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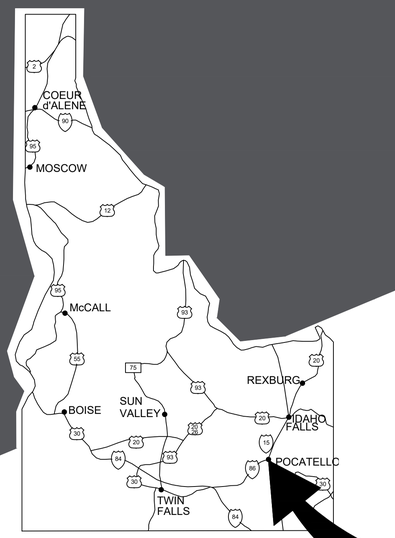
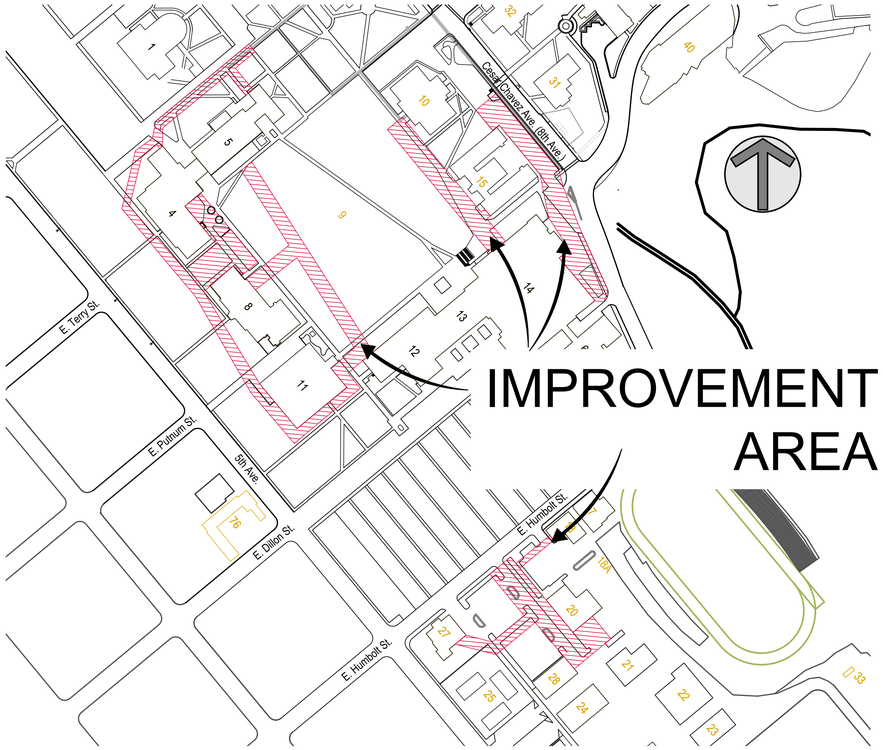
DPW PROJECT 24-246
ISU: REPAIR UTILITY TUNNEL, PHASE 3
IDAHO STATE UNIVERSITY
POCATELLO



PROJECT LOCATION

C1 VICINITY MAP
N.T.S.



IMPROVEMENT AREA

A1 LOCATION MAP
N.T.S.

CONTACTS

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DIVISION OF PUBLIC WORKS
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CONSTRUCTION APPROVAL BY RESPONSIBLE CHIEF OFFICER OF INSTITUTION OR AGENCY

(IDAHO CODE 67-5710)

Final Plans & Specs have been Reviewed for:
2024246 ISU: Repair Utility Tunnel, Ph 2

DPW Project No.
2024246

This project incorporates the required program elements within the funding limitations authorized, and authorize the Division of Public Works to proceed with bidding of the project. If acceptable bids are received, I will approve awarding a contract and construction of the facilities in accordance with the plans and specifications.

Idaho State University

Agency Signature Authority:
Mark Anderson

Approval — Approved

	Name or Role	
1.	Agency - Signature Authority	Approved Mark Andersen Aug 22, 2025 04:14 PM MST
2.	Project Manager	Approved Gary Groff Aug 25, 2025 09:24 AM MST
3.	Project Manager Senior	Approved Nicole Cecil (SR PM) Aug 25, 2025 09:26 AM MST
4.	DPW Administrator	Approved Dale Reynolds Aug 25, 2025 12:27 PM MST

Know what's **below.**
Call before you dig.

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PROFESSIONAL ENGINEER
LICENSE
15381
8/27/2025
STATE OF IDAHO
MATTHEW B. HILL

NO.	REVISIONS	DATE

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DPW PROJECT #24-246SC
ISU: REPAIR UTILITY TUNNEL, PHASE 3

IDAHO STATE UNIVERSITY

TITLE SHEET

DRAWN: KJW CHECK: MBH

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO.
208106-119

SHEET NO.
G-001

J:\208106-119 ISU REPLACE UTILITY TUNNEL, PHASE 3\C_DESN_CAD\3_DESIGN\D_PLANS-1\G-001.DWG LAST SAVED: 8/26/2025 9:24 AM PRINTED: 8/26/2025 9:27 AM

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GENERAL NOTES

1. FOR ALL OF THE UTILITY LOCATES CONTRACTOR SHALL CALL DIG-LINE AT 1-800-342-1585 TO LOCATE ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION AND SHALL NOTIFY ENGINEER OF ANY CONFLICTS BETWEEN UTILITIES AND PLANS. FOR LOCATES OF IDAHO STATE UNIVERSITY UTILITIES CALL ISU AT 208-282-4710. CONTRACTOR TO HIRE A PRIVATE UTILITY LOCATES FIRM TO LOCATE CAMPUS OWNED UTILITIES IF ISU IS NOT ABLE TO LOCATED AND MARK.
2. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE SPECIFICATIONS.
3. A PRE-CONSTRUCTION MEETING WILL BE HELD PRIOR TO COMMENCEMENT OF WORK, ALL CONTRACTORS, SUBCONTRACTORS, AND/OR UTILITY CONTRACTORS, REQUIRED AGENCY PERSONNEL, AND THE OWNER'S ENGINEER SHALL BE PRESENT.
4. THE CONTRACTOR SHALL REMOVE ALL OBSTRUCTIONS, BOTH ABOVE AND BELOW GROUND, AS REQUIRED FOR THE CONSTRUCTION OF THE PROPOSED IMPROVEMENTS.
5. 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 THE CONSTRUCTION AREA AND IMPLEMENTATION OF THE TRAFFIC CONTROL PLAN. CONSTRUCTION/SAFETY FENCING SHOULD BE PORTABLE 6-FOOT TALL CHAIN LINK AND SUPPORTED BY T-POSTS OR WEIGHTED BASES. TEMPORARY CONSTRUCTION FENCING NEEDS TO BE SECURE WITH LOCKABLE GATES.
6. ALL MATERIALS FURNISHED 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 THESE REQUIREMENTS AT THE REQUEST OF THE AGENCY, THE ENGINEER, AND OWNER.
7. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES KNOWN & UNKNOWN BEFORE COMMENCING WORK. CONTRACTOR AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES THAT MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.
8. ALL CONTRACTORS WORKING WITHIN THE PROJECT BOUNDARIES SHALL NOTIFY DEPARTMENT OF PUBLIC WORKS AND IDAHO STATE UNIVERSITY OF ANY TESTING AND ANY UTILITY INTERRUPTIONS OR PLANNED OUTAGES AT LEAST 48 HOURS PRIOR TO ANY CONSTRUCTION.
9. ALL COSTS TO THE CONTRACTOR INCURRED IN CORRECTING DEFICIENT WORK SHALL BE TO THE CONTRACTOR'S ACCOUNT.
10. WORK SUBJECT TO APPROVAL BY ANY AGENCY MUST BE INSPECTED AND APPROVED PRIOR TO (A) PLACING OF CONCRETE, (B) PLACING OF AGGREGATE BASE, (C) PLACING OF ASPHALT PAVING, AND (D) BACKFILLING TRENCHES FOR PIPE. WORK DONE WITHOUT SUCH APPROVAL SHALL NOT RELIEVE THE CONTRACTOR FROM THE RESPONSIBILITY OF PERFORMING THE WORK IN AN ACCEPTABLE MANNER.
11. ALL MATERIAL PLACED AS FILL OR BACKFILL SHALL BE PLACED AND COMPACTED IN ACCORDANCE WITH THE SPECIFICATIONS.
12. MISCELLANEOUS SMALL STRUCTURES SUCH AS FENCING, SIGNS, PARKING CURB STOPS, IRRIGATION AND DRAINAGE FACILITIES, UTILITY POLES, LINES, AND APPURTENANCES, WHEN NECESSARY TO REMOVE OR DISTURB, SHALL BE REPLACED OR RECONSTRUCTED TO EQUAL OR BETTER THAN THEIR CONDITION PRIOR TO DISTURBANCE AT CONTRACTOR'S EXPENSE.
13. WHEN DISCREPANCIES OCCUR BETWEEN SPECIFICATIONS, OR SHEETS IN THE PLANS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER. UNTIMELY NOTIFICATION SHALL NEGATE ANY CONTRACTOR'S CLAIM FOR ADDITIONAL COMPENSATION.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING SOURCES FOR GRANULAR MATERIALS, WATER, WASTE SITES, AND ANY OTHER MATERIALS SOURCED AS REQUIRED FOR PROJECT COMPLETION.
15. CONTRACTOR SHALL PROVIDE & RETAIN EVIDENCE OF ALL PERMITS PERTAINING TO THE CLEARING AND GRUBBING OF THE SITE.
16. OWNER WILL HIRE A MATERIALS TESTING FIRM TO PROVIDE ALL TESTING NECESSARY TO COMPLY WITH THE REQUIREMENTS OF THE CITY AND/OR SPECIFICATIONS. SUCH TESTS SHALL BE SUBMITTED TO THE ENGINEER.
    SPECIAL INSPECTION IS REQUIRED PER IBC 2015 CHAPTER 17 FOR THE FOLLOWING CONSTRUCTION:
    - PERIODIC INSPECTION FOR REINFORCING STEEL AND PLACEMENT
    - PERIODIC INSPECTION OF ANCHORS CAST IN CONCRETE AND POST INSTALLED ANCHORS.
    - CONTINUOUS INSPECTION DURING CONCRETE POURS, SAMPLING OF TEST SPECIMENS, STRENGTH TESTS, SLUMP AND AIR.
17. THE CONTRACTOR SHALL COORDINATE ALL INSPECTIONS WITH THE ENGINEER OF RECORD AND IDAHO STATE UNIVERSITY. THE ENGINEER AND UNIVERSITY SHALL BE NOTIFIED TO INSPECT: 1) REBAR, 2) FILL MATERIAL, STRUCTURAL AND NON-STRUCTURAL.
18. ACCEPTANCE OF ALL IMPROVEMENTS BY THE OWNER SHALL CONSTITUTE SUBSTANTIAL COMPLETION OF THIS PROJECT.
19. WITHIN 2 WEEKS AFTER THE COMPLETION OF WORK, THE CONTRACTOR SHALL SUBMIT A SET OF AS-BUILT PLANS TO THE ENGINEER.
20. ISU IS A SMOKE-FREE CAMPUS. SMOKING IS PROHIBITED ON ALL PROPERTY WHOLLY OWNED, LEASED OR OPERATED BY ISU.
21. ISU IS A GUN-FREE CAMPUS. GUNS ARE PROHIBITED ON ALL PROPERTY WHOLLY OWNED, LEASED OR OPERATED BY ISU.
22. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN APPLICABLE PARKING PERMITS FOR ALL CONTRACTOR OWNED VEHICLES ON CAMPUS. PARKING PERMITS MAY BE OBTAINED FROM THE ISU DEPARTMENT OF PUBLIC SAFETY.
23. **CONTRACTOR IS RESPONSIBLE FOR COST TO REPAIR / REPLACE ANY CUT OR DAMAGED UTILITIES.**
24. EXISTING A.C. PAVEMENT SHALL BE CUT TO A NEAT STRAIGHT LINE PARALLEL OR PERPENDICULAR TO THE STREET CENTERLINE.
25. SAWCUTS OF PAVEMENT AND CONCRETE SHALL REQUIRE WATER FOR DUST CONTROL.
26. CONTRACTOR TO KEEP EXISTING COMMUNICATION AND POWER LINES IN TUNNEL FREE AND CLEAR OF DEBRIS..
27. **CONTRACTOR TO PROVIDE COVER/PROTECTION FOR ANY EXISTING HIGH VOLTAGE LINES WITHIN THE TUNNEL IN TRAYS OR LOOSE (NOT IN TRAYS) 5-FEET MINIMUM PAST END OF CONSTRUCTION.**
28. **CONTRACTOR CAN OBTAIN DRAWING CAD FILES OF THIS PROJECT FROM KELLER ASSOCIATES FOR PURPOSES RELATED TO CONSTRUCTION AND CONSTRUCTION STAKING.**

IRRIGATION

1. PROVIDE REGULAR AND ADEQUATE SUPPLEMENTAL AND/OR ALTERNATIVE IRRIGATION IF DOWN MORE THAN 7 DAYS TO ALL TURF AND PLANT LIFE AFFECTED BY WORK OPERATIONS THE ENTIRE COURSE OF THE WORK.
2. RESTORE ALL LANDSCAPE DISTURBED BY CONSTRUCTION ACTIVITY TO PRIOR CONDITION OR BETTER. ADJUST IRRIGATION SYSTEM TO MATCH FINISHED CONDITIONS.
3. LAY OUT IRRIGATION HEADS AND MAKE ANY MINOR ADJUSTMENTS REQUIRED DUE TO DIFFERENCES BETWEEN ACTUAL SITE CONDITIONS AND THE DRAWINGS. ANY DEVIATION IN LAYOUT SHALL BE WITHIN THE INTENT OF THE DRAWINGS AND APPROVED BY THE ENGINEER.
4. LAY OUT ALL IRRIGATION EQUIPMENT USING AN APPROVED STAKING METHOD AND MAINTAIN THE STAKING OF APPROVED LAYOUT. ALL LAYOUTS SHALL BE APPROVED BY THE ENGINEER AND OWNER PRIOR TO EQUIPMENT INSTALLATION.
5. TAKE ALL REASONABLE INVESTIGATIVE ACTION AND PRECAUTIONS WHEN WORKING AROUND ANY UTILITY SYSTEM.
6. ROUTING OF IRRIGATION LINES AS INDICATED ON DRAWINGS IS DIAGRAMMATIC. INSTALL LINES AND VARIOUS ASSEMBLIES TO CONFORM TO ACTUAL SITE CONDITIONS. WHENEVER POSSIBLE, PLACE ALL IRRIGATION EQUIPMENT IN PLANTED AREAS. IRRIGATION ELEMENTS DRAWN IN HARDSCAPE AREAS ON THE PLANS IS FOR GRAPHIC CLARITY ONLY AND IS MEANT TO BE PLACED IN PLANTED AREAS.
7. ALL PVC PIPING SHALL BE SCHEDULE 40 WITH MATCHING FITTINGS.
8. INSTALL ALL ASSEMBLIES SPECIFIED HEREIN ACCORDING TO THE RESPECTIVE DETAIL DRAWINGS OR AS SPECIFIED USING THE BEST STANDARD PRACTICES WITH PRIOR APPROVAL.
9. ALL LINES SHALL HAVE A MINIMUM CLEARANCE OF 6 INCHES HORIZONTALLY FROM EACH OTHER AND 24 INCHES FROM OTHER UTILITIES.
10. DIG TRENCHES AND SUPPORT PIPE DIRECTLY ON BOTTOM OF TRENCH. ALL TRENCHES TO BE STRAIGHT AND ALIGNED GENERALLY WITH WALKS, STREETS, AND BUILDINGS. LAY PIPE AT AN EVEN GRADE.
11. PROVIDE MINIMUM PIPE COVER AS FOLLOWS:

PRESSURE MAINLINES 3" OR GREATER	20"
PRESSURE MAINLINES LESS THAN 3"	18"
NON-PRESSURE LATERAL LINES	18"
CONTROL WIRING	18"

12. INITIAL BACKFILL ON ALL LINES TO BE FINE GRANULAR MATERIAL NOT LARGER THAN 3/8" MATERIAL.
13. UNDER NO CIRCUMSTANCES SHALL VEHICLE WHEELS BE USED FOR COMPACTING SOIL.
14. AFTER ALL IRRIGATION PIPE AND RISERS ARE IN PLACE AND CONNECTED, AND PRIOR TO INSTALLATION OF IRRIGATION HEADS AND CONTROL VALVES, APPLY FULL HEAD OF WATER TO FLUSH OUT SYSTEM.
15. SPRINKLER HEADS AND ALL REMOTE CONTROL VALVES (RCV) SHALL BE INSTALLED ONLY AFTER FLUSHING OF THE SYSTEM HAS BEEN COMPLETED TO THE COMPLETE SATISFACTION OF THE ENGINEER AND OWNER.
16. PIPING UNDER EXISTING PAVEMENT MAY BE INSTALLED BY JACKING, BORING, OR HYDRAULIC DRIVING.
17. ALL NEW REMOTE CONTROL VALVES SHALL BE 2" UNLESS OTHERWISE NOTED. WIRING AS PER PLAN
18. RUN (2) SPARE CONTROL AND (1) COMMON CONTROL WIRES MINIMUM FOR EACH GROUPING OF 3 OR MORE NEW REMOTE CONTROL VALVES UNLESS NOTED OTHERWISE.
19. ALL POINTS-OF-CONNECTION TO INCLUDE A FILTER SCREEN, A PRESSURE REDUCING VALVE, A BACKFLOW ASSEMBLY, ISOLATION VALVES, AND QUICK COUPLER VALVES AS SHOWN.
20. APPROVED MODIFICATIONS / ADJUSTMENTS FROM INDICATED PIPE SIZES SHALL BE SIZED AS FOLLOWS:

MAX FLOW	PIPE SIZE
9 GPM	1"
16 GPM	1.25"
22 GPM	1.5"
37 GPM	2"
52 GPM	2.5"

21. ALL BELOW GRADE ELECTRICAL CONNECTIONS SHALL BE IN 10" OR LARGER VALVE BOXES.
22. SUPPORT ALL PIPING IN ACCESSIBLE VAULTS WITH ADJUSTABLE PIPE SUPPORTS TO SUPPORT WEIGHT OF MAINTENANCE PERSONNEL STANDING ON PIPE.
23. WHEN CONNECTING A NEW SUPPLY TO AN EXISTING SYSTEM, FLUSH ENTIRE SYSTEM, TEST TO ENSURE PROPER OPERATION, CLEAN AND ADJUST AS NECESSARY.
19. ALL IRRIGATION CONTROL WIRE SPLICES TO BE MADE WITH APPROVED WATER PROOF WIRE SPLICE KIT AND HOUSED IN AN APPROVED IRRIGATION BOX. NO DIRECT BURY OF WIRE SPLICES ALLOWED.

IDAHO STATE UNIVERSITY PARTS AND STANDARD PRACTICES (OR APPROVED EQUAL BY ENGINEER AND ISU)

1.	WIRE:	HUNTER ID1BLU DECODER WIRE (14 AWG TWISTED PAIR) (RUN EXTRA SET OF WIRES FOR EACH WIRE RUN)
2.	DECODERS: WIRE RUN)	HUNTER ICD-100 (RUN EXTRA SET OF WIRES FOR EACH
3.	WIRE CONNECTORS:	HUNTER DBRY-6 WATTERPROOF WIRE CONNECTORS
4.	CONTROLLERS:	IRRITROL MC-E SERIES
5.	ELECTRIC VALVES:	HUNTER ICV 1" - 3"
6.	SPRAY HEADS:	TORO 570Z SERIES
7.	ROTORS:	HUNTER PGJ, I-20, I-25, 1-90
8.	QUICK COUPLING VALVES:	RAIN BIRD 2 PIECE 3/4" 1"
9.	QUICK COUPLING VALVES:	RAIN BIRD 1 PIECE 1 1/4"
10.	PIPE:	SCHEDULE 40 PVC (1" MINIMUM)
11.	DRIP LINE:	NETAFIM (ONLY IF NECESSARY)
12.	DESIGN:	WATER IN IRRIGATION LINES SHALL NOT EXCEED 5.2 FPS.

13. PIPE TO BE INSTALLED IN STRAIGHT RUNS WITHOUT BENDING OF THE PIPE. TRENCHES SHALL BE CUT IN STRAIGHT LINES TO ENSURE PIPE IS NOT BEING BENT. TRENCH DEPTH SHALL BE DUG AT MINIMUM OF 16" AND NOT TO EXCEED 20" MAXIMUM. ONE PIPE INSTALLED PER TRENCH OR A MINIMUM OF 6" SPACING BETWEEN PIPES SIDE BY SIDE. PIPE SHOULD NOT BE STACKED ON TOP OF EACH OTHER IN TRENCHES.
14. DIRECT BURY WIRE SHALL BE CABLED TOGETHER WITH TIES OR ELECTRICAL TAPE. WIRE SHALL BE PLACED NEXT TO PIPE AND SHOULD NOT RUN ON TOP OF ANY PIPE. EXTRA WIRES SHOULD BE PROVIDED AS PER PLAN.
15. DRIP ZONES SHALL HAVE PRESSURE REGULATORS OR REDUCER AND FILTERS INSTALLED. INSTALL BLOW-OUT HEAD AT THE END OF EACH DRIP LINE OR ZONE (DRIP ZONES NOT RECOMMENDED UNLESS NECESSARY)
16. ROTORS AND SPRAY HEADS SHALL BE INSTALLED ON SWING JOINTS .
17. INSTALL CONCRETE THRUST BLOCKS AT ALL CHANGES OF DIRECTION 45 DEGREES OR GREATER AN ALL MAINLINES 2" OR GREATER.
18. SPRINKLER HEADS AND ALL VALVES SHALL BE INSTALLED ONLY AFTER THOROUGH WATER FLUSHING OF THE SYSTEM IS COMPLETE.
19. PIPES ARE TO BE BEDDED AND COVERED WITH GRANULAR MATERIAL NO LARGER THAN 3/8" IN DIAMETER. TRENCHES SHOULD BE WATER SETTLED.
20. NO PVC PIPE MAY BE PULLED. PVC PIPE IS TO BE TRENCHED AND BACKFILLED.

STORM & EROSION CONTROL

1. THE CONTRACTOR SHALL MAINTAIN ALL EXISTING DRAINAGE FACILITIES WITHIN THE CONSTRUCTION AREA UNTIL THE DRAINAGE IMPROVEMENTS ARE IN PLACE AND FUNCTIONING.
2. ON SLOPING AREAS, THE CONTRACTOR SHALL TAKE PRECAUTIONS TO MITIGATE ANY POSSIBLE EROSION PROBLEMS IN TRENCHES DUE TO STORM WATER THAT MIGHT OCCUR DURING OR AFTER CONSTRUCTION AS DIRECTED OR APPROVED BY ENGINEER.
3. DURING CONSTRUCTION; THE CONTRACTOR IS FULLY RESPONSIBLE FOR INTERIM PROVISIONS FOR PASSAGE OF IRRIGATION AND STORM WATER. NO SUPPLEMENTAL COMPENSATION WILL BE MADE FOR WET CONDITIONS OR FLOW DIVERSIONS.
4. THE CONTRACTOR SHALL ALSO BE REQUIRED TO TAKE ALL PRECAUTIONS NECESSARY TO INSURE THAT NO STORM WATER/SEDIMENT AND/OR CONSTRUCTION DEBRIS ARE RELEASED FROM THE SITE. ANY RELEASES SHALL BE CLEANED AND MITIGATED AT CONTRACTOR'S EXPENSE.
5. CONTRACTOR TO PREPARE AND SUBMIT EROSION CONTROL PLAN TO OWNER AND ENGINEER.
6. CONTRACTOR TO MEET CITY OF POCATELLO AND EPA EROSION AND SEDIMENTATION CONTROL PLAN (ESCP) AND STORM WATER POLLUTION PREVENTION PLAN (SWPPP) REQUIREMENTS.
7. CONTRACTOR RESPONSIBLE FOR ANY REQUIRED PERMITS WITH THE CITY OF POCATELLO.

KELLER ASSOCIATES
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Pocatello, Idaho 83201
(208) 238-2146

PROFESSIONAL ENGINEER
LICENSE
15381
8/27/2025
STATE OF IDAHO
MATTHEW B. HILL

NO.	REVISIONS	DATE

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DPW PROJECT #24-246SC
ISU: REPAIR UTILITY TUNNEL, PHASE 3

IDAHO STATE UNIVERSITY

GENERAL NOTES

DRAWN: KJW | CHECK: MBH

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO.
208106-119

SHEET NO.
G-002

J:\208106-119 ISU REPLACE UTILITY TUNNEL, PHASE 3\C_DESN_CAD\3_DESIGN\D_PLANS-11G-002.DWG LAST SAVED: 7/7/2025 4:22 PM PRINTED: 8/26/2025 9:27 AM

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EXISTING TOPOGRAPHY

- 2460 — TOPOGRAPHIC CONTOUR
- EG — EDGE OF GRAVEL
- EP — EDGE OF PAVEMENT
- CURB & GUTTER, SIDEWALK & DROP INLET
- X — FENCE (BARBED WIRE OR OTHER)
- O — FENCE (CHAINLINK)
- DITCH FLOWLINE
- TP-31 — TEST PIT
- SIGN
- BUILDING OR STRUCTURE
- TRAFFIC MARKING (STOP BAR)
- TRAFFIC MARKING (CROSS WALK)
- EXISTING TUNNEL

PROPERTY & CONTROL

- CP #203 — SURVEY CONTROL POINT
- BM-#1 — BENCHMARK
- FOUND BRASS CAP
- FOUND ALUMINUM CAP
- FOUND 5/8" STEEL PIN
- SET 5/8" STEEL PIN W/CAP
- FOUND 1/2" STEEL PIN
- SET 1/2" STEEL PIN W/CAP
- CALCULATED POINT
- WC — WITNESS CORNER
- EASEMENT - UTILITY
- EASEMENT - TEMPORARY
- EASEMENT - SETBACK
- PROJECT BOUNDARY
- P/L — PROPERTY LINES
- SECTION LINES
- R/W — PRESCRIPTIVE RIGHT OF WAY
- ROW — DEDICATED RIGHT OF WAY
- ( ) — DATA OF RECORD
- 6 / 7 — QUARTER SECTION - NOT FOUND
- 5 — CENTER SECTION
- 5 / 6 / 7 / 8 — SECTION CORNER - FOUND

EXISTING UTILITY

- 8"W — WATERLINE & VALVE
- 12"SS> — SANITARY SEWER LINE & MANHOLE
- <4"SS — SANITARY SEWER SERVICE & CLEANOUT
- PS — PRESSURE SEWER LINE & VALVE VAULT
- 10"SD> — STORM DRAIN LINE & MANHOLE
- 8"PI — PRESSURE IRRIGATION & VALVE
- GI — GRAVITY IRRIGATION & MANHOLE
- PP — OHP — OVERHEAD POWER LINE & POWER POLE
- UGP — UNDERGROUND POWER LINE
- SIGNAL POLE
- LIGHT POLE
- NG — NATURAL GAS LINE
- FO — FIBER OPTIC LINE
- T — TR — TELEPHONE LINE & RISER
- TV — CABLE — CABLE LINE & RISER

PROPOSED GRADING

- 2457 — TOPOGRAPHIC CONTOUR
- RIDGELINE
- 1.50% — DRAINAGE ARROW & SLOPE
- +57.73 — SPOT ELEVATION
- SWALE FLOWLINE

PROPOSED MISCELLANEOUS

- CLEARING AND GRUBBING
- CONSTRUCTION PHASE LIMITS
- DEMOLITION/ABANDON

PROPOSED SITE

- 6" VERTICAL CURB, GUTTER, SIDEWALK & INLET
- 6" VERTICAL CUT CURB & GUTTER
- 6" REVERSE CURB & GUTTER
- 6" REVERSE CUT CURB & GUTTER
- IMBEDDED CURB
- BUILDING OR STRUCTURE (SOLID)
- CONCRETE (AR-CONC)
- ASPHALT (DOTS)
- GRAVEL SURFACE (AR-SAND)
- GRAVEL SECTION (GRAVEL)
- LANDSCAPE ROCK (AGGREGATE)

PROPOSED SITE (CONT.)

- NEW TUNNEL
- SOD
- MULCH
- O — CHAINLINK FENCE & GATE
- X — FENCE
- EP — EDGE OF PAVEMENT
- EG — EDGE OF GRAVEL
- SIGN
- TRAFFIC MARKING (STOP BAR)
- TRAFFIC MARKING (CROSS WALK)
- X — TEMPORARY SITE FENCING

PROPOSED UTILITY

FLANGED | MECHANICAL JOINT | FITTING TYPES

- 45° — 8"W — BEND
- 8"W — 8"W — REDUCING TEE
- TEE
- REDUCER
- FLANGE TO MECHANICAL JOINT COUPLING
- CROSS
- CAP W/BLIND FLANGE
- CHECK VALVE
- GATE VALVE
- BUTTERFLY VALVE
- BLOW-OFF VALVE
- RESTRAINED FITTING
- WM — WATER SERVICE LINE & METER
- FIRE HYDRANT
- 8" FIRE — 8" FIRE — FIRE LINE
- 8"W — 8"W — WATERLINE
- MW — MONITORING WELL
- LOCATION WIRE BOX
- NON-FREEZE YARD HYDRANT
- 8"PI — PRESSURE IRRIGATION, TEE & GATE VALVE
- 2"PI — PRESSURE IRRIGATION SERVICE
- 8"GI< — 8"GI< — GRAVITY IRRIGATION & STRUCTURE
- 8"SS< — 8"SS< — SANITARY SEWER & MANHOLE W/ VENTED LID
- 4"SS< — SANITARY SEWER SERVICE & CAP
- 4"SS< — 4"SS< — SANITARY SEWER SERVICE & CLEANOUT

PROPOSED UTILITY (CONT.)

- 8"PS< — 8"PS< — PRESSURE SEWER & VALVE VAULT
- 18"SD< — 15"SD< — STORM DRAIN LINE, INLET & CATCH BASIN
- 12"SD< — 12"SD< — STORM DRAIN LINE & MANHOLE W/ VENTED LID
- JOINT TRENCH IN PROFILE
- CABLE & TELEPHONE RISERS
- JT — JT — JOINT TRENCH & DEVICE
- JUNCTION BOX & DUCT BANK
- NG — GM — NG — NATURAL GAS LINE & METER
- NG — GR — NG — NATURAL GAS LINE & RISER
- NG — NG — NATURAL GAS LINE & VALVE
- UGP — UGP — UNDERGROUND POWER
- OHP — PP — OHP — OVERHEAD POWER & POLE
- LIGHT POLE
- TEL — TEL — TR — TELEPHONE LINE & RISER
- T — FO — FO — FIBER OPTIC LINE & VAULT
- T/D — T/D — TELEPHONE DATA LINE
- TV — CABLE — CABLE & TV RISER

DEMOLITION HATCH LEGEND

- ASPHALT DEMO
- TUNNEL DEMO
- CURB DEMO
- SOD DEMO
- CONCRETE SIDEWALK DEMO
- MULCH DEMO

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PROFESSIONAL ENGINEER — LICENSED — Matthew B. Hill — 15381 — 8/27/2025 — STATE OF IDAHO — MATTHEW B. HILL

NO.	REVISIONS	DATE

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DPW PROJECT #24-246SC
ISU: REPAIR UTILITY TUNNEL, PHASE 3

IDAHO STATE UNIVERSITY

SYMBOLS & LINE LEGEND

DRAWN: KJW | CHECK: MBH

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO. 208106-119

SHEET NO. G-003

PRINTED: 8/26/2025 9:27 AM
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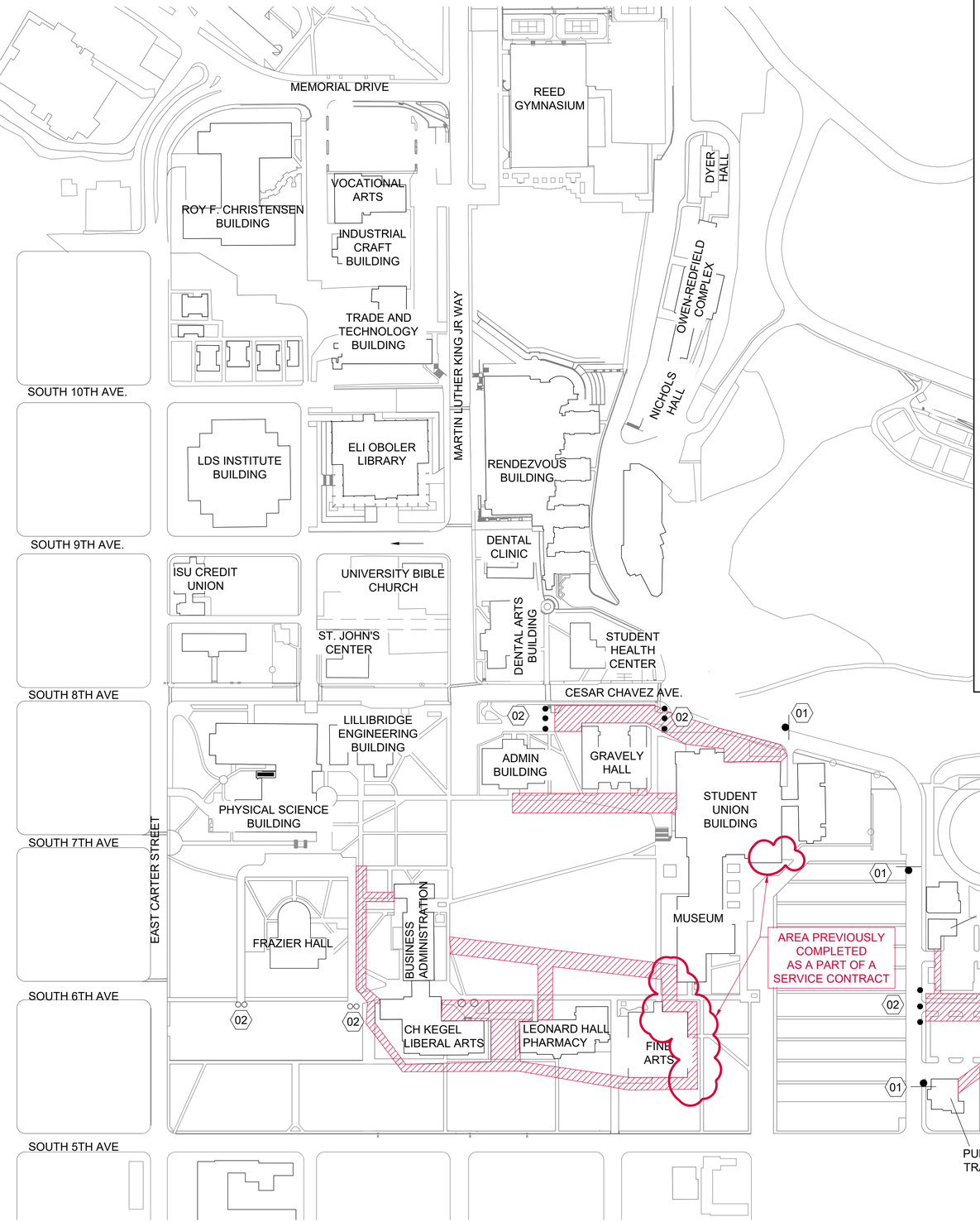

GENERAL NOTES:

1. THIS PLAN IS FOR GENERAL INTENT FOR THE PROJECT. CONTRACTOR TO PROVIDE A FINAL CONSTRUCTION TRAFFIC CONTROL PLAN FOR VEHICLES AND PEDESTRIAN.
2. SIGNS SHALL BE MOUNTED 5' ABOVE THE PAVED SURFACE.
3. SIGNS AND SIGN STANDS THAT DO NOT APPLY TO ACTIVE WORK ZONE TRAFFIC CONTROL SHALL BE REMOVED.
4. COVER ALL CONFLICTING SIGNS WITHIN THE PROJECT. SIGNS SHALL BE COVERED USING AN APPROVED METHOD. SIGNS DAMAGED SHALL BE REPLACED AT NO COST TO THE OWNER.
5. SIGNS USED AT NIGHT SHALL HAVE TYPE A FLASHERS.
6. CONTACT IDAHO STATE UNIVERSITY EMERGENCY SERVICES AT 1-208-834-6100 48 HOURS PRIOR TO PARKING CLOSURE.
7. CONTACT POCATELLO STREET OPERATIONS AT 1-208-234-6194 48 HOURS PRIOR TO ROAD CLOSURE.
8. **CONTRACTOR TO PROVIDE AND SUBMITT TO THE ENGINEER AND ISU FOR APPROVAL AN ACCESS PLAN SHOWING ACCESS ROUTES TO CONSTRUCTION AREAS TO MINIMIZE DAMAGE TO ISU GROUNDS.**

CONSTRUCTION TRAFFIC CONTROL:

1. PROVIDE CONSTRUCTION TRAFFIC CONTROL FOR THE WORK FOR VEHICLES AND PEDESTRIANS.
2. SUBMIT A CONSTRUCTION TRAFFIC CONTROL PLAN TO THE ENGINEER, ISU AND TO THE ROADWAY JURISDICTION PRIOR TO CONSTRUCTION. NO WORK SHALL COMMENCE PRIOR TO OBTAINING APPROVAL ON TRAFFIC CONTROL PLAN. UPDATE TRAFFIC CONTROL PLAN BASED ON CONTRACTOR OPERATIONS THROUGH OUT THE PROJECT.
3. UNDER NO CIRCUMSTANCES SHALL TRAFFIC CONTROL AND ASSOCIATED CONSTRUCTION HINDER ANY EMERGENCY VEHICLE ACCESS, BLOCK PRIVATE DRIVEWAYS FOR EXTENDED PERIODS, OBSTRUCT BUSINESS DELIVERIES, AND MAIL/PACKAGE DELIVERY, OR IMPACT TRASH/RECYCLE SERVICES.
4. NO WORK SHALL COMMENCE UNTIL AN APPROVED TRAFFIC CONTROL PLAN IS OBTAINED.
5. CONTRACTOR TO PROVIDE NOTICE TO OWNER WHEN ACTIVITIES ARE ANTICIPATED TO AFFECT ACCESS AND MAKE APPROPRIATE ACCOMMODATIONS AS NEEDED. DISRUPTIONS TO INDIVIDUAL DRIVEWAY OR BUILDING ACCESS TO BE MINIMIZED, WITH ACCESS RESTORED FOR EVENING HOURS EXCEPT WHEN NEW CONCRETE IS BEING CURED.
6. PEDESTRIAN ACCESS AND EGRESS SHALL BE MAINTAINED TO BUILDINGS ADJACENT TO THE PROJECT OR WITHIN THE PUBLIC RIGHT OF WAY. CONTRACTOR TO COORDINATE WITH ISU FOR PEDESTRIAN ACCESS AND EGRESS DURING CONSTRUCTION RELATED ACTIVITIES. CONTRACTOR TO PROVIDE A PEDESTRIAN AND EMERGENCY EGRESS PLAN TO ISU AND THE EOR PRIOR TO CONSTRUCTION.
7. PERFORM TRAFFIC CONTROL WORK AND PROVIDE MATERIALS IN ACCORDANCE WITH THE CURRENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
8. TRAFFIC CONTROL OPERATIONS AND CHANGES MUST BE DIRECTED BY A TRAFFIC CONTROL SUPERVISOR ACCREDITED THROUGH AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION (ATSSA). TRAFFIC CONTROL FLAGGERS MUST HAVE ATSSA ~~CERTIFICATION~~.

SHEET KEYNOTES

01	UTILITY WORK AHEAD	W 21-7 (48" x 48")
02	ROAD CLOSED	R 11-2 (48" x 30") TYPE III BARACADE

LEGEND

- CONSTRUCTION LIMITS
- SIGN
- TRAFFIC CONTROL DRUM

0 150 300

KELLER ASSOCIATES
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(208) 238-2146

PROFESSIONAL ENGINEER LICENSE
15381
8/27/2025
STATE OF IDAHO
MATTHEW B. HILL

NO.	REVISIONS	DATE

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DPW PROJECT #24-246SC
ISU: REPAIR UTILITY TUNNEL, PHASE 3

IDAHO STATE UNIVERSITY

VEHICULAR TEMPORARY TRAFFIC CONTROL PLAN

DRAWN: KJW | CHECK: MBH

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO.
208106-119

SHEET NO.
G-004

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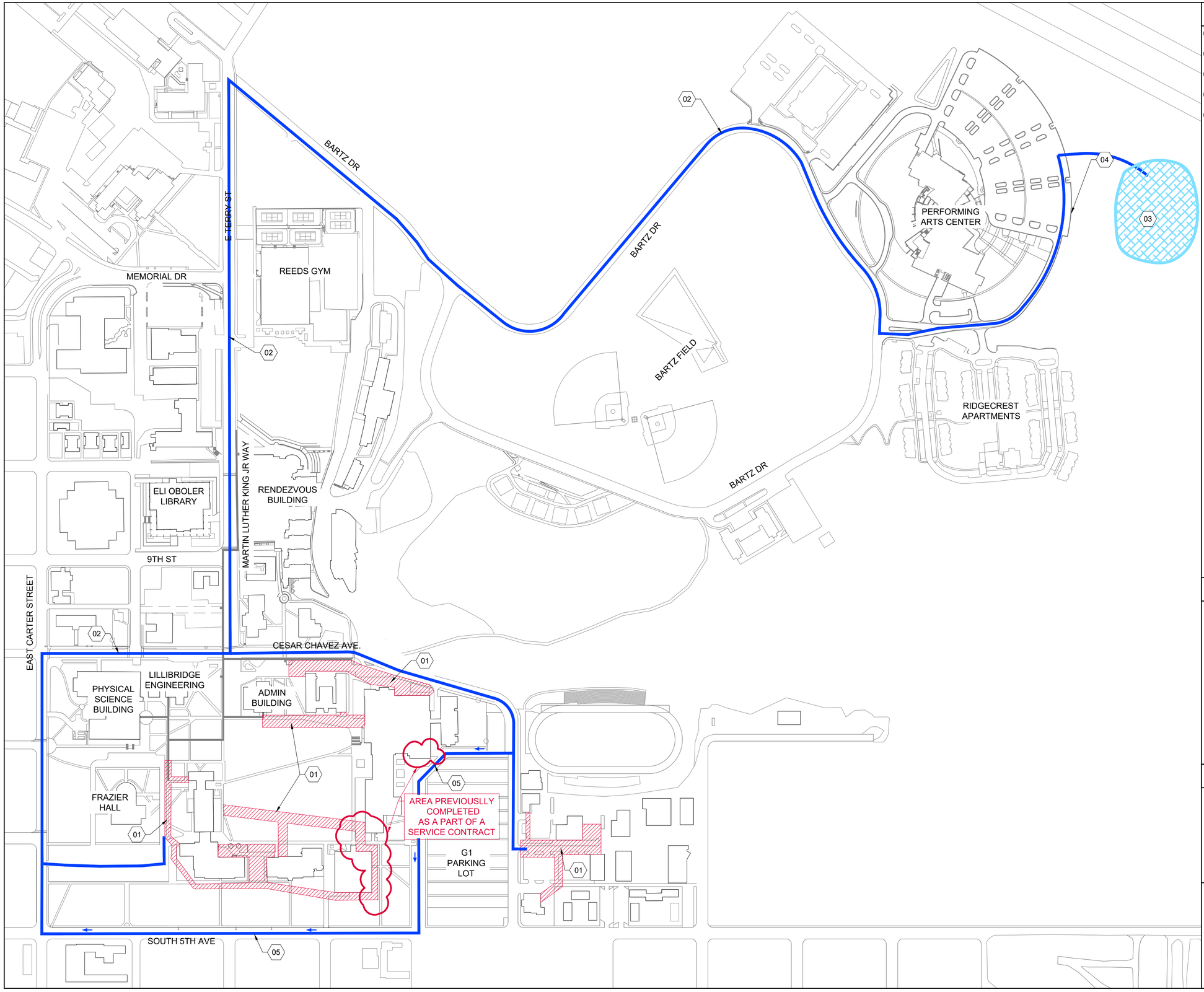

SHEET KEYNOTES

01	PROJECT SITE AREA
02	TRUCK ROUTE (BOTH DIRECTIONS)
03	MATERIAL STORAGE AREA
04	PROVIDE CURB PROTECTION
05	TRUCKING ROUTE (ONE-WAY)

SHEET NOTES

1. ON SITE STORAGE OF EXCAVATED MATERIAL WILL NOT BE ALLOWED.
2. ALL MATERIAL TO BE HAULED OFF SITE FOR TEMPORARY STORAGE.
3. SUITABLE STORED MATERIAL TO BE USED AS BACKFILL TO BE HAULED BACK TO SITE.
4. UNSUITABLE MATERIAL TO BE HAULED TO A SUITABLE OFF SITE LOCATION FOR DISPOSAL.
5. STAGING AND STOCK PILING AREA SHALL BE RETURNED TO EXISTING GRADING AND CONDITION PRIOR TO PROJECT COMPLETION.
6. THE ACCESS ROAD AND MATERIALS STORAGE AREA NEED TO BE KEPT ORGANIZED AND MAINTAINED FOR ALL WEATHER ACCESS.

LEGEND

CONSTRUCTION LIMITS

0 180 360

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DPW PROJECT #24-246SC
ISU: REPAIR UTILITY TUNNEL, PHASE 3

IDAHO STATE UNIVERSITY

OFF SITE MATERIALS STORAGE & TRUCKING ROUTE

DRAWN: KJW | CHECK: MBH

VERIFY SCALE: Scales based on 22"x34" prints.

1-1/2 Inches

PROJECT NO.
208106-119

SHEET NO.
G-005

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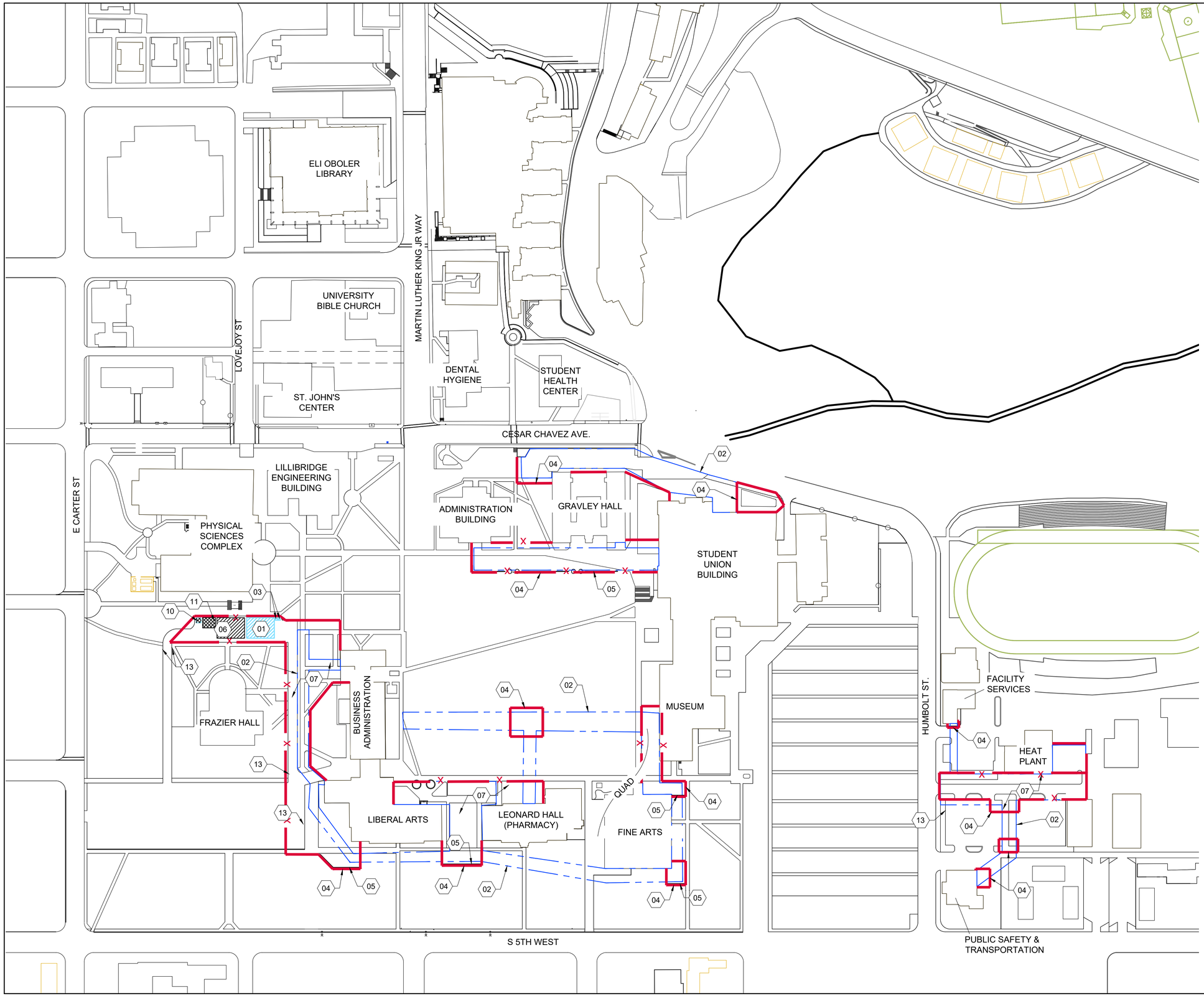

SHEET KEYNOTES

01	STAGING & LAY DOWN AREA,RE: BMP-37 & 44
02	CONSTRUCTION LIMITS
03	PORTA POTTY, BMP-50
04	SITE FENCING
05	SILT FENCE, RE: BMP-65 RE: A1/CE-501
06	VEHICLE / EQUIPMENT CLEANING, MAINTENANCE, AND REPAIR, RE: BMP-84
07	DUST CONTROL, ENTIRE SITE, RE: BMP-43
08	NOT USED
09	NOT USED
10	DUMPSTER, RE: BMP-51
11	DEDICATED FUEL AREA, RE: BMP-83
12	NOT USED
13	SANDBAG SEDIMENT TRAP, BMP-70, RE: B1/CE-501

EROSION CONTROL NOTES

1. ALL STANDARDS CALLED OUT AS "BMP"-___" ARE PER CURRENT COPY OF THE STATE OF IDAHO CATALOG OF STORM WATER BEST MANAGEMENT PRACTICES.
2. THE AREA OF DISTURBANCE IS GREATER THAN 1-ACRE. THE CONTRACTOR TO FILE A NOTICE OF INTENT (NOI) WITH THE ENVIRONMENTAL PROTECTION AGENCY. THE CONTRACTOR WILL NEED TO FILE THE NOI BEFORE COMMENCING CONSTRUCTION ACTIVITIES.
3. CONSTRUCTION SITE SHALL CONFORM TO DUST CONTROL MANAGEMENT PER BMP-43.
4. BMP-13: INLET PROTECTION METHOD SHALL BE BELOW GRADE, SUCH AS A DROP INLET INSERT WITH SEDIMENT RESERVOIR AND OVERFLOW PROTECTION, WHEN POSSIBLE. IF APPLICABLE, INLET PROTECTION ABOVE GRADE SHALL NOT INTERFERE WITH TRAFFIC.
5. SILT FENCE, WATTLE, INLET PROTECTION, ETC. TO STAY IN PLACE THROUGH END OF PROJECT.
6. EXISTING UTILITIES SHOWN IN APPROXIMATE LOCATION. CONTACT DIG LINE AT 1-800-342-1585 48 HOURS IN ADVANCE TO LOCATE UTILITIES PRIOR TO COMMENCING WORK. (RE: EXISTING SITE PLAN SHEETS V-100 THRU V-118)
7. CONTRACTOR SHALL CLEAN ALL EXISTING ROADWAYS ON A REGULAR BASIS TO ENSURE NO MUD IS TRACKED OFF SITE.
8. CONTRACTOR TO NOTIFY OWNER AND ENGINEER IF ANY HAZARDOUS MATERIALS, OR MATERIALS OF A QUESTIONABLE NATURE ARE FOUND. WORK TO BE STOPPED IN THOSE AREAS UNTIL MATERIAL IS DEEMED SAFE OR A PLAN FOR REMOVAL HAS BEEN MADE.

GENERAL SHEET NOTES

1. STAGING & STOCK PILING AREA SHALL BE RETURNED TO EXISTING GRADING AND CONDITION PRIOR TO PROJECT COMPLETION.
2. CONTRACTOR TO PROVIDE AN EROSION CONTROL AND SEDIMENTATION PLAN MEETING CITY OF POCATELLO REQUIREMENTS.
3. CONTRACTOR TO COORDINATE WITH ISU FOR FINAL LOCATION OF SITE FENCING.
4. CONCRETE WASTE TO BE DISPOSED OFF SITE.

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LICENSED
15381
8/27/2025
STATE OF IDAHO
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DPW PROJECT #24-246SC
ISU: REPAIR UTILITY TUNNEL, PHASE 3

IDAHO STATE UNIVERSITY

STAGING EROSION & SEDIMENTATION CONTROL PLAN

0 100 200

DRAWN: KJW | CHECK: MBH

VERIFY SCALE: Scales based on 22"x34" prints.

1-1/2 Inches

PROJECT NO.
208106-119

SHEET NO.
CE-101

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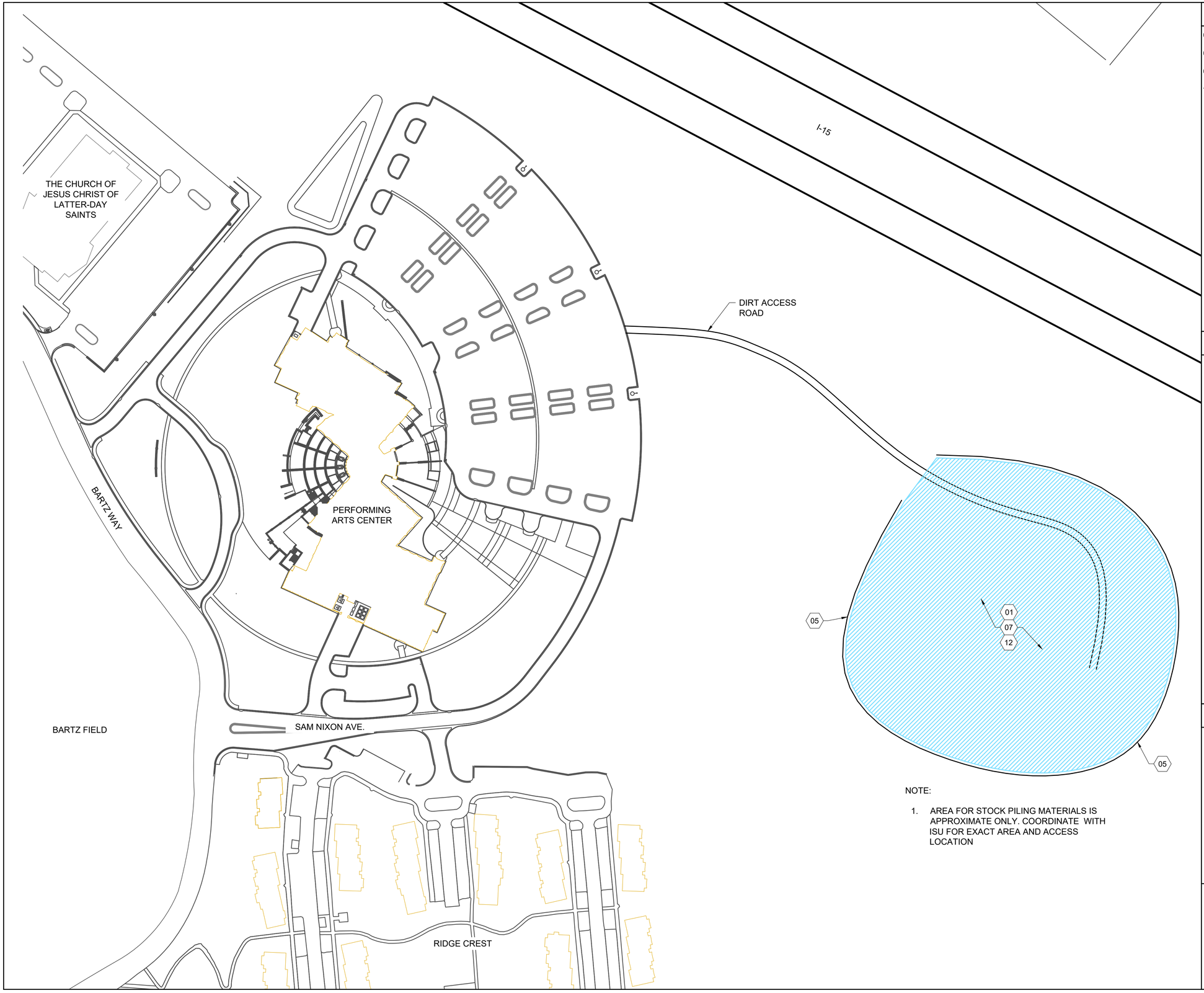

NOTE:

1. AREA FOR STOCK PILING MATERIALS IS APPROXIMATE ONLY. COORDINATE WITH ISU FOR EXACT AREA AND ACCESS LOCATION

SHEET KEYNOTES

01 STAGING & STOCKPILE AREA,RE: BMP-37 & 44

05 SILT FENCE, RE: BMP-65 RE: A1/CE-501

07 DUST CONTROL, ENTIRE SITE, RE: BMP-43

12 STOCKPILE SEDIMENT/SOIL, RE: BMP-9 (LOCATION VARIES, CONTRACTOR TO COORDINATE WITH ISU)

EROSION CONTROL NOTES

1. ALL STANDARDS CALLED OUT AS "BMP"-___" ARE PER CURRENT COPY OF THE STATE OF IDAHO CATALOG OF STORM WATER BEST MANAGEMENT PRACTICES.
2. THE AREA OF DISTURBANCE IS GREATER THAN 1-ACRE. THE CONTRACTOR TO FILE A NOTICE OF INTENT (NOI) WITH THE ENVIRONMENTAL PROTECTION AGENCY. THE CONTRACTOR WILL NEED TO FILE THE NOI BEFORE COMMENCING CONSTRUCTION ACTIVITIES.
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5. SILT FENCE, WATTLE, INLET PROTECTION, ETC. TO STAY IN PLACE THROUGH END OF PROJECT.
6. EXISTING UTILITIES SHOWN IN APPROXIMATE LOCATION. CONTACT DIG LINE AT 1-800-342-1585 48 HOURS IN ADVANCE TO LOCATE UTILITIES PRIOR TO COMMENCING WORK. (RE: EXISTING SITE PLAN SHEETS V-100 THRU V-118)
7. CONTRACTOR SHALL CLEAN ALL EXISTING ROADWAYS ON A REGULAR BASIS TO ENSURE NO MUD IS TRACKED OFF SITE.
8. CONTRACTOR TO NOTIFY OWNER AND ENGINEER IF ANY HAZARDOUS MATERIALS, OR MATERIALS OF A QUESTIONABLE NATURE ARE FOUND. WORK TO BE STOPPED IN THOSE AREAS UNTIL MATERIAL IS DEEMED SAFE OR A PLAN FOR REMOVAL HAS BEEN MADE.

GENERAL SHEET NOTES

1. STAGING & STOCK PILING AREA SHALL BE RETURNED TO EXISTING GRADING AND CONDITION PRIOR TO PROJECT COMPLETION.
2. CONTRACTOR TO PROVIDE AN EROSION CONTROL AND SEDIMENTATION PLAN MEETING CITY OF POCATELLO REQUIREMENTS.
3. CONTRACTOR TO COORDINATE WITH ISU FOR FINAL LOCATION OF SITE FENCING.
4. CONCRETE WASTE TO BE DISPOSED OFF SITE.
6. THE ACCESS ROAD AND MATERIALS STORAGE AREA NEED TO BE KEPT ORGANIZED AND MAINTAINED FOR ALL WEATHER ACCESS.

0 80 160

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DPW PROJECT #24-246SC
ISU: REPAIR UTILITY TUNNEL, PHASE 3

IDAHO STATE UNIVERSITY

STAGING EROSION & SEDIMENTATION CONTROL PLAN

DRAWN: KJW | CHECK: MBH

VERIFY SCALE: Scales based on 22"x34" prints.

1-1/2 Inches

PROJECT NO.
208106-119

SHEET NO.
CE-102

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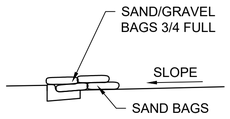

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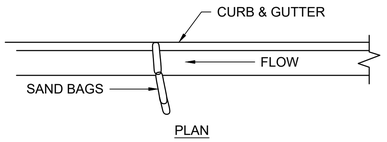
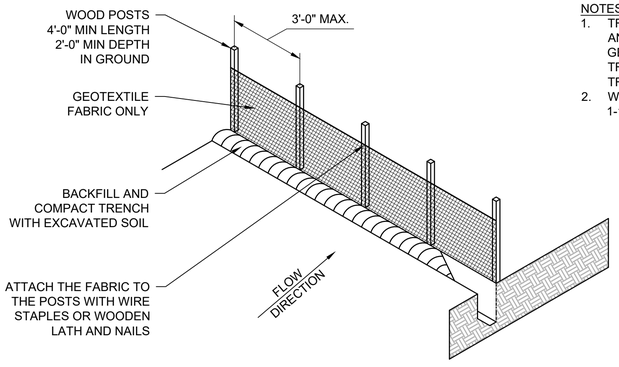


PLAN

B1 SANDBAG SEDIMENT TRAP

N.T.S.



NOTES:
1. TRENCH SHALL BE A MINIMUM OF 4" WIDE AND 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL AND COMPACT TRENCH WITH EXCAVATED SOIL.
2. WOOD POSTS SHALL BE A MINIMUM SIZE OF 1-1/8" x 1-1/8" OAK OR HICKORY.

A1 SILT FENCE

N.T.S.

KELLER ASSOCIATES
305 North 3rd Ave, Suite A
Pocatello, Idaho 83201
(208) 238-2146

PROFESSIONAL ENGINEER
DocuSigned by: Matthew B. Hill
E7D41EBE4C...
15381
8/27/2025
STATE OF IDAHO
MATTHEW B. HILL

NO.	REVISIONS	DATE

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DPW PROJECT #24-246SC
ISU: REPAIR UTILITY TUNNEL, PHASE 3

IDAHO STATE UNIVERSITY

EROSION & SEDIMENT CONTROL DETAILS

DRAWN: KJW CHECK: MBH

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO.
208106-119

SHEET NO.
CE-501

J:\208106-119 ISU REPLACE UTILITY TUNNEL, PHASE 3\C_DESN_CAD\3_DESIGNND_PLANS-1\CE-501.DWG LAST SAVED: 7/7/2025 5:54 PM PRINTED: 8/26/2025 9:28 AM

Docusign Envelope ID: E553447E-6277-4A68-9549-8576A2547905

J:\208106-119 ISU REPLACE UTILITY TUNNEL, PHASE 3\C_DESN_CAD\3_DESIGN\D_PLANS-11\V-101.DWG LAST SAVED: 8/25/2025 3:53 PM PRINTED: 8/26/2025 9:29 AM

MARTIN LUTHER KING JR. WAY

CEZAR CHAVEZ AVE (8TH)

S 5TH AVE

HUMBOLT ST.

PHYSICAL SCIENCE COMPLEX

LILLIBRIDGE ENGINEERING

ADMINISTRATION BUILDING

GRAVELEY HALL

STUDENT UNION BUILDING

FRAZIER HALL

BUSINESS ADMINISTRATION

CH KEGEL LIBERAL ARTS

LEONARD HALL PHARMACY

FINE ARTS

MUSEUM

FACILITIES SERVCIES

HEAT PLANT

PUBLIC SAFETY & TRANSPORTATION

V-101 V-102 V-103 V-104 V-105 V-106 V-107 V-108 V-109 V-110 V-111 V-112 V-113 V-114 V-115 V-116 V-117 V-118

0+00 1+00 2+00 3+00 4+00 5+00 5+70

PREVIOUSLY REVIEWED BY IDOPL

AREA PREVOIUSLY COMPLETED AS A PART OF A SERVICE CONTRACT

0 50 100

PLAN WINDOW ON PLAN OR PLAN & PROFILE SHEET

C-201

INDICATES LOWER RIGHT HAND CORNER OF THE SHEET

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LICENSE
15381
8/27/2025
STATE OF IDAHO
MATTHEW B. HILL

NO.	REVISIONS	DATE

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DPW PROJECT #24-246SC
ISU: REPAIR UTILITY TUNNEL, PHASE 3

IDAHO STATE UNIVERSITY

EXISTING OVERALL SITE PLAN

DRAWN: KJW | CHECK: MBH

VERIFY SCALE: Scales based on 22"x34" prints.

1-1/2 Inches

PROJECT NO.
208106-119

SHEET NO.
V-100

Docusign Envelope ID: E553447E-6277-4A68-9549-8576A2547905

EXISTING SITE NOTES

1. STEAM AND CONDENSATE LINES ARE IN TUNNELS LOCATED UNDER SIDEWALK PATHS UNLESS OTHERWISE NOTED.
2. CONTRACTOR TO VERIFY ALL INFORMATION ON THESE PLANS IN THE FIELD.
3. PIPE SIZES LISTED ON THESE PLANS MAY VARY IN THE FIELD. CONTRACTOR TO FIELD VERIFY.
4. TUNNEL UTILITIES INCLUDE: IDAHO POWER, SYRINGA, CABLE ONE, CENTURY LINK, AND IDAHO STATE UNIVERSITY NETWORKING / TELECOMMUNICATIONS.
5. FOR EXISTING IRRIGATION SYSTEM SEE SHEETS 15, 16, 20, 21, 26, AND 27 IN APPENDIX A.

01 FRAZIER HALL

01 BUSINESS ADMINISTRATION

STA: 5+00 (TUNNEL C)

5+00

4+00

3+00

SHEET V-102

MATCH LINE

4'-5"± WIDE X 5'-3"± TALL
(TUNNEL INSIDE DIMENSIONS)

6'-5"± WIDE X 6'-10"± TALL
(TUNNEL INSIDE DIMENSIONS)

TYP.

SHEET KEYNOTES

01	BUILDING	15	RAILING	44	STEAM LINE (LOCATED IN CONCRETE DUCT)	59	ELECTRICAL TRANSFORMER	69	STEAM LINE EXPANSION LOOP	96	HIGH VOLTAGE CONDUIT BANK, IDAHO POWER
02	DECIDUOUS TREE	18	CONCRETE RETAINING WALL	45	CONDENSATE LINE (LOCATED IN CONCRETE DUCT)	62	SITE LIGHTING	70	STORM DRAIN LINE	97	FRAMED STAIRS WITH RAILING
03	CONIFEROUS TREE	19	ASPHALT PAVING	49	ELECTRICAL METER	64	STEAM LINE (LOCATED IN TUNNEL)	71	STORM DRAIN INLET		
06	CURB & GUTTER	20	SITE SIGN	50	SANITARY SEWER LINE	65	CONDENSATE LINE (LOCATED IN TUNNEL)	73	COMMUNICATIONS CONDUIT		
07	CONCRETE SIDEWALK	21	RIBBON CURB	51	SANITARY SEWER MANHOLE	66	TUNNEL (LOCATED UNDER SIDEWALK OR PAVING)	82	STEAM AND CONDENSATE BANK TO BUILDING		
08	LANDSCAPING, SOD	23	ENCLOSURE WALL	52	WATER LINE	67	PRESSURE IRRIGATION MAIN LINE	88	STEAM TUNNEL VENT		
09	LANDSCAPING, MULCH	29	LANDSCAPING, ROCK MULCH	53	WATER VAULT	68	IRRIGATION VALVE	91	COMMUNICATION BOX		
11	ACCESS HATCH	32	SHRUB	55	FIRE DEPARTMENT CONNECTION			94	VENTILATION SHAFT		
12	MEMORIAL MARKER	34	BLOCK RETAINING WALL	57	POST INDICATOR VALVE			95	VAULT (UNKNOWN)		
13	CONCRETE STAIRS	35	COMMUNICATIONS CONDUIT (LOCATED IN CONCRETE DUCT)								
14	ADA RAMP										

0 10 20

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DPW PROJECT #24-246SC
ISU: REPAIR UTILITY TUNNEL, PHASE 3

IDAHO STATE UNIVERSITY

EXISTING SITE PLAN

DRAWN: KJW | CHECK: MBH

VERIFY SCALE: Scales based on 22"x34" prints.

