAL SHEETS.
13. INSTALL 3-INCH MAINLINE SERVICE, FIELD LOCATE EXISTING IRRIGATION AND CONNECT TO BLOCK. INSTALL FLOW METER PER DETAIL 5/C2.51.
14. EXISTING PUMP STATION 72-INCH WET WELL RIM: 2697.43 | SUMP: 2688: BREAK UP BOTTOM OF WET WELL. FILL WITH 3/4" CRUSHED AGGREGATE TO WITHIN 18-INCHES OF FINISHED GROUND. SEE LANDSCAPE SHEET L1.01.
15. EXISTING 72-INCH WET WELL RIM: 2701.80 | SUMP: 2685.80. BREAK UP BOTTOM OF WET WELL. FILL WITH 3/4" CRUSHED AGGREGATE TO 1-FT BELOW EXISTING LID. PRESERVE AND PROTECT EXISTING LID AND CONCRETE FLATWORK.
16. REMOVE CLEMENS SELF CLEANING SCREEN AND DISPOSE OF. PLUG 12-INCH PIPE EXTENDING TO EXISTING WET WELL. PROVIDE WATER TIGHT SEAL.
17. RE-INSTALL SIGN PER DETAIL 3/C2.50. COORDINATE WITH DEMOLITION PLANS.
18. INSTALL PUMP STATION WET WELL AND GRAVITY IRRIGATION STRUCTURES PER SHEETS C4.01 AND C4.50.
19. INSTALL THRUST BLOCK PER ISPWC SD-403.
20. CAP EXISTING IRRIGATION MAINLINE FROM OLD PUMPSTATION AND INSTALL DRAIN VALVE PER DETAIL 6/C2.51. CONTRACTOR TO BUST OUT BOTTOM OF WET WELL: 48-INCH RIM: 2700.18 | SUMP 2688.85. FILL WITH DRAIN ROCK. KNOCK 30" OFF TOP OF WET WELL AND CAP WITH TOPSOIL. SEE LANDSCAPE SHEET L1.02.
21. CAP EXISTING GRAVITY PIPE INVERT TO THE NORTHWEST INSIDE OF STRUCTURE. REMOVE AND DISPOSE OF CLEMENS SELF CLEANING SCREEN. ENSURE WATER FLOW CAN STILL CONTINUE THROUGH STRUCTURE FROM INVERT TO THE SOUTH TO INVERT OUT TO THE NORTHEAST.
22. INSTALL NEW 3-INCH SCH. 40 PVC SUB MAINLINE PER DETAIL 1/C2.51.
    22.1. CONNECT ALL EXISTING VALVES TO NEW LINE.
23. FIELD LOCATE EXISTING SUB MAINLINE AND CONNECT NEW 3-INCH SERVICE. ENSURE ALL CONNECTIONS ARE 100% WATER TIGHT.
24. REPAIR LANDSCAPE DISTURBANCE TO PRE-CONSTRUCTION CONDITION SOD TO SOD, LANDSCAPE MULCH TO MATCH EXISTING MULCH AND DEPTH.
25. ROUTE 2-WIRE PATH INSIDE OF BUILDING AND CONNECT TO SUB STATION. UTILIZE EXISTING WIRE SWEEPS. COORDINATE WITH OWNER FOR LOCATION.
26. FIELD LOCATE EXISTING CONTROLLER INSTALL BASELINE R-BOARD AND CONNECT ALL COMMON WIRES. CONNECT 2-WIRE PATH TO SUBSTATION CONTROLLER.
27. MAINLINE SLEEVING PER DETAIL 6/C2.50. WIRE SLEEVING PER 2/C2.51.
28. INSTALL 2-INCH DRAIN VALVE TO GRAVITY STRUCTURE PER DETAIL 6/C2.51.
29. UTILITY CROSSING. PROVIDE POTABLE/NON-POTABLE HORIZONTAL AND VERTICAL SEPARATION PER ISPWC SD-407. ADD FITTING(S) AS REQUIRED TO RAISE OR LOWER PIPE TO MEET SEPARATION REQUIREMENTS. SEE DETAIL 8/C2.50.
30. ISPWC SD-701 (ACHD SUPPLEMENTAL) 6" VERTICAL CURB AND GUTTER.
31. ISPWC SD-701A 6" VERTICAL CURB OR MATCH EXISTING.
32. REPAIR PEDESTRIAN RAMP, PER ISPWC SUPPLEMENTAL SD-712.
33. INSTALL DRIVEWAY APPROACH PER ISPWC ACHD SUPPLEMENTAL SD-710A.
34. EXISTING BENCH OR TRASH RECEPTACLE GREEN DOWN EXISTING CONCRETE PAD TO NEW CONCRETE.
35. REPAIR VALLEY GUTTER, PER ISPWC ACHD SUPPLEMENTAL SD-708.
36. INSTALL NEW CURB PER DETAIL 4/C2.50.
37. STANDARD STREET CUTS AND SURFACE REPAIR PER ISPWC SD-303 ACHD SUPPLEMENTAL DRAWING.
38. REPAIR DAMAGE TO STREET CROSSING MARKINGS PER ISPWC SECTION 1104.
39. REPAIR FENCING TO ORIGINAL CONDITIONS.
40. UNDERGROUND POWER VAULT CROSSING.
41. REINSTALL CONCRETE UNIT PAVERS COORDINATE WITH DEMO SHEET FOR PAVER RE-USE. SEE DETAIL 5/C2.50.
42. INSTALL DOUBLE CHAINLINK GATE WITH LOCKABLE LATCH. SIZE 20-FT.
43. 5-INCH CONCRETE PAD FOR PUMP STATION SKID PER ISPWC DIVISION 700.
44. INSTALL NEW STRONG BOX SB-16SS PEDESTAL FOR EXISTING CONTROLLER IN THIS GENERAL LOCATION. COORDINATE WITH BSU MAINTENANCE STAFF FOR FINAL LOCATION. SEE ELECTRICAL AND DETAIL 7/C2.51.
45. NEW GRAVITY IRRIGATION STRUCTURE SEE SHEET C4.02.
46. INSTALL NEW ROOT BARRIER UB24 BY GRASSROOTS, BOTH SIDES OF STRIP.
47. GIRR IMPROVEMENTS PER C4.02.

THE LAND GROUP

SOUTH CAMPUS PRESSURIZED IRRIGATION
BOISE STATE UNIVERSITY

1910 UNIVERSITY DRIVE
BOISE, IDAHO 83725

Revisions △1

1.	Addendum 2	04/23/2024
2.	Addendum 3	05/16/2024
3.	Addendum 4	05/20/2024
4.	Addendum 5	05/21/2024
5.	Addendum 6	05/29/2024
6.	ACHD Comments	06/20/2024
7.	Conformance Set	07/22/2024
8.	DD3 Comments	07/30/2024
9.	Veolia comments	08/29/2024

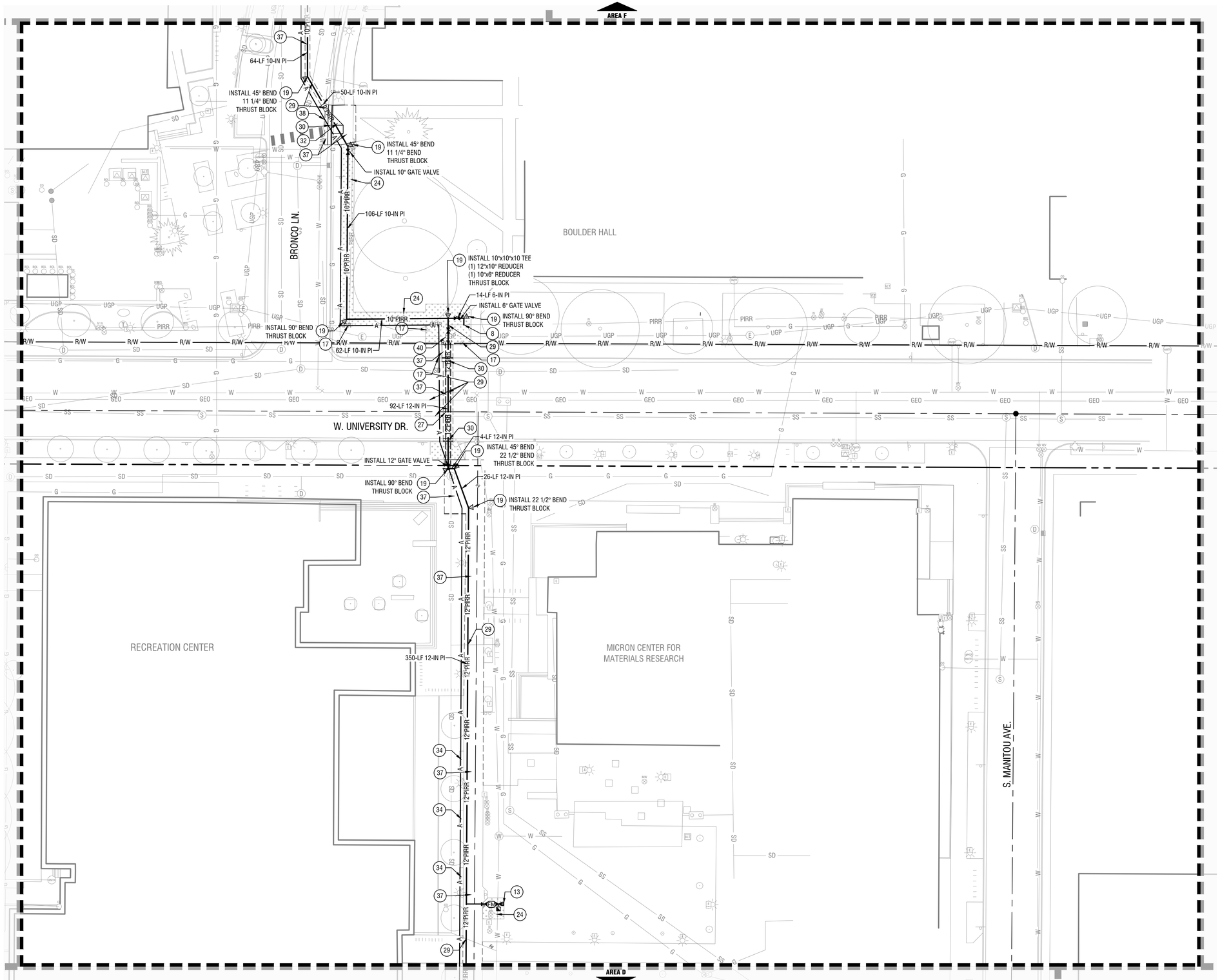
PROFESSIONAL ENGINEER REGISTERED 10961 STATE OF IDAHO JASON DENSMER

08/29/2024

Project No.:	118145
Date of Issuance:	04/3/2024
Project Milestone:	Bid Set Documents

Pressurized Irrigation Area C & D

C2.02



Pressurized Irrigation - Area E

Horizontal Scale: 1" = 30'

0 30' 60'

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THE LAND GROUP

SOUTH CAMPUS PRESSURIZED IRRIGATION
BOISE STATE UNIVERSITY

1910 UNIVERSITY DRIVE
BOISE, IDAHO 83725

Revisions		
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7.	Conformance Set	07/22/2024
8.	DD3 Comments	07/30/2024

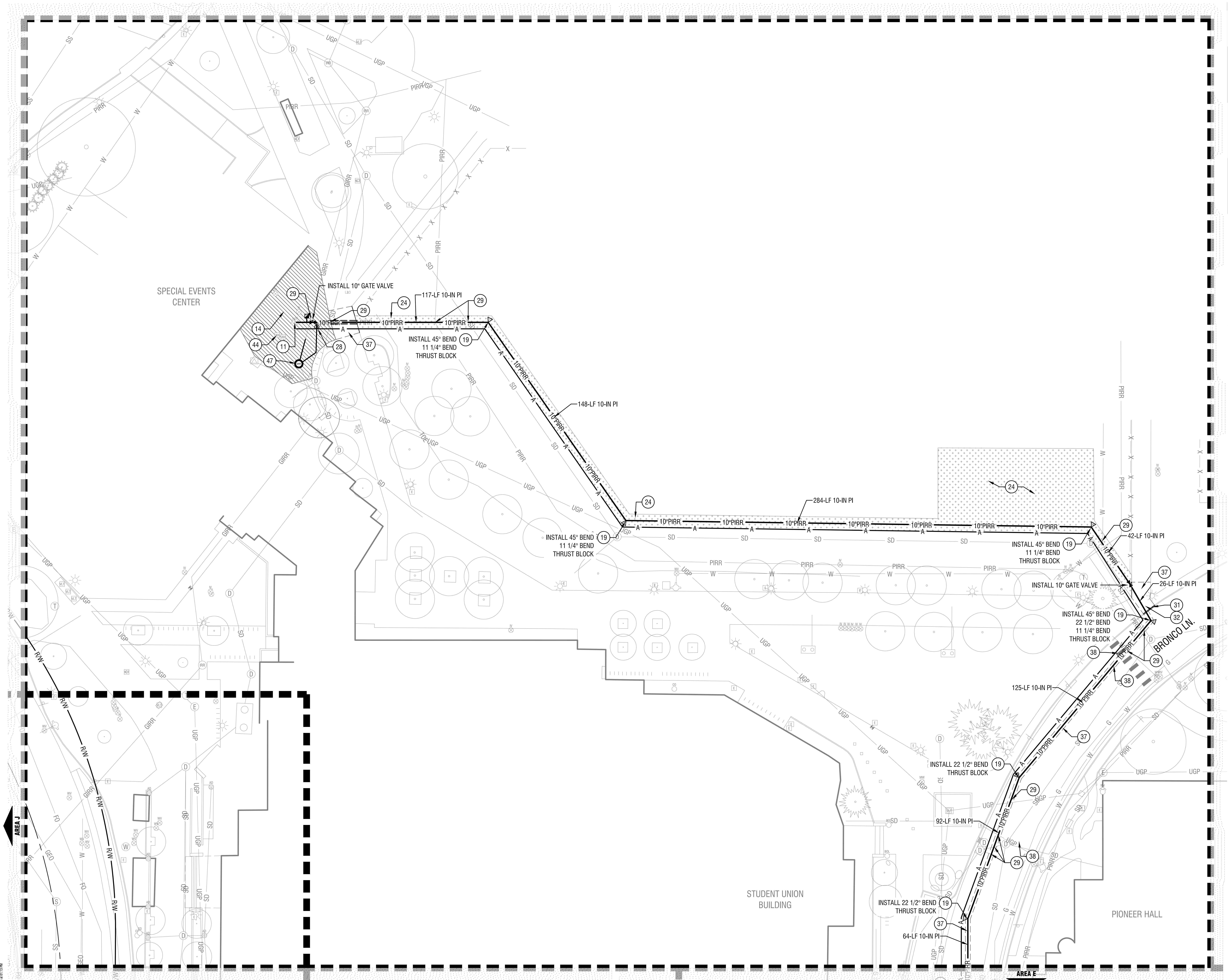
PROFESSIONAL ENGINEER — REGISTERED — 10961 — STATE OF IDAHO — JASON DENSMER

07/30/2024

Project No.: 118145
Date of Issuance: 04/3/2024
Project Milestone: Bid Set Documents

Pressurized Irrigation Area E

C2.03



Pressurized Irrigation-Area F

Horizontal Scale: 1" = 30'

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35. REPAIR VALLEY GUTTER, PER ISPWC ACHD SUPPLEMENTAL SD-708.
36. INSTALL NEW CURB PER DETAIL 4/C2.50.
37. STANDARD STREET CUTS AND SURFACE REPAIR PER ISPWC SD-303 ACHD SUPPLEMENTAL DRAWING.
38. REPAIR DAMAGE TO STREET CROSSING MARKINGS PER ISPWC SECTION 1104.
39. REPAIR FENCING TO ORIGINAL CONDITIONS.
40. UNDERGROUND POWER VAULT CROSSING.
41. REINSTALL CONCRETE UNIT PAVERS COORDINATE WITH DEMO SHEET FOR PAVER RE-USE. SEE DETAIL 5/C2.50.
42. INSTALL DOUBLE CHAINLINK GATE WITH LOCKABLE LATCH. SIZE 20-FT.
43. 5-INCH CONCRETE PAD FOR PUMP STATION SKID PER ISPWC DIVISION 700.
44. INSTALL NEW STRONG BOX SB-16SS PEDESTAL FOR EXISTING CONTROLLER IN THIS GENERAL LOCATION. COORDINATE WITH BSU MAINTENANCE STAFF FOR FINAL LOCATION. SEE ELECTRICAL AND DETAIL 7/C2.51.
45. NEW GRAVITY IRRIGATION STRUCTURE SEE SHEET C4.02.
46. INSTALL NEW ROOT BARRIER UB24 BY GRASSROOTS, BOTH SIDES OF STRIP.
47. GIRR IMPROVEMENTS PER C4.02.

THE LAND GROUP

SOUTH CAMPUS PRESSURIZED IRRIGATION
BOISE STATE UNIVERSITY

1910 UNIVERSITY DRIVE
BOISE, IDAHO 83725

Revisions		
1.	Addendum 2	04/23/2024
2.	Addendum 3	05/16/2024
3.	Addendum 4	05/20/2024
4.	Addendum 5	05/21/2024
5.	Addendum 6	05/29/2024
6.	ACHD Comments	06/20/2024
7.	Conformance Set	07/22/2024
8.	DD3 Comments	07/30/2024

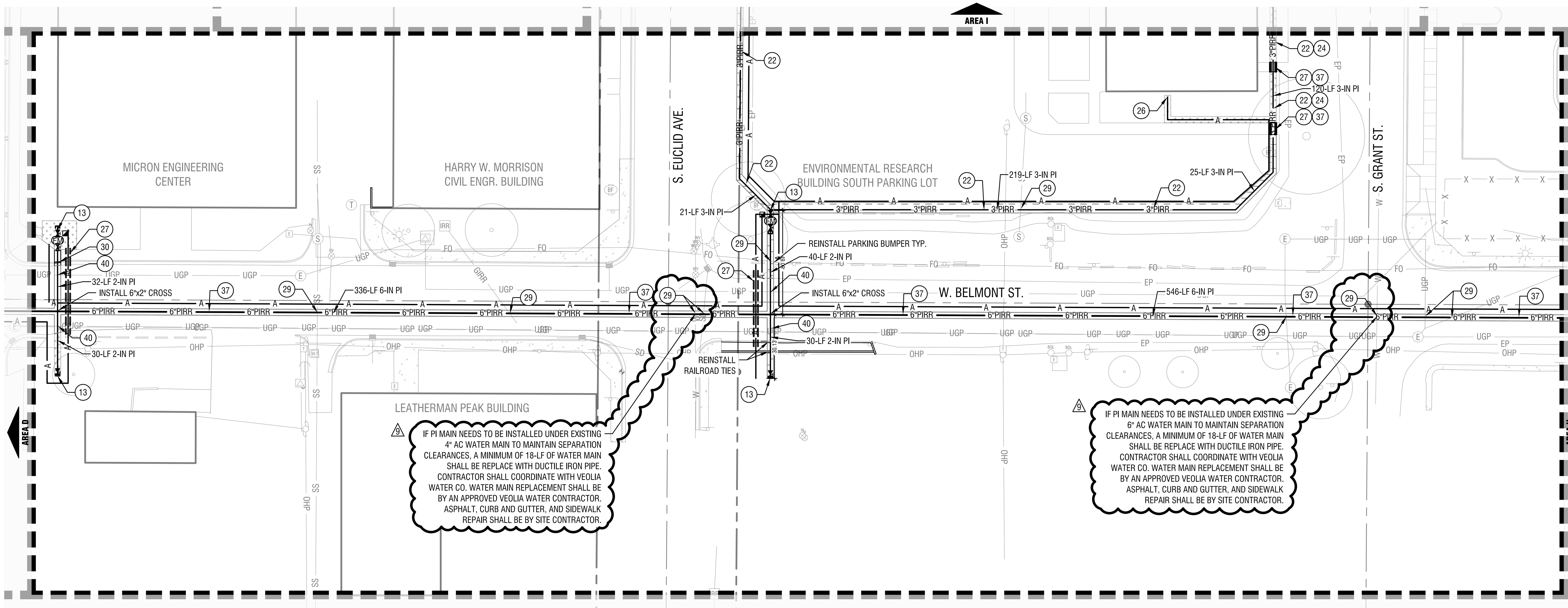
PROFESSIONAL ENGINEER REGISTERED 10961 STATE OF IDAHO JASON DENSMER

07/30/2024

Project No.:	118145
Date of Issuance:	04/3/2024
Project Milestone:	Bid Set Documents

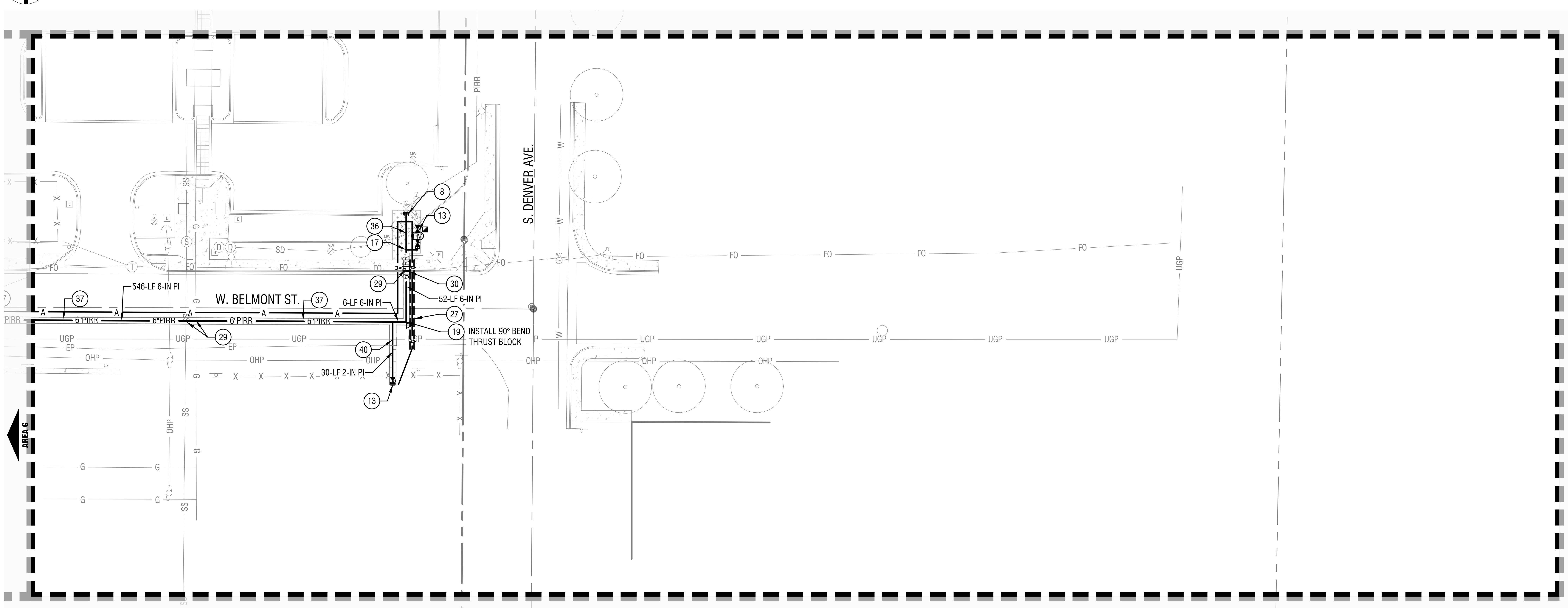
Pressurized Irrigation Area F

C2.04



Pressurized Irrigation-Area G

Horizontal Scale: 1" = 30'



Pressurized Irrigation-Area H

Horizontal Scale: 1" = 30'

Sheet Notes:

1. ALL WORK SHALL BE COORDINATED WITH BSU PERSONNEL PRIOR TO CONSTRUCTION.
2. KEYNOTES MAY NOT BE SHOWN ON EACH SHEET.
3. ALL PIPE SHALL BE EXCAVATED AND INSTALLED PER ISPWC SECTIONS 301, SECTION 305, AND DETAILS 1,2,3/C2.51.
4. ALL CONCRETE REPAIRS SHALL BE PER ISPWC DIVISION 700, SECTIONS TO MATCH ADJACENT EXISTING SECTIONS.
5. ALL TRENCHING SURFACE REPAIRED SHALL BE PER STANDARD STREET CUTS AND SURFACE REPAIR DETAIL ISPWC SD-303 ACHD SUPPLEMENTAL DRAWING.

Material Legend:

- 4-INCH DEPTH 3/4-IN MINUS ROAD MIX
- HYDRO-SEED PER SPECIFICATION SECTION 329100.
- LANDSCAPE REPAIR SEE LANDSCAPE SHEET L1.00.
- SOD REPAIR. INSTALLED PER SPECIFICATION SECTION 329200.

X	6' BLACK VINYL COATED CHAIN LINK FENCE WITH PRIVACY SLATS PER DETAIL 1/2.50 AND SPECIFICATION SECTION 323113.
2"PIRR	2-INCH MAINLINE - PVC SCH. 40
3"PIRR	3-INCH MAINLINE - PVC CLASS 200 SDR 21
6"PIRR	6-INCH MAINLINE - C900 CLASS 305 (DR 25)
10"PIRR	10-INCH MAINLINE - C900 CLASS 305 (DR 18)
12"PIRR	12-INCH MAINLINE - C900 CLASS 305 (DR 18)
14"PIRR	14-INCH MAINLINE - C900 CLASS 305 (DR 18)
14"PIRR HDPE	14-INCH MAINLINE - HDPE SEE KEYNOTE 2 FOR LOCATION.

- MAINLINE GATE VALVE SIZE PER PIPE SIZE. INSTALL PER ISPWC SD 406 AND 5/C2.51.
- MAINLINE DRAIN 2-INCH VALVE WITH 2-INCH PIPE SIZE. INSTALL PER DETAIL 6/C2.51.
- QUICK COUPLER VALVE RAINBIRD 44-RC. INSTALL PER DETAIL 4/C2.51.

UGP	UNDERGOUND POWER, SEE ELECTRICAL PLANS.
A	12-GAUGE TWO WIRE PATH PER SPECIFICATIONS. ALL WIRE SHALL BE SLEEVED INSIDE 2-INCH CONDUIT.

Keynotes:

(#) CALLOUT NUMBERS COORDINATED TO NUMBERED NOTES BELOW.