1-1/2 Inches

PROJECT NO.
208106-119

SHEET NO.
V-101

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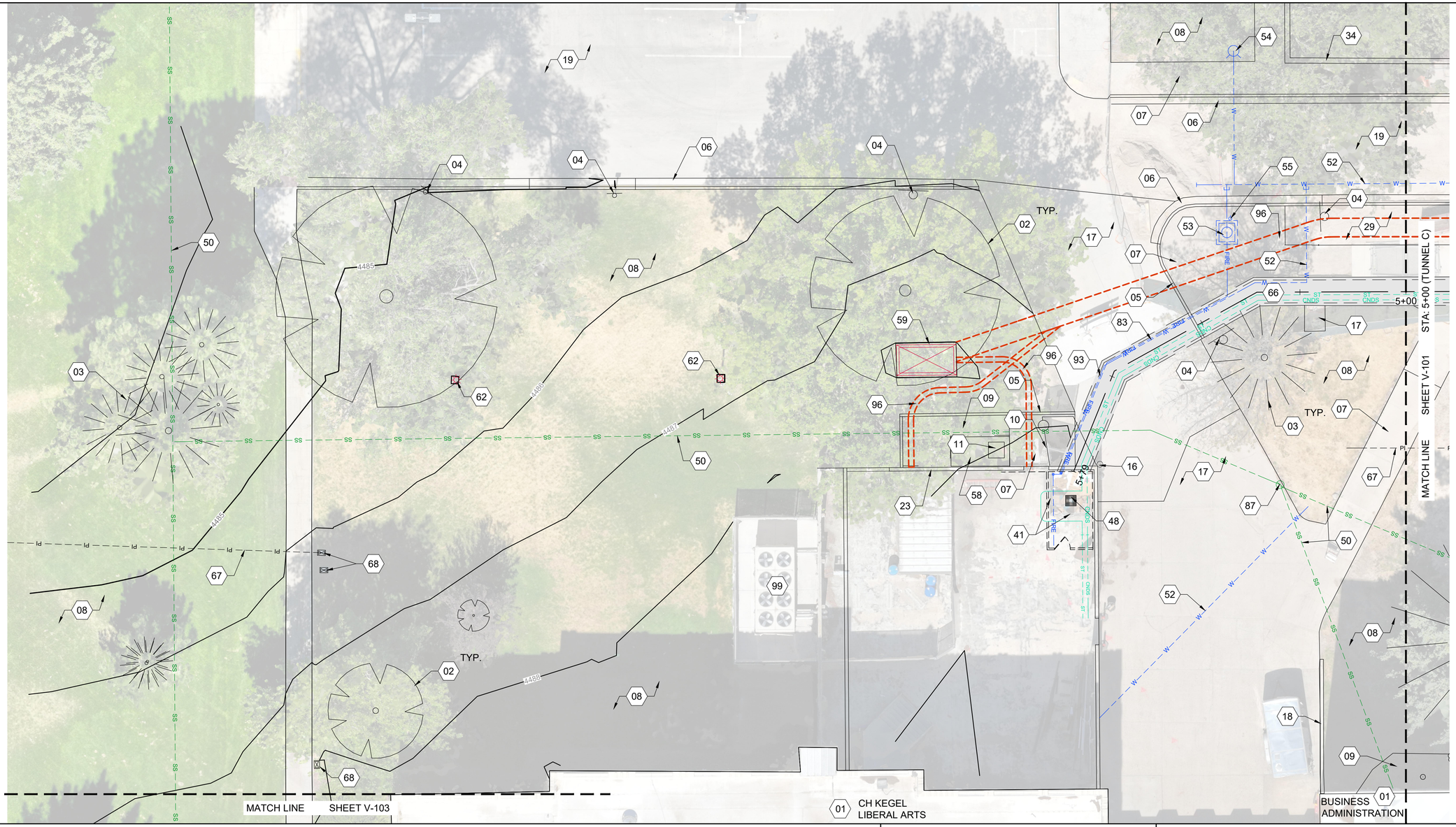

SHEET KEYNOTES

01	BUILDING	34	BLOCK RETAINING WALL	83	2" WATER LINE IN TUNNEL
02	DECIDUOUS TREE	41	TUNNEL ENTRANCE ROOM (IN BASEMENT MECHANICAL ROOM)	87	SANITARY SEWER CLEANOUT
03	CONIFEROUS TREE			93	2" FIRE LINE IN TUNNEL
04	PARKING SIGN	48	DRAIN SUMP AND PUMP	96	HIGH VOLTAGE CONDUIT BANK, IDAHO POWER
05	CURB WALL	50	SANITARY SEWER LINE	99	CHILLER UNITS
06	CURB & GUTTER	52	WATER LINE		
07	CONCRETE SIDEWALK	53	WATER VAULT		
08	LANDSCAPING, SOD	54	FIRE HYDRANT		
09	LANDSCAPING, MULCH	55	FIRE DEPARTMENT CONNECTION		
10	CHAIN LINK FENCE	58	ELECTRICAL VAULT		
11	ACCESS HATCH	59	ELECTRICAL TRANSFORMER		
16	BOLLARD	62	SITE LIGHTING		
17	CONCRETE PAVING	66	TUNNEL (LOCATED UNDER SIDEWALK OR PAVING)		
18	CONCRETE RETAINING WALL				
19	ASPHALT PAVING	67	PRESSURE IRRIGATION MAIN LINE		
23	ENCLOSURE WALL				
29	LANDSCAPING, ROCK MULCH	68	IRRIGATION VALVE		

EXISTING SITE NOTES

1. STEAM AND CONDENSATE LINES ARE IN TUNNELS LOCATED UNDER SIDEWALK PATHS UNLESS OTHERWISE NOTED.
2. CONTRACTOR TO VERIFY ALL INFORMATION ON THESE PLANS IN THE FIELD.
3. PIPE SIZES LISTED ON THESE PLANS MAY VARY IN THE FIELD. CONTRACTOR TO FIELD VERIFY.
4. TUNNEL UTILITIES INCLUDE: IDAHO POWER, SYRINGA, CABLE ONE, CENTURY LINK, AND IDAHO STATE UNIVERSITY NETWORKING / TELECOMMUNICATIONS.
5. FOR EXISTING IRRIGATION SYSTEM SEE SHEETS 15, 16, 20, 21, 26, AND 27 IN APPENDIX A.

0 10 20

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PROFESSIONAL ENGINEER
LICENSED
15381
8/27/2024
STATE OF IDAHO
MATTHEW B. HILL

NO.	REVISIONS	DATE

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DPW PROJECT #24-246SC
ISU: REPAIR UTILITY TUNNEL, PHASE 3

IDAHO STATE UNIVERSITY

EXISTING SITE PLAN

DRAWN: KJW | CHECK: MBH

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO.
208106-119

SHEET NO.
V-102

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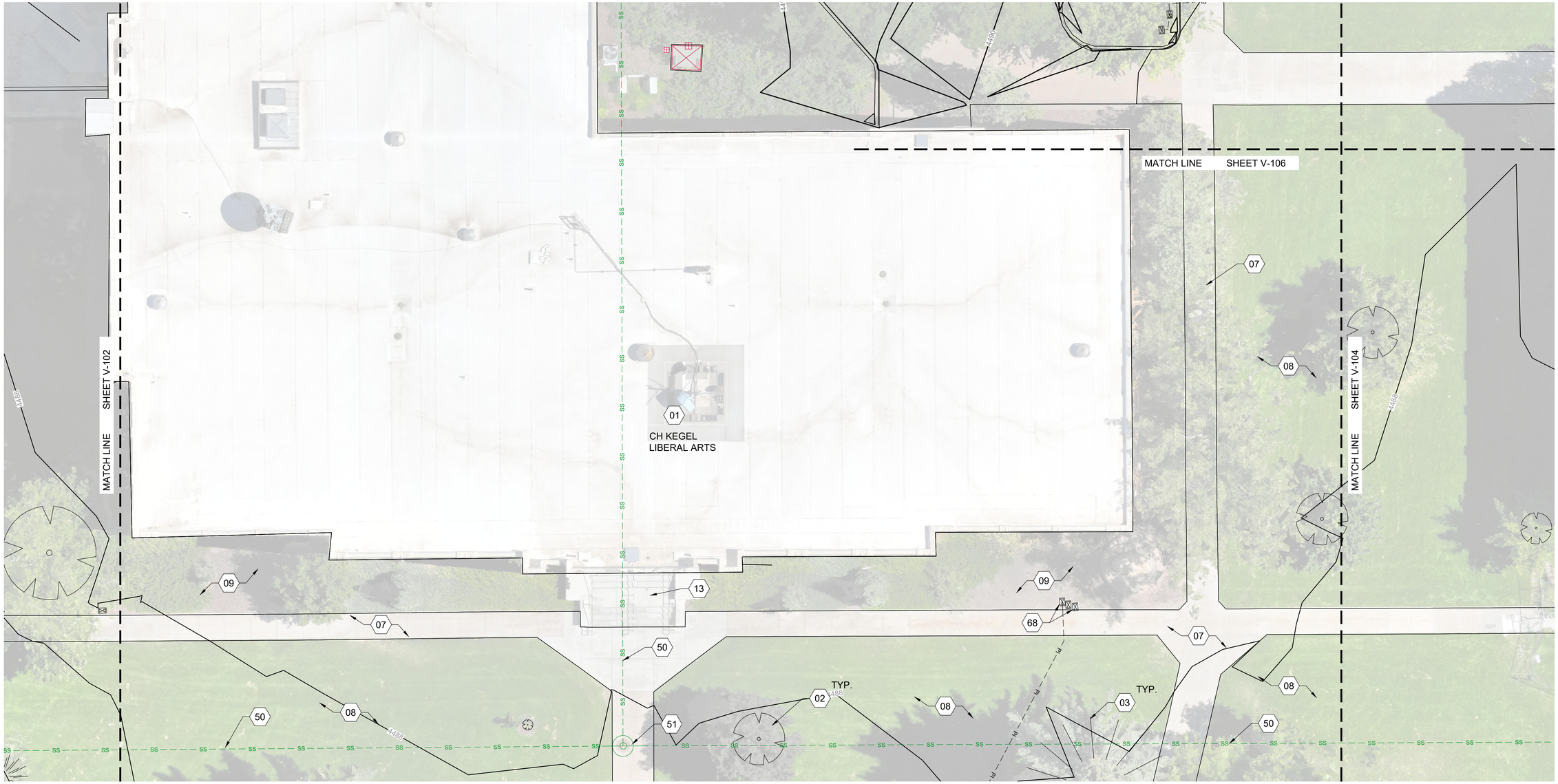

SHEET KEYNOTES

01	BUILDING
02	DECIDUOUS TREE
03	CONIFEROUS TREE
07	CONCRETE SIDEWALK
08	LANDSCAPING, SOD
09	LANDSCAPING, MULCH
13	CONCRETE STAIRS
50	SANITARY SEWER LINE
51	SANITARY SEWER MANHOLE
68	IRRIGATION VALVE

EXISTING SITE NOTES

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0 10 20

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DPW PROJECT #24-246SC
ISU: REPAIR UTILITY TUNNEL, PHASE 3

IDAHO STATE UNIVERSITY

EXISTING SITE PLAN

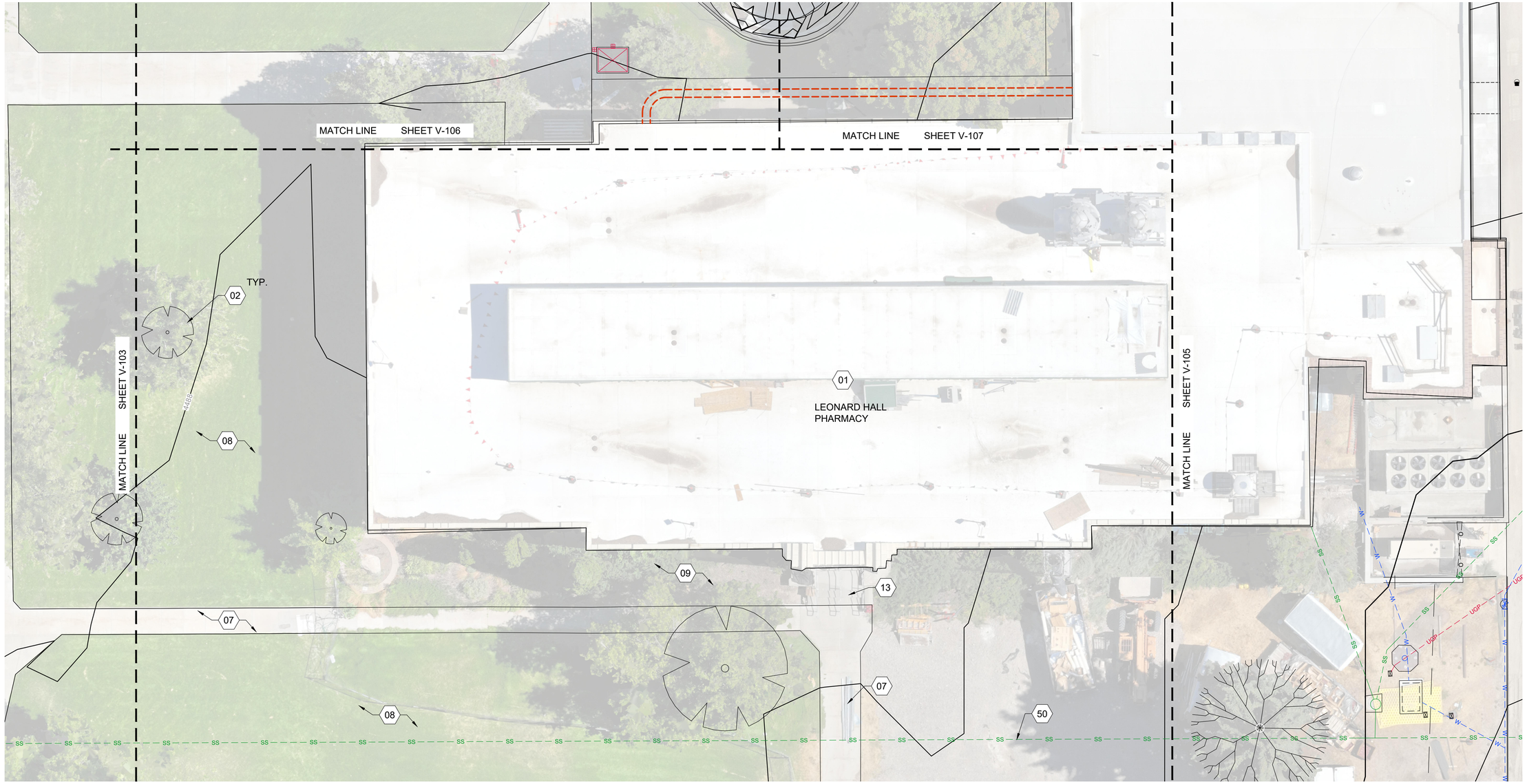
DRAWN: KJW | CHECK: MBH

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO.
208106-119

SHEET NO.
V-103

Docusign Envelope ID: 9E6E9141-87A1-4D24-86BA-4CD760C19B6F



SHEET KEYNOTES

01	BUILDING
02	DECIDUOUS TREE
07	CONCRETE SIDEWALK
08	LANDSCAPING, SOD
09	LANDSCAPING, MULCH
13	CONCRETE STAIRS
50	SANITARY SEWER LINE

EXISTING SITE NOTES

1. STEAM AND CONDENSATE LINES ARE IN TUNNELS LOCATED UNDER SIDEWALK PATHS UNLESS OTHERWISE NOTED.
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0 10 20

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DPW PROJECT #24-246SC
ISU: REPAIR UTILITY TUNNEL, PHASE 3

IDAHO STATE UNIVERSITY

EXISTING SITE PLAN

DRAWN: KJW | CHECK: MBH

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO.
208106-119

SHEET NO.
V-104

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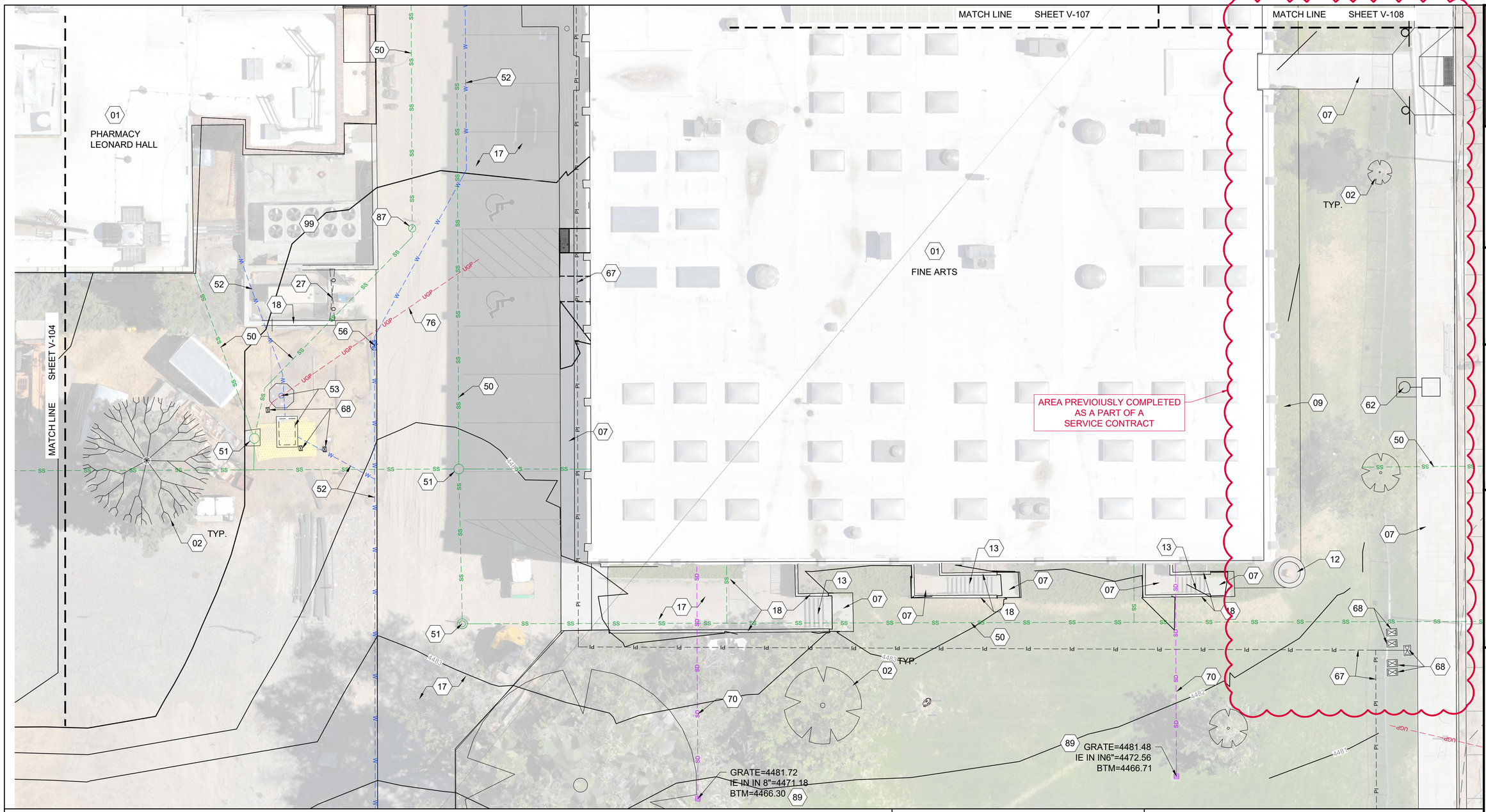

SHEET KEYNOTES

01	BUILDING	56	WATER VALVE
02	DECIDUOUS TREE	62	SITE LIGHTING
07	CONCRETE SIDEWALK	67	PRESSURE IRRIGATION MAIN LINE
09	LANDSCAPING, MULCH	68	IRRIGATION VALVE
12	MEMORIAL MARKER	70	STORM DRAIN LINE
13	CONCRETE STAIRS	76	UNDERGROUND POWER
17	CONCRETE PAVING	87	SANITARY SEWER CLEANOUT
18	CONCRETE RETAINING WALL	89	STORM DRAIN INFILTRATION DRY WELL
27	ENCLOSURE GATE	99	CHILLER UNITS
50	SANITARY SEWER LINE		
51	SANITARY SEWER MANHOLE		
52	WATER LINE		
53	WATER VAULT		

EXISTING SITE NOTES

1. STEAM AND CONDENSATE LINES ARE IN TUNNELS LOCATED UNDER SIDEWALK PATHS UNLESS OTHERWISE NOTED.
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0 10 20

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STATE OF IDAHO
MATTHEW B. HILL

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DPW PROJECT #24-246SC
ISU: REPAIR UTILITY TUNNEL, PHASE 3

IDAHO STATE UNIVERSITY

EXISTING SITE PLAN

DRAWN: KJW | CHECK: MBH

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO.
208106-119

SHEET NO.
V-105

Docusign Envelope ID: 60A2C187-3596-4F43-9AA5-EFCED6DF10F0

EXISTING SITE NOTES

1. STEAM AND CONDENSATE LINES ARE IN TUNNELS LOCATED UNDER SIDEWALK PATHS UNLESS OTHERWISE NOTED.
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5. FOR EXISTING IRRIGATION SYSTEM SEE SHEETS 15, 16, 20, 21, 26, AND 27 IN APPENDIX A.

BUSINESS ADMINISTRATION

CH KEGEL LIBERAL ARTS

LEONARD HALL PHARMACY

MATCH LINE SHEET V-107

MATCH LINE SHEET V-103

MATCH LINE SHEET V-104

SHEET KEYNOTES

01	BUILDING	13	CONCRETE STAIRS	62	SITE LIGHTING	76	UNDERGROUND POWER
02	DECIDUOUS TREE	17	CONCRETE PAVING	66	TUNNEL (LOCATED UNDER SIDEWALK OR PAVING)	80	UNDERGROUND COMMUNICATION LINE
07	CONCRETE SIDEWALK	26	SIDEWALK, PAVERS	67	PRESSURE IRRIGATION MAIN LINE	91	COMMUNICATION BOX
08	LANDSCAPING, SOD	34	BLOCK RETAINING WALL	68	IRRIGATION VALVE		
09	LANDSCAPING, MULCH	49	ELECTRICAL METER	71	STORM DRAIN INLET		
10	CHAIN LINK FENCE	50	SANITARY SEWER LINE	73	COMMUNICATIONS CONDUIT		
12	MEMORIAL MARKER	59	ELECTRICAL TRANSFORMER				

0 10 20

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NO.	REVISIONS	DATE

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DPW PROJECT #24-246SC
ISU: REPAIR UTILITY TUNNEL, PHASE 3

IDAHO STATE UNIVERSITY

EXISTING SITE PLAN

DRAWN: KJW | CHECK: MBH

VERIFY SCALE: Scales based on 22"x34" prints.

1-1/2 Inches

PROJECT NO.
208106-119

SHEET NO.
V-106

Docusign Envelope ID: 60A2C187-3596-4F43-9AA5-EFCED6DF10F0

EXISTING SITE NOTES

1. STEAM AND CONDENSATE LINES ARE IN TUNNELS LOCATED UNDER SIDEWALK PATHS UNLESS OTHERWISE NOTED.
2. CONTRACTOR TO VERIFY ALL INFORMATION ON THESE PLANS IN THE FIELD.
3. PIPE SIZES LISTED ON THESE PLANS MAY VARY IN THE FIELD. CONTRACTOR TO FIELD VERIFY.
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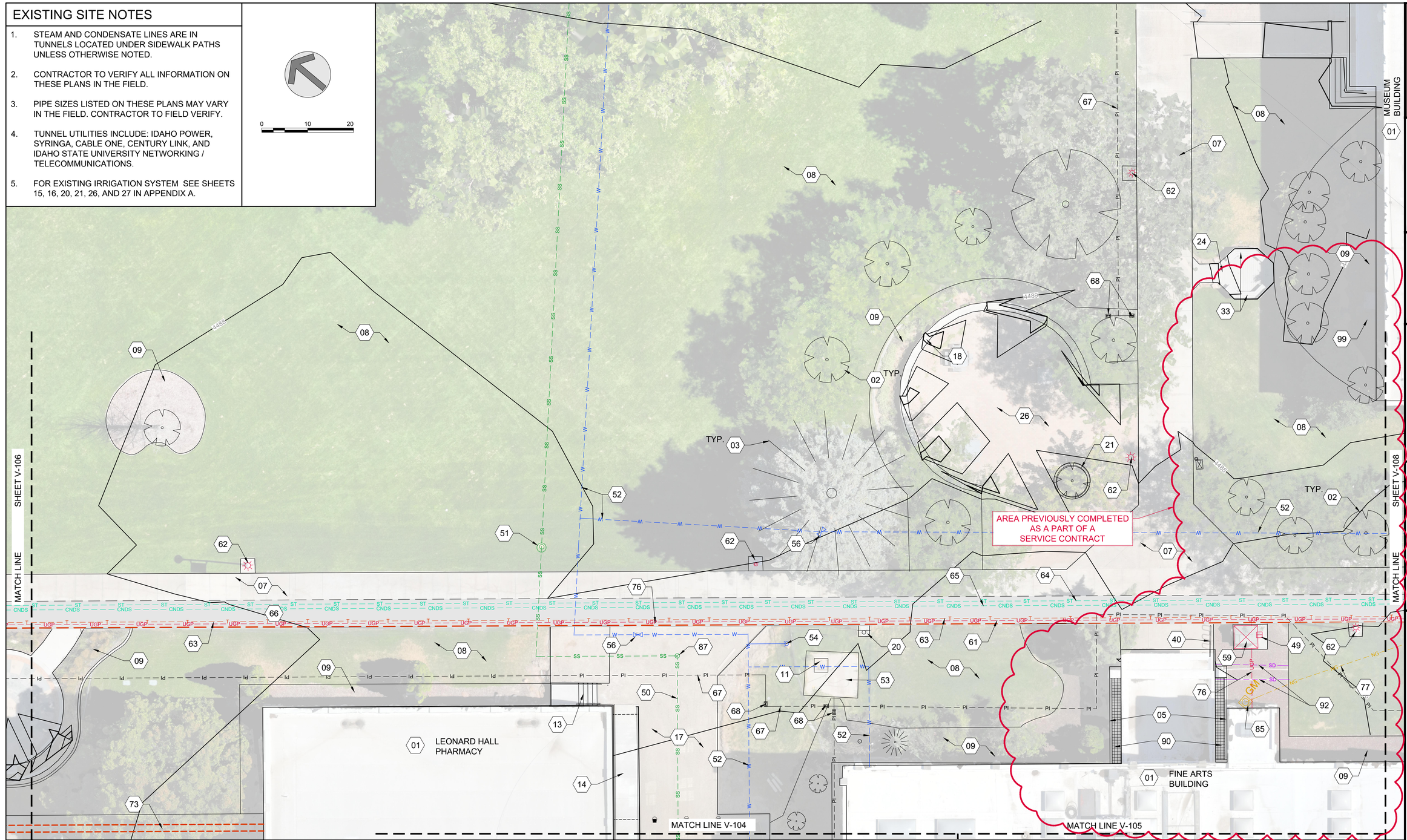
5. FOR EXISTING IRRIGATION SYSTEM SEE SHEETS 15, 16, 20, 21, 26, AND 27 IN APPENDIX A.

0 10 20



SHEET KEYNOTES

01	BUILDING	11	ACCESS HATCH	24	COMPOSITE DECK	52	WATER LINE	61	UNDERGROUND POWER (LOCATED IN TUNNEL)	64	STEAM LINE (LOCATED IN TUNNEL)	68	IRRIGATION VALVE	87	SANITARY SEWER CLEANOUT
02	DECIDUOUS TREE	13	CONCRETE STAIRS	26	SIDEWALK, PAVERS	53	WATER VAULT	62	SITE LIGHTING	65	CONDENSATE LINE (LOCATED IN TUNNEL)	73	COMMUNICATIONS CONDUIT	90	GRATE
03	CONIFEROUS TREE	14	ADA RAMP	33	BENCH	54	FIRE HYDRANT	63	UNDERGROUND COMMUNICATIONS (LOCATED IN TUNNEL)	66	TUNNEL (LOCATED UNDER SIDEWALK OR PAVING)	76	UNDERGROUND POWER	92	4" ROOF DRAIN, PVC ON SURFACE, DRAIN TO GRASS
05	CURB WALL	17	CONCRETE PAVING	40	BIKE RACK	56	WATER VALVE			67	PRESSURE IRRIGATION MAIN LINE	77	NATURAL GAS LINE	99	CHILLER UNITS
07	CONCRETE SIDEWALK	18	CONCRETE RETAINING WALL	49	ELECTRICAL METER	59	ELECTRICAL TRANSFORMER					85	GAS METER		
08	LANDSCAPING, SOD	20	SITE SIGN	50	SANITARY SEWER LINE										
09	LANDSCAPING, MULCH	21	RIBBON CURB	51	SANITARY SEWER MANHOLE										

KELLER ASSOCIATES
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PROFESSIONAL ENGINEER
LICENSE
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8/27/2025
STATE OF IDAHO
MATTHEW B. HILL

NO.	REVISIONS	DATE

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DPW PROJECT #24-246SC
ISU: REPAIR UTILITY TUNNEL, PHASE 3

IDAHO STATE UNIVERSITY

EXISTING SITE PLAN

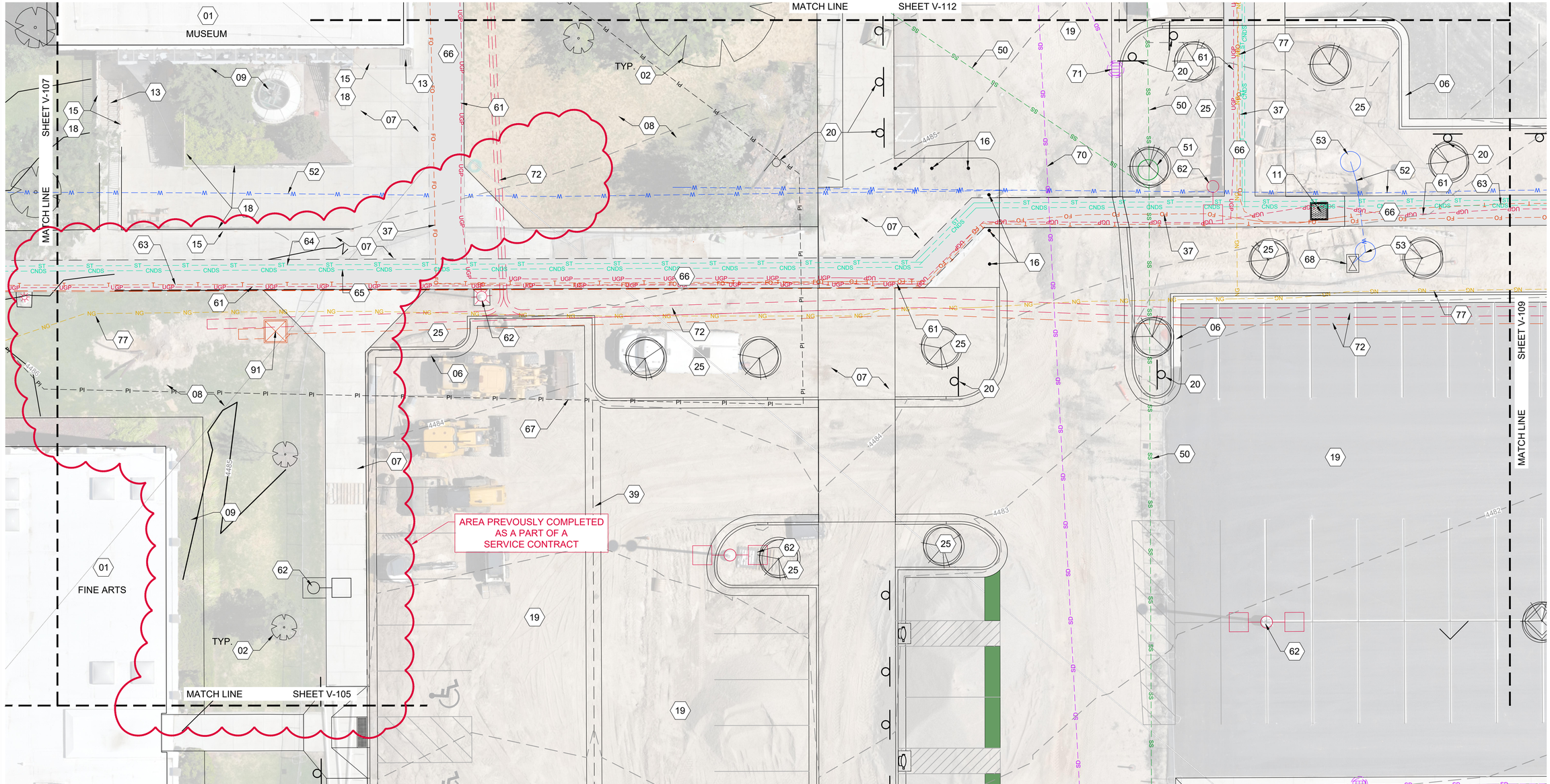
DRAWN: KJW | CHECK: MBH

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO.
208106-119

SHEET NO.
V-107

Docusign Envelope ID: 7D2DA314-2E31-4B12-A562-9E420EB657AC



SHEET KEYNOTES

01	BUILDING
02	DECIDUOUS TREE
06	CURB & GUTTER
07	CONCRETE SIDEWALK
08	LANDSCAPING, SOD
09	LANDSCAPING, MULCH
11	ACCESS HATCH
13	CONCRETE STAIRS
15	RAILING
16	BOLLARD
18	CONCRETE RETAINING WALL
19	ASPHALT PAVING
20	SITE SIGN
25	LANDSCAPING, ARTIFICIAL TURF
37	FIBER OPTIC (LOCATED IN TUNNEL)
39	VALLEY GUTTER
50	SANITARY SEWER LINE
51	SANITARY SEWER MANHOLE
52	WATER LINE
53	WATER VAULT
61	UNDERGROUND POWER (LOCATED IN TUNNEL)
62	SITE LIGHTING
63	UNDERGROUND COMMUNICATIONS (LOCATED IN TUNNEL)
64	STEAM LINE (LOCATED IN TUNNEL)
65	CONDENSATE LINE (LOCATED IN TUNNEL)
66	TUNNEL (LOCATED UNDER SIDEWALK OR PAVING)
67	PRESSURE IRRIGATION MAIN LINE
68	IRRIGATION VALVE
70	STORM DRAIN LINE
71	STORM DRAIN INLET
72	CONDUIT BANK, EMPTY (FOR FUTURE POWER AND COMMUNICATION LINES)
77	NATURAL GAS LINE
91	COMMUNICATION BOX

EXISTING SITE NOTES

1. STEAM AND CONDENSATE LINES ARE IN TUNNELS LOCATED UNDER SIDEWALK PATHS UNLESS OTHERWISE NOTED.
2. CONTRACTOR TO VERIFY ALL INFORMATION ON THESE PLANS IN THE FIELD.
3. PIPE SIZES LISTED ON THESE PLANS MAY VARY IN THE FIELD. CONTRACTOR TO FIELD VERIFY.
4. TUNNEL UTILITIES INCLUDE: IDAHO POWER, SYRINGA, CABLE ONE, CENTURY LINK, AND IDAHO STATE UNIVERSITY NETWORKING / TELECOMMUNICATIONS.
5. FOR EXISTING IRRIGATION SYSTEM SEE SHEETS 15, 16, 20, 21, 26, AND 27 IN APPENDIX A.

0 10 20

KELLER ASSOCIATES
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PROFESSIONAL ENGINEER
LICENSE NUMBER
15381
8/27/2025
STATE OF IDAHO
MATTHEW B. HILL

NO.	REVISIONS	DATE

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DPW PROJECT #24-246SC
ISU: REPAIR UTILITY TUNNEL, PHASE 3

IDAHO STATE UNIVERSITY

EXISTING SITE PLAN

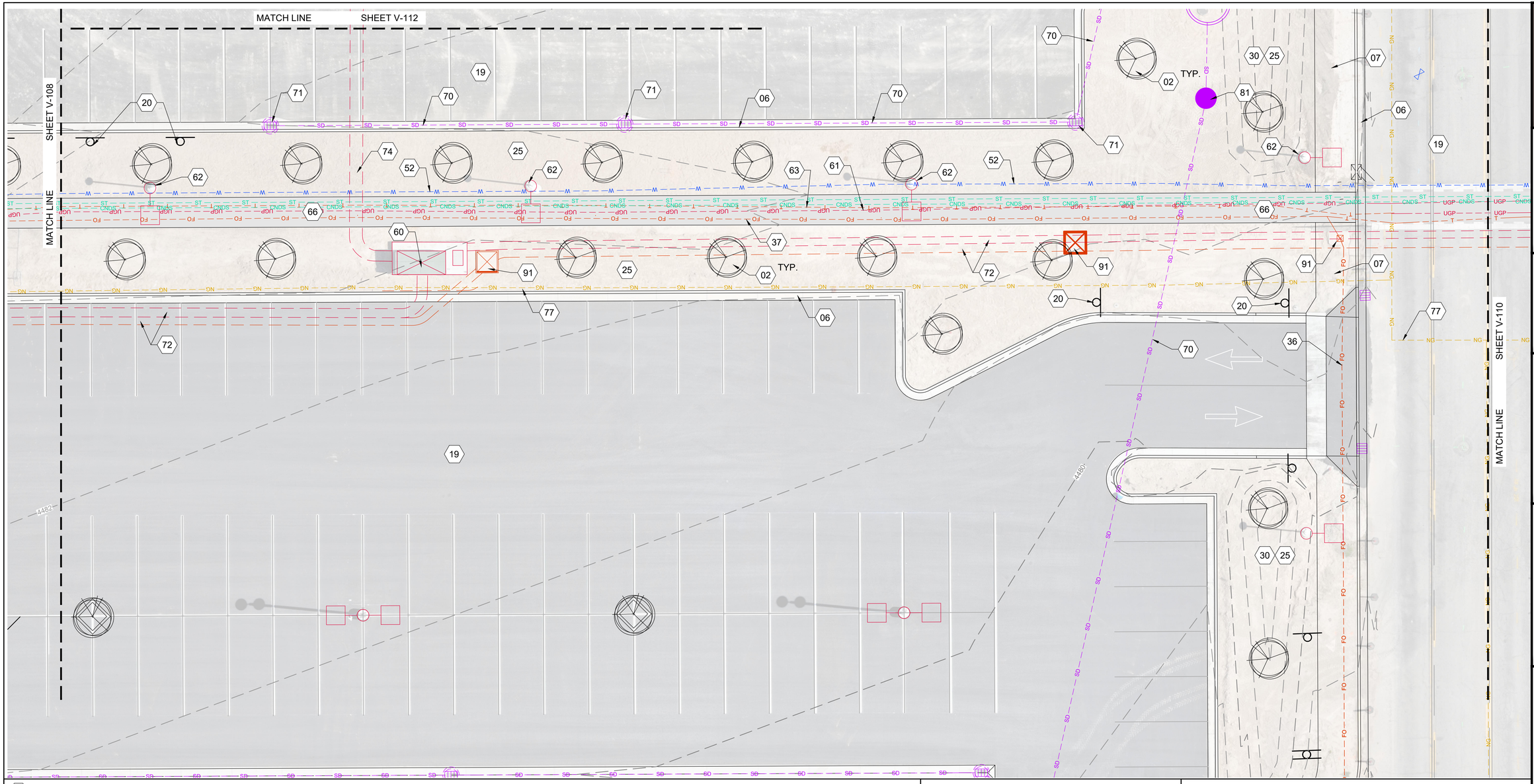
DRAWN: KJW | CHECK: MBH

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO.
208106-119

SHEET NO.
V-108

Docusign Envelope ID: 7D2DA314-2E31-4B12-A562-9E420EB657AC



SHEET KEYNOTES

01	BUILDING	36	FIBER OPTIC, UNDERGROUND	77	NATURAL GAS LINE
02	DECIDUOUS TREE	38	COMMUNICATIONS RISER	80	UNDERGROUND COMMUNICATION LINE
03	CONIFEROUS TREE	50	SANITARY SEWER LINE	91	COMMUNICATION BOX
05	CURB WALL	51	SANITARY SEWER MANHOLE		
06	CURB & GUTTER	52	WATER LINE		
07	CONCRETE SIDEWALK	54	FIRE HYDRANT		
08	LANDSCAPING, SOD	56	WATER VALVE		
09	LANDSCAPING, MULCH	59	ELECTRICAL TRANSFORMER		
13	CONCRETE STAIRS	61	UNDERGROUND POWER (LOCATED IN TUNNEL)		
15	RAILING	62	SITE LIGHTING		
17	CONCRETE PAVING	66	TUNNEL (LOCATED UNDER SIDEWALK OR PAVING)		
18	CONCRETE RETAINING WALL	68	IRRIGATION VALVE		
19	ASPHALT PAVING	72	CONDUIT BANK, EMPTY (FOR FUTURE POWER AND COMMUNICATION LINES)		
20	SITE SIGN	76	UNDERGROUND POWER		
29	LANDSCAPING, ROCK MULCH				

EXISTING SITE NOTES

1. STEAM AND CONDENSATE LINES ARE IN TUNNELS LOCATED UNDER SIDEWALK PATHS UNLESS OTHERWISE NOTED.
2. CONTRACTOR TO VERIFY ALL INFORMATION ON THESE PLANS IN THE FIELD.
3. PIPE SIZES LISTED ON THESE PLANS MAY VARY IN THE FIELD. CONTRACTOR TO FIELD VERIFY.
4. TUNNEL UTILITIES INCLUDE: IDAHO POWER, SYRINGA, CABLE ONE, CENTURY LINK, AND IDAHO STATE UNIVERSITY NETWORKING / TELECOMMUNICATIONS.
5. FOR EXISTING IRRIGATION SYSTEM SEE SHEETS 15, 16, 20, 21, 26, AND 27 IN APPENDIX A.

0 10 20

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PROFESSIONAL ENGINEER
LICENSE NUMBER
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8/27/2025
STATE OF IDAHO
MATTHEW B. HILL

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DPW PROJECT #24-246SC
ISU: REPAIR UTILITY TUNNEL, PHASE 3

IDAHO STATE UNIVERSITY

EXISTING SITE PLAN

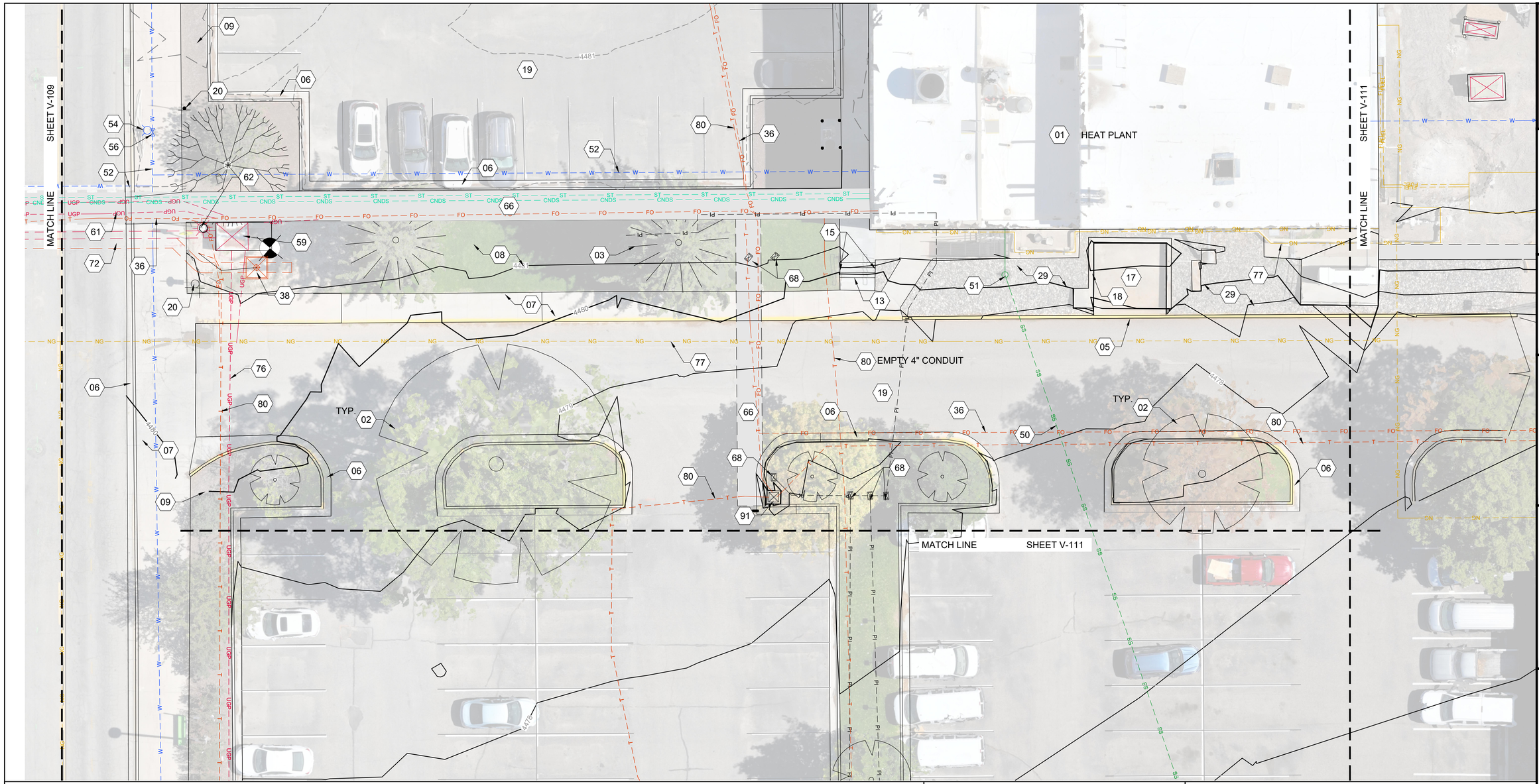
DRAWN: KJW | CHECK: MBH

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO.
208106-119

SHEET NO.
V-109

Docusign Envelope ID: 7D2DA314-2E31-4B12-A562-9E420EB657AC



SHEET KEYNOTES

01	BUILDING	50	SANITARY SEWER LINE
02	DECIDUOUS TREE	51	SANITARY SEWER MANHOLE
03	CONIFEROUS TREE	52	WATER LINE
05	CURB WALL	54	FIRE HYDRANT
06	CURB & GUTTER	56	WATER VALVE
07	CONCRETE SIDEWALK	59	ELECTRICAL TRANSFORMER
08	LANDSCAPING, SOD	61	UNDERGROUND POWER (LOCATED IN TUNNEL)
09	LANDSCAPING, MULCH	62	SITE LIGHTING
13	CONCRETE STAIRS	66	TUNNEL (LOCATED UNDER SIDEWALK OR PAVING)
15	RAILING	68	IRRIGATION VALVE
17	CONCRETE PAVING	72	CONDUIT BANK, EMPTY (FOR FUTURE POWER AND COMMUNICATION LINES)
18	CONCRETE RETAINING WALL	76	UNDERGROUND POWER
19	ASPHALT PAVING	77	NATURAL GAS LINE
20	SITE SIGN	80	UNDERGROUND COMMUNICATION LINE
29	LANDSCAPING, ROCK MULCH	91	COMMUNICATION BOX
36	FIBER OPTIC, UNDERGROUND		
38	COMMUNICATIONS RISER		

EXISTING SITE NOTES

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2. CONTRACTOR TO VERIFY ALL INFORMATION ON THESE PLANS IN THE FIELD.
3. PIPE SIZES LISTED ON THESE PLANS MAY VARY IN THE FIELD. CONTRACTOR TO FIELD VERIFY.
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5. FOR EXISTING IRRIGATION SYSTEM SEE SHEETS 15, 16, 20, 21, 26, AND 27 IN APPENDIX A.

0 10 20

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PROFESSIONAL ENGINEER
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15381
8/27/2025
STATE OF IDAHO
MATTHEW B. HILL

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DPW PROJECT #24-246SC
ISU: REPAIR UTILITY TUNNEL, PHASE 3

IDAHO STATE UNIVERSITY

EXISTING SITE PLAN

DRAWN: KJW | CHECK: MBH

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO.
208106-119

SHEET NO.
V-110

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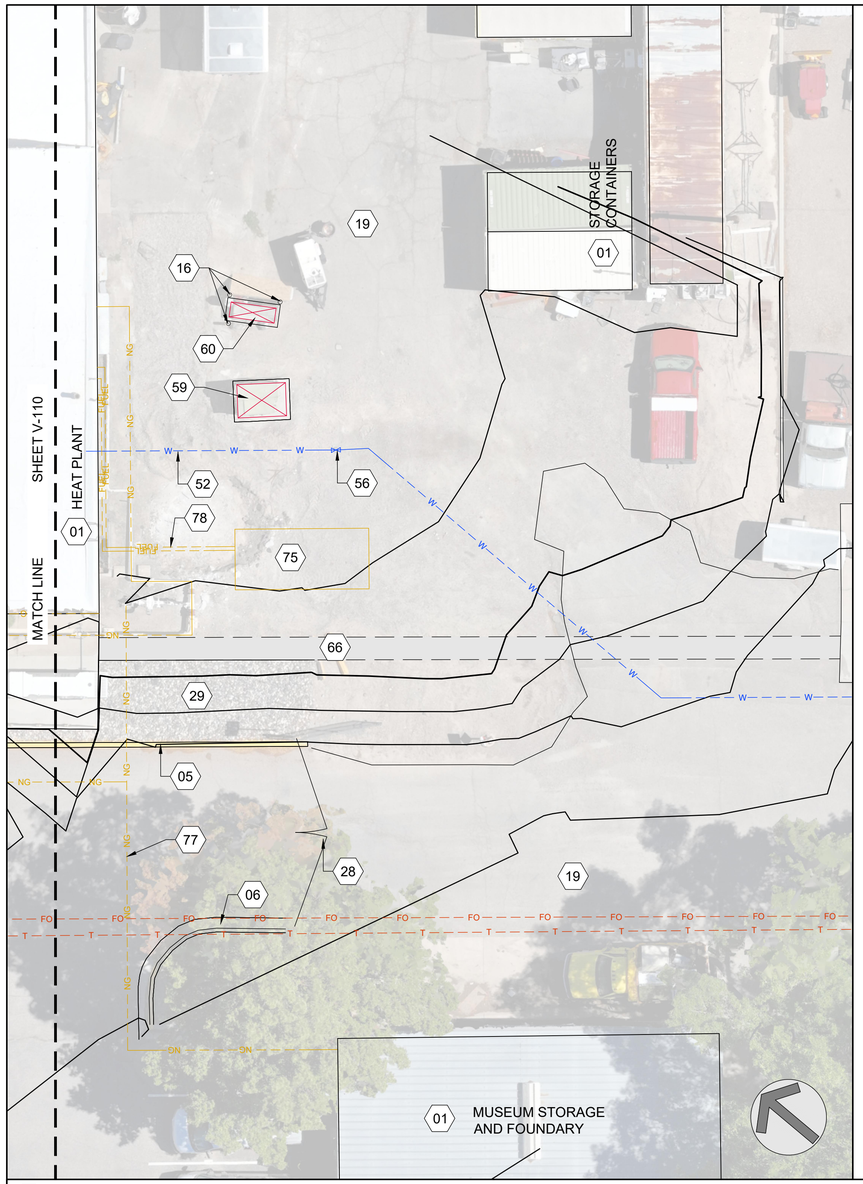

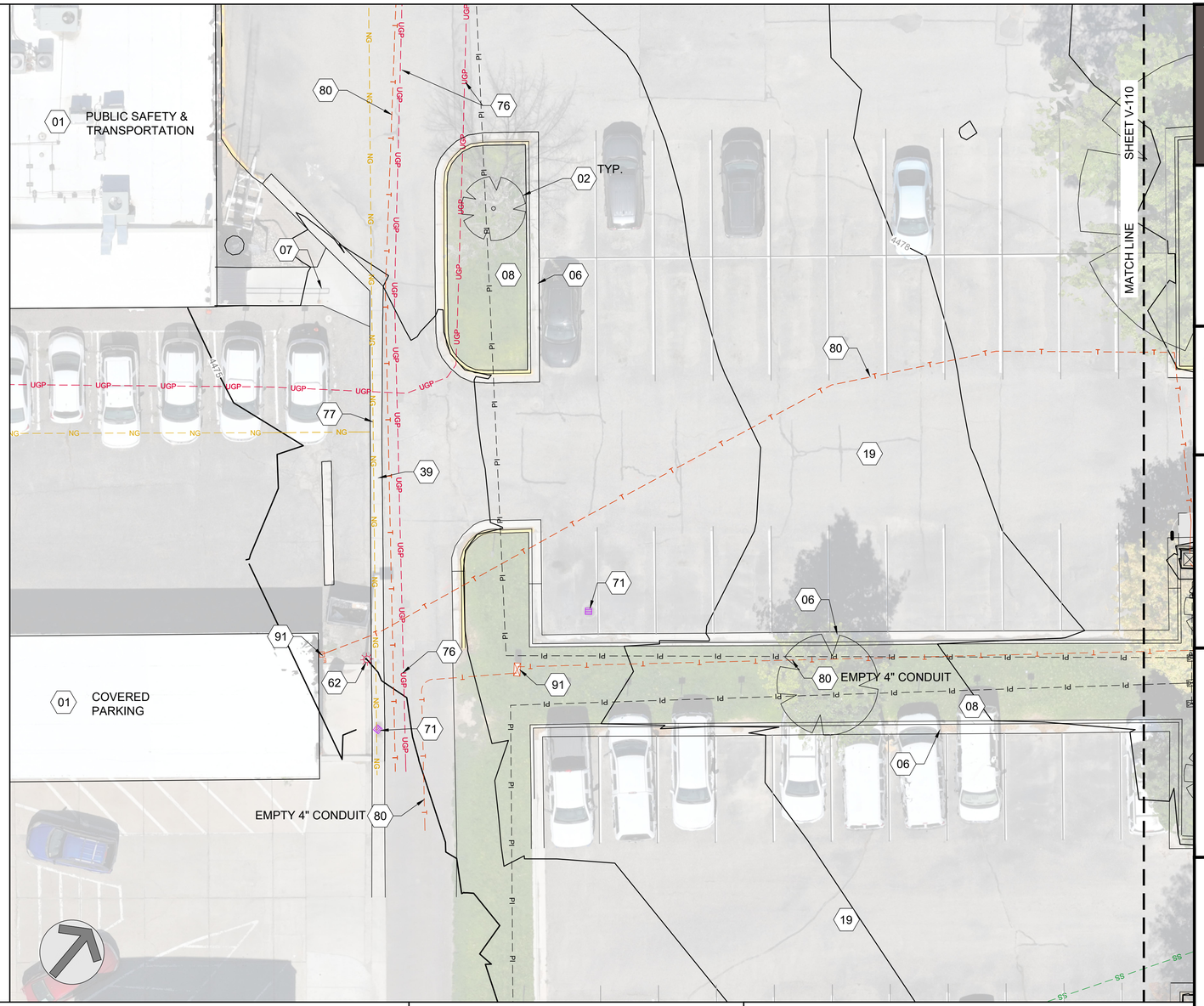

SHEET KEYNOTES

01	BUILDING
02	DECIDUOUS TREE
05	CURB WALL
06	CURB & GUTTER
07	CONCRETE SIDEWALK
08	LANDSCAPING, SOD
16	BOLLARD
19	ASPHALT PAVING
28	GATE
29	LANDSCAPING, ROCK MULCH
39	VALLEY GUTTER
52	WATER LINE
56	WATER VALVE
59	ELECTRICAL TRANSFORMER
60	ELECTRICAL SWITCH GEAR
62	SITE LIGHTING
66	TUNNEL (LOCATED UNDER SIDEWALK OR PAVING)
71	STORM DRAIN INLET
75	FUEL TANK
76	UNDERGROUND POWER
77	NATURAL GAS LINE
78	FUEL LINES
80	UNDERGROUND COMMUNICATION LINE
91	COMMUNICATION BOX

EXISTING SITE NOTES

1. STEAM AND CONDENSATE LINES ARE IN TUNNELS LOCATED UNDER SIDEWALK PATHS UNLESS OTHERWISE NOTED.
2. CONTRACTOR TO VERIFY ALL INFORMATION ON THESE PLANS IN THE FIELD.
3. PIPE SIZES LISTED ON THESE PLANS MAY VARY IN THE FIELD. CONTRACTOR TO FIELD VERIFY.
4. TUNNEL UTILITIES INCLUDE: IDAHO POWER, SYRINGA, CABLE ONE, CENTURY LINK, AND IDAHO STATE UNIVERSITY NETWORKING / TELECOMMUNICATIONS.
5. FOR EXISTING IRRIGATION SYSTEM SEE SHEETS 15, 16, 20, 21, 26, AND 27 IN APPENDIX A.

0 10 20

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8/27/2025
STATE OF IDAHO
MATTHEW B. HILL

NO.	REVISIONS	DATE

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DPW PROJECT #24-246SC
ISU: REPAIR UTILITY TUNNEL, PHASE 3

IDAHO STATE UNIVERSITY

EXISTING SITE PLAN

DRAWN: KJW | CHECK: MBH

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO.
208106-119

SHEET NO.
V-111

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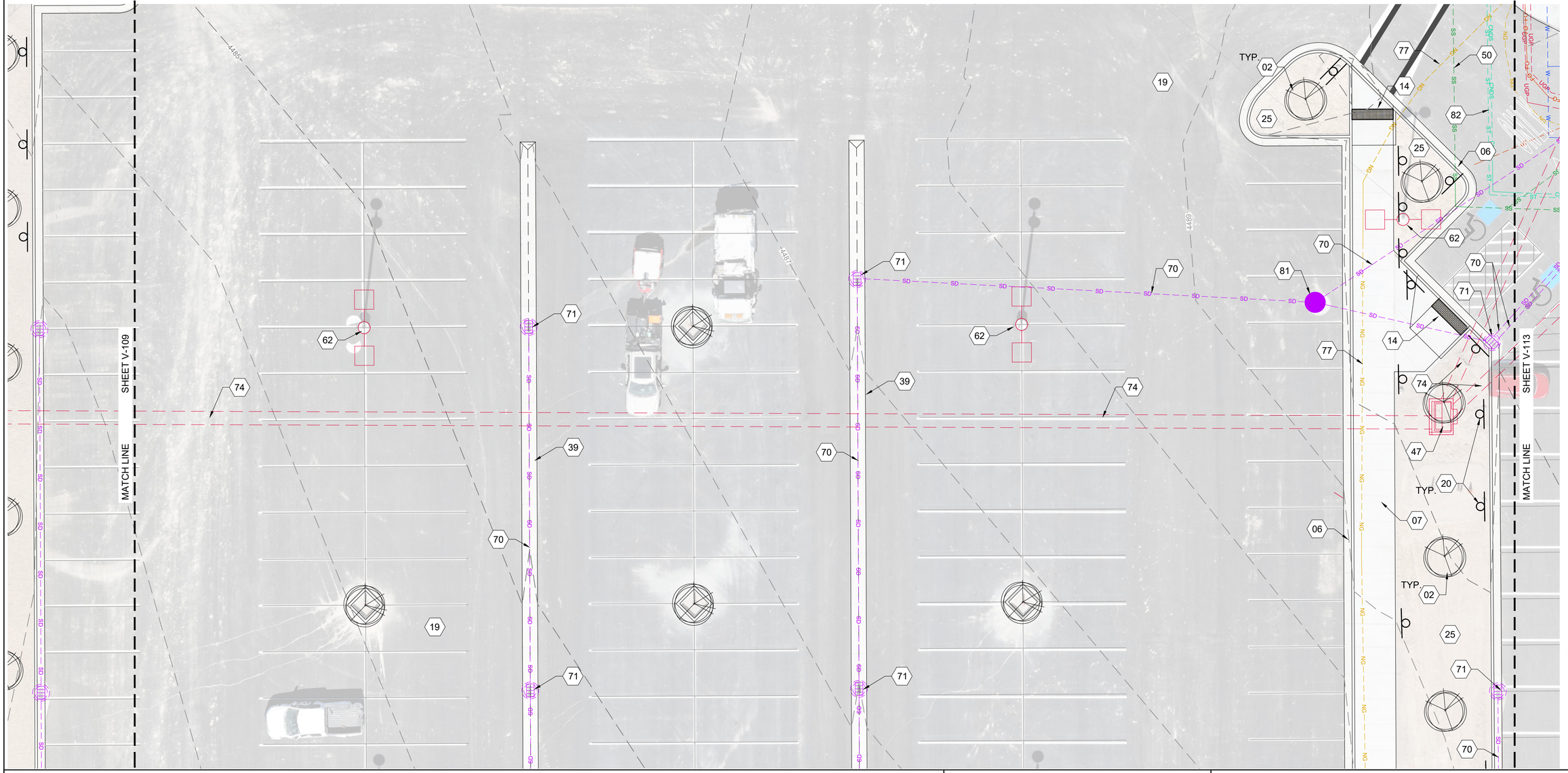

SHEET KEYNOTES

02	DECIDUOUS TREE
06	CURB & GUTTER
07	CONCRETE SIDEWALK
14	ADA RAMP
19	ASPHALT PAVING
20	SITE SIGN
25	LANDSCAPING, ARTIFICIAL TURF
39	VALLEY GUTTER
47	CONCRETE PAD FOR FUTURE TRANSFORMER
50	SANITARY SEWER LINE
62	SITE LIGHTING
70	STORM DRAIN LINE
71	STORM DRAIN INLET
74	CONDUIT BANK, EMPTY (FOR FUTURE POWER LINES)
77	NATURAL GAS LINE
81	STORM DRAIN MANHOLE
82	STEAM AND CONDENSATE BANK TO BUILDING

EXISTING SITE NOTES

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0 10 20

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Docusigned by: Matt Bair
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MATTHEW B. HILL

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DPW PROJECT #24-246SC
ISU: REPAIR UTILITY TUNNEL, PHASE 3

IDAHO STATE UNIVERSITY

EXISTING SITE PLAN

DRAWN: KJW | CHECK: MBH

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO.
208106-119

SHEET NO.
V-112

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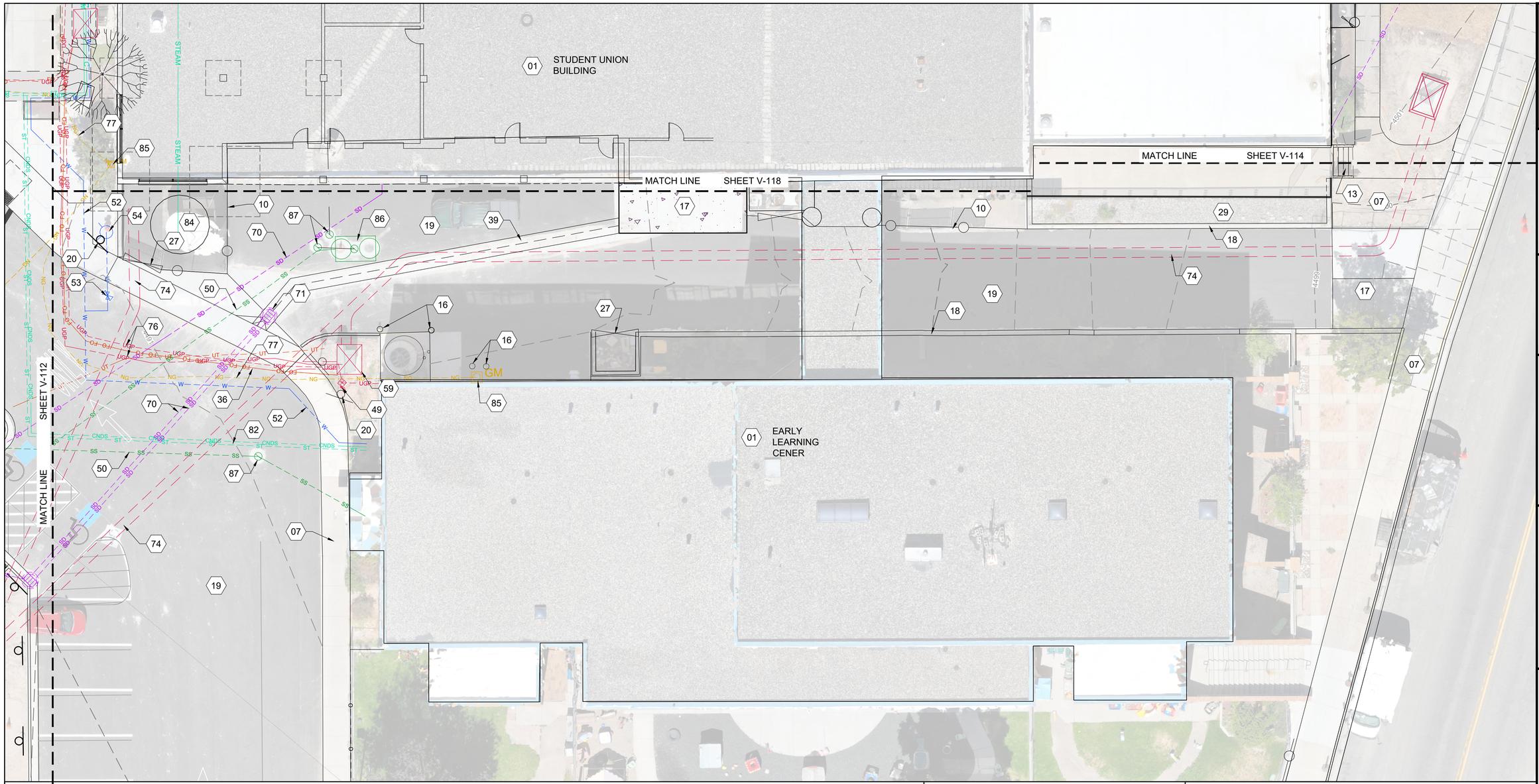

SHEET KEYNOTES

01	BUILDING	54	FIRE HYDRANT
07	CONCRETE SIDEWALK	59	ELECTRICAL TRANSFORMER
10	CHAIN LINK FENCE	70	STORM DRAIN LINE
13	CONCRETE STAIRS	71	STORM DRAIN INLET
16	BOLLARD	74	CONDUIT BANK, EMPTY (FOR FUTURE POWER LINES)
17	CONCRETE PAVING	76	UNDERGROUND POWER
18	CONCRETE RETAINING WALL	77	NATURAL GAS LINE
19	ASPHALT PAVING	82	STEAM AND CONDENSATE BANK TO BUILDING
20	SITE SIGN	84	SATELLITE DISH
27	ENCLOSURE GATE	85	GAS METER
29	LANDSCAPING, ROCK MULCH	86	GREASE TRAP
36	FIBER OPTIC, UNDERGROUND	87	SANITARY SEWER CLEANOUT
39	VALLEY GUTTER		
49	ELECTRICAL METER		
50	SANITARY SEWER LINE		
52	WATER LINE		
53	WATER VAULT		

EXISTING SITE NOTES

1. STEAM AND CONDENSATE LINES ARE IN TUNNELS LOCATED UNDER SIDEWALK PATHS UNLESS OTHERWISE NOTED.
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5. FOR EXISTING IRRIGATION SYSTEM SEE SHEETS 15, 16, 20, 21, 26, AND 27 IN APPENDIX A.

0 10 20

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STATE OF IDAHO
MATTHEW B. HILL

NO.	REVISIONS	DATE

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DPW PROJECT #24-246SC
ISU: REPAIR UTILITY TUNNEL, PHASE 3

IDAHO STATE UNIVERSITY

EXISTING SITE PLAN

DRAWN: KJW | CHECK: MBH

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO.
208106-119

SHEET NO.
V-113

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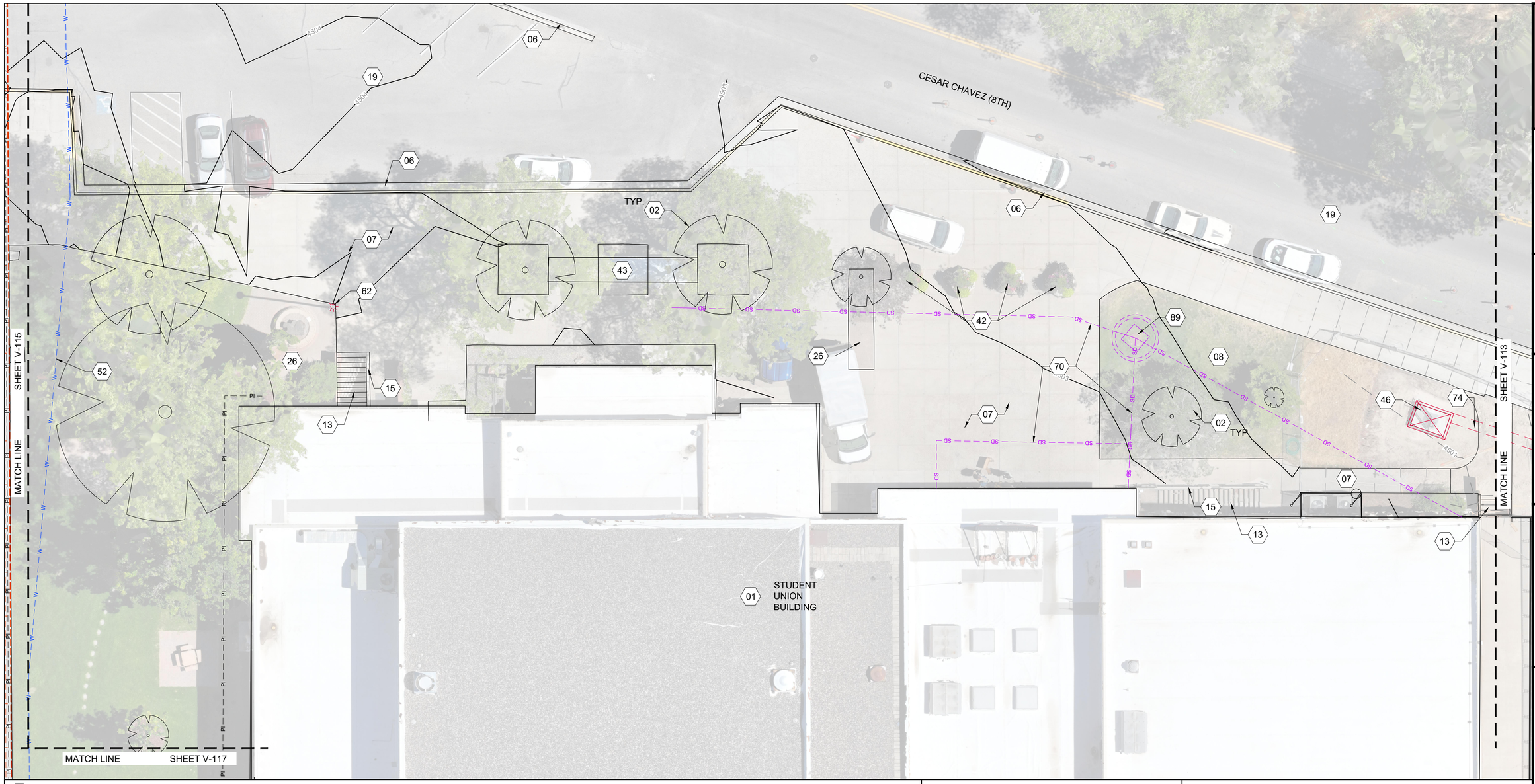

SHEET KEYNOTES

01	BUILDING	89	STORM DRAIN INFILTRATION DRY WELL
02	DECIDUOUS TREE		
06	CURB & GUTTER		
07	CONCRETE SIDEWALK		
08	LANDSCAPING, SOD		
13	CONCRETE STAIRS		
15	RAILING		
19	ASPHALT PAVING		
26	SIDEWALK, PAVERS		
42	LANDSCAPE, CONTAINER PLANTINGS		
43	BUS STOP SHELTER		
46	IDAHO POWER SECTIONALIZER		
52	WATER LINE		
62	SITE LIGHTING		
70	STORM DRAIN LINE		
74	CONDUIT BANK, EMPTY (FOR FUTURE POWER LINES)		

EXISTING SITE NOTES

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0 10 20

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PROFESSIONAL ENGINEER
Docusigned by: Matt Bill
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8/27/2024
STATE OF IDAHO
MATTHEW B. HILL

NO.	REVISIONS	DATE

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DPW PROJECT #24-246SC
ISU: REPAIR UTILITY TUNNEL, PHASE 3

IDAHO STATE UNIVERSITY

EXISTING SITE PLAN

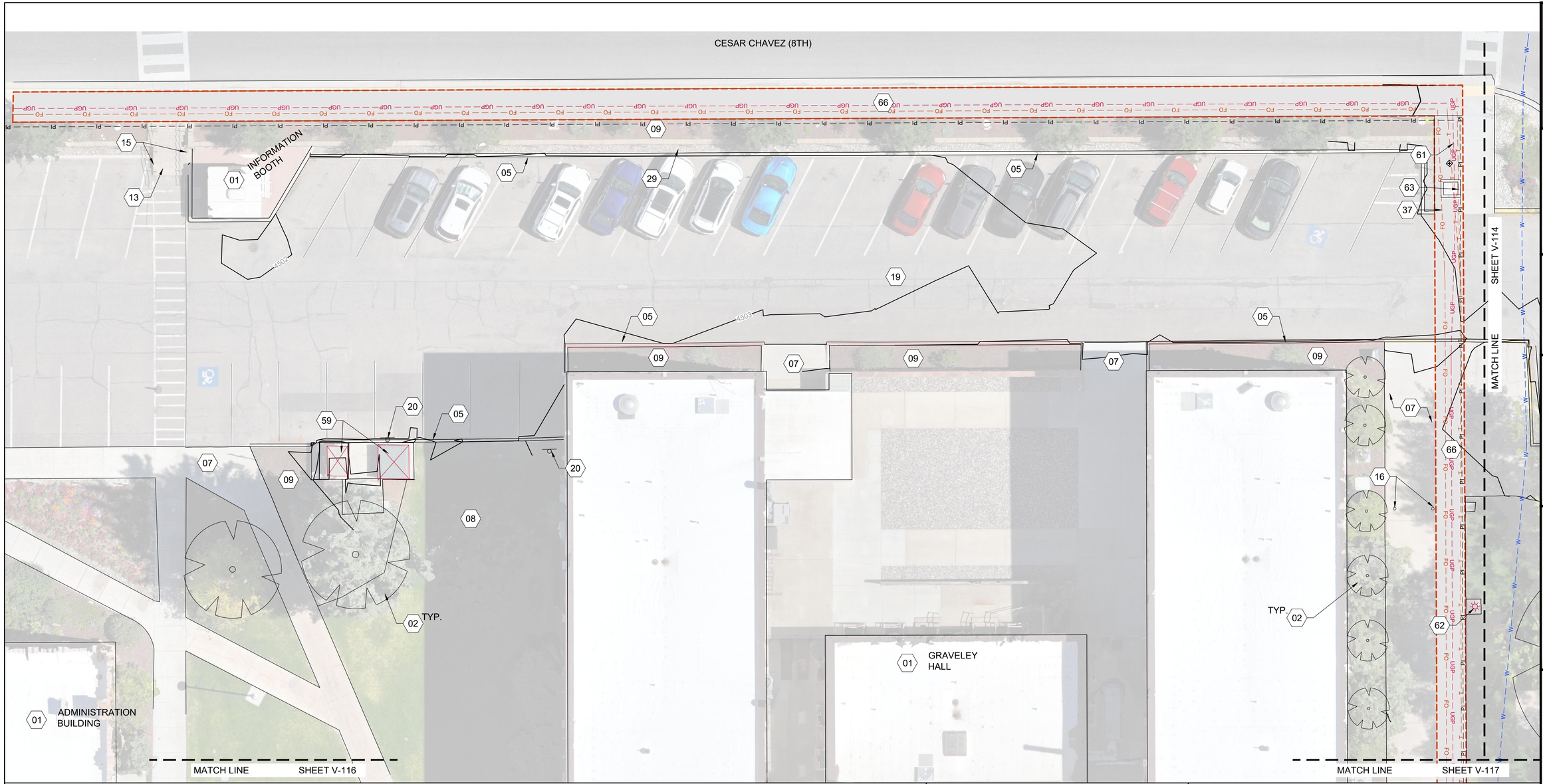
DRAWN: KJW | CHECK: MBH

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO.
208106-119

SHEET NO.
V-114

Docusign Envelope ID: 5FB7BCE3-57E3-4D41-AD66-FA37D50B1FEC



SHEET KEYNOTES

01 BUILDING
02 DECIDUOUS TREE
05 CURB WALL
07 CONCRETE SIDEWALK
08 LANDSCAPING, SOD
09 LANDSCAPING, MULCH
13 CONCRETE STAIRS
15 RAILING
16 BOLLARD
19 ASPHALT PAVING
20 SITE SIGN
29 LANDSCAPING, ROCK MULCH
37 FIBER OPTIC (LOCATED IN TUNNEL)
59 ELECTRICAL TRANSFORMER
61 UNDERGROUND POWER (LOCATED IN TUNNEL)
62 SITE LIGHTING
63 UNDERGROUND COMMUNICATIONS (LOCATED IN TUNNEL)
66 TUNNEL (LOCATED UNDER SIDEWALK OR PAVING)

EXISTING SITE NOTES

1. STEAM AND CONDENSATE LINES ARE IN TUNNELS LOCATED UNDER SIDEWALK PATHS UNLESS OTHERWISE NOTED.
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DPW PROJECT #24-246SC
ISU: REPAIR UTILITY TUNNEL, PHASE 3

IDAHO STATE UNIVERSITY

EXISTING SITE PLAN

DRAWN: KJW | CHECK: MBH

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO.
208106-119

SHEET NO.
V-115

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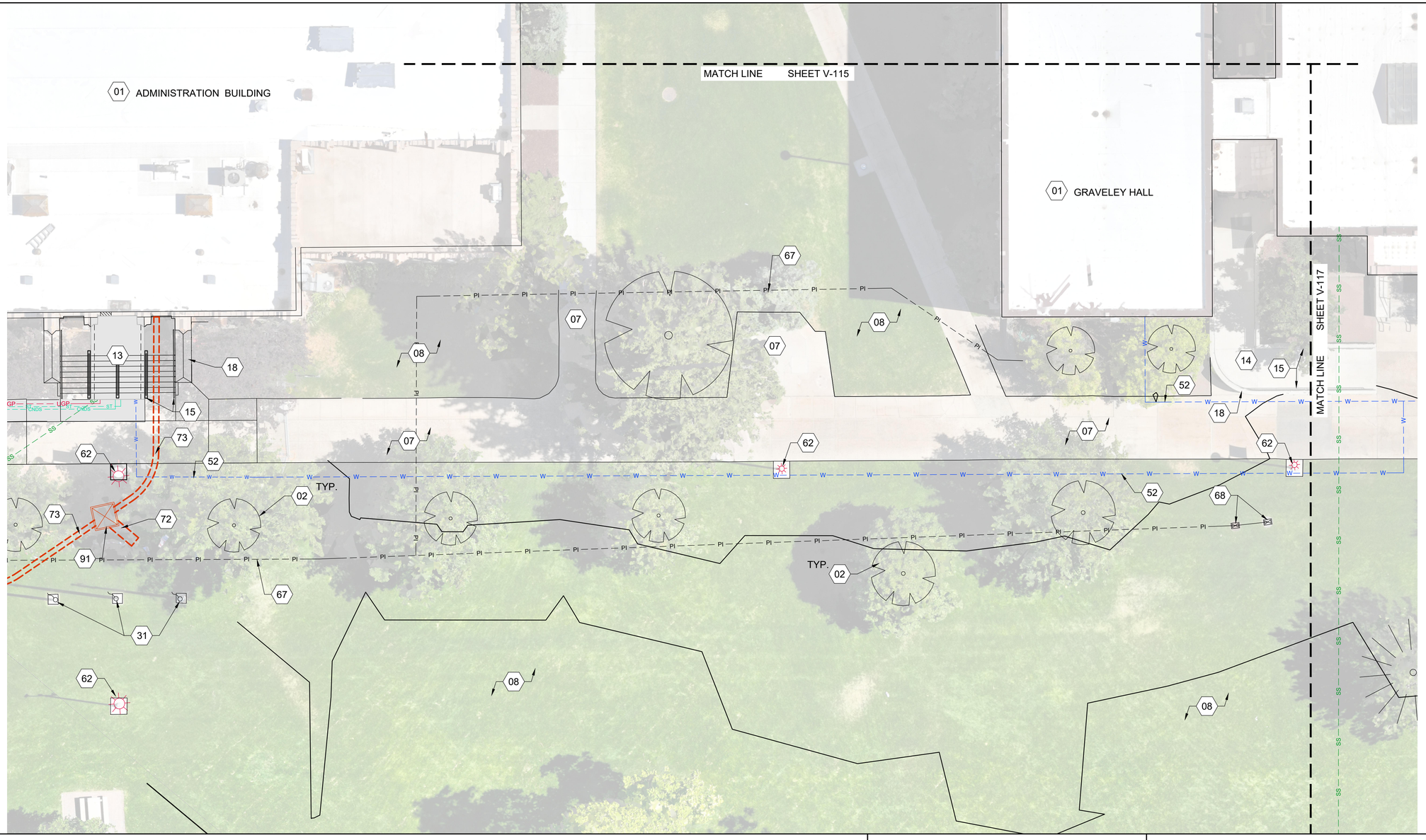

SHEET KEYNOTES

01	BUILDING
02	DECIDUOUS TREE
07	CONCRETE SIDEWALK
08	LANDSCAPING, SOD
13	CONCRETE STAIRS
14	ADA RAMP
15	RAILING
18	CONCRETE RETAINING WALL
31	FLAG POLE
52	WATER LINE
62	SITE LIGHTING
67	PRESSURE IRRIGATION MAIN LINE
68	IRRIGATION VALVE
72	CONDUIT BANK, EMPTY (FOR FUTURE POWER AND COMMUNICATION LINES)
73	COMMUNICATIONS CONDUIT
91	COMMUNICATION BOX

EXISTING SITE NOTES

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DPW PROJECT #24-246SC
ISU: REPAIR UTILITY TUNNEL, PHASE 3

IDAHO STATE UNIVERSITY

EXISTING SITE PLAN

DRAWN: KJW CHECK: MBH

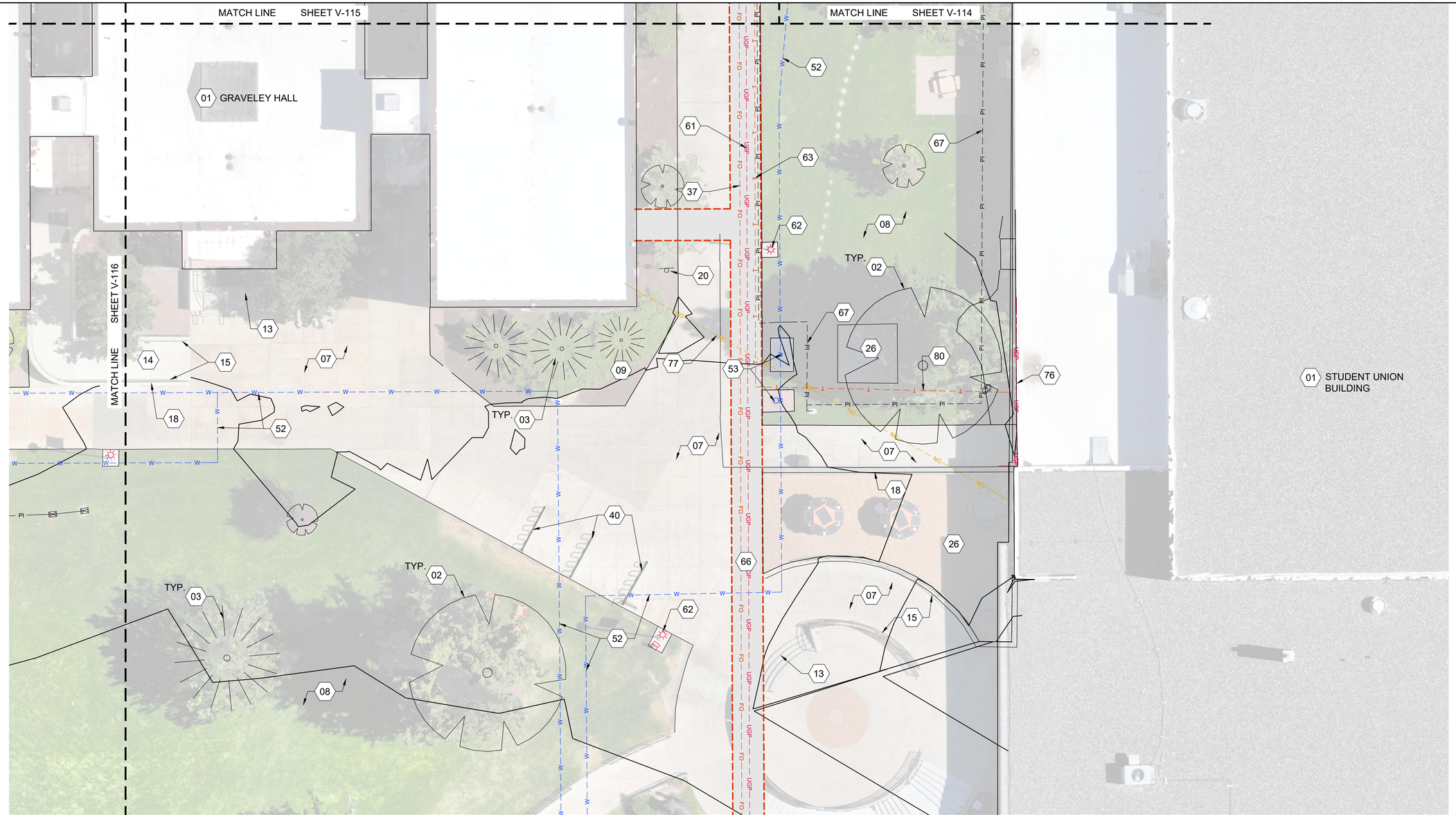
VERIFY SCALE: Scales based on 22"x34" prints.

1-1/2 Inches

PROJECT NO.
208106-119

SHEET NO.
V-116

Docusign Envelope ID: 81137EF1-A4C1-43BD-A5B0-BA5CD3248E3A



SHEET KEYNOTES

01	BUILDING
02	DECIDUOUS TREE
03	CONIFEROUS TREE
07	CONCRETE SIDEWALK
08	LANDSCAPING, SOD
09	LANDSCAPING, MULCH
13	CONCRETE STAIRS
14	ADA RAMP
15	RAILING
18	CONCRETE RETAINING WALL
20	SITE SIGN
26	SIDEWALK, PAVERS
37	FIBER OPTIC (LOCATED IN TUNNEL)
40	BIKE RACK
52	WATER LINE
53	WATER VAULT
61	UNDERGROUND POWER (LOCATED IN TUNNEL)
62	SITE LIGHTING
63	UNDERGROUND COMMUNICATIONS (LOCATED IN TUNNEL)
66	TUNNEL (LOCATED UNDER SIDEWALK OR PAVING)
67	PRESSURE IRRIGATION MAIN LINE
76	UNDERGROUND POWER
77	NATURAL GAS LINE
80	UNDERGROUND COMMUNICATION LINE

EXISTING SITE NOTES

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3. PIPE SIZES LISTED ON THESE PLANS MAY VARY IN THE FIELD. CONTRACTOR TO FIELD VERIFY.
4. TUNNEL UTILITIES INCLUDE: IDAHO POWER, SYRINGA, CABLE ONE, CENTURY LINK, AND IDAHO STATE UNIVERSITY NETWORKING / TELECOMMUNICATIONS.
5. FOR EXISTING IRRIGATION SYSTEM SEE SHEETS 15, 16, 20, 21, 26, AND 27 IN APPENDIX A.

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8/27/2025
STATE OF IDAHO
MATTHEW B. HILL

NO.	REVISIONS	DATE

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DPW PROJECT #24-246SC
ISU: REPAIR UTILITY TUNNEL, PHASE 3

IDAHO STATE UNIVERSITY

EXISTING SITE PLAN

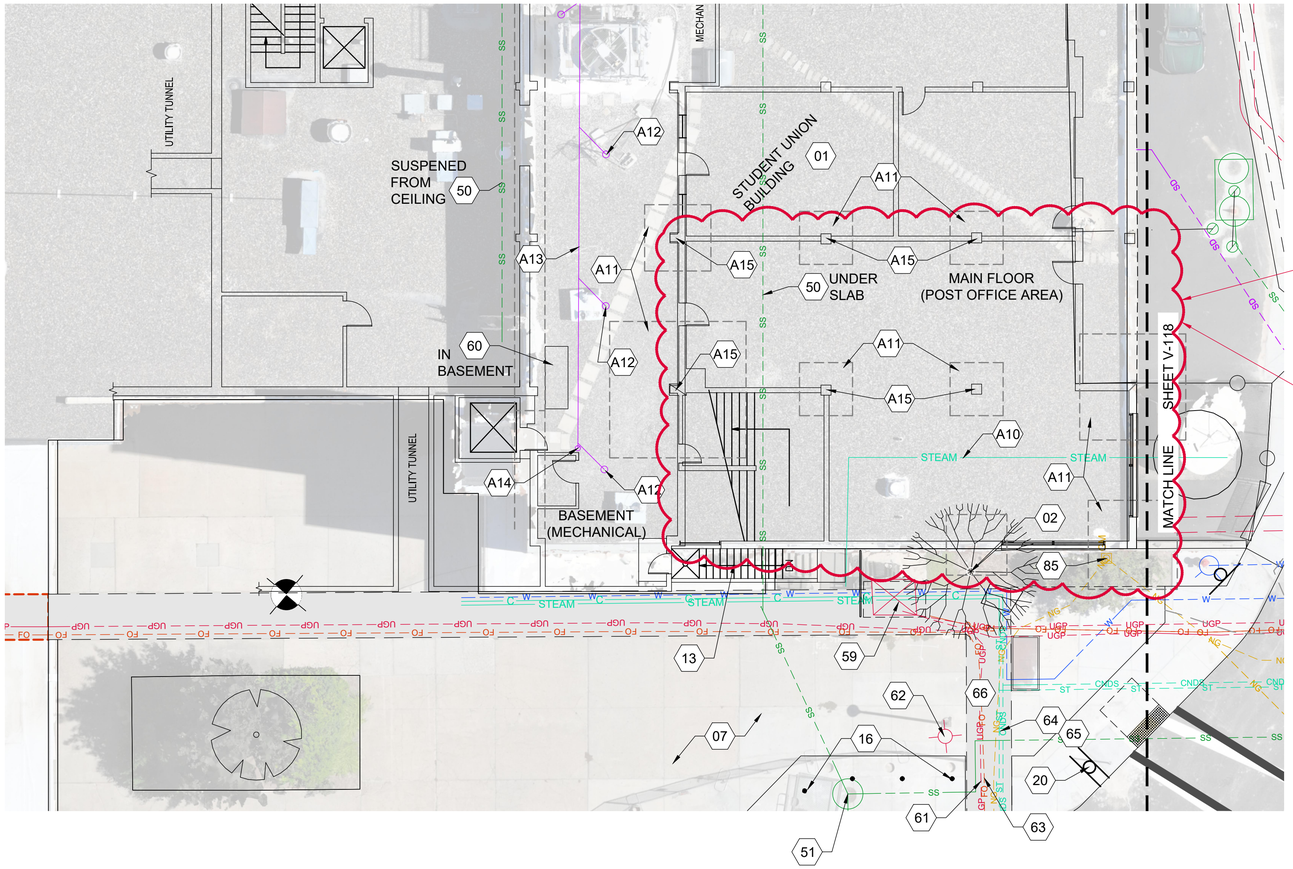
DRAWN: KJW | CHECK: MBH

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO. 208106-119

SHEET NO. V-117

Docusign Envelope ID: 81137EF1-A4C1-43BD-A5B0-BA5CD3248E3A



SHEET KEYNOTES

01	BUILDING
02	DECIDUOUS TREE
07	CONCRETE SIDEWALK
13	CONCRETE STAIRS
16	BOLLARD
20	SITE SIGN
50	SANITARY SEWER LINE
51	SANITARY SEWER MANHOLE
59	ELECTRICAL TRANSFORMER
60	ELECTRICAL SWITCH GEAR
61	UNDERGROUND POWER (LOCATED IN TUNNEL)
62	SITE LIGHTING
63	UNDERGROUND COMMUNICATIONS (LOCATED IN TUNNEL)
64	STEAM LINE (LOCATED IN TUNNEL)
65	CONDENSATE LINE (LOCATED IN TUNNEL)
66	TUNNEL (LOCATED UNDER SIDEWALK OR PAVING)
85	GAS METER
A10	POSSIBLE ABANDONED STEAM/CONDENSATE LINE (FIELD VERIFY LOCATION AND DEPTH), UNDER CONCRETE FLOOR
A11	BULDING FOOTINGS
A12	FLOOR DRAIN
A13	DRAIN PIPE, UNDER SLAB
A14	DRAIN PIPE CLEAN OUT
A15	BUILDING INTERIOR COLUMN

EXISTING SITE NOTES

1. STEAM AND CONDENSATE LINES ARE IN TUNNELS LOCATED UNDER SIDEWALK PATHS UNLESS OTHERWISE NOTED.
2. CONTRACTOR TO VERIFY ALL INFORMATION ON THESE PLANS IN THE FIELD.
3. PIPE SIZES LISTED ON THESE PLANS MAY VARY IN THE FIELD. CONTRACTOR TO FIELD VERIFY.
4. TUNNEL UTILITIES INCLUDE: IDAHO POWER, SYRINGA, CABLE ONE, CENTURY LINK, AND IDAHO STATE UNIVERSITY NETWORKING / TELECOMMUNICATIONS.
5. FOR EXISTING IRRIGATION SYSTEM SEE SHEETS 15, 16, 20, 21, 26, AND 27 IN APPENDIX A.

0 10 20

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MATTHEW B. HILL

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DPW PROJECT #24-246SC
ISU: REPAIR UTILITY TUNNEL, PHASE 3

IDAHO STATE UNIVERSITY

EXISTING SITE PLAN

DRAWN: KJW | CHECK: MBH

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO.
208106-119

SHEET NO.
V-118

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DPW PROJECT #24-246SC
ISU: REPAIR UTILITY TUNNEL, PHASE 3

IDAHO STATE UNIVERSITY

OVERALL DEMOLITIONL PLAN

DRAWN: KJW | CHECK: MBH

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO.
208106-119

SHEET NO.
CD-100

J:\208106-119 ISU REPLACE UTILITY TUNNEL, PHASE 3\C_DESN_CAD\3_DESIGN\D_PLANS-1\CD-101.DWG LAST SAVED: 8/25/2025 3:56 PM PRINTED: 8/26/2025 9:36 AM

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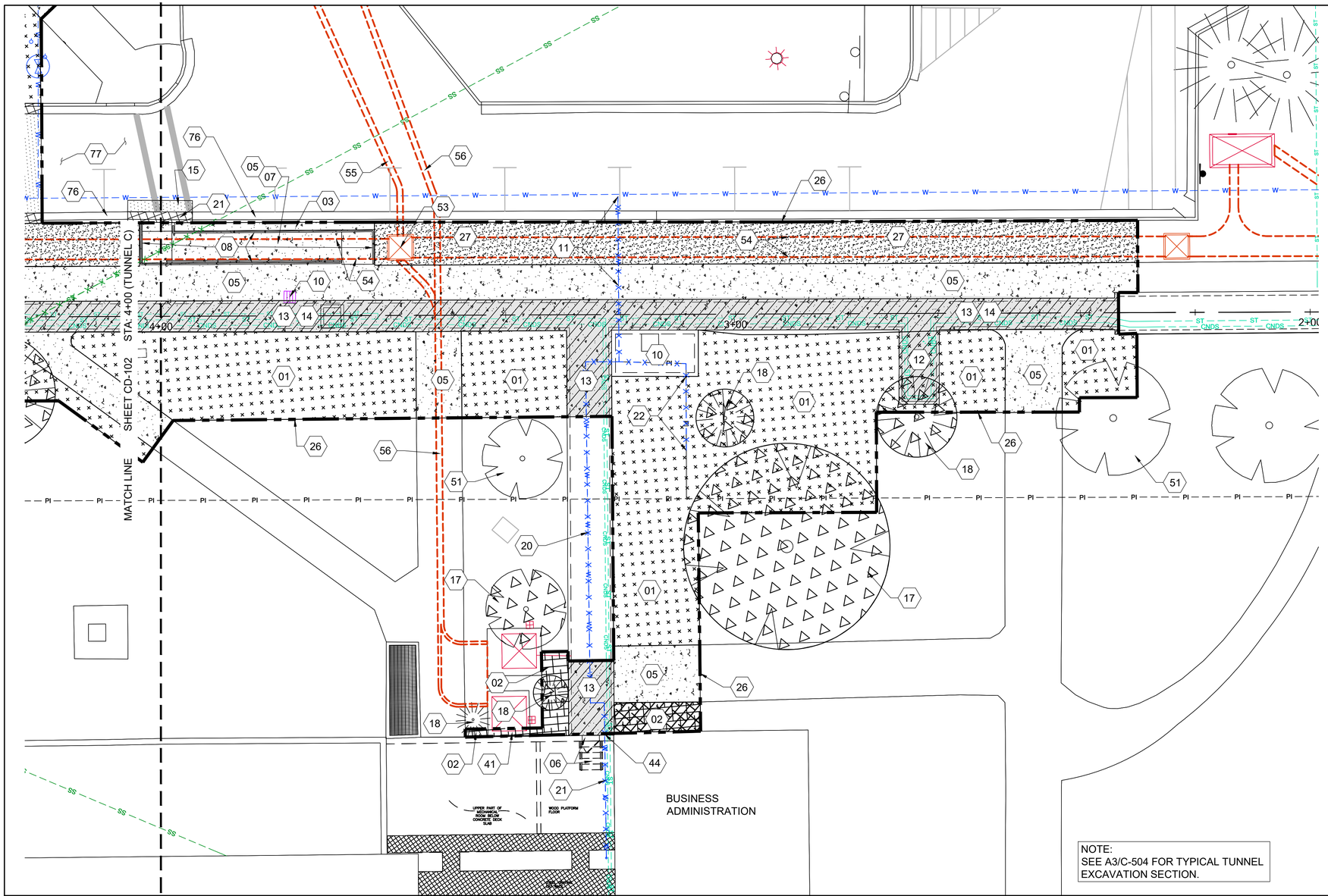

EXISTING SITE NOTES

1. SEE MECHANICAL PLANS FOR DEMOLITION OF STEAM AND CONDENSATE LINES IN TUNNEL.
2. SEE ELECTRICAL PLANS FOR DEMOLITION OF ELECTRICAL AND COMMUNICATIONS SYSTEMS IN TUNNEL.
3. PRESERVE AND PROTECT SITE AND UTILITY FEATURES OUTSIDE OF THE AREAS NOTED AND NOT CALLED OUT ON THESE PLANS UNLESS OTHERWISE NOTED.
4. PRESERVE AND PROTECT ALL LANDSCAPING, MULCH, SOD, SHRUBS, TREES, MONUMENTS, SIDEWALKS, CURBING, ETC. THAT ARE OUTSIDE THE PROJECT LIMITS UNLESS OTHERWISE NOTED. TREES TO BE PROTECTED WITH 6' TALL CHAIN LINK FENCING 10-FOOT MINIMUM FROM OUTSIDE OF TREE TRUNK.
5. CONTRACTOR TO VERIFY ALL INFORMATION ON THESE PLANS IN THE FIELD.
6. IRRIGATION SYSTEM COMPONENTS SUCH AS VALVES, BOXES, HEADS, PIPING, WIRING, ETC. THAT ARE REMOVED OR DAMAGED DUE TO CONSTRUCTION ACTIVITIES ARE TO BE REPLACED WITH IN KIND OR BETTER MATERIALS.
7. FOR EXISTING IRRIGATION SYSTEM SEE SHEETS 15, 16, 20, 21, 26, AND 27 IN APPENDIX A.

NOTE:
SEE A3/C-504 FOR TYPICAL TUNNEL EXCAVATION SECTION.

NOTE:
CONTRACTOR TO PRESERVE AND PROTECT ALL LANDSCAPING, MULCH, SOD, SHRUBS, TREES, MONUMENTS, SIDEWALKS, CURBING, ETC. THAT ARE OUTSIDE THE PROJECT LIMITS UNLESS OTHERWISE NOTED. TREES TO BE PROTECTED WITH CHAIN LINK FENCING 10-FOOT MINIMUM FROM OUTSIDE OF TREE TRUNK.

SHEET KEYNOTES

01	DEMO, REMOVE LANDSCAPING, (SOD)/IRRIGATION SYSTEM AS REQUIRED FOR CONSTRUCTION. COORDINATE W/ISU IRRIGATION PLANS IN "APPENDIX A"
02	DEMO, REMOVE LANDSCAPING, (MULCH)/IRRIGATION SYSTEM AS REQUIRED FOR CONSTRUCTION. COORDINATE W/ISU IRRIGATION PLANS IN "APPENDIX A"
03	DEMO, SAWCUT AND REMOVE CONCRETE PAVING
05	DEMO, SAWCUT AND REMOVE SIDEWALK
06	DEMO, REMOVE STAIRS INSIDE BUILDING MECHANICAL ROOM. SAWCUT OPENING IN FOUNDATION WALL, RE: B3/C-508
07	DEMO SAWCUT AND REMOVE ADA RAMP
08	DEMO, SAWCUT AND REMOVE RETAINING WALL AND RAILINGS
10	DEMO, REMOVE WATER VAULT, PIPING, VALVES, ETC, INSIDE VAULT
11	DEMO, REMOVE WATER LINE FROM MAIN LINE TO WATER VAULT, CAP WATER LINE AT MAIN LINE
12	DEMO, REMOVE EXISTING EXPANSION LOOP CONCRETE TUNNEL IN ITS ENTIRETY. EXISITING STEAM LINE EXPANSION LOOP PIPE & INSULATION TO BE REMOVED
13	DEMO, REMOVE SIDEWALK/CAP TO UTILITY TUNNEL
14	DEMO, REMOVE UTILITY TUNNEL UNDER CONCRETE PAVING
15	DEMO, SAWCUT AND REMOVE ASPHALT PAVING
17	DEMO, REMOVE DECIDUOUS TREE
18	DEMO, REMOVE CONIFEROUS TREE
20	DEMO, REMOVE WATER LINE INSIDE TUNNEL TO BUILDING
21	DEMO, REMOVE WATER LINE INSIDE BUILDING, RE: MECHANICAL PLANS
22	DEMO, REMOVE IRRIGATION LINE
26	DEMO, TUNNEL EXCAVATION LIMITS, RE: A3/C-504
27	DEMO, REMOVE LANDSCAPING, (ROCK MULCH)/IRRIGATION DRIP SYSTEM AS REQUIRED FOR CONSTRUCTION.
41	DEMO, SAWCUT AND REMOVE EDGE OF TRANSFORMER PAD TO WATERPROOF THE BUILDING FOUNDATION WALL, RE: C-101
44	PLUG HOLE IN BUILDING FOUNDATION WHERE PIPING HAS BEEN REMOVED UNLESS UTILIZED FOR NEW PIPING, RE: B4/C-502
51	PRESERVE & PROTECT DECIDUOUS TREE
53	PRESERVE & PROTECT COMMUNICATION VAULT
54	PRESERVE & PROTECT COMMUNICATION/IDAHO POWER CONDUIT BANK
55	PRESERVE & PROTECT COMMUNICATION CONDUIT BANK
56	PRESERVE & PROTECT IDAHO POWER CONDUIT BANK
76	PRESERVE & PROTECT, CRUB & GUTTER
77	PRESERVE & PROTECT, ASPHALT PAVING

HATCH LEGEND

- ASPHALT DEMO
- SOD DEMO
- TUNNEL DEMO
- CONCRETE SIDEWALK DEMO
- CURB DEMO
- MULCH DEMO
- GRAVEL DEMO
- ROCK MULCH DEMO

0 10 20

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MATTHEW B. HILL

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DPW PROJECT #24-246SC
ISU: REPAIR UTILITY TUNNEL, PHASE 3

IDAHO STATE UNIVERSITY

DEMOLITION PLAN

DRAWN: KJW | CHECK: MBH

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO.
208106-119

SHEET NO.
CD-101

Docusign Envelope ID: 81137EF1-A4C1-43BD-A5B0-BA5CD3248E3A

EXISTING SITE NOTES

1. SEE MECHANICAL PLANS FOR DEMOLITION OF STEAM AND CONDENSATE LINES IN TUNNEL.
2. SEE ELECTRICAL PLANS FOR DEMOLITION OF ELECTRICAL AND COMMUNICATIONS SYSTEMS IN TUNNEL.
3. PRESERVE AND PROTECT SITE AND UTILITY FEATURES OUTSIDE OF THE AREAS NOTED AND NOT CALLED OUT ON THESE PLANS UNLESS OTHERWISE NOTED.
4. PRESERVE AND PROTECT ALL LANDSCAPING, MULCH, SOD, SHRUBS, TREES, MONUMENTS, SIDEWALKS, CURBING, ETC. THAT ARE OUTSIDE THE PROJECT LIMITS UNLESS OTHERWISE NOTED. TREES TO BE PROTECTED WITH 6' TALL CHAIN LINK FENCING 10-FOOT MINIMUM FROM OUTSIDE OF TREE TRUNK.
5. CONTRACTOR TO VERIFY ALL INFORMATION ON THESE PLANS IN THE FIELD.
6. IRRIGATION SYSTEM COMPONENTS SUCH AS VALVES, BOXES, HEADS, PIPING, WIRING, ETC. THAT ARE REMOVED OR DAMAGED DUE TO CONSTRUCTION ACTIVITIES ARE TO BE REPLACED WITH IN KIND OR BETTER MATERIALS.
7. FOR EXISTING IRRIGATION SYSTEM SEE SHEETS 15, 16, 20, 21, 26, AND 27 IN APPENDIX A.

FRAZIER HALL

ASBESTOS ABATEMENT NOTE

AFTER THE CONCRETE LID IS REMOVED, CONTACT IDAHO STATE UNIVERSITY TO HAVE TESTING COMPLETED FOR ASBESTOS ON APPROXIMATELY 80-FEET OF THE INSULATING MATERIAL FOR THE 6" STEAM AND 3" CONDENSATE LINES. ISU WILL COMPLETE TESTING AND ABATEMENT TO GOVERNING REGULATIONS IF ASBESTOS IS PRESENT.

STA: 4+00 (TUNNEL C)

SHEET CD-101

MATCH LINE

MATCH LINE SHEET CD-103

5+00

4+00

SHEET KEYNOTES

01	DEMO, REMOVE LANDSCAPING, (SOD)/IRRIGATION SYSTEM AS REQUIRED FOR CONSTRUCTION. COORDINATE W/ISU IRRIGATION PLANS IN "APPENDIX A"
03	DEMO, SAWCUT AND REMOVE CONCRETE PAVING
04	DEMO, SAWCUT AND REMOVE CURB WALL
05	DEMO, SAWCUT AND REMOVE SIDEWALK
07	DEMO SAWCUT AND REMOVE ADA RAMP
08	DEMO, SAWCUT AND REMOVE RETAINING WALL AND RAILINGS
09	DEMO, REMOVE SIGN, STORE AND RE-INSTALL, RE: SITE PLANS
12	DEMO, REMOVE EXISTING EXPANSION LOOP CONCRETE TUNNEL IN ITS ENTIRETY. EXISITING STEAM LINE EXPANSION LOOP PIPE & INSULATION TO BE REMOVED
13	DEMO, REMOVE SIDEWALK/CAP TO UTILITY TUNNEL
14	DEMO, REMOVE UTILITY TUNNEL UNDER CONCRETE PAVING
15	DEMO, SAWCUT AND REMOVE ASPHALT PAVING
16	DEMO, REMOVE TOP OF STEAM/CONDENSATE BANK CONCRETE LID, CLEAN BOTTOM OF CONCRETE DUCT OF DIRT AND DEBRIS, RE: B5/C-505
18	DEMO, REMOVE CONIFEROUS TREE
20	DEMO, REMOVE WATER LINE INSIDE TUNNEL TO BUILDING
23	DEMO, REMOVE MEMORIAL MONUMENT, RETURN TO OWNER
24	DEMO, REMOVE FIRE LINE FROM INSIDE TUNNEL TO BUILDING, RE: MECHANICAL PLANS
25	DEMO, SAWCUT AND REMOVE CURB & GUTTER
26	DEMO, TUNNEL EXCAVATION LIMITS, RE: A3/C-504
27	DEMO, REMOVE LANDSCAPING, (ROCK MULCH)/IRRIGATION DRIP SYSTEM AS REQUIRED FOR CONSTRUCTION.
28	DEMO, REMOVE BOLLARDS
33	DEMO, SAWCUT AND REMOVE DECORATEIVE CMU BETWEEN COLUMNS
45	DEMO, REMOVE WATER METER VAULT
46	DEMO, REMOVE WATER LINE FROM TUNNEL TO MAIN LINE. CAP AT MAIN LINE.
47	DEMO, REMOVE FIRE LINE FROM TUNNEL TO MAIN LINE. CAP AT MAIN LINE.
51	PRESERVE & PROTECT DECIDUOUS TREE
53	PRESERVE & PROTECT COMMUNICATION VAULT
54	PRESERVE & PROTECT COMMUNICATION/IDAHO POWER CONDUIT BANK
55	PRESERVE & PROTECT COMMUNICATION CONDUIT BANK
56	PRESERVE & PROTECT IDAHO POWER CONDUIT BANK
57	PRESERVE & PROTECT, IDAHO POWER TRANSFORMER
59	PRESERVE & PROTECT, FIRE DEPARTMENT CONNECTION
60	PRESERVE & PROTECT, LIGHT POLE
62	PRESERVE & PROTECT, IDAHO POWER VAULT & GEAR
76	PRESERVE & PROTECT, CRUB & GUTTER
77	PRESERVE & PROTECT, ASPHALT PAVING

HATCH LEGEND

- ASPHALT DEMO
- SOD DEMO
- TUNNEL DEMO
- CONCRETE SIDEWALK DEMO
- CURB DEMO
- MULCH DEMO
- ROCK MULCH DEMO
- GRAVEL DEMO

0 10 20

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MATTHEW B. HILL

NO.	REVISIONS	DATE

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DPW PROJECT #24-246SC
ISU: REPAIR UTILITY TUNNEL, PHASE 3

IDAHO STATE UNIVERSITY

DEMOLITION PLAN

DRAWN: KJW | CHECK: MBH

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO.
208106-119

SHEET NO.
CD-102

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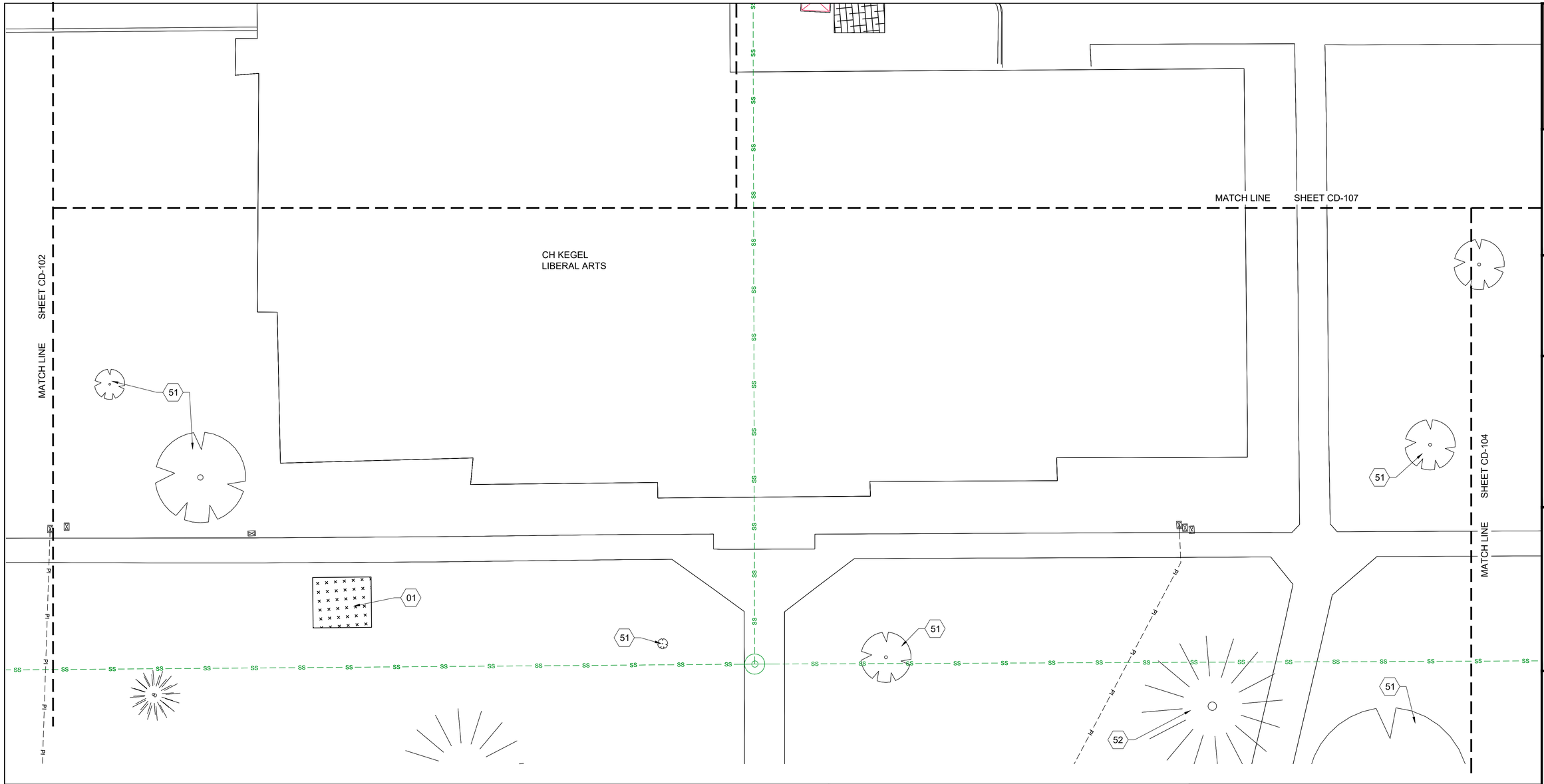

SHEET KEYNOTES

01	DEMO, REMOVE LANDSCAPING, (SOD)/IRRIGATION SYSTEM AS REQUIRED FOR CONSTRUCTION. COORDINATE W/ISU IRRIGATION PLANS IN "APPENDIX A"
51	PRESERVE & PROTECT DECIDUOUS TREE
52	PRESERVE & PROTECT, CONIFEROUS TREE

EXISTING SITE NOTES

1. SEE MECHANICAL PLANS FOR DEMOLITION OF STEAM AND CONDENSATE LINES IN TUNNEL.
2. SEE ELECTRICAL PLANS FOR DEMOLITION OF ELECTRICAL AND COMMUNICATIONS SYSTEMS IN TUNNEL.
3. PRESERVE AND PROTECT SITE AND UTILITY FEATURES OUTSIDE OF THE AREAS NOTED AND NOT CALLED OUT ON THESE PLANS UNLESS OTHERWISE NOTED.
4. PRESERVE AND PROTECT ALL LANDSCAPING, MULCH, SOD, SHRUBS, TREES, MONUMENTS, SIDEWALKS, CURBING, ETC. THAT ARE OUTSIDE THE PROJECT LIMITS UNLESS OTHERWISE NOTED. TREES TO BE PROTECTED WITH 6' TALL CHAIN LINK FENCING 10-FOOT MINIMUM FROM OUTSIDE OF TREE TRUNK.
5. CONTRACTOR TO VERIFY ALL INFORMATION ON THESE PLANS IN THE FIELD.
6. IRRIGATION SYSTEM COMPONENTS SUCH AS VALVES, BOXES, HEADS, PIPING, WIRING, ETC. THAT ARE REMOVED OR DAMAGED DUE TO CONSTRUCTION ACTIVITIES ARE TO BE REPLACED WITH IN KIND OR BETTER MATERIALS.
7. FOR EXISTING IRRIGATION SYSTEM SEE SHEETS 15, 16, 20, 21, 26, AND 27 IN APPENDIX A.

HATCH LEGEND

- ASPHALT DEMO
- TUNNEL DEMO
- CURB DEMO
- GRAVEL DEMO
- SOD DEMO
- CONCRETE SIDEWALK DEMO
- MULCH DEMO
- ROCK MULCH DEMO

0 10 20

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STATE OF IDAHO
MATTHEW B. HILL

NO.	REVISIONS	DATE

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DPW PROJECT #24-246SC
ISU: REPAIR UTILITY TUNNEL, PHASE 3

IDAHO STATE UNIVERSITY

DEMOLITION PLAN

DRAWN: KJW | CHECK: MBH

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO.
208106-119

SHEET NO.
CD-103

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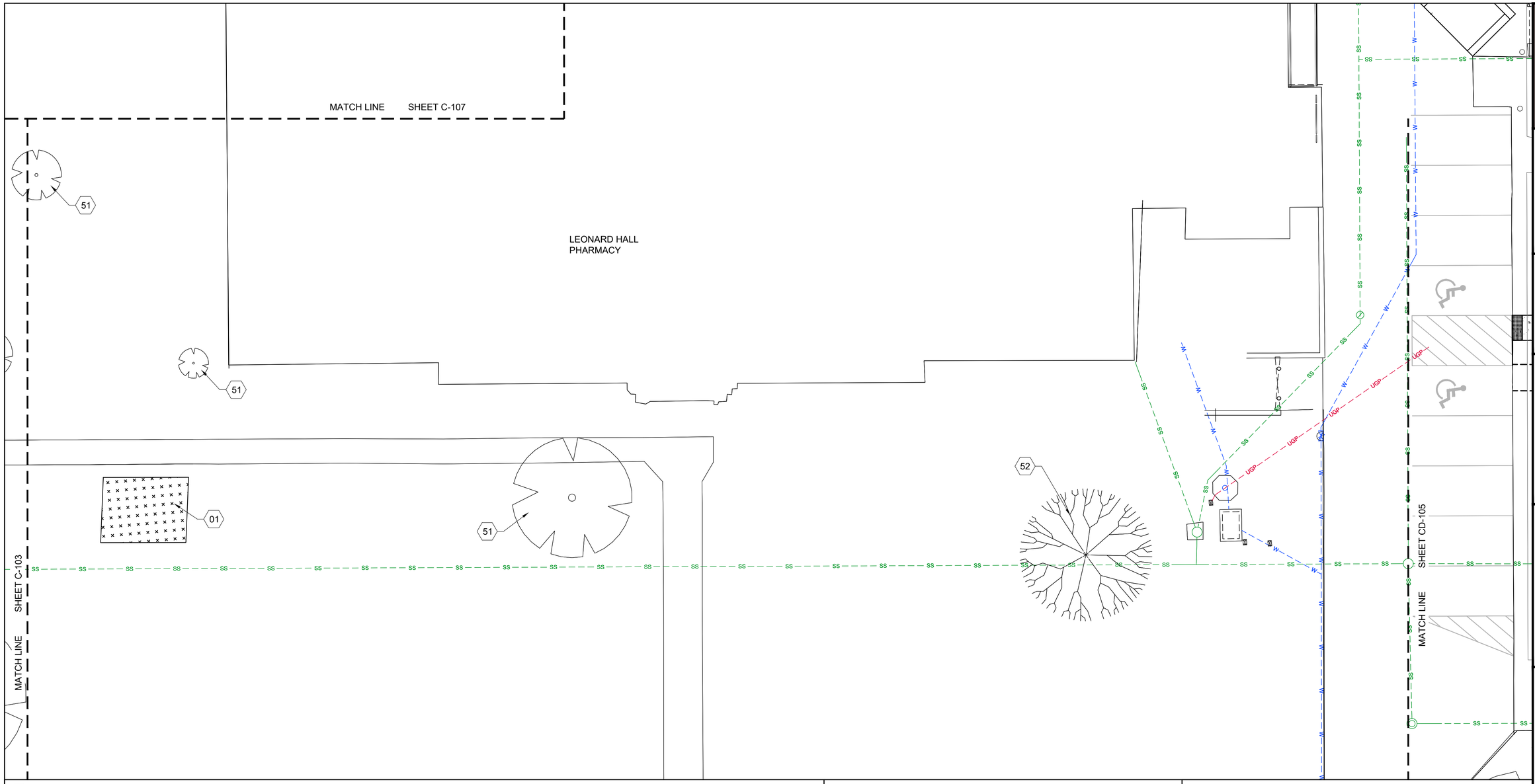

SHEET KEYNOTES

01	DEMO, REMOVE LANDSCAPING, (SOD)/IRRIGATION SYSTEM AS REQUIRED FOR CONSTRUCTION. COORDINATE W/ISU IRRIGATION PLANS IN "APPENDIX A"
51	PRESERVE & PROTECT DECIDUOUS TREE
52	PRESERVE & PROTECT, CONIFEROUS TREE

EXISTING SITE NOTES

1. SEE MECHANICAL PLANS FOR DEMOLITION OF STEAM AND CONDENSATE LINES IN TUNNEL.
2. SEE ELECTRICAL PLANS FOR DEMOLITION OF ELECTRICAL AND COMMUNICATIONS SYSTEMS IN TUNNEL.
3. PRESERVE AND PROTECT SITE AND UTILITY FEATURES OUTSIDE OF THE AREAS NOTED AND NOT CALLED OUT ON THESE PLANS UNLESS OTHERWISE NOTED.
4. PRESERVE AND PROTECT ALL LANDSCAPING, MULCH, SOD, SHRUBS, TREES, MONUMENTS, SIDEWALKS, CURBING, ETC. THAT ARE OUTSIDE THE PROJECT LIMITS UNLESS OTHERWISE NOTED. TREES TO BE PROTECTED WITH 6' TALL CHAIN LINK FENCING 10-FOOT MINIMUM FROM OUTSIDE OF TREE TRUNK.
5. CONTRACTOR TO VERIFY ALL INFORMATION ON THESE PLANS IN THE FIELD.
6. IRRIGATION SYSTEM COMPONENTS SUCH AS VALVES, BOXES, HEADS, PIPING, WIRING, ETC. THAT ARE REMOVED OR DAMAGED DUE TO CONSTRUCTION ACTIVITIES ARE TO BE REPLACED WITH IN KIND OR BETTER MATERIALS.
7. FOR EXISTING IRRIGATION SYSTEM SEE SHEETS 15, 16, 20, 21, 26, AND 27 IN APPENDIX A.

HATCH LEGEND

- ASPHALT DEMO
- TUNNEL DEMO
- CURB DEMO
- GRAVEL DEMO
- SOD DEMO
- CONCRETE SIDEWALK DEMO
- MULCH DEMO
- ROCK MULCH DEMO

0 10 20

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OREGON LICENSE
Matt Bill
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MATTHEW B. HILL

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DPW PROJECT #24-246SC
ISU: REPAIR UTILITY TUNNEL, PHASE 3

IDAHO STATE UNIVERSITY

DEMOLITION PLAN

DRAWN: KJW | CHECK: MBH

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO.
208106-119

SHEET NO.
CD-104

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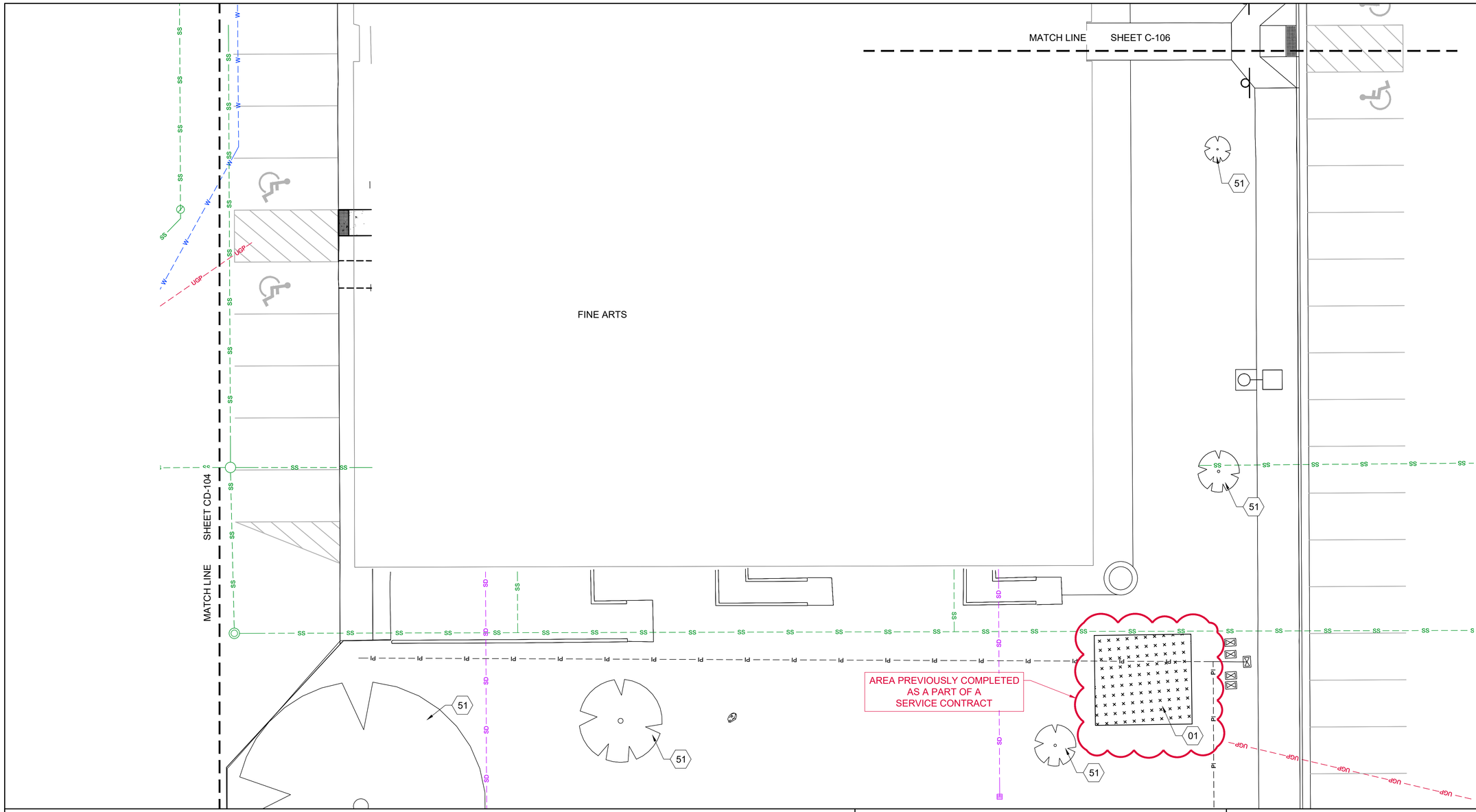

SHEET KEYNOTES

01	DEMO, REMOVE LANDSCAPING, (SOD)/IRRIGATION SYSTEM AS REQUIRED FOR CONSTRUCTION. COORDINATE W/ISU IRRIGATION PLANS IN "APPENDIX A"
51	PRESERVE & PROTECT DECIDUOUS TREE

EXISTING SITE NOTES

1. SEE MECHANICAL PLANS FOR DEMOLITION OF STEAM AND CONDENSATE LINES IN TUNNEL.
2. SEE ELECTRICAL PLANS FOR DEMOLITION OF ELECTRICAL AND COMMUNICATIONS SYSTEMS IN TUNNEL.
3. PRESERVE AND PROTECT SITE AND UTILITY FEATURES OUTSIDE OF THE AREAS NOTED AND NOT CALLED OUT ON THESE PLANS UNLESS OTHERWISE NOTED.
4. PRESERVE AND PROTECT ALL LANDSCAPING, MULCH, SOD, SHRUBS, TREES, MONUMENTS, SIDEWALKS, CURBING, ETC. THAT ARE OUTSIDE THE PROJECT LIMITS UNLESS OTHERWISE NOTED. TREES TO BE PROTECTED WITH 6' TALL CHAIN LINK FENCING 10-FOOT MINIMUM FROM OUTSIDE OF TREE TRUNK.
5. CONTRACTOR TO VERIFY ALL INFORMATION ON THESE PLANS IN THE FIELD.
6. IRRIGATION SYSTEM COMPONENTS SUCH AS VALVES, BOXES, HEADS, PIPING, WIRING, ETC. THAT ARE REMOVED OR DAMAGED DUE TO CONSTRUCTION ACTIVITIES ARE TO BE REPLACED WITH IN KIND OR BETTER MATERIALS.
7. FOR EXISTING IRRIGATION SYSTEM SEE SHEETS 15, 16, 20, 21, 26, AND 27 IN APPENDIX A.

HATCH LEGEND

- ASPHALT DEMO
- TUNNEL DEMO
- CURB DEMO
- GRAVEL DEMO
- SOD DEMO
- CONCRETE SIDEWALK DEMO
- MULCH DEMO
- ROCK MULCH DEMO

0 10 20

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MATTHEW B. HILL

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DPW PROJECT #24-246SC
ISU: REPAIR UTILITY TUNNEL, PHASE 3

IDAHO STATE UNIVERSITY

DEMOLITION PLAN

DRAWN: KJW | CHECK: MBH

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO.
208106-119

SHEET NO.
CD-105

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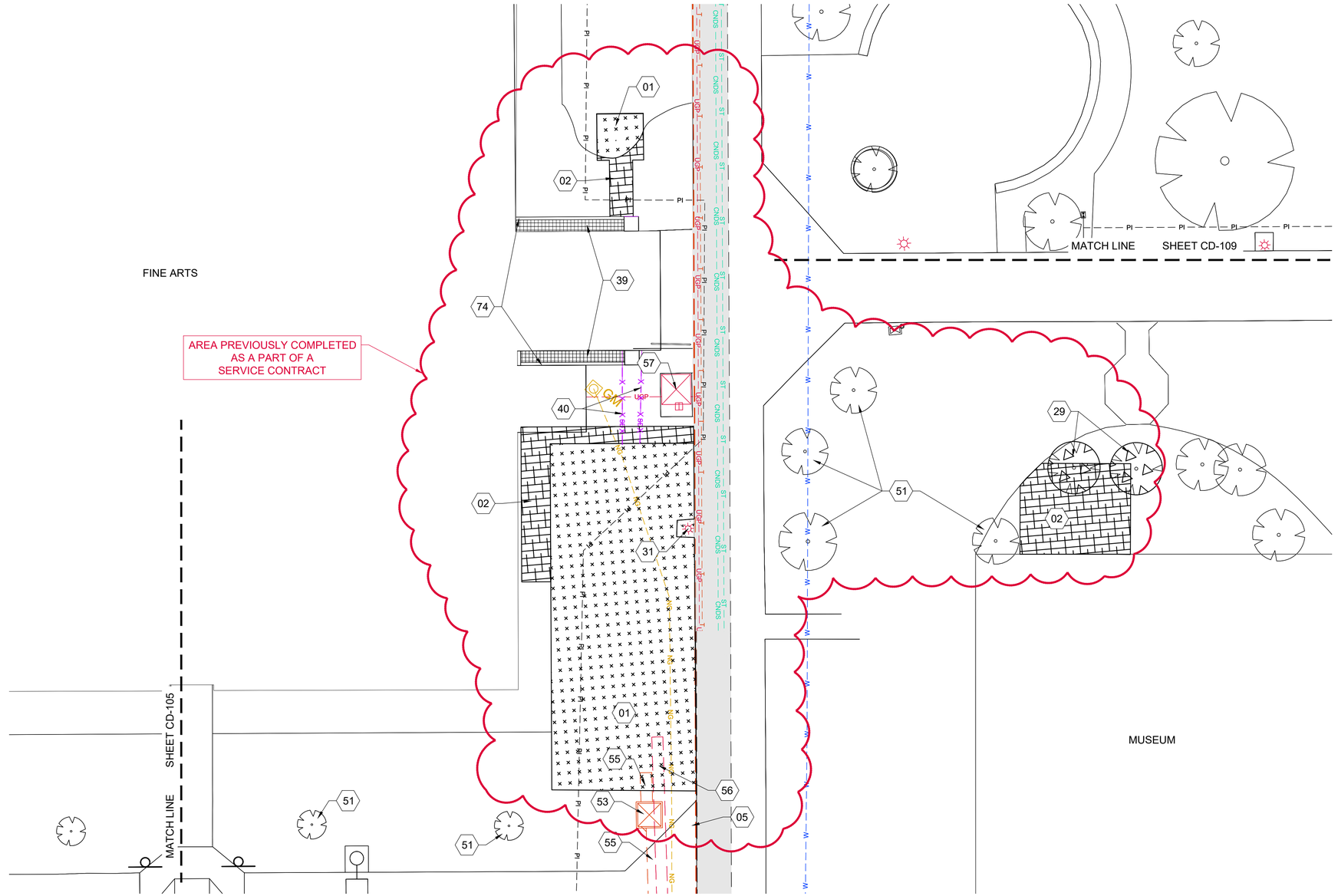

SHEET KEYNOTES

01	DEMO, REMOVE LANDSCAPING, (SOD)/IRRIGATION SYSTEM AS REQUIRED FOR CONSTRUCTION. COORDINATE W/ISU IRRIGATION PLANS IN "APPENDIX A"
02	DEMO, REMOVE LANDSCAPING, (MULCH)/IRRIGATION SYSTEM AS REQUIRED FOR CONSTRUCTION. COORDINATE W/ISU IRRIGATION PLANS IN "APPENDIX A"
05	DEMO, SAWCUT AND REMOVE SIDEWALK
29	DEMO, REMOVE SYRINGA TREE WITH TREE SPADE, WRAP ROOTBALL IN BURLAP AND WATER TO KEEP ALIVE.TO BE REPLANTED IN NEW LOCATION, RE: C-308 & C-319
31	DEMO, REMOVE EXISTING LIGHT POLE AND BASE. STORE LIGHT POLE, TO BE RE-INSTALLED, RE: SITE PLANS
39	DEMO, REMOVE GRATING
40	DEMO, REMOVE ROOF DRAIN PIPING
51	PRESERVE & PROTECT DECIDUOUS TREE
53	PRESERVE & PROTECT COMMUNICATION VAULT
55	PRESERVE & PROTECT COMMUNICATION CONDUIT BANK
56	PRESERVE & PROTECT IDAHO POWER CONDUIT BANK
57	PRESERVE & PROTECT, IDAHO POWER TRANSFORMER
74	PRESERVE & PROTECT, CURB WALL

EXISTING SITE NOTES

1. SEE MECHANICAL PLANS FOR DEMOLITION OF STEAM AND CONDENSATE LINES IN TUNNEL.
2. SEE ELECTRICAL PLANS FOR DEMOLITION OF ELECTRICAL AND COMMUNICATIONS SYSTEMS IN TUNNEL.
3. PRESERVE AND PROTECT SITE AND UTILITY FEATURES OUTSIDE OF THE AREAS NOTED AND NOT CALLED OUT ON THESE PLANS UNLESS OTHERWISE NOTED.
4. PRESERVE AND PROTECT ALL LANDSCAPING, MULCH, SOD, SHRUBS, TREES, MONUMENTS, SIDEWALKS, CURBING, ETC. THAT ARE OUTSIDE THE PROJECT LIMITS UNLESS OTHERWISE NOTED. TREES TO BE PROTECTED WITH 6' TALL CHAIN LINK FENCING 10-FOOT MINIMUM FROM OUTSIDE OF TREE TRUNK.
5. CONTRACTOR TO VERIFY ALL INFORMATION ON THESE PLANS IN THE FIELD.
6. IRRIGATION SYSTEM COMPONENTS SUCH AS VALVES, BOXES, HEADS, PIPING, WIRING, ETC. THAT ARE REMOVED OR DAMAGED DUE TO CONSTRUCTION ACTIVITIES ARE TO BE REPLACED WITH IN KIND OR BETTER MATERIALS.
7. FOR EXISTING IRRIGATION SYSTEM SEE SHEETS 15, 16, 20, 21, 26, AND 27 IN APPENDIX A.

AREA TO BE COMPLETED AS A PART OF A SERVICE CONTRACT

HATCH LEGEND

- ASPHALT DEMO
- SOD DEMO
- TUNNEL DEMO
- CONCRETE SIDEWALK DEMO
- CURB DEMO
- MULCH DEMO
- GRAVEL DEMO
- ROCK MULCH DEMO

0 10 20

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8/27/2025
STATE OF IDAHO
MATTHEW B. HILL

NO.	REVISIONS	DATE

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DPW PROJECT #24-246SC
ISU: REPAIR UTILITY TUNNEL, PHASE 3

IDAHO STATE UNIVERSITY

DEMOLITION PLAN

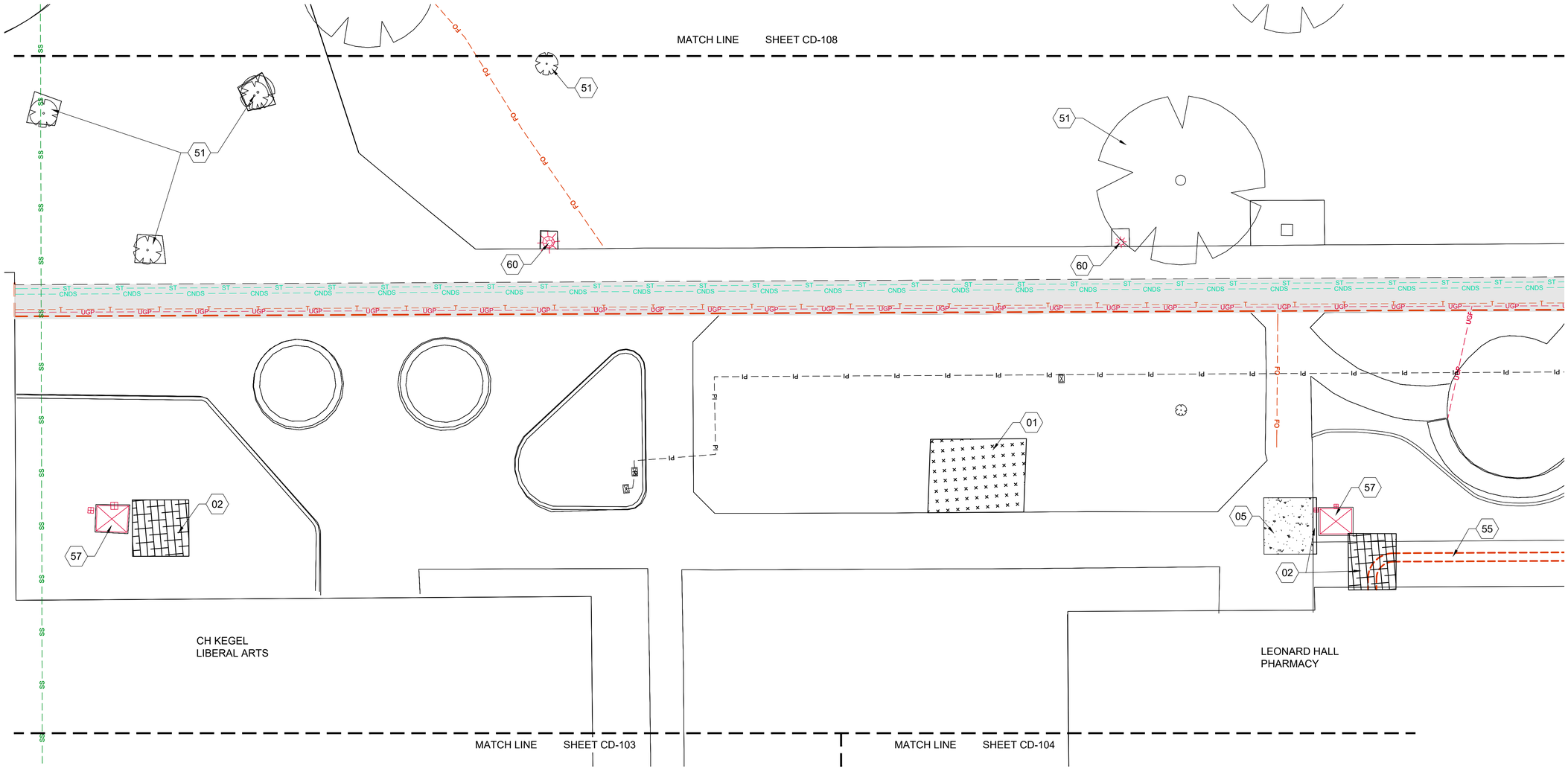
DRAWN: KJW | CHECK: MBH

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO.
208106-119

SHEET NO.
CD-106

Docusign Envelope ID: 2CEA88BF-EBC6-4121-8A49-A146A0BA41CA



SHEET KEYNOTES

01	DEMO, REMOVE LANDSCAPING, (SOD)/IRRIGATION SYSTEM AS REQUIRED FOR CONSTRUCTION. COORDINATE W/ISU IRRIGATION PLANS IN "APPENDIX A"
02	DEMO, REMOVE LANDSCAPING, (MULCH)/IRRIGATION SYSTEM AS REQUIRED FOR CONSTRUCTION. COORDINATE W/ISU IRRIGATION PLANS IN "APPENDIX A"
05	DEMO, SAWCUT AND REMOVE SIDEWALK
51	PRESERVE & PROTECT DECIDUOUS TREE
55	PRESERVE & PROTECT COMMUNICATION CONDUIT BANK
57	PRESERVE & PROTECT, IDAHO POWER TRANSFORMER
60	PRESERVE & PROTECT, LIGHT POLE

EXISTING SITE NOTES

1. SEE MECHANICAL PLANS FOR DEMOLITION OF STEAM AND CONDENSATE LINES IN TUNNEL.
2. SEE ELECTRICAL PLANS FOR DEMOLITION OF ELECTRICAL AND COMMUNICATIONS SYSTEMS IN TUNNEL.
3. PRESERVE AND PROTECT SITE AND UTILITY FEATURES OUTSIDE OF THE AREAS NOTED AND NOT CALLED OUT ON THESE PLANS UNLESS OTHERWISE NOTED.
4. PRESERVE AND PROTECT ALL LANDSCAPING, MULCH, SOD, SHRUBS, TREES, MONUMENTS, SIDEWALKS, CURBING, ETC. THAT ARE OUTSIDE THE PROJECT LIMITS UNLESS OTHERWISE NOTED. TREES TO BE PROTECTED WITH 6' TALL CHAIN LINK FENCING 10-FOOT MINIMUM FROM OUTSIDE OF TREE TRUNK.
5. CONTRACTOR TO VERIFY ALL INFORMATION ON THESE PLANS IN THE FIELD.
6. IRRIGATION SYSTEM COMPONENTS SUCH AS VALVES, BOXES, HEADS, PIPING, WIRING, ETC. THAT ARE REMOVED OR DAMAGED DUE TO CONSTRUCTION ACTIVITIES ARE TO BE REPLACED WITH IN KIND OR BETTER MATERIALS.
7. FOR EXISTING IRRIGATION SYSTEM SEE SHEETS 15, 16, 20, 21, 26, AND 27 IN APPENDIX A.