1. NEW PUMP STATION LOCATION SEE SHEET C5.00.
2. NEW HDPE MAINLINE TO BE SLEEVED INSIDE OF EXISTING 18-INCH RCP GRAVITY IRRIGATION PIPE. INSTALL SPACERS PER DETAIL 6/C2.50.
3. FIELD LOCATE EXISTING GIRR LINE, INTERCEPT AND CONTINUE NEW MAINLINE IN OPEN TRENCH AS INDICATED ON PLAN.
4. LANDSCAPE REPAIR AT EXISTING BUBBLER. AREA TO RECEIVE NEW SOD.
5. CAP EXISTING GRAVITY PIPE INVERT TO THE SOUTHWEST INSIDE OF STRUCTURE. ENSURE WATER FLOW CAN STILL CONTINUE THROUGH STRUCTURE FROM INVERT TO THE EAST TO INVERT OUT TO THE NORTH.
6. RETAIN AND PROTECT EXISTING GIRR.
7. NEW 20-FT ROLLING GATE. MATCH EXISTING CHAINLINK FENCE MATERIAL.
8. FIELD LOCATE EXISTING 6-INCH MAINLINE AND CONNECT NEW MAINLINE AS SHOWN ON PLANS.
9. INSTALL NEW MAINLINE AS SHOWN ON PLANS, FOLLOW EXISTING 6-INCH ROUTE COORDINATE WITH KEYNOTE 13 AND 36 ON SHEET C1.02.
10. CONNECT NEW 6-INCH MAINLINE TO EXISTING MAINLINE AND CONTINUE AS SHOWN ON PLANS.
11. CONNECT NEW 10-INCH MAINLINE TO EXISTING PUMP STATION MAINLINE IN THIS GENERAL LOCATION.
12. TRANSFORMER BY IPCO, SEE ELECTRICAL SHEETS.
13. INSTALL 3-INCH MAINLINE SERVICE, FIELD LOCATE EXISTING IRRIGATION AND CONNECT TO BLOCK. INSTALL FLOW METER PER DETAIL 5/C2.51.
14. EXISTING PUMP STATION 72-INCH WET WELL RIM: 2697.43 | SUMP: 2688: BREAK UP BOTTOM OF WET WELL. FILL WITH 3/4" CRUSHED AGGREGATE TO WITHIN 18-INCHES OF FINISHED GROUND. SEE LANDSCAPE SHEET L1.01.
15. EXISTING 72-INCH WET WELL RIM: 2701.80 | SUMP: 2685.80. BREAK UP BOTTOM OF WET WELL. FILL WITH 3/4" CRUSHED AGGREGATE TO 1-FT BELOW EXISTING LID. PRESERVE AND PROTECT EXISTING LID AND CONCRETE FLATWORK.
16. REMOVE CLEMENS SELF CLEANING SCREEN AND DISPOSE OF. PLUG 12-INCH PIPE EXTENDING TO EXISTING WET WELL. PROVIDE WATER TIGHT SEAL.
17. RE-INSTALL SIGN PER DETAIL 3/C2.50. COORDINATE WITH DEMOLITION PLANS.
18. INSTALL PUMP STATION WET WELL AND GRAVITY IRRIGATION STRUCTURES PER SHEETS C4.01 AND C4.50.
19. INSTALL THRUST BLOCK PER ISPWC SD-403.
20. CAP EXISTING IRRIGATION MAINLINE FROM OLD PUMPSTATION AND INSTALL DRAIN VALVE PER DETAIL 6/C2.51. CONTRACTOR TO BUST OUT BOTTOM OF WET WELL: 48-INCH RIM: 2700.18 | SUMP 2688.85. FILL WITH DRAIN ROCK. KNOCK 30" OFF TOP OF WET WELL AND CAP WITH TOPSOIL. SEE LANDSCAPE SHEET L1.02.
21. CAP EXISTING GRAVITY PIPE INVERT TO THE NORTHWEST INSIDE OF STRUCTURE. REMOVE AND DISPOSE OF CLEMENS SELF CLEANING SCREEN. ENSURE WATER FLOW CAN STILL CONTINUE THROUGH STRUCTURE FROM INVERT TO THE SOUTH TO INVERT OUT TO THE NORTHEAST.
22. INSTALL NEW 3-INCH SCH. 40 PVC SUB MAINLINE PER DETAIL 1/C2.51.
    22.1. CONNECT ALL EXISTING VALVES TO NEW LINE.
23. FIELD LOCATE EXISTING SUB MAINLINE AND CONNECT NEW 3-INCH SERVICE. ENSURE ALL CONNECTIONS ARE 100% WATER TIGHT.
24. REPAIR LANDSCAPE DISTURBANCE TO PRE-CONSTRUCTION CONDITION SOD TO SOD, LANDSCAPE MULCH TO MATCH EXISTING MULCH AND DEPTH.
25. ROUTE 2-WIRE PATH INSIDE OF BUILDING AND CONNECT TO SUB STATION. UTILIZE EXISTING WIRE SWEEPS. COORDINATE WITH OWNER FOR LOCATION.
26. FIELD LOCATE EXISTING CONTROLLER INSTALL BASELINE R-BOARD AND CONNECT ALL COMMON WIRES. CONNECT 2-WIRE PATH TO SUBSTATION CONTROLLER.
27. MAINLINE SLEEVING PER DETAIL 6/C2.50. WIRE SLEEVING PER 2/C2.51.
28. INSTALL 2-INCH DRAIN VALVE TO GRAVITY STRUCTURE PER DETAIL 6/C2.51.
29. UTILITY CROSSING. PROVIDE POTABLE/NON-POTABLE HORIZONTAL AND VERTICAL SEPARATION PER ISPWC SD-407. ADD FITTING(S) AS REQUIRED TO RAISE OR LOWER PIPE TO MEET SEPARATION REQUIREMENTS. SEE DETAIL 8/C2.50.
30. ISPWC SD-701 (ACHD SUPPLEMENTAL) 6" VERTICAL CURB AND GUTTER.
31. ISPWC SD-701A 6" VERTICAL CURB OR MATCH EXISTING.
32. REPAIR PEDESTRIAN RAMP, PER ISPWC SUPPLEMENTAL SD-712.
33. INSTALL DRIVEWAY APPROACH PER ISPWC ACHD SUPPLEMENTAL SD-710A.
34. EXISTING BENCH OR TRASH RECEPTACLE GREEN DOWN EXISTING CONCRETE PAD TO NEW CONCRETE.
35. REPAIR VALLEY GUTTER, PER ISPWC ACHD SUPPLEMENTAL SD-708.
36. INSTALL NEW CURB PER DETAIL 4/C2.50.
37. STANDARD STREET CUTS AND SURFACE REPAIR PER ISPWC SD-303 ACHD SUPPLEMENTAL DRAWING.
38. REPAIR DAMAGE TO STREET CROSSING MARKINGS PER ISPWC SECTION 1104.
39. REPAIR FENCING TO ORIGINAL CONDITIONS.
40. UNDERGROUND POWER VAULT CROSSING.
41. REINSTALL CONCRETE UNIT PAVERS COORDINATE WITH DEMO SHEET FOR PAVER RE-USE. SEE DETAIL 5/C2.50.
42. INSTALL DOUBLE CHAINLINK GATE WITH LOCKABLE LATCH. SIZE 20-FT.
43. 5-INCH CONCRETE PAD FOR PUMP STATION SKID PER ISPWC DIVISION 700.
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45. NEW GRAVITY IRRIGATION STRUCTURE SEE SHEET C4.02.
46. INSTALL NEW ROOT BARRIER UB24 BY GRASSROOTS, BOTH SIDES OF STRIP.
47. GIRR IMPROVEMENTS PER C4.02.

THE LAND GROUP

SOUTH CAMPUS PRESSURIZED IRRIGATION
BOISE STATE UNIVERSITY

1910 UNIVERSITY DRIVE
BOISE, IDAHO 83725

Revisions

1.	Addendum 2	04/23/2024
2.	Addendum 3	05/16/2024
3.	Addendum 4	05/20/2024
4.	Addendum 5	05/21/2024
5.	Addendum 6	05/29/2024
6.	ACHD Comments	06/20/2024
7.	Conformance Set	07/22/2024
8.	DD3 Comments	07/30/2024
9.	Veolia comments	08/29/2024

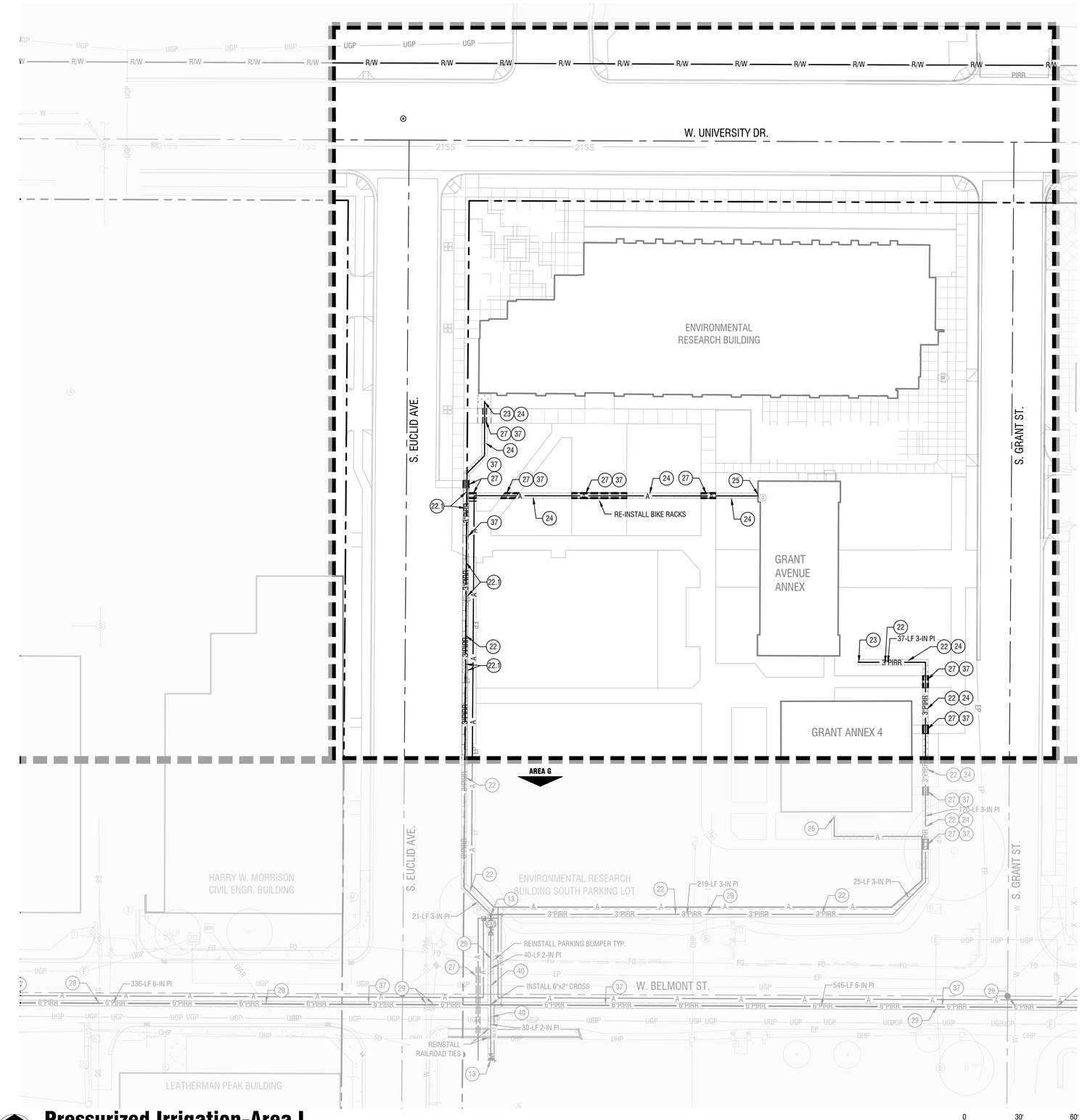
PROFESSIONAL ENGINEER REGISTERED 10961 STATE OF IDAHO JASON DENSMER

08/29/2024

Project No.:	118145
Date of Issuance:	04/3/2024
Project Milestone:	Bid Set Documents

Pressurized Irrigation Area G & H

C2.05



Pressurized Irrigation-Area I

Horizontal Scale: 1" = 30'

Sheet Notes:

1. ALL WORK SHALL BE COORDINATED WITH BSU PERSONNEL PRIOR TO CONSTRUCTION.
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3. ALL PIPE SHALL BE EXCAVATED AND INSTALLED PER ISPWC SECTIONS 301, SECTION 305, AND DETAILS 1,2,3/C2.51.
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5. ALL TRENCHING SURFACE REPAIRED SHALL BE PER STANDARD STREET CUTS AND SURFACE REPAIR DETAIL ISPWC SD-303 ACHD SUPPLEMENTAL DRAWING.

Material Legend:

- 4-INCH DEPTH 3/4-IN MINUS ROAD MIX
- HYDRO-SEED PER SPECIFICATION SECTION 329100.
- LANDSCAPE REPAIR SEE LANDSCAPE SHEET L1.00.
- SOD REPAIR. INSTALLED PER SPECIFICATION SECTION 329200.
- X — 6' BLACK VINYL COATED CHAIN LINK FENCE WITH PRIVACY SLATS PER DETAIL 1/2.50 AND SPECIFICATION SECTION 323113.
- 2"PIRR — 2-INCH MAINLINE - PVC SCH. 40
- 3"PIRR — 3-INCH MAINLINE - PVC CLASS 200 SDR 21
- 6"PIRR — 6-INCH MAINLINE - C900 CLASS 305 (DR 25)
- 10"PIRR — 10-INCH MAINLINE - C900 CLASS 305 (DR 18)
- 12"PIRR — 12-INCH MAINLINE - C900 CLASS 305 (DR 18)
- 14"PIRR — 14-INCH MAINLINE - C900 CLASS 305 (DR 18)
- 14"PIRR HDPE — 14-INCH MAINLINE - HDPE SEE KEYNOTE 2 FOR LOCATION.
- MAINLINE GATE VALVE SIZE PER PIPE SIZE. INSTALL PER ISPWC SD 406 AND 5/C2.51.
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- QUICK COUPLER VALVE RAINBIRD 44-RC. INSTALL PER DETAIL 4/C2.51.
- UGP — UNDERGOUND POWER, SEE ELECTRICAL PLANS.
- A — 12-GAUGE TWO WIRE PATH PER SPECIFICATIONS. ALL WIRE SHALL BE SLEEVED INSIDE 2-INCH CONDUIT.

Keynotes:

(#) CALLOUT NUMBERS COORDINATED TO NUMBERED NOTES BELOW.

1. NEW PUMP STATION LOCATION SEE SHEET C5.00.
2. NEW HDPE MAINLINE TO BE SLEEVED INSIDE OF EXISTING 18-INCH RCP GRAVITY IRRIGATION PIPE. INSTALL SPACERS PER DETAIL 6/C2.50.
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6. RETAIN AND PROTECT EXISTING GIRR.
7. NEW 20-FT ROLLING GATE. MATCH EXISTING CHAINLINK FENCE MATERIAL.
8. FIELD LOCATE EXISTING 6-INCH MAINLINE AND CONNECT NEW MAINLINE AS SHOWN ON PLANS.
9. INSTALL NEW MAINLINE AS SHOWN ON PLANS, FOLLOW EXISTING 6-INCH ROUTE COORDINATE WITH KEYNOTE 13 AND 36 ON SHEET C1.02.
10. CONNECT NEW 6-INCH MAINLINE TO EXISTING MAINLINE AND CONTINUE AS SHOWN ON PLANS.
11. CONNECT NEW 10-INCH MAINLINE TO EXISTING PUMP STATION MAINLINE IN THIS GENERAL LOCATION.
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13. INSTALL 3-INCH MAINLINE SERVICE, FIELD LOCATE EXISTING IRRIGATION AND CONNECT TO BLOCK. INSTALL FLOW METER PER DETAIL 5/C2.51.
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23. FIELD LOCATE EXISTING SUB MAINLINE AND CONNECT NEW 3-INCH SERVICE. ENSURE ALL CONNECTIONS ARE 100% WATER TIGHT.
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45. NEW GRAVITY IRRIGATION STRUCTURE SEE SHEET C4.02.
46. INSTALL NEW ROOT BARRIER UB24 BY GRASSROOTS, BOTH SIDES OF STRIP.
47. GIRR IMPROVEMENTS PER C4.02.

THE LAND GROUP

SOUTH CAMPUS PRESSURIZED IRRIGATION
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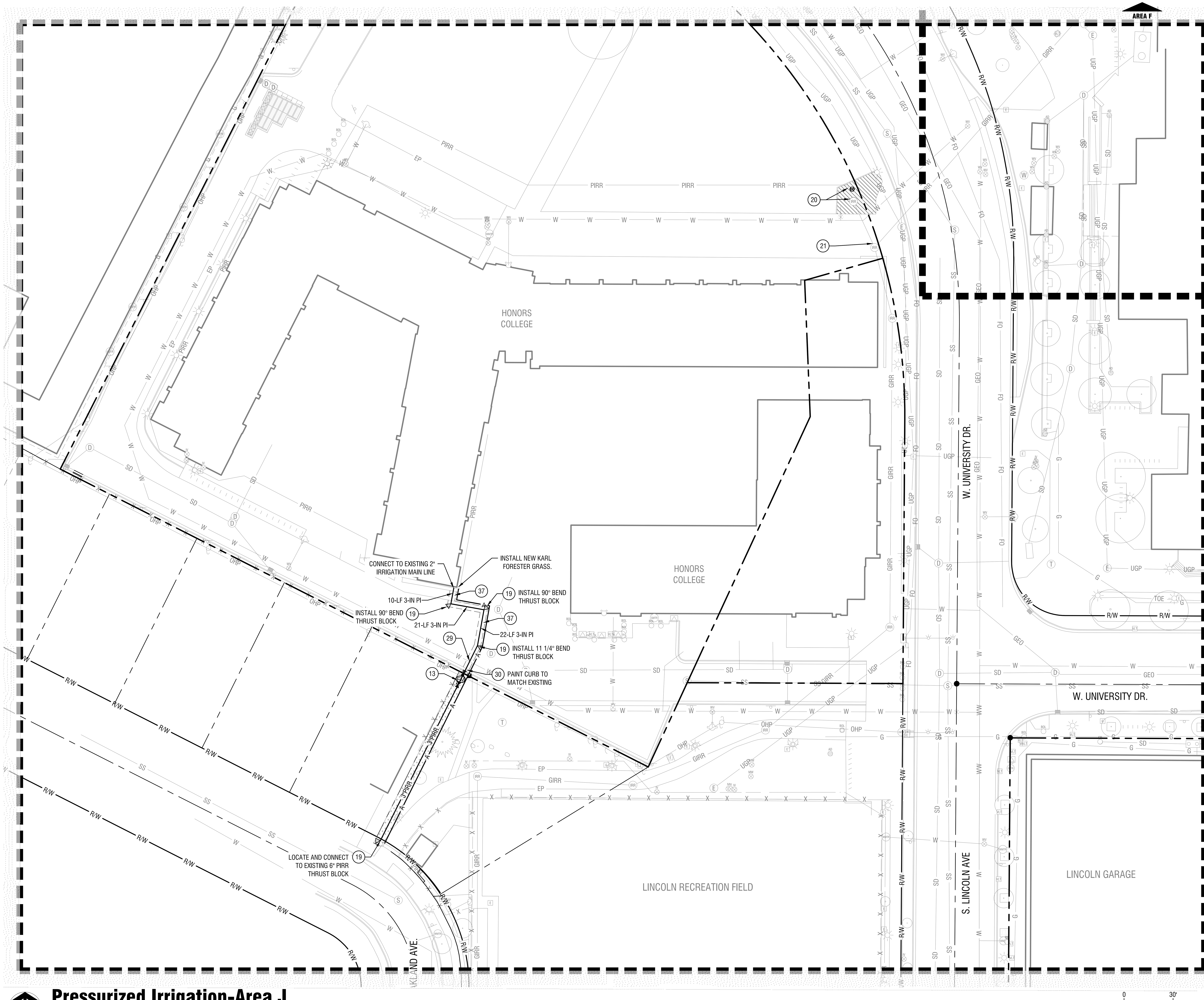
7.	Conformance Set	07/22/2024
8.	DD3 Comments	07/30/2024

PROFESSIONAL ENGINEER REGISTERED 10961 STATE OF IDAHO JASON DENSMER
07/30/2024

Project No.:	118145
Date of Issuance:	04/3/2024
Project Milestone:	Bid Set Documents

Pressurized Irrigation Area I

C2.06



Pressurized Irrigation-Area J

Horizontal Scale: 1" = 30'

Sheet Notes:

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Material Legend:

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UGP	UNDERGOUND POWER, SEE ELECTRICAL PLANS.
A	12-GAUGE TWO WIRE PATH PER SPECIFICATIONS. ALL WIRE SHALL BE SLEEVED INSIDE 2-INCH CONDUIT.

Keynotes:

\# CALLOUT NUMBERS COORDINATED TO NUMBERED NOTES BELOW.

1. NEW PUMP STATION LOCATION SEE SHEET C5.00.
2. NEW HDPE MAINLINE TO BE SLEEVED INSIDE OF EXISTING 18-INCH RCP GRAVITY IRRIGATION PIPE. INSTALL SPACERS PER DETAIL 6/C2.50.
3. FIELD LOCATE EXISTING GIRR LINE, INTERCEPT AND CONTINUE NEW MAINLINE IN OPEN TRENCH AS INDICATED ON PLAN.
4. LANDSCAPE REPAIR AT EXISTING BUBBLER. AREA TO RECEIVE NEW SOD.
5. CAP EXISTING GRAVITY PIPE INVERT TO THE SOUTHWEST INSIDE OF STRUCTURE. ENSURE WATER FLOW CAN STILL CONTINUE THROUGH STRUCTURE FROM INVERT TO THE EAST TO INVERT OUT TO THE NORTH.
6. RETAIN AND PROTECT EXISTING GIRR.
7. NEW 20-FT ROLLING GATE. MATCH EXISTING CHAINLINK FENCE MATERIAL.
8. FIELD LOCATE EXISTING 6-INCH MAINLINE AND CONNECT NEW MAINLINE AS SHOWN ON PLANS.
9. INSTALL NEW MAINLINE AS SHOWN ON PLANS, FOLLOW EXISTING 6-INCH ROUTE COORDINATE WITH KEYNOTE 13 AND 36 ON SHEET C1.02.
10. CONNECT NEW 6-INCH MAINLINE TO EXISTING MAINLINE AND CONTINUE AS SHOWN ON PLANS.
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15. EXISTING 72-INCH WET WELL RIM: 2701.80 | SUMP: 2685.80. BREAK UP BOTTOM OF WET WELL. FILL WITH 3/4" CRUSHED AGGREGATE TO 1-FT BELOW EXISTING LID. PRESERVE AND PROTECT EXISTING LID AND CONCRETE FLATWORK.
16. REMOVE CLEMENS SELF CLEANING SCREEN AND DISPOSE OF. PLUG 12-INCH PIPE EXTENDING TO EXISTING WET WELL. PROVIDE WATER TIGHT SEAL.
17. RE-INSTALL SIGN PER DETAIL 3/C2.50. COORDINATE WITH DEMOLITION PLANS.
18. INSTALL PUMP STATION WET WELL AND GRAVITY IRRIGATION STRUCTURES PER SHEETS C4.01 AND C4.50.
19. INSTALL THRUST BLOCK PER ISPWC SD-403.
20. CAP EXISTING IRRIGATION MAINLINE FROM OLD PUMPSTATION AND INSTALL DRAIN VALVE PER DETAIL 6/C2.51. CONTRACTOR TO BUST OUT BOTTOM OF WET WELL: 48-INCH RIM: 2700.18 | SUMP 2688.85. FILL WITH DRAIN ROCK. KNOCK 30" OFF TOP OF WET WELL AND CAP WITH TOPSOIL. SEE LANDSCAPE SHEET L1.02.
21. CAP EXISTING GRAVITY PIPE INVERT TO THE NORTHWEST INSIDE OF STRUCTURE. REMOVE AND DISPOSE OF CLEMENS SELF CLEANING SCREEN. ENSURE WATER FLOW CAN STILL CONTINUE THROUGH STRUCTURE FROM INVERT TO THE SOUTH TO INVERT OUT TO THE NORTHEAST.
22. INSTALL NEW 3-INCH SCH. 40 PVC SUB MAINLINE PER DETAIL 1/C2.51.
    - 22.1. CONNECT ALL EXISTING VALVES TO NEW LINE.
23. FIELD LOCATE EXISTING SUB MAINLINE AND CONNECT NEW 3-INCH SERVICE. ENSURE ALL CONNECTIONS ARE 100% WATER TIGHT.
24. REPAIR LANDSCAPE DISTURBANCE TO PRE-CONSTRUCTION CONDITION SOD TO SOD, LANDSCAPE MULCH TO MATCH EXISTING MULCH AND DEPTH.
25. ROUTE 2-WIRE PATH INSIDE OF BUILDING AND CONNECT TO SUB STATION. UTILIZE EXISTING WIRE SWEEPS. COORDINATE WITH OWNER FOR LOCATION.
26. FIELD LOCATE EXISTING CONTROLLER INSTALL BASELINE R-BOARD AND CONNECT ALL COMMON WIRES. CONNECT 2-WIRE PATH TO SUBSTATION CONTROLLER.
27. MAINLINE SLEEVING PER DETAIL 6/C2.50. WIRE SLEEVING PER 2/C2.51.
28. INSTALL 2-INCH DRAIN VALVE TO GRAVITY STRUCTURE PER DETAIL 6/C2.51.
29. UTILITY CROSSING. PROVIDE POTABLE/NON-POTABLE HORIZONTAL AND VERTICAL SEPARATION PER ISPWC SD-407. ADD FITTING(S) AS REQUIRED TO RAISE OR LOWER PIPE TO MEET SEPARATION REQUIREMENTS. SEE DETAIL 8/C2.50.
30. ISPWC SD-701 (ACHD SUPPLEMENTAL) 6" VERTICAL CURB AND GUTTER.
31. ISPWC SD-701A 6" VERTICAL CURB OR MATCH EXISTING.
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33. INSTALL DRIVEWAY APPROACH PER ISPWC ACHD SUPPLEMENTAL SD-710A.
34. EXISTING BENCH OR TRASH RECEPTACLE GREEN DOWN EXISTING CONCRETE PAD TO NEW CONCRETE.
35. REPAIR VALLEY GUTTER, PER ISPWC ACHD SUPPLEMENTAL SD-708.
36. INSTALL NEW CURB PER DETAIL 4/C2.50.
37. STANDARD STREET CUTS AND SURFACE REPAIR PER ISPWC SD-303 ACHD SUPPLEMENTAL DRAWING.
38. REPAIR DAMAGE TO STREET CROSSING MARKINGS PER ISPWC SECTION 1104.
39. REPAIR FENCING TO ORIGINAL CONDITIONS.
40. UNDERGROUND POWER VAULT CROSSING.
41. REINSTALL CONCRETE UNIT PAVERS COORDINATE WITH DEMO SHEET FOR PAVER RE-USE. SEE DETAIL 5/C2.50.
42. INSTALL DOUBLE CHAINLINK GATE WITH LOCKABLE LATCH. SIZE 20-FT.
43. 5-INCH CONCRETE PAD FOR PUMP STATION SKID PER ISPWC DIVISION 700.
44. INSTALL NEW STRONG BOX SB-16SS PEDESTAL FOR EXISTING CONTROLLER IN THIS GENERAL LOCATION. COORDINATE WITH BSU MAINTENANCE STAFF FOR FINAL LOCATION. SEE ELECTRICAL AND DETAIL 7/C2.51.
45. NEW GRAVITY IRRIGATION STRUCTURE SEE SHEET C4.02.
46. INSTALL NEW ROOT BARRIER UB24 BY GRASSROOTS, BOTH SIDES OF STRIP.
47. GIRR IMPROVEMENTS PER C4.02.