HATCH LEGEND

- ASPHALT DEMO
- SOD DEMO
- CONCRETE SIDEWALK DEMO
- TUNNEL DEMO
- MULCH DEMO
- CURB DEMO
- ROCK MULCH DEMO
- GRAVEL DEMO

0 10 20

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MATTHEW B. HILL

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DPW PROJECT #24-246SC
ISU: REPAIR UTILITY TUNNEL, PHASE 3

IDAHO STATE UNIVERSITY

DEMOLITION PLAN

DRAWN: KJW CHECK: MBH

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO.
208106-119

SHEET NO.
CD-107

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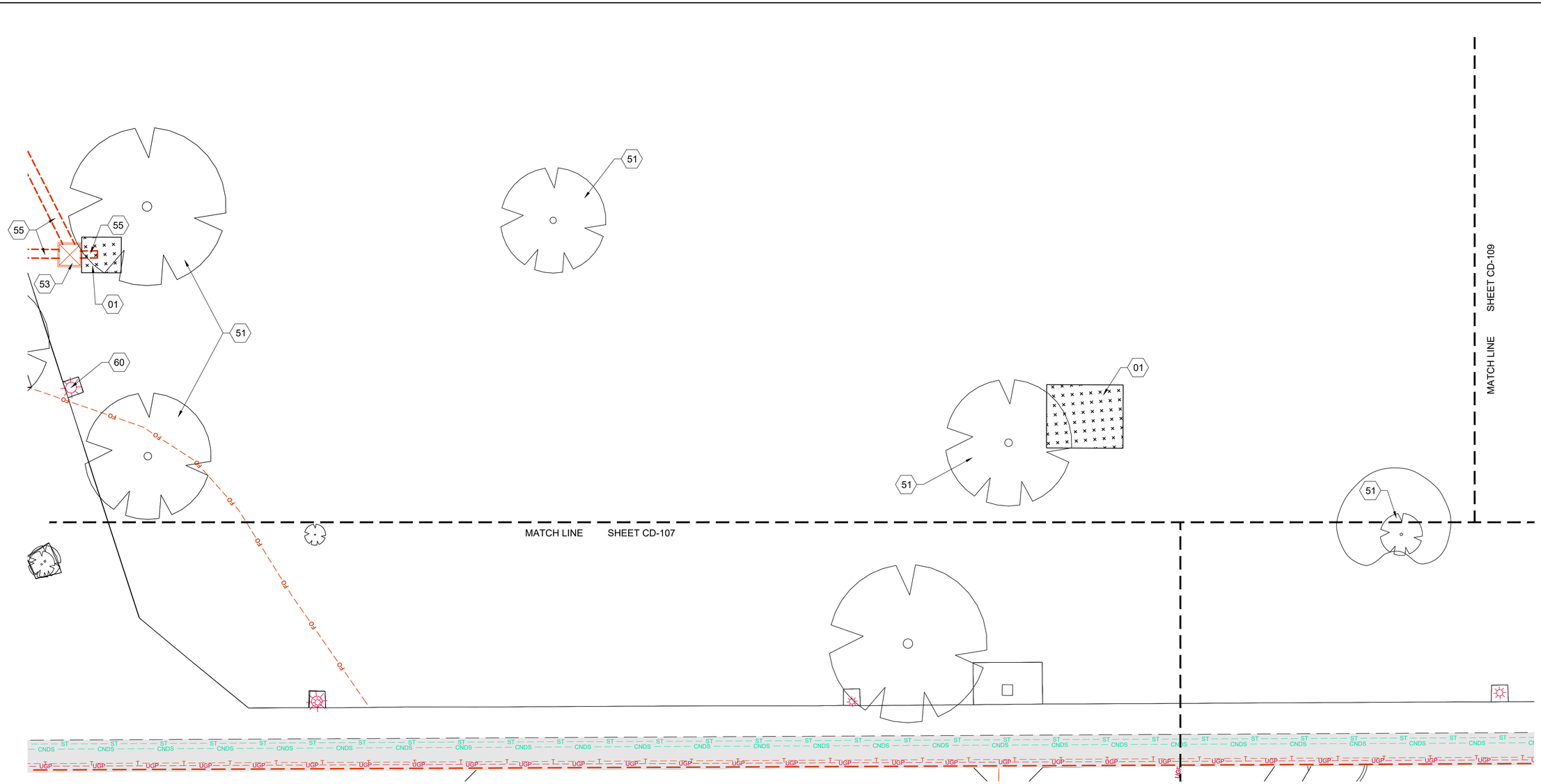

SHEET KEYNOTES

01	DEMO, REMOVE LANDSCAPING, (SOD)/IRRIGATION SYSTEM AS REQUIRED FOR CONSTRUCTION. COORDINATE W/ISU IRRIGATION PLANS IN "APPENDIX A"
51	PRESERVE & PROTECT DECIDUOUS TREE
53	PRESERVE & PROTECT COMMUNICATION VAULT
55	PRESERVE & PROTECT COMMUNICATION CONDUIT BANK
60	PRESERVE & PROTECT, LIGHT POLE

EXISTING SITE NOTES

1. SEE MECHANICAL PLANS FOR DEMOLITION OF STEAM AND CONDENSATE LINES IN TUNNEL.
2. SEE ELECTRICAL PLANS FOR DEMOLITION OF ELECTRICAL AND COMMUNICATIONS SYSTEMS IN TUNNEL.
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7. FOR EXISTING IRRIGATION SYSTEM SEE SHEETS 15, 16, 20, 21, 26, AND 27 IN APPENDIX A.

HATCH LEGEND

- ASPHALT DEMO
- TUNNEL DEMO
- CURB DEMO
- GRAVEL DEMO
- SOD DEMO
- CONCRETE SIDEWALK DEMO
- MULCH DEMO
- ROCK MULCH DEMO

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DPW PROJECT #24-246SC
ISU: REPAIR UTILITY TUNNEL, PHASE 3

IDAHO STATE UNIVERSITY

DEMOLITION PLAN

DRAWN: KJW | CHECK: MBH

VERIFY SCALE: Scales based on 22"x34" prints.

1-1/2 Inches

PROJECT NO.
208106-119

SHEET NO.
CD-108

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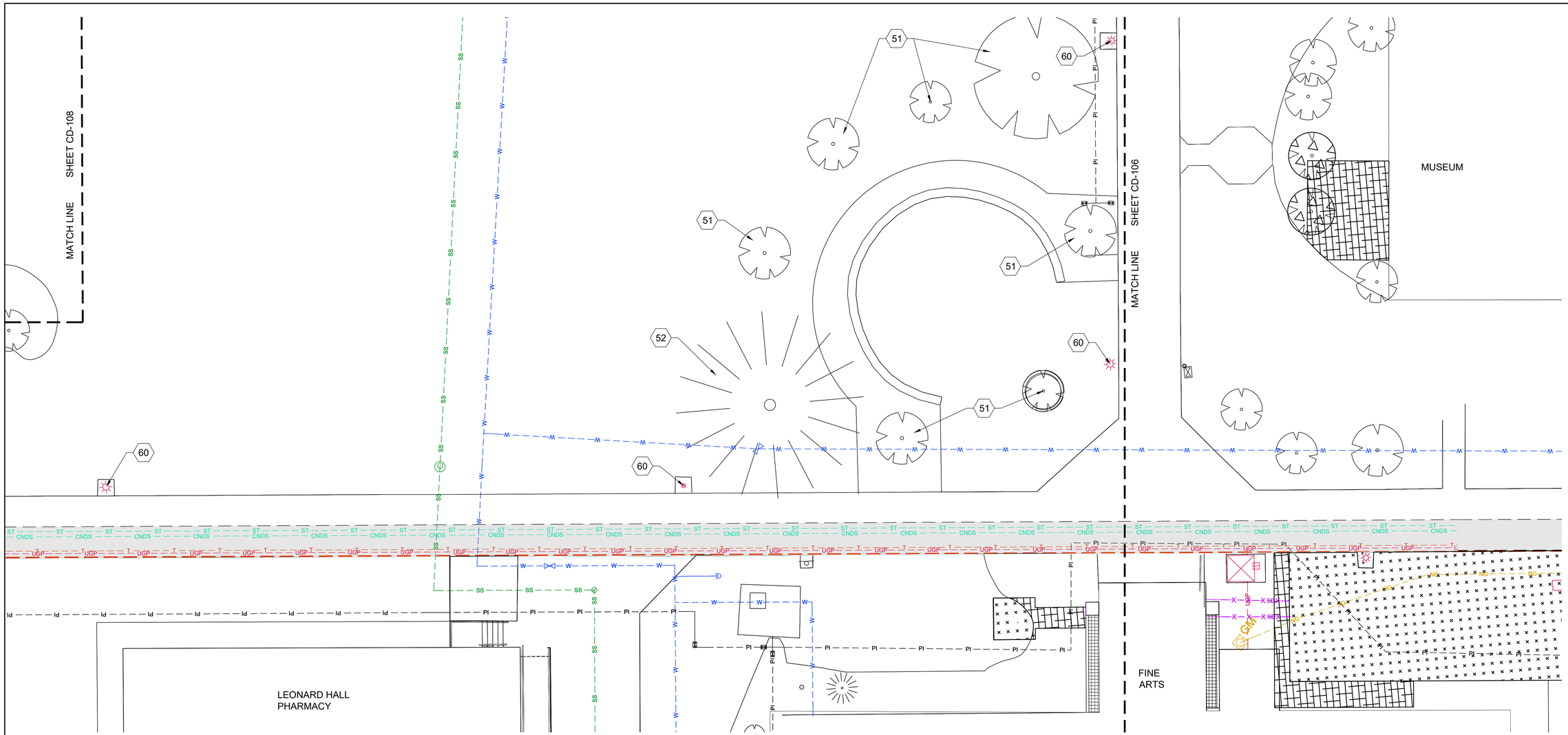

SHEET KEYNOTES

51 PRESERVE & PROTECT DECIDUOUS TREE
52 PRESERVE & PROTECT, CONIFEROUS TREE
60 PRESERVE & PROTECT, LIGHT POLE

EXISTING SITE NOTES

1. SEE MECHANICAL PLANS FOR DEMOLITION OF STEAM AND CONDENSATE LINES IN TUNNEL.
2. SEE ELECTRICAL PLANS FOR DEMOLITION OF ELECTRICAL AND COMMUNICATIONS SYSTEMS IN TUNNEL.
3. PRESERVE AND PROTECT SITE AND UTILITY FEATURES OUTSIDE OF THE AREAS NOTED AND NOT CALLED OUT ON THESE PLANS UNLESS OTHERWISE NOTED.
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7. FOR EXISTING IRRIGATION SYSTEM SEE SHEETS 15, 16, 20, 21, 26, AND 27 IN APPENDIX A.

HATCH LEGEND

ASPHALT DEMO
TUNNEL DEMO
CURB DEMO
GRAVEL DEMO
SOD DEMO
CONCRETE SIDEWALK DEMO
MULCH DEMO
ROCK MULCH DEMO

0 10 20

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DPW PROJECT #24-246SC
ISU: REPAIR UTILITY TUNNEL, PHASE 3

IDAHO STATE UNIVERSITY

DEMOLITION PLAN

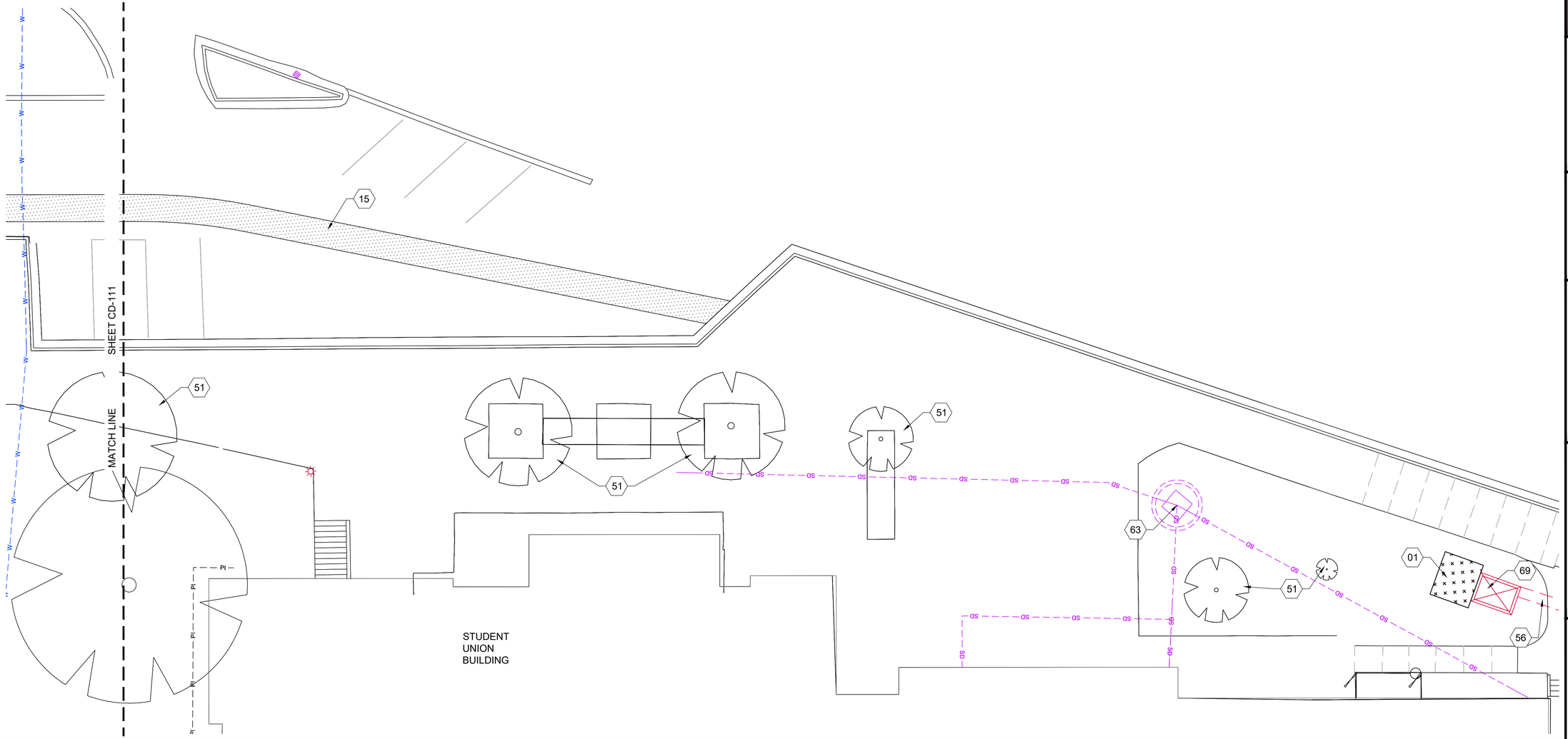
DRAWN: KJW | CHECK: MBH

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO.
208106-119

SHEET NO.
CD-109

Docusign Envelope ID: 2CEA88BF-EBC6-4121-8A49-A146A0BA41CA



SHEET KEYNOTES

01	DEMO, REMOVE LANDSCAPING, (SOD)/IRRIGATION SYSTEM AS REQUIRED FOR CONSTRUCTION. COORDINATE W/ISU IRRIGATION PLANS IN "APPENDIX A"
15	DEMO, SAWCUT AND REMOVE ASPHALT PAVING
51	PRESERVE & PROTECT DECIDUOUS TREE
56	PRESERVE & PROTECT IDAHO POWER CONDUIT BANK
63	PRESERVE & PROTECT, STORM DRAIN INFILTRATION DRY WELL
69	PRESERVE & PROTECT, IDAHO POWER VAULT

EXISTING SITE NOTES

1. SEE MECHANICAL PLANS FOR DEMOLITION OF STEAM AND CONDENSATE LINES IN TUNNEL.
2. SEE ELECTRICAL PLANS FOR DEMOLITION OF ELECTRICAL AND COMMUNICATIONS SYSTEMS IN TUNNEL.
3. PRESERVE AND PROTECT SITE AND UTILITY FEATURES OUTSIDE OF THE AREAS NOTED AND NOT CALLED OUT ON THESE PLANS UNLESS OTHERWISE NOTED.
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5. CONTRACTOR TO VERIFY ALL INFORMATION ON THESE PLANS IN THE FIELD.
6. IRRIGATION SYSTEM COMPONENTS SUCH AS VALVES, BOXES, HEADS, PIPING, WIRING, ETC. THAT ARE REMOVED OR DAMAGED DUE TO CONSTRUCTION ACTIVITIES ARE TO BE REPLACED WITH IN KIND OR BETTER MATERIALS.
7. FOR EXISTING IRRIGATION SYSTEM SEE SHEETS 15, 16, 20, 21, 26, AND 27 IN APPENDIX A.

HATCH LEGEND

ASPHALT DEMO
TUNNEL DEMO
CURB DEMO
GRAVEL DEMO
SOD DEMO
CONCRETE SIDEWALK DEMO
MULCH DEMO
ROCK MULCH DEMO

0 10 20

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STATE OF IDAHO
MATTHEW B. HILL

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DPW PROJECT #24-246SC
ISU: REPAIR UTILITY TUNNEL, PHASE 3

IDAHO STATE UNIVERSITY

DEMOLITION PLAN

DRAWN: KJW | CHECK: MBH

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO.
208106-119

SHEET NO.
CD-110

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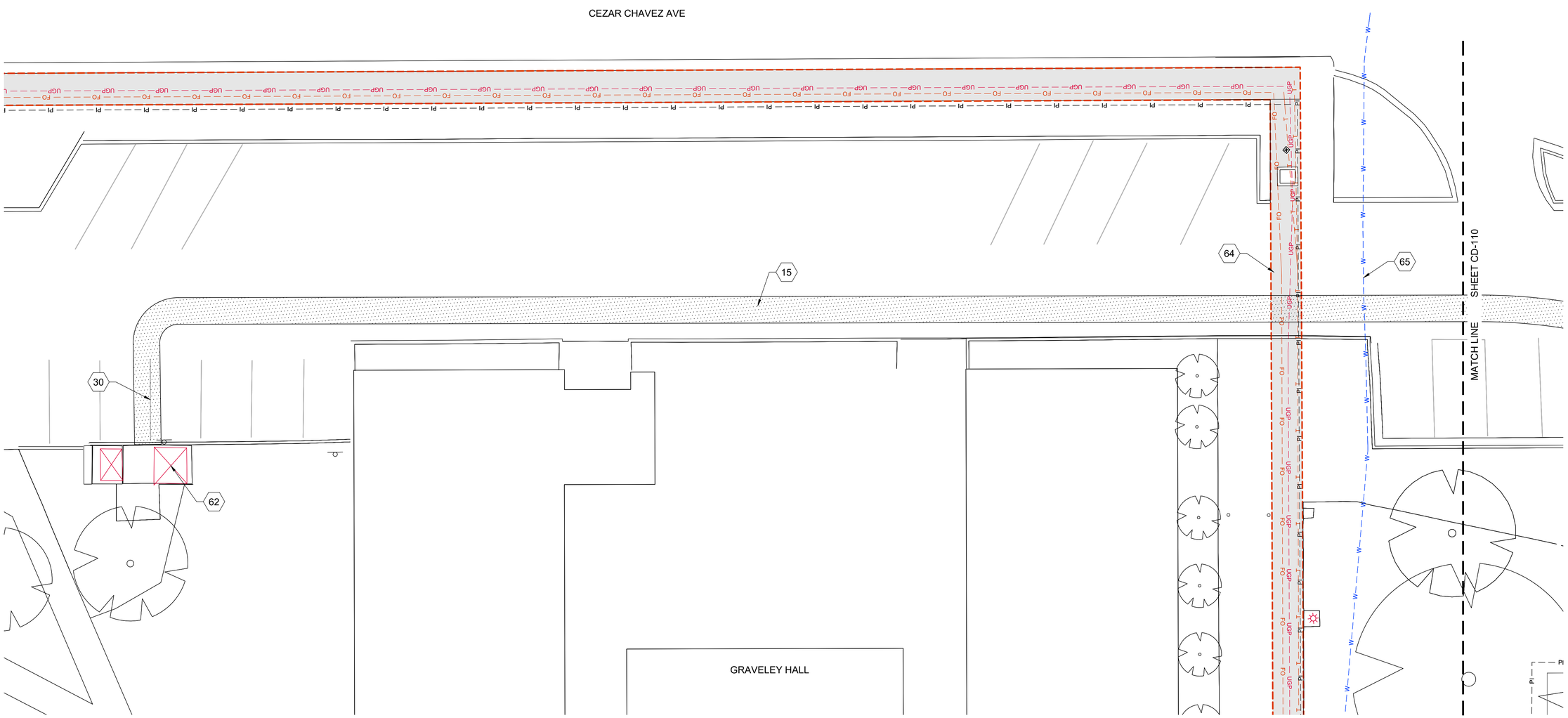

SHEET KEYNOTES

15	DEMO, SAWCUT AND REMOVE ASPHALT PAVING
30	4" WHITE PANT LINE, REPAINT PARKING STALL(S) AS REQUIRED FOR CONSTRUCTION
62	PRESERVE & PROTECT, IDAHO POWER VAULT & GEAR
64	PRESERVE & PROTECT, UTILITY TUNNEL
65	PRESERVE & PROTECT, WATER LINE

EXISTING SITE NOTES

1. SEE MECHANICAL PLANS FOR DEMOLITION OF STEAM AND CONDENSATE LINES IN TUNNEL.
2. SEE ELECTRICAL PLANS FOR DEMOLITION OF ELECTRICAL AND COMMUNICATIONS SYSTEMS IN TUNNEL.
3. PRESERVE AND PROTECT SITE AND UTILITY FEATURES OUTSIDE OF THE AREAS NOTED AND NOT CALLED OUT ON THESE PLANS UNLESS OTHERWISE NOTED.
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5. CONTRACTOR TO VERIFY ALL INFORMATION ON THESE PLANS IN THE FIELD.
6. IRRIGATION SYSTEM COMPONENTS SUCH AS VALVES, BOXES, HEADS, PIPING, WIRING, ETC. THAT ARE REMOVED OR DAMAGED DUE TO CONSTRUCTION ACTIVITIES ARE TO BE REPLACED WITH IN KIND OR BETTER MATERIALS.
7. FOR EXISTING IRRIGATION SYSTEM SEE SHEETS 15, 16, 20, 21, 26, AND 27 IN APPENDIX A.

HATCH LEGEND

- ASPHALT DEMO
- TUNNEL DEMO
- CURB DEMO
- GRAVEL DEMO
- SOD DEMO
- CONCRETE SIDEWALK DEMO
- MULCH DEMO
- ROCK MULCH DEMO

0 10 20

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MATTHEW B. HILL

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DPW PROJECT #24-246SC
ISU: REPAIR UTILITY TUNNEL, PHASE 3

IDAHO STATE UNIVERSITY

DEMOLITION PLAN

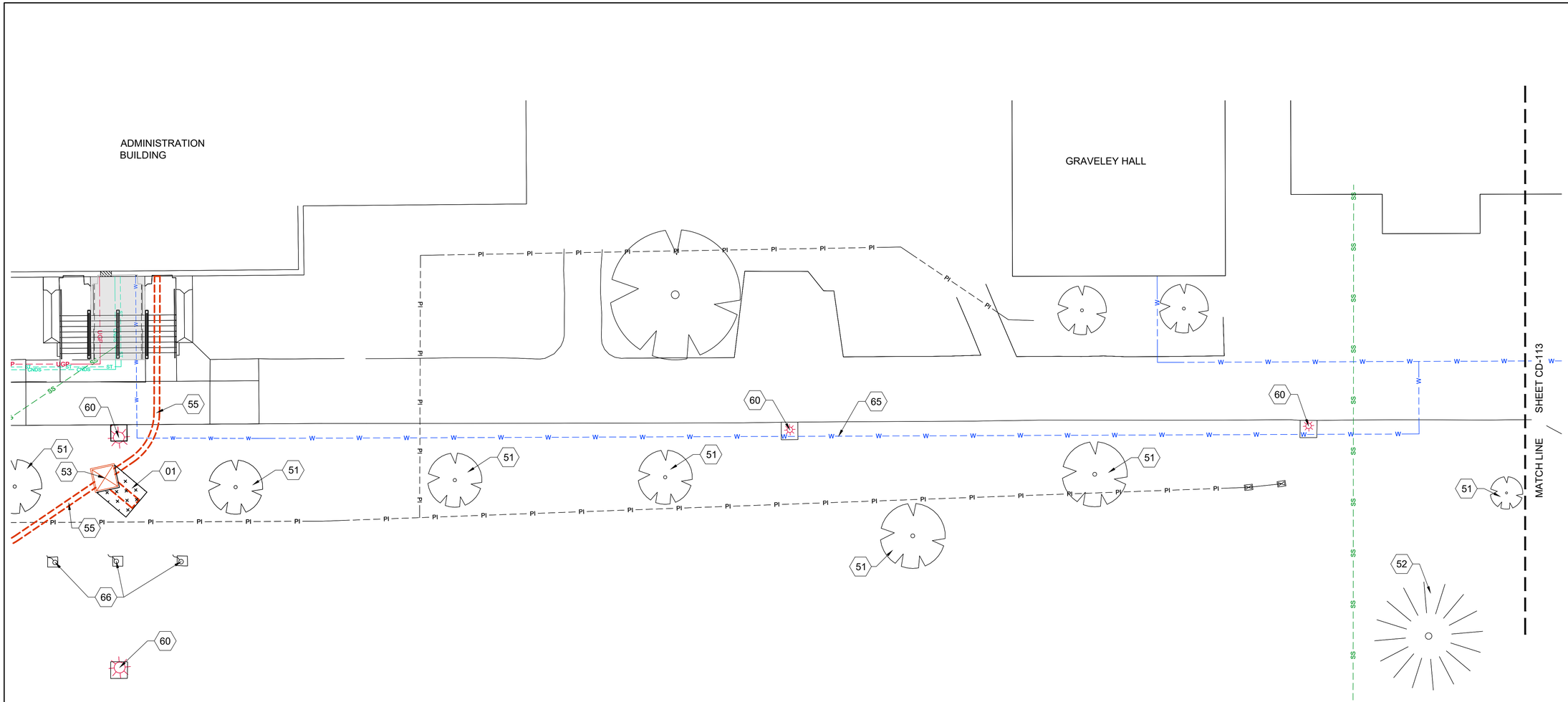
DRAWN: KJW | CHECK: MBH

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO.
208106-119

SHEET NO.
CD-111

Docusign Envelope ID: 2CEA88BF-EBC6-4121-8A49-A146A0BA41CA



SHEET KEYNOTES

01	DEMO, REMOVE LANDSCAPING, (SOD)/IRRIGATION SYSTEM AS REQUIRED FOR CONSTRUCTION. COORDINATE W/ISU IRRIGATION PLANS IN "APPENDIX A"
51	PRESERVE & PROTECT DECIDUOUS TREE
52	PRESERVE & PROTECT, CONIFEROUS TREE
53	PRESERVE & PROTECT COMMUNICATION VAULT
55	PRESERVE & PROTECT COMMUNICATION CONDUIT BANK
60	PRESERVE & PROTECT, LIGHT POLE
65	PRESERVE & PROTECT, WATER LINE
66	PRESERVE & PROTECT, FLAG POLE

EXISTING SITE NOTES

1. SEE MECHANICAL PLANS FOR DEMOLITION OF STEAM AND CONDENSATE LINES IN TUNNEL.
2. SEE ELECTRICAL PLANS FOR DEMOLITION OF ELECTRICAL AND COMMUNICATIONS SYSTEMS IN TUNNEL.
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6. IRRIGATION SYSTEM COMPONENTS SUCH AS VALVES, BOXES, HEADS, PIPING, WIRING, ETC. THAT ARE REMOVED OR DAMAGED DUE TO CONSTRUCTION ACTIVITIES ARE TO BE REPLACED WITH IN KIND OR BETTER MATERIALS.
7. FOR EXISTING IRRIGATION SYSTEM SEE SHEETS 15, 16, 20, 21, 26, AND 27 IN APPENDIX A.

HATCH LEGEND

- ASPHALT DEMO
- TUNNEL DEMO
- CURB DEMO
- GRAVEL DEMO
- SOD DEMO
- CONCRETE SIDEWALK DEMO
- MULCH DEMO
- ROCK MULCH DEMO

0 10 20

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MATTHEW B. HILL

NO.	REVISIONS	DATE

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DPW PROJECT #24-246SC
ISU: REPAIR UTILITY TUNNEL, PHASE 3

IDAHO STATE UNIVERSITY

DEMOLITION PLAN

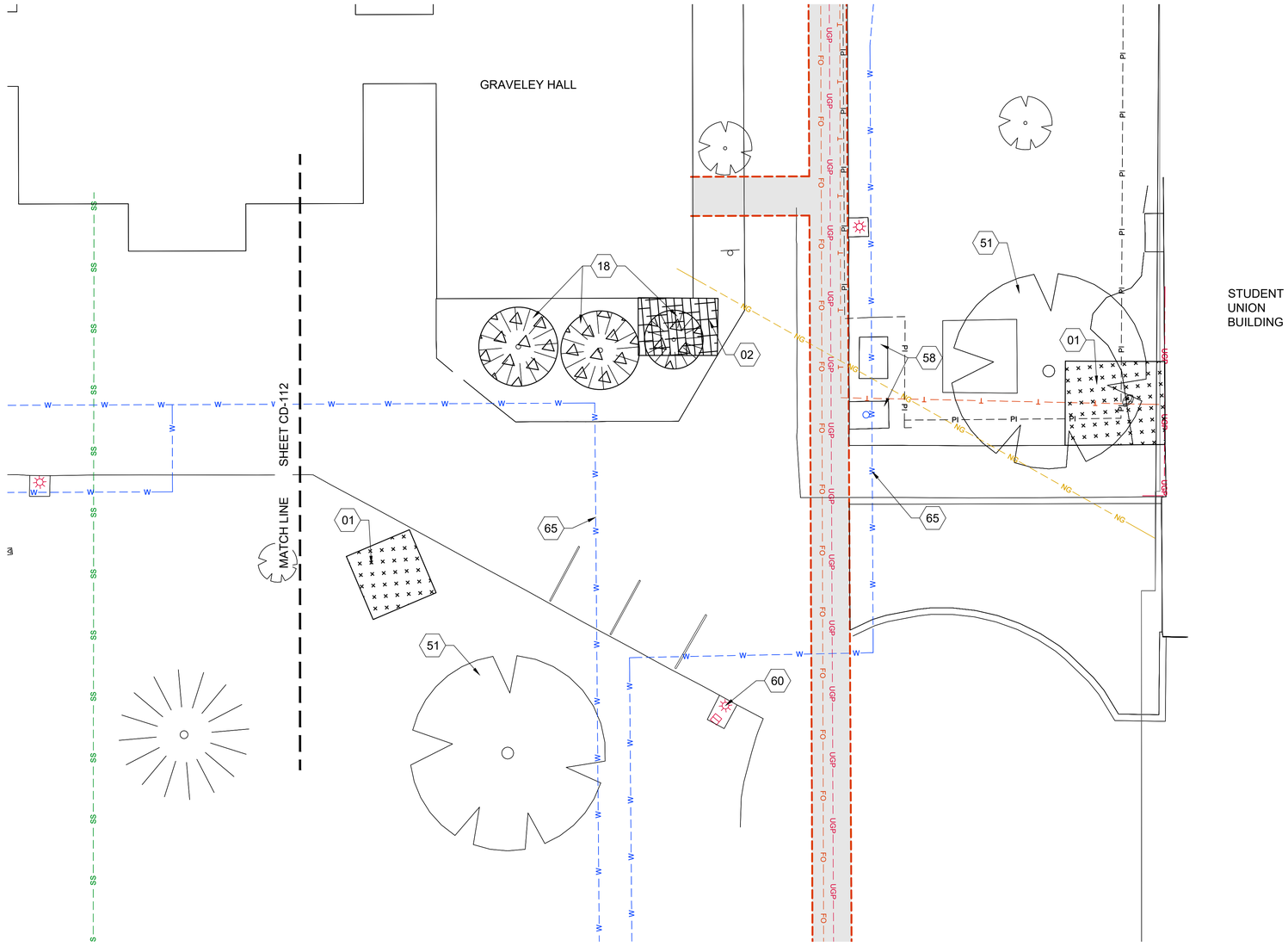
DRAWN: KJW | CHECK: MBH

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO.
208106-119

SHEET NO.
CD-112

Docusign Envelope ID: 2CEA88BF-EBC6-4121-8A49-A146A0BA41CA



SHEET KEYNOTES

01	DEMO, REMOVE LANDSCAPING, (SOD)/IRRIGATION SYSTEM AS REQUIRED FOR CONSTRUCTION. COORDINATE W/ISU IRRIGATION PLANS IN "APPENDIX A"
02	DEMO, REMOVE LANDSCAPING, (MULCH)/IRRIGATION SYSTEM AS REQUIRED FOR CONSTRUCTION. COORDINATE W/ISU IRRIGATION PLANS IN "APPENDIX A"
18	DEMO, REMOVE CONIFEROUS TREE
51	PRESERVE & PROTECT DECIDUOUS TREE
58	PRESERVE & PROTECT, WATER VAULT
60	PRESERVE & PROTECT, LIGHT POLE
65	PRESERVE & PROTECT, WATER LINE

EXISTING SITE NOTES

1. SEE MECHANICAL PLANS FOR DEMOLITION OF STEAM AND CONDENSATE LINES IN TUNNEL.
2. SEE ELECTRICAL PLANS FOR DEMOLITION OF ELECTRICAL AND COMMUNICATIONS SYSTEMS IN TUNNEL.
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7. FOR EXISTING IRRIGATION SYSTEM SEE SHEETS 15, 16, 20, 21, 26, AND 27 IN APPENDIX A.

HATCH LEGEND

ASPHALT DEMO
SOD DEMO
CONCRETE SIDEWALK DEMO
TUNNEL DEMO
MULCH DEMO
CURB DEMO
ROCK MULCH DEMO
GRAVEL DEMO

0 10 20

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DPW PROJECT #24-246SC
ISU: REPAIR UTILITY TUNNEL, PHASE 3

IDAHO STATE UNIVERSITY

DEMOLITION PLAN

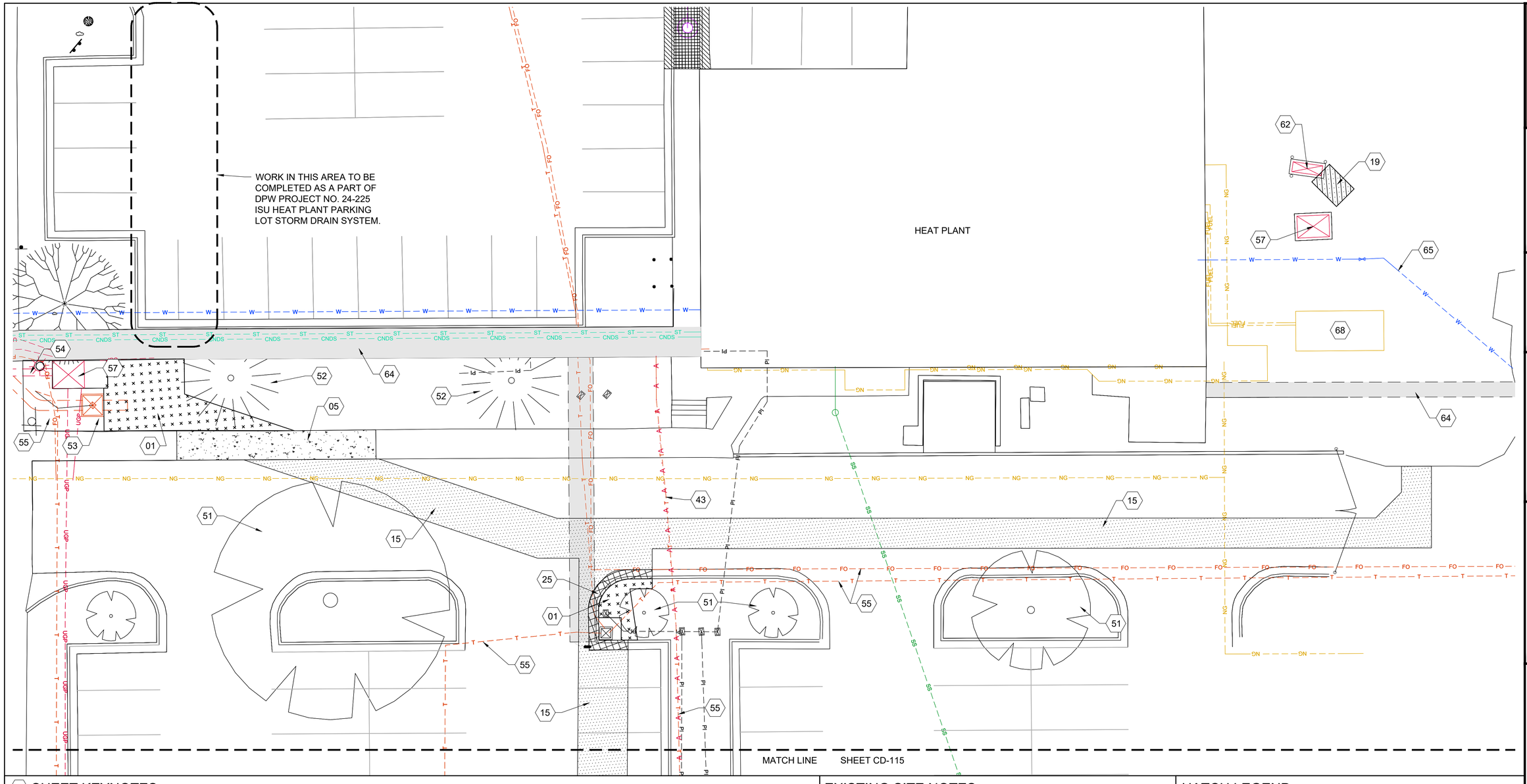
DRAWN: KJW | CHECK: MBH

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO.
208106-119

SHEET NO.
CD-113

Docusign Envelope ID: 2CEA88BF-EBC6-4121-8A49-A146A0BA41CA



SHEET KEYNOTES

01	DEMO, REMOVE LANDSCAPING, (SOD)/IRRIGATION SYSTEM AS REQUIRED FOR CONSTRUCTION. COORDINATE W/ISU IRRIGATION PLANS IN "APPENDIX A"
05	DEMO, SAWCUT AND REMOVE SIDEWALK
15	DEMO, SAWCUT AND REMOVE ASPHALT PAVING
19	DEMO, REMOVE GRAVEL SURFACE AS REQ'D FOR CONSTRUCTION
25	DEMO, SAWCUT AND REMOVE CURB & GUTTER
43	DEMO, ABANONDON IN PLACE EXISTING COMMUNICATIONS CONDUIT
51	PRESERVE & PROTECT DECIDUOUS TREE
52	PRESERVE & PROTECT, CONIFEROUS TREE
53	PRESERVE & PROTECT COMMUNICATION VAULT
54	PRESERVE & PROTECT COMMUNICATION/IDAHO POWER CONDUIT BANK
55	PRESERVE & PROTECT COMMUNICATION CONDUIT BANK
57	PRESERVE & PROTECT, IDAHO POWER TRANSFORMER
62	PRESERVE & PROTECT, IDAHO POWER VAULT & GEAR
64	PRESERVE & PROTECT, UTILITY TUNNEL
65	PRESERVE & PROTECT, WATER LINE
68	PRESERVE & PROTECT, UNDERGROUND FUEL TANK

EXISTING SITE NOTES

1. SEE MECHANICAL PLANS FOR DEMOLITION OF STEAM AND CONDENSATE LINES IN TUNNEL.
2. SEE ELECTRICAL PLANS FOR DEMOLITION OF ELECTRICAL AND COMMUNICATIONS SYSTEMS IN TUNNEL.
3. PRESERVE AND PROTECT SITE AND UTILITY FEATURES OUTSIDE OF THE AREAS NOTED AND NOT CALLED OUT ON THESE PLANS UNLESS OTHERWISE NOTED.
4. PRESERVE AND PROTECT ALL LANDSCAPING, MULCH, SOD, SHRUBS, TREES, MONUMENTS, SIDEWALKS, CURBING, ETC. THAT ARE OUTSIDE THE PROJECT LIMITS UNLESS OTHERWISE NOTED. TREES TO BE PROTECTED WITH 6' TALL CHAIN LINK FENCING 10-FOOT MINIMUM FROM OUTSIDE OF TREE TRUNK.
5. CONTRACTOR TO VERIFY ALL INFORMATION ON THESE PLANS IN THE FIELD.
6. IRRIGATION SYSTEM COMPONENTS SUCH AS VALVES, BOXES, HEADS, PIPING, WIRING, ETC. THAT ARE REMOVED OR DAMAGED DUE TO CONSTRUCTION ACTIVITIES ARE TO BE REPLACED WITH IN KIND OR BETTER MATERIALS.
7. FOR EXISTING IRRIGATION SYSTEM SEE SHEETS 15, 16, 20, 21, 26, AND 27 IN APPENDIX A.

HATCH LEGEND

ASPHALT DEMO
SOD DEMO
TUNNEL DEMO
CONCRETE SIDEWALK DEMO
CURB DEMO
MULCH DEMO
ROCK MULCH DEMO
GRAVEL DEMO

0 10 20

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8/27/2025
STATE OF IDAHO
MATTHEW B. HILL

NO.	REVISIONS	DATE

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DPW PROJECT #24-246SC
ISU: REPAIR UTILIDOR TUNNEL, PHASE 3

IDAHO STATE UNIVERSITY

DEMOLITION PLAN

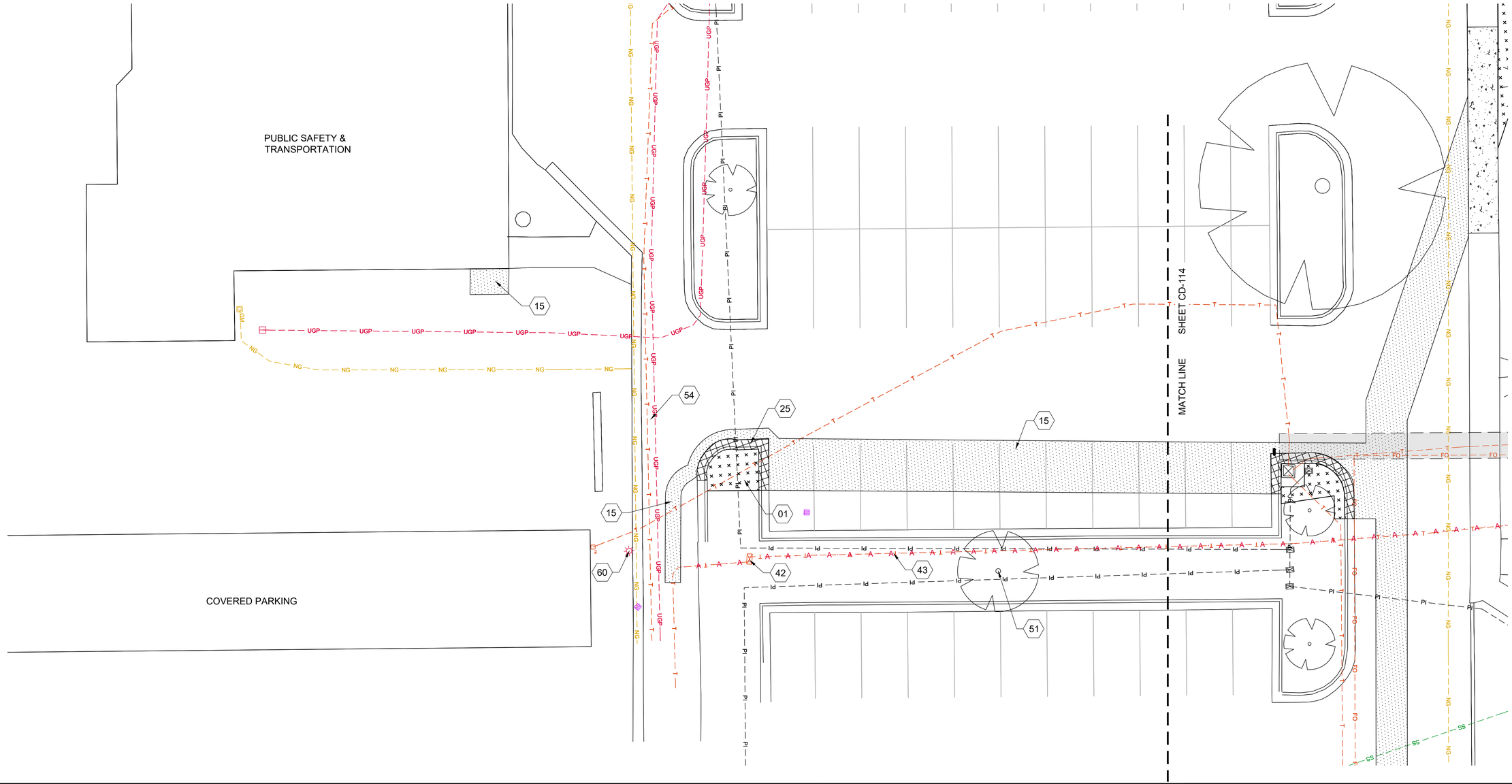
DRAWN: KJW | CHECK: MBH

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO.
208106-119

SHEET NO.
CD-114

Docusign Envelope ID: 2CEA88BF-EBC6-4121-8A49-A146A0BA41CA



SHEET KEYNOTES

01	DEMO, REMOVE LANDSCAPING, (SOD)/IRRIGATION SYSTEM AS REQUIRED FOR CONSTRUCTION. COORDINATE W/ISU IRRIGATION PLANS IN "APPENDIX A"
15	DEMO, SAWCUT AND REMOVE ASPHALT PAVING
25	DEMO, SAWCUT AND REMOVE CURB & GUTTER
42	DEMO, REMOVE EXISTING COMMUNICATIONS PEDISTAL
43	DEMO, ABANONDON IN PLACE EXISTING COMMUNICATIONS CONDUIT
51	PRESERVE & PROTECT DECIDUOUS TREE
54	PRESERVE & PROTECT COMMUNICATION/IDAHO POWER CONDUIT BANK
60	PRESERVE & PROTECT, LIGHT POLE

EXISTING SITE NOTES

1. SEE MECHANICAL PLANS FOR DEMOLITION OF STEAM AND CONDENSATE LINES IN TUNNEL.
2. SEE ELECTRICAL PLANS FOR DEMOLITION OF ELECTRICAL AND COMMUNICATIONS SYSTEMS IN TUNNEL.
3. PRESERVE AND PROTECT SITE AND UTILITY FEATURES OUTSIDE OF THE AREAS NOTED AND NOT CALLED OUT ON THESE PLANS UNLESS OTHERWISE NOTED.
4. PRESERVE AND PROTECT ALL LANDSCAPING, MULCH, SOD, SHRUBS, TREES, MONUMENTS, SIDEWALKS, CURBING, ETC. THAT ARE OUTSIDE THE PROJECT LIMITS UNLESS OTHERWISE NOTED. TREES TO BE PROTECTED WITH 6' TALL CHAIN LINK FENCING 10-FOOT MINIMUM FROM OUTSIDE OF TREE TRUNK.
5. CONTRACTOR TO VERIFY ALL INFORMATION ON THESE PLANS IN THE FIELD.
6. IRRIGATION SYSTEM COMPONENTS SUCH AS VALVES, BOXES, HEADS, PIPING, WIRING, ETC. THAT ARE REMOVED OR DAMAGED DUE TO CONSTRUCTION ACTIVITIES ARE TO BE REPLACED WITH IN KIND OR BETTER MATERIALS.
7. FOR EXISTING IRRIGATION SYSTEM SEE SHEETS 15, 16, 20, 21, 26, AND 27 IN APPENDIX A.

HATCH LEGEND

- ASPHALT DEMO
- SOD DEMO
- TUNNEL DEMO
- CONCRETE SIDEWALK DEMO
- CURB DEMO
- MULCH DEMO
- ROCK MULCH DEMO
- GRAVEL DEMO

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DPW PROJECT #24-246SC
ISU: REPAIR UTILITY TUNNEL, PHASE 3

IDAHO STATE UNIVERSITY

DEMOLITION PLAN

DRAWN: KJW | CHECK: MBH

VERIFY SCALE: Scales based on 22"x34" prints.

1-1/2 Inches

PROJECT NO.
208106-119

SHEET NO.
CD-115

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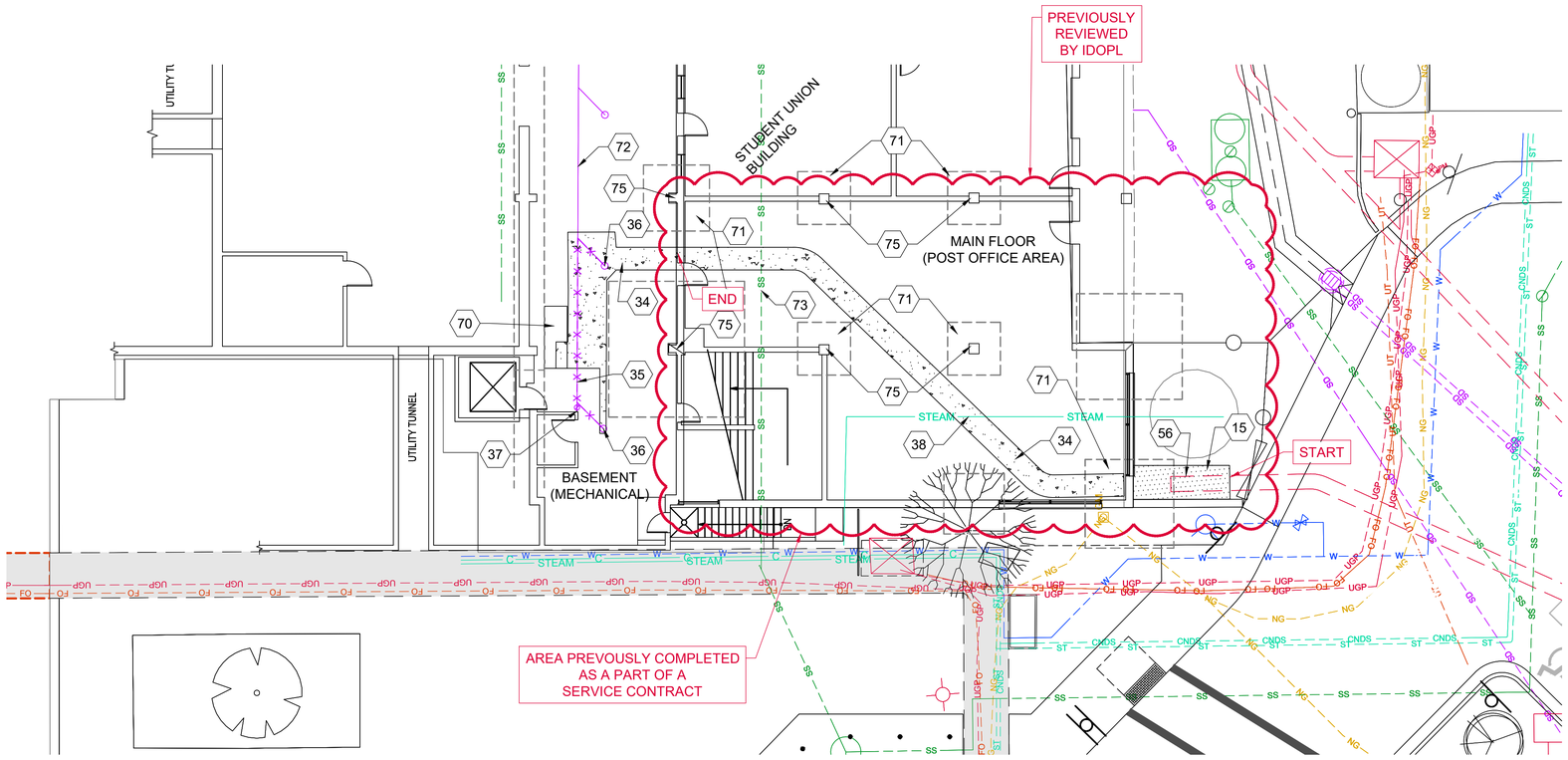

SHEET KEYNOTES

15	DEMO, SAWCUT AND REMOVE ASPHALT PAVING
34	DEMO, SAWCUT AND REMOVE CONCRETE FLOOR FOR POWER CONDUIT BANK
35	DEMO, REMOVE/ABANDON EXISTING UNDERSLAB DRAIN PIPE
36	DEMO, REMOVE FLOOR DRAIN
37	DEMO, REMOVE CLEANOUT GRATE AND FILL WITH CONCRETE
38	DEMO, CUT EXSTING STEAM/CONDENSATE PIPING IF ALREADY ABANDONED (FIELD VERIFY)
56	PRESERVE & PROTECT IDAHO POWER CONDUIT BANK
70	PRESERVE & PROTECT, SWITCH GEAR, RE: ELECTRICAL PLANS
71	PRESERVE & PROTECT, BUILDING FOOTINGS
72	PRESERVE & PROTECT, UNDERSLAB DRAIN LINE
73	PRESERVE & PROTECT, UNDERSLAB BUILDING SEWER LINE
75	PRESERVE & PROTECT, BUILDING INTERIOR COLUMN

EXISTING SITE NOTES

1. SEE MECHANICAL PLANS FOR DEMOLITION OF STEAM AND CONDENSATE LINES IN TUNNEL.
2. SEE ELECTRICAL PLANS FOR DEMOLITION OF ELECTRICAL AND COMMUNICATIONS SYSTEMS IN TUNNEL.
3. PRESERVE AND PROTECT SITE AND UTILITY FEATURES OUTSIDE OF THE AREAS NOTED AND NOT CALLED OUT ON THESE PLANS UNLESS OTHERWISE NOTED.
4. PRESERVE AND PROTECT ALL LANDSCAPING, MULCH, SOD, SHRUBS, TREES, MONUMENTS, SIDEWALKS, CURBING, ETC. THAT ARE OUTSIDE THE PROJECT LIMITS UNLESS OTHERWISE NOTED. TREES TO BE PROTECTED WITH 6' TALL CHAIN LINK FENCING 10-FOOT MINIMUM FROM OUTSIDE OF TREE TRUNK.
5. CONTRACTOR TO VERIFY ALL INFORMATION ON THESE PLANS IN THE FIELD.
6. IRRIGATION SYSTEM COMPONENTS SUCH AS VALVES, BOXES, HEADS, PIPING, WIRING, ETC. THAT ARE REMOVED OR DAMAGED DUE TO CONSTRUCTION ACTIVITIES ARE TO BE REPLACED WITH IN KIND OR BETTER MATERIALS.
7. FOR EXISTING IRRIGATION SYSTEM SEE SHEETS 15, 16, 20, 21, 26, AND 27 IN APPENDIX A.

HATCH LEGEND

- ASPHALT DEMO
- SOD DEMO
- TUNNEL DEMO
- CONCRETE SIDEWALK DEMO
- CURB DEMO
- MULCH DEMO
- ROCK MULCH DEMO
- GRAVEL DEMO

0 10 20

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DPW PROJECT #24-246SC
ISU: REPAIR UTILITY TUNNEL, PHASE 3

IDAHO STATE UNIVERSITY

DEMOLITION PLAN

DRAWN: KJW | CHECK: MBH

VERIFY SCALE: Scales based on 22"x34" prints.

1-1/2 Inches

PROJECT NO.
208106-119

SHEET NO.
CD-116

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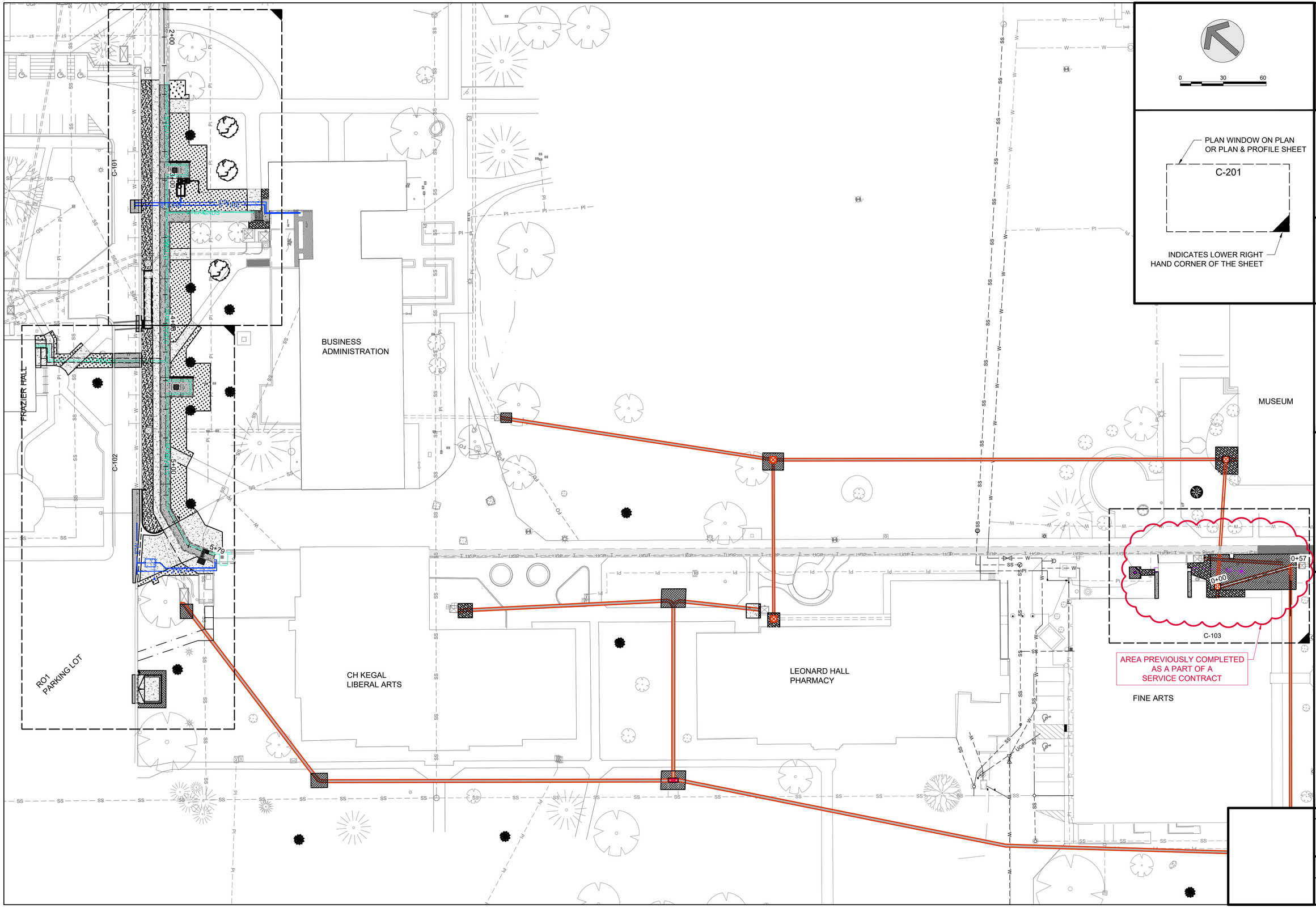

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PLAN WINDOW ON PLAN OR PLAN & PROFILE SHEET

C-201

INDICATES LOWER RIGHT HAND CORNER OF THE SHEET

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DPW PROJECT #24-246SC
ISU: REPAIR UTILITY TUNNEL, PHASE 3

IDAHO STATE UNIVERSITY

OVERALL SITE & TUNNEL PLAN

DRAWN: KJW | CHECK: MBH

VERIFY SCALE: Scales based on 22"x34" prints.