THE LAND GROUP

SOUTH CAMPUS PRESSURIZED IRRIGATION
BOISE STATE UNIVERSITY

1910 UNIVERSITY DRIVE
BOISE, IDAHO 83725

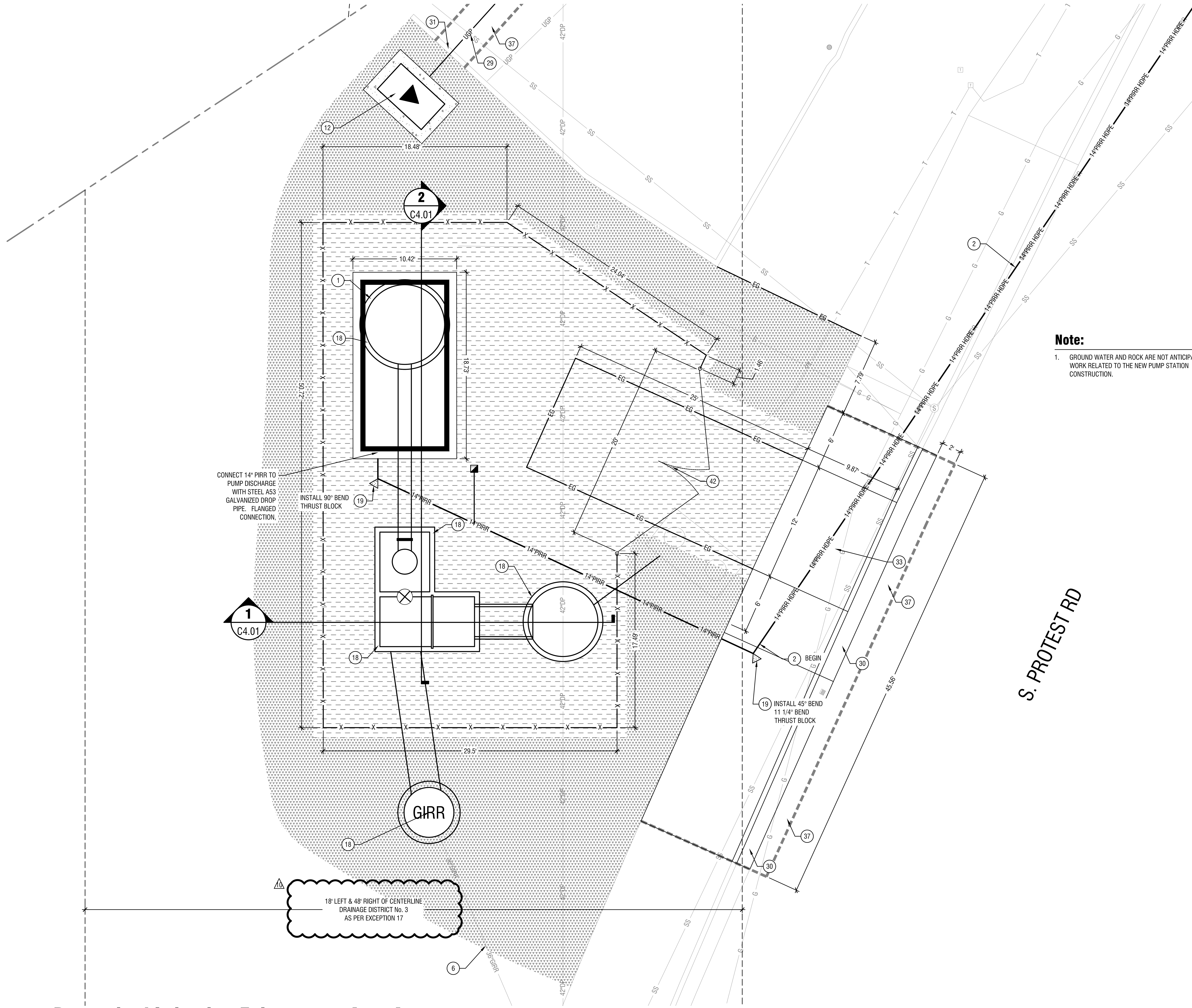
Revisions	
1. Addendum 2	04/23/2024
2. Addendum 3	05/16/2024
3. Addendum 4	05/20/2024
4. Addendum 5	05/21/2024
5. Addendum 6	05/29/2024
6. ACHD Comments	06/20/2024
7. Conformance Set	07/22/2024
8. DD3 Comments	07/30/2024

PROFESSIONAL ENGINEER REGISTERED 10961 STATE OF IDAHO JASON DENSMER

07/30/2024

Project No.:	118145
Date of Issuance:	04/3/2024
Project Milestone:	Bid Set Documents

Pressurized Irrigation Area J



Pressurized Irrigation-Enlargement Area A

Horizontal Scale: 1" = 5'

0 5' 10'

Note:

1. GROUND WATER AND ROCK ARE NOT ANTICIPATED FOR WORK RELATED TO THE NEW PUMP STATION CONSTRUCTION.

Sheet Notes:

1. ALL WORK SHALL BE COORDINATED WITH BSU PERSONNEL PRIOR TO CONSTRUCTION.
2. KEYNOTES MAY NOT BE SHOWN ON EACH SHEET.
3. ALL PIPE SHALL BE EXCAVATED AND INSTALLED PER ISPWC SECTIONS 301, SECTION 305, AND DETAILS 1,2,3/C2.51.
4. ALL CONCRETE REPAIRS SHALL BE PER ISPWC DIVISION 700, SECTIONS TO MATCH ADJACENT EXISTING SECTIONS.
5. ALL TRENCHING SURFACE REPAIRED SHALL BE PER STANDARD STREET CUTS AND SURFACE REPAIR DETAIL ISPWC SD-303 ACHD SUPPLEMENTAL DRAWING.

Material Legend:

4-INCH DEPTH 3/4-IN MINUS ROAD MIX

HYDRO-SEED PER SPECIFICATION SECTION 329100.

——X—— 6' BLACK VINYL COATED CHAIN LINK FENCE WITH PRIVACY SLATS PER DETAIL 1/2.50 AND SPECIFICATION SECTION 323113.

2"PIRR	2-INCH MAINLINE - PVC SCH. 40
3"PIRR	3-INCH MAINLINE - PVC CLASS 200 SDR 21
6"PIRR	6-INCH MAINLINE - C900 CLASS 305 (DR 25)
10"PIRR	10-INCH MAINLINE - C900 CLASS 305 (DR 18)
12"PIRR	12-INCH MAINLINE - C900 CLASS 305 (DR 18)
14"PIRR	14-INCH MAINLINE - C900 CLASS 305 (DR 18)
14"PIRR HDPE	14-INCH MAINLINE - HDPE SEE KEYNOTE 2 FOR LOCATION.

MAINLINE GATE VALVE SIZE PER PIPE SIZE. INSTALL PER ISPWC SD 406 AND 5/C2.51.

MAINLINE DRAIN 2-INCH VALVE WITH 2-INCH PIPE SIZE. INSTALL PER DETAIL 6/C2.51.

QUICK COUPLER VALVE RAINBIRD 44-RC. INSTALL PER DETAIL 4/C2.51.

——UGP—— UNDERGOUND POWER, SEE ELECTRICAL PLANS.

——A—— 12-GAUGE TWO WIRE PATH PER SPECIFICATIONS. ALL WIRE SHALL BE SLEEVED INSIDE 2-INCH CONDUIT.

Keynotes:

(#) CALLOUT NUMBERS COORDINATED TO NUMBERED NOTES BELOW.

1. NEW PUMP STATION LOCATION SEE SHEET C5.00.
2. NEW HDPE MAINLINE TO BE SLEEVED INSIDE OF EXISTING 18-INCH RCP GRAVITY IRRIGATION PIPE. INSTALL SPACERS PER DETAIL 6/C2.50.
3. FIELD LOCATE EXISTING GIRR LINE, INTERCEPT AND CONTINUE NEW MAINLINE IN OPEN TRENCH AS INDICATED ON PLAN.
4. LANDSCAPE REPAIR AT EXISTING BUBBLER. AREA TO RECEIVE NEW SOD.
5. CAP EXISTING GRAVITY PIPE INVERT TO THE SOUTHWEST INSIDE OF STRUCTURE. ENSURE WATER FLOW CAN STILL CONTINUE THROUGH STRUCTURE FROM INVERT TO THE EAST TO INVERT OUT TO THE NORTH.
6. RETAIN AND PROTECT EXISTING GIRR.
7. NEW 20-FT ROLLING GATE. MATCH EXISTING CHAINLINK FENCE MATERIAL.
8. FIELD LOCATE EXISTING 6-INCH MAINLINE AND CONNECT NEW MAINLINE AS SHOWN ON PLANS.
9. INSTALL NEW MAINLINE AS SHOWN ON PLANS, FOLLOW EXISTING 6-INCH ROUTE COORDINATE WITH KEYNOTE 13 AND 36 ON SHEET C1.02.
10. CONNECT NEW 6-INCH MAINLINE TO EXISTING MAINLINE AND CONTINUE AS SHOWN ON PLANS.
11. CONNECT NEW 10-INCH MAINLINE TO EXISTING PUMP STATION MAINLINE IN THIS GENERAL LOCATION.
12. TRANSFORMER BY IPCO, SEE ELECTRICAL SHEETS.
13. INSTALL 3-INCH MAINLINE SERVICE, FIELD LOCATE EXISTING IRRIGATION AND CONNECT TO BLOCK. INSTALL FLOW METER PER DETAIL 5/C2.51.
14. EXISTING PUMP STATION 72-INCH WET WELL RIM: 2697.43 | SUMP: 2688: BREAK UP BOTTOM OF WET WELL. FILL WITH 3/4" CRUSHED AGGREGATE TO WITHIN 18-INCHES OF FINISHED GROUND. SEE LANDSCAPE SHEET L1.01.
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45. NEW GRAVITY IRRIGATION STRUCTURE SEE SHEET C4.02.
46. INSTALL NEW ROOT BARRIER UB24 BY GRASSROOTS, BOTH SIDES OF STRIP.
47. GIRR IMPROVEMENTS PER C4.02.

THE LAND GROUP

SOUTH CAMPUS PRESSURIZED IRRIGATION BOISE STATE UNIVERSITY

1910 UNIVERSITY DRIVE
BOISE, IDAHO 83725

Revisions	
1. Addendum 2	04/23/2024
2. Addendum 3	05/16/2024
3. Addendum 4	05/20/2024
4. Addendum 5	05/21/2024
5. Addendum 6	05/29/2024
6. ACHD Comments	06/20/2024
7. Conformance Set	07/22/2024
8. DD3 Comments	07/30/2024
9. Veolia comments	08/29/2024
10. DD3 Comments	09/03/2024

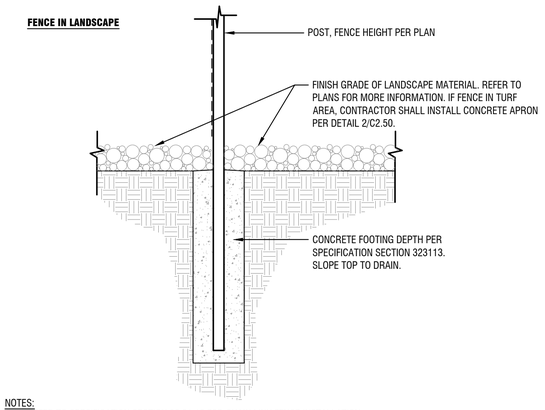
PROFESSIONAL ENGINEER REGISTERED 10961 STATE OF IDAHO JASON DENSMER

09/03/2024

Project No.:	118145
Date of Issuance:	04/3/2024
Project Milestone:	Bid Set Documents

Pressurized Irrigation Enlargement Area A

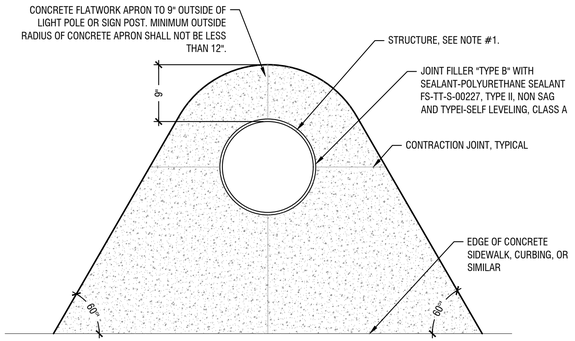
C2.08



NOTES:
1. REFER TO SPECIFICATION SECTION 32 31 13 FOR CHAIN LINK FENCE INSTALLATION.
2. CONTRACTION JOINTS AT EACH POST LOCATION.
3. WHEN FENCE IN CONCRETE ABUTS CURB, CENTER OF FENCE POST SHALL BE 6" OFF TOP BACK OF CURB.

1 Chain Link Fence Footings

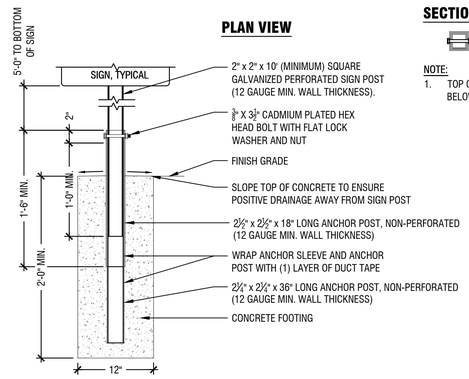
Scale: 1" = 1'

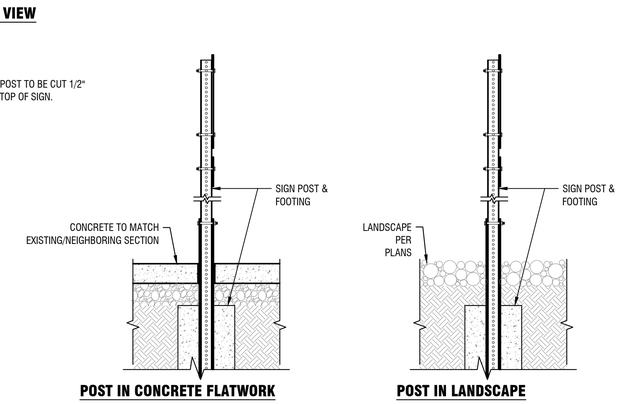


NOTES:
1. CONCRETE APRONS SHALL BE LOCATED AT ALL SIGNS, UTILITY STRUCTURES (HYDRANTS, FDC'S, ETC), BOLLARDS, AND LIGHT POLES LOCATED IN TURF AREAS WHERE SHOWN OR NOT SHOWN.
2. CONCRETE SECTION SHALL BE AS PER STANDARD CONCRETE FLATWORK DETAIL.
3. WHERE APRON IS LOCATED WITHIN 24" OF A HARDSCAPE, CONTRACTOR SHALL EXTEND APRON TO EDGE OF THE IMPROVEMENT. IF APRON IS LOCATED FURTHER THAN 24" FROM HARDSCAPE THEN A CONTINUOUS 9" OFFSET RADIUS SHALL BE HELD FOR ENTIRE CIRCUMFERENCE OF OBJECT.

2 Concrete Apron

Scale: 1" = 1'

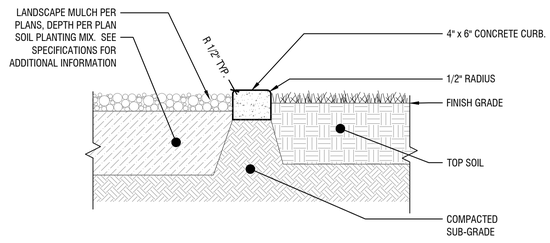




NOTES:
1. SIGN POSTS IN LANDSCAPE AREAS TO BE SET BACK OF CURB AND/OR BACK OF SIDEWALK. SIGN POSTS IN TURF AREAS SHALL RECEIVE CONCRETE APRON PER DETAIL **2/C2.51**.
2. TOP OF FOOTING FINISH TO MATCH ADJACENT CONCRETE FLATWORK FINISH WHERE APPLICABLE.

3 Sign Post And Footing

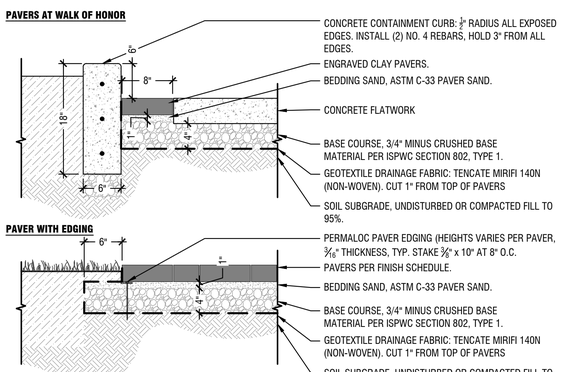
Scale: NTS



NOTES:
1. MOW CURB SHALL BE INSTALLED WITH SMOOTH AND UNIFORM VERTICAL AND HORIZONTAL MOVEMENTS.
2. WERE CURB IS ADJUCENT TO HARDSCAPE, TOP OF CURB SHALL BE FLUSH. CHAMFERED ENDS ARE NOT ALLOWED.

4 6" Mow Curb

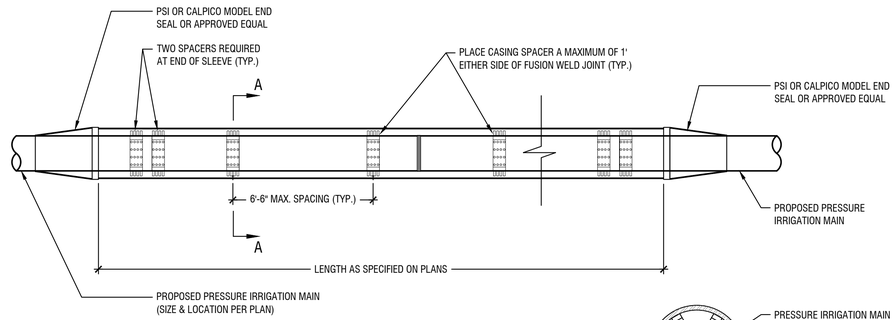
Scale: 1" = 1'



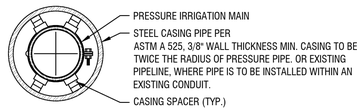
NOTES:
1. INSTALL A 7 FT X 7 FT MOCK UP AREA. THIS AREA WILL BE USED AS THE STANDARD BY WHICH THE WORK WILL BE JUDGED. SUBJECT TO ACCEPTANCE BY OWNER, MOCK-UP MAY BE RETAINED AS PART OF FINISHED WORK.
2. DO NOT INSTALL AGGREGATE, OR PAVERS DURING HEAVY RAIN OR SNOWFALL, OVER FROZEN BASE MATERIALS OR SATURATED SAND/AGGREGATE.
3. CUT UNIT PAVERS WITH MOTOR-DRIVEN MASONRY SAW EQUIPMENT TO PROVIDE CLEAN, SHARP, UNCHIPPED EDGES. CUT UNITS TO PROVIDE PATTERN INDICATED AND TO FIT ADJOINING WORK NEATLY. USE FULL UNITS WITHOUT CUTTING WHERE POSSIBLE. HAMMER CUTTING IS NOT ACCEPTABLE.
4. INSTALL PERMALOC CLEANLINE PAVER EDGE WHERE PAVERS DO NOT ABUT HARDSCAPE OR CURBING. INSTALL PER PAVER AND PERMALOC INSTALLATION GUIDES.
5. GEOTEXTILE DRAINAGE FABRIC SHALL HAVE 12" OVERLAP AT ALL SEAMS.

5 Paver Section

Scale: 1" = 1'



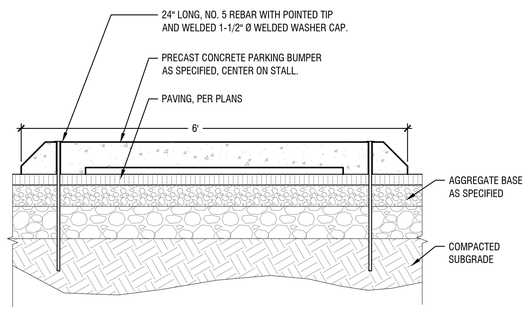
NOTE:
1. SPACERS SHALL BE PIPELINE SEAL AND INSULATED, INC. (PSI) METAL CASING SPACERS, CALPICO MODEL PX SPACERS OR APPROVED EQUAL. INSTALLATION SHALL BE PER MANUFACTURER'S RECOMMENDATIONS.



Section A-A

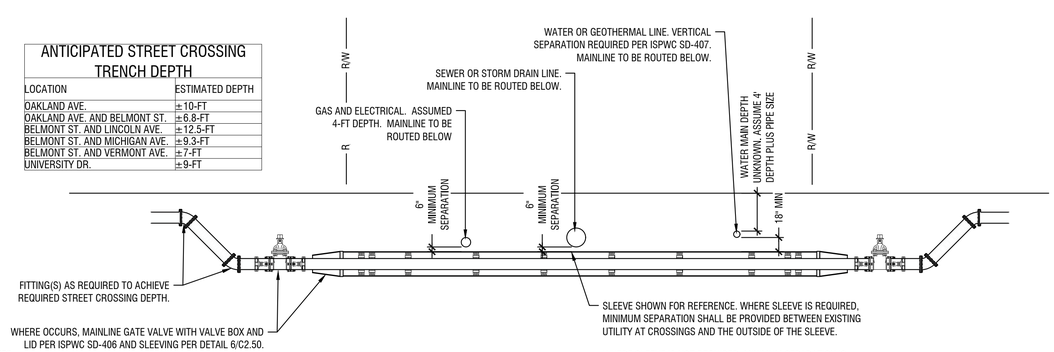
6 Mainline Pipe Sleeving

Scale: NTS



7 Concrete Parking Bumper

Scale: NTS



NOTES:
1. UTILITY CROSSINGS IN THIS DETAIL ARE CONCEPTUAL AND SHOWN FOR REFERENCE. ACTUAL UTILITY DEPTHS AT EACH CROSSING LOCATION SHALL BE CONFIRMED IN THE FIELD AND THE MAINLINE ELEVATION COORDINATED SO THAT FINAL ROUTING COMPLIES WITH THE SEPARATION REQUIREMENTS OF ISPWC SD-407.

8 Typical Street Crossing Section

Scale: NTS

REVISE DETAIL LAYOUT ON THIS SHEET TO MAKE ROOM FOR DETAIL 8

THE LAND GROUP

SOUTH CAMPUS PRESSURIZED IRRIGATION
BOISE STATE UNIVERSITY

1910 UNIVERSITY DRIVE
BOISE, IDAHO 83725

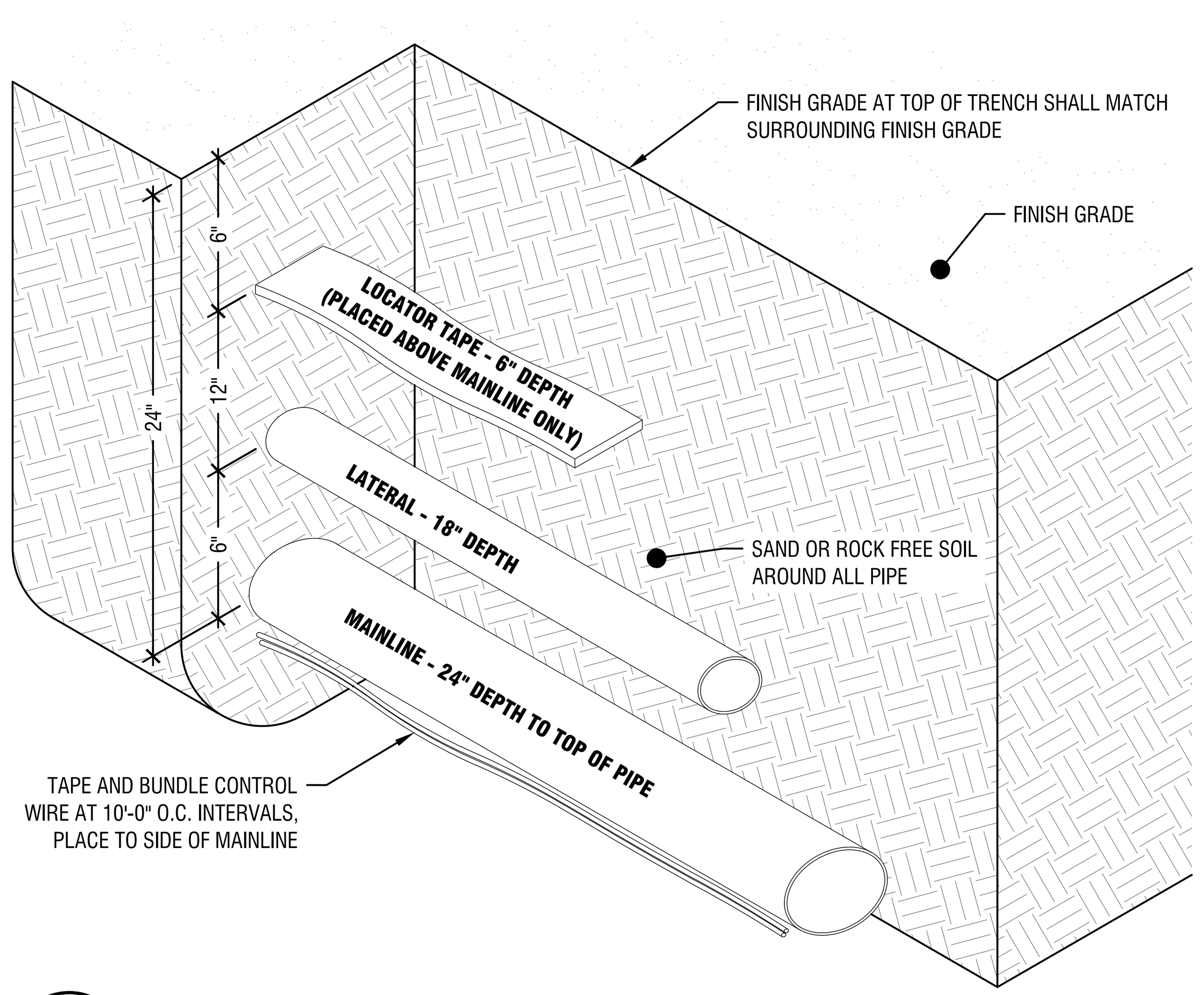
Revisions		
1.	Addendum 2	04/23/2024
2.	Addendum 3	05/16/2024
3.	Addendum 4	05/20/2024
4.	Addendum 5	05/21/2024
5.	Addendum 6	05/29/2024
6.	ACHD Comments	06/20/2024
7.	Conformance Set	07/22/2024
8.	DD3 Comments	07/30/2024

PROFESSIONAL ENGINEER REGISTERED Jason Densmer 10961 STATE OF IDAHO JASON DENSMER
07/30/2024

Project No.:	118145
Date of Issuance:	04/3/2024
Project Milestone:	Bid Set Documents

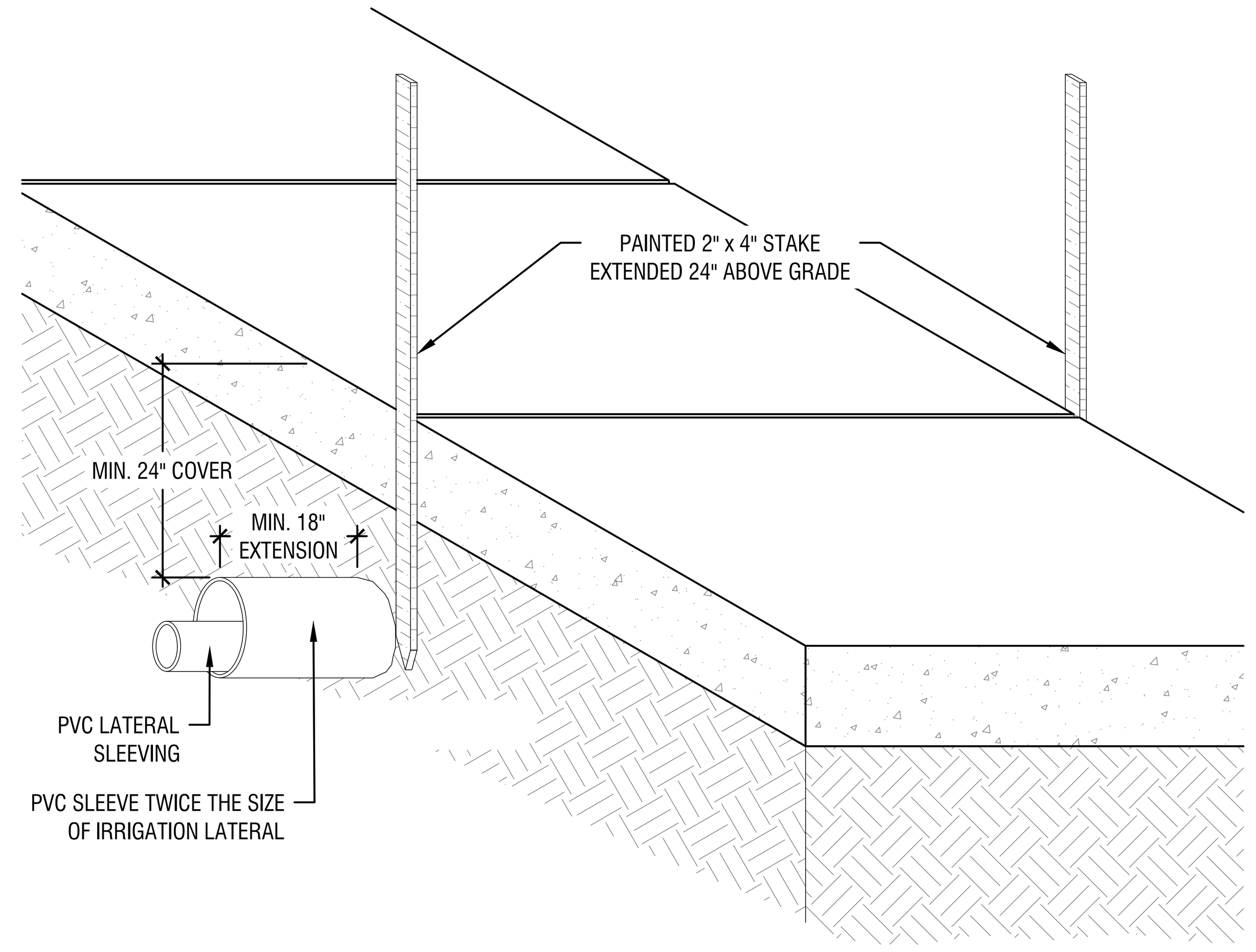
Details

C2.50



1 TRENCH SECTION

SCALE: NTS



2 SLEEVING SECTION

SCALE: NTS

DISTANCE CHART

REFER TO THE FOLLOWING TABLE THAT LISTS THE LENGTH (IN FEET) FOR EACH SIZE/TYPE FITTING WITHIN WHICH ALL JOINTS JUST BE RESTRAINED. ALL FITTINGS AND JOINT RESTRAINTS SHALL BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS & SPECIFICATIONS.
AS AN EXAMPLE: IF YOU ARE INSTALLING A 3" MAINLINE WITH A DIRECTIONAL CHANGE OF 90°, REFER TO CHART UNDER PIPE SIZE TO 3" AND UNDER BENDS 90 YOU WILL SEE THE DISTANCE OF 11'. IF THERE IS ANY JOINT (VALVE, BELL, ETC.) YOU MUST INSTALL A JOINT RESTRAINT WITHIN 11' OF THE 90° MAINLINE DIRECTIONAL CHANGE.