1-1/2 Inches

PROJECT NO.
208106-119

SHEET NO.
C-100

J:\208106-119 ISU REPLACE UTILITY TUNNEL, PHASE 3\C_DESN_CAD\3_DESIGN\D_PLANS-1\C-101.DWG LAST SAVED: 8/25/2025 3:56 PM PRINTED: 8/26/2025 9:39 AM

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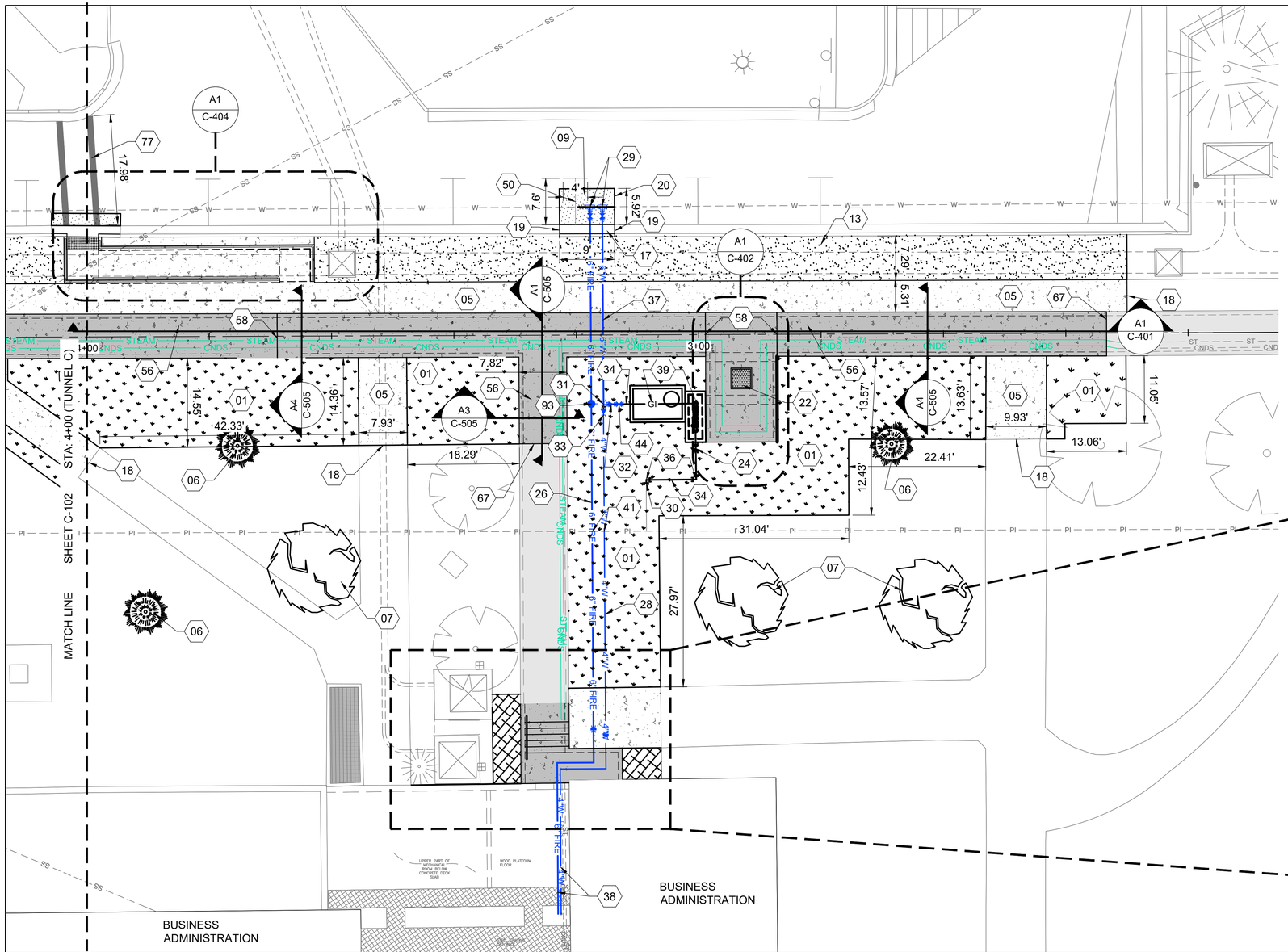

HATCH LEGEND

- ASPHALT
- NEW TUNNEL
- SOD
- CONCRETE
- MULCH
- ROCK MULCH

SHEET KEYNOTES

01	LANDSCAPING, (SOD), REPAIR IRRIGATION AS REQUIRED FOR CONSTRUCTION. REPLACE IN KIND OR BETTER, RE: A3/C-501 & IRRIGATION NOTES SHEET G-002
02	LANDSCAPING, (MULCH), REPAIR IRRIGATION AS REQUIRED FOR CONSTRUCTION. REPLACE IN KIND OR BETTER, RE: A3/C-501 & IRRIGATION NOTES SHEET G-002
05	SIDEWALK, RE: A1/C-501
06	INSTALL NEW TREE, (COLORADO BLUE SPRUCE, PICEA PUNGENS) 12-14' TALL, RE: C4/C-501
07	INSTALL NEW TREE, (PACIFIC SUNSET MAPLE, ACER X PACIFICA SUNSET) 1.5" OR LARGER CALIPER, B&B OR CONTAINER, MULTI-TRUNK, FULL, EVENLY BRANCHED, MATCHED, RE: C4/C-501
09	ASPHALT REPAIR, RE: C3/C-501
13	LANDSCAPING, (ROCK MULCH), REPAIR IRRIGATION AS REQUIRED FOR CONSTRUCTION. REPLACE IN KIND OR BETTER, RE: A4/C-501 & IRRIGATION NOTES SHEET G-002
17	STANDARD CURB & GUTTER, RE: A1/C-502
18	TIE TO EXISTING SIDEWALK/ CONCRETE PAVING, SURFACE TO BE FLUSH BETWEEN NEW AND EXSTING CONCRETE
19	TIE TO EXISTING CURB, SURFACE TO BE FLUSH BETWEEN NEW AND EXSTING CONCRETE
20	ASPHALT TIE IN, RE: A5/C-501
22	ACCESS HATCH, RE: A1/C-506
24	IRRIGATION LINE FITTING, 3" GATE VALVE, RE: A3/C-502
25	PIPE PENETRATION IN NEW CONCRETE WALL, RE: B5/C-503
26	6" WATER LINE, FIRE SERVICE, RE: C2/C-502
28	4" WATER LINE, BUILDING SERVICE LINE, RE: C2/C-502
29	WATER LINE FITTING, 6" TAPPING TEE AND VALVE, RE: A3 & C1/C-502 & B5/C-504
30	CONNECT NEW IRRIGATION PIPING TO EXISTING IRRIGATION PIPING, CONTRACTOR TO VERIFY EXACT LOCATION AND DEPTH
31	WATER LINE FITTING, 6" TEE, RE: C1/C-502
32	WATER LINE FITTING, 6" x 3" REDUCER, RE: C1/C-502
33	WATER LINE FITTING, 6" x 4" REDUCER, RE: C1/C-502
34	3" IRRIGATION LINE, RE: C2/C-502
36	IRRIGATION LINE FITTING, 3" 90° BEND, RE: C1/C-502
37	6" WATER LINE, SERVICE LINE (IRRIGATION & BUILDING), RE: C2/C-502
38	FOR WATER PIPING INSIDE BUILDING, RE: MECHANCIAL PLANS
39	IRRIGATION BACKFLOW ASSEMBLY AND VAULT, RE: A1/C-503
41	POTABLE/NON-POTABLE WATER LINE CROSSING, RE: A1/C-504
42	PIPE PENETRATION IN EXISTING CONCRETE WALL, RE: B3/C-502
43	WATER LINE FITTING, FLEXIBLE COUPLING, RE: C3/C-502
44	WATER LINE FITTING, 3" GATE VALVE, RE: A3/C-502
50	PARKING STALL MARKING, 4" WHITE PAINTED LINE
56	NEW CONCRETE TUNNEL
58	TUNNEL CONSTRUCTION JOINT, RE: B1 & C2/C-505
67	CONNECT NEW TUNNEL TO EXISTING TUNNEL, RE: C3/C-505
68	PLACE WATER STOP BETWEEN END OF NEW TUNNEL AND BUILDING FOR WALLS, FLOORS, AND ROOF DECK
77	ADA CROSSING, 1'-0" WIDE WHITE PAINTED LINE
86	FOUNDATION WATER PROOFING REPAIR, RE: B5/C-506
93	POST INDICATOR VALVE, RE: C5/C-504

SITE NOTES

1. COORDINATE WITH MECHANICAL PLANS FOR NEW STEAM AND CONDENSATE LINES AND VENTILATION SYSTEM.
2. COORDINATE WITH ELECTRICAL PLANS FOR ELECTRICAL AND COMMUNICATIONS SYSTEMS.
3. SEE SHEETS C-300 THROUGH C-320 FOR POWER AND COMMUNICATIONS CONDUIT PLANS AND PROFILES.
4. **ALL FIRE LINE PIPING SHALL BE INSTALLED BY A LICENSED FIRE SPRINKLER CONTRACTOR AS REQUIRED BY IDAHO STATE LAW. OBTAIN APPROPRIATE FIRE SPRINKLER PERMIT PRIOR TO INSTALLATION.**

0 10 20

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MATTHEW B. HILL

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DPW PROJECT #24-246SC
ISU: REPAIR UTILITY TUNNEL, PHASE 3

IDAHO STATE UNIVERSITY

SITE & TUNNEL PLAN

DRAWN: KJW | CHECK: MBH

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

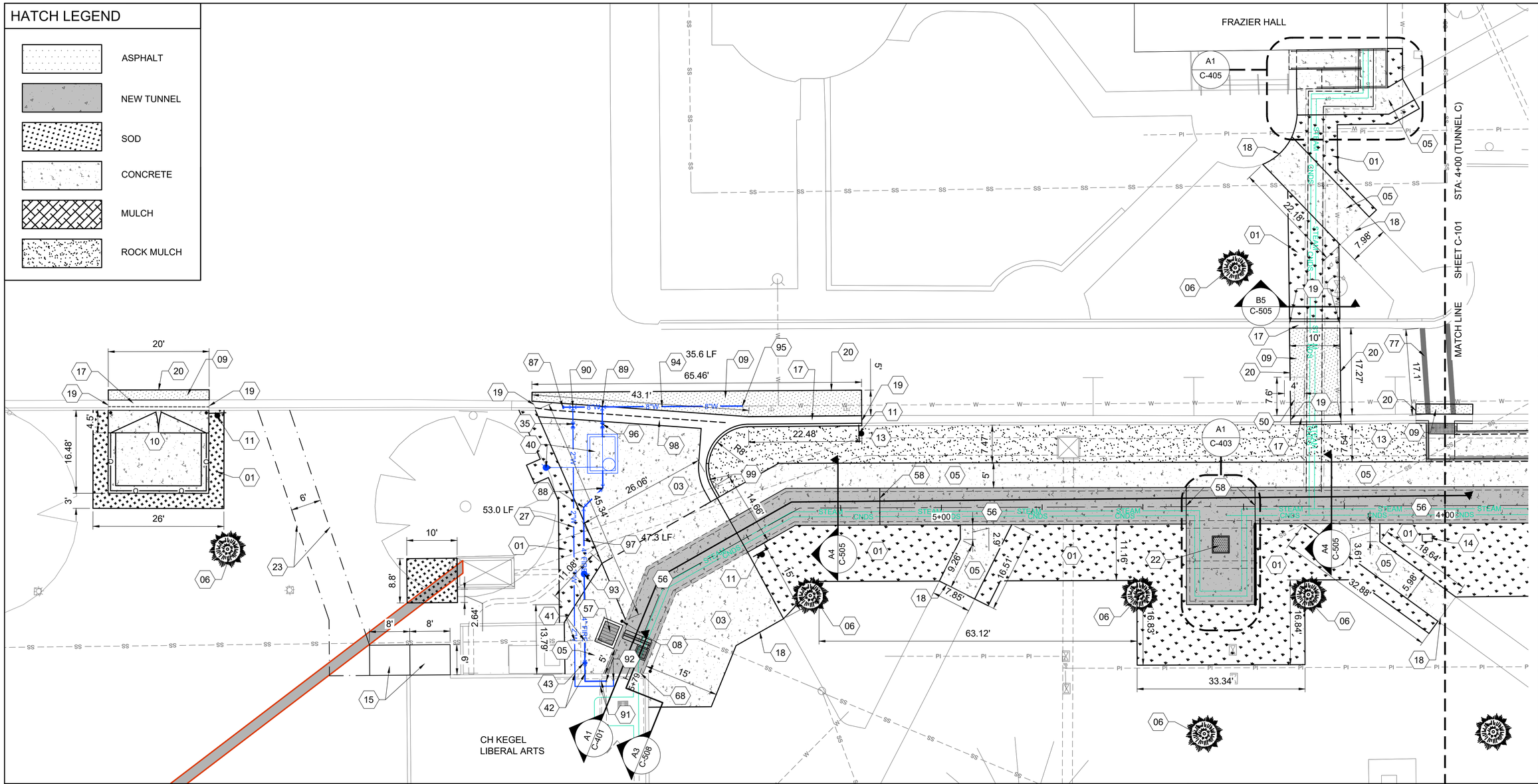
PROJECT NO.
208106-119

SHEET NO.
C-101

Docusign Envelope ID: 2CEA88BF-EBC6-4121-8A49-A146A0BA41CA

HATCH LEGEND

- ASPHALT
- NEW TUNNEL
- SOD
- CONCRETE
- MULCH
- ROCK MULCH



SHEET KEYNOTES

01	LANDSCAPING, (SOD), REPAIR IRRIGATION AS REQUIRED FOR CONSTRUCTION. REPLACE IN KIND OR BETTER, RE: A3/C-501 & IRRIGATION NOTES SHEET G-002
03	CONCRETE PAVING, HEAVY DUTY, RE: C1/C-501
05	SIDEWALK, RE: A1/C-501
06	INSTALL NEW TREE, (COLORADO BLUE SPRUCE, PICEA PUNGENS) 12-14' TALL, RE: C4/C-501
08	6" BOLLARD, RE: B5/C-502
09	ASPHALT REPAIR, RE: C3/C-501
10	GARBAGE DUMPSTER ENCLOSURE, RE: B4/C-501
11	REINSTALL SIGN, RE: B1/C-501
13	LANDSCAPING, (ROCK MULCH), REPAIR IRRIGATION AS REQUIRED FOR CONSTRUCTION. REPLACE IN KIND OR BETTER, RE: A4/C-501 & IRRIGATION NOTES SHEET G-002
14	REINSTALL MEMORIAL MONUMENT
15	FRAME TEMPORARY RAMP AND LANDING OUT OF WOOD/PLYWOOD FOR PEDESTRIAN ACCESS TO CONCRETE ROOF/DECK.
17	STANDARD CURB & GUTTER, RE: A1/C-502
18	TIE TO EXISTING SIDEWALK/ CONCRETE PAVING, SURFACE TO BE FLUSH BETWEEN NEW AND EXSTING CONCRETE
19	TIE TO EXISTING CURB, SURFACE TO BE FLUSH BETWEEN NEW AND EXSTING CONCRETE
20	ASPHALT TIE IN, RE: A5/C-501
22	ACCESS HATCH, RE: A1/C-506
23	TEMPORARY FENCED PEDESTRIAN PATH FOR ACCESS FROM PARKING TO CONCRETE ROOF/DECK
27	2" HDPE WATER LINE, BUILDING SERVICE LINE, RE: C2/C-502
35	WATER LINE FITTING, 2" CURB STOP AND BOX
40	FIRE LINE BACKFLOW PREVENTION VAULT AND REMOTE FDC CONNECTION, RE: A1/C-511
41	POTABLE/NON-POTABLE WATER LINE CROSSING, RE: A1/C-504
42	PIPE PENETRATION IN EXISTING CONCRETE WALL, RE: B3/C-502
43	WATER LINE FITTING, FLEXIBLE COUPLING, RE: C3/C-502
50	PARKING STALL MARKING, 4" WHITE PAINTED LINE
56	NEW CONCRETE TUNNEL
57	VENTILATION SHAFT, RE: A1/C-508
58	TUNNEL CONSTRUCTION JOINT, RE: B1 & C2/C-505
68	PLACE WATER STOP BETWEEN END OF NEW TUNNEL AND BUILDING FOR WALLS, FLOORS, AND ROOF DECK
77	ADA CROSSING, 1'-0" WIDE WHITE PAINTED LINE
87	WATER LINE FITTING, 8" CAP, RE: C1/C-502
88	WATER LINE FITTING, 4" 45º BEND, RE: C1/C-502
89	WATER LINE FITTING, 8" x 4" TEE, RE: C1/C-502
90	WATER LINE FITTING, 2" SERVICE SADDLE
91	EXTEND WATER/FIRE LINES THROUGH EXISITNG WALL. SEAL AROUND PIPE, RE: MECHANICAL PLANS
92	RECONNECT FIRE AND WATER SERVICE LINE TO EXISTING VALVING, RE: MECHANICAL PLANS
93	POST INDICATOR VALVE, RE: C5/C-504
94	8" PVC WATER LINE, RE: C2/C-502
95	CONNECT NEW WATER LINE TO END OF EXISTING WATER LINE, CONTRACTOR TO VERIFY LOCATION AND DEPTH
96	WATER LINE FITTING, 4" GATE VALVE, RE: A3/C-502
97	4" PVC WATER LINE, FIRE SERVICE, RE: C2/C502
98	3' VALLEY GUTTER, RE: C4/C-502
99	CURB TERMINATION, TOP OF CURB, RE:C5/C-502

SITE NOTES

1. COORDINATE WITH MECHANICAL PLANS FOR NEW STEAM AND CONDENSATE LINES AND VENTILATION SYSTEM.
2. COORDINATE WITH ELECTRICAL PLANS FOR ELECTRICAL AND COMMUNICATIONS SYSTEMS.
3. SEE SHEETS C-300 THROUGH C-320 FOR POWER AND COMMUNICATIONS CONDUIT PLANS AND PROFILES.
4. **ALL FIRE LINE PIPING SHALL BE INSTALLED BY A LICENSED FIRE SPRINKLER CONTRACTOR AS REQUIRED BY IDAHO STATE LAW. OBTAIN APPROPRIATE FIRE SPRINKLER PERMIT PRIOR TO INSTALLATION.**

0 10 20

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STATE OF IDAHO
MATTHEW B. HILL

NO.	REVISIONS	DATE

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DPW PROJECT #24-246SC
ISU: REPAIR UTILITY TUNNEL, PHASE 3

IDAHO STATE UNIVERSITY

SITE & TUNNEL PLAN

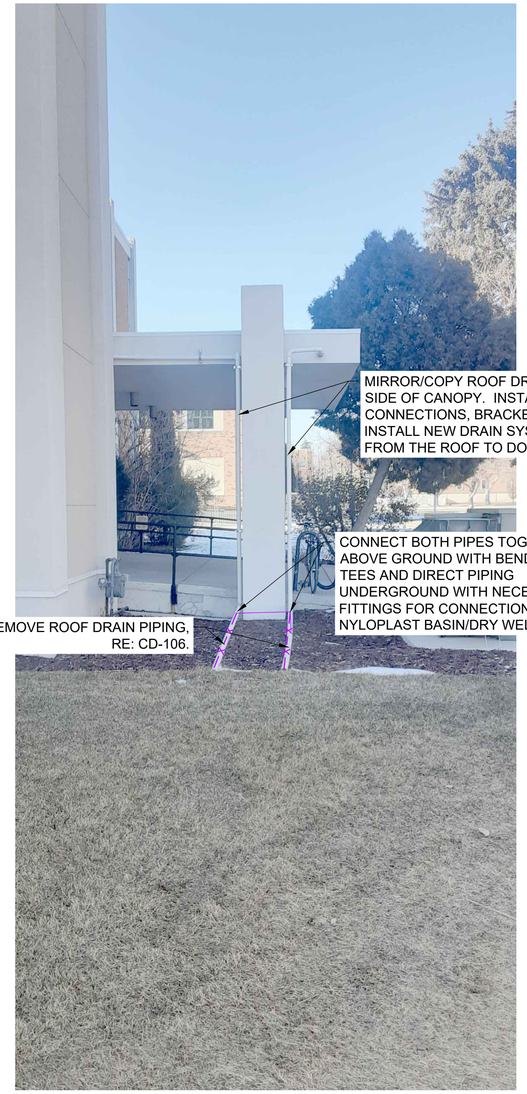
DRAWN: KJW | CHECK: MBH

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO.
208106-119

SHEET NO.
C-102

Docusign Envelope ID: 2CEA88BF-EBC6-4121-8A49-A146A0BA41CA

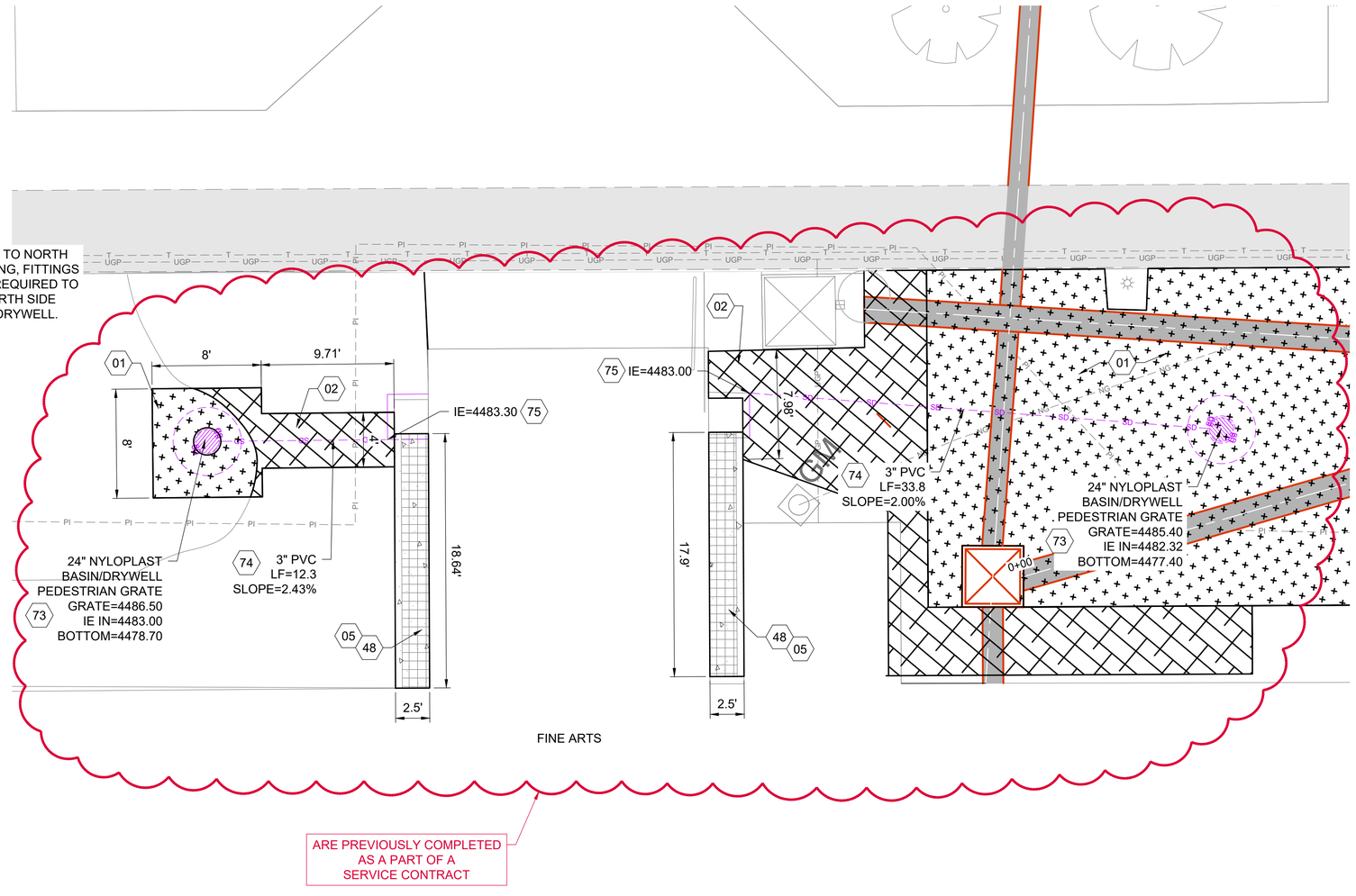


REMOVE ROOF DRAIN PIPING, RE: CD-106.

MIRROR/COPY ROOF DRAIN SYSTEM TO NORTH SIDE OF CANOPY. INSTALL PVC PIPING, FITTINGS CONNECTIONS, BRACKETS ETC.AS REQUIRED TO INSTALL NEW DRAIN SYSTEM ON NORTH SIDE FROM THE ROOF TO DOWN TO THE DRYWELL.

CONNECT BOTH PIPES TOGETHER ABOVE GROUND WITH BENDS AND TEES AND DIRECT PIPING UNDERGROUND WITH NECESSARY FITTINGS FOR CONNECTION TO NYLOPLAST BASIN/DRY WELL.

PHOTO OF SOUTH SIDE OF CANOPY



SHEET KEYNOTES

01	LANDSCAPING, (SOD), REPAIR IRRIGATION AS REQUIRED FOR CONSTRUCTION. REPLACE IN KIND OR BETTER, RE: A3/C-501 & IRRIGATION NOTES SHEET G-002
02	LANDSCAPING, (MULCH), REPAIR IRRIGATION AS REQUIRED FOR CONSTRUCTION. REPLACE IN KIND OR BETTER, RE: A3/C-501 & IRRIGATION NOTES SHEET G-002
05	SIDEWALK, RE: A1/C-501
48	FILL IN VOID SPACE IN AREA UNDER GRATING WITH GRAVEL UP TO TOP OF CURB WALL. PATCH ANY HOLES IN BASEMENT WALL, RE: C3/C-509
73	NYLOPLAST INLET BASIN/DRYWELL, RE: A3/C-510
74	SCH 40 PVC STORM DRAIN LINE, RE: C2/C-502
75	INSTALL BENDS AND TEES TO DIRECT PIPING UNERGROUND

HATCH LEGEND

- ASPHALT
- NEW TUNNEL
- SOD
- CONCRETE
- MULCH
- ROCK MULCH

SITE NOTES

1. COORDINATE WITH MECHANICAL PLANS FOR NEW STEAM AND CONDENSATE LINES AND VENTILATION SYSTEM.
2. COORDINATE WITH ELECTRICAL PLANS FOR ELECTRICAL AND COMMUNICATIONS SYSTEMS.
3. SEE SHEETS C-300 THROUGH C-320 FOR POWER AND COMMUNICATIONS CONDUIT PLANS AND PROFILES.

0 5 10

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(208) 238-2146

PROFESSIONAL ENGINEER
15381
8/27/2025
STATE OF IDAHO
MATTHEW B. HILL

NO.	REVISIONS	DATE

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DPW PROJECT #24-246SC
ISU: REPAIR UTILITY TUNNEL, PHASE 3

IDAHO STATE UNIVERSITY

SITE PLAN

DRAWN: KJW | CHECK: MBH

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO.
208106-119

SHEET NO.
C-103

Docusign Envelope ID: 2CEA88BF-EBC6-4121-8A49-A146A0BA41CA

PRINTED: 8/26/2025 9:40 AM
LAST SAVED: 8/26/2025 8:38 AM
J:\208106-119 ISU REPLACE UTILITY TUNNEL, PHASE 3\C_DESN_CAD\3_DESIGN\D_PLANS-11C-201.DWG

MARTIN LUTHER KING JR. WAY

CEZAR CHAVEZ AVE

LILLIBRIDGE ENGINEERING

PHYSICAL SCIENCE COMPLEX

ADMINISTRATION BUILDING

STUDENT UNION BUILDING

MUSEUM

FACILITIES SERVCIES

FRAZIER HALL

BUSINESS ADMINISTRATION

CH KEGEL LIBERAL ARTS

LEONARD HALL PHARMACY

FINE ARTS

HEAT PLANT

PUBLIC SAFETY & TRANSPORTATION

HUMBOLT ST.

S 5TH AVE

C-201

C-202

C-203

C-204

C-205

C-206

C-207

C-208

C-209

C-210

C-211

C-212

C-213

C-214

C-215

C-216

PREVIOUSLY REVIEWED BY IDOPL

ARE PREVIOUSLY COMPLETED AS A PART OF A SERVICE CONTRACT

0 50 100

PLAN WINDOW ON PLAN OR PLAN & PROFILE SHEET

C-201

INDICATES LOWER RIGHT HAND CORNER OF THE SHEET

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DPW PROJECT #24-246SC
ISU: REPAIR UTILITY TUNNEL, PHASE 3

IDAHO STATE UNIVERSITY

OVERALL GRADING PLAN

DRAWN: KJW | CHECK: MBH

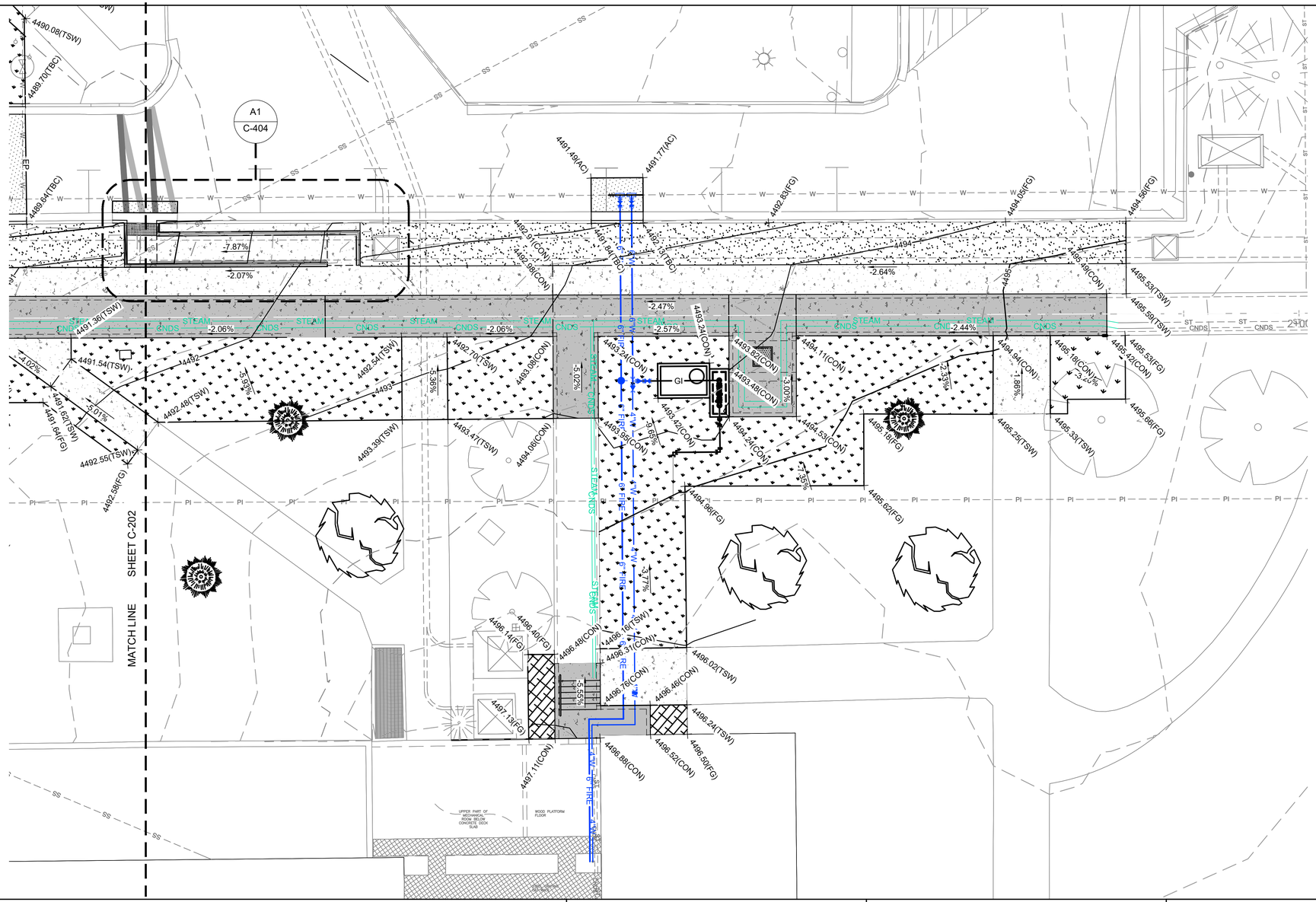
VERIFY SCALE: Scales based on 22"x34" prints.

1-1/2 Inches

PROJECT NO.
208106-119

SHEET NO.
C-200

Docusign Envelope ID: 2CEA88BF-EBC6-4121-8A49-A146A0BA41CA



GRADING LEGEND

TBC	TOP BACK OF CURB
CON	TOP OF CONCRETE
TSW	TOP OF SIDEWALK
AC	TOP OF ASPHALT
TO LID	TOP OF TUNNEL LID
FG	FINISH GRADE

GRADING NOTES

1. FINISH GRADES ARE INTENDED TO BE MATCH EXISTING GRADES PRIOR TO CONSTRUCTION. IF GRADES ON PLANS DO NOT MATCH GRADES IN THE FIELD, CONTRACT THE ENGINEER OF RECORD.

HATCH LEGEND

- ASPHALT DEMO
- TUNNEL DEMO
- CURB DEMO
- GRAVEL DEMO
- SOD DEMO
- CONCRETE SIDEWALK DEMO
- MULCH DEMO
- ROCK MULCH DEMO

0 10 20

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DPW PROJECT #24-246SC
ISU: REPAIR UTILITY TUNNEL, PHASE 3

IDAHO STATE UNIVERSITY

GRADING PLAN

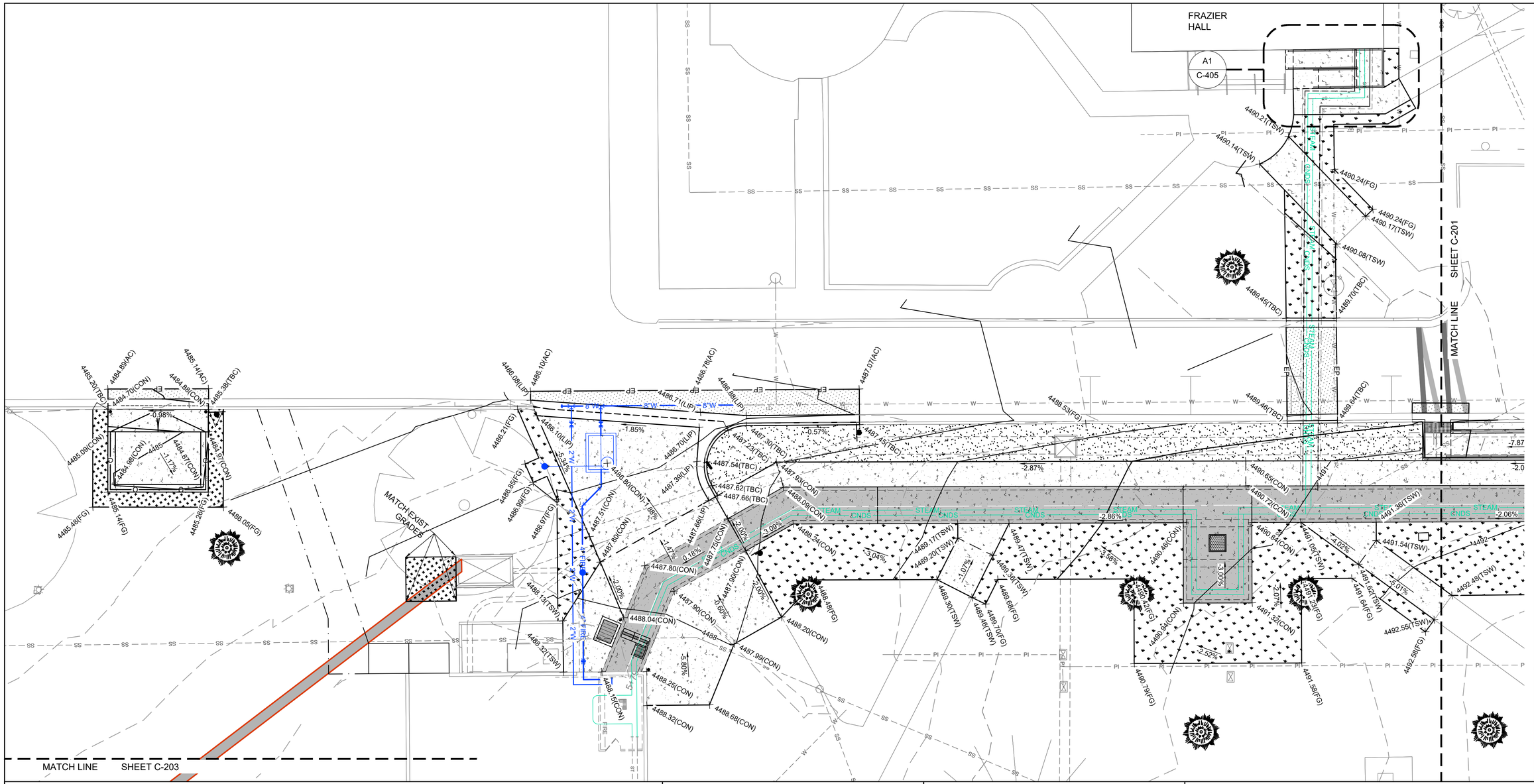
DRAWN: KJW | CHECK: MBH

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO.
208106-119

SHEET NO.
C-201

Docusign Envelope ID: 2CEA88BF-EBC6-4121-8A49-A146A0BA41CA



GRADING LEGEND

TBC	TOP BACK OF CURB
CON	TOP OF CONCRETE
TSW	TOP OF SIDEWALK
AC	TOP OF ASPHALT
TO LID	TOP OF TUNNEL LID
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DPW PROJECT #24-246SC
ISU: REPAIR UTILITY TUNNEL, PHASE 3

IDAHO STATE UNIVERSITY

GRADING PLAN

DRAWN: KJW | CHECK: MBH

VERIFY SCALE: Scales based on 22"x34" prints.

1-1/2 Inches

PROJECT NO.
208106-119

SHEET NO.
C-202

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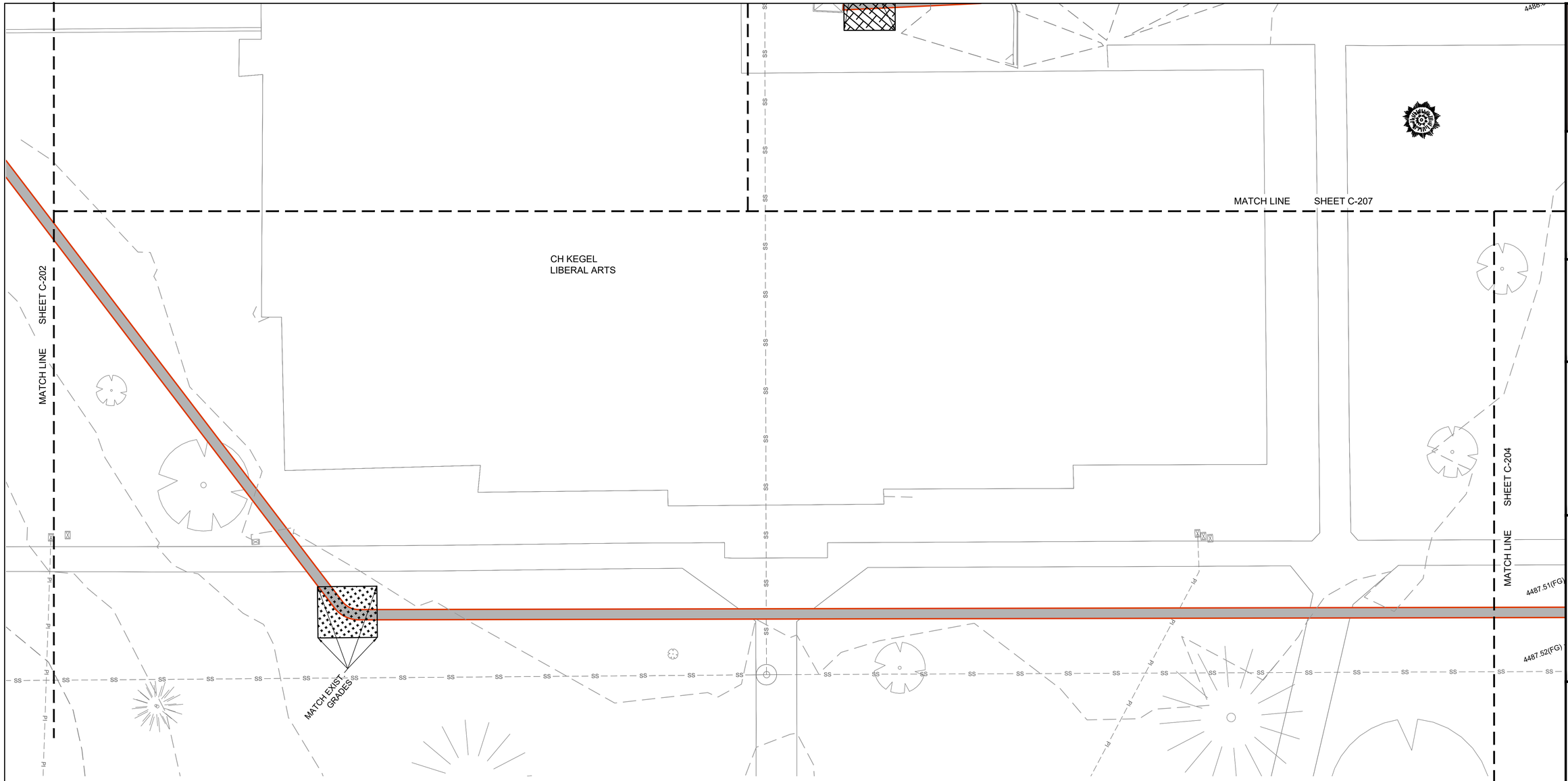

GRADING LEGEND

TBC	TOP BACK OF CURB
CON	TOP OF CONCRETE
TSW	TOP OF SIDEWALK
AC	TOP OF ASPHALT
TO LID	TOP OF TUNNEL LID
FG	FINISH GRADE

GRADING NOTES

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DPW PROJECT #24-246SC
ISU: REPAIR UTILITY TUNNEL, PHASE 3

IDAHO STATE UNIVERSITY

GRADING PLAN

DRAWN: KJW | CHECK: MBH

VERIFY SCALE: Scales based on 22"x34" prints.

1-1/2 Inches

PROJECT NO.
208106-119

SHEET NO.
C-203

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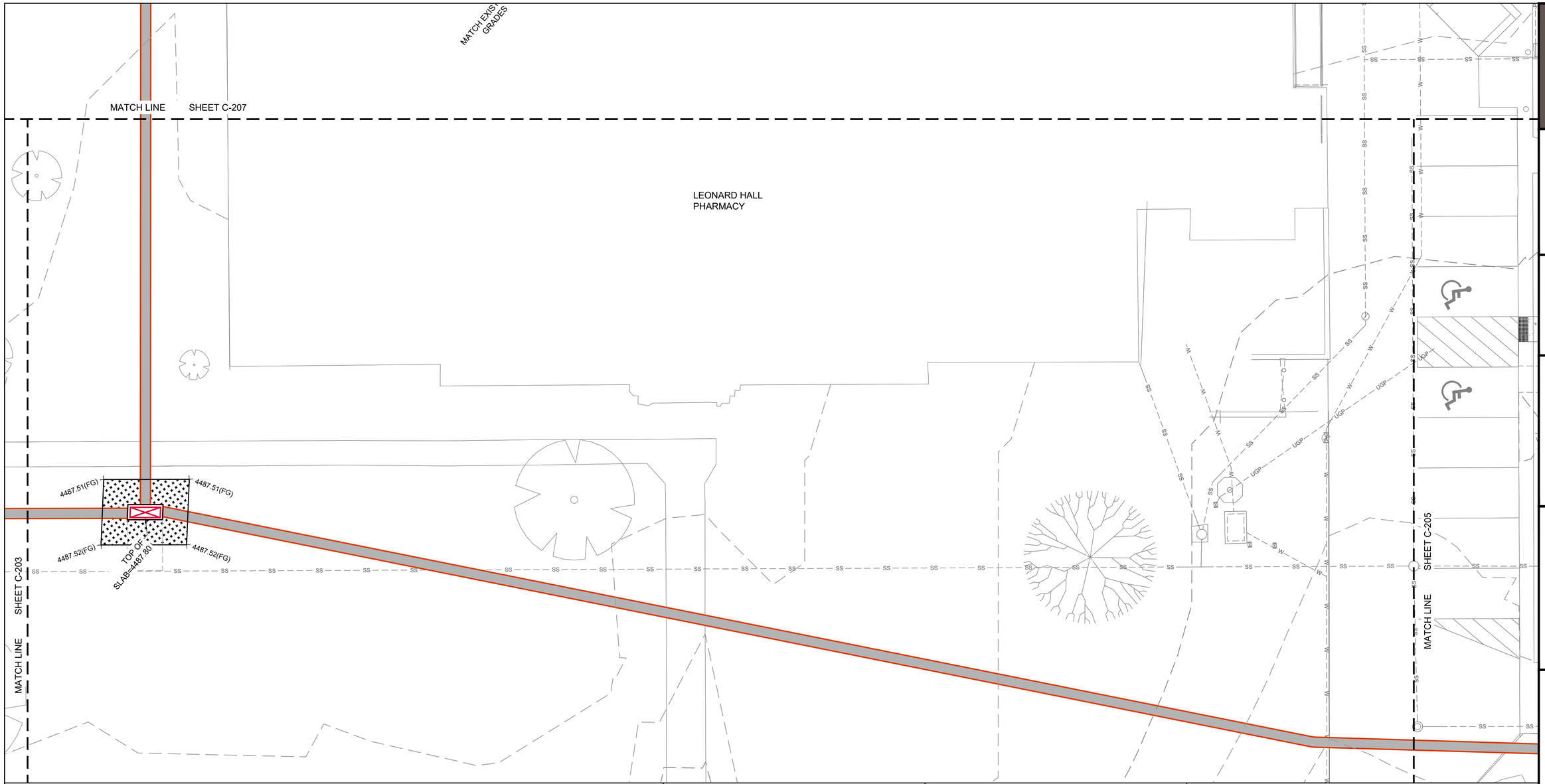

GRADING LEGEND

TBC	TOP BACK OF CURB
CON	TOP OF CONCRETE
TSW	TOP OF SIDEWALK
AC	TOP OF ASPHALT
TO LID	TOP OF TUNNEL LID
FG	FINISH GRADE

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DPW PROJECT #24-246SC
ISU: REPAIR UTILITY TUNNEL, PHASE 3

IDAHO STATE UNIVERSITY

GRADING PLAN

DRAWN: KJW | CHECK: MBH

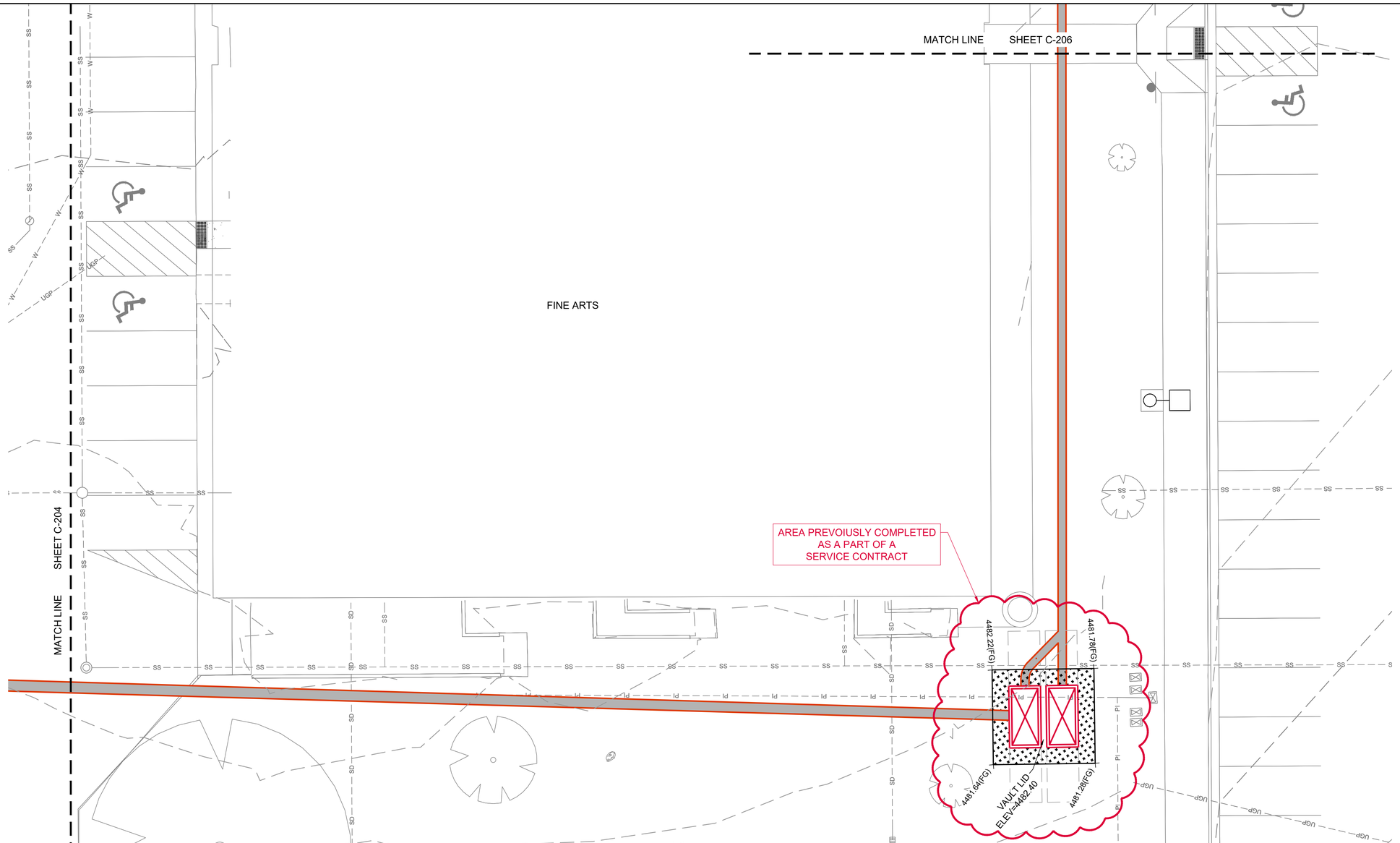
VERIFY SCALE: Scales based on 22"x34" prints.

1-1/2 Inches

PROJECT NO.
208106-119

SHEET NO.
C-204

Docusign Envelope ID: 2CEA88BF-EBC6-4121-8A49-A146A0BA41CA



GRADING LEGEND

TBC	TOP BACK OF CURB
CON	TOP OF CONCRETE
TSW	TOP OF SIDEWALK
AC	TOP OF ASPHALT
TO LID	TOP OF TUNNEL LID
FG	FINISH GRADE

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DPW PROJECT #24-246SC
ISU: REPAIR UTILITY TUNNEL, PHASE 3

IDAHO STATE UNIVERSITY

GRADING PLAN

DRAWN: KJW | CHECK: MBH

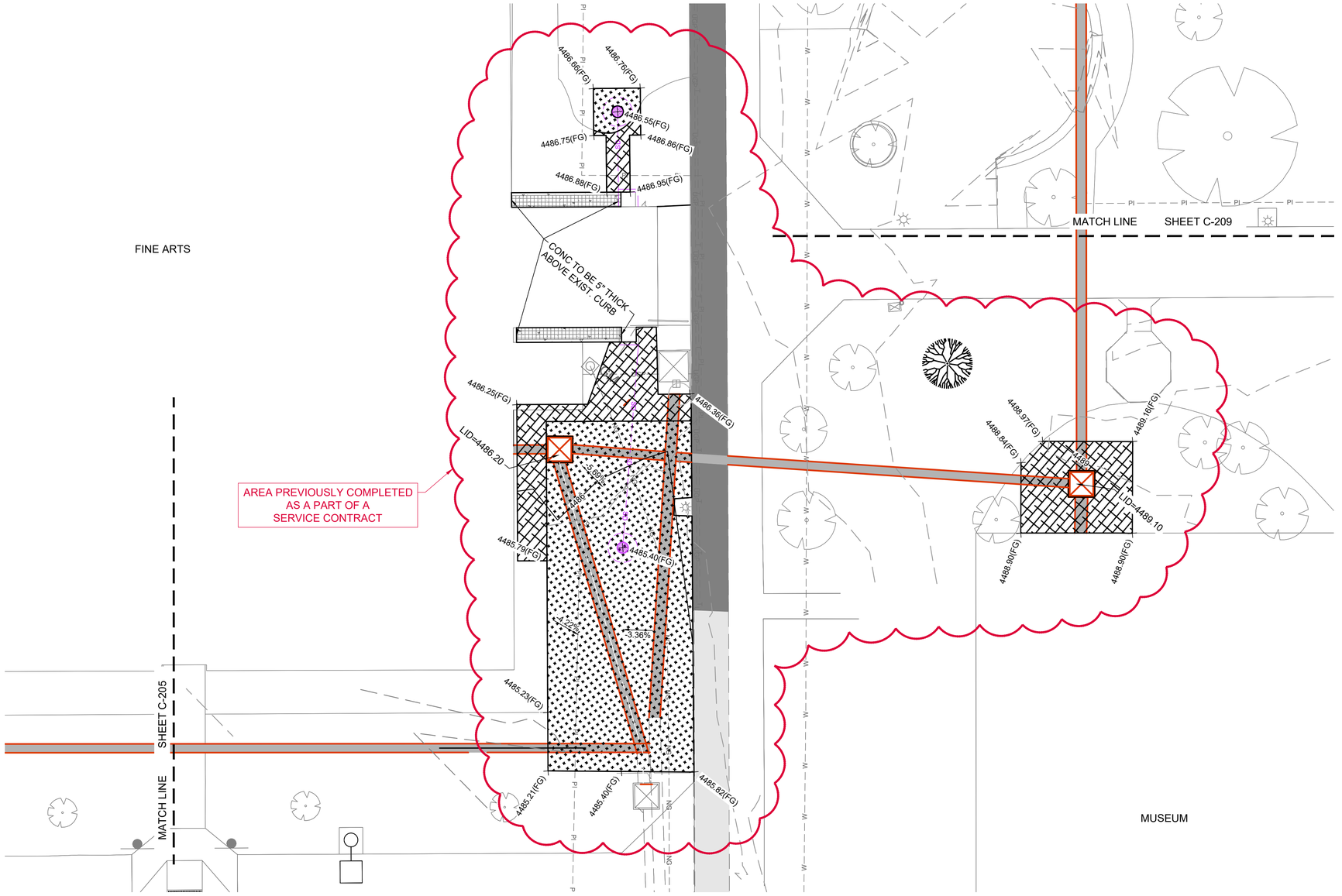
VERIFY SCALE: Scales based on 22"x34" prints.

1-1/2 Inches

PROJECT NO.
208106-119

SHEET NO.
C-205

Docusign Envelope ID: 2CEA88BF-EBC6-4121-8A49-A146A0BA41CA



GRADING LEGEND

TBC	TOP BACK OF CURB
CON	TOP OF CONCRETE
TSW	TOP OF SIDEWALK
AC	TOP OF ASPHALT
TO LID	TOP OF TUNNEL LID
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DPW PROJECT #24-246SC
ISU: REPAIR UTILITY TUNNEL, PHASE 3

IDAHO STATE UNIVERSITY

GRADING PLAN

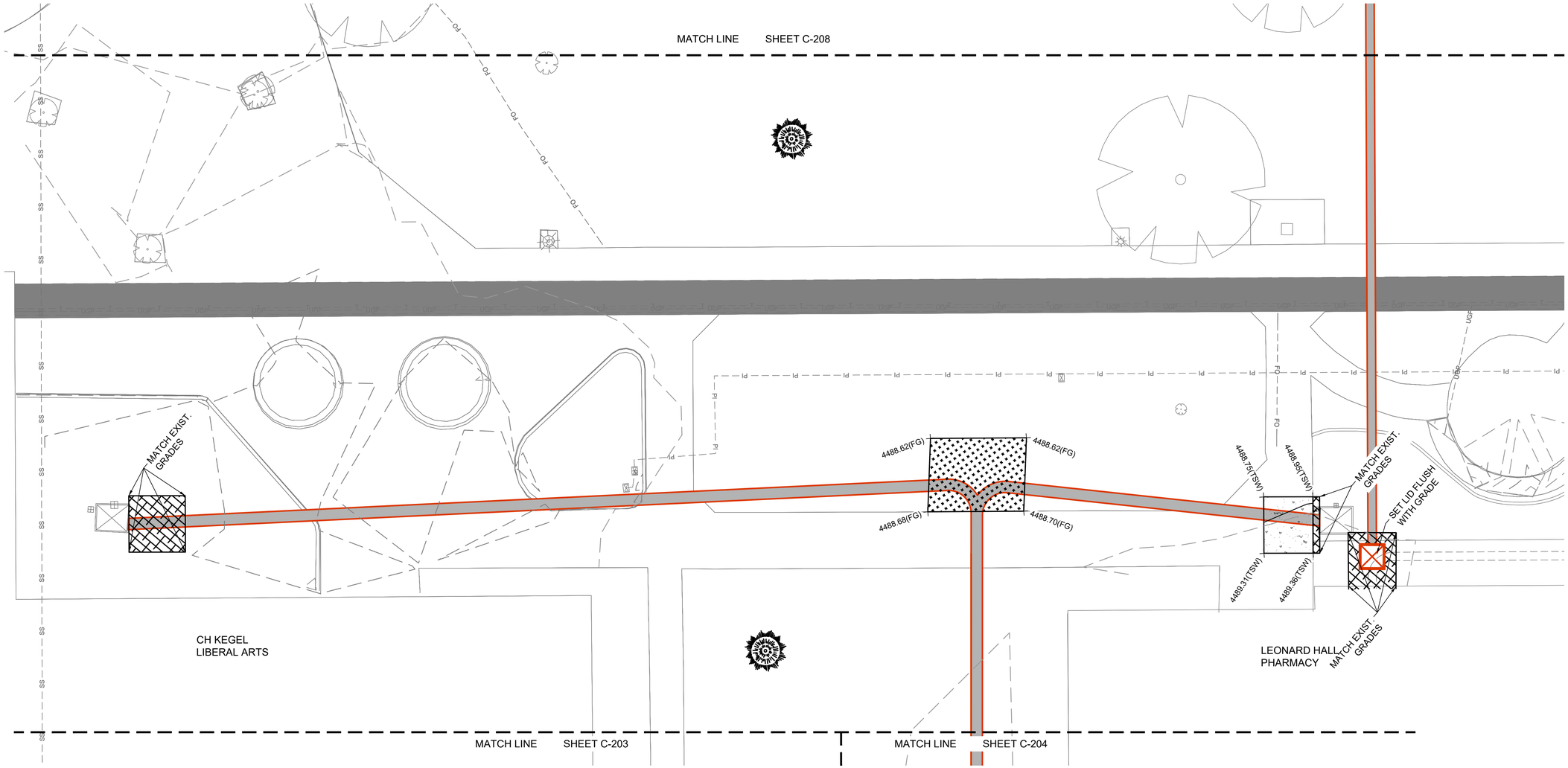
DRAWN: KJW | CHECK: MBH

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO.
208106-119

SHEET NO.
C-206

Docusign Envelope ID: 2CEA88BF-EBC6-4121-8A49-A146A0BA41CA



GRADING LEGEND

TBC	TOP BACK OF CURB
CON	TOP OF CONCRETE
TSW	TOP OF SIDEWALK
AC	TOP OF ASPHALT
TO LID	TOP OF TUNNEL LID
FG	FINISH GRADE

GRADING NOTES

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DPW PROJECT #24-246SC
ISU: REPAIR UTILITY TUNNEL, PHASE 3

IDAHO STATE UNIVERSITY

GRADING PLAN

DRAWN: KJW CHECK: MBH

VERIFY SCALE: Scales based on 22"x34" prints.

1-1/2 Inches

PROJECT NO.
208106-119

SHEET NO.
C-207

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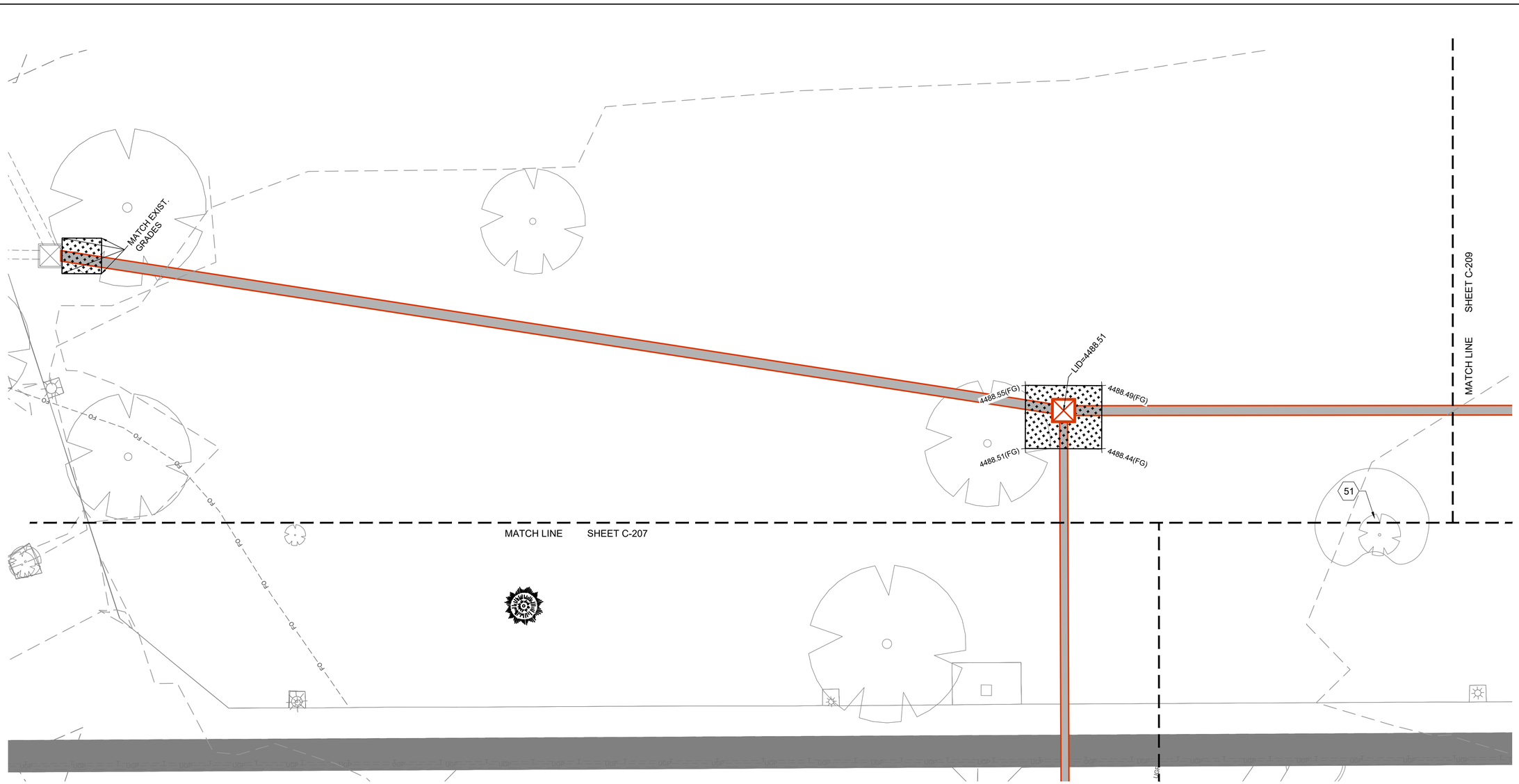

GRADING LEGEND

TBC	TOP BACK OF CURB
CON	TOP OF CONCRETE
TSW	TOP OF SIDEWALK
AC	TOP OF ASPHALT
TO LID	TOP OF TUNNEL LID
FG	FINISH GRADE

GRADING NOTES

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DPW PROJECT #24-246SC
ISU: REPAIR UTILITY TUNNEL, PHASE 3

IDAHO STATE UNIVERSITY

GRADING PLAN

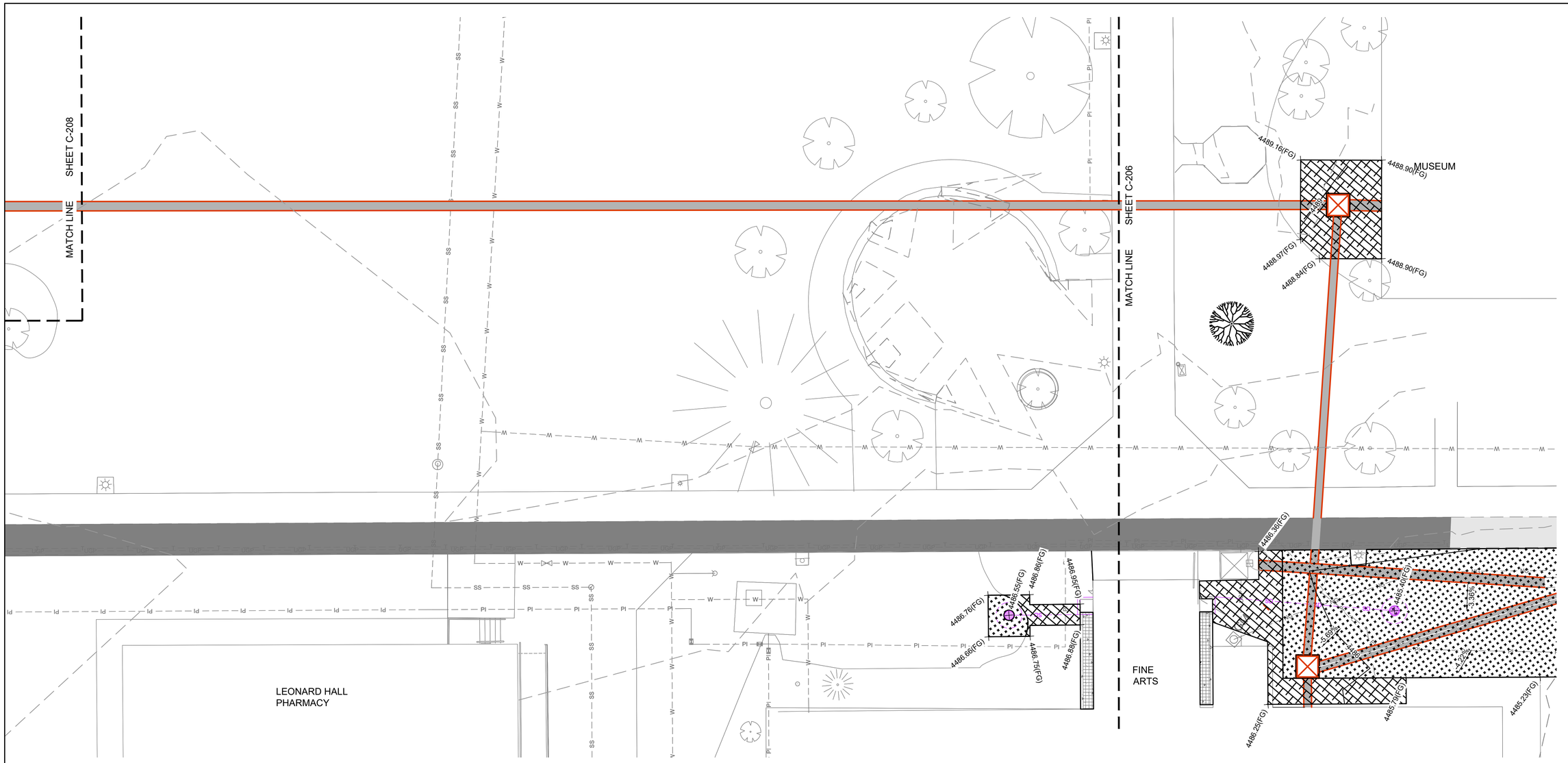
DRAWN: KJW | CHECK: MBH

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO.
208106-119

SHEET NO.
C-208

Docusign Envelope ID: 2CEA88BF-EBC6-4121-8A49-A146A0BA41CA



GRADING LEGEND

TBC	TOP BACK OF CURB
CON	TOP OF CONCRETE
TSW	TOP OF SIDEWALK
AC	TOP OF ASPHALT
TO LID	TOP OF TUNNEL LID
FG	FINISH GRADE

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DPW PROJECT #24-246SC
ISU: REPAIR UTILITY TUNNEL, PHASE 3

IDAHO STATE UNIVERSITY

GRADING PLAN

DRAWN: KJW | CHECK: MBH

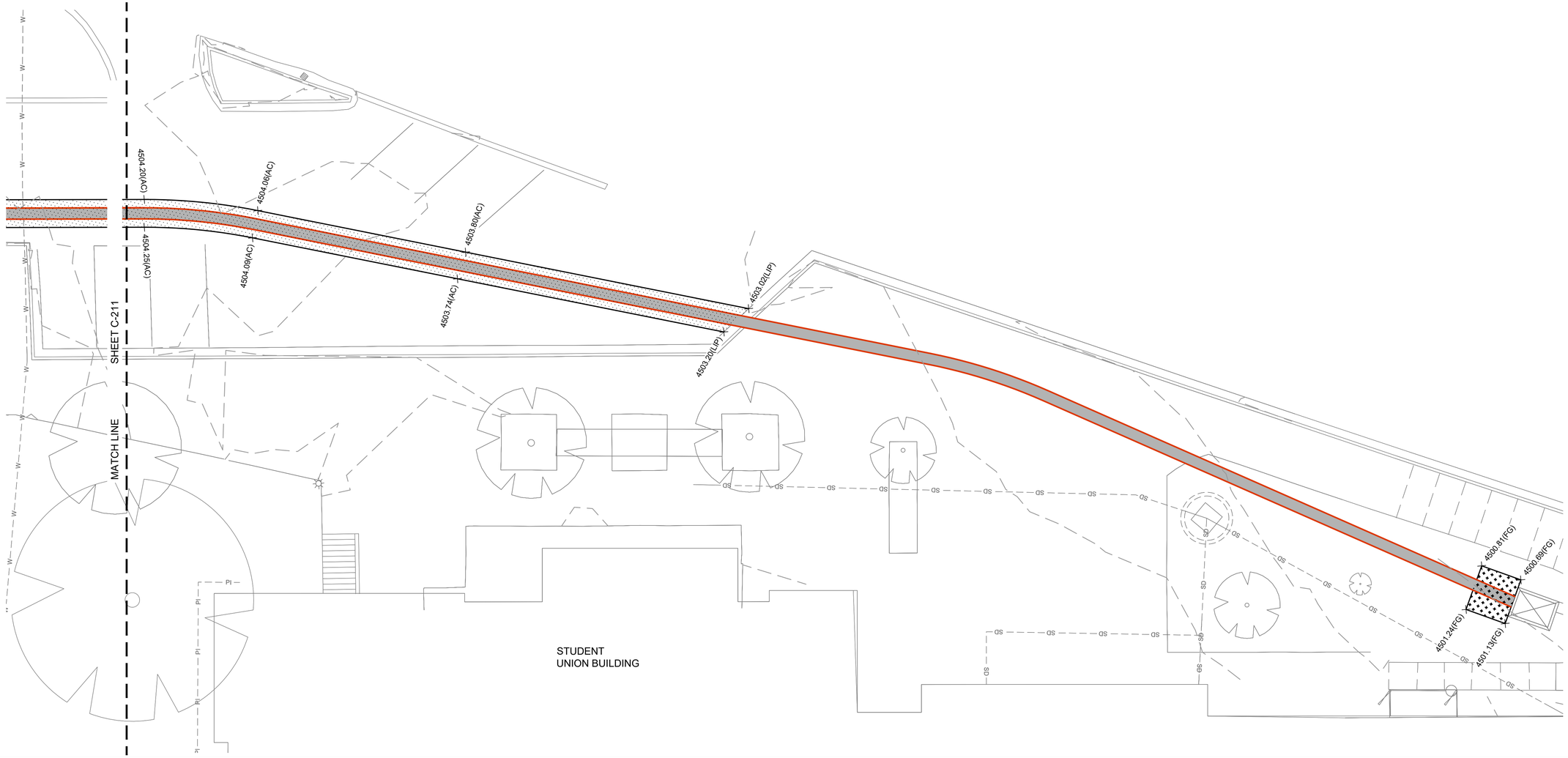
VERIFY SCALE: Scales based on 22"x34" prints.

1-1/2 Inches

PROJECT NO.
208106-119

SHEET NO.
C-209

Docusign Envelope ID: 2CEA88BF-EBC6-4121-8A49-A146A0BA41CA



GRADING LEGEND

TBC	TOP BACK OF CURB
CON	TOP OF CONCRETE
TSW	TOP OF SIDEWALK
AC	TOP OF ASPHALT
TO LID	TOP OF TUNNEL LID
FG	FINISH GRADE

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DPW PROJECT #24-246SCT #24-246SCT
ISU: REPAIR UTILITY TUNNEL
TUNNEL, PHASE 3

IDAHO STATE UNIVERSITY

GRADING PLAN

DRAWN: KJW | CHECK: MBH

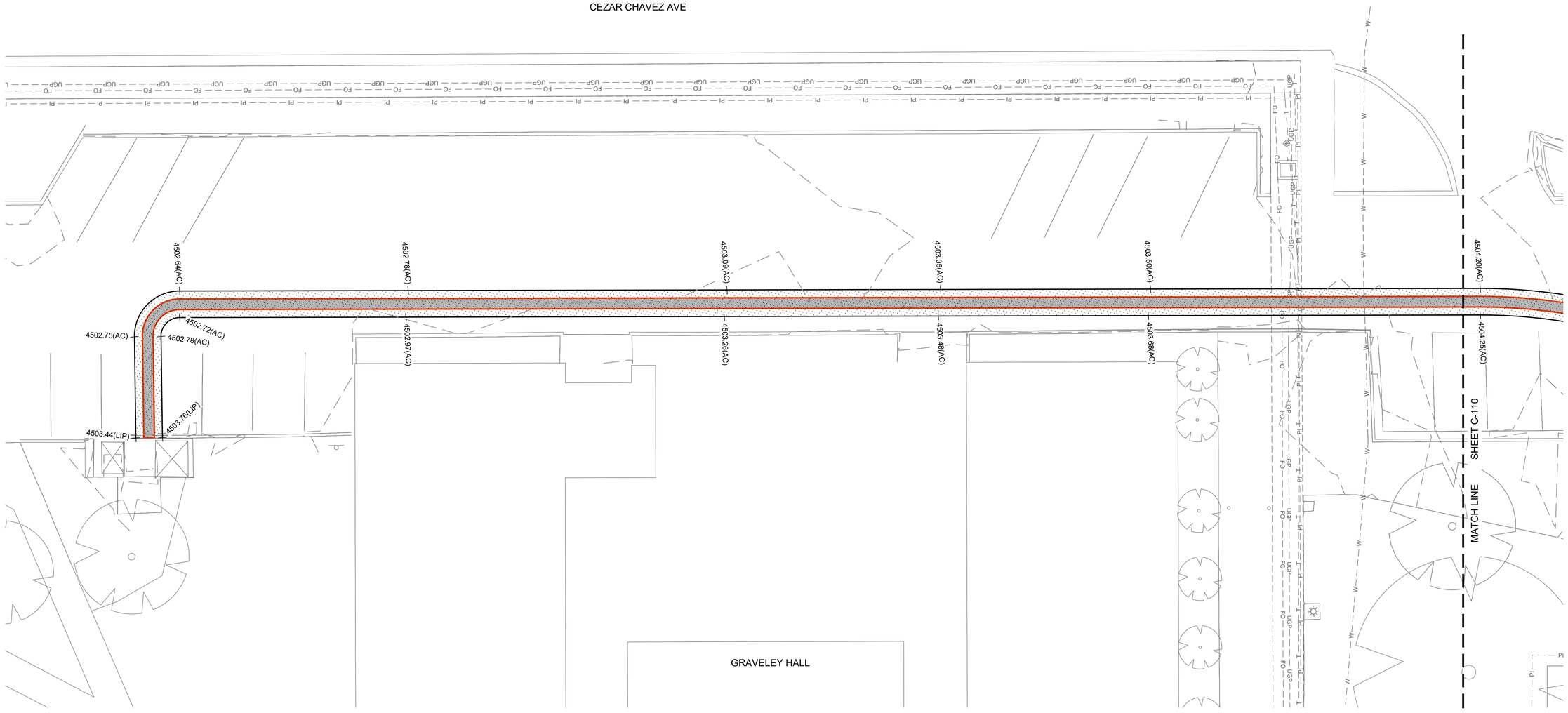
VERIFY SCALE: Scales based on 22"x34" prints.

1-1/2 Inches

PROJECT NO.
208106-119

SHEET NO.
C-210

Docusign Envelope ID: 2CEA88BF-EBC6-4121-8A49-A146A0BA41CA



GRADING LEGEND

TBC	TOP BACK OF CURB
CON	TOP OF CONCRETE
TSW	TOP OF SIDEWALK
AC	TOP OF ASPHALT
TO LID	TOP OF TUNNEL LID
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DPW PROJECT #24-246SC
ISU: REPAIR UTILITY TUNNEL, PHASE 3

IDAHO STATE UNIVERSITY

GRADING PLAN

DRAWN: KJW | CHECK: MBH

VERIFY SCALE: Scales based on 22"x34" prints.

1-1/2 Inches

PROJECT NO.
208106-119

SHEET NO.
C-211

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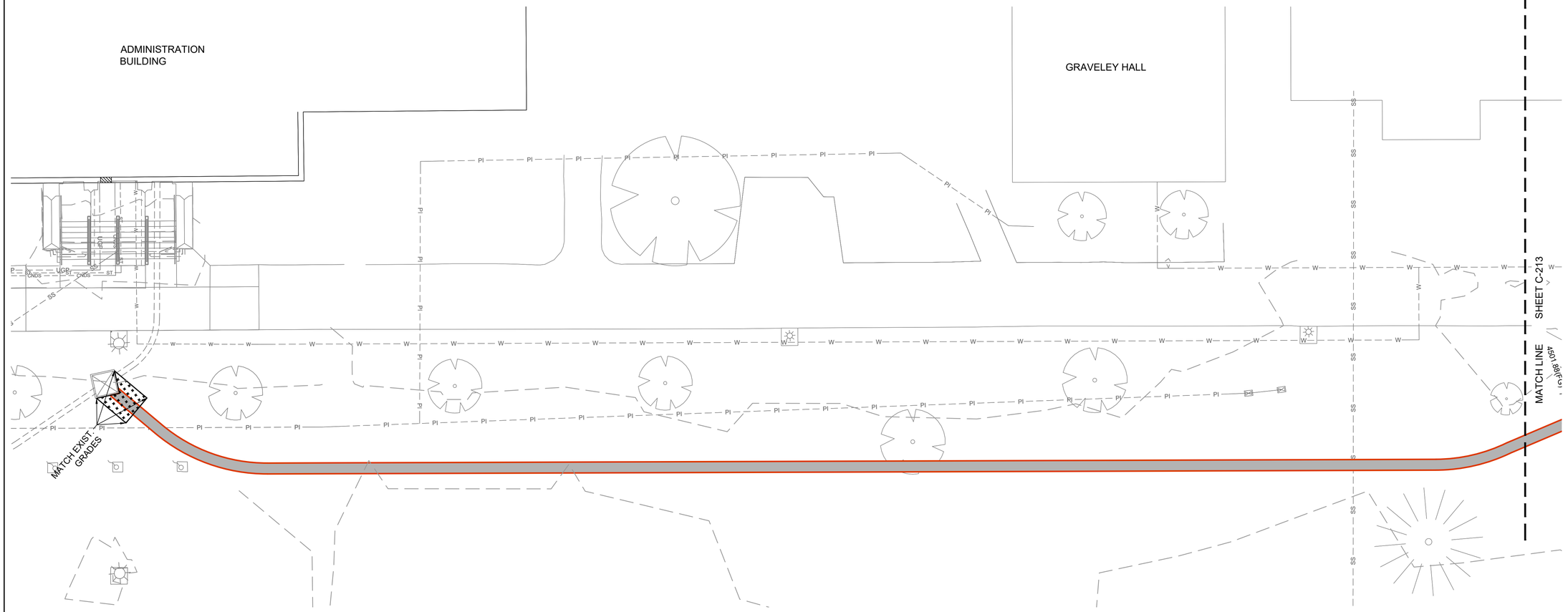

GRADING LEGEND

TBC	TOP BACK OF CURB
CON	TOP OF CONCRETE
TSW	TOP OF SIDEWALK
AC	TOP OF ASPHALT
TO LID	TOP OF TUNNEL LID
FG	FINISH GRADE

GRADING NOTES

1. FINISH GRADES ARE INTENDED TO BE MATCH EXISTING GRADES PRIOR TO CONSTRUCTION. IF GRADES ON PLANS DO NOT MATCH GRADES IN THE FIELD, CONTRACT THE ENGINEER OF RECORD.

HATCH LEGEND

- ASPHALT DEMO
- TUNNEL DEMO
- CURB DEMO
- GRAVEL DEMO
- SOD DEMO
- CONCRETE SIDEWALK DEMO
- MULCH DEMO
- ROCK MULCH DEMO

0 10 20

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305 North 3rd Ave, Suite A
Pocatello, Idaho 83201
(208) 238-2146

PROFESSIONAL ENGINEER
LICENSE
15381
8/27/2025
STATE OF IDAHO
MATTHEW B. HILL

NO.	REVISIONS	DATE

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DPW PROJECT #24-246SC
ISU: REPAIR UTILITY TUNNEL, PHASE 3

IDAHO STATE UNIVERSITY

GRADING PLAN

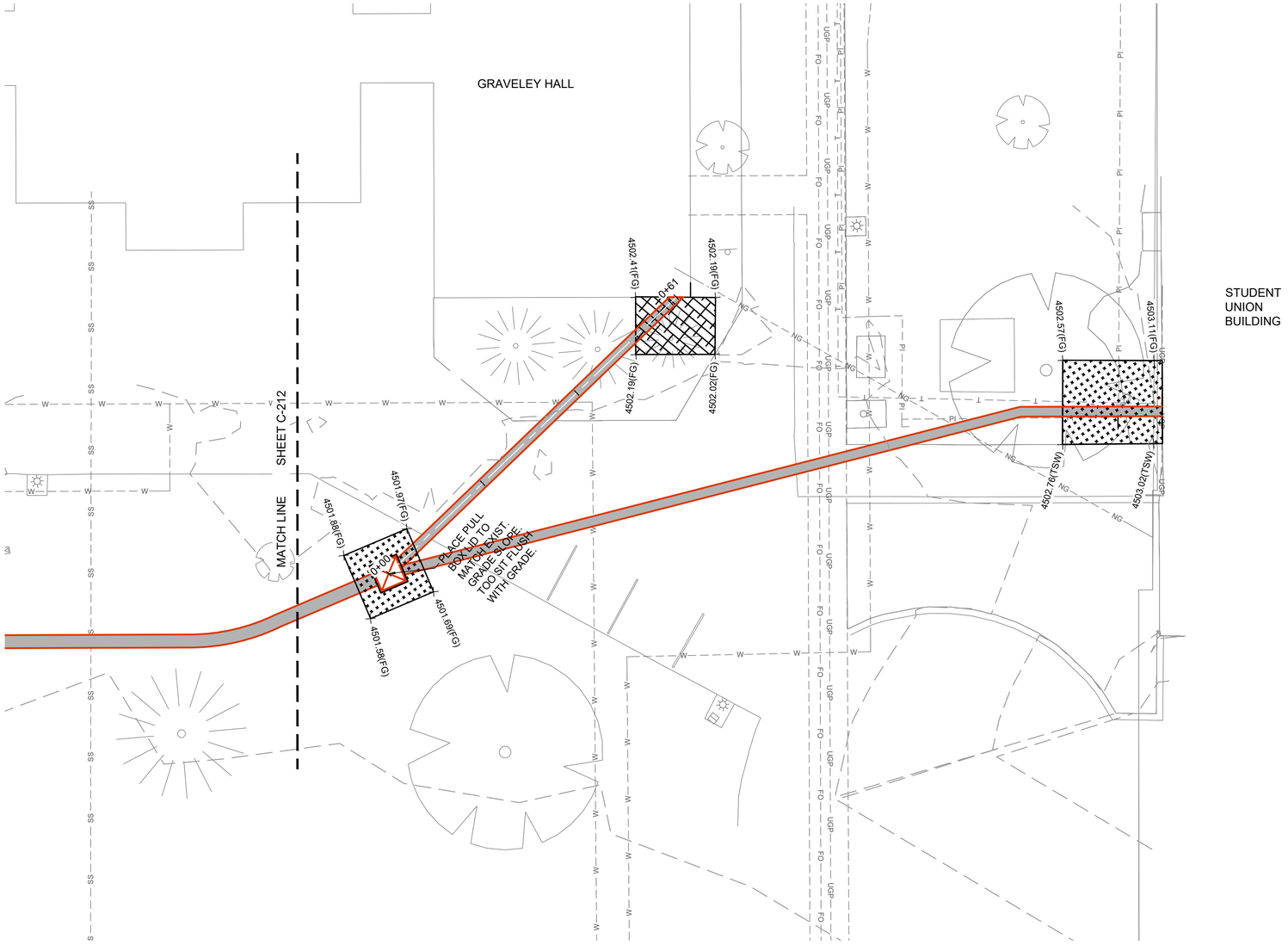
DRAWN: KJW | CHECK: MBH

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO.
208106-119

SHEET NO.
C-212

Docusign Envelope ID: 2CEA88BF-EBC6-4121-8A49-A146A0BA41CA



GRADING LEGEND

TBC	TOP BACK OF CURB
CON	TOP OF CONCRETE
TSW	TOP OF SIDEWALK
AC	TOP OF ASPHALT
TO LID	TOP OF TUNNEL LID
FG	FINISH GRADE

GRADING NOTES

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HATCH LEGEND

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- TUNNEL DEMO
- CURB DEMO
- GRAVEL DEMO
- SOD DEMO
- CONCRETE SIDEWALK DEMO
- MULCH DEMO
- ROCK MULCH DEMO

0 10 20

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DPW PROJECT #24-246SC
ISU: REPAIR UTILITY TUNNEL, PHASE 3

IDAHO STATE UNIVERSITY

GRADING PLAN

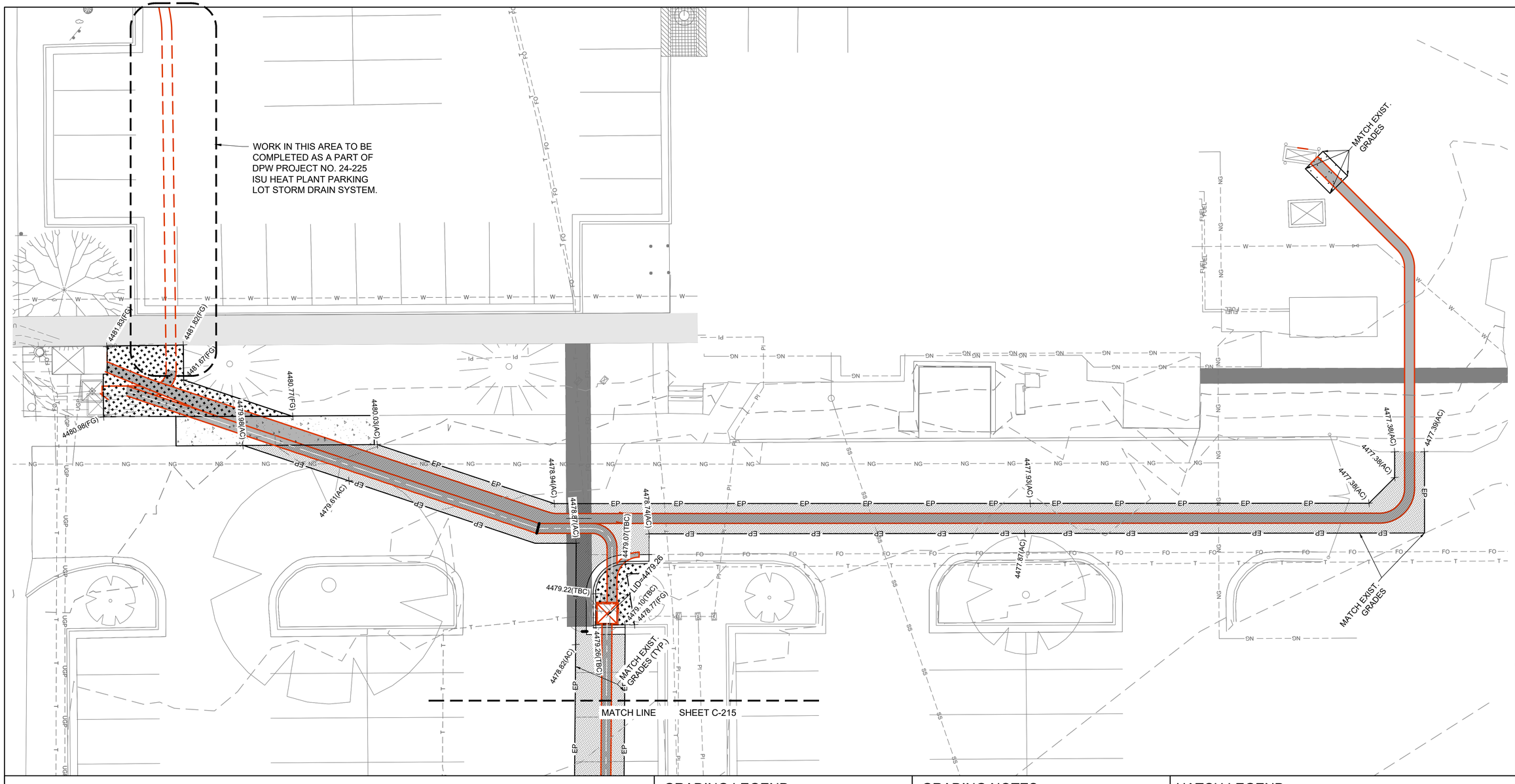
DRAWN: KJW | CHECK: MBH

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO.
208106-119

SHEET NO.
C-213

Docusign Envelope ID: 2CEA88BF-EBC6-4121-8A49-A146A0BA41CA



GRADING LEGEND

TBC	TOP BACK OF CURB
CON	TOP OF CONCRETE
TSW	TOP OF SIDEWALK
AC	TOP OF ASPHALT
TO LID	TOP OF TUNNEL LID
FG	FINISH GRADE

GRADING NOTES

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- GRAVEL DEMO
- SOD DEMO
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- MULCH DEMO
- ROCK MULCH DEMO

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DPW PROJECT #24-246SC
ISU; REPAIR UTILITY TUNNEL, PHASE 3

IDAHO STATE UNIVERSITY

GRADING PLAN

DRAWN: KJW | CHECK: MBH

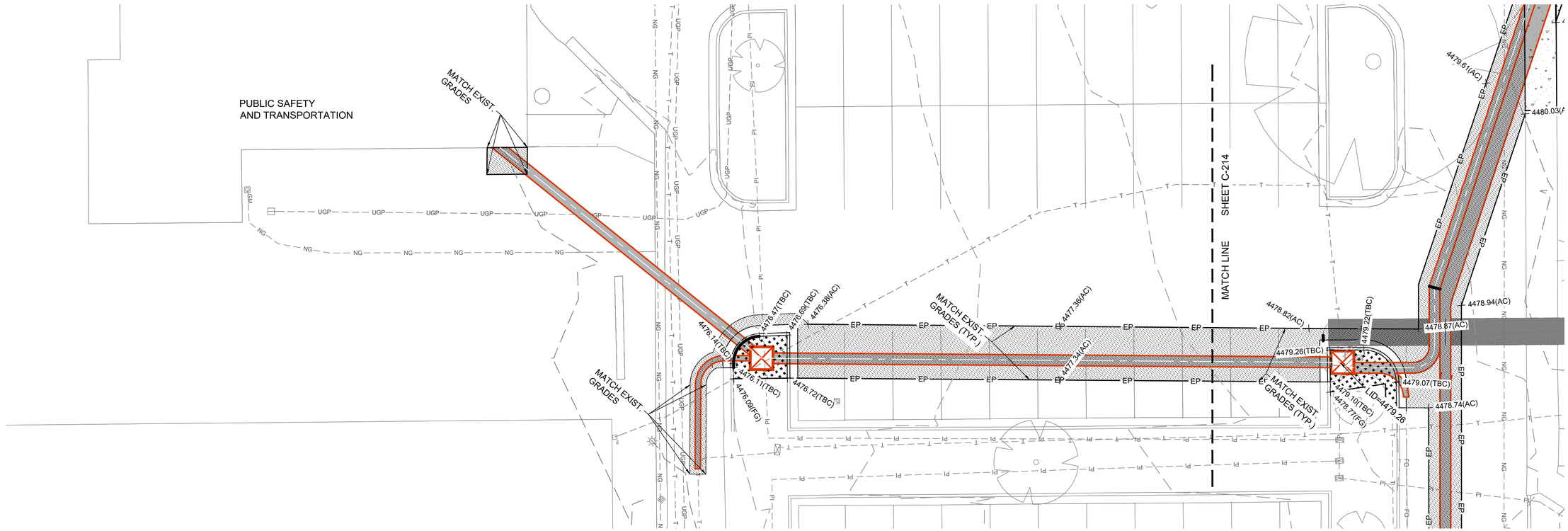
VERIFY SCALE: Scales based on 22"x34" prints.

1-1/2 Inches

PROJECT NO.
208106-119

SHEET NO.
C-214

Docusign Envelope ID: 2CEA88BF-EBC6-4121-8A49-A146A0BA41CA



GRADING LEGEND

TBC	TOP BACK OF CURB
CON	TOP OF CONCRETE
TSW	TOP OF SIDEWALK
AC	TOP OF ASPHALT
TO LID	TOP OF TUNNEL LID
FG	FINISH GRADE

GRADING NOTES

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- SOD DEMO
- CONCRETE SIDEWALK DEMO
- MULCH DEMO
- ROCK MULCH DEMO

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DPW PROJECT #24-246SC
ISU: REPAIR UTILITY TUNNEL, PHASE 3

IDAHO STATE UNIVERSITY

GRADING PLAN

DRAWN: KJW | CHECK: MBH

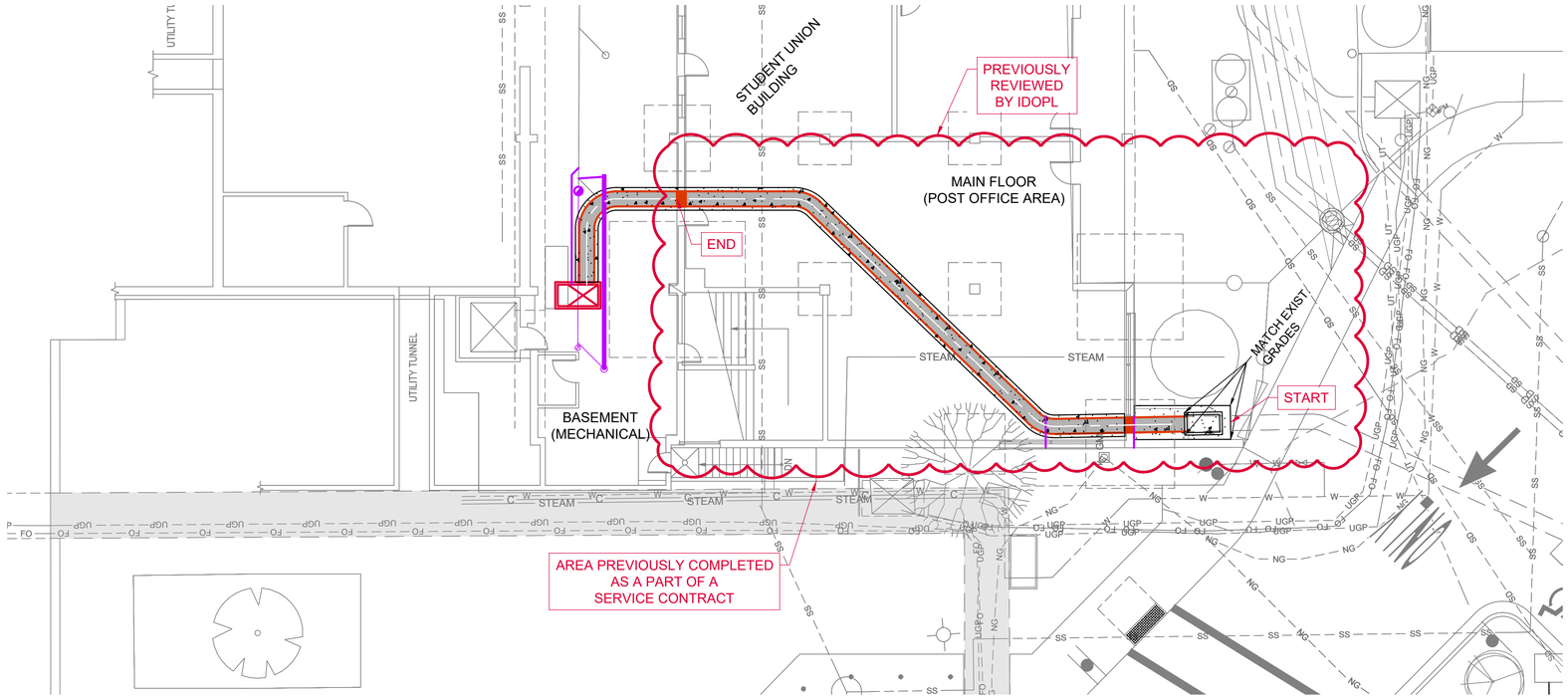
VERIFY SCALE: Scales based on 22"x34" prints.

1-1/2 Inches

PROJECT NO.
208106-119

SHEET NO.
C-215

Docusign Envelope ID: 2CEA88BF-EBC6-4121-8A49-A146A0BA41CA



GRADING LEGEND

TBC	TOP BACK OF CURB
CON	TOP OF CONCRETE
TSW	TOP OF SIDEWALK
AC	TOP OF ASPHALT
TO LID	TOP OF TUNNEL LID
FG	FINISH GRADE

GRADING NOTES

1. FINISH GRADES ARE INTENDED TO BE MATCH EXISTING GRADES PRIOR TO CONSTRUCTION. IF GRADES ON PLANS DO NOT MATCH GRADES IN THE FIELD, CONTRACT THE ENGINEER OF RECORD.

HATCH LEGEND

- ASPHALT DEMO
- TUNNEL DEMO
- CURB DEMO
- GRAVEL DEMO
- SOD DEMO
- CONCRETE SIDEWALK DEMO
- MULCH DEMO
- ROCK MULCH DEMO

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DPW PROJECT #24-246SC
ISU: REPAIR UTILITY TUNNEL, PHASE 3

IDAHO STATE UNIVERSITY

GRADING PLAN

DRAWN: KJW | CHECK: MBH

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO.
208106-119

SHEET NO.
C-216

Docusign Envelope ID: 2CEA88BF-EBC6-4121-8A49-A146A0BA41CA

PRINTED: 8/26/2025 9:43 AM
LAST SAVED: 8/26/2025 9:47 AM
J:\208106-119 ISU REPLACE UTILITY TUNNEL, PHASE 3\C_DESN_CAD\3_DESIGN\D_PLANS-1\C-301.DWG

MARTIN LUTHER KING JR. WAY

CEZAR CHAVEZ AVE

LILLIBRIDGE ENGINEERING

PHYSICAL SCIENCE COMPLEX

ADMINISTRATION BUILDING

STUDENT UNION BUILDING

MUSEUM

FACILITIES SERVCIES

HEAT PLANT

FRAZIER HALL

BUSINESS ADMINISTRATION

CH KEGEL LIBERAL ARTS

LEONARD HALL PHARMACY

FINE ARTS

PUBLIC SAFETY & TRANSPORTATION

HUMBOLT ST.

S 5TH AVE

C-301 C-302 C-303 C-304 C-305 C-306 C-307 C-308 C-309 C-310 C-311 C-312 C-313 C-314 C-315 C-316 C-317 C-318 C-319 C-320

PREVIOUSLY REVIEWED BY IDOPL

AREA PREVIOUSLLY COMPLETED AS A PART OF A SERVICE CONTRACT

0 50 100

PLAN WINDOW ON PLAN OR PLAN & PROFILE SHEET

C-201

INDICATES LOWER RIGHT HAND CORNER OF THE SHEET

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DPW PROJECT #24-246SC
ISU: REPAIR UTILITY TUNNEL, PHASE 3

IDAHO STATE UNIVERSITY

OVERALL UTILITY & PROFILE PLAN

DRAWN: KJW | CHECK: MBH

VERIFY SCALE: Scales based on 22"x34" prints.

1-1/2 Inches

PROJECT NO.
208106-119

SHEET NO.
C-300

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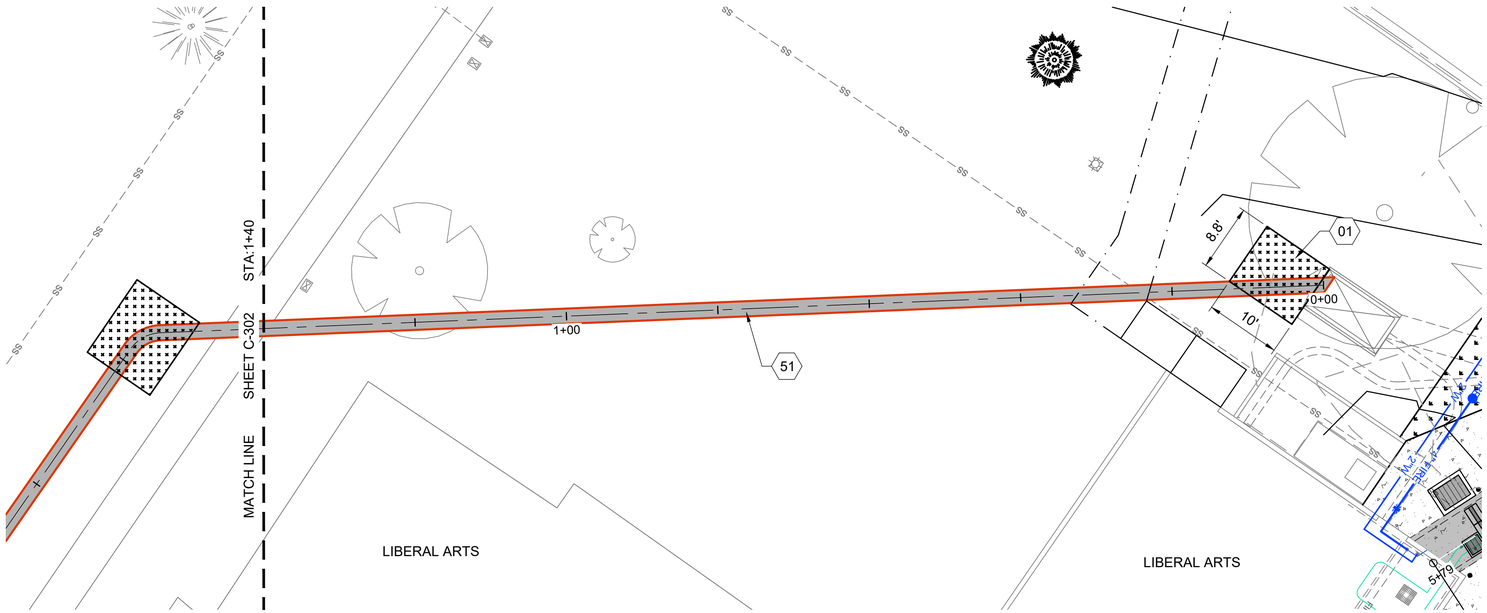

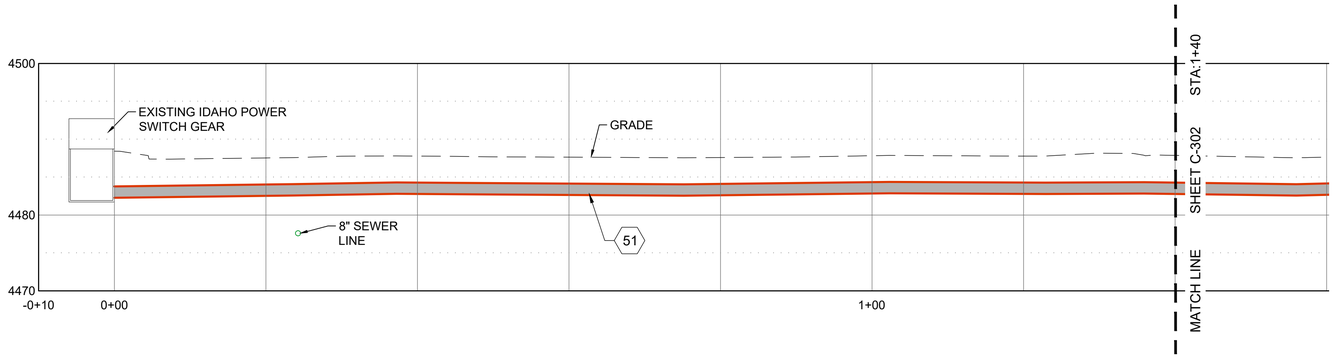

SHEET KEYNOTES

01 LANDSCAPING, (SOD), REPAIR IRRIGATION AS REQUIRED FOR CONSTRUCTION. REPLACE IN KIND OR BETTER, RE: A3/C-501 & IRRIGATION NOTES SHEET G-002

51 CONDUIT, (HIGH VOLTAGE POWER) (BORE) RE: ELECTRICAL PLANS

HATCH LEGEND

- ASPHALT
- NEW TUNNEL
- SOD
- CONCRETE
- MULCH

SITE NOTES

1. COORDINATE WITH ELECTRICAL PLANS AND DETAILS FOR POWER AND COMMUNICATIONS CONDUIT BANK.
2. SEE SHEETS C-100 THROUGH C-103 FOR SITE AND TUNNEL PLANS.
3. IRRIGATION SYSTEM COMPONENTS SUCH AS VALVES, BOXES, HEADS, PIPING, WIRING, ETC. THAT ARE REMOVED OR DAMAGED DUE TO CONSTRUCTION ACTIVITIES ARE TO BE REPLACED WITH IN KIND OR BETTER MATERIALS.

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DPW PROJECT #24-246SC
ISU: REPAIR UTILITY TUNNEL, PHASE 3

IDAHO STATE UNIVERSITY

UTILITY & PROFILE PLAN

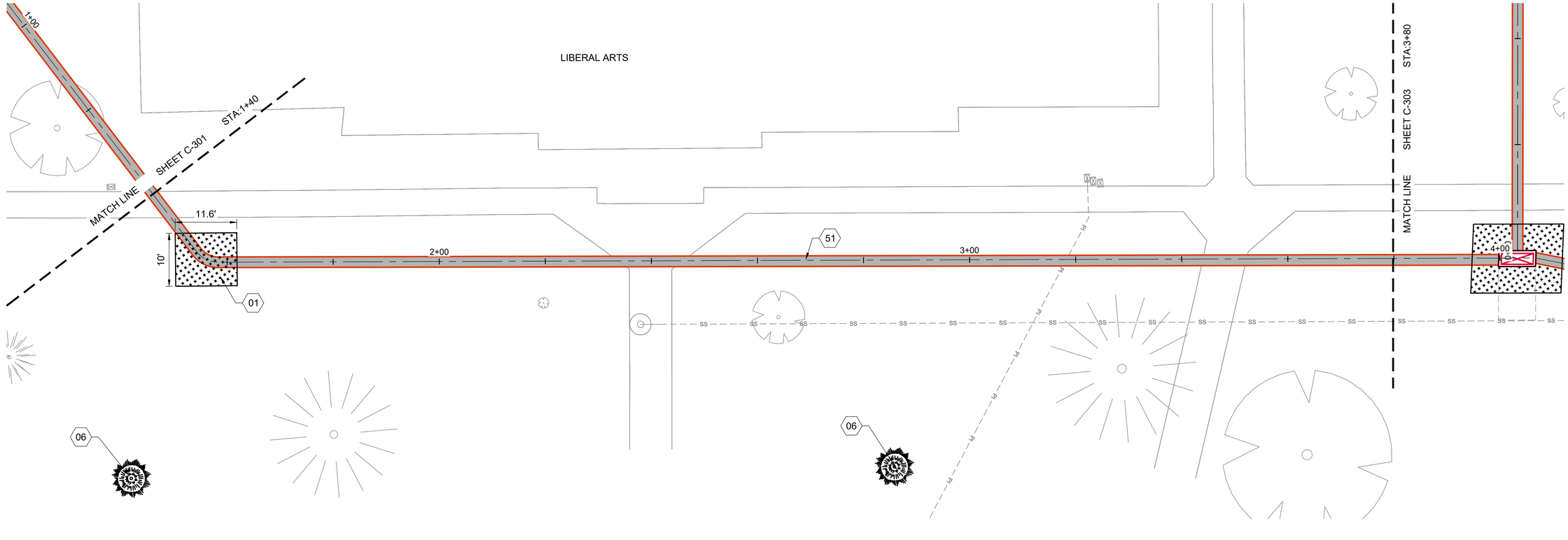
DRAWN: KJW | CHECK: MBH

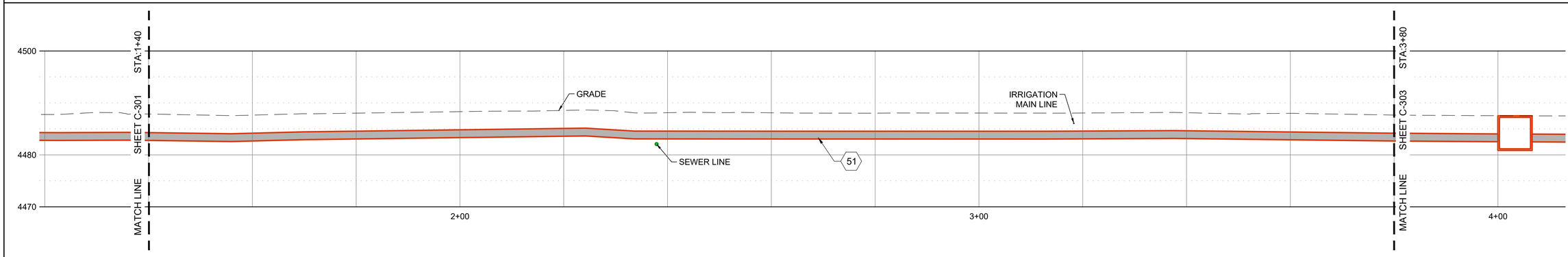
VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO.
208106-119

SHEET NO.
C-301

Docusign Envelope ID: 2CEA88BF-EBC6-4121-8A49-A146A0BA41CA





SHEET KEYNOTES

01	LANDSCAPING, (SOD), REPAIR IRRIGATION AS REQUIRED FOR CONSTRUCTION. REPLACE IN KIND OR BETTER, RE: A3/C-501 & IRRIGATION NOTES SHEET G-002
06	INSTALL NEW TREE, (COLORADO BLUE SPRUCE, PICEA PUNGENS) 12-14' TALL, RE: C4/C-501
51	CONDUIT, (HIGH VOLTAGE POWER) (BORE) RE: ELECTRICAL PLANS

HATCH LEGEND

- ASPHALT
- NEW TUNNEL
- SOD
- CONCRETE
- MULCH

SITE NOTES

1. COORDINATE WITH ELECTRICAL PLANS AND DETAILS FOR POWER AND COMMUNICATIONS CONDUIT BANK.
2. SEE SHEETS C-100 THROUGH C-103 FOR SITE AND TUNNEL PLANS.
3. IRRIGATION SYSTEM COMPONENTS SUCH AS VALVES, BOXES, HEADS, PIPING, WIRING, ETC. THAT ARE REMOVED OR DAMAGED DUE TO CONSTRUCTION ACTIVITIES ARE TO BE REPLACED WITH IN KIND OR BETTER MATERIALS.

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DPW PROJECT #24-246SC
ISU: REPAIR UTILITY TUNNEL, PHASE 3

IDAHO STATE UNIVERSITY

UTILITY & PROFILE PLAN

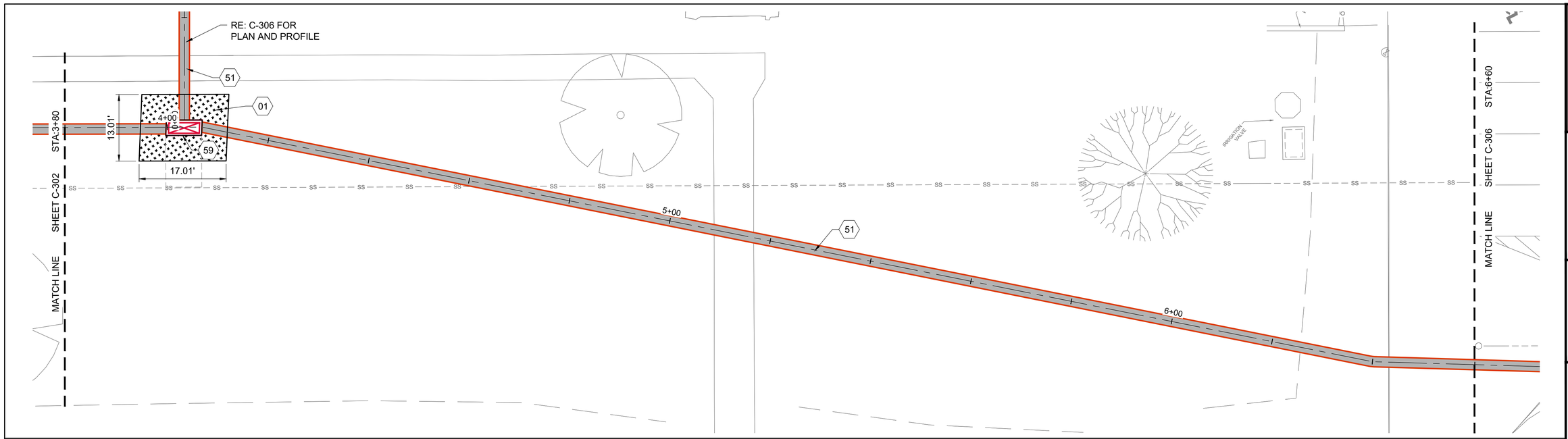
DRAWN: KJW | CHECK: MBH

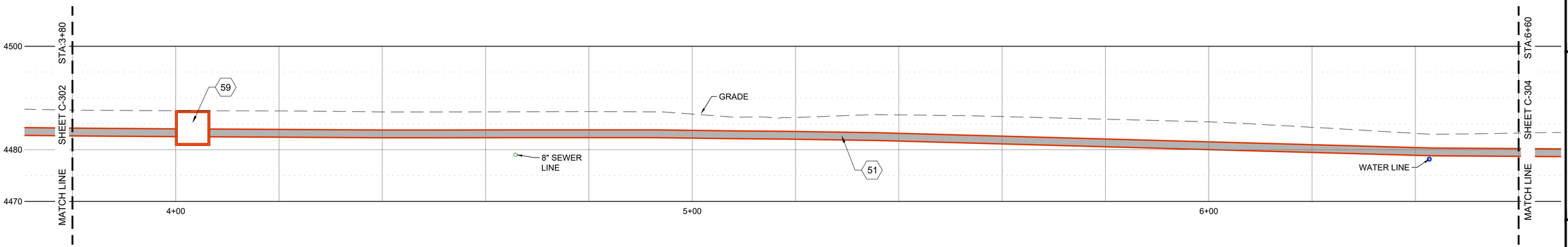
VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO.
208106-119

SHEET NO.
C-302

Docusign Envelope ID: 2CEA88BF-EBC6-4121-8A49-A146A0BA41CA





SHEET KEYNOTES

01	LANDSCAPING, (SOD), REPAIR IRRIGATION AS REQUIRED FOR CONSTRUCTION. REPLACE IN KIND OR BETTER, RE: A3/C-501 & IRRIGATION NOTES SHEET G-002
51	CONDUIT, (HIGH VOLTAGE POWER) (BORE) RE: ELECTRICAL PLANS
59	ELECTRICAL SECTIONALIZER, RE: ELECTRICAL PLANS

HATCH LEGEND

- ASPHALT
- NEW TUNNEL
- SOD
- CONCRETE
- MULCH

SITE NOTES

1. COORDINATE WITH ELECTRICAL PLANS AND DETAILS FOR POWER AND COMMUNICATIONS CONDUIT BANK.
2. SEE SHEETS C-100 THROUGH C-103 FOR SITE AND TUNNEL PLANS.
3. IRRIGATION SYSTEM COMPONENTS SUCH AS VALVES, BOXES, HEADS, PIPING, WIRING, ETC. THAT ARE REMOVED OR DAMAGED DUE TO CONSTRUCTION ACTIVITIES ARE TO BE REPLACED WITH IN KIND OR BETTER MATERIALS.

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DPW PROJECT #24-246SC
ISU: REPAIR UTILITY TUNNEL, PHASE 3

IDAHO STATE UNIVERSITY

UTILITY & PROFILE PLAN

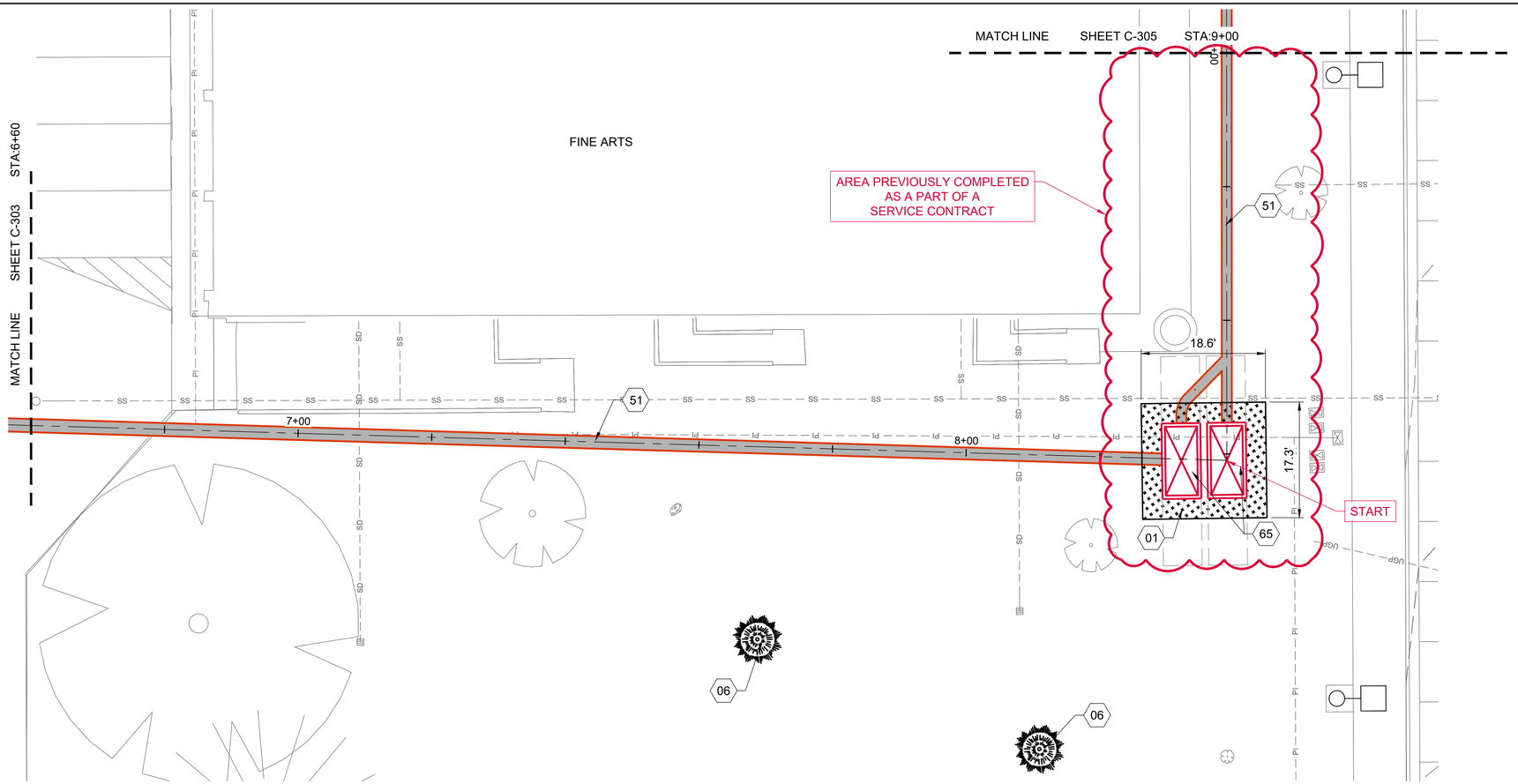
DRAWN: KJW | CHECK: MBH

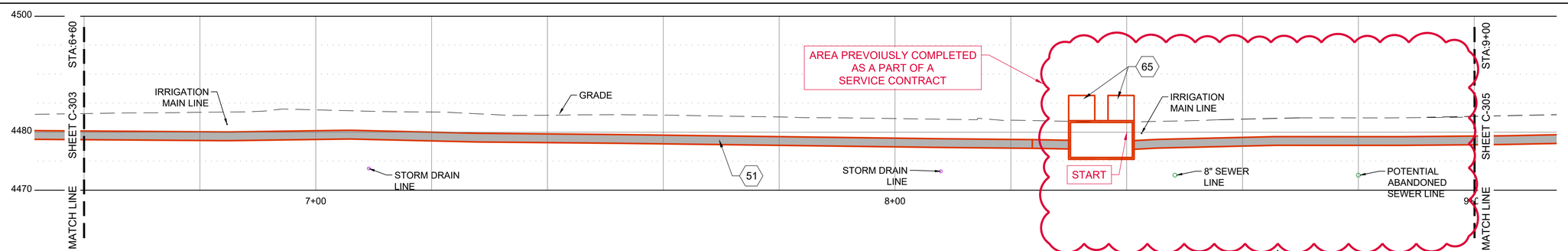
VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO.
208106-119

SHEET NO.
C-303

Docusign Envelope ID: 2CEA88BF-EBC6-4121-8A49-A146A0BA41CA





SHEET KEYNOTES

01	LANDSCAPING, (SOD), REPAIR IRRIGATION AS REQUIRED FOR CONSTRUCTION. REPLACE IN KIND OR BETTER, RE: A3/C-501 & IRRIGATION NOTES SHEET G-002
06	INSTALL NEW TREE, (COLORADO BLUE SPRUCE, PICEA PUNGENS) 12-14' TALL, RE: C4/C-501
51	CONDUIT, (HIGH VOLTAGE POWER) (BORE) RE: ELECTRICAL PLANS
65	ELECTRICAL SECTIONALIZER, RE: ELECTRICAL PLANS

HATCH LEGEND

- ASPHALT
- NEW TUNNEL
- SOD
- CONCRETE
- MULCH

SITE NOTES

1. COORDINATE WITH ELECTRICAL PLANS AND DETAILS FOR POWER AND COMMUNICATIONS CONDUIT BANK.
2. SEE SHEETS C-100 THROUGH C-103 FOR SITE AND TUNNEL PLANS.
3. IRRIGATION SYSTEM COMPONENTS SUCH AS VALVES, BOXES, HEADS, PIPING, WIRING, ETC. THAT ARE REMOVED OR DAMAGED DUE TO CONSTRUCTION ACTIVITIES ARE TO BE REPLACED WITH IN KIND OR BETTER MATERIALS.

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DPW PROJECT #24-246SC
ISU: REPAIR UTILITY TUNNEL, PHASE 3

IDAHO STATE UNIVERSITY

UTILITY & PROFILE PLAN

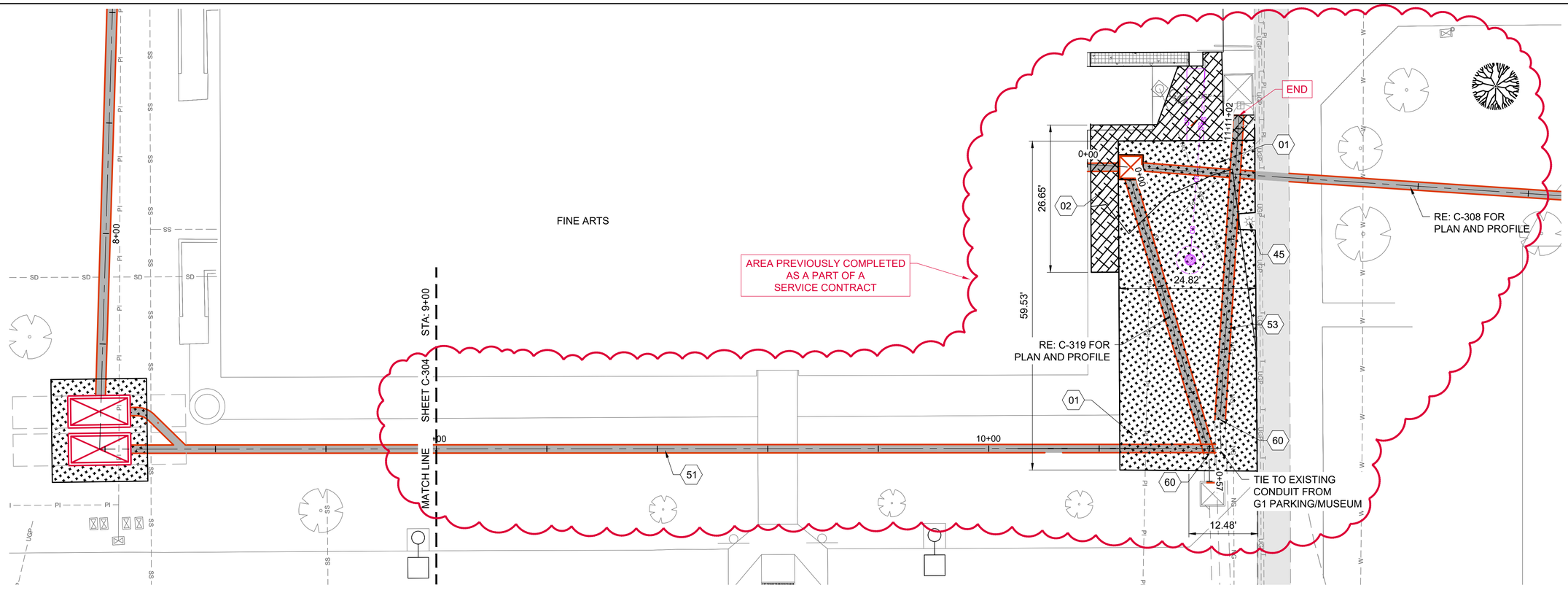
DRAWN: KJW | CHECK: MBH

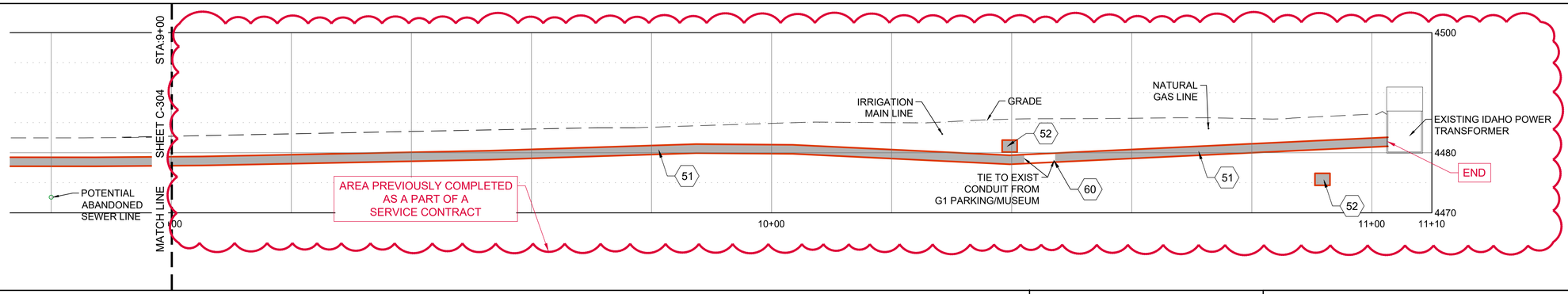
VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO.
208106-119

SHEET NO.
C-304

Docusign Envelope ID: 2CEA88BF-EBC6-4121-8A49-A146A0BA41CA





SHEET KEYNOTES

01	LANDSCAPING, (SOD), REPAIR IRRIGATION AS REQUIRED FOR CONSTRUCTION. REPLACE IN KIND OR BETTER, RE: A3/C-501 & IRRIGATION NOTES SHEET G-002
02	LANDSCAPING, (MULCH), REPAIR IRRIGATION AS REQUIRED FOR CONSTRUCTION. REPLACE IN KIND OR BETTER, RE: A3/C-501 & IRRIGATION NOTES SHEET G-002
45	RE-INSTALL LIGHT POLE, RE: A4/C-510
51	CONDUIT, (HIGH VOLTAGE POWER) (BORE) RE: ELECTRICAL PLANS
52	CONDUIT,(COMMUNICATIONS) (TRENCH), RE: ELECTRICAL PLANS
53	CONDUIT, (HIGH VOLTAGE POWER) (TRENCH) RE: ELECTRICAL PLANS
60	CONNECT NEW CONDUIT BANK TO EXISTING CONDUIT BANK

HATCH LEGEND

- ASPHALT
- NEW TUNNEL
- SOD
- CONCRETE
- MULCH

SITE NOTES

1. COORDINATE WITH ELECTRICAL PLANS AND DETAILS FOR POWER AND COMMUNICATIONS CONDUIT BANK.
2. SEE SHEETS C-100 THROUGH C-103 FOR SITE AND TUNNEL PLANS.
3. IRRIGATION SYSTEM COMPONENTS SUCH AS VALVES, BOXES, HEADS, PIPING, WIRING, ETC. THAT ARE REMOVED OR DAMAGED DUE TO CONSTRUCTION ACTIVITIES ARE TO BE REPLACED WITH IN KIND OR BETTER MATERIALS.

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DPW PROJECT #24-246SC
ISU: REPAIR UTILITY TUNNEL, PHASE 3

IDAHO STATE UNIVERSITY

UTILITY & PROFILE PLAN

DRAWN: KJW | CHECK: MBH

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO.
208106-119

SHEET NO.
C-305

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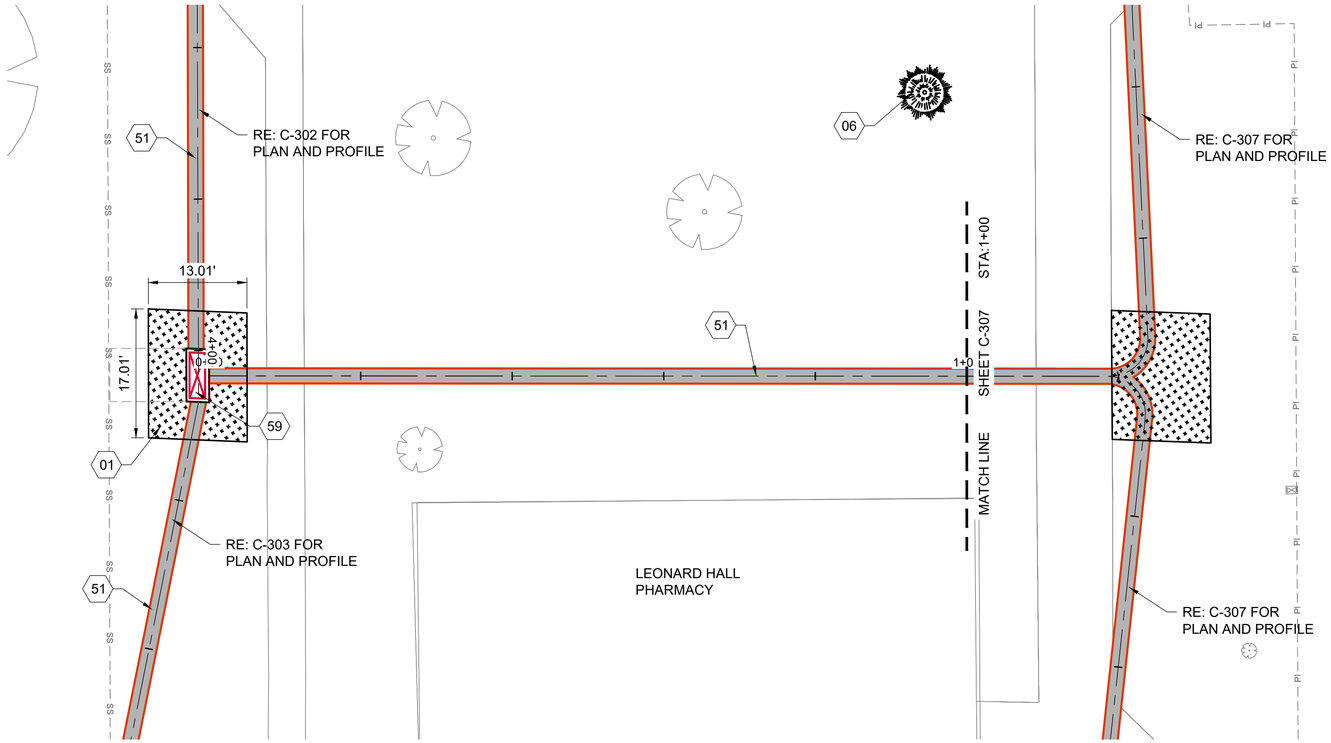

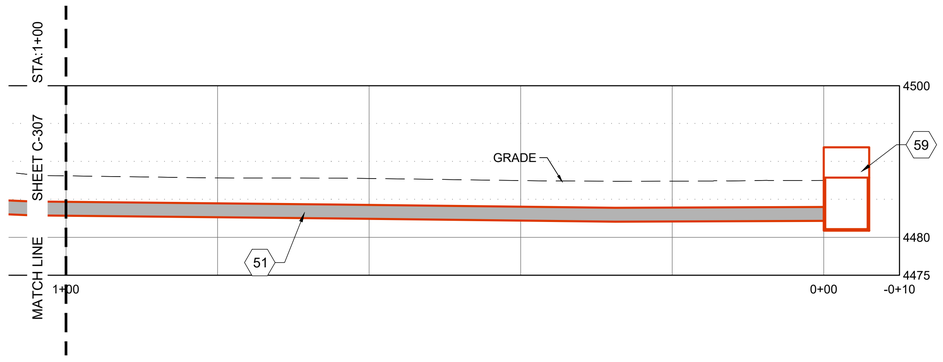

SHEET KEYNOTES

01	LANDSCAPING, (SOD), REPAIR IRRIGATION AS REQUIRED FOR CONSTRUCTION. REPLACE IN KIND OR BETTER, RE: A3/C-501 & IRRIGATION NOTES SHEET G-002
06	INSTALL NEW TREE, (COLORADO BLUE SPRUCE, PICEA PUNGENS) 12-14' TALL, RE: C4/C-501
51	CONDUIT, (HIGH VOLTAGE POWER) (BORE) RE: ELECTRICAL PLANS
59	ELECTRICAL SECTIONALIZER, RE: ELECTRICAL PLANS

HATCH LEGEND

- ASPHALT
- NEW TUNNEL
- SOD
- CONCRETE
- MULCH

SITE NOTES

1. COORDINATE WITH ELECTRICAL PLANS AND DETAILS FOR POWER AND COMMUNICATIONS CONDUIT BANK.
2. SEE SHEETS C-100 THROUGH C-103 FOR SITE AND TUNNEL PLANS.
3. IRRIGATION SYSTEM COMPONENTS SUCH AS VALVES, BOXES, HEADS, PIPING, WIRING, ETC. THAT ARE REMOVED OR DAMAGED DUE TO CONSTRUCTION ACTIVITIES ARE TO BE REPLACED WITH IN KIND OR BETTER MATERIALS.

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PROFESSIONAL ENGINEER
15381
8/27/2025
STATE OF IDAHO
MATTHEW B. HILL

NO.	REVISIONS	DATE

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DPW PROJECT #24-246SC
ISU: REPAIR UTILITY TUNNEL, PHASE 3

IDAHO STATE UNIVERSITY

UTILITY & PROFILE PLAN

DRAWN: KJW | CHECK: MBH

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO.
208106-119

SHEET NO.
C-306

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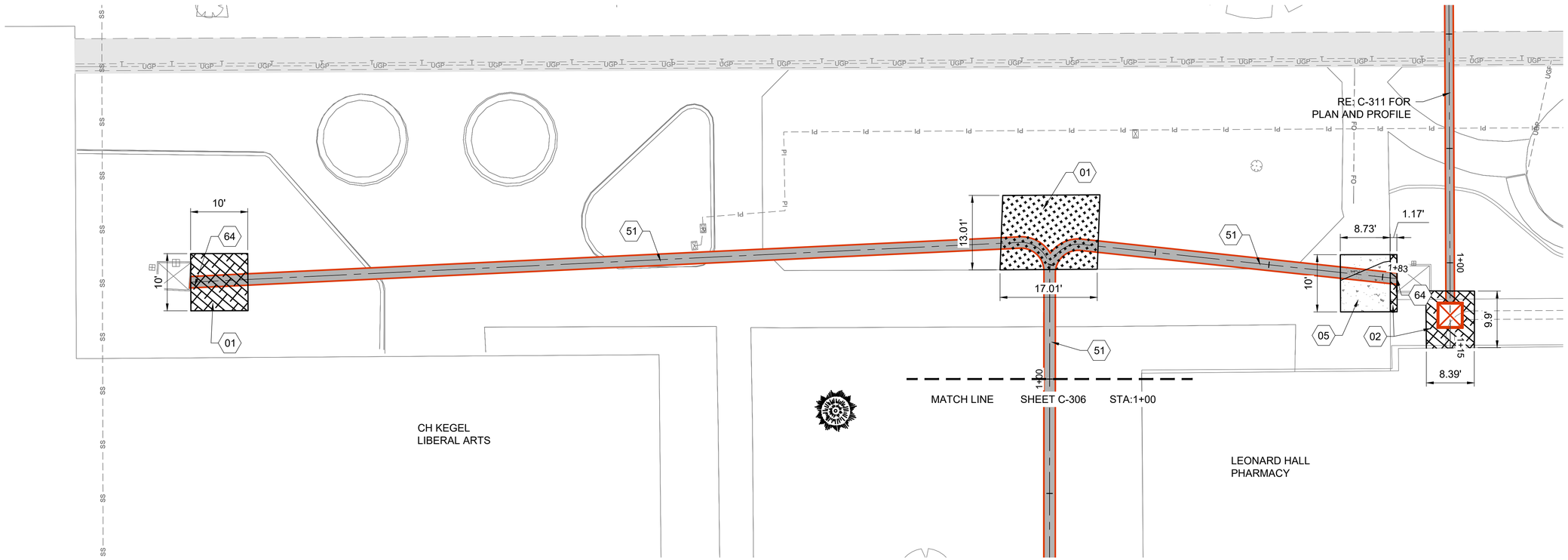

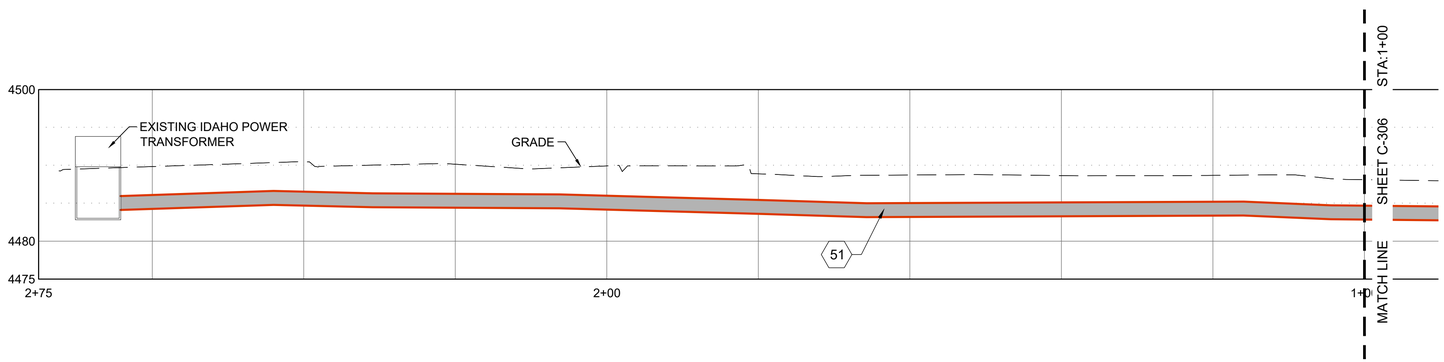

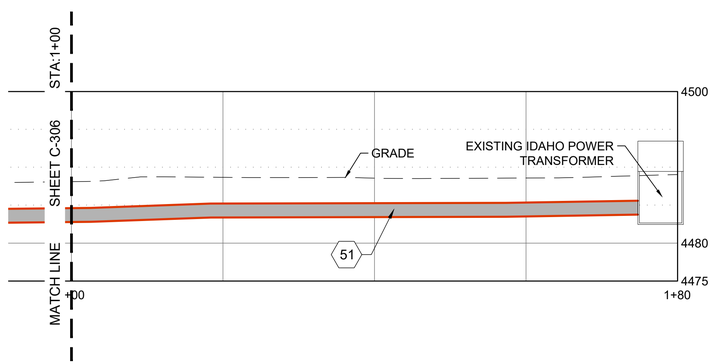

SHEET KEYNOTES

01	LANDSCAPING, (SOD), REPAIR IRRIGATION AS REQUIRED FOR CONSTRUCTION. REPLACE IN KIND OR BETTER, RE: A3/C-501 & IRRIGATION NOTES SHEET G-002
02	LANDSCAPING, (MULCH), REPAIR IRRIGATION AS REQUIRED FOR CONSTRUCTION. REPLACE IN KIND OR BETTER, RE: A3/C-501 & IRRIGATION NOTES SHEET G-002
05	SIDEWALK, RE: A1/C-501
51	CONDUIT, (HIGH VOLTAGE POWER) (BORE) RE: ELECTRICAL PLANS
54	CONDUIT,(COMMUNICATIONS) (BORE), RE: ELECTRICAL PLANS
64	POWER CONDUIT CONNECTION TO TRANSFORMERS, RE: ELECTRICAL PLANS

HATCH LEGEND

- ASPHALT
- NEW TUNNEL
- SOD
- CONCRETE
- MULCH

SITE NOTES

1. COORDINATE WITH ELECTRICAL PLANS AND DETAILS FOR POWER AND COMMUNICATIONS CONDUIT BANK.
2. SEE SHEETS C-100 THROUGH C-103 FOR SITE AND TUNNEL PLANS.
3. IRRIGATION SYSTEM COMPONENTS SUCH AS VALVES, BOXES, HEADS, PIPING, WIRING, ETC. THAT ARE REMOVED OR DAMAGED DUE TO CONSTRUCTION ACTIVITIES ARE TO BE REPLACED WITH IN KIND OR BETTER MATERIALS.

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DPW PROJECT #24-246SC
ISU: REPAIR UTILITY TUNNEL, PHASE 3

IDAHO STATE UNIVERSITY

UTILITY & PROFILE PLAN

DRAWN: KJW | CHECK: MBH

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO.
208106-119

SHEET NO.
C-307

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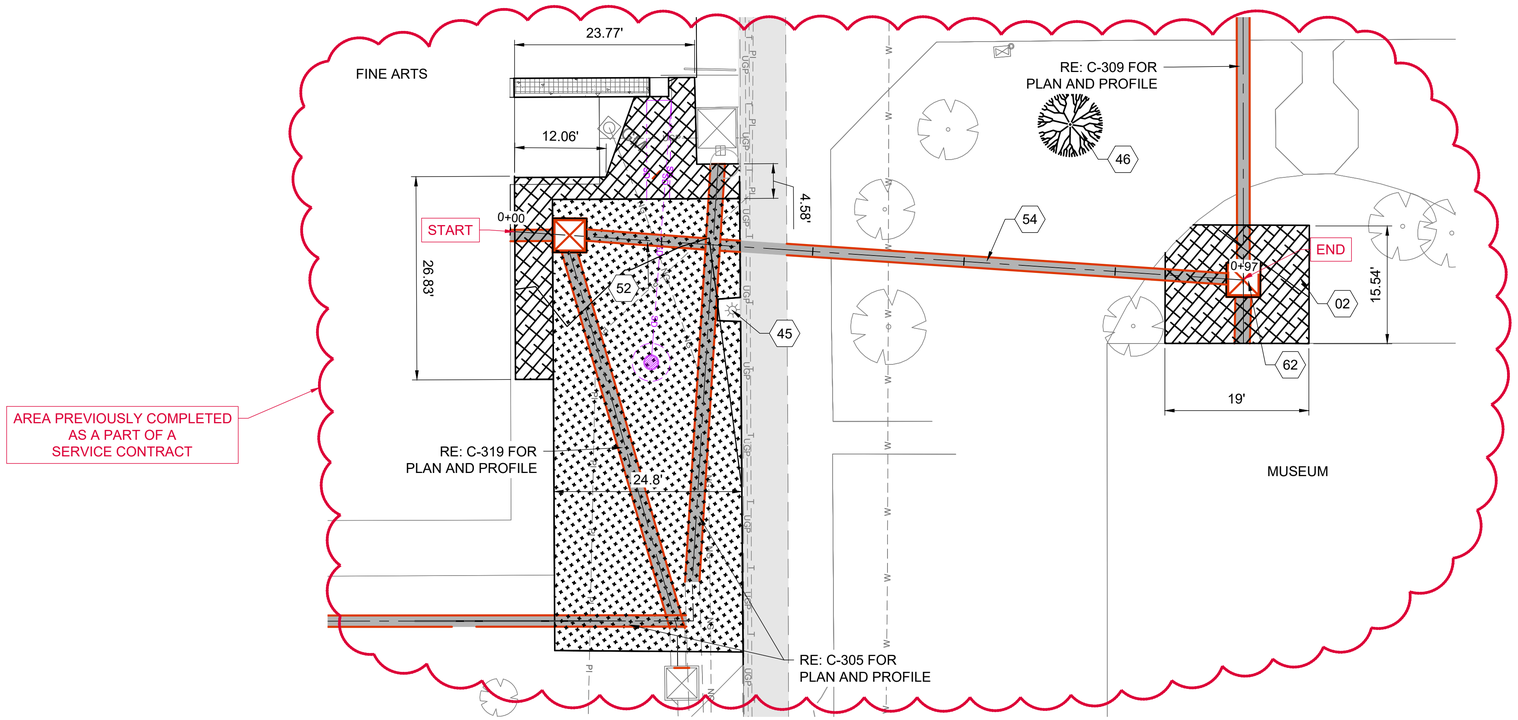

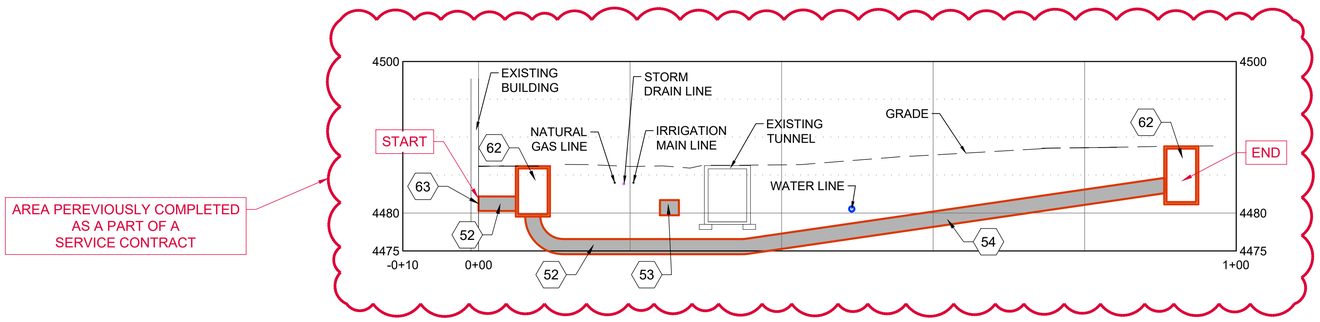

SHEET KEYNOTES

02	LANDSCAPING, (MULCH), REPAIR IRRIGATION AS REQUIRED FOR CONSTRUCTION. REPLACE IN KIND OR BETTER, RE: A3/C-501 & IRRIGATION NOTES SHEET G-002
45	RE-INSTALL LIGHT POLE, RE: A4/C-510
46	RE-PLANT TREE, (SYRINGA, PHILADELPHUS LEWISII), RE: C4/C-501
52	CONDUIT,(COMMUNICATIONS) (TRENCH), RE: ELECTRICAL PLANS
53	CONDUIT, (HIGH VOLTAGE POWER) (TRENCH) RE: ELECTRICAL PLANS
54	CONDUIT,(COMMUNICATIONS) (BORE), RE: ELECTRICAL PLANS
62	COMMUNICATIONS PULL BOX, RE: ELECTRICAL PLANS
63	COMMUNICATIONS CONDUIT TO BUILDING CONNECTION, RE: ELECTICAL PLANS

HATCH LEGEND

- ASPHALT
- NEW TUNNEL
- SOD
- CONCRETE
- MULCH

SITE NOTES

1. COORDINATE WITH ELECTRICAL PLANS AND DETAILS FOR POWER AND COMMUNICATIONS CONDUIT BANK.
2. SEE SHEETS C-100 THROUGH C-103 FOR SITE AND TUNNEL PLANS.
3. IRRIGATION SYSTEM COMPONENTS SUCH AS VALVES, BOXES, HEADS, PIPING, WIRING, ETC. THAT ARE REMOVED OR DAMAGED DUE TO CONSTRUCTION ACTIVITIES ARE TO BE REPLACED WITH IN KIND OR BETTER MATERIALS.