PIPE SIZE	BENDS				REDUCERS				
	11°	22°	45°	90°	1 STEP	2 STEP	3 STEP	DEAD END	GATE VALVE
2"	1'	1'	2'	6'	-	-	-	19'	10'
2.5"	1'	2'	4'	9'	4'	-	-	23'	12'
3"	2'	3'	6'	11'	8'	10'	-	30'	15'
4"	2'	4'	9'	20'	14'	20'	31'	45'	23'
6"	3'	6'	13'	29'	30'	40'	53'	63'	31'
8"	4'	8'	15'	38'	33'	55'	63'	75'	38'
10"	5'	9'	19'	45'	36'	56'	75'	96'	48'
12"	5'	10'	21'	53'	38'	60'	83'	112'	56'
14"	6'	11'	24'	58'	40'	62'	86'	130'	62'

INSTALLATION CHART

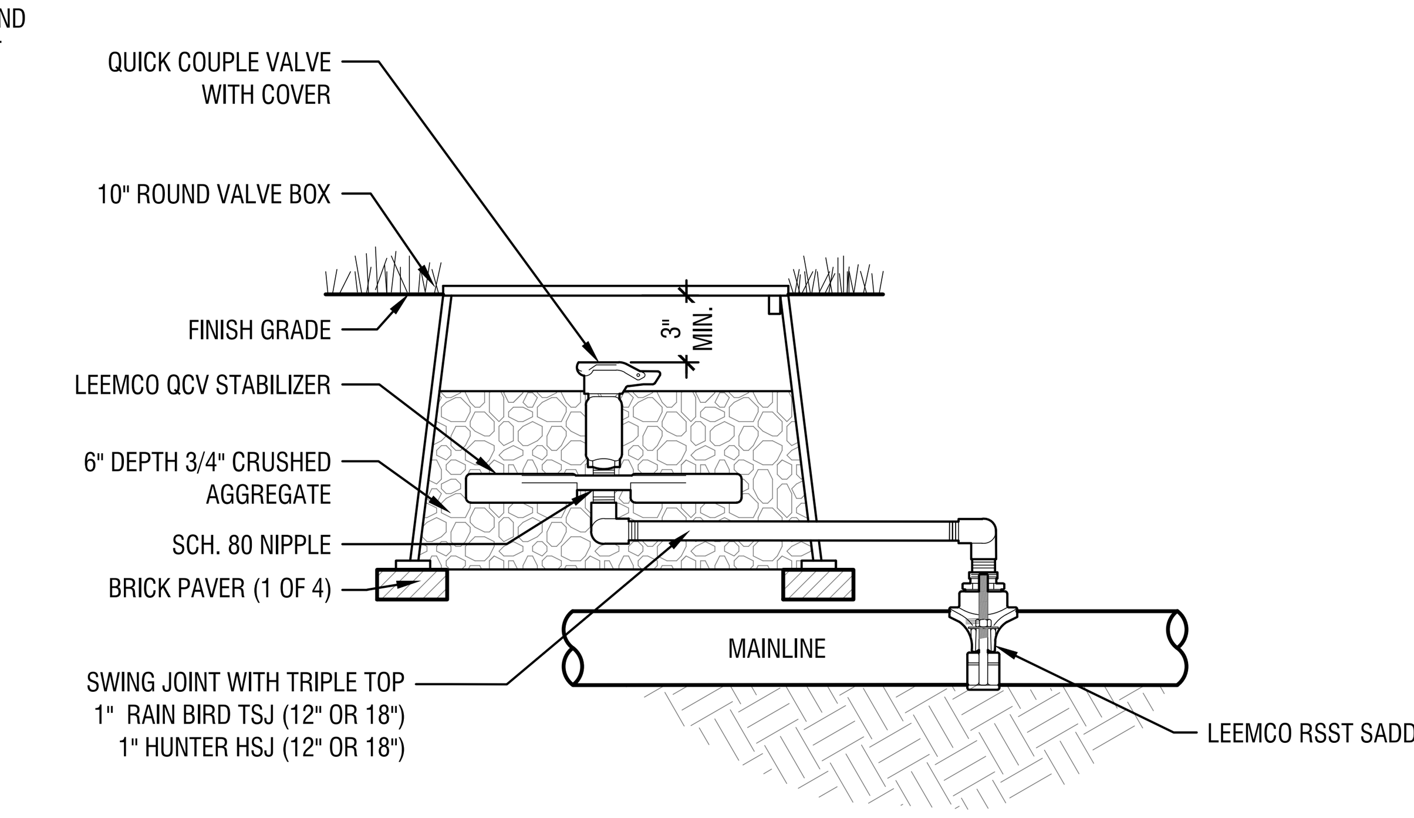
REFER TO THE TABLE TO THE RIGHT WHICH LISTS THE NUMBER OF BOLTS, SIZE, AND TORQUE FOR EACH BOLT IN REFERENCE TO THE SIZE OF PIPE WHICH IS BEING RESTRAINED.

AS AN EXAMPLE, IF YOU HAVE A 3" PIPE, YOU WILL NEED 2 BOLTS THAT ARE 3/8 X 2.5" AND TIGHTEN THEM WITH A TORQUE WRENCH TO 20 FT-LBS.

PIPE SIZE	NO. BOLTS	BOLT SIZE	TORQUE FT-LBS
2"	2	3/8" x 2-1/2"	20
2.5"	2	3/8" x 2-1/2"	20
3"	2	3/8" x 2-1/2"	20
4"	2	1/2" x 3"	50
6"	2	1/2" x 3-1/2"	50
8"	4	1/2" x 4"	50
10"	4	5/8" x 5-1/2"	100
12"	4	5/8" x 5-1/2"	100
14"	4	5/8" x 5-1/2"	100

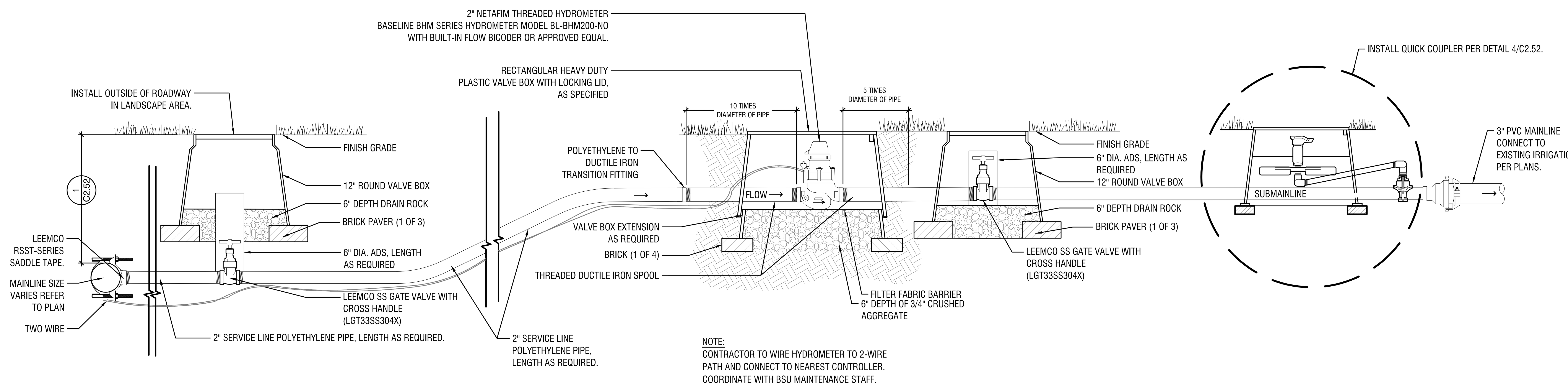
3 JOINT RESTRAINT CHART

SCALE: NTS



4 QUICK COUPLER VALVE

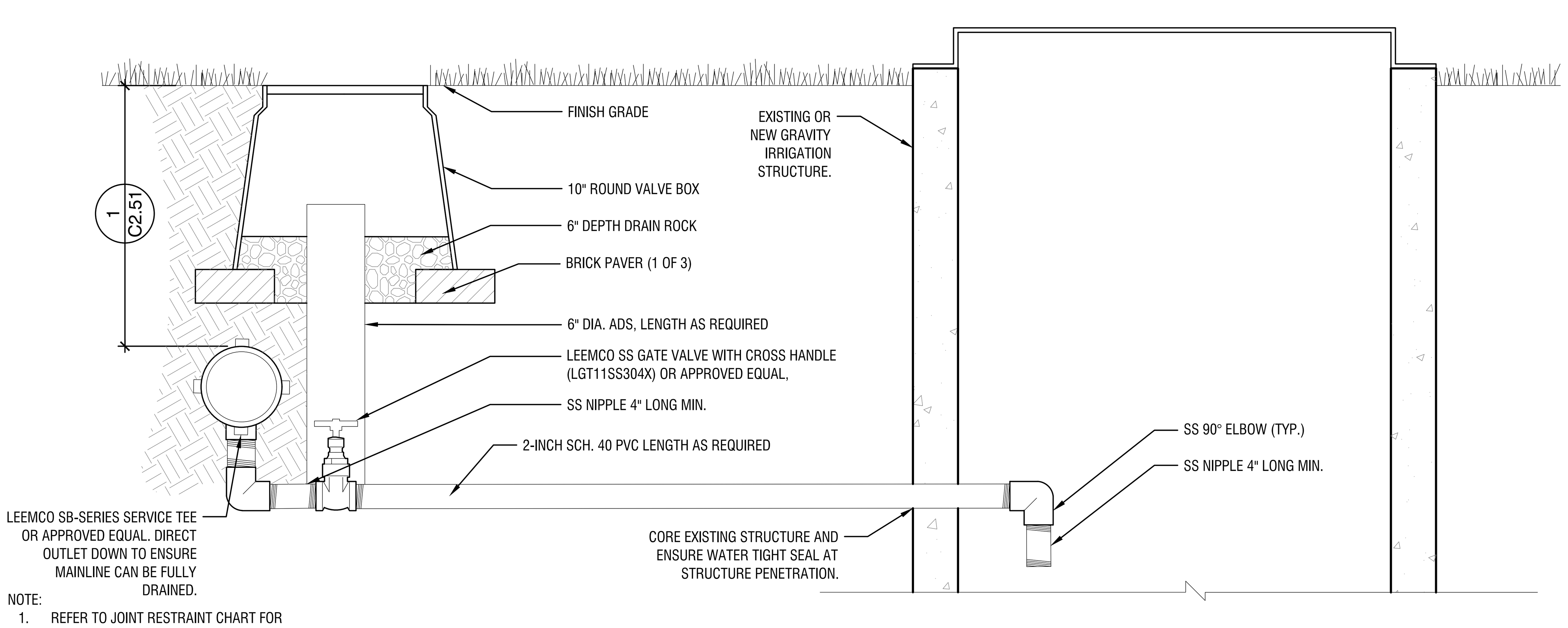
SCALE: NTS



NOTE:
CONTRACTOR TO WIRE HYDROMETER TO 2-WIRE PATH AND CONNECT TO NEAREST CONTROLLER. COORDINATE WITH BSU MAINTENANCE STAFF.

5 SUB-MAINLINE CONNECTION WITH 2-INCH FLOW METER

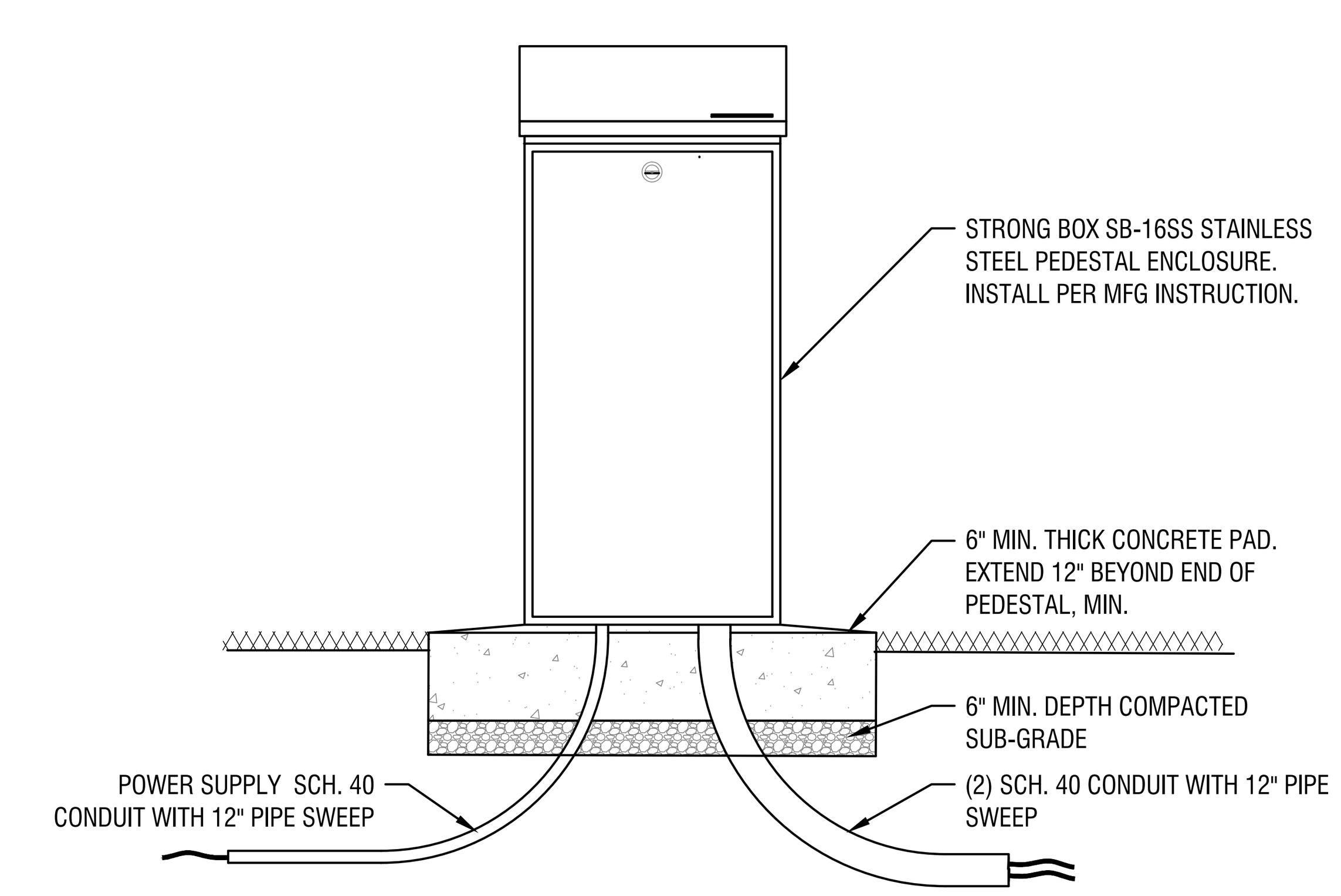
SCALE: NTS



NOTE:
1. REFER TO JOINT RESTRAINT CHART FOR MORE INFORMATION, DETAIL 3/C2.51

6 MANUAL DRAIN VALVE

SCALE: NTS



NOTES:
1. IRRIGATION CONTRACTOR SHALL GROUND PEDESTAL, CONTROLLER AND WIRE PATH AS SPECIFIED PER MANUFACTURES RECOMMENDATIONS.

7 IRRIGATION CONTROLLER - STRONG BOX PEDESTAL

SCALE: NTS

THE LAND GROUP

SOUTH CAMPUS PRESSURIZED IRRIGATION
BOISE STATE UNIVERSITY

1910 UNIVERSITY DRIVE
BOISE, IDAHO 83725

Revisions		
1.	Addendum 2	04/23/2024
2.	Addendum 3	05/16/2024
3.	Addendum 4	05/20/2024
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5.	Addendum 6	05/29/2024
6.	ACHD Comments	06/20/2024
7.	Conformance Set	07/22/2024
8.	DD3 Comments	07/30/2024

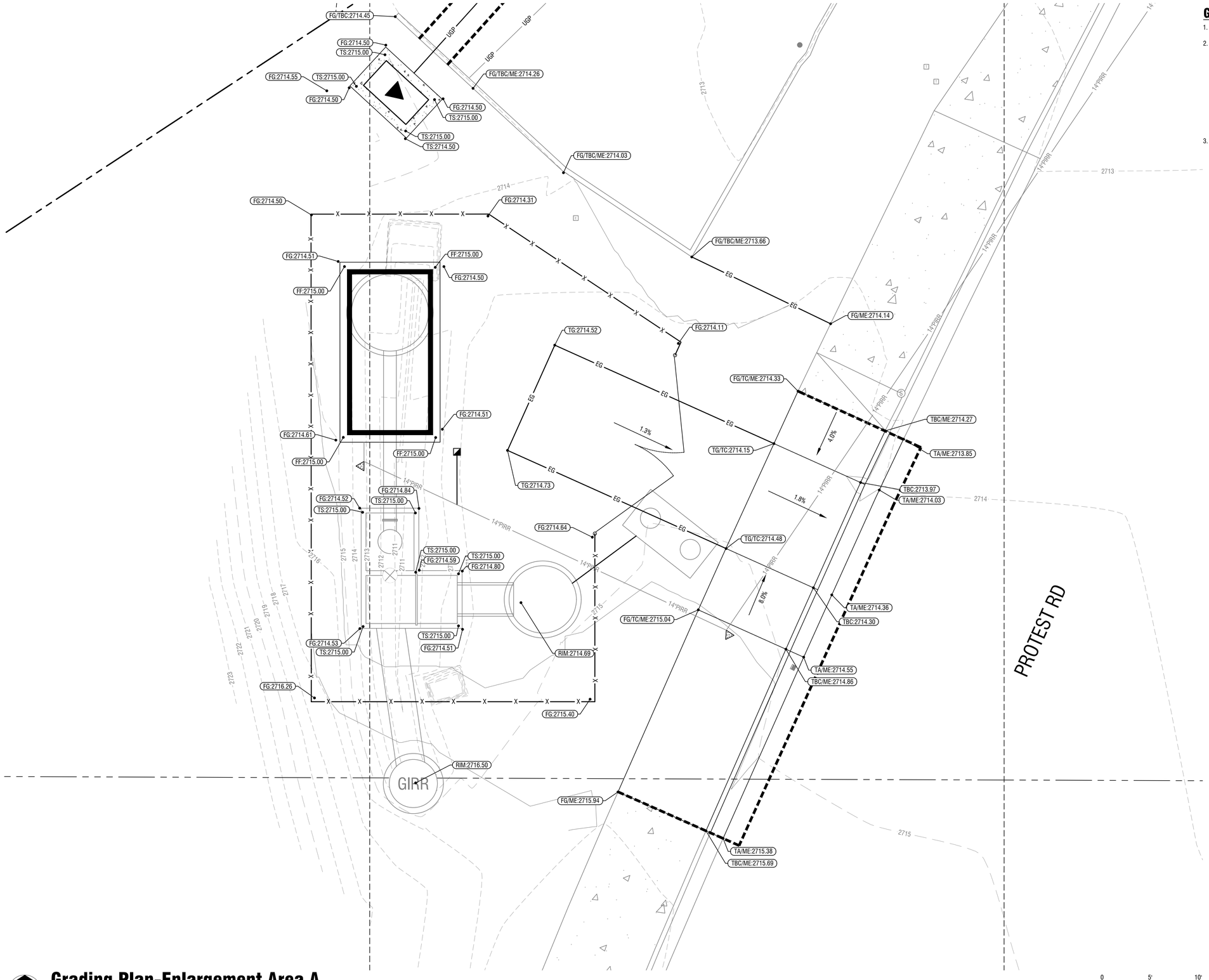
PROFESSIONAL ENGINEER REGISTERED 10961 STATE OF IDAHO JASON DENSMER

07/30/2024

Project No.: 118145
Date of Issuance: 04/3/2024
Project Milestone: Bid Set Documents

Details

C2.51



Grading Notes:

1. EXISTING AND PROPOSED CONTOURS ARE AT 1-FT INTERVALS
2. SPOT ELEVATIONS INDICATE TOP OF FINISH GRADE SURFACE AT ASPHALT SURFACE OR OTHER SURFACE AS INDICATED BY THE FOLLOWING ABBREVIATIONS:
   - FG - FINISH GRADE ELEVATION
   - FF - FINISHED FLOOR
   - LIP - LIP OF GUTTER
   - ME - MATCH EXISTING ELEVATION
   - RIM - RIM OF STRUCTURE AT LIP OF GUTTER OR FLUSH WITH ASPHALT
   - TBC - TOP BACK OF CURB
   - TC - TOP OF CONCRETE
   - TG - TOP OF GRAVEL
   - TS - TOP OF STRUCTURE
3. LONGITUDINAL CROSS SLOPE OF ALL SIDEWALKS SHALL NOT EXCEED 5%. HORIZONTAL CROSS SLOPE SHALL NOT EXCEED 2%. SLOPES WITHIN PEDESTRIAN RAMPS SHALL NOT EXCEED 12:1 IN ANY DIRECTION. PAVEMENT SLOPES WITHIN DESIGNATED HANDICAP PARKING SPACES SHALL NOT EXCEED 2% IN ANY DIRECTION. NO TOLERANCES ON MAXIMUM OR MINIMUM SLOPES ARE ALLOWED.

Grading Plan-Enlargement Area A

Horizontal Scale: 1" = 5'

0 5' 10'

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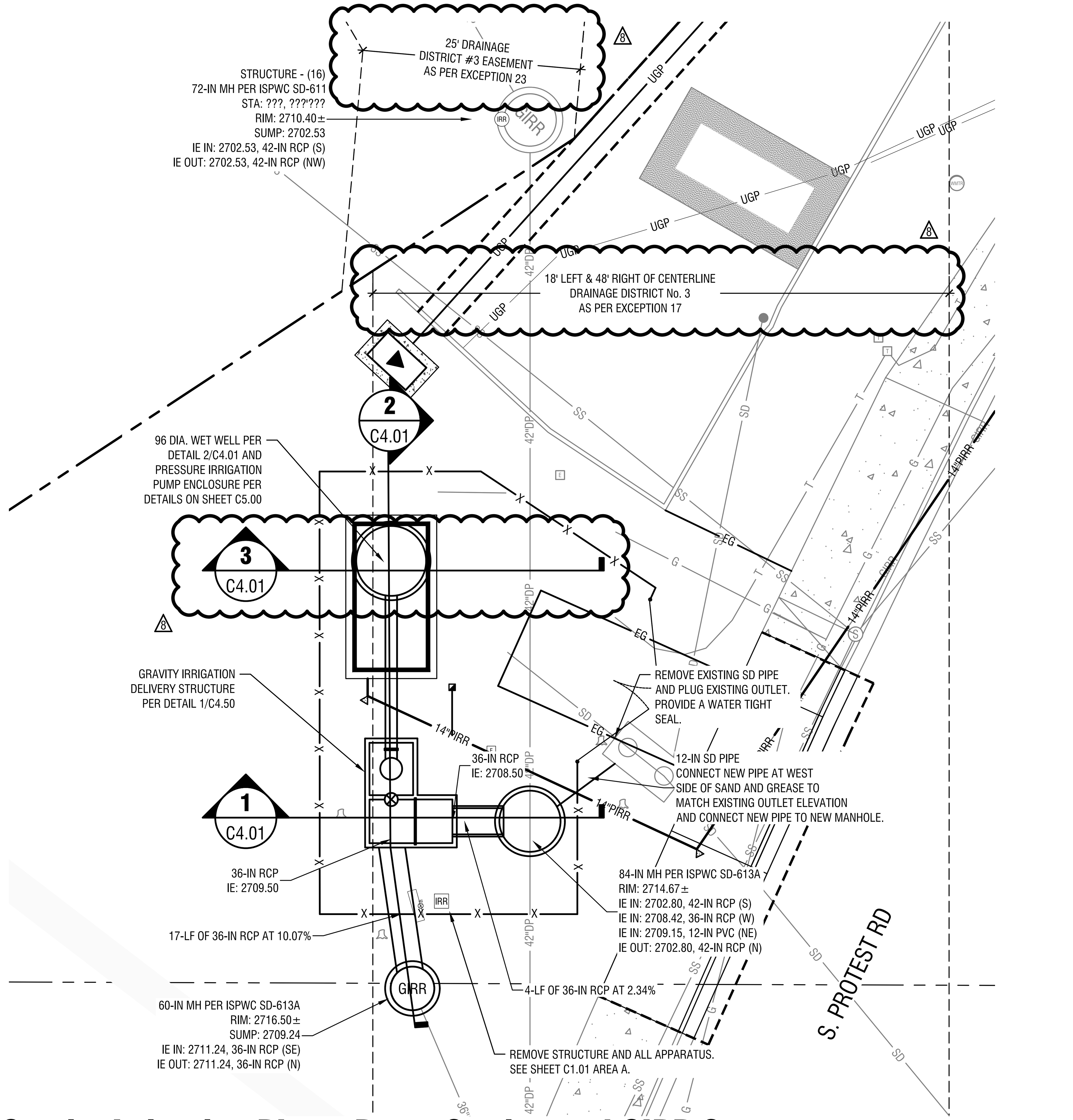
Grading Plan Enlargement Area A

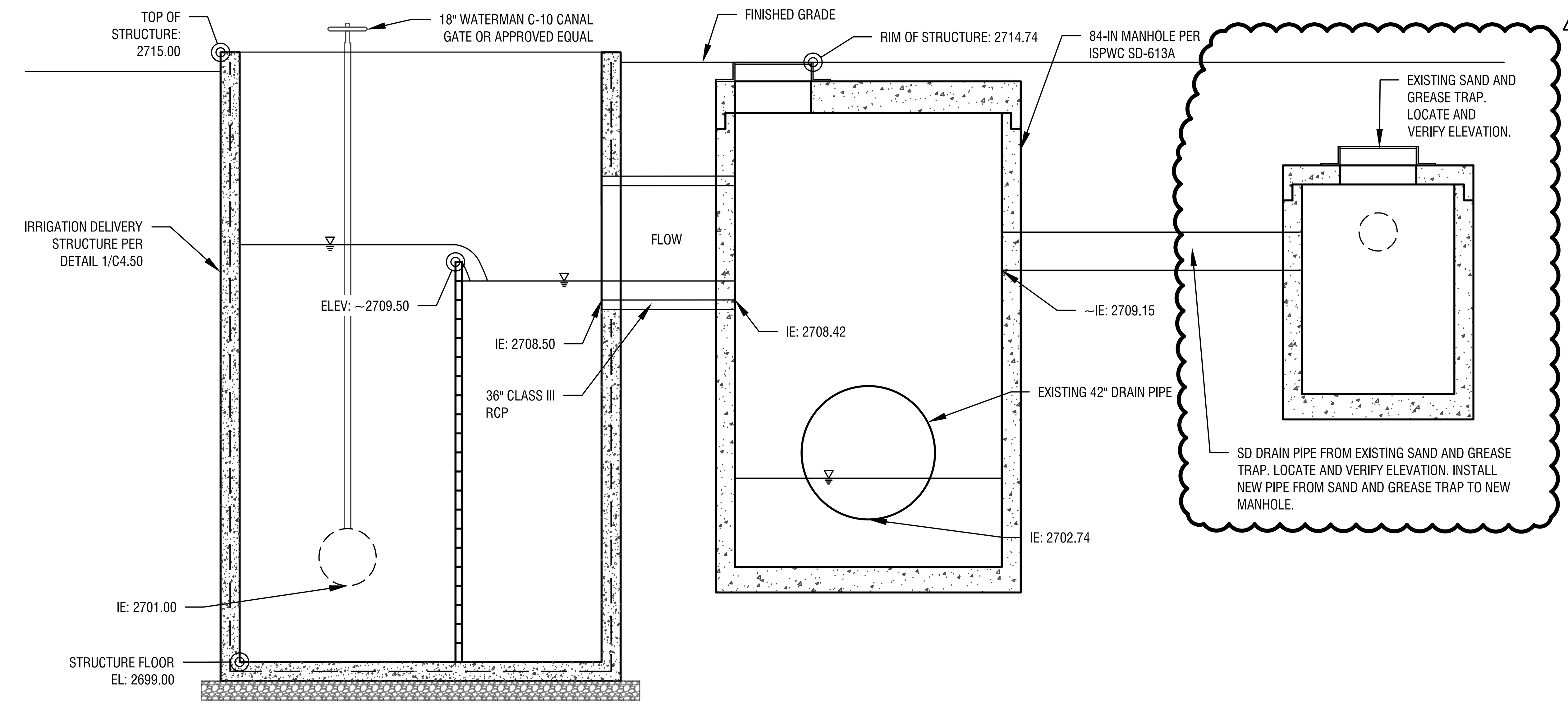
C3.01

File Location: J:\2018\118145\cad\118145-civil\09-grading-plan.dwg
Last Modified: Tuesday, July 30 2024 at 07:14 PM
Date Plotted: Tuesday, July 30 2024 at 07:14 PM