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DPW PROJECT #24-246SC
ISU: REPAIR UTILITY TUNNEL, PHASE 3

IDAHO STATE UNIVERSITY

UTILITY & PROFILE PLAN

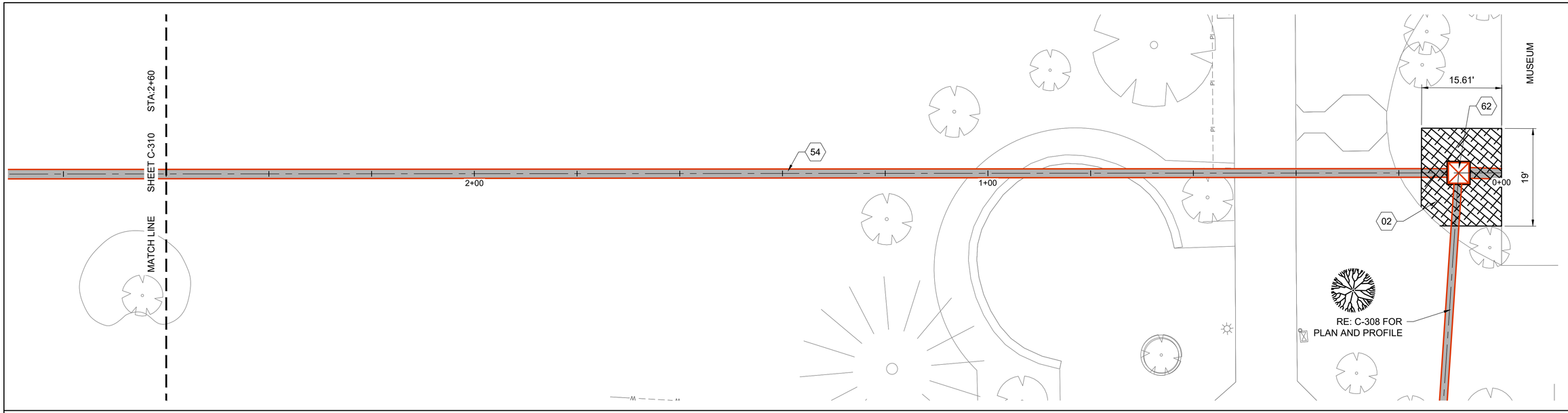
DRAWN: KJW | CHECK: MBH

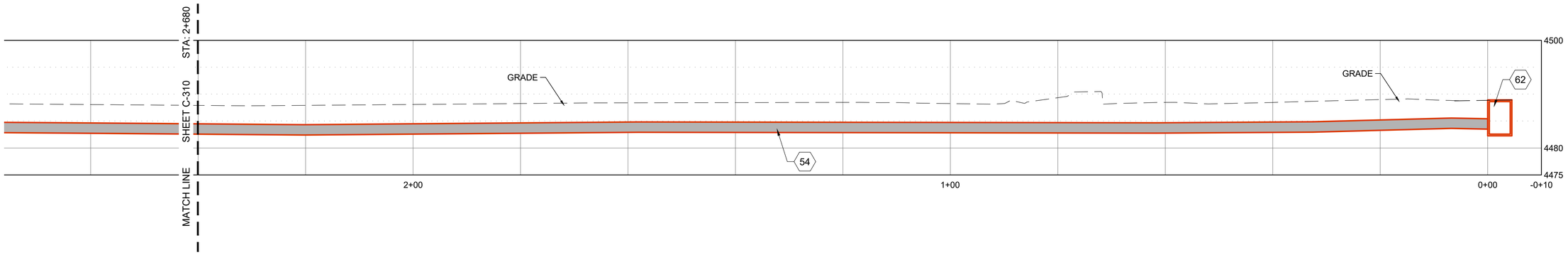
VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO.
208106-119

SHEET NO.
C-308

Docusign Envelope ID: 2CEA88BF-EBC6-4121-8A49-A146A0BA41CA





SHEET KEYNOTES

02	LANDSCAPING, (MULCH), REPAIR IRRIGATION AS REQUIRED FOR CONSTRUCTION. REPLACE IN KIND OR BETTER, RE: A3/C-501 & IRRIGATION NOTES SHEET G-002
54	CONDUIT,(COMMUNICATIONS) (BORE), RE: ELECTRICAL PLANS
62	COMMUNICATIONS PULL BOX, RE: ELECTRICAL PLANS

HATCH LEGEND

- ASPHALT
- NEW TUNNEL
- SOD
- CONCRETE
- MULCH

SITE NOTES

1. COORDINATE WITH ELECTRICAL PLANS AND DETAILS FOR POWER AND COMMUNICATIONS CONDUIT BANK.
2. SEE SHEETS C-100 THROUGH C-103 FOR SITE AND TUNNEL PLANS.
3. IRRIGATION SYSTEM COMPONENTS SUCH AS VALVES, BOXES, HEADS, PIPING, WIRING, ETC. THAT ARE REMOVED OR DAMAGED DUE TO CONSTRUCTION ACTIVITIES ARE TO BE REPLACED WITH IN KIND OR BETTER MATERIALS.

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DPW PROJECT #24-246SC
ISU: REPAIR UTILITY TUNNEL, PHASE 3

IDAHO STATE UNIVERSITY

UTILITY & PROFILE PLAN

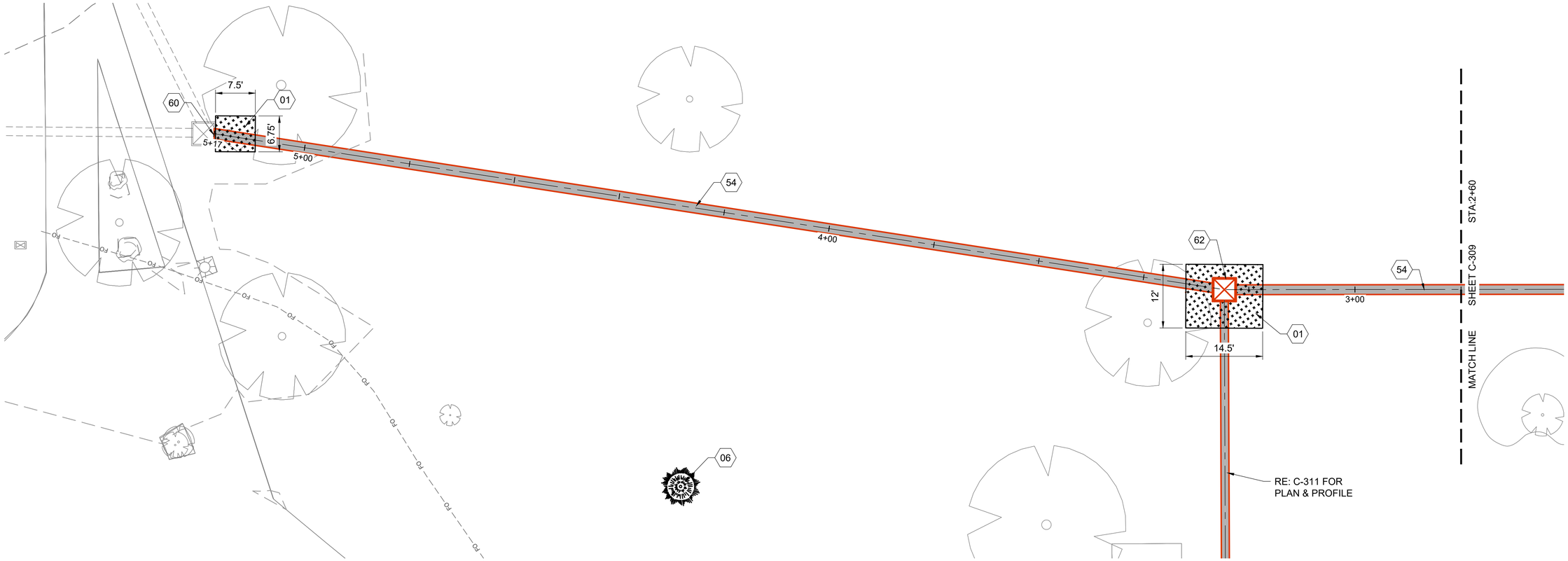
DRAWN: KJW | CHECK: MBH

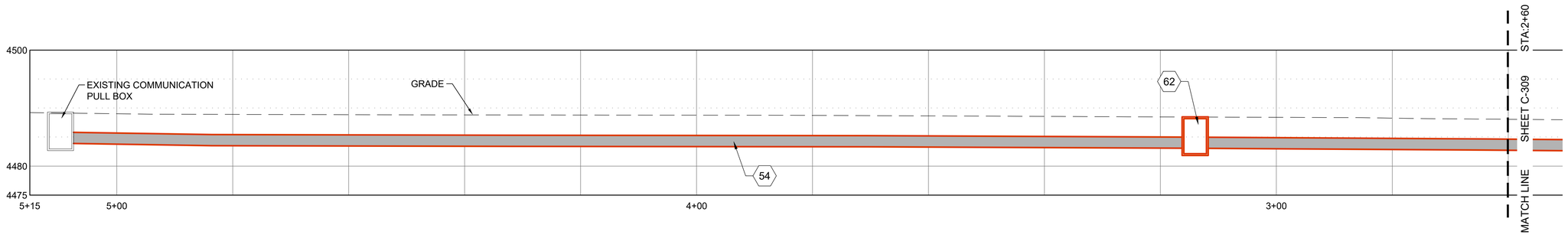
VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO.
208106-119

SHEET NO.
C-309

Docusign Envelope ID: 2CEA88BF-EBC6-4121-8A49-A146A0BA41CA





SHEET KEYNOTES

01	LANDSCAPING, (SOD), REPAIR IRRIGATION AS REQUIRED FOR CONSTRUCTION. REPLACE IN KIND OR BETTER, RE: A3/C-501 & IRRIGATION NOTES SHEET G-002
06	INSTALL NEW TREE, (COLORADO BLUE SPRUCE, PICEA PUNGENS) 12-14' TALL, RE: C4/C-501
54	CONDUIT,(COMMUNICATIONS) (BORE), RE: ELECTRICAL PLANS
60	CONNECT NEW CONDUIT BANK TO EXISTING CONDUIT BANK
62	COMMUNICATIONS PULL BOX, RE: ELECTRICAL PLANS

HATCH LEGEND

- ASPHALT
- NEW TUNNEL
- SOD
- CONCRETE
- MULCH

SITE NOTES

1. COORDINATE WITH ELECTRICAL PLANS AND DETAILS FOR POWER AND COMMUNICATIONS CONDUIT BANK.
2. SEE SHEETS C-100 THROUGH C-103 FOR SITE AND TUNNEL PLANS.
3. IRRIGATION SYSTEM COMPONENTS SUCH AS VALVES, BOXES, HEADS, PIPING, WIRING, ETC. THAT ARE REMOVED OR DAMAGED DUE TO CONSTRUCTION ACTIVITIES ARE TO BE REPLACED WITH IN KIND OR BETTER MATERIALS.

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DPW PROJECT #24-246SC
ISU: REPAIR UTILITY TUNNEL, PHASE 3

IDAHO STATE UNIVERSITY

UTILITY & PROFILE PLAN

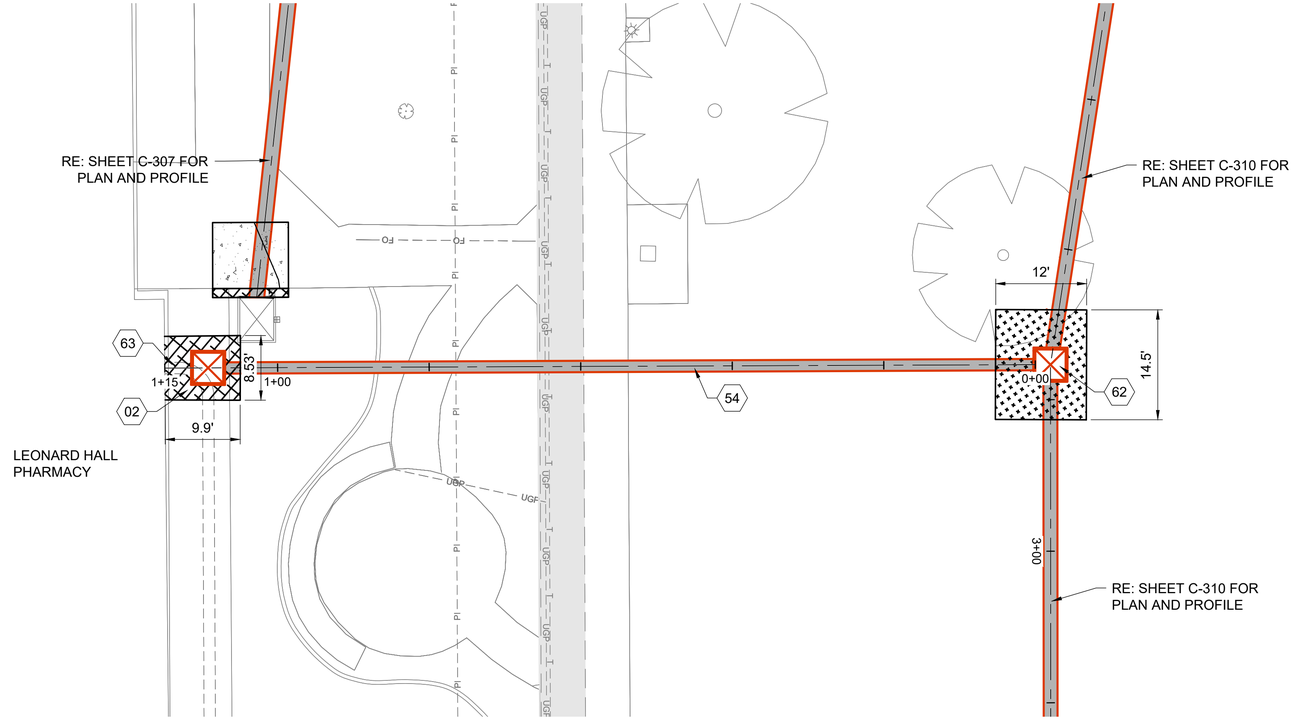
DRAWN: KJW | CHECK: MBH

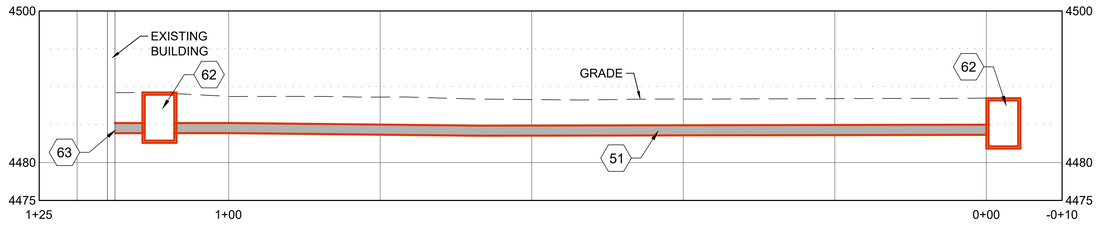
VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO.
208106-119

SHEET NO.
C-310

Docusign Envelope ID: 2CEA88BF-EBC6-4121-8A49-A146A0BA41CA





SHEET KEYNOTES

02	LANDSCAPING, (MULCH), REPAIR IRRIGATION AS REQUIRED FOR CONSTRUCTION. REPLACE IN KIND OR BETTER, RE: A3/C-501 & IRRIGATION NOTES SHEET G-002
51	CONDUIT, (HIGH VOLTAGE POWER) (BORE) RE: ELECTRICAL PLANS
54	CONDUIT,(COMMUNICATIONS) (BORE), RE: ELECTRICAL PLANS
62	COMMUNICATIONS PULL BOX, RE: ELECTRICAL PLANS
63	COMMUNICATIONS CONDUIT TO BUILDING CONNECTION, RE: ELECTICAL PLANS

HATCH LEGEND

- ASPHALT
- NEW TUNNEL
- SOD
- CONCRETE
- MULCH

SITE NOTES

1. COORDINATE WITH ELECTRICAL PLANS AND DETAILS FOR POWER AND COMMUNICATIONS CONDUIT BANK.
2. SEE SHEETS C-100 THROUGH C-103 FOR SITE AND TUNNEL PLANS.
3. IRRIGATION SYSTEM COMPONENTS SUCH AS VALVES, BOXES, HEADS, PIPING, WIRING, ETC. THAT ARE REMOVED OR DAMAGED DUE TO CONSTRUCTION ACTIVITIES ARE TO BE REPLACED WITH IN KIND OR BETTER MATERIALS.

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DPW PROJECT #24-246SC
ISU: REPAIR UTILITY
TUNNEL, PHASE 3

IDAHO STATE UNIVERSITY

UTILITY & PROFILE PLAN

DRAWN: KJW | CHECK: MBH

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO.
208106-119

SHEET NO.
C-311

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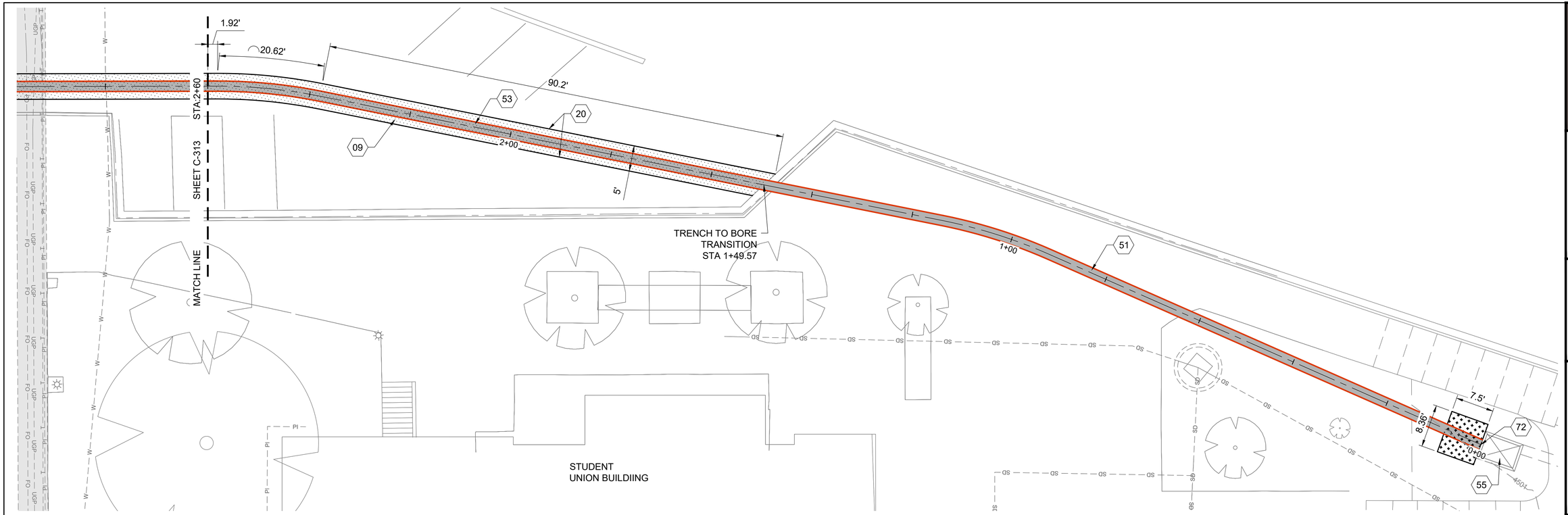

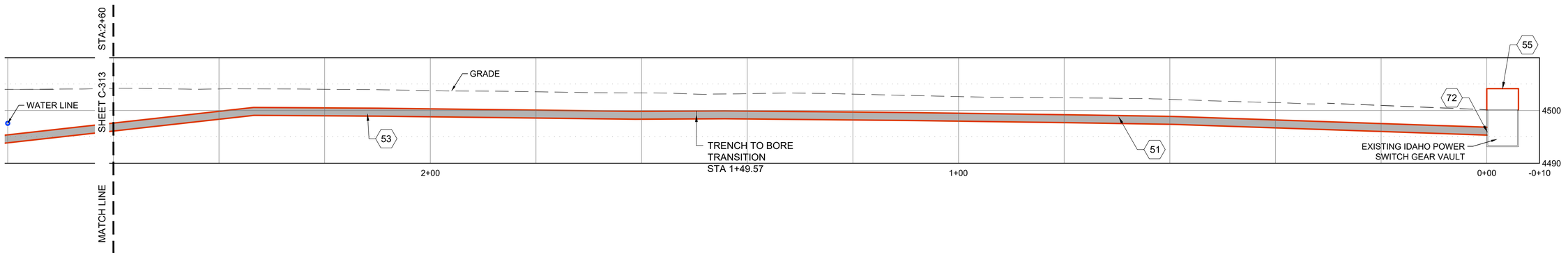

SHEET KEYNOTES

09	ASPHALT REPAIR, RE: C3/C-501
20	ASPHALT TIE IN, RE: A5/C-501
51	CONDUIT, (HIGH VOLTAGE POWER) (BORE) RE: ELECTRICAL PLANS
53	CONDUIT, (HIGH VOLTAGE POWER) (TRENCH) RE: ELECTRICAL PLANS
55	ELECTRICAL SWITCH GEAR, RE: ELECTRICAL PLANS
72	CONNECT NEW CONDUIT BANK TO EXISTING ELECTRICAL SWITCH GEAR VAULT, RE: ELECTRICAL PLANS

HATCH LEGEND

- ASPHALT
- NEW TUNNEL
- SOD
- CONCRETE
- MULCH

SITE NOTES

1. COORDINATE WITH ELECTRICAL PLANS AND DETAILS FOR POWER AND COMMUNICATIONS CONDUIT BANK.
2. SEE SHEETS C-100 THROUGH C-103 FOR SITE AND TUNNEL PLANS.
3. IRRIGATION SYSTEM COMPONENTS SUCH AS VALVES, BOXES, HEADS, PIPING, WIRING, ETC. THAT ARE REMOVED OR DAMAGED DUE TO CONSTRUCTION ACTIVITIES ARE TO BE REPLACED WITH IN KIND OR BETTER MATERIALS.

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DPW PROJECT #24-246SC
ISU: REPAIR UTILITY TUNNEL, PHASE 3

IDAHO STATE UNIVERSITY

UTILITY & PROFILE PLAN

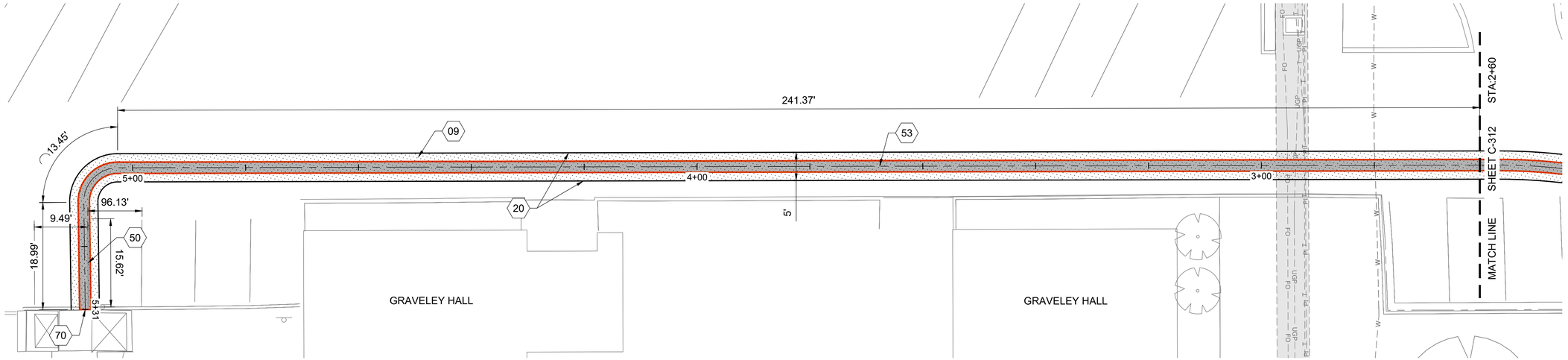
DRAWN: KJW | CHECK: MBH

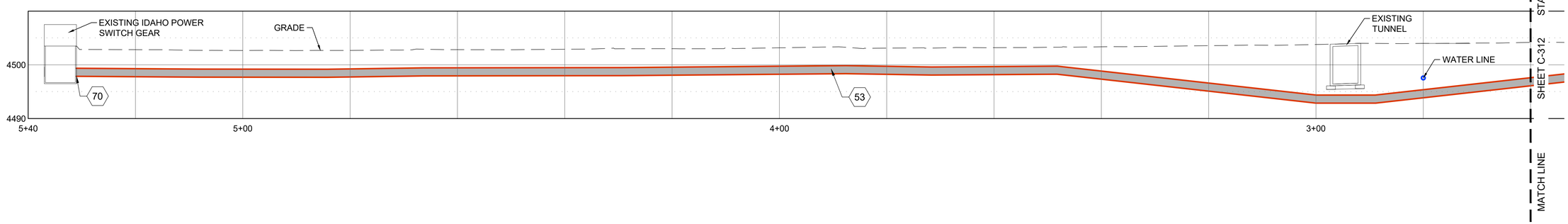
VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO.
208106-119

SHEET NO.
C-312

Docusign Envelope ID: 2CEA88BF-EBC6-4121-8A49-A146A0BA41CA





SHEET KEYNOTES

09	ASPHALT REPAIR, RE: C3/C-501
20	ASPHALT TIE IN, RE: A5/C-501
50	PARKING STALL MARKING, 4" WHITE PAINTED LINE
53	CONDUIT, (HIGH VOLTAGE POWER) (TRENCH) RE: ELECTRICAL PLANS
70	CONNECT NEW CONDUIT BANK TO EXISTING ELECTRICAL SWITCH GEAR, RE: ELECTRICAL PLANS

HATCH LEGEND

- ASPHALT
- NEW TUNNEL
- SOD
- CONCRETE
- MULCH

SITE NOTES

1. COORDINATE WITH ELECTRICAL PLANS AND DETAILS FOR POWER AND COMMUNICATIONS CONDUIT BANK.
2. SEE SHEETS C-100 THROUGH C-103 FOR SITE AND TUNNEL PLANS.
3. IRRIGATION SYSTEM COMPONENTS SUCH AS VALVES, BOXES, HEADS, PIPING, WIRING, ETC. THAT ARE REMOVED OR DAMAGED DUE TO CONSTRUCTION ACTIVITIES ARE TO BE REPLACED WITH IN KIND OR BETTER MATERIALS.

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DPW PROJECT #24-246SC
ISU: REPAIR UTILITY TUNNEL, PHASE 3

IDAHO STATE UNIVERSITY

UTILITY & PROFILE PLAN

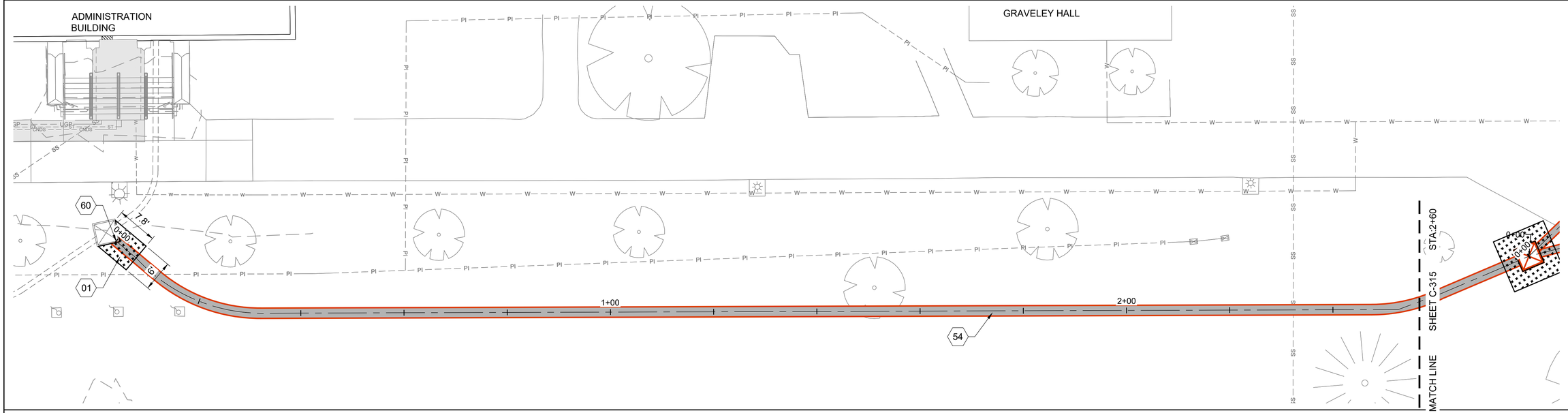
DRAWN: KJW | CHECK: MBH

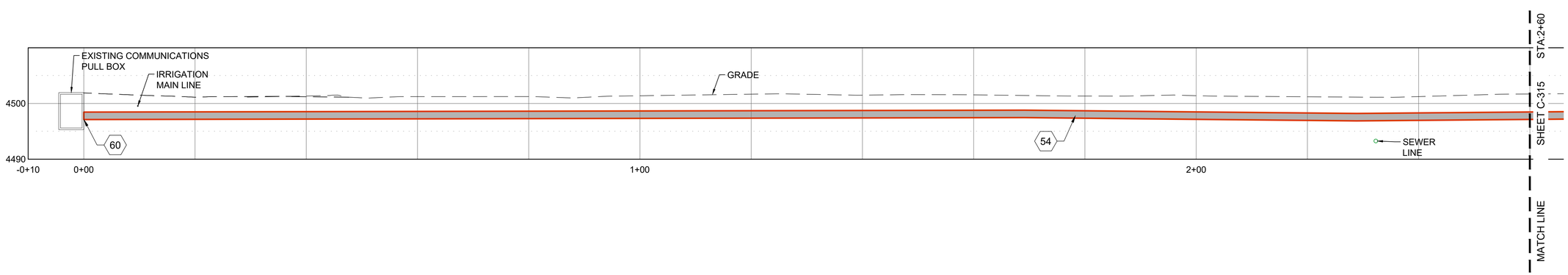
VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO.
208106-119

SHEET NO.
C-313

Docusign Envelope ID: 2CEA88BF-EBC6-4121-8A49-A146A0BA41CA





SHEET KEYNOTES

01	LANDSCAPING, (SOD), REPAIR IRRIGATION AS REQUIRED FOR CONSTRUCTION. REPLACE IN KIND OR BETTER, RE: A3/C-501 & IRRIGATION NOTES SHEET G-002
54	CONDUIT,(COMMUNICATIONS) (BORE), RE: ELECTRICAL PLANS
60	CONNECT NEW CONDUIT BANK TO EXISTING CONDUIT BANK

HATCH LEGEND

- ASPHALT
- NEW TUNNEL
- SOD
- CONCRETE
- MULCH

SITE NOTES

1. COORDINATE WITH ELECTRICAL PLANS AND DETAILS FOR POWER AND COMMUNICATIONS CONDUIT BANK.
2. SEE SHEETS C-100 THROUGH C-103 FOR SITE AND TUNNEL PLANS.
3. IRRIGATION SYSTEM COMPONENTS SUCH AS VALVES, BOXES, HEADS, PIPING, WIRING, ETC. THAT ARE REMOVED OR DAMAGED DUE TO CONSTRUCTION ACTIVITIES ARE TO BE REPLACED WITH IN KIND OR BETTER MATERIALS.

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DPW PROJECT #24-246SC
ISU: REPAIR UTILITY TUNNEL, PHASE 3

IDAHO STATE UNIVERSITY

UTILITY & PROFILE PLAN

DRAWN: KJW | CHECK: MBH

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO.
208106-119

SHEET NO.
C-314

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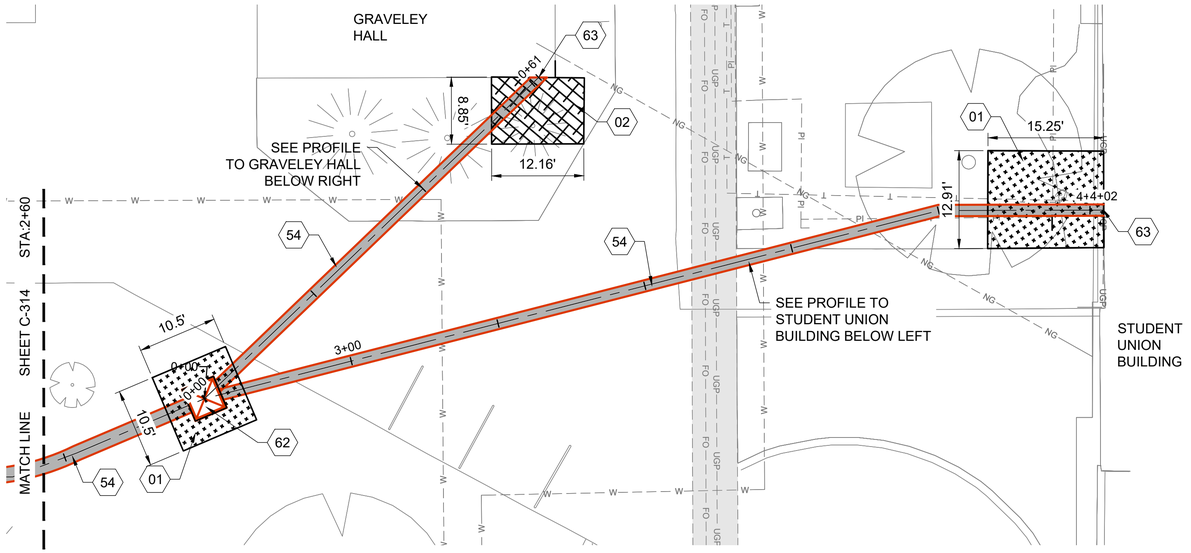
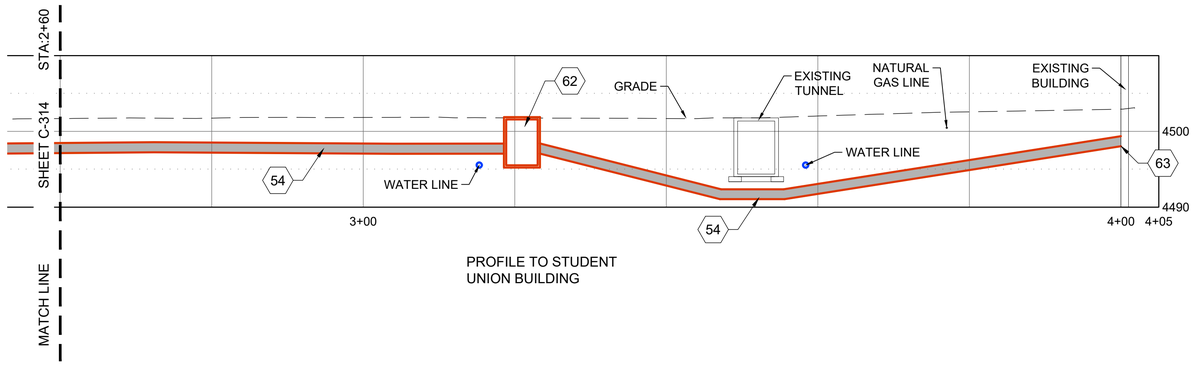
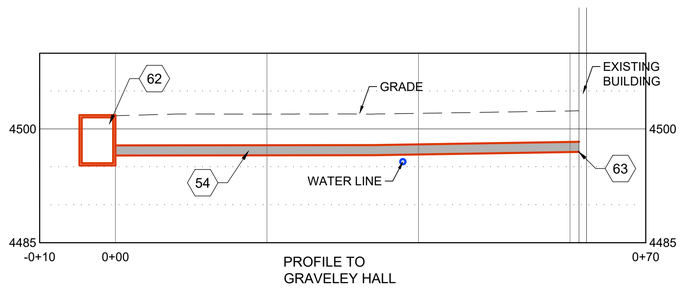




PROFILE TO STUDENT
UNION BUILDING



PROFILE TO
GRAVELEY HALL

SHEET KEYNOTES

01	LANDSCAPING, (SOD), REPAIR IRRIGATION AS REQUIRED FOR CONSTRUCTION. REPLACE IN KIND OR BETTER, RE: A3/C-501 & IRRIGATION NOTES SHEET G-002
02	LANDSCAPING, (MULCH), REPAIR IRRIGATION AS REQUIRED FOR CONSTRUCTION. REPLACE IN KIND OR BETTER, RE: A3/C-501 & IRRIGATION NOTES SHEET G-002
54	CONDUIT,(COMMUNICATIONS) (BORE), RE: ELECTRICAL PLANS
62	COMMUNICATIONS PULL BOX, RE: ELECTRICAL PLANS
63	COMMUNICATIONS CONDUIT TO BUILDING CONNECTION, RE: ELECTICAL PLANS

HATCH LEGEND

- ASPHALT
- NEW TUNNEL
- SOD
- CONCRETE
- MULCH

SITE NOTES

1. COORDINATE WITH ELECTRICAL PLANS AND DETAILS FOR POWER AND COMMUNICATIONS CONDUIT BANK.
2. SEE SHEETS C-100 THROUGH C-103 FOR SITE AND TUNNEL PLANS.
3. IRRIGATION SYSTEM COMPONENTS SUCH AS VALVES, BOXES, HEADS, PIPING, WIRING, ETC. THAT ARE REMOVED OR DAMAGED DUE TO CONSTRUCTION ACTIVITIES ARE TO BE REPLACED WITH IN KIND OR BETTER MATERIALS.

0 10 20

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MATTHEW B. HILL

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DPW PROJECT #24-246SC
ISU: REPAIR UTILITY TUNNEL, PHASE 3

IDAHO STATE UNIVERSITY

UTILITY & PROFILE PLAN

DRAWN: KJW | CHECK: MBH

VERIFY SCALE: Scales based on 22"x34" prints.

1-1/2 Inches

PROJECT NO.
208106-119

SHEET NO.
C-315

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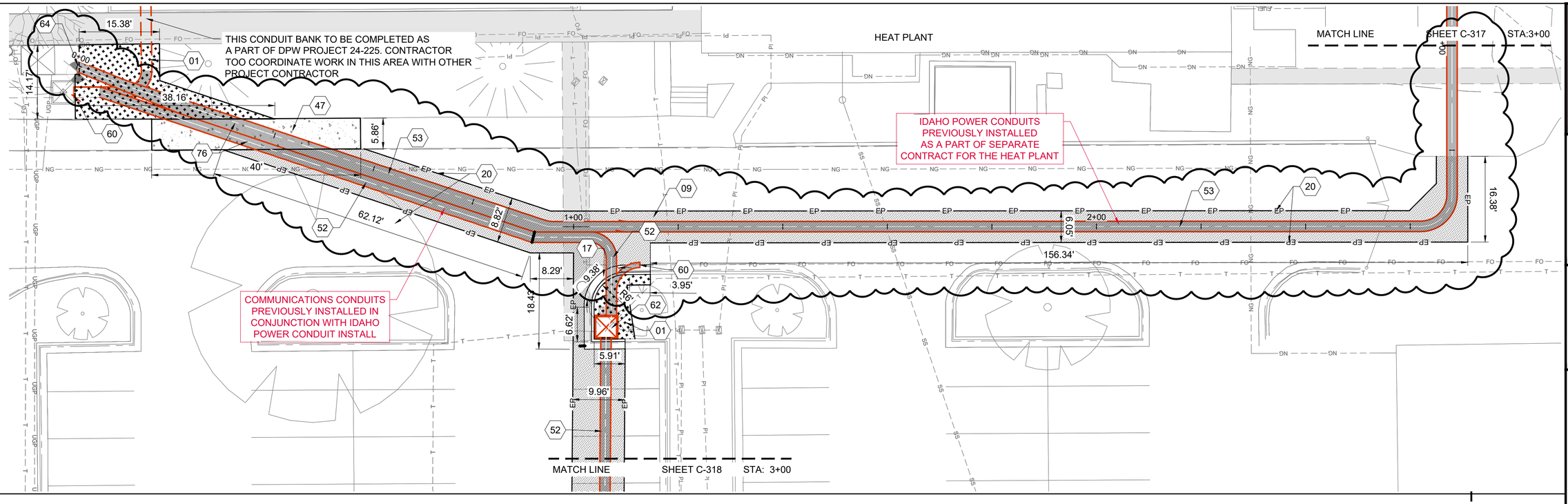

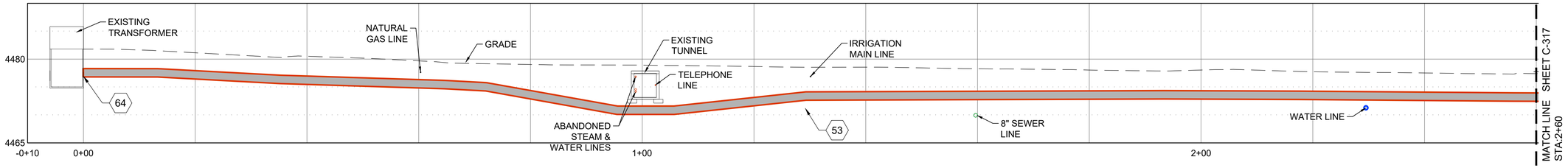

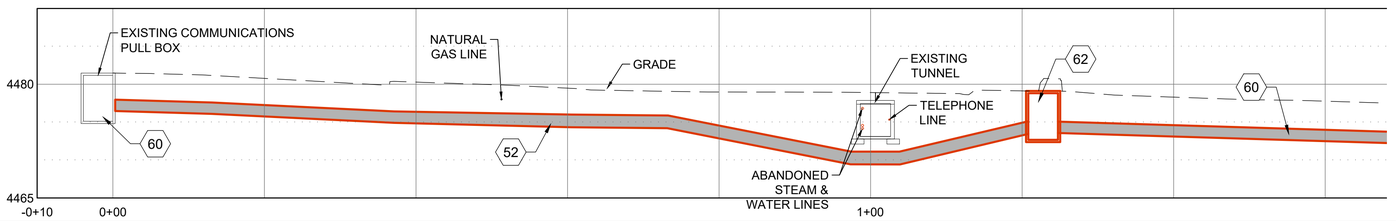

SHEET KEYNOTES

01	LANDSCAPING, (SOD), REPAIR IRRIGATION AS REQUIRED FOR CONSTRUCTION. REPLACE IN KIND OR BETTER, RE: A3/C-501 & IRRIGATION NOTES SHEET G-002
09	ASPHALT REPAIR, RE: C3/C-501
17	STANDARD CURB & GUTTER, RE: A1/C-502
20	ASPHALT TIE IN, RE: A5/C-501
47	THICKENED EDGE SIDEWALK, RE: A4/C-503
52	CONDUIT,(COMMUNICATIONS) (TRENCH), RE: ELECTRICAL PLANS
53	CONDUIT, (HIGH VOLTAGE POWER) (TRENCH) RE: ELECTRICAL PLANS
60	CONNECT NEW CONDUIT BANK TO EXISTING CONDUIT BANK
62	COMMUNICATIONS PULL BOX, RE: ELECTRICAL PLANS
64	POWER CONDUIT CONNECTION TO TRANSFORMERS, RE: ELECTRICAL PLANS
76	CONDUIT BANK, (HIGH VOLTAGE POWER & COMMUNICATIONS) (TRENCH) RE: ELECTRICAL PLANS

HATCH LEGEND

- ASPHALT
- NEW TUNNEL
- SOD
- CONCRETE
- MULCH

SITE NOTES

1. COORDINATE WITH ELECTRICAL PLANS AND DETAILS FOR POWER AND COMMUNICATIONS CONDUIT BANK.
2. SEE SHEETS C-100 THROUGH C-103 FOR SITE AND TUNNEL PLANS.
3. IRRIGATION SYSTEM COMPONENTS SUCH AS VALVES, BOXES, HEADS, PIPING, WIRING, ETC. THAT ARE REMOVED OR DAMAGED DUE TO CONSTRUCTION ACTIVITIES ARE TO BE REPLACED WITH IN KIND OR BETTER MATERIALS.

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DPW PROJECT #24-246SC
ISU: REPAIR UTILITY TUNNEL, PHASE 3

IDAHO STATE UNIVERSITY

UTILITY & PROFILE PLAN

DRAWN: KJW | CHECK: MBH

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO.
208106-119

SHEET NO.
C-316

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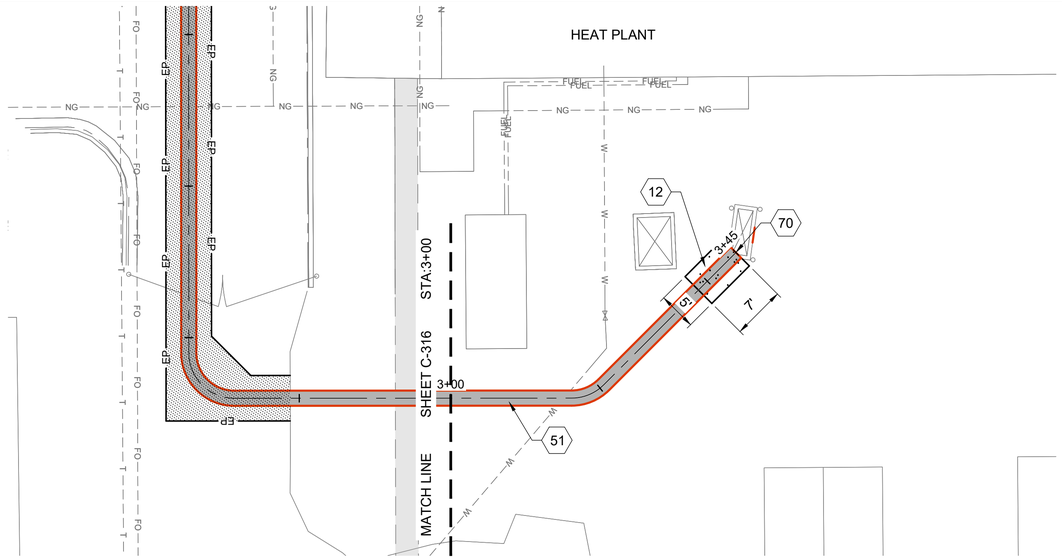

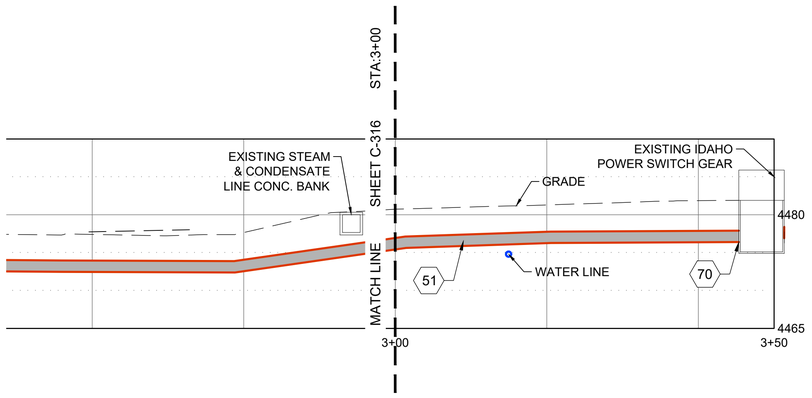

SHEET KEYNOTES

12 GRAVEL SURFACE REPAIR, RE: B2/C-501

51 CONDUIT, (HIGH VOLTAGE POWER) (BORE) RE: ELECTRICAL PLANS

70 CONNECT NEW CONDUIT BANK TO EXISTING ELECTRICAL SWITCH GEAR, RE: ELECTRICAL PLANS

HATCH LEGEND

- ASPHALT
- NEW TUNNEL
- SOD
- CONCRETE
- MULCH

SITE NOTES

1. COORDINATE WITH ELECTRICAL PLANS AND DETAILS FOR POWER AND COMMUNICATIONS CONDUIT BANK.
2. SEE SHEETS C-100 THROUGH C-103 FOR SITE AND TUNNEL PLANS.
3. IRRIGATION SYSTEM COMPONENTS SUCH AS VALVES, BOXES, HEADS, PIPING, WIRING, ETC. THAT ARE REMOVED OR DAMAGED DUE TO CONSTRUCTION ACTIVITIES ARE TO BE REPLACED WITH IN KIND OR BETTER MATERIALS.

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DPW PROJECT #24-246SC
ISU: REPAIR UTILITY TUNNEL, PHASE 3

IDAHO STATE UNIVERSITY

UTILITY & PROFILE PLAN

DRAWN: KJW | CHECK: MBH

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO.
208106-119

SHEET NO.
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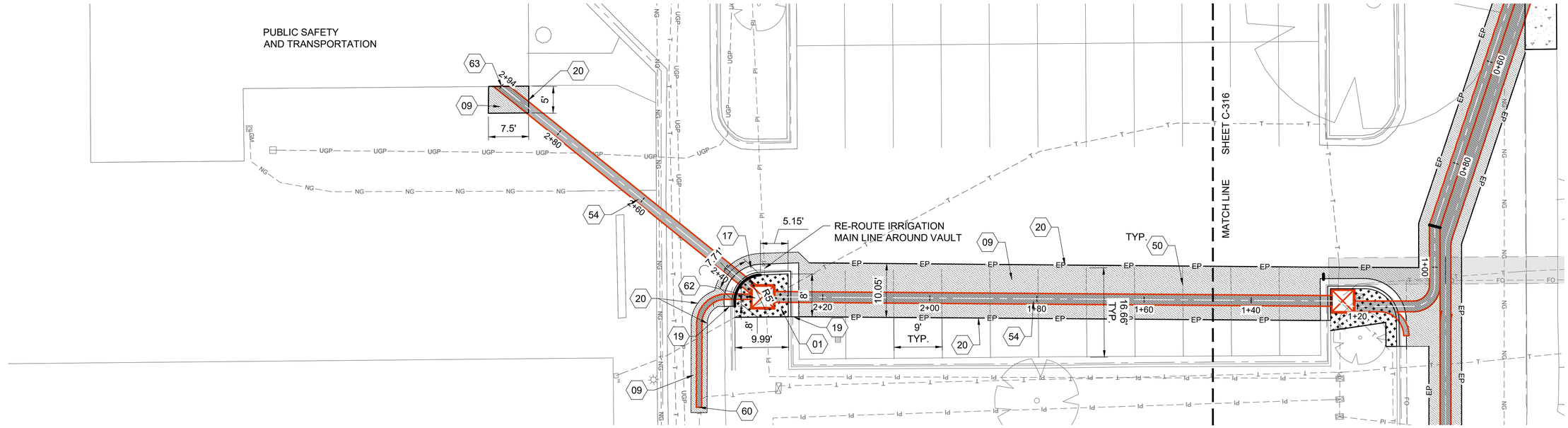

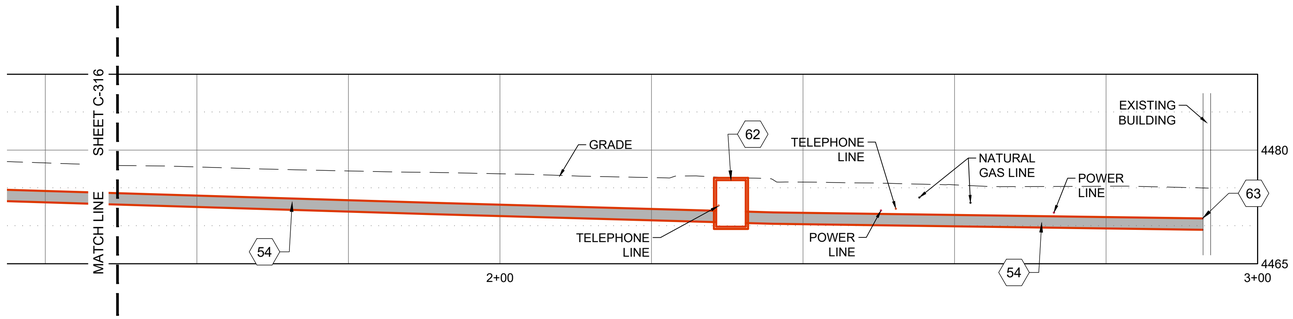

SHEET KEYNOTES

01	LANDSCAPING, (SOD), REPAIR IRRIGATION AS REQUIRED FOR CONSTRUCTION. REPLACE IN KIND OR BETTER, RE: A3/C-501 & IRRIGATION NOTES SHEET G-002
09	ASPHALT REPAIR, RE: C3/C-501
20	ASPHALT TIE IN, RE: A5/C-501
54	CONDUIT,(COMMUNICATIONS) (BORE), RE: ELECTRICAL PLANS
63	COMMUNICATIONS CONDUIT TO BUILDING CONNECTION, RE: ELECTICAL PLANS
71	CONNECT NEW COMMUNICATIONS CONDUIT BANK TO EXISTING COMMUNICATIONS PULL BOX

HATCH LEGEND

- ASPHALT
- NEW TUNNEL
- SOD
- CONCRETE
- MULCH

SITE NOTES

1. COORDINATE WITH ELECTRICAL PLANS AND DETAILS FOR POWER AND COMMUNICATIONS CONDUIT BANK.
2. SEE SHEETS C-100 THROUGH C-103 FOR SITE AND TUNNEL PLANS.
3. IRRIGATION SYSTEM COMPONENTS SUCH AS VALVES, BOXES, HEADS, PIPING, WIRING, ETC. THAT ARE REMOVED OR DAMAGED DUE TO CONSTRUCTION ACTIVITIES ARE TO BE REPLACED WITH IN KIND OR BETTER MATERIALS.

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DPW PROJECT #24-246SC
ISU: REPAIR UTILITY TUNNEL, PHASE 3

IDAHO STATE UNIVERSITY

UTILITY & PROFILE PLAN

DRAWN: KJW | CHECK: MBH

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO.
208106-119

SHEET NO.
C-318

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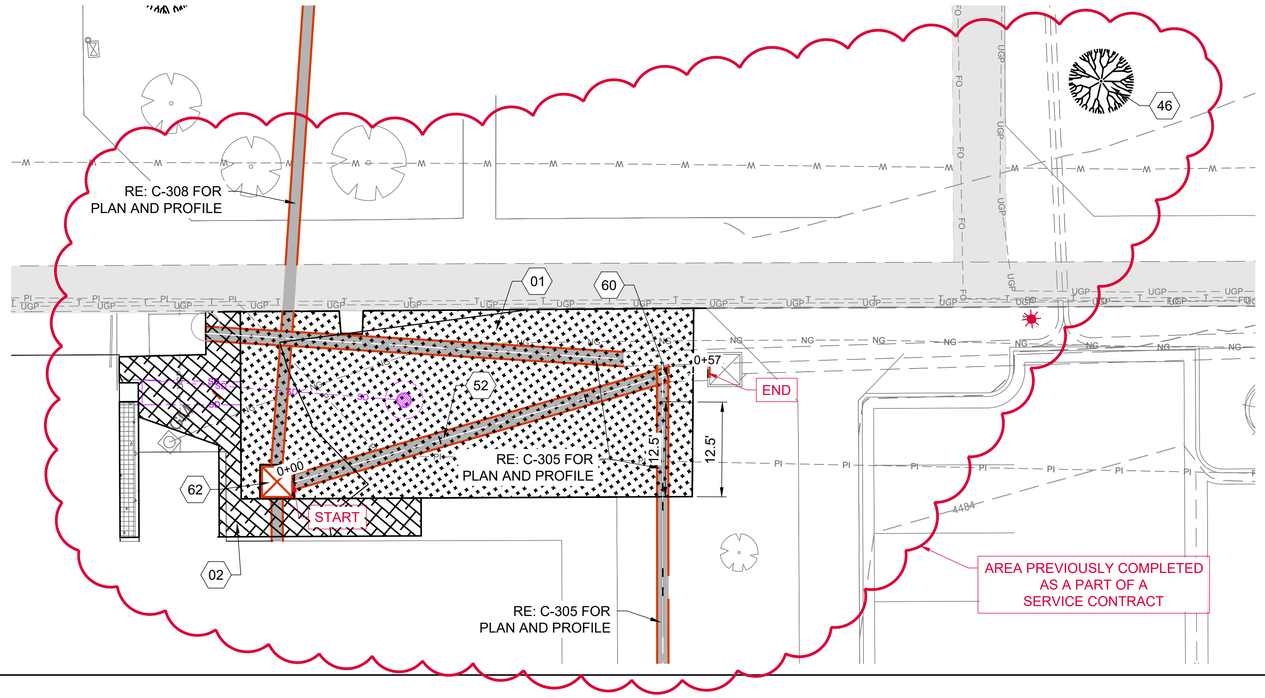

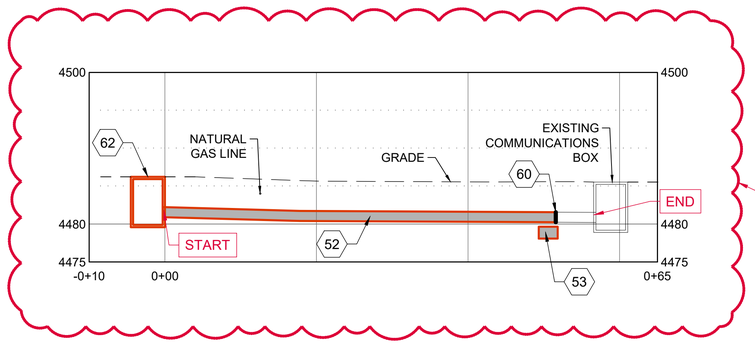

SHEET KEYNOTES

01	LANDSCAPING, (SOD), REPAIR IRRIGATION AS REQUIRED FOR CONSTRUCTION. REPLACE IN KIND OR BETTER, RE: A3/C-501 & IRRIGATION NOTES SHEET G-002
02	LANDSCAPING, (MULCH), REPAIR IRRIGATION AS REQUIRED FOR CONSTRUCTION. REPLACE IN KIND OR BETTER, RE: A3/C-501 & IRRIGATION NOTES SHEET G-002
46	RE-PLANT TREE, (SYRINGA, PHILADELPHUS LEWISII), RE: C4/C-501
52	CONDUIT,(COMMUNICATIONS) (TRENCH), RE: ELECTRICAL PLANS
53	CONDUIT, (HIGH VOLTAGE POWER) (TRENCH) RE: ELECTRICAL PLANS
60	CONNECT NEW CONDUIT BANK TO EXISTING CONDUIT BANK
62	COMMUNICATIONS PULL BOX, RE: ELECTRICAL PLANS

HATCH LEGEND

- ASPHALT
- NEW TUNNEL
- SOD
- CONCRETE
- MULCH

SITE NOTES

1. COORDINATE WITH ELECTRICAL PLANS AND DETAILS FOR POWER AND COMMUNICATIONS CONDUIT BANK.
2. SEE SHEETS C-100 THROUGH C-103 FOR SITE AND TUNNEL PLANS.
3. IRRIGATION SYSTEM COMPONENTS SUCH AS VALVES, BOXES, HEADS, PIPING, WIRING, ETC. THAT ARE REMOVED OR DAMAGED DUE TO CONSTRUCTION ACTIVITIES ARE TO BE REPLACED WITH IN KIND OR BETTER MATERIALS.

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MATTHEW B. HILL

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DPW PROJECT #24-246SC
ISU: REPAIR UTILITY TUNNEL, PHASE 3

IDAHO STATE UNIVERSITY

UTILITY & PROFILE PLAN

DRAWN: KJW | CHECK: MBH

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO.
208106-119

SHEET NO.
C-319

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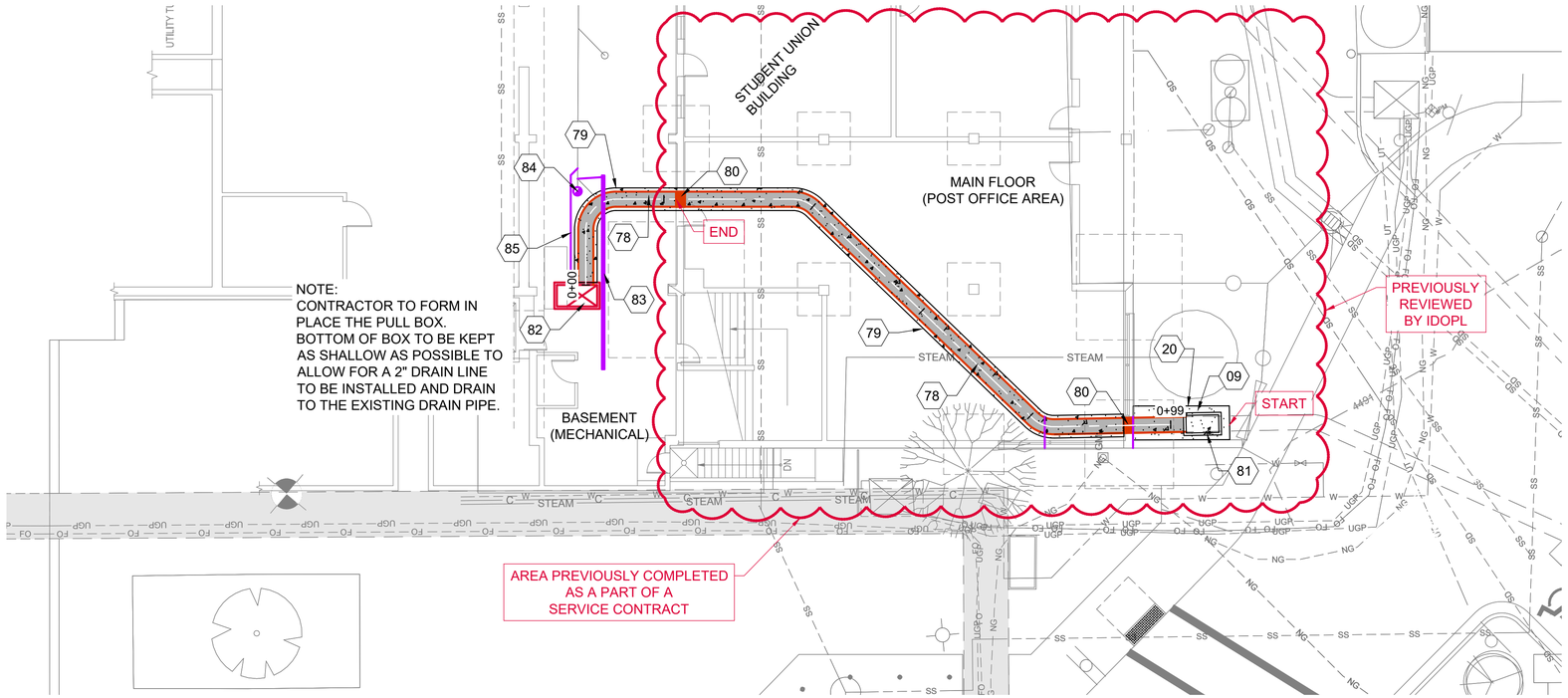

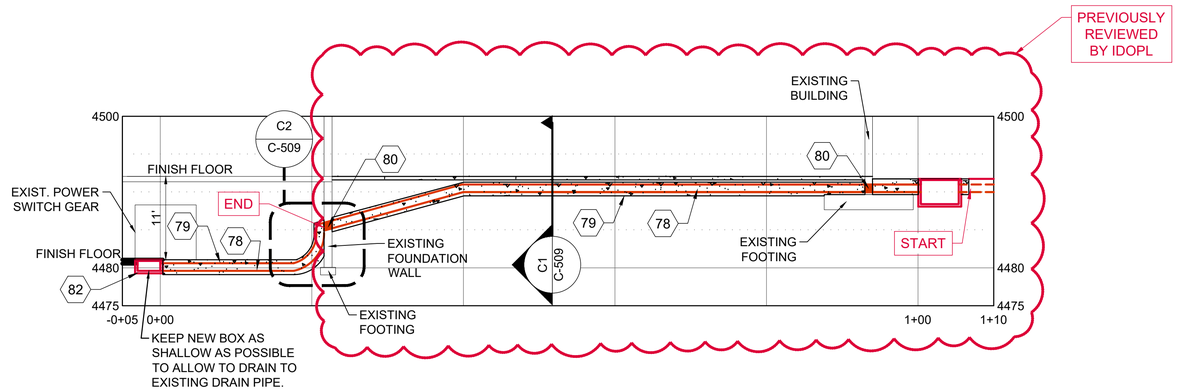

SHEET KEYNOTES

09 ASPHALT REPAIR, RE: C3/C-501

20 ASPHALT TIE IN, RE: A5/C-501

78 CONDUIT BANK (HIGH VOLTAGE SECONDARY POWER) (TRENCH THROUGH BUILDING FLOOR), RE: ELECTRICAL PLANS

79 ENCASE CONDUIT BANK IN RED DYED CONCRETE. 4" MIN COVER OVER CONDUIT. FINISH FLUSH WITH EXISTING CONCRETE AT FLOOR, RE: C1/C-509

80 CORE DRILL THROUGH EXISTING FOUNDATION WALL FOR EACH CONDUIT, GROUT AND SEAL AROUND EACH CONDUIT. APPLY WATER PROOFING ON BURIED SIDE(S) OF WALL.

81 ELECTRICAL PULL BOX. SET TOP FLUSH WITH GRADE, RE: ELECTRICAL PLANS

82 ELECTRICAL PULL BOX (CAST IN PLACE). SET TOP FLUSH WITH CONCRETE FLOOR, RE: C2/C-510 & ELECTRICAL PLANS

83 FORMED IN PLACE TRENCH DRAIN, RE: A4/C-510

84 CLEAN OUT, CONNECT TO END OF EXISTING DRAIN PIPE (MATCH EXIST. PIPE SIZE) RE: C1/C-510

85 2" DRAIN FROM POWER PULL BOX TO EXISTING DRAIN PIPE, RE: C2/C-510

HATCH LEGEND

CONCRETE

SITE NOTES

1. COORDINATE WITH ELECTRICAL PLANS AND DETAILS FOR POWER AND COMMUNICATIONS CONDUIT BANK.

0 10 20

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STATE OF IDAHO
MATTHEW B. HILL

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DPW PROJECT #24-246SC
ISU: REPAIR UTILITY TUNNEL, PHASE 3

IDAHO STATE UNIVERSITY

UTILITY & PROFILE PLAN

DRAWN: KJW | CHECK: MBH

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO.
208106-119

SHEET NO.
C-320

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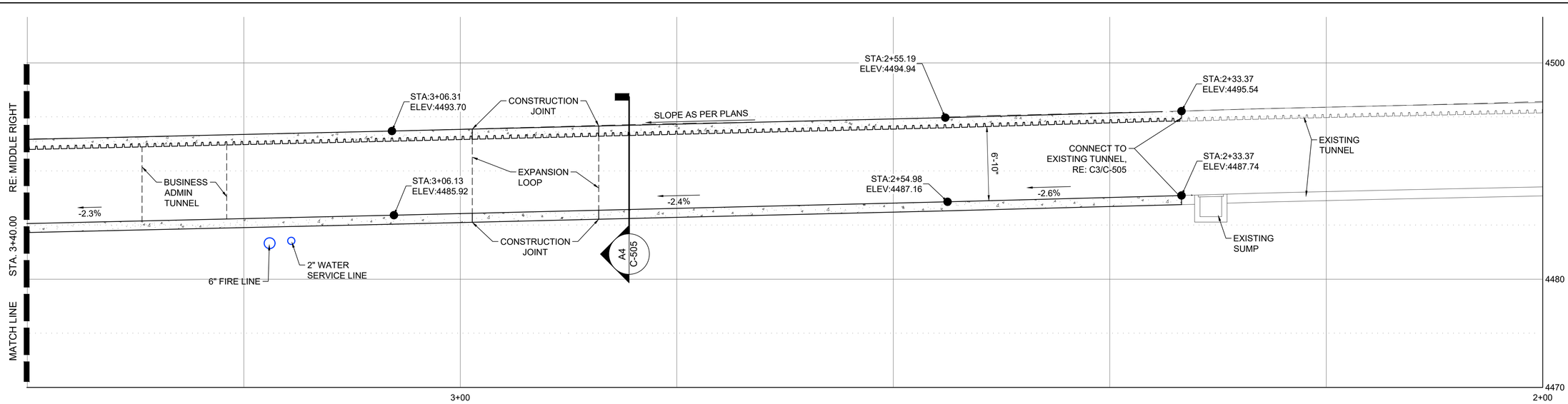

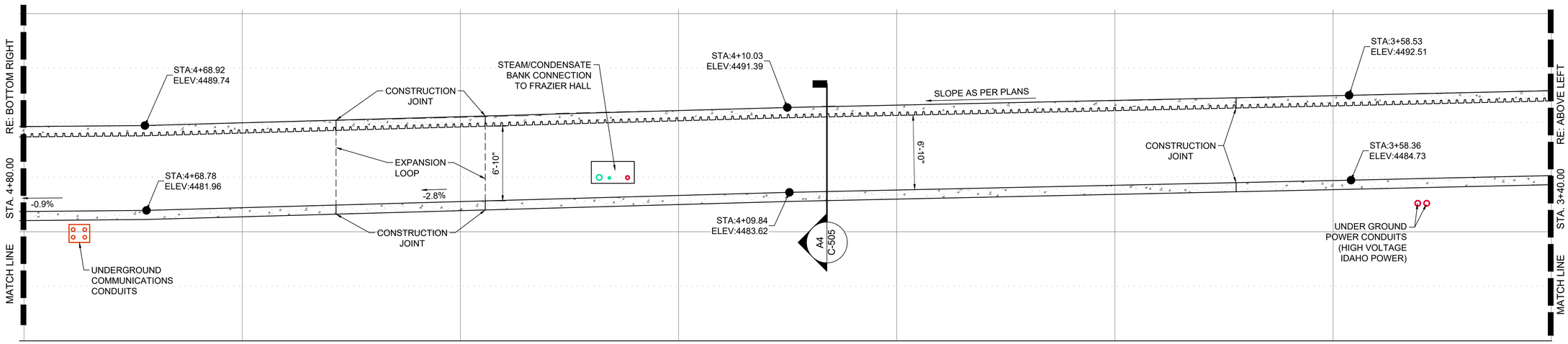

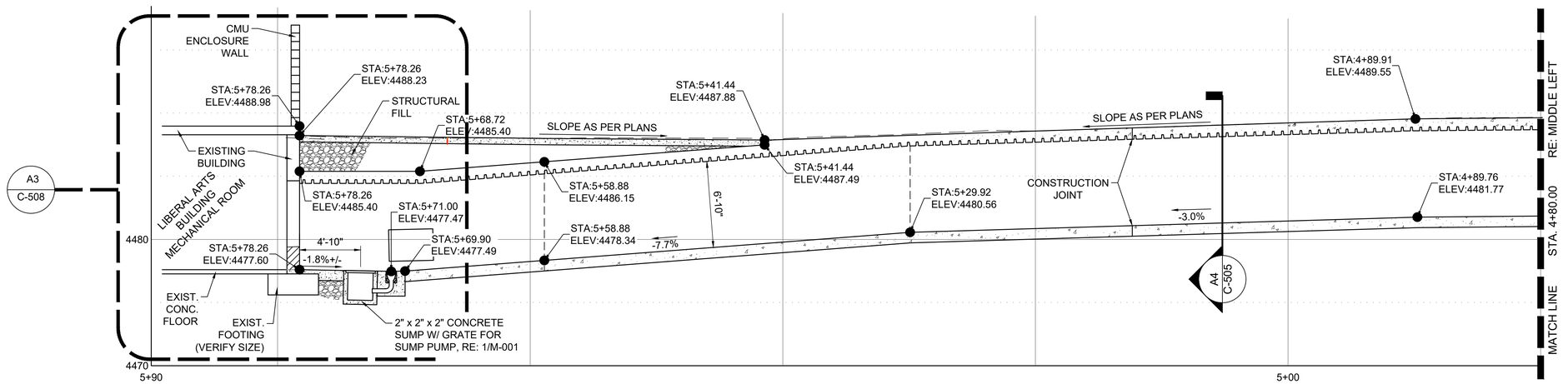

A1 STEAM TUNNEL SECTION VIEW-TUNNEL C

N.T.S.