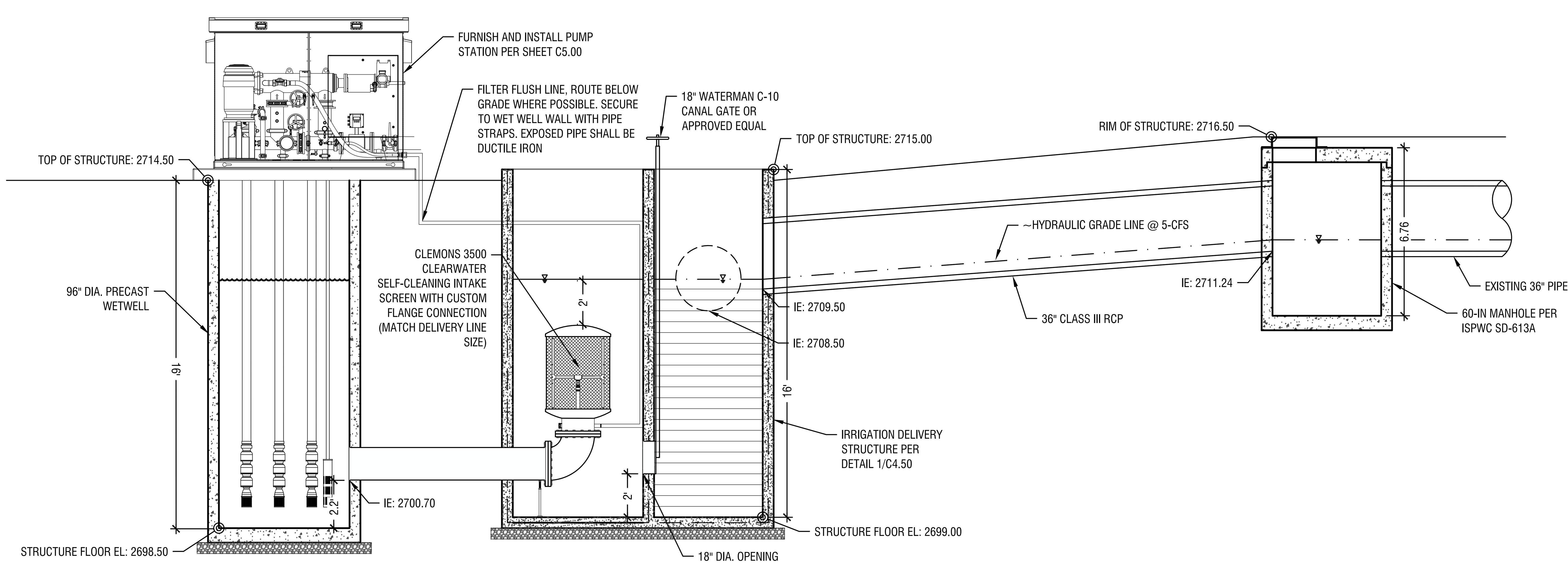
Gravity Irrigation Plan - Pump Station and GIRR Structures

Horizontal Scale: 1" = 10'



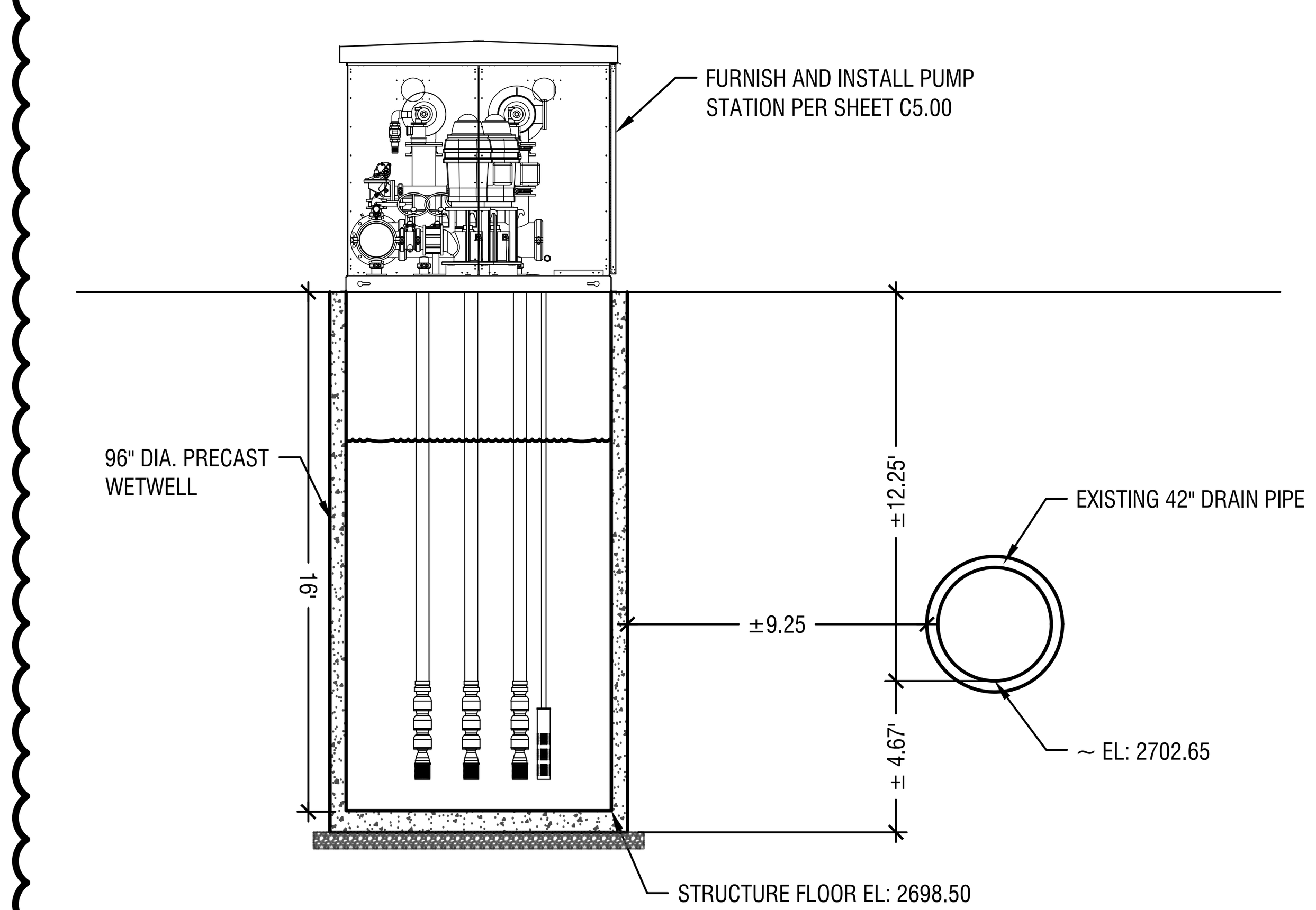
1 **GIRR Structures**

Scale: NTS



2 **Pump Station GIRR Structures**

Scale: NTS



3 **Wet Well at Drain A**

Scale: NTS

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SOUTH CAMPUS PRESSURIZED IRRIGATION
BOISE STATE UNIVERSITY

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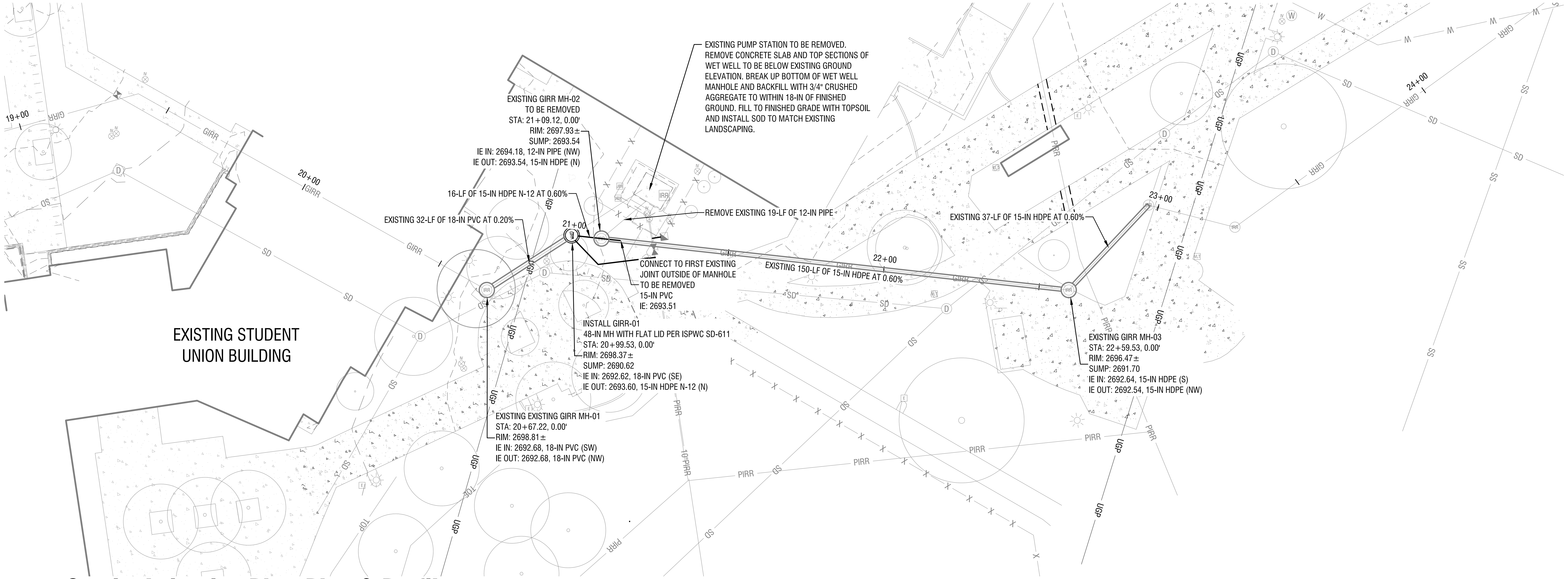
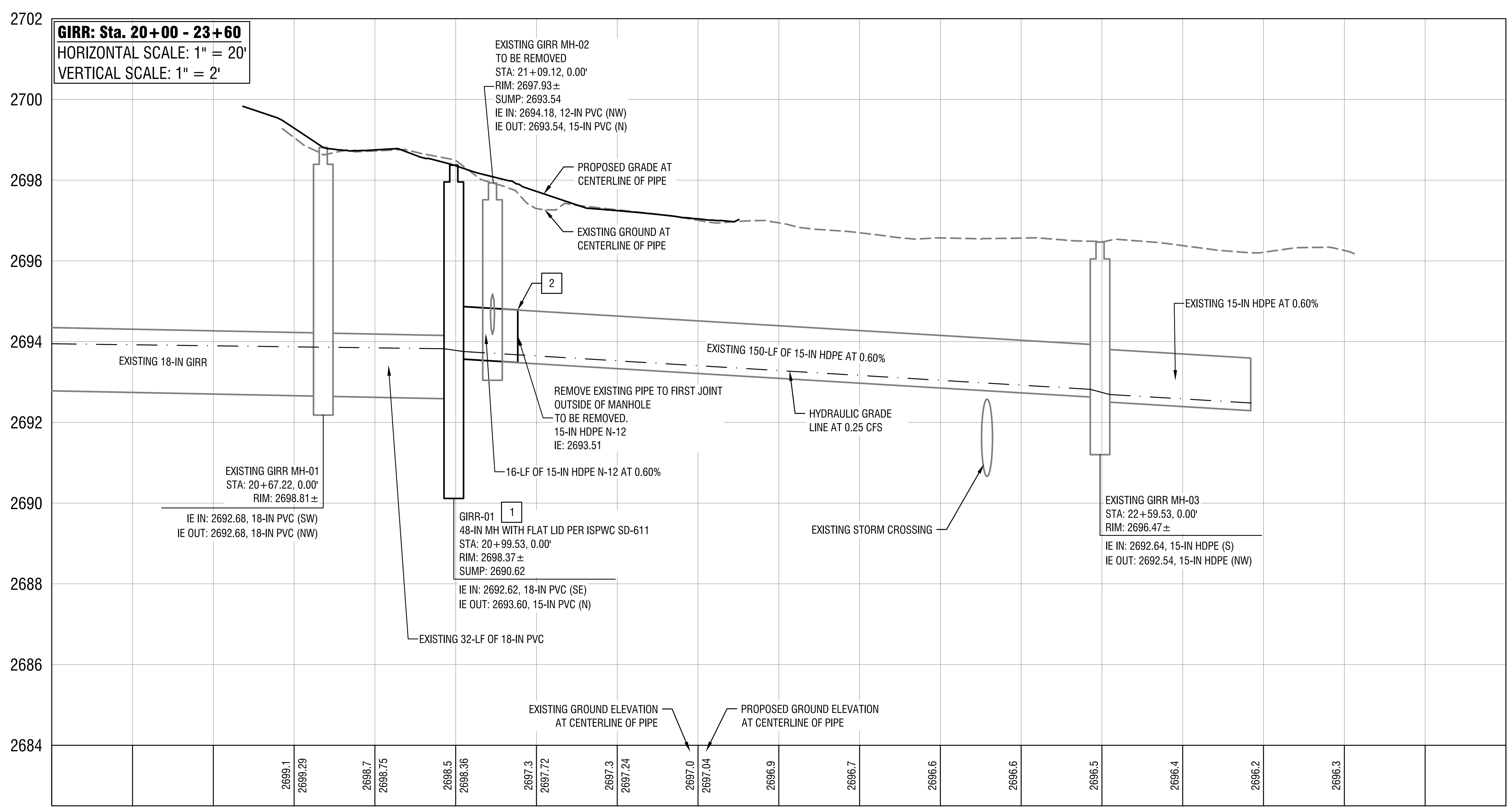
Gravity Irrigation Plan Pump Station and GIRR Structures

C4.01



Gravity Irrigation Plan-Plan & Profile

Horizontal Scale: 1" = 20'



Sheet Notes:

1. CONTRACTOR TO FIELD VERIFY ALL EXISTING CURB & GUTTER, STORM DRAIN, CHANNEL CROSSINGS, AND SEWER ELEVATIONS OR INVERTS PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER WHEN ELEVATIONS OR INVERTS DO NOT MATCH PLANS.
2. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN APPROXIMATE LOCATIONS. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT OCCUR BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.
3. ALL PIPE SHALL BE PER ISPWC WITH RUBBER GASKETED JOINTS.
4. PIPE BEDDING AND BACKFILL SHALL BE PER ISPWC SECTION 305. ALL RCP PIPE SHALL UTILIZE A CLASS B-2 BEDDING SYSTEM. ALL PVC PIPE SHALL UTILIZE A CLASS A-1 BEDDING SYSTEM.

Keynotes:

#

1. INSTALL 48-IN GRAVITY IRRIGATION MANHOLE PER ISPWC SD-611.
2. CONNECT TO EXISTING GRAVITY IRRIGATION PIPE AT FIRST JOINT OUTSIDE OF EXISTING MANHOLE.

THE LAND GROUP

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PROFESSIONAL ENGINEER
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Gravity Irrigation Plan
Plan & Profile

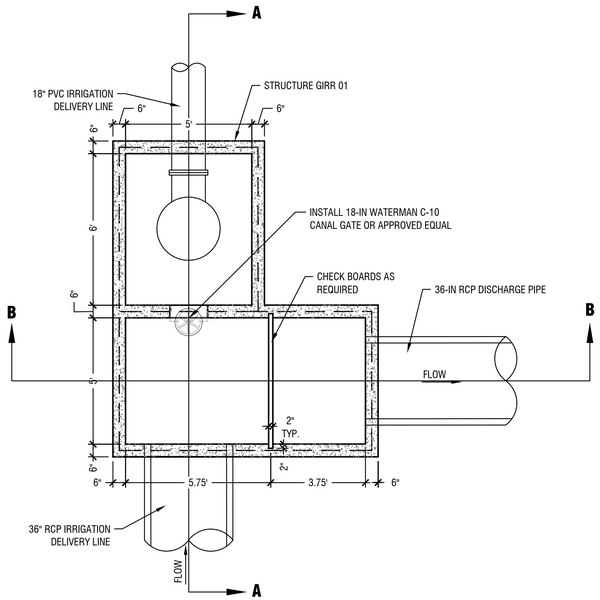
C4.02

GENERAL NOTES:

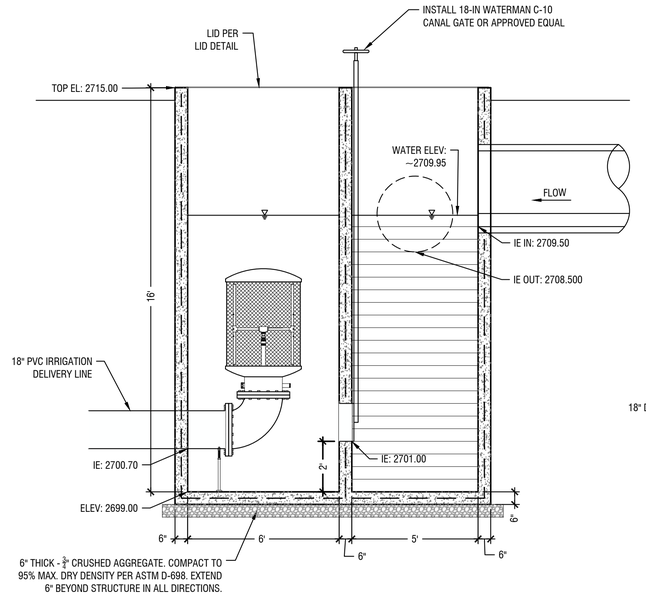
1. PROVIDE A MINIMUM OF 2" OF COVER OVER REBAR (3" IF POURED AGAINST BARE EARTH).
2. ALL CONCRETE TO BE MIN. CLASS 4000 PER ISPWC SECTION 703.
3. CONSTRUCT 3/4" CHAMFER ON ALL EXPOSED VERTICAL EDGES, MIN. 1/4" RADIUS TOOL ON ALL EXPOSED HORIZONTAL EDGES.
4. PATCH ALL EXPOSED SNAP-TIE HOLES OR OTHER CAVITIES TO PROVIDE DURABLE SURFACE WHERE IT IS EXPECTED TO BE EXPOSED TO VIEW OR WEATHER.
5. MIN. WALL THICKNESS IS 6". PROVIDE #4 REBAR ON 12" CENTERS EACH WAY, UNLESS SHOWN OTHERWISE.

STRUCTURAL LID NOTE:

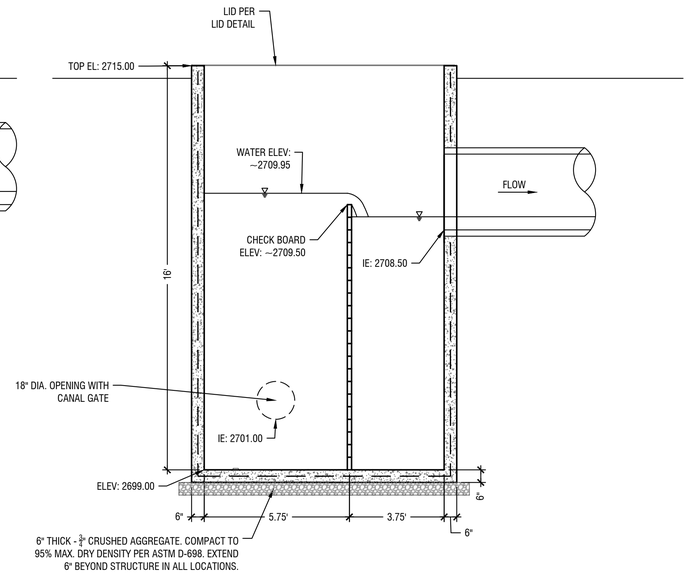
1. LIDS AND DOORS SHALL BE CONSTRUCTED WITH 5# EXPANDED METAL. IF MULTIPLE SHEETS ARE USED, SEAMS SHALL FALL AT INTERNAL SUPPORTS AND HAVE 2"x1/8" FLAT STEEL AT EDGES.
2. EXTERIOR FRAME TO BE 2"x1/8" FLAT STEEL.
3. INTERNAL SUPPORTS TO BE L5"x3"x3/8" STEEL. SUPPORTS SHALL BE PROVIDED AT ALL HINGE LOCATIONS AND ALONG SIDES OF DOORS AND COVERS WHERE SUPPORT IS NOT PROVIDED BY THE BOX WALL.
4. LIDS SHALL HAVE A CHAIN RING NEAR CANAL GATES TO SECURE GATES WITH A CHAIN.



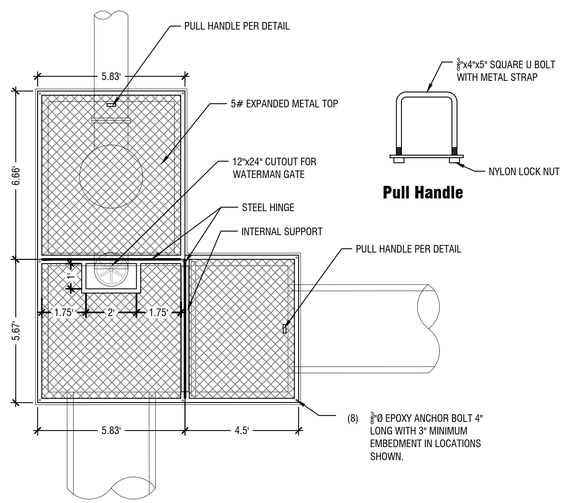
Plan View



Section A-A



Section B-B



Lid Detail

Pull Handle

1 Irrigation Delivery Structure

Scale: NTS

File Location: g:\2019\118145\cad\118145-cd-s40-girr-details.dwg
Last Modified By: Jason Densmer
Date Plotted: Tuesday, July 30 2024 at 01:13 PM

THE LAND GROUP

SOUTH CAMPUS PRESSURIZED IRRIGATION
BOISE STATE UNIVERSITY

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BOISE, IDAHO 83725

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PROFESSIONAL ENGINEER
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STATE OF IDAHO
JASON DENSMER
07/30/2024

Project No.:	118145
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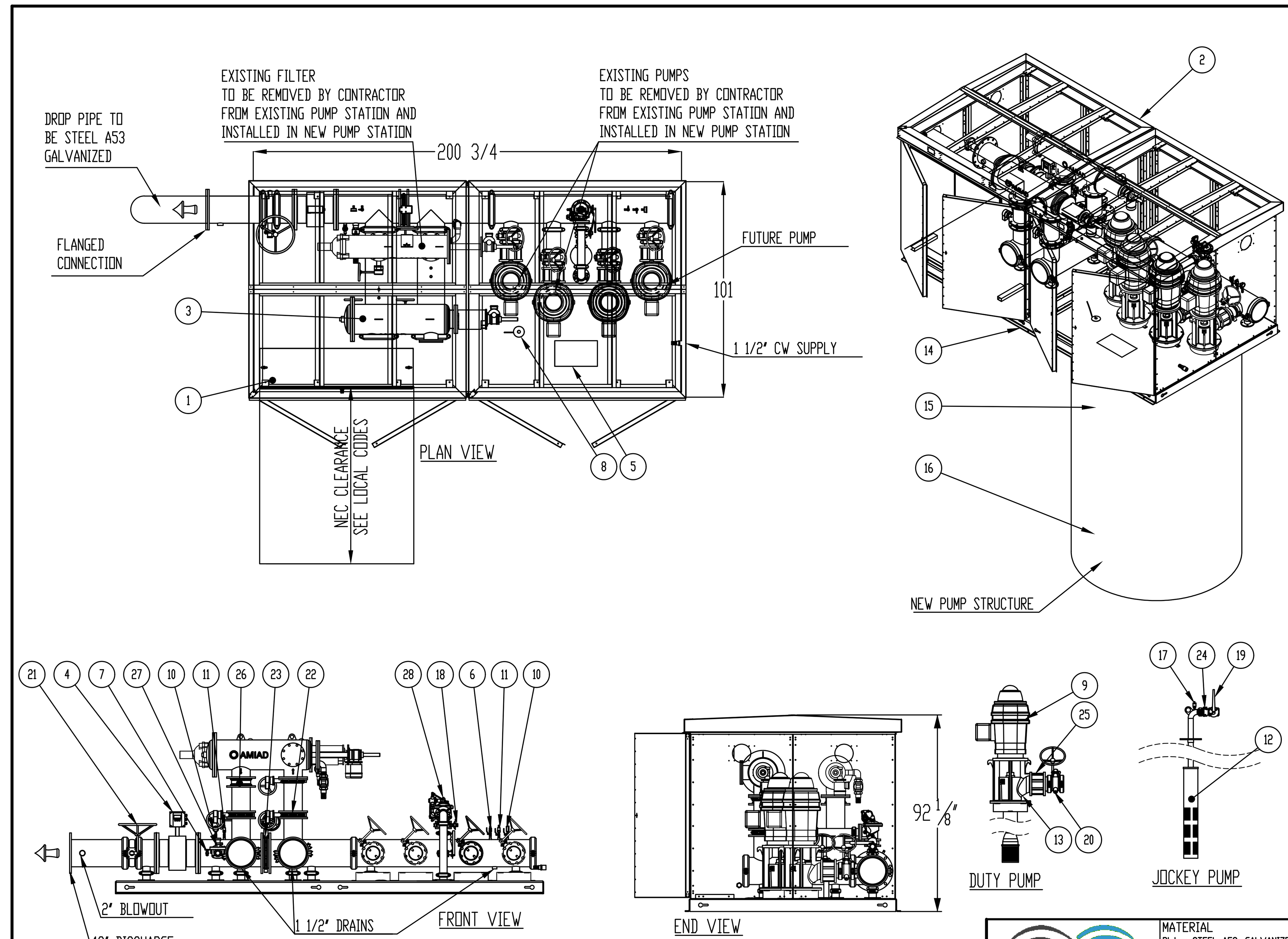
Project Milestone:	Bid Set Documents

Gravity Irrigation Plan
GIRR Details

C4.50



DESIGN SPECIFICATIONS			
Design Point 1:	1550 GPM @ 100 PSI		
Design Point 2:	2100 GPM @ 100 PSI		
Intake Pressure:	- PSI		
Main Pump:	40 HP/Pump	530 GPM @ 245 TDH	
Booster Pump:	7.5 HP/Pump	80 GPM @ 245 TDH	
Minimum Power:	480 Volt / 3 Phase		
Model #	T##V1T040D01550-100S86B483DNS-12		

ITEM NO.	DESCRIPTION	Size	QTY.
1	CONTROL PANEL	72"x72"x18"	1
2	ENCLOSURE, MARINE GRADE ALUMINUM W/ INSULATION	96"x200"x78"	1
3	FILTER, AMIAD, SAF6000, 300u	8"	1
4	FLOW METER, BADGER	12"	1
5	HATCH, ACCESS	20"X12"	1
6	HIGH PRESSURE SWITCH	1/4"	1
7	HOSE BIB	3/4"	1
8	LEVEL SENSOR/FLOAT SWITCH CAP		1
9	MOTOR	40 HP	1
10	PRESSURE GAUGE, 200 PSI	2-1/2"	2
11	PRESSURE TRANSDUCER, 200PSI	1/4"	2
12	PUMP, SUBMERSIBLE	7.5 HP	1
13	PUMP, TURBINE, DI HEAD, 6"	6"	1
14	SKID, BENT	96"x200"	1
15	SWITCH, FLOAT, 2901		1
16	TRANSMITTER, LEVEL, GLT500		1
17	VALVE, AIR RELIEF, FV-4	1/2"	1
18	VALVE, BUTTERFLY, LUG, LEVER, 250 PSI	3"	1
19	VALVE, BUTTERFLY, GROOVE, LEVER	2"	1
20	VALVE, BUTTERFLY, GROOVE, GEAR-OP	6"	1
21	VALVE, BUTTERFLY, GROOVE, GEAR-OP	12"	1
22	VALVE, BUTTERFLY, WAFER, GEAR-OP, NBE	8"	5
23	VALVE, BUTTERFLY, WAFER, GEAR-OP, NBE	12"	1
24	VALVE, CHECK, GROOVED	2"	1
25	VALVE, CHECK, SILENT	6"	1
26	VALVE, CHECK, NBE	8"	2
27	VALVE, LAKE SCREEN SUPPLY	2"	1
28	VALVE, PRESSURE RELIEF, ANGLED	3"	1

ENC W/ INSULATION
COLOR - PPS BEIGE
NON-POTABLE
NOT FOR FABRICATION

PPS
PRECISION PUMPING SYSTEMS
6515 BUSINESS WAY
BOISE, IDAHO 83716
208-323-5300
www.gopps.us

MATERIAL
Piping: STEEL A53, GALVANIZED
Skid: STEEL A36, GALVANIZED

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES
TOLERANCES:
FRACTIONAL: ±1/8"
ONE PLACE DECIMAL: ±.10
TWO PLACE DECIMAL: ±.05
DO NOT SCALE DRAWING

SALESMAN: Rob Dickson

DRAWN: DATE: 12/8/2023

TITLE: VERTICAL TURBINE PUMP STATION
PROJECT: BSU CAMPUS
LEVEL: 60% Pre-Final
PART NO: 4T-12-SJ-XX-2VF-FM-AL-NP
JOB: SIZE: B SCALE: NTS SHEET: 1 OF 1 REV: –

Contacts:

PROJECT CONTACT:
ROB DICKSON
REGIONAL SALES MANAGER
208-323-5300

THE LAND GROUP

SOUTH CAMPUS PRESSURIZED IRRIGATION
BOISE STATE UNIVERSITY

1910 UNIVERSITY DRIVE
BOISE, IDAHO 83725

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JASON DENSMER
07/30/2024

Project No.: 118145
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Pump Station
Pump Station

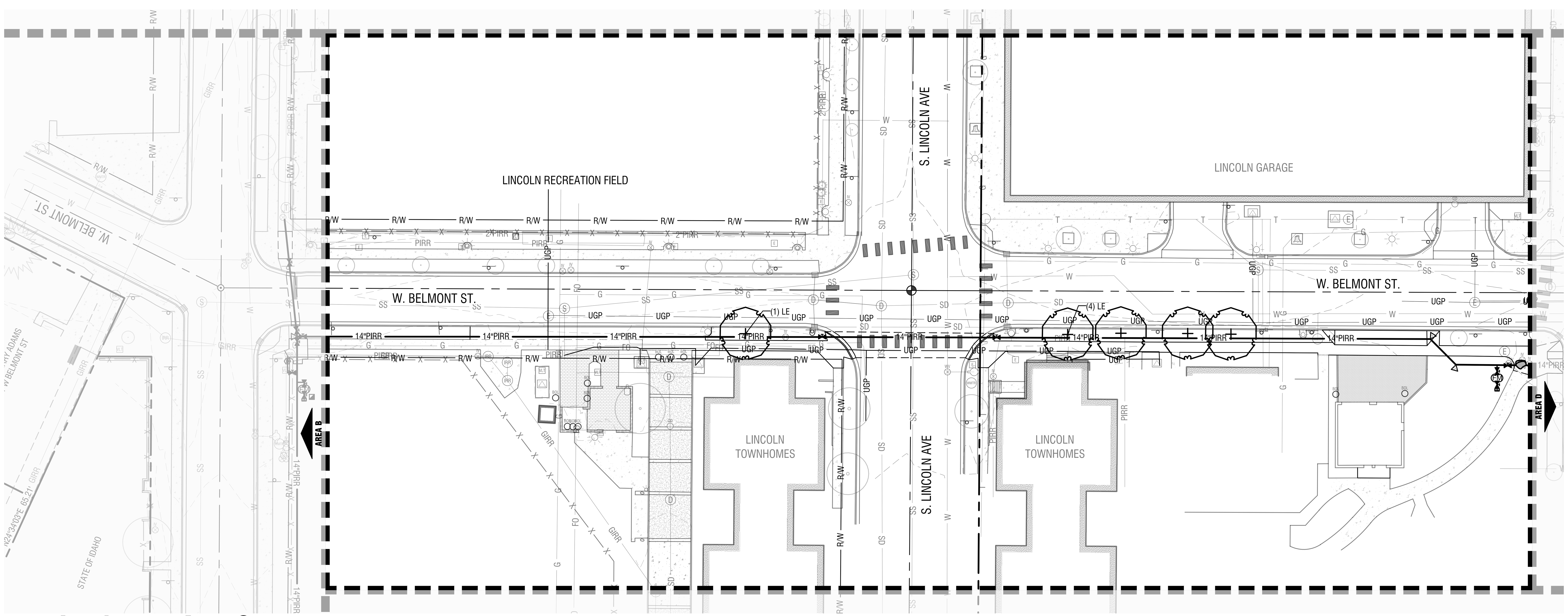
C5.00

THE LAND GROUP

SOUTH CAMPUS PRESSURIZED IRRIGATION
BOISE STATE UNIVERSITY

1910 UNIVERSITY DRIVE
BOISE, IDAHO 83725

PLANT SCHEDULE			
CODE	BOTANICAL / COMMON NAME	SIZE	CONTAINER
TREES			
LE	LIRIODENDRON TULIPIFERA `EMERALD CITY` TM / EMERALD CITY TULIP TREE	3" CAL.	B&B
MS	MALUS X `SPRING SNOW` / SPRING SNOW CRAB APPLE	3" CAL.	B&B
CONIFERS			
PF	PINUS FLEXILIS `VANDERWOLF`S PYRAMID` / VANDERWOLF`S PYRAMID PINE	8` HT.	B&B
SHRUBS			
CK	CORNUS SERICEA `KELSEYI` / KELSEYI DOGWOOD	3 GAL.	
CX	CALAMAGROSTIS X ACUTIFLORA `KARL FOERSTER` / FEATHER REED GRASS	2 GAL	
HB	HELICTOTRICHON SEMPERVIRENS `BLUE OATS` / BLUE OAT GRASS	2 GAL	
HB2	HESPERALOE PARVIFLORA 'PERPA' / BRAKELIGHTS® RED YUCCA	5 GAL.	
HO	HEMEROCALLIS X `STELLA DE ORO` / STELLA DE ORO DAYLILY	1 GAL	
PC	PHILADELPHUS LEWISII 'PWY01S' / CHEYENNE® MOCK ORANGE	5 GAL.	
PP	PINUS MUGO PUMILIO / DWARF MUGO PINE	1 GAL	
SS	SCHIZACHYRIUM SCOPARIUM 'STANDING OVATION' / STANDING OVATION LITTLE BLUESTEM	2 GAL.	
ST	SPIRAEA JAPONICA `TRACY` / DOUBLE PLAY BIG BANG SPIREA	3 GAL	



Landscape-Area C

Horizontal Scale: 1" = 30'

Revisions

1.	Addendum 2	04/23/2024
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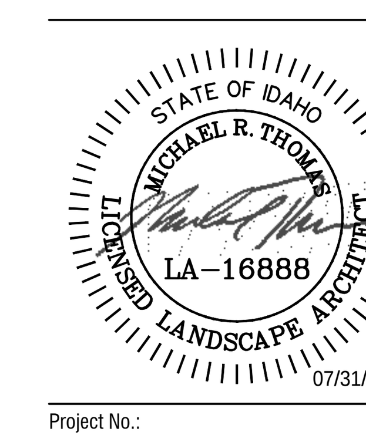
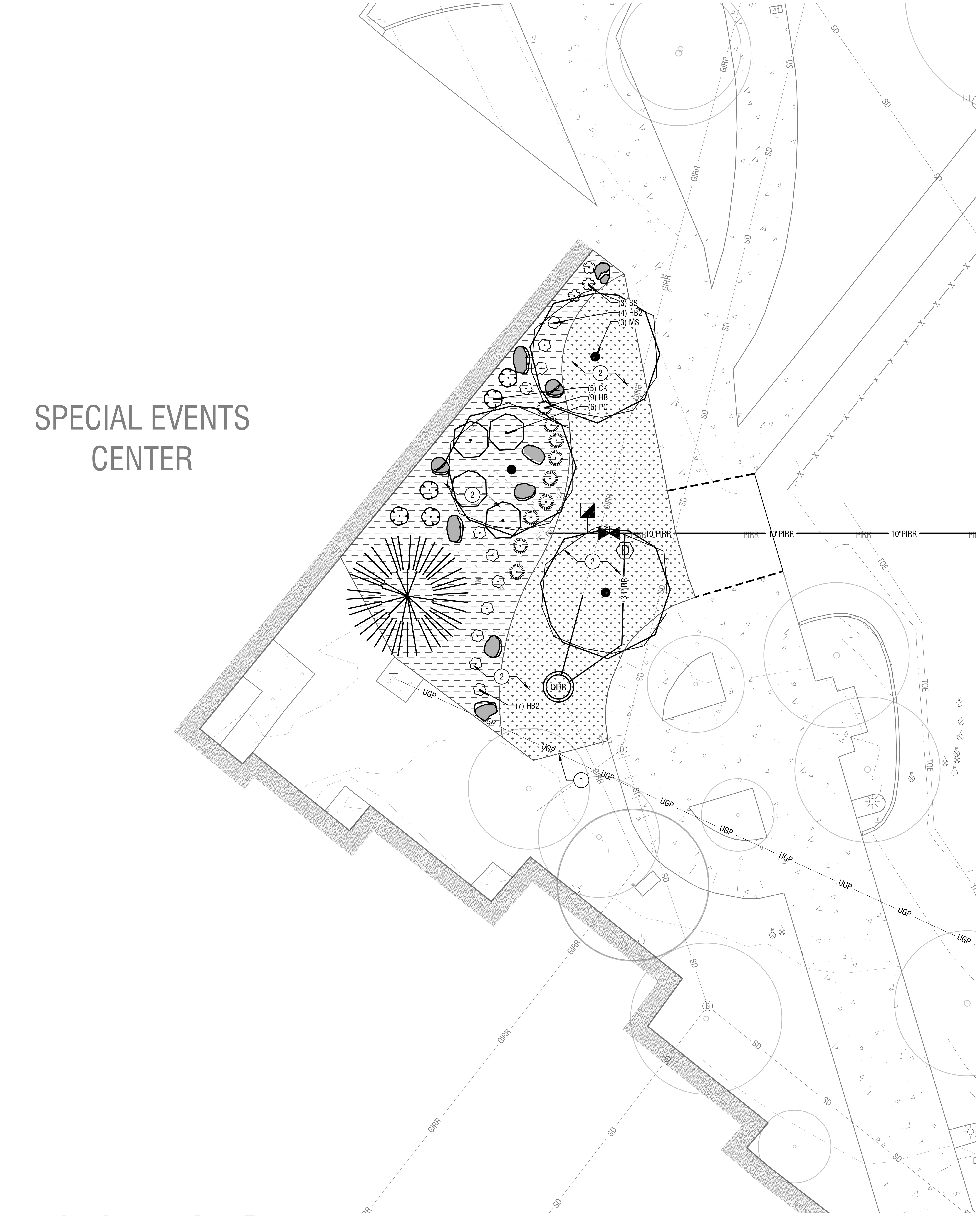


Project No.: 118145
Date of Issuance: 04/3/2024
Project Milestone: Bid Set Documents

Landscape
Area C

L1.00



Landscape - Area F

Horizontal Scale: 1" = 10'

0 10' 20'

Landscape Plan Notes:

1. CONTRACTOR TO COMPLY WITH DETAILS ON L1.50.
2. CONTRACTOR TO VERIFY LOCATION OF ALL UTILITIES PRIOR TO INITIATION OF ANY DEMOLITION OR CONSTRUCTION OPERATIONS. ANY DAMAGE TO EXISTING UTILITIES SHALL BE CONTRACTOR'S RESPONSIBILITY.
3. ALL PLAN MATERIAL SHALL CONFORM TO THE CURRENT AMERICAN STANDARD FOR NURSERY STOCK (ANSI Z60.1) SPECIFICATIONS.
4. ALL PLANT MATERIAL SHALL BE INSTALLED AS PER DETAILS AND CONTRACT SPECIFICATIONS.
5. CONTRACTOR SHALL COORDINATE PLANTING WITH IRRIGATION CONTRACTOR.
6. NO SUBSTITUTIONS WILL BE ALLOWED WITHOUT THE WRITTEN CONSENT OF THE LANDSCAPE ARCHITECT.
6. ALL NON-TURF PLANTERS SHALL RECEIVE ROCK MULCH TYPE AND DEPTH TO MATCH EXISTING.
7. IN THE EVENT OF A DISCREPANCY, NOTIFY THE LANDSCAPE ARCHITECT IMMEDIATELY.

Material Legend:

- MANUFACTURED SAND MULCH 'RUSCHMAN'S'.
- TURF SEED ECO LAWN MIX PER SPECIFICATION SECTION 32 92 00.
- IDAHO SANDSTONE BOULDERS, 3'-4' DIA. TYP. SEE DETAIL 4/L1.50.

Keynotes:

(#) CALLOUT NUMBERS COORDINATED TO NUMBERED NOTES BELOW.

1. TRANSITION FROM NEW SEED TO EXISTING SOD SHALL BE SMOOTH AND CONTINUOUS.
2. CONTRACTOR TO ADD OR REVISE IRRIGATION ZONES AS REQUIRE TO ACHIEVE 100% COVERAGE FOR SOD AND PLANTER BED AREAS.

PLANT SCHEDULE

CODE	BOTANICAL / COMMON NAME	SIZE	CONTAINER
TREES			
LE	LIRIODENDRON TULIPIFERA `EMERALD CITY` TM / EMERALD CITY TULIP TREE	3" CAL.	B&B
MS	MALUS X `SPRING SNOW` / SPRING SNOW CRAB APPLE	3" CAL.	B&B
CONIFERS			
PF	PINUS FLEXILIS `VANDERWOLF`S PYRAMID` / VANDERWOLF`S PYRAMID PINE	8` HT.	B&B
SHRUBS			
CK	CORNUS SERICEA `KELSEYI` / KELSEYI DOGWOOD	3 GAL.	
CX	CALAMAGROSTIS X ACUTIFLORA `KARL FOERSTER` / FEATHER REED GRASS	2 GAL	
HB	HELICTOTRICHON SEMPERVIRENS `BLUE OATS` / BLUE OAT GRASS	2 GAL	
HB2	HESPERALOE PARVIFLORA 'PERPA' / BRAKELIGHTS® RED YUCCA	5 GAL.	
HO	HEMEROCALLIS X `STELLA DE ORO` / STELLA DE ORO DAYLILY	1 GAL	
PC	PHILADELPHUS LEWISII 'PWY01S' / CHEYENNE® MOCK ORANGE	5 GAL.	
PP	PINUS MUGO PUMILIO / DWARF MUGO PINE	1 GAL	
SS	SCHIZACHYRIUM SCOPARIUM 'STANDING OVATION' / STANDING OVATION LITTLE BLUESTEM	2 GAL.	
ST	SPIRAEA JAPONICA `TRACY` / DOUBLE PLAY BIG BANG SPIREA	3 GAL	

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BOISE, IDAHO 83725

Revisions

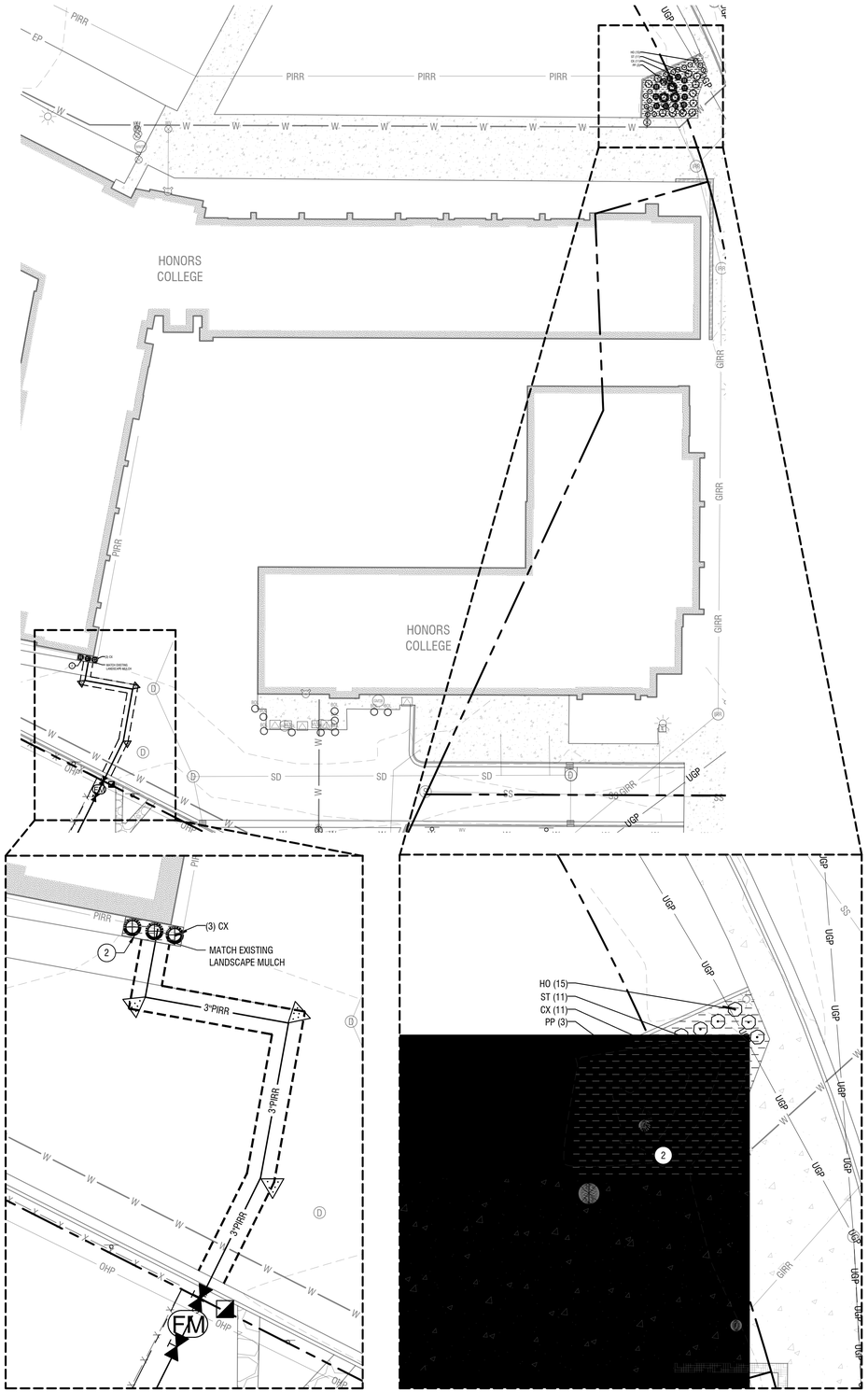
1.	Addendum 2	04/23/2024
2.	Addendum 3	05/16/2024
3.	Addendum 4	05/20/2024
4.	Addendum 5	05/21/2024
5.	Addendum 6	05/29/2024
6.	ACHD Comments	06/20/2024
7.	Conformance Set	07/22/2024
8.	DD3 Comments	07/30/2024

STATE OF IDAHO
MICHAEL R. THOMAS
LA-16888
LICENSED LANDSCAPE ARCHITECT
07/31/2024

Project No.: 118145
Date of Issuance: 04/3/2024
Project Milestone: Bid Set Documents

Landscape
Area F

L1.01



PLANT SCHEDULE

CODE	BOTANICAL / COMMON NAME	SIZE	CONTAINER
TREES			
LE	LIRIODENDRON TULIPIFERA `EMERALD CITY` TM / EMERALD CITY TULIP TREE	3" CAL.	B&B
MS	MALUS X `SPRING SNOW` / SPRING SNOW CRAB APPLE	3" CAL.	B&B
CONIFERS			
PF	PINUS FLEXILIS `VANDERWOLF`S PYRAMID` / VANDERWOLF`S PYRAMID PINE	8` HT.	B&B
SHRUBS			
CK	CORNUS SERICEA `KELSEYI` / KELSEYI DOGWOOD	3 GAL.	
CX	CALAMAGROSTIS X ACUTIFLORA `KARL FOERSTER` / FEATHER REED GRASS	2 GAL	
HB	HELICTOTRICHON SEMPERVIRENS `BLUE OATS` / BLUE OAT GRASS	2 GAL	
HB2	HESPERALOE PARVIFLORA 'PERPA' / BRAKELIGHTS® RED YUCCA	5 GAL.	
HO	HEMEROCALLIS X `STELLA DE ORO` / STELLA DE ORO DAYLILY	1 GAL	
PC	PHILADELPHUS LEWISII 'PWY01S' / CHEYENNE® MOCK ORANGE	5 GAL.	
PP	PINUS MUGO PUMILIO / DWARF MUGO PINE	1 GAL	
SS	SCHIZACHYRIUM SCOPARIUM 'STANDING OVATION' / STANDING OVATION LITTLE BLUESTEM	2 GAL.	
ST	SPIRAEA JAPONICA `TRACY` / DOUBLE PLAY BIG BANG SPIREA	3 GAL	

Landscape-Area J

Horizontal Scale: 1" = 10'

Landscape-Area H

Horizontal Scale: 1" = 10'

0 10' 20'

THE LAND GROUP

SOUTH CAMPUS PRESSURIZED IRRIGATION
BOISE STATE UNIVERSITY

1910 UNIVERSITY DRIVE
BOISE, IDAHO 83725

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07/31/2024

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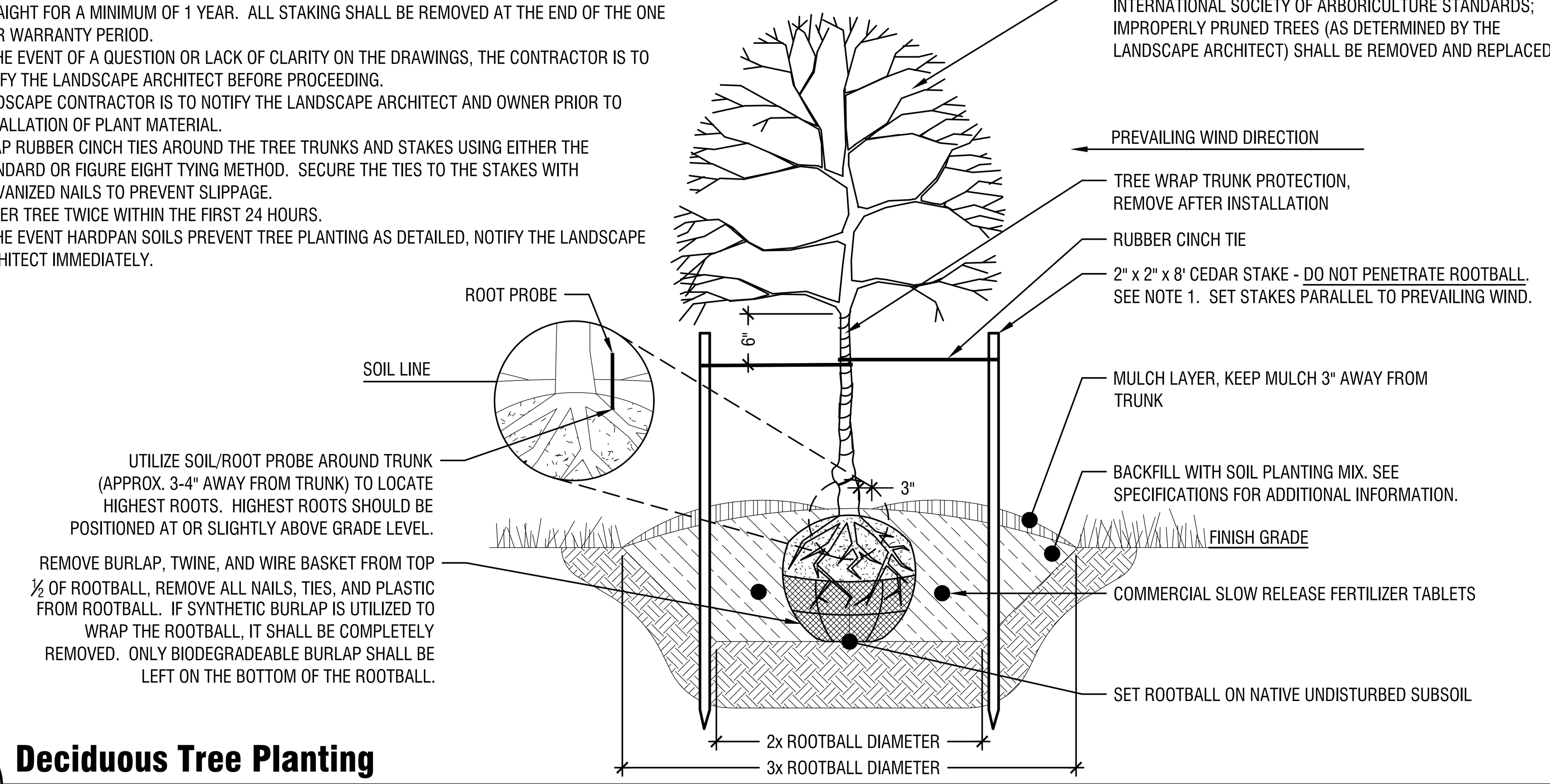
Landscape Area J and H

L1.02

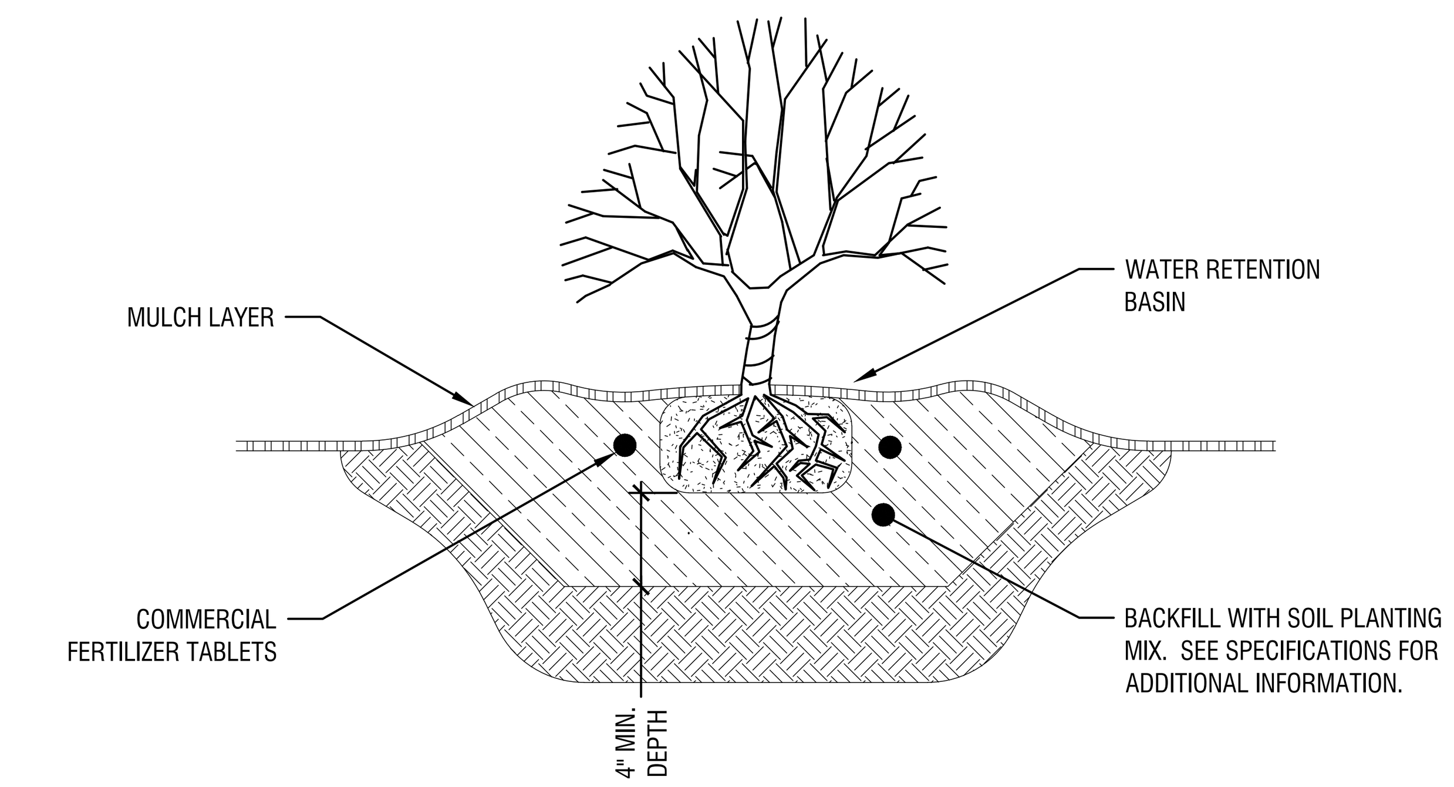
File Location: g:\2018\118145\cad\118145-sd-1800-landscape-plan.dwg
Last Modified By: mthomas
Date Plotted: Tuesday, July 30, 2024 at 2:16 PM

NOTES:
1. THE STAKING OF TREES IS TO BE THE CONTRACTOR'S OPTION; HOWEVER, THE CONTRACTOR IS RESPONSIBLE TO INSURE THAT ALL TREES ARE PLANTED STRAIGHT AND THAT THEY REMAIN STRAIGHT FOR A MINIMUM OF 1 YEAR. ALL STAKING SHALL BE REMOVED AT THE END OF THE ONE YEAR WARRANTY PERIOD.
2. IN THE EVENT OF A QUESTION OR LACK OF CLARITY ON THE DRAWINGS, THE CONTRACTOR IS TO NOTIFY THE LANDSCAPE ARCHITECT BEFORE PROCEEDING.
3. LANDSCAPE CONTRACTOR IS TO NOTIFY THE LANDSCAPE ARCHITECT AND OWNER PRIOR TO INSTALLATION OF PLANT MATERIAL.
4. WRAP RUBBER CINCH TIES AROUND THE TREE TRUNKS AND STAKES USING EITHER THE STANDARD OR FIGURE EIGHT TYING METHOD. SECURE THE TIES TO THE STAKES WITH GALVANIZED NAILS TO PREVENT SLIPPAGE.
5. WATER TREE TWICE WITHIN THE FIRST 24 HOURS.
6. IN THE EVENT HARDPAN SOILS PREVENT TREE PLANTING AS DETAILED, NOTIFY THE LANDSCAPE ARCHITECT IMMEDIATELY.



1 Deciduous Tree Planting

Scale: NTS



2 Shrub Planting

Scale: NTS

NOTES:
1. THE STAKING OF TREES IS TO BE THE CONTRACTOR'S OPTION; HOWEVER, THE CONTRACTOR IS RESPONSIBLE TO INSURE THAT ALL TREES ARE PLANTED STRAIGHT AND THAT THEY REMAIN STRAIGHT FOR A MINIMUM OF 1 YEAR. ALL STAKING SHALL BE REMOVED AT THE END OF THE ONE YEAR WARRANTY PERIOD.
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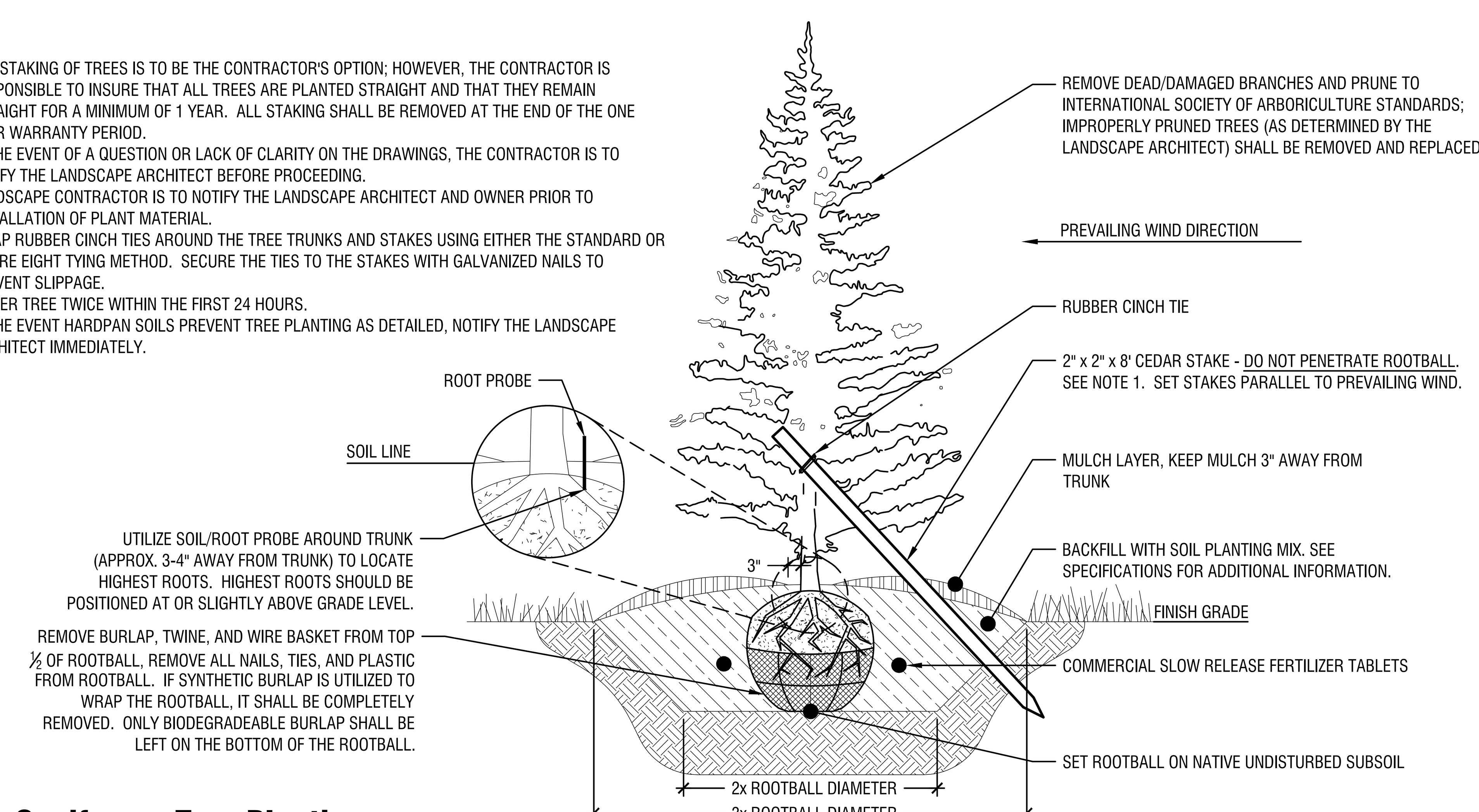
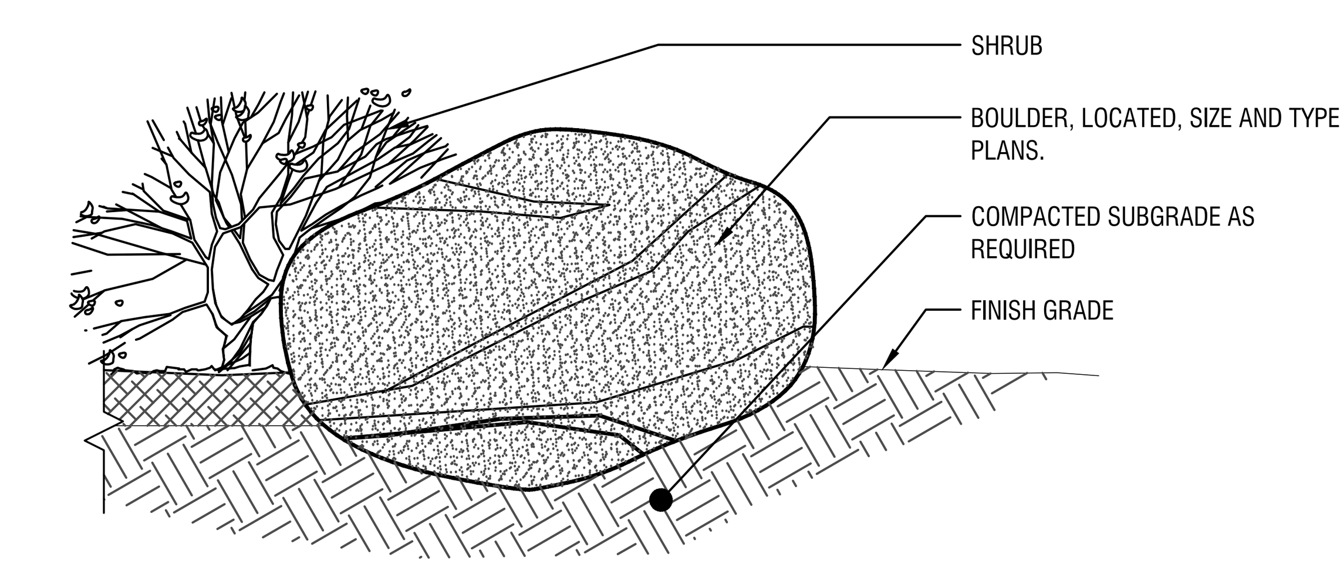
3. LANDSCAPE CONTRACTOR IS TO NOTIFY THE LANDSCAPE ARCHITECT AND OWNER PRIOR TO INSTALLATION OF PLANT MATERIAL.
4. WRAP RUBBER CINCH TIES AROUND THE TREE TRUNKS AND STAKES USING EITHER THE STANDARD OR FIGURE EIGHT TYING METHOD. SECURE THE TIES TO THE STAKES WITH GALVANIZED NAILS TO PREVENT SLIPPAGE.
5. WATER TREE TWICE WITHIN THE FIRST 24 HOURS.
6. IN THE EVENT HARDPAN SOILS PREVENT TREE PLANTING AS DETAILED, NOTIFY THE LANDSCAPE ARCHITECT IMMEDIATELY.



3 Coniferous Tree Planting

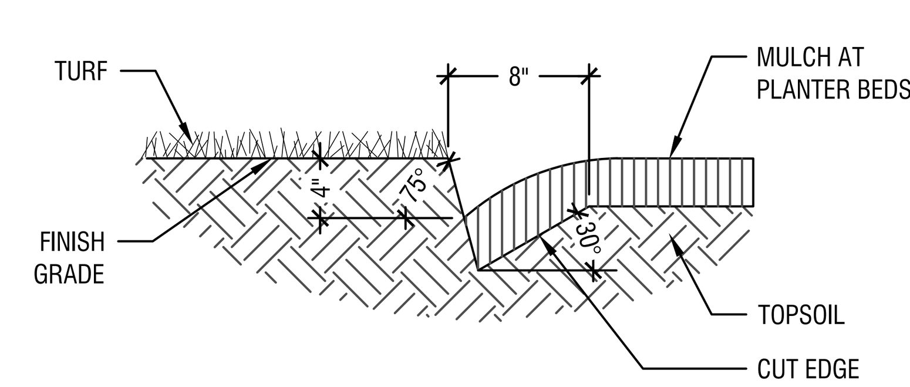
Scale: NTS



NOTES:
1. NOTIFY LANDSCAPE ARCHITECT WHEN PLACING BOULDERS FOR APPROVAL.
2. PLACE BOULDERS PRIOR TO INSTALLATION OF IRRIGATION SYSTEM.
3. CLEAN ALL BOULDERS OF DIRT AND LOOSE DEBRIS.
4. WHEN PLACING BOULDERS, BURY 1/4 TO 1/3 OF BOULDER BELOW FINISH GRADE.
5. DO NOT SCAR OR DAMAGE BOULDERS.

4 Boulder Installation

Scale: NTS



5 Planter Edge Cut Edge

Scale: NTS

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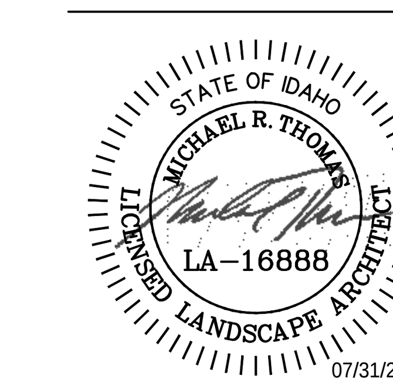


07/31/2024

Project No.:	118145
Date of Issuance:	04/3/2024
Project Milestone:	Bid Set Documents

Landscape
Landscape Details

L1.50

DEVICES

- S^a_X SWITCH, TYPE AS INDICATED. +46"AFF
  - 2 DOUBLE POLE
  - 3 3-WAY
  - 4 4-WAY
  - K KEYED
  - P PILOT LIGHT
  - D DIMMER
  - HP HORSEPOWER RATED
  - TO THERMAL OVERLOAD
  - LV LOW VOLTAGE
  - OS OCCUPANCY SENSOR
  - OR LOW VOLTAGE, MOMENTARY OVERRIDE
  - VS VACANCY SENSOR
  - a SUPERSCRIPT INDICATES LIGHTS TO BE SWITCHED TOGETHER
- DUAL LEVEL SWITCHING, INSIDE AND OUTSIDE LAMPS OF FIXTURE TO BE SWITCHED SEPARATELY.
- DUAL LEVEL SWITCHING WITH OCCUPANCY SENSOR, INSIDE AND OUTSIDE LAMPS OF FIXTURE TO BE SWITCHED SEPARATELY.
- OCCUPANCY SENSOR WITH MANUAL DIMMING, SET FOR 50% AUTOMATIC ON, AUTOMATIC OFF, WITH MANUAL DIMMING.
- SINGLE CONVENIENCE OUTLET, +18" AFF UNO
- FLOOR MOUNT SINGLE CONVENIENCE OUTLET
- DUPLEX CONVENIENCE OUTLET, +18" AFF UNO
- FLOOR MOUNT DUPLEX CONVENIENCE OUTLET
- EMERGENCY DUPLEX CONVENIENCE OUTLET, +18" AFF UNO
- SWITCHED DUPLEX CONVENIENCE OUTLET, +18" AFF UNO
- FLOOR MOUNTED SWITCHED DUPLEX CONVENIENCE OUTLET
- USB DUPLEX CONVENIENCE OUTLET, +18" AFF UNO
- USB FOURPLEX CONVENIENCE OUTLET, +18" AFF UNO
- FOURPLEX CONVENIENCE OUTLET. +18"AFF UNO
- FLOOR MOUNT FOURPLEX CONVENIENCE OUTLET
- CONNECTION POINT TO EQUIPMENT SPECIFIED, ELECTRICAL CONTRACTOR TO SUPPLY RACEWAY AND CONDUCTORS AND MAKE FINAL CONNECTION TO EQUIPMENT UNDER THIS SECTION. UNO
- FLOOR MOUNTED CONNECTION POINT, SEE NOTE ABOVE FOR REQUIREMENTS
- FLOOR MOUNTED JUNCTION BOX
- JUNCTION BOX
- WALL MOUNTED PUSH BUTTON, MOUNT AT SWITCH HEIGHT UNO
- HC WALL MOUNTED PUSH BUTTON, HANDICAPPED MOUNT AT SWITCH HEIGHT UNO
- WALL MOUNTED PUSH BUTTON, MOUNT AT SWITCH HEIGHT UNO
- MOTOR STARTER/CONTACTOR, SIZE/POLES NEMA 1 UNO AS INDICATED
- COMBINATION STARTER AND DISCONNECT, SIZE/POLES, STARTER SIZE AS INDICATED, NEMA 1 UNO
- FUSED DISCONNECT SWITCH, SIZE/POLES, FUSE SIZES AS INDICATED, NEMA 1 UNO
- NON-FUSED DISCONNECT SIZE/ POLES AS INDICATED, NEMA 1 UNO
- TRANSFORMER
- PANELBOARD. SEE SCHEDULE FOR TYPE.
- EQUIPMENT CABINET, SURFACE MOUNTED
- EQUIPMENT CABINET FLUSH MOUNTED
- MECHANICAL EQUIPMENT CALL OUT

ONE LINE

- DELTA WYE TRANSFORMER UNO
- PANEL NAME VOLTAGE PHASE — PANEL BOARD, SEE SCHEDULE FOR TYPE AND SIZE
- ##A #P — CIRCUIT BREAKER, SIZE AND POLES INDICATED
- ##A — FUSE, SIZE AND TYPE INDICATED, PROVIDE FUSE FOR EACH POLE
- ##A #P — INTERRUPTER SWITCH, SIZE AND POLES INDICATED
- ##A #P — FUSED SWITCH, SIZE/POLES AND FUSE SIZE INDICATED
- 125A 3P — INDIVIDUAL BREAKER WITH SHUNT TRIP, SIZE AND POLES INDICATED. NEMA 1 UNO
- 125A 3P — INDIVIDUAL BREAKER, SIZE AND POLES INDICATED. NEMA 1 UNO
- GFP — GROUND FAULT PROTECTION
- TVSS — TRANSIENT VOLTAGE SURGE SUPPRESSION
- LSIGR — ADJUSTABLE BREAKER SETTINGS (PER SPECIFICATIONS):
  - 'L'-LONG TIME
  - 'S'-SHORT TIME
  - 'I'-INSTANTANEOUS
  - 'G'-GROUND FAULT
  - 'R'-ENERGY REDUCING MAINTENANCE SWITCH W/STATUS INDICATOR
- GROUND
- ST — SHUNT TRIP COIL
- M — MOTOR
- 100A 3P — DISCONNECT SWITCH, SIZE AND POLES INDICATED. NEMA 1 UNO
- OVERHEAD SERVICE DROP
- GENERATOR SET, MAIN BREAKER SIZE INDICATED
- AUTOMATIC TRANSFER SWITCH (ATS)
- M — METER AND BASE
- N — NEUTRAL
- T — DRY TYPE TRANSFORMER
- PAD MOUNT TRANSFORMER

ELECTRICAL GENERAL NOTES

A. THESE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE; THEREFORE, THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL ELECTRICAL EQUIPMENT AND DEVICE LOCATIONS WITH ARCHITECTURAL, MECHANICAL, AND PLUMBING DIVISIONS PRIOR TO ROUGH-IN. REFER TO AND COORDINATE WITH ARCHITECTURAL, MECHANICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL WORK THAT IS REQUIRED BY THE ELECTRICAL CONTRACTOR.

B. ALL CONDUIT AND JUNCTION BOXES ARE TO BE CONCEALED UNLESS LOCATED WITHIN DEDICATED ELECTRICAL OR MECHANICAL ROOMS. USE OF SURFACE MOUNTED RACEWAYS IN ALL OTHER SPACES MUST BE APPROVED BY THE ARCHITECT FOR EACH LOCATION. WHERE SURFACE RACEWAYS ARE APPROVED, UTILIZE WIREMOLD, OR APPROVED EQUAL, SURFACE MOUNTED RACEWAYS PAINTED TO MATCH SURROUNDING WALLS.

C. REFER TO ARCHITECTURAL ELEVATIONS FOR OUTLET HEIGHTS WHERE THE SPECIFIC OUTLET HEIGHT IS NOT INDICATED. REFER TO THE ELECTRICAL LEGEND FOR THE DEFAULT OUTLET HEIGHT WHEN NOT INDICATED ON ELEVATIONS OR ON AT THE DEVICES.

D. PROVIDE PULL-LINE IN ALL EMPTY CONDUITS.

E. TERMINATE ALL LOW-VOLTAGE CONDUITS WITH INSULATED THROAT BUSHING.

F. MECHANICAL EQUIPMENT INDICATED IS SHOWN IN AN APPROXIMATE LOCATION. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.

G. CONTRACTOR SHALL COORDINATE WITH AN UNDERGROUND LOCATING SERVICE PRIOR TO COMMENCING WORK. SEE CIVIL DRAWINGS FOR ADDITIONAL SITE INFORMATION. COORDINATE WITH OTHER SITE DISCIPLINES.

H. SITE LIGHTING AND UTILITY EQUIPMENT SHOWN IN APPROXIMATE LOCATION. COORDINATE EXACT LOCATION WITH CIVIL DRAWINGS, PROPERTY LINES, AND UTILITY COMPANIES PRIOR TO ROUGH-IN.

I. REFER TO POLE BASE DETAIL FOR SITE LIGHTING POLE BASE REQUIREMENTS.

J. ROUTE CONDUITS IN COMMON TRENCH WHERE POSSIBLE REFER TO TRENCHING DETAIL.

K. THE ELECTRICAL DEMOLITION DRAWING(S) PROVIDED ARE INTENDED TO ASSIST THE ELECTRICAL CONTRACTOR IN ESTABLISHING AREAS REQUIRING DISCONNECTION, REMOVAL, OR RELOCATION OF ELECTRICAL EQUIPMENT, OUTLETS, WIRING, DEVICES, FIXTURES, ETC. AND MAY NOT INDICATE ALL DEVICES OR THE FULL EXTENT OF DEMOLITION AND RECONNECTION WHICH MAY BE REQUIRED. THE ELECTRICAL CONTRACTOR SHALL VISIT THE JOB SITE AND THOROUGHLY EXAMINE ALL REQUIRED DEMOLITION WORK AND INCLUDE ALL LABOR AND INCIDENTALS THAT WILL BE NECESSARY TO PERFORM DEMOLITION RECONNECTION AND TEMPORARY POWER CONNECTIONS IN THE BID.

L. ALL ELECTRICAL DEVICES AND WALLS INDICATED ON THE ELECTRICAL DEMOLITION DRAWING(S) ARE TO REMAIN UNLESS OTHERWISE NOTED.

ELECTRICAL ABBREVIATIONS

A	AMPERES
AC	6" ABOVE BACKSPLASH
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AF	AMP FRAME
AIC	AMPS INTERRUPTING CAPACITY
AT	AMP TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
BD	BOTTOM OF DECK
BS	BOTTOM OF STRUCTURE
C	CEILING MOUNTED
C	CONDUIT
CB	CIRCUIT BREAKER
CF	COMPACT FLUORESCENT
CKT	CIRCUIT
CO	CONDUIT ONLY, PROVIDE PULL-LINE
CT	CURRENT TRANSFORMER
CTL	CONTROL
DC	DIRECT CURRENT
(D)	DEMOLITION
DEMO	DEMOLITION
DET	DETAIL
DTT	DOUBLE TWIN TUBE
E	EMERGENCY
(E)	EXISTING
EC	ELECTRICAL CONTRACTOR
EL	EMERGENCY LIGHT
F	FUSE
(F)	FUTURE
FACP	FIRE ALARM CONTROL PANEL
G/GND	GROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFI	GROUND FAULT INTERRUPTER
HH	HAND HOLE
HID	HIGH INTENSITY DISCHARGE
HOA	HAND-OFF-AUTO
HPS	HIGH PRESSURE SODIUM
HVAC	HEATING, VENTILATION, & AIR CONDITIONING
IG	ISOLATED GROUND
IPCO	IDAHO POWER COMPANY
J-BOX	JUNCTION BOX
KA	KILOAMP
KVA	KILO VOLT-AMP
KW	KILOWATT
KWH	KILOWATT HOUR
LCP	LIGHTING CONTROL PANEL
MB	MAIN BREAKER
MBR	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MDP	MAIN DISTRIBUTION PANEL
MLO	MAIN LUGS ONLY
MMC	MODULAR METERING CENTER
MH	METAL HALIDE
MSB	MAIN SWITCH BOARD
MTG	MOUNTING
N	NEUTRAL
(N)	NEW
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OH	OVERHEAD
OS	OCCUPANCY SENSOR
P	POLES
PC	PHOTO-CONTROL
PVC	POLYVINYL CHLORIDE
PWR	POWER
RE:	REFERENCE
REC	RECEPTACLE
(R)	RELOCATED
SF	SQUARE FEET
TBD	TO BE DETERMINED
TDR	TIME DELAY RELAY
TK	TOE KICK
TR	TAMPER RESISTANT
TSP	TWISTED SHIELDED PAIR
TRT	TRIPLE TUBE
TTB	TELEPHONE TERMINAL BOARD
(TYP.)	TYPICAL
UC	UNDERCABINET
UG	UNDERGROUND
U.N.O.	UNLESS NOTED OTHERWISE
V	VOLT
VA	VOLT-AMPERE
W	WATT
WG	WIRE GUARD
WP	WEATHER PROOF/NEMA 3R
PROVIDED/ PROVIDE BY INSTALLED/ INSTALL	PROVIDE AND INSTALL / PROVIDED AND INSTALLED BY / PROVIDE AND INSTALL
NOTE:	THIS IS A STANDARD LIST OF COMMONLY USED ELECTRICAL ABBREVIATIONS. SOME OF THE ABBREVIATIONS SHOWN ABOVE MAY NOT BE USED IN THIS DRAWING PACKAGE.

ELECTRICAL SPECIFICATIONS

A. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE LOCALLY ADOPTED ELECTRICAL CODE, ALL LOCAL CODES, AND TO THE FULL ACCEPTANCE OF THE AUTHORITY HAVING JURISDICTION.

B. OBTAIN ALL PERMITS, COORDINATE, FURNISH, INSTALL, CONNECT AND TEST ALL ELECTRICAL EQUIPMENT REQUIRED FOR ALL THE SYSTEMS INSTALLED UNDER THIS CONTRACT TO INSURE COMPLETE AND FULLY OPERATIONAL SYSTEMS.

C. CONTRACTOR SHALL MAINTAIN A COMPLETE SET OF AS-BUILT DRAWINGS. AS-BUILT SET OF DRAWINGS SHALL BE UPDATED DAILY AND SHALL DOCUMENT THE ACTUAL INSTALLED CONDITION OF THE ENTIRE ELECTRICAL INSTALLATION. AS-BUILT SET OF DRAWINGS SHALL BE AVAILABLE AT ALL TIMES ON THE SITE FOR INSPECTION BY CODE OFFICIALS, OWNER, ARCHITECT, AND ENGINEER.

D. PROTECT ALL EXISTING WORK FROM DAMAGE DURING CONSTRUCTION.

E. DESIGN IS BASED ON BEST AVAILABLE INFORMATION. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS TO DETERMINE STATUS OF ACTUAL CONDITIONS AS THEY RELATE TO THE SCOPE OF WORK AS SHOWN ON THESE PLANS.

F. COORDINATE ALL ELECTRICAL WORK WITH ALL OTHER TRADES.

G. COORDINATE EXACT LOCATION AND MOUNTING HEIGHTS OF ALL ELECTRICAL EQUIPMENT AND DEVICES WITH THE ARCHITECTURAL ELEVATIONS AND DETAILS PRIOR TO ROUGH-IN.

H. DEMOLITION WORK IS A PART OF THIS PROJECT. SEE DRAWINGS FOR EXISTING ELECTRICAL DEVICES TO BE REMOVED. REMOVE ASSOCIATED BOXES, RACEWAYS AND CONDUCTORS BACK TO SOURCE, AND MAKE SAFE.

I. ALL MATERIALS AND EQUIPMENT FURNISHED TO THE PROJECT SHALL BE NEW AND SHALL BEAR THE LISTING LABEL OF A NATIONALLY RECOGNIZED TESTING LAB AS DEFINED BY OSHA.

J. ALL ELECTRICAL DEVICES AND TERMINALS SHALL BE RATED 75°C MINIMUM.

K. ALL CONDUCTORS SHALL BE STRANDED COPPER, 600 VOLT RATED. INSULATION TYPE SHALL BE THHN/THWN, FULLY COLOR CODED WITH GAUGE, TYPE AND MANUFACTURER MARKED EVERY 24" ALONG. CONDUCTOR COLOR CODE SHALL BE AS FOLLOWS:

208Y/120 VOLT SYSTEM		480Y/277 VOLT SYSTEM	
PHASE A	- BLACK	PHASE A	- BROWN
PHASE B	- RED	PHASE B	- ORANGE
PHASE C	- BLUE	PHASE C	- YELLOW
NEUTRAL	- WHITE	NEUTRAL	- GRAY
GROUND	- GREEN	GROUND	- GREEN

L. MINIMUM SIZE WIRE FOR POWER AND LIGHTING CIRCUITS SHALL BE #12 AWG. ALL POWER AND LIGHTING CONDUCTORS SHALL BE ROUTED IN 3/4" CONDUIT MINIMUM.

M. EMT OR MC TYPE CABLE IS ALLOWED WHEN CONCEALED IN INTERIOR SPACES. MC TYPE CABLE IS NOT ALLOWED FOR HOMERUNS.

N. MAKE ALL CONNECTIONS TO EQUIPMENT PER MANUFACTURER'S REQUIREMENTS.

O. ALL EQUIPMENT, SWITCHING DEVICES AND PANELS SHALL BE MOUNTED SO AS TO BE ACCESSIBLE AND SHALL BE MOUNTED PLUMB AND SQUARE WITH WALLS.

P. DEVICES AND RACEWAYS PENETRATING FIRE RATED WALLS AND FLOORS SHALL BE SEALED WITH FIRE RESISTIVE MATERIAL, COMPATIBLE WITH CONSTRUCTION PENETRATED, TO MAINTAIN RATING OF THE WALL. SEALANT SYSTEM SHALL BE A U.L. APPROVED SYSTEM AND INSTALLED PER MANUFACTURER'S INSTRUCTIONS.

Q. FURNISH AND INSTALL PULL CORD IN ALL EMPTY CONDUITS.

R. ALL JUNCTION BOX COVERS WITH POWER WIRING SHALL HAVE THE PANEL AND CIRCUIT LABELED ON THE OUTSIDE SURFACE. ALL LABELS FOR EXPOSED JUNCTION BOXES IN "FINISHED AREAS" SHALL BE LABELED UTILIZING SELF ADHESIVE LABELS PRODUCED BY A MECHANICAL LABELING MACHINE. LABELS FOR JUNCTION BOX COVERS IN CONCEALED LOCATIONS SHALL CONSIST OF THE INFORMATION BEING NEATLY HANDWRITTEN ON THE OUTSIDE SURFACE OF THE COVER WITH A PERMANENT STYLE MARKER.

S. CLEARLY LABEL ALL ACCESSIBLE CONDUIT STUBS WITH SYSTEM NAME AND LOCATION (ROOM NUMBER) WHERE THE OTHER END OF THE CONDUIT TERMINATES. USE INDELIBLE INK. THE LABELS SHALL BE LOCATED ON THE CONDUIT IN A POSITION THAT CAN BE EASILY READ.

T. ALL 1 POLE BREAKER CIRCUITS SHALL HAVE AN INDEPENDENT NEUTRAL CONDUCTOR. NO EDISON STYLE SHARED NEUTRAL CONDUCTORS ARE ALLOWED.

U. ALL CONDUCTORS IN ELECTRICAL PANELS, CABINETS AND EQUIPMENT SHALL BE NEATLY TRAINED AND LACED.

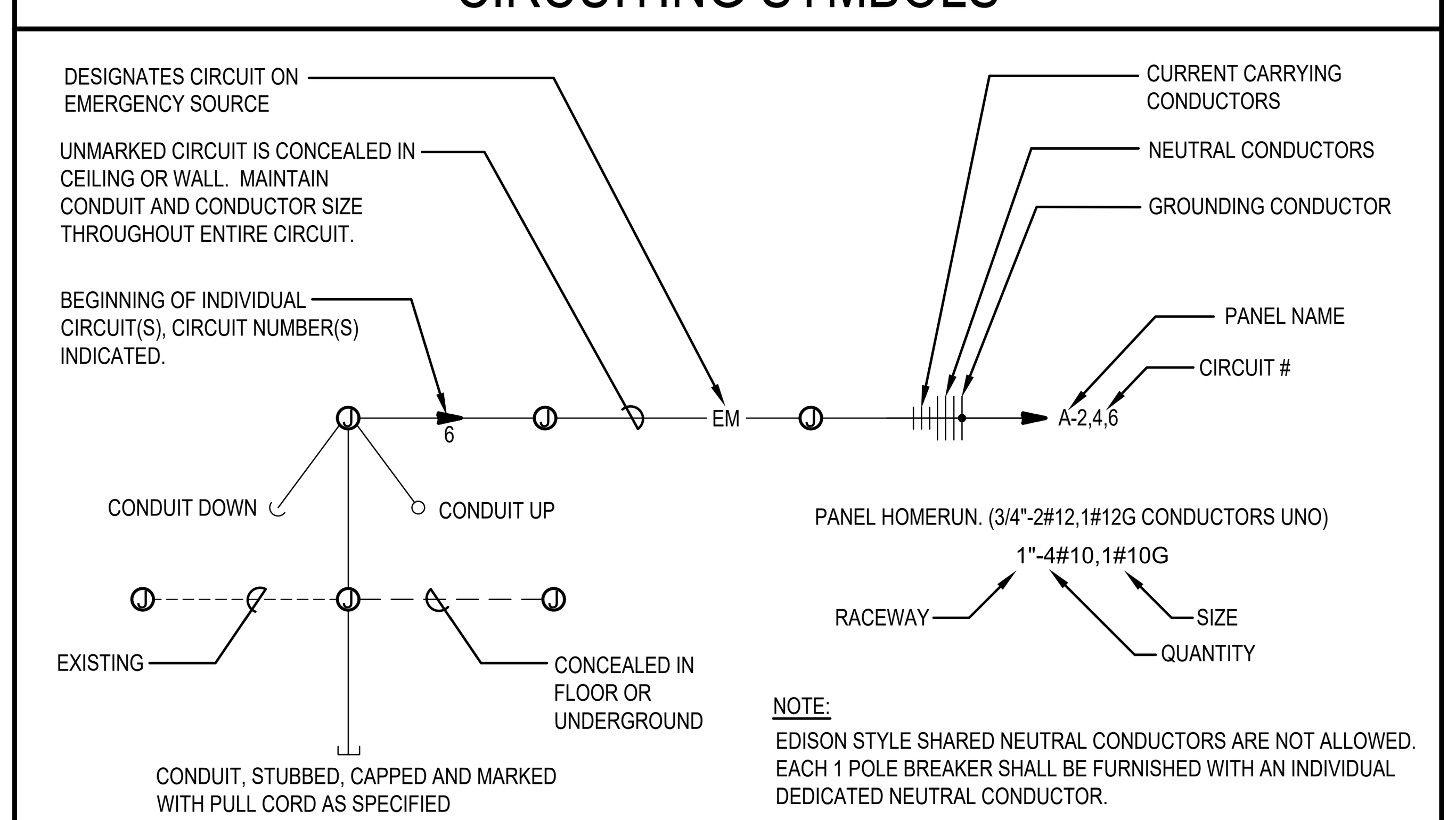
V. THE CONTRACTOR SHALL PROVIDE UPDATED CIRCUIT PANEL DIRECTORIES FOR ALL PANELS. DIRECTORIES SHALL BE TYPED.

W. PROVIDE ELECTRICAL SUBMITTALS FOR EQUIPMENT SHOWN AS REQUIRED BY DIVISION 1 SPECIFICATIONS.

X. ELECTRICAL CONTRACTOR SHALL OBTAIN THE AVAILABLE FAULT CURRENT VALUE FROM THE LOCAL UTILITY OR THE ONE-LINE DIAGRAM AND LABEL THE MAIN BREAKER WITH THAT VALUE.

Y. SWITCH AND RECEPTACLE LABELING: IDENTIFY PANELBOARD AND CIRCUIT NUMBER FROM WHICH DEVICES ARE SERVED. USE MACHINE PRINTED LABEL AND 1/8" TEXT. INSTALL ON THE OUTSIDE OF THE FACEPLATE FOR RECEPTACLES AND INSIDE THE FACEPLATE FOR SWITCHES.

CIRCUITING SYMBOLS



NOTE:
EDISON STYLE SHARED NEUTRAL CONDUCTORS ARE NOT ALLOWED. EACH 1 POLE BREAKER SHALL BE FURNISHED WITH AN INDIVIDUAL DEDICATED NEUTRAL CONDUCTOR.

NOTE: THIS IS A STANDARD LIST OF COMMONLY USED ELECTRICAL SYMBOLS. SOME OF THE SYMBOLS SHOWN MAY NOT HAVE BEEN USED IN THIS DRAWING PACKAGE.

MUSGROVE ENGINEERING, P.A.
234 S. Whisperwood Way
Boise, Idaho 83709
208.384.0585
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OVER 40 YEARS OF EXCELLENCE
Project No: 23-141

THE LAND GROUP

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BOISE STATE UNIVERSITY

1910 UNIVERSITY DRIVE
BOISE, IDAHO 83725

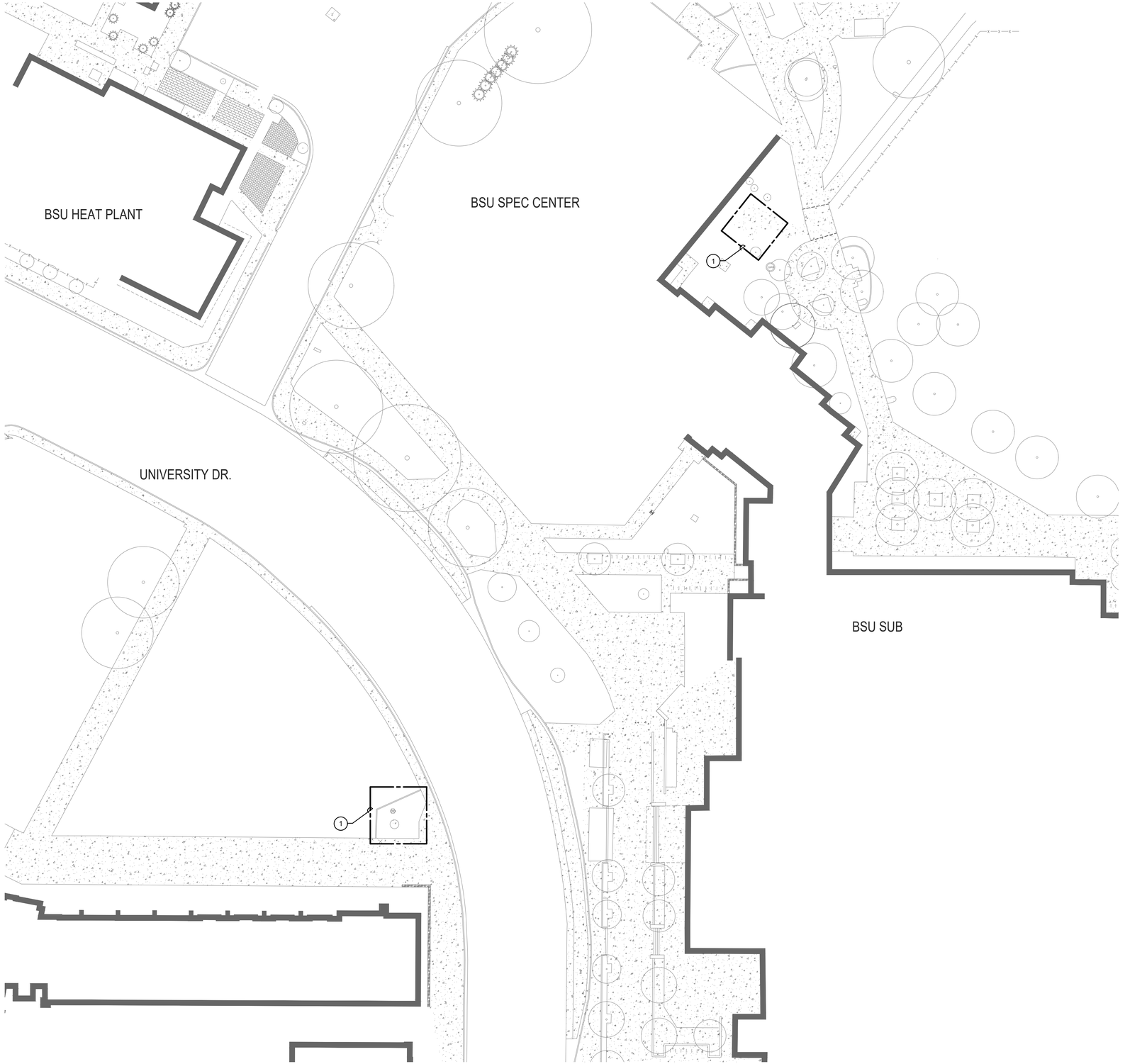
Revisions
1.

PROFESSIONAL ENGINEER REGISTERED 12731 3/27/2024 STATE OF IDAHO NICK SCHAPER

Project No.: 118145
Date of Issuance: 04/29/2024
Project Milestone: Permit Set Documents

ELECTRICAL COVER

E0.00



PUMP TO DISCHARGE ELECTRICAL SITE PLAN

Horizontal Scale: 1" = 30'

0 30' 60'

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Date Plotted: Wednesday, March 27 2024 at 05:58 PM

MUSGROVE ENGINEERING, P.A.
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208.384.0585
www.musgrovepa.com
OVER 40 YEARS OF EXCELLENCE

Project No. 23-141

THE LAND GROUP

KEYED NOTES:

(#) SYMBOL USED FOR NOTE CALLOUT.

1. REMOVE ALL EXISTING ELECTRICAL HARDWARE ASSOCIATED WITH IRRIGATION SYSTEM EQUIPMENT LOCATED IN THIS AREA.REMOVE ALL CONDUIT, CONDUCTORS, AND JUNCTION BOXES BACK TO SOURCE OR NEAREST UPSTREAM DEVICE THAT IS TO REMAIN. MAINTAIN CONTINUITY TO ALL DOWNSTREAM DEVICES THAT ARE TO REMAIN.

SOUTH CAMPUS PRESSURIZED IRRIGATION
BOISE STATE UNIVERSITY

1910 UNIVERSITY DRIVE
BOISE, IDAHO 83725

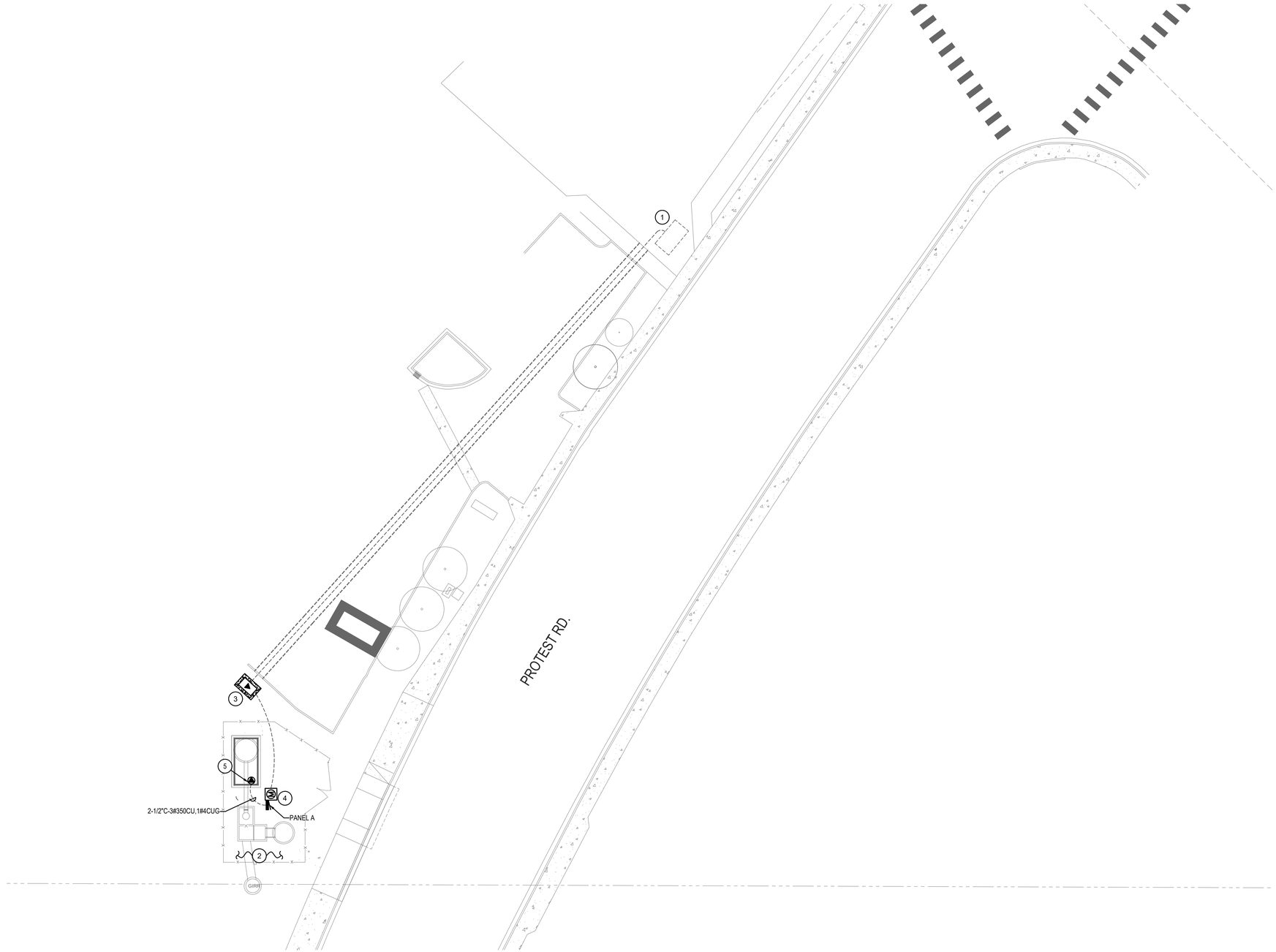
Revisions
1.

PROFESSIONAL ENGINEER REGISTERED 12731 3/27/2024 STATE OF IDAHO NICK SCHAPER

Project No.: 118145
Date of Issuance: 04/29/2024
Project Milestone: Permit Set Documents

ELECTRICAL SITE PLAN

E1.00



INLET TO JUNCTION ELECTRICAL SITE PLAN

Horizontal Scale: 1" = 20'

0 20' 40'

KEYED NOTES:

(#) SYMBOL USED FOR NOTE CALLOUT.

1. EXISTING IDAHO POWER PROVIDED DISTRIBUTION SWITCH.
2. REMOVE ALL EXISTING ELECTRICAL EQUIPMENT LOCATED IN THE FENCED OFF AREA THAT WAS ASSOCIATED WITH THE EXISTING IRRIGATION EQUIPMENT AND RETURN TO OWNER.
3. PAD MOUNTED TRANSFORMER AND BY IDAHO POWER COMPANY. REFER TO THE ELECTRICAL ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION. COORDINATE WITH IDAHO POWER FOR NEW SERVICE INSTALLATION THROUGH BOISE STATE UNIVERSITY.
4. METER, METER BASE AND SERVICE ENTRANCE RATED PANELBOARD TO BE MOUNTED ON A UNISTRUT STAND. REFER TO THE ELECTRICAL ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION. FIELD COORDINATE LOCATION FOR STAND WITH PUMP EQUIPMENT AND EXISTING CONDITIONS ON SITE.
5. PROVIDE ELECTRICAL CONNECTION FOR NEW PUMP SYSTEM CONTROL PANEL. CONTROL PANEL PROVIDED BY PUMP MANUFACTURER WITH SINGLE POINT CONNECTION AT A 300A RATED DISCONNECTING MEANS. COORDINATE CONNECTION REQUIREMENTS WITH EQUIPMENT PROVIDER.

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E1.10

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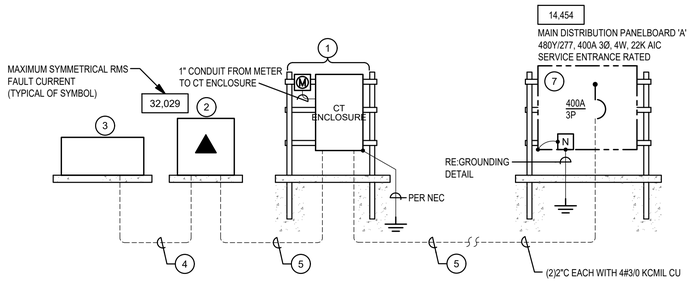


ONE LINE DIAGRAM
NTS

GENERAL NOTES:

A. CONDUIT, CONDUCTORS AND AIC CALCULATIONS FOR ALL SERVICE, PANEL AND EQUIPMENT FEEDERS INDICATED ON THE ONE-LINE HAVE BEEN SIZED BASED ON COPPER. THE CONTRACTOR MAY USE COMPRESSED ALUMINUM CONDUCTORS FOR THESE FEEDERS PROVIDING THE CONDUIT, CONDUCTOR SIZES AND AIC CALCULATIONS ARE ADJUSTED AS REQUIRED TO MEET ALL NATIONAL ELECTRICAL CODE REQUIREMENTS.

B. FURNISH AND INSTALL ENGRAVED LABEL ON THE FRONT OF THE MAIN SERVICE EQUIPMENT NOTING THE AVAILABLE FAULT CURRENT VALUE SHOWN.

KEYED NOTES:

(#) SYMBOL USED FOR NOTE CALLOUT.

1. CT ENCLOSURE WITH HINGED DOORS. COORDINATE EXACT REQUIREMENTS WITH UTILITY COMPANY PRIOR TO BEGINNING WORK. PROVIDE METER BASE AND 1" CONDUIT BETWEEN METER BASE AND CT ENCLOSURE. ELECTRICAL CONTRACTOR SHALL INSTALL CT ENCLOSURE AND CT METER BASE ON STRUT. SECURE STRUT WITH CONCRETE BASES AND AS DIRECTED BY LOCAL UTILITY COMPANY. GROUND STRUT AS REQUIRED. COORDINATE THIS WORK WITH LOCAL UTILITY COMPANY PRIOR TO BEGINNING WORK.
2. NEW PAD MOUNTED TRANSFORMER AND CONCRETE PAD BY UTILITY COMPANY. REFER TO THE ELECTRICAL SITE PLAN FOR ADDITIONAL INFORMATION.
3. EXISTING PAD MOUNT SWITCH BY UTILITY COMPANY. REFER TO THE ELECTRICAL SITE PLAN FOR ADDITIONAL INFORMATION.
4. CONDUIT AND CONDUCTORS FROM EXISTING SWITCH TO NEW PAD MOUNTED TRANSFORMER BY UTILITY COMPANY. COORDINATE INSTALLATION WITH UTILITY COMPANY.
5. CONDUIT AND CONDUCTORS FROM NEW PAD MOUNTED TRANSFORMER TO NEW CT ENCLOSURE BY UTILITY COMPANY. COORDINATE INSTALLATION WITH UTILITY COMPANY.
6. SECONDARY CONDUIT AND CONDUCTORS BY ELECTRICAL CONTRACTOR. CONTRACTOR SHALL BE RESPONSIBLE FOR TRENCHING. REFER TO THE CIVIL DRAWINGS AND ELECTRICAL SITE PLAN FOR ADDITIONAL INFORMATION.
7. INSTALL NEMA-3R LOCKABLE SERVICE PANEL ON STRUT RACK WITHIN 20 OF SKID MOUNTED PUMPS. SECURE STRUT TO CONCRETE BASES AS REQUIRED.

PANEL: A — PROJECT: CAMPUS GRAVITY IRRIGATION MASTER PLAN

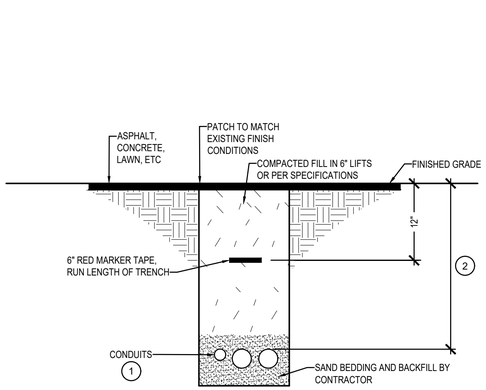
VOLTAGE: 480 / 277 V	3 PH	4 WIRE	AMPERE RATING: 400A	WITH 400A CB	MOUNTING: SURFACE
BASIS OF DESIGN PANEL TYPE:			NEMA ENCLOSURE TYPE: 3R		PANEL AIC RATING: 10000 A.C.

CKT NOTES:
1. GFCI FOR PERSONNEL PROTECTION (5mA)
2. GFEP FOR EQUIPMENT PROTECTION (30mA)
3. AFCI COMBINATION STYLE BREAKER
4. RED HANDLE, LOCKABLE BREAKER
5. EXISTING BREAKER

REMARKS:

CKT	DESCRIPTION	CKT NOTE	LOAD VA	LOAD AMPS	AMPS/ POLES		LOAD (VA) A	LOAD (VA) B	LOAD (VA) C	AMPS/ POLES		LOAD AMPS	LOAD VA	CKT NOTE	DESCRIPTION	CKT
1	PUMP SKID CONTROL PANEL		66480	239.9	300	3	66480								RESERVED SPACE	2
3	***		66480	239.9	**	*		66480							RESERVED SPACE	4
5	***		66480	239.9	**	*			66480						RESERVED SPACE	6
7	SPARE			0.0	20	1	0			20	3	0.0			SPARE	8
9	SPARE			0.0	20	1		0		**	*	0.0			**	10
11	SPARE			0.0	20	1			0	**	*	0.0			**	12
							66480.0	66480.0	66480.0	VA						
							240.0	240.0	240.0	AMPS						

2E+05 TOTAL VA

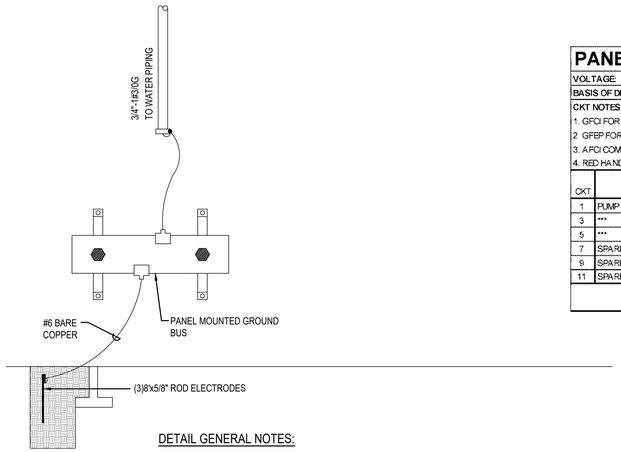


DETAIL NOTES:

(#) SYMBOL USED FOR NOTE CALLOUT.

1. IF MULTIPLE CONDUITS SHARE TRENCH, PROVIDE SPACING BETWEEN CONDUITS. PROVIDE ZIP TIES, AND TIE ALL CONDUITS TOGETHER TO ENSURE STABILITY.
2. BURIAL DEPTH TO BE VERIFIED WITH UTILITIES AND AUTHORITY HAVING JURISDICTION:
   ELECTRICAL FEEDERS, COMMUNICATIONS: 24" MINIMUM
   UNDERGROUND SECONDARY: 30" MINIMUM
   UNDERGROUND PRIMARY: 42" MINIMUM

SITE TRENCHING DETAIL
NTS



DETAIL GENERAL NOTES:

A. ALL CONDUCTORS SHALL BE IN EMT CONDUIT UNLESS NOTED OTHERWISE. ALL CONDUIT SHALL HAVE A GROUNDING BUSHING AT EACH END.
B. ALL CONNECTIONS SHALL BE EXOTHERMIC WELD, LISTED PRESSURE CONNECTORS, LISTED CLAMPS OR OTHER LISTED MEANS.
C. PROVIDE BONDING OF GAS PIPING PER NEC 250.104(B)(1).

GROUNDING DETAIL
NTS

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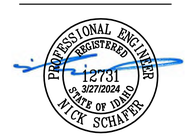

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ELECTRICAL DETAILS

E2.00

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