0 5 10

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DPW PROJECT #24-246SC
ISU: REPAIR UTILITY TUNNEL, PHASE 3

IDAHO STATE UNIVERSITY

NEW TUNNEL C PROFILE SECTION

DRAWN: KJW CHECK: MBH

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO.
208106-119

SHEET NO.
C-401

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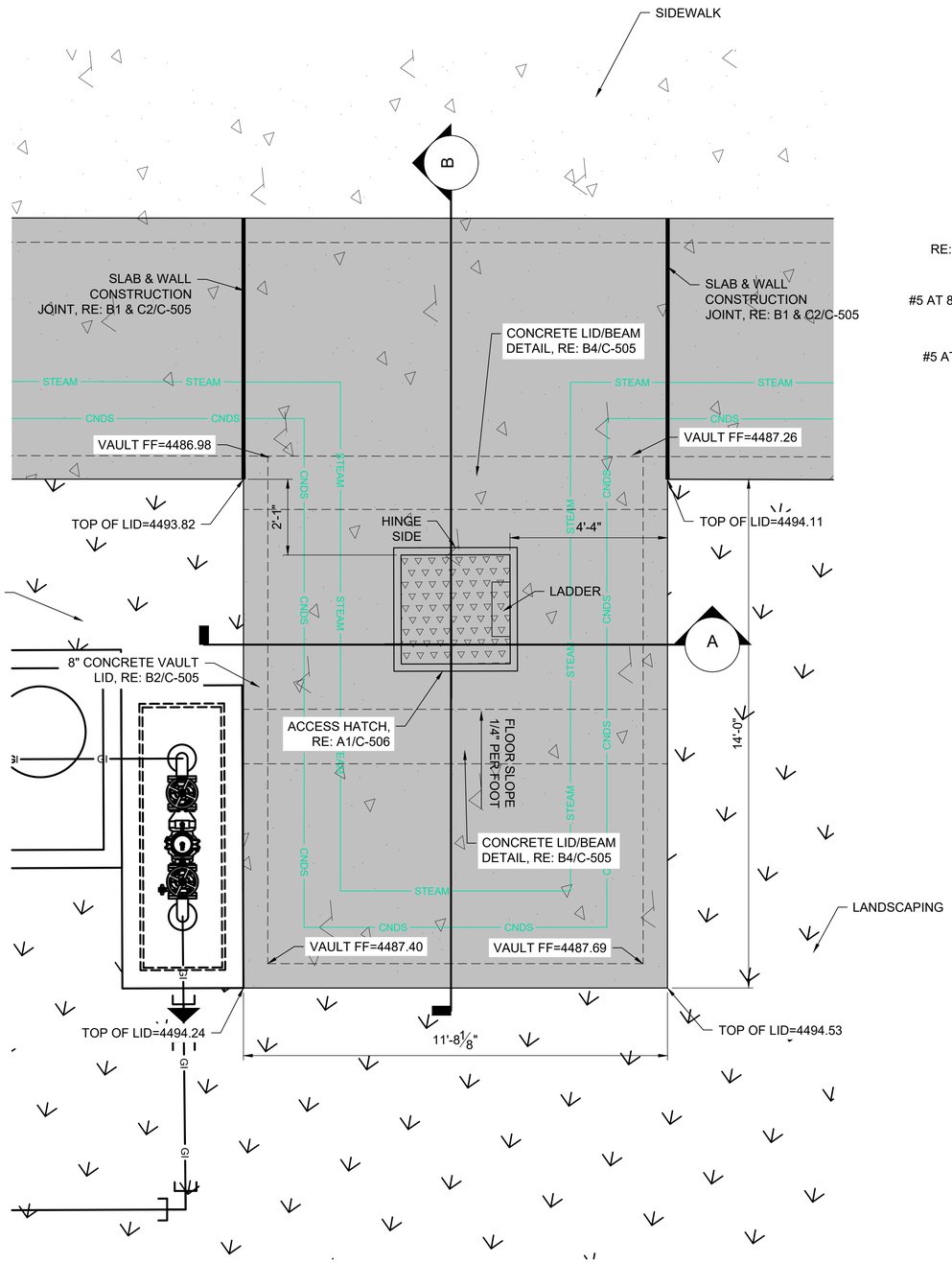
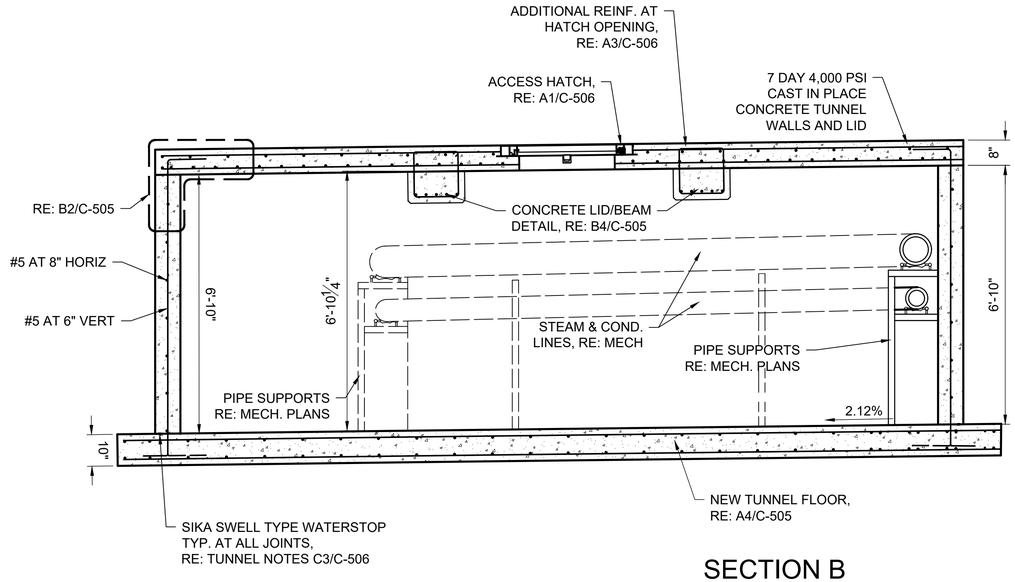
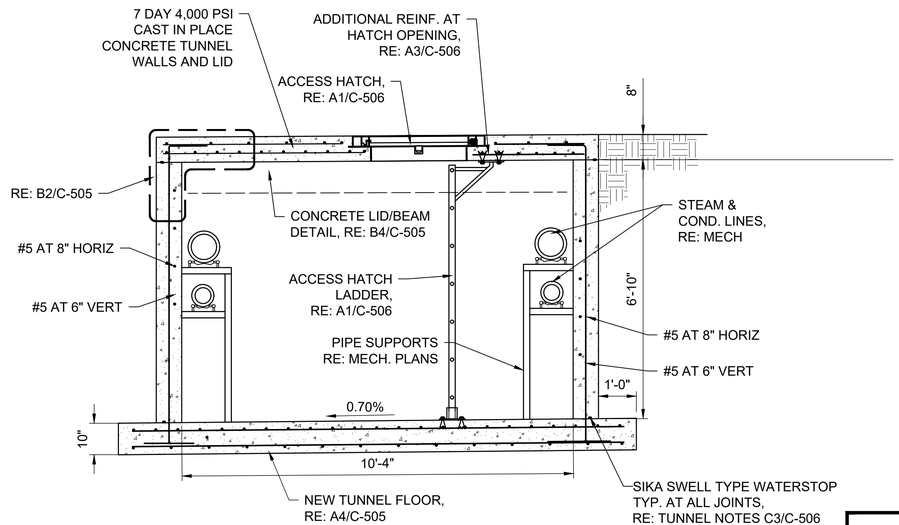




SECTION B



SECTION A

A1 ENLARGED EXPANSION LOOP VAULT A - PLAN AND SECTION DETAIL

1/2" = 1'-0"

0 1' 2' 4'

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(208) 238-2146

REGISTERED PROFESSIONAL ENGINEER
Digitally signed by DAVID R. KINZER
PE14752/CC/CFCA/RD
2659
8/29/2025
STATE OF IDAHO
DAVID R. KINZER

NO.	REVISIONS	DATE

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DPW PROJECT #24-246SC
ISU: REPAIR UTILITY TUNNEL, PHASE 3

IDAHO STATE UNIVERSITY

ENLARGED SITE
DETAI-EXPANSION LOOP A

DRAWN: KJW CHECK: MBH

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO.
208106-119

SHEET NO.
C-402

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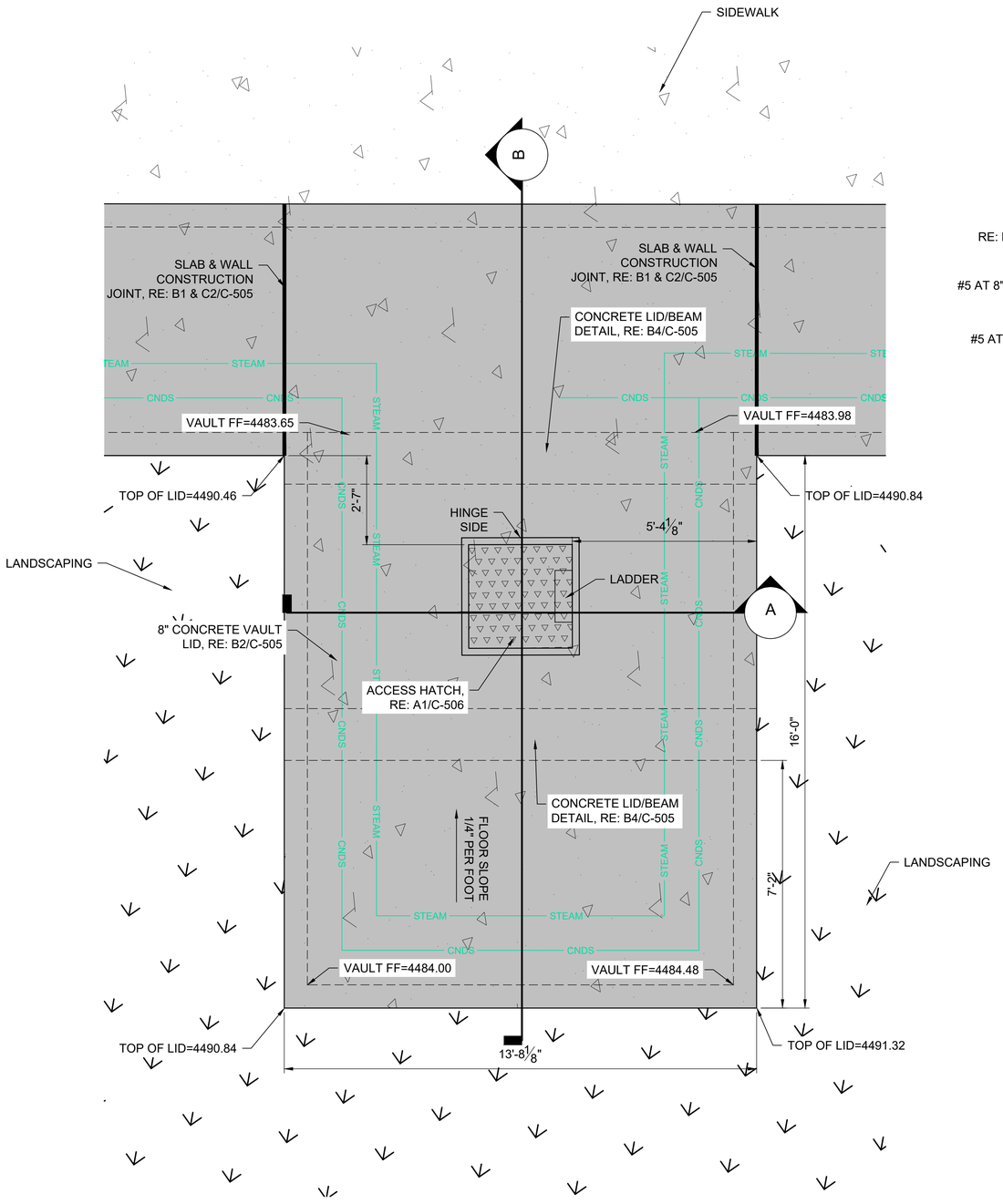
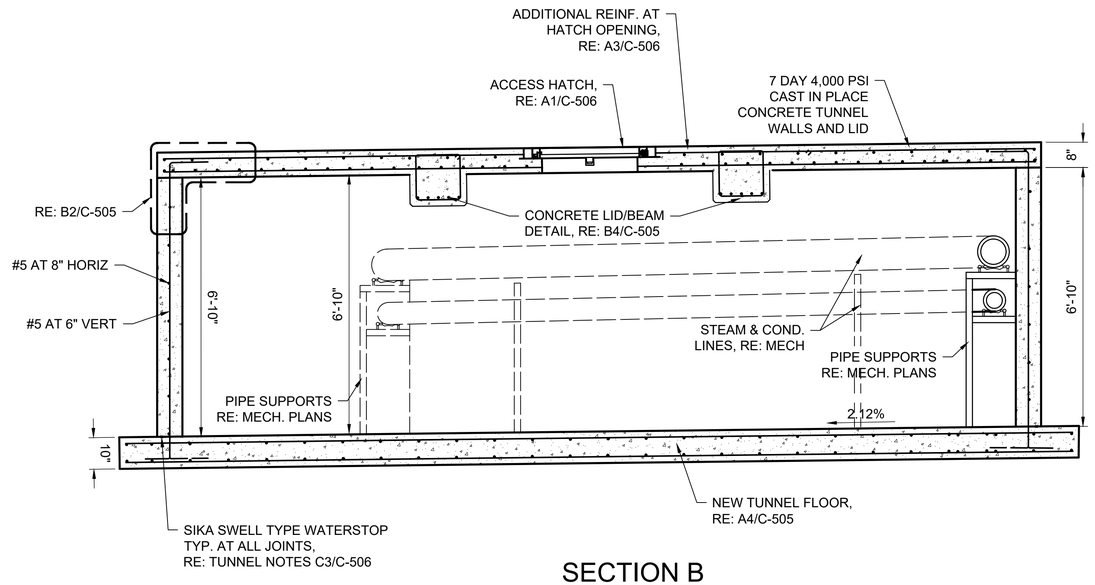
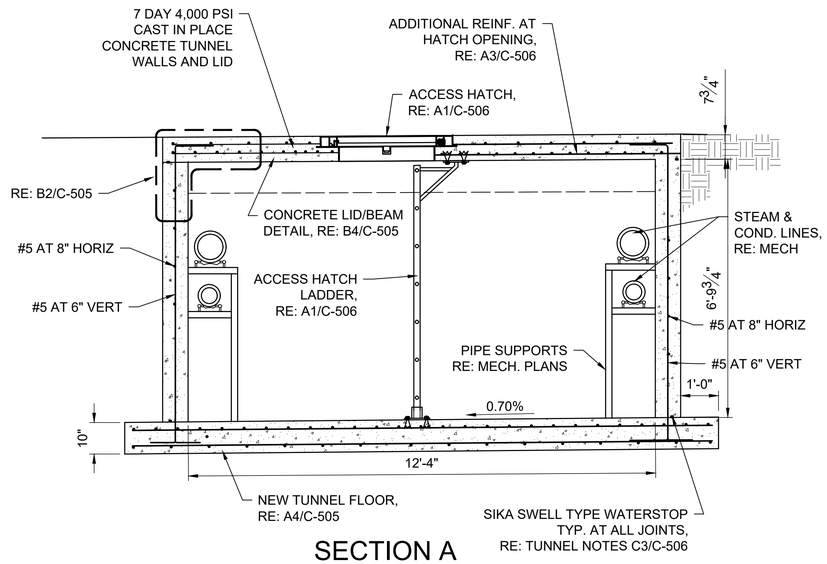




SECTION B



SECTION A

A1 ENLARGED EXPANSION LOOP VAULT B - PLAN AND SECTION DETAIL

1/2" = 1'-0"

0 1' 2' 4'

KELLER ASSOCIATES
305 North 3rd Ave, Suite A
Pocatello, Idaho 83201
(208) 238-2146

REGISTERED PROFESSIONAL ENGINEER
Prepared by: R.E.T.E.C.
RETEC/CCC/CARD
2659
8/29/2025
STATE OF IDAHO
DAVID R. KINZER

NO.	REVISIONS	DATE

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DPW PROJECT #24-246SC
ISU: REPAIR UTILITY TUNNEL, PHASE 3

IDAHO STATE UNIVERSITY

ENLARGED SITE
DETAIL-EXPANSION LOOP B

DRAWN: KJW CHECK: MBH

VERIFY SCALE: Scales based on 22"x34" prints.

1-1/2 Inches

PROJECT NO.
208106-119

SHEET NO.
C-403

J:\208106-119 ISU REPLACE UTILITY TUNNEL, PHASE 3\C_DESN_CAD\3_DESIGN\D_PLANS-11C-403.DWG LAST SAVED: 8/26/2025 8:56 AM PRINTED: 8/26/2025 9:49 AM

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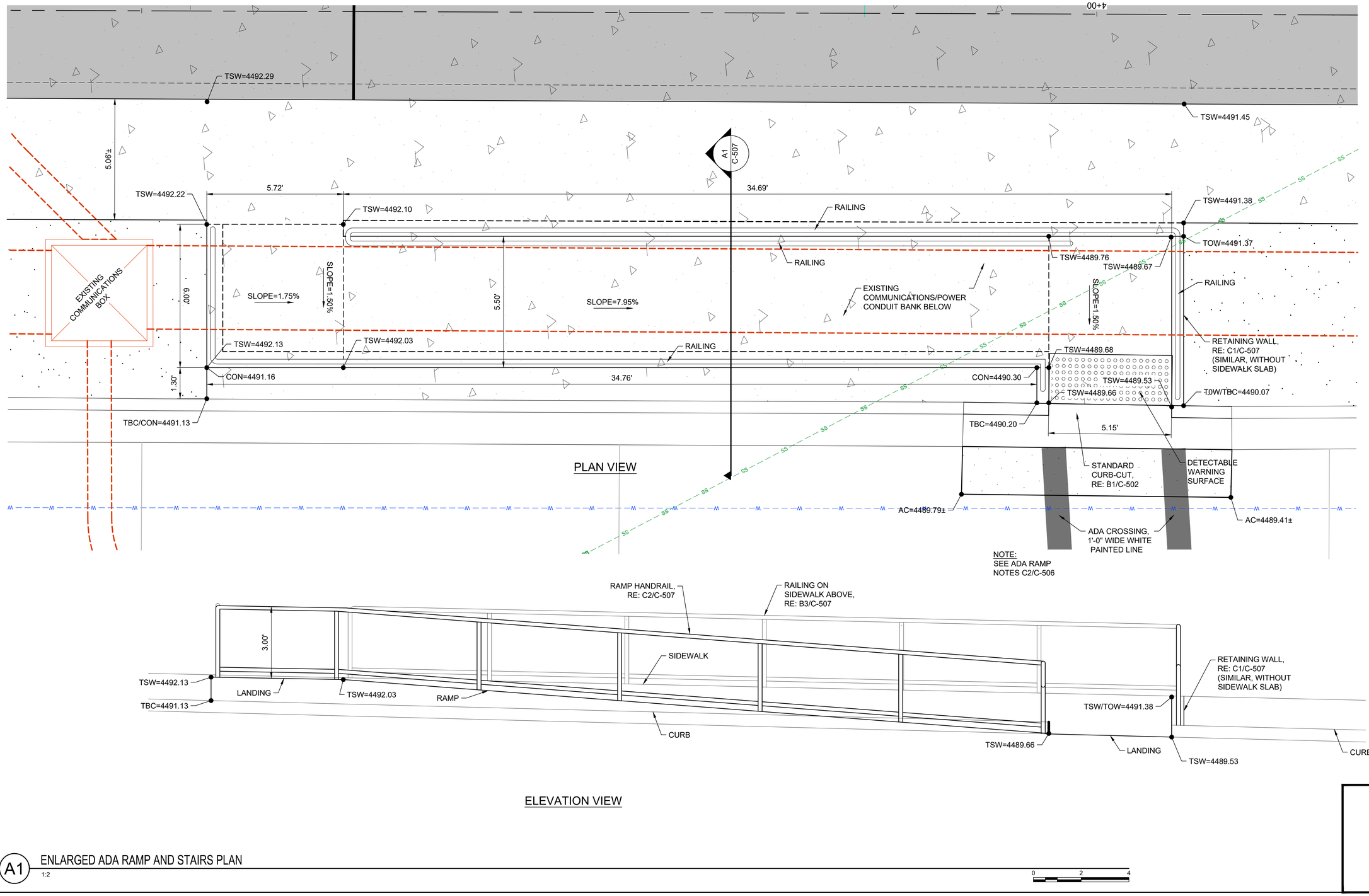

A1 ENLARGED ADA RAMP AND STAIRS PLAN

1:2

0 2 4

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305 North 3rd Ave, Suite A
Pocatello, Idaho 83201
(208) 238-2146

PROFESSIONAL ENGINEER
LICENSE
15381
8/27/2025
STATE OF IDAHO
MATTHEW B. HILL

NO.	REVISIONS	DATE

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DPW PROJECT #24-246SC
ISU: REPAIR UTILITY TUNNEL, PHASE 3

IDAHO STATE UNIVERSITY

ENLARGED SITE DETAIL

DRAWN: KJW CHECK: MBH

VERIFY SCALE: Scales based on 22"x34" prints.

1-1/2 Inches

PROJECT NO.
208106-119

SHEET NO.
C-404

PRINTED: 8/26/2025 9:50 AM
LAST SAVED: 8/26/2025 8:59 AM
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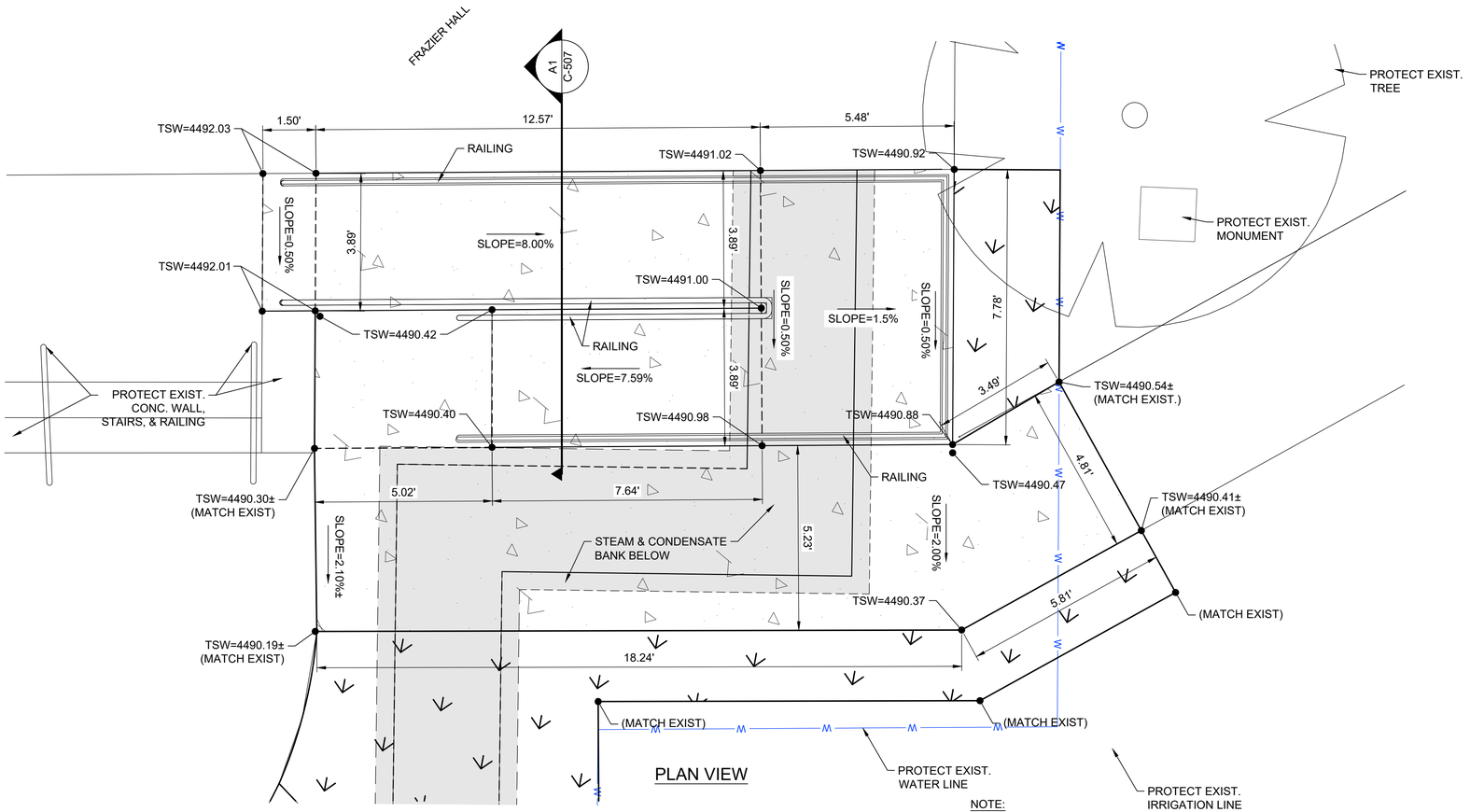
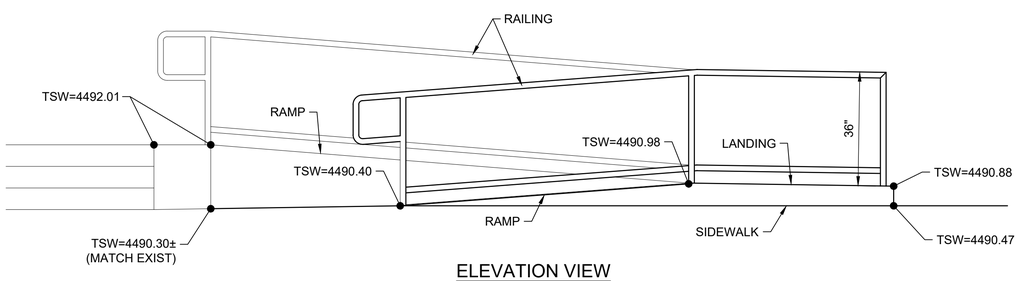


PLAN VIEW

NOTE:
SEE ADA RAMP
NOTES C2/C-506



ELEVATION VIEW

A1 ENLARGED ADA RAMP AND STAIRS PLAN
1:2

0 2 4

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DPW PROJECT #24-246SC
ISU: REPAIR UTILITY TUNNEL, PHASE 3

IDAHO STATE UNIVERSITY

ENLARGED SITE DETAIL

DRAWN: KJW CHECK: MBH

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO.
208106-119

SHEET NO.
C-405

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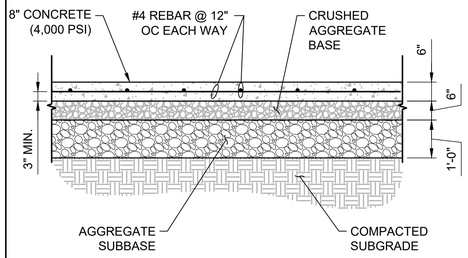
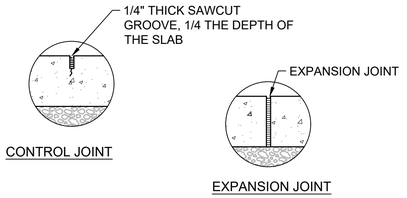
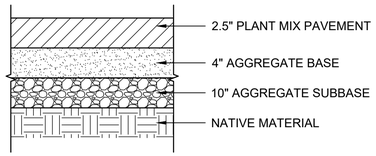




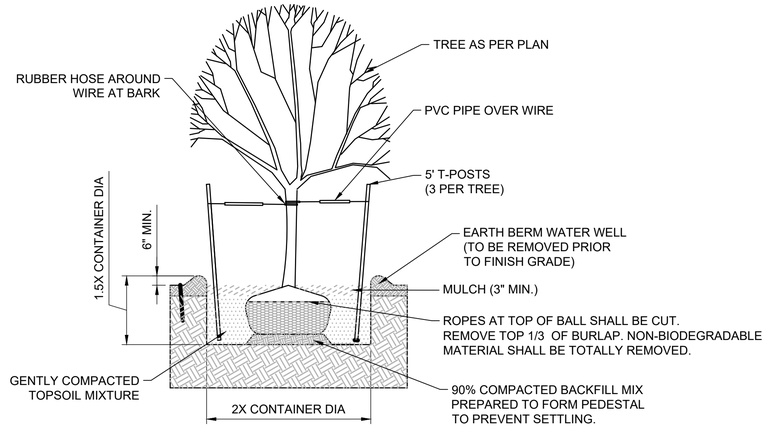
NOTES:
1. PLACE EXPANSION JOINT MATERIAL ADJACENT TO STRUCTURES AND 40 FEET MAXIMUM SPACING.
2. CONTINUOUS PLACEMENT PREFERRED, CONTROL JOINT INTERVALS AT 5 FEET MAXIMUM SPACING.
3. SEE SPECIFICATIONS FOR MATERIALS, PLACEMENT & CONSTRUCTION REQUIREMENTS.
4. PREPARE SUBGRADE IN ACCORDANCE WITH SPECIFICATIONS.

C1 HEAVY DUTY CONCRETE PAVING
1/2" = 1'-0"

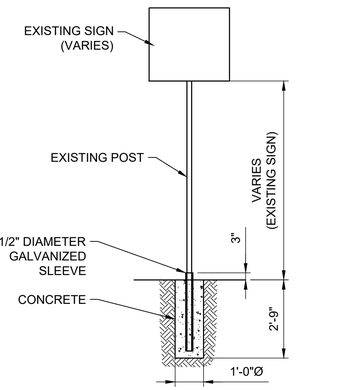


NOTES:
1. NATIVE MATERIAL: COMPACTED TO 95% OF STANDARD PROCTOR.
2. SUBBASE: 8-INCHES COMPACTED DEPTH OF AGGREGATE SUBBASE, COMPACTED TO 95% OF STANDARD PROCTOR.
3. BASE: 4-INCHES COMPACTED DEPTH OF AGGREGATE BASE COMPACTED TO 95% OF STANDARD PROCTOR.

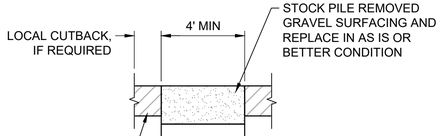
C3 PAVEMENT SECTION TYPE 1
N.T.S.



C4 TREE PLANTING DETAIL
1/2" = 1'-0"

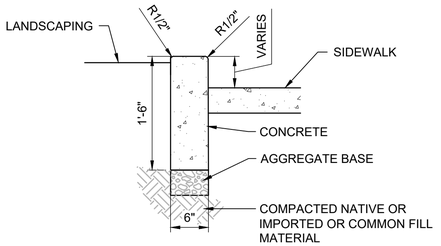


B1 REINSTALL EXISTING SIGN - TYPIAL
3/8" = 1'-0"



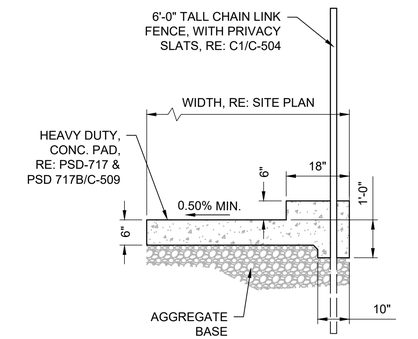
NOTES:
1. SEE SPECIFICATIONS FOR MATERIALS AND CONSTRUCTION REQUIREMENT.

B2 SURFACE REPAIR - GRAVEL
N.T.S.

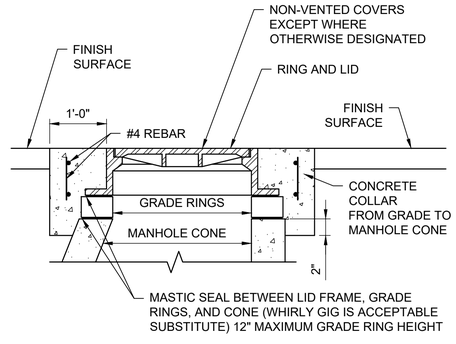


NOTES:
1. PLACE EXPANSION JOINT MATERIAL AT TERMINAL POINTS OF RADII, ADJACENT TO STRUCTURES AND 60-FEET MAXIMUM SPACING.
2. CONTINUOUS PLACEMENT PREFERRED, SCORE INTERVALS 8-FEET MAXIMUM SPACING.
3. SEE SPECIFICATIONS FOR MATERIALS, PLACEMENT & COMPACTION REQUIREMENTS.
4. ADJACENT LAWN OR LANDSCAPE SURFACES TO BE 1-INCH BELOW TOP OF CURB.

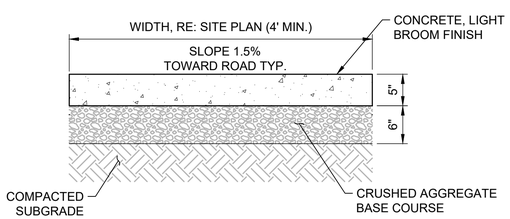
B3 EMBEDDED CURB - TYPE 'B'
1" = 1'-0"



B4 THICKENED EDGE PAD WITH CURB
1/2" = 1'-0"

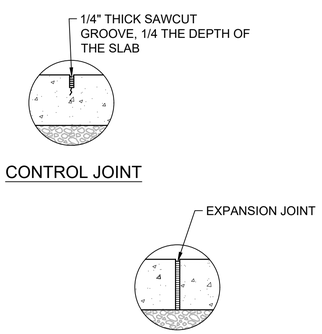


B5 CONCRETE COLLAR AT MANHOLES
3/4" = 1'-0"

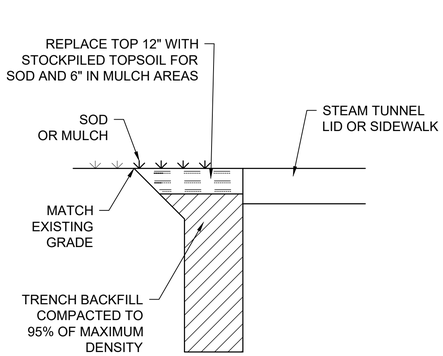


SIDEWALK EDGE

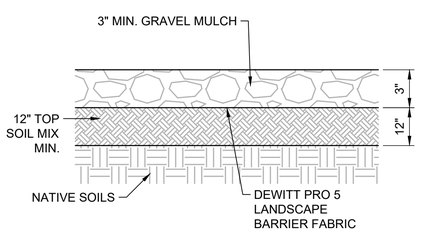
NOTES:
1. PLACE EXPANSION JOINT ADJACENT TO STRUCTURES AND 60 FEET MAXIMUM SPACING.
2. CONTINUOUS PLACEMENT PREFERRED, CONTROL JOINT INTERVALS AT 5 FEET MAXIMUM SPACING.
3. SEE SPECIFICATIONS FOR MATERIALS, PLACEMENT & CONSTRUCTION REQUIREMENTS.
4. PREPARE SUBGRADE IN ACCORDANCE WITH SPECIFICATIONS.
5. EXPANSION JOINT 1/2" PREFORMED JOINT MATERIAL (AASHTO M 213). FILL WITH JOINT SEALER TO 1/4" BELOW SURFACE.



A1 CONCRETE SIDEWALK
1" = 1'-0"



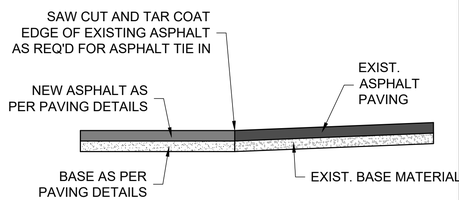
A3 TYPICAL LANDSCAPE REPAIR
N.T.S.



NOTES:

PLACE MULCH WITH AN IRRIGATION DRIP LINE INSTALLED DOWN THE CENTER OF THE STRIP FOR FUTURE PLANTINGS BY ISU. THE ROCK MULCH CAN BE OBTAINED FROM MICKELSEN CONSTRUCTION, POCATELLO PIT, AT 208-478-1482. ROCK MULCH TO BE INSTALLED IS THE LARGE (1" TO 1 1/2") BLACK AND TAN ROCK.

A4 GRAVEL MULCH DETAIL
N.T.S.



A5 ASPHALT TIE IN
N.T.S.

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8/27/2025
STATE OF IDAHO
MATTHEW B. HILL

NO.	REVISIONS	DATE

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DPW PROJECT #24-246SC
ISU: REPAIR UTILITY TUNNEL, PHASE 3

IDAHO STATE UNIVERSITY

DETAILS

DRAWN: KJW | CHECK: MBH

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO.
208106-119

SHEET NO.
C-501

J:\208106-119 ISU REPLACE UTILITY TUNNEL, PHASE 3\C_DESN_CAD\3_DESIGN\D_PLANS-1\C-501.DWG LAST SAVED: 7/21/2025 9:03 AM PRINTED: 8/26/2025 9:51 AM

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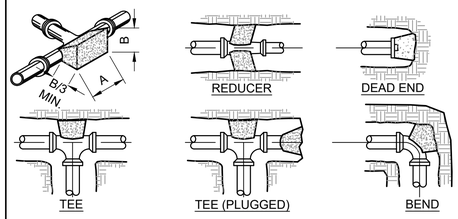
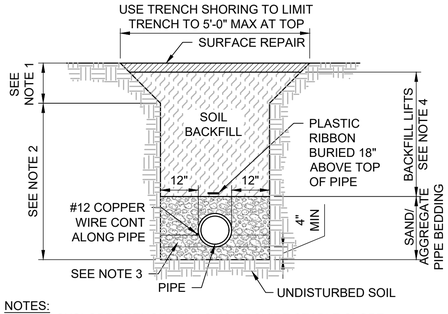


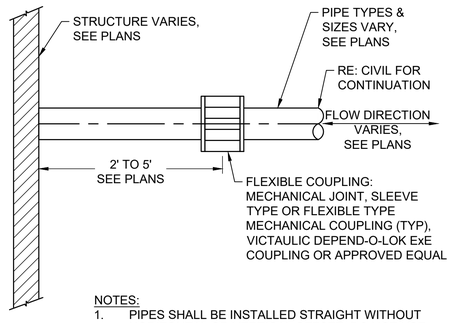
DIMENSIONS FOR THRUST BLOCKING								
FITTING SIZES	TEES & PLUGS		90° BEND		45° BEND & WYES		REDUCERS & 22½° BEND	
	A	B	A	B	A	B	A	B
4"	1'-7"	1'-2"	1'-9"	1'-6"	1'-8"	0'-10"	1'-7"	0'-6"
6"	2'-0"	1-11"	2'-5"	2'-2"	1'-10"	1'-7"	1-9"	0'-10"
8"	3-0"	3'-0"	3'-6"	3'-0"	3'-2"	1'-9"	2'-0"	1'-6"
10"	3'-6"	3'-4"	4'-0"	4-0"	3'-0"	3'-0"	2'-6"	2'-0"
12"	4'-0"	3'-10	4'-8"	4'-8"	3-8"	3'-3"	2'-6"	2-6"

C1 TYPICAL THRUST BLOCK INSTALLATION
N.T.S.



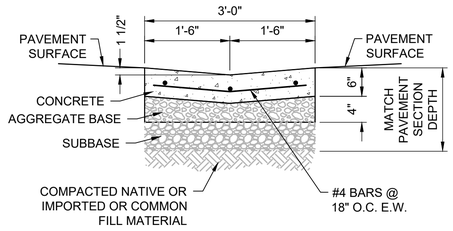
NOTES:
1. BACKSLOPE TRENCH WALLS TO PROVIDE STABLE SLOPE CONDITIONS PER OSHA REQUIREMENTS.
2. SHORE TRENCH WALLS TO MAINTAIN STABILITY OF EXCAVATION COMPLY WITH OSHA FOR SHORING.
3. HAND COMPACT UNDER HAUNCHES OF PIPE, BRING UP BACKFILL EVENLY AT EACH SIDE.
4. 6" BACKFILL LIFTS WITHIN UPPER ROW AND 8" BACKFILL LIFTS ELSEWHERE.

C2 PIPE INSTALLATION - SOIL BACKFILL
1/2" = 1'-0"



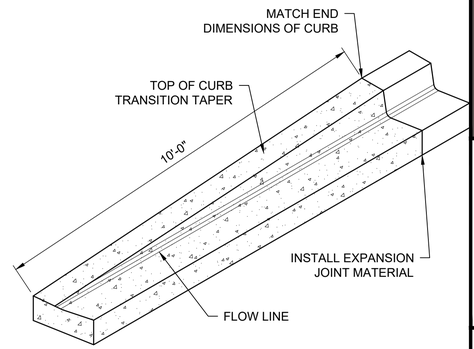
NOTES:
1. PIPES SHALL BE INSTALLED STRAIGHT WITHOUT HORIZONTAL OR VERTICAL OFFSET. DO NOT USE JOINT ROTATION TO MAKE UP MISALIGNED PIPE.

C3 FLEXIBLE COUPLING TYPE 1
N.T.S.



NOTES:
1. PLACE EXPANSION JOINT MATERIAL AT TERMINAL POINTS OF RADII, ADJACENT TO STRUCTURES AND 60-FEET MAXIMUM SPACING.
2. CONTINUOUS PLACEMENT PREFERRED, SCORE INTERVALS 8-FEET MAXIMUM SPACING.
3. SEE SPECIFICATIONS FOR MATERIALS, PLACEMENT & COMPACTION REQUIREMENTS.

C4 VALLEY GUTTER - 3 FOOT REINFORCED
3/4" = 1'-0"



C5 CURB TERMINATION - TOP OF CURB
N.T.S.

NOTES:
1. PLACE EXPANSION JOINT MATERIAL AT TERMINAL POINTS OF RADII, ADJACENT TO STRUCTURES AND 60-FEET MAXIMUM SPACING.
2. CONTINUOUS PLACEMENT PREFERRED, SCORE INTERVALS 8-FEET MAXIMUM SPACING.
3. SEE SPECIFICATIONS FOR MATERIALS, PLACEMENT & COMPACTION REQUIREMENTS.
4. ADJACENT WALKING SURFACES TO BE FLUSH WITH TOP OF CURB. ADJACENT LAWN OR LANDSCAPE SURFACES TO BE 1-INCH BELOW TOP OF CURB.

B1 STANDARD CURB & GUTTER - CUT
1-1/2" = 1'-0"

NOTE:
PIPE MAY TERMINATE AT WALL, RE: DRAWINGS

B3 EXISTING CONCRETE WALL PIPE PENETRATION
N.T.S.

B4 WALL PLUG AT DEMOLISHED PIPE
N.T.S.

B5 6 INCH BOLLARD
1/2" = 1'-0"

NOTES:
1. PLACE EXPANSION JOINT MATERIAL AT TERMINAL POINTS OF RADII, ADJACENT TO STRUCTURES AND 60-FEET MAXIMUM SPACING.
2. CONTINUOUS PLACEMENT PREFERRED, SCORE INTERVALS 8-FEET MAXIMUM SPACING.
3. SEE SPECIFICATIONS FOR MATERIALS, PLACEMENT & COMPACTION REQUIREMENTS.
4. ADJACENT WALKING SURFACES TO BE FLUSH WITH TOP OF CURB. ADJACENT LAWN OR LANDSCAPE SURFACES TO BE 1-INCH BELOW TOP OF CURB.

A1 STANDARD CURB & GUTTER
1-1/2" = 1'-0"

KEYNOYES
01 5 1/4" LID
02 24"Ø x 6" CONCRETE COLLAR
03 (2) #4 REBAR HOOPS WITH #4 VERTICALS
04 PACK VOID WITH RUBBER SILICONE
05 NO. 12 AWG. COPPER WIRE FINDER
06 VALVE
07 CAST IRON VALVE RISER
08 FINISHED GRADE
09 REDWOOD BLOCKS

A3 VALVE BOX & LID
N.T.S.

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STATE OF IDAHO
MATTHEW B. HILL

NO.	REVISIONS	DATE

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DPW PROJECT #24-246SC
ISU: REPAIR UTILITY TUNNEL, PHASE 3

IDAHO STATE UNIVERSITY

DETAILS

DRAWN: KJW CHECK: MBH

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO.
208106-119

SHEET NO.
C-502

J:\208106-119 ISU REPLACE UTILITY TUNNEL, PHASE 3\C_DESIGN\C_CAD\3_DESIGN\D_PLANS-1\C-502.DWG LAST SAVED: 8/26/2025 9:09 AM PRINTED: 8/26/2025 9:51 AM

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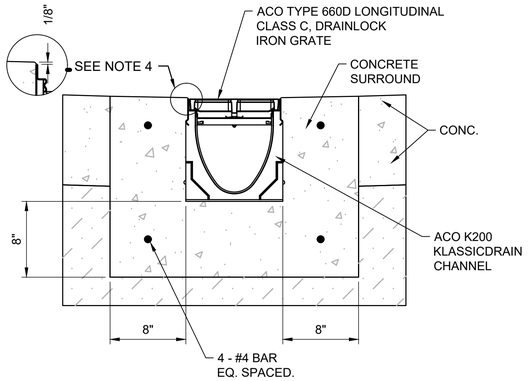


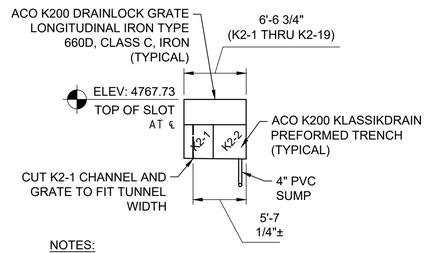
NOTES:

1. THE SURFACE DRAINAGE SYSTEM SHALL BE POLYMER CONCRETE K200 CHANNEL SYSTEM WITH GALVANIZED STEEL FRAME AND LONGITUDINAL IRON GRATE AS MANUFACTURED BY ACO POLYMER PRODUCTS, INC.
2. MINIMUM CONCRETE STRENGTH OF 4,000 PSI CONCRETE SHOULD BE VIBRATED TO ELIMINATE AIR POCKETS.
3. EXPANSION JOINTS AT 32-FOOT SPACING MAX. AND CONTRACTION CONTROL JOINTS AT 8-FOOT MAX SPACING. REINFORCEMENT ARE RECOMMENDED TO PROTECT CHANNEL AND CONCRETE SURROUND. (INSTALL EXPANSION AND CONTRACTION JOINTS SIMILAR TO D3/C-501)
4. THE FINISHED LEVEL OF THE CONCRETE SURROUND MUST BE APPROX. 1/8" [3mm] ABOVE THE TOP OF THE CHANNEL EDGE.
5. INSTALL ACO K200 CLASSIC DRAIN CHANNEL AND IRON GRATE AS PER MANUFACTURER RECOMMENDATIONS.

C1 ACO KLASSICDRAIN SECTION

1-1/2" = 1'-0"

0 1" 2"

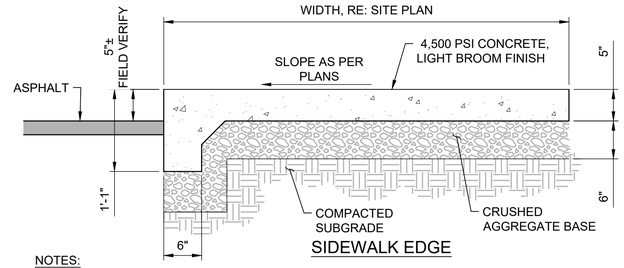


NOTES:

1. INSTALL ACO K200 CLASSIC DRAIN CHANNELS AND K200 DRAINLOCK GRATE AS PER MANUFACTURER RECOMMENDATIONS.
2. THE SURFACE DRAINAGE SYSTEM SHALL BE POLYMER CONCRETE K200 CHANNEL SYSTEM WITH GALVANIZED STEEL EDGE RAILS AND IRON GRATE AS MANUFACTURED BY ACO POLYMER PRODUCTS, INC.

C3 ACO DRAIN PROFILE

N.T.S.



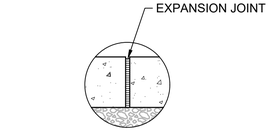
SIDEWALK EDGE

NOTES:

1. PLACE EXPANSION JOINT ADJACENT TO STRUCTURES AND 40 FEET MAXIMUM SPACING.
2. CONTINUOUS PLACEMENT PREFERRED, CONTROL JOINT INTERVALS AT 5 FEET MAXIMUM SPACING.
3. SEE SPECIFICATIONS FOR MATERIALS, PLACEMENT & CONSTRUCTION REQUIREMENTS.
4. PREPARE SUBGRADE IN ACCORDANCE WITH SPECIFICATIONS.
5. EXPANSION JOINT 1/2" PREFORMED JOINT MATERIAL (AASHTO M 213). FILL WITH JOINT SEALER TO 1/4" BELOW SURFACE.

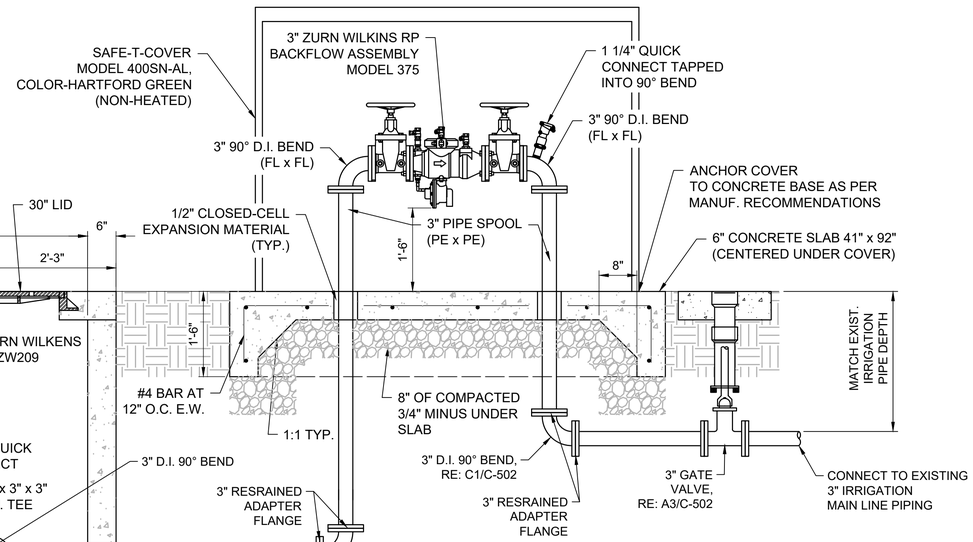
A4 CONCRETE SIDEWALK - THICKENED EDGE

N.T.S.



EXPANSION JOINT

CONTROL JOINT

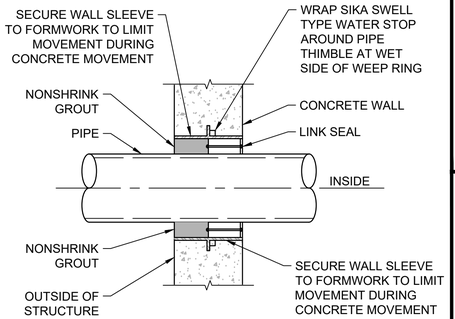


NOTE:

1. BACKFLOW ASSEMBLY IS SHOWN ROTATED 90-DEGREES FOR CLARITY. SEE SHEET C-102 FOR LAYOUT.
2. SLOPE PIPES FROM WATER LINE CONNECTION SO AS TO DRAIN IN NEW VAULT.

A1 3" RP BACKFLOW ASSEMBLY & VAULT

N.T.S.



NOTE:
PIPE MAY TERMINATE AT WALL, RE: DRAWINGS

B5 NEW CONCRETE WALL PIPE PENETRATION

N.T.S.

KELLER ASSOCIATES
305 North 3rd Ave, Suite A
Pocatello, Idaho 83201
(208) 238-2146

PROFESSIONAL ENGINEER
LICENSE NUMBER
15381
8/27/2025
STATE OF IDAHO
MATTHEW B. HILL

NO.	REVISIONS	DATE

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DPW PROJECT #24-246SC
ISU: REPAIR UTILITY TUNNEL, PHASE 3

IDAHO STATE UNIVERSITY

DETAILS

DRAWN: KJW CHECK: MBH

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO.
208106-119

SHEET NO.
C-503

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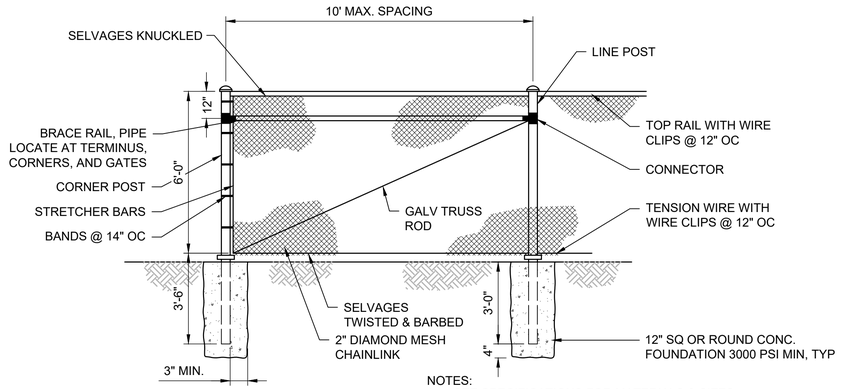
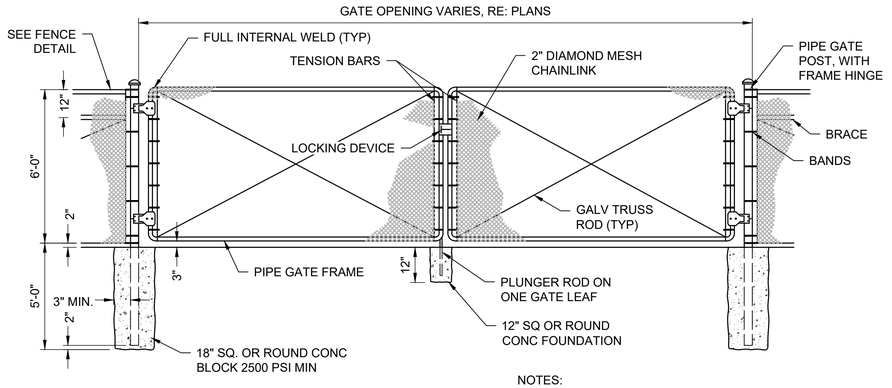


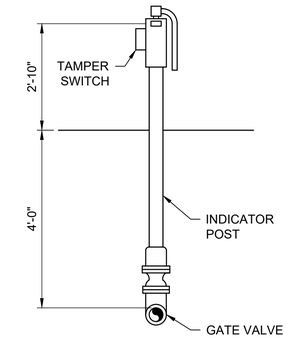
NOTES:
1. SEE SPECIFICATIONS FOR MATERIALS & SIZES.
2. ALL FABRIC, POSTS, AND FITTINGS TO BE COATED BLACK
3. INSTALL PRIVACY SLATS, COLOR BY OWNER.

C1 FENCE - CHAIN LINK
N.T.S.

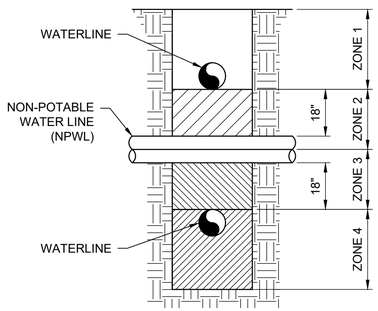


NOTES:
1. SEE SPECIFICATIONS FOR MATERIALS & SIZES.
2. SEE FENCE DETAIL FOR BRACING AT GATE.
3. ALL FABRIC, POSTS, AND FITTINGS TO BE COATED BLACK.
3. INSTALL PRIVACY SLATS, COLOR BY OWNER.

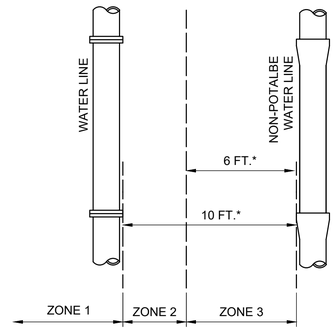
C3 GATE - CHAIN LINK DOUBLE SWING
N.T.S.



C5 GATE VALVE WITH POST INDICATOR
N.T.S.



VERTICAL SEPARATION REQUIREMENTS



HORIZONTAL SEPARATION REQUIREMENTS

ZONE 1: A) WATER AND NPWL MUST BE SEPERATED BY AT LEAST 18" AND B) ONE FULL, UNCUT LENGTH OF BOTH PWL AND NPWL PIPE MUST BE CENTERED ON THE CROSSING SO THAT THE JOINTS ARE AS FAR AS POSSIBLE FROM THE CROSSING.

ZONE 2: A) ONE FULL, UNCUT LENGTH OF BOTH PWL AND NPWL PIPE MUST BE CENTERED ON THE CROSSING SO THAT THE JOINTS ARE AS FAR AS POSSIBLE FROM THE CROSSING.

AND EITHER B) NPWL MUST BE CONSTRUCTED TO WATER MAIN STANDARDS AND PRESSURE TESTED FOR WATER TIGHTNESS FOR A HORIZONTAL DISTANCE OF 10 FEET ON BOTH SIDES OF THE CROSSING.

OR C) EITHER THE NPWL OR WATER LINE OR BOTH MUST BE ENCASED WITH A SLEEVEING MATERIAL ACCEPTABLE TO DEQ FOR A HORIZONTAL DISTANCE OF 10 FEET ON BOTH SIDES OF THE CROSSING.

ZONE 3: SAME REQUIREMENTS AS ZONE 2 EXCEPT THE NPWL MUST ALSO BE SUPPORTED ABOVE THE CROSSING TO PREVENT SETTLING.

ZONE 4: SAME REQUIREMENTS AS ZONE 1 EXCEPT THE NPWL MUST ALSO BE SUPPORTED ABOVE THE CROSSING TO PREVENT SETTLING.

ZONE 1: A) NO SPECIAL REQUIREMENTS.

ZONE 2: A) NO SPECIAL REQUIREMENTS FOR POTABLE OR NON-POTABLE SERVICES.

B) WATER AND NPWL SEPARATED BY AT LEAST 6 FEET AT OUTSIDE WALLS.

AND C) WATER AT LEAST 18 INCHES HIGHER IN ELEVATION THAN THE NPWL.

AND EITHER D) NPWL CONSTRUCTED TO WATER MAIN STANDARDS AND PRESSURE TESTED FOR WATER TIGHTNESS.

OR E) SITE SPECIFIC REQUIREMENTS APPROVED BY DEQ.

ZONE 3: NOT ALLOWED WITHOUT DEQ WAIVER.

NOTE: SANITARY SEWER FORCE MAINS MUST HAVE MIN. 10' HORIZONTAL SEPARATION AND 18" VERTICAL SEPARATION. ZONE 2 AND ZONE 3 PLACEMENTS ARE NOT ALLOWED WITHOUT A WAIVER GRANTED BY DEQ.

A1 POTABLE / NON-POTABLE WATER CROSSING
N.T.S.

KEYNOTES

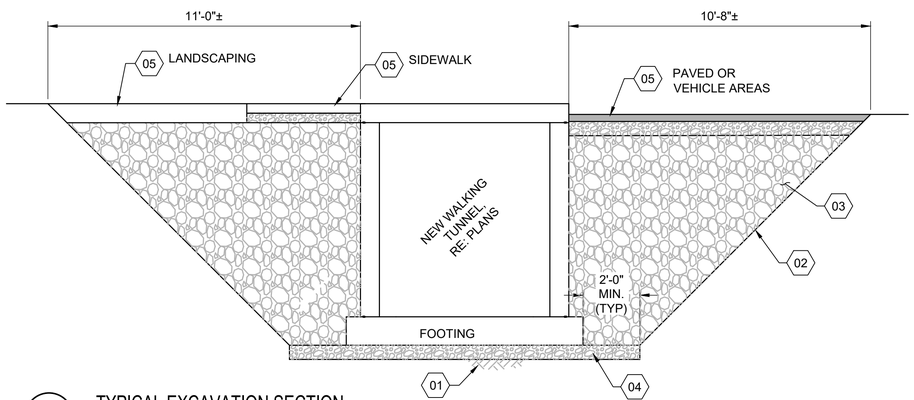
01 MOISTURE CONDITION & COMPACT DISTURBED NATIVE MATERIAL. PROOF ROLL COMPACTED MATERIAL WITH A 10 TON EQUIVALENT ROLLER. COMPACTION IS ACCEPTABLE WHEN CHANGES IN DENSITY BETWEEN PASSES RESULTS IN LESS THAN 0.5 PCF CHANGE OR COMPACT TO 75% OF ASTM D1557.

02 SLOPE PER OSHA REQUIREMENTS, TYPICAL

03 4-INCH AGGREGATE SUBBASE, COMPACT TO 95% IN ACCORDANCE WITH ASTM D1557, COMPACT IN 1-FOOT MAXIMUM LOOSE-LIFT THICKNESSES.

04 6" OF 3/4-INCH CRUSHED AGGREGATE, COMPACT TO 95% IN ACCORDANCE WITH ASTM D1557.

05 SEE SITE PLAN FOR SURFACE FINISH REQUIREMENTS.



A3 TYPICAL EXCAVATION SECTION
3/8" = 1'-0"

NOTES:
1. THIS TYPICAL SECTION SHALL BE APPLIED TO ALL STRUCTURES CONSTRUCTED IN THIS PROJECT
2. THIS IS A TYPICAL SECTION SO IS GENERAL TO THE PROJECT. EXCAVATION LIMITS MAY VARY DEPENDING APPROVED METHODS.

B5 SADDLE TAPPING TEE AND VALVE
N.T.S.

KELLER ASSOCIATES
305 North 3rd Ave, Suite A
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PROFESSIONAL ENGINEER
LICENSE NUMBER
15381
8/27/2025
STATE OF IDAHO
MATTHEW B. HILL

NO.	REVISIONS	DATE

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DPW PROJECT #24-246SC
ISU: REPAIR UTILITY
TUNNEL, PHASE 3

IDAHO STATE UNIVERSITY

DETAILS

DRAWN: KJW | CHECK: MBH

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO.
208106-119

SHEET NO.
C-504

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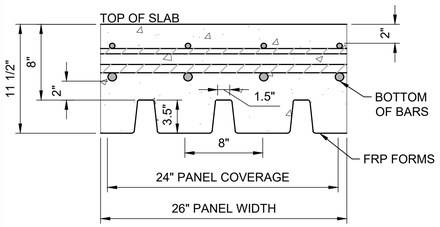
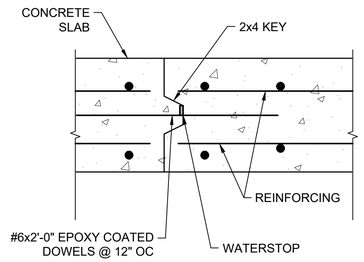
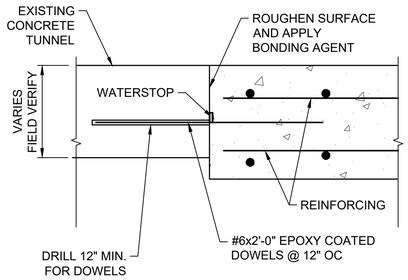


C1 STAY IN PLACE FORM DETAIL
N.T.S.

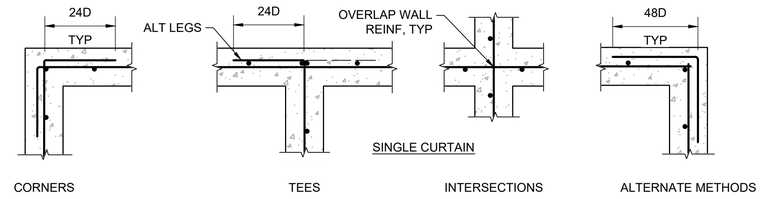


C2 SLAB CONSTRUCTION JOINT
N.T.S.



NOTE:
1. DOWELS ARE TO BE PLACED IN DECKING, WALLS, AND FLOOR AT NEW TO EXISTING TUNNEL CONNECTIONS
2. EXISTING CONCRETE THICKNESS VARIES AND MAY NOT MATCH NEW CONCRETE THICKNESS.

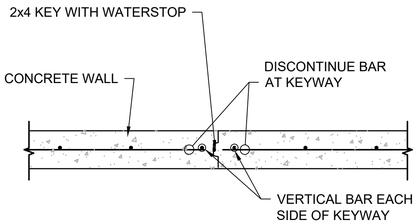
C3 NEW TUNNEL TO EXISTING TUNNEL CONNECTION
N.T.S.



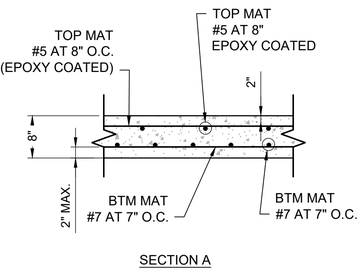
NOTES:
1. ALT METHOD MAY REPLACE HOOKED END WITH CORNER REINF AS SHOWN ON DETAIL
2. 'D' IN DIMENSION INDICATES BAR DIAMETER

C4 REINFORCING CONCRETE WALL INTERSECTIONS
3/4" = 1'-0"

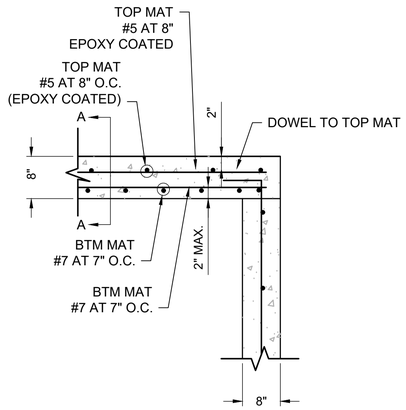
0 1' 2' 3'



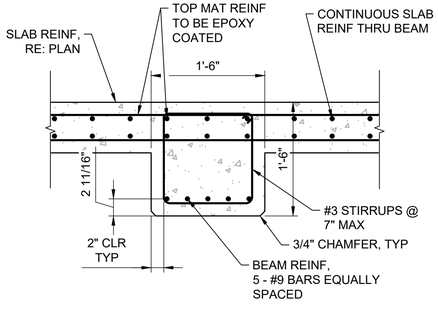
B1 VERTICAL WALL CONSTRUCTION JOINT
N.T.S.



SECTION A

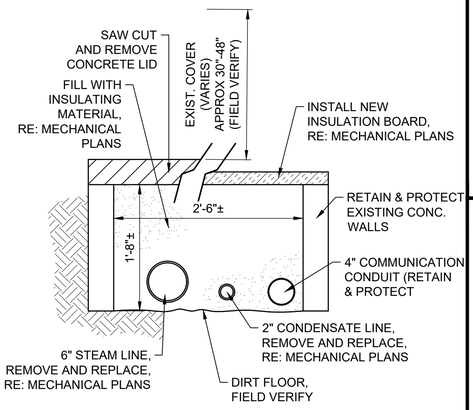


B2 EXPANSION LOOP VAULT LID AND WALL CONNECTION
N.T.S.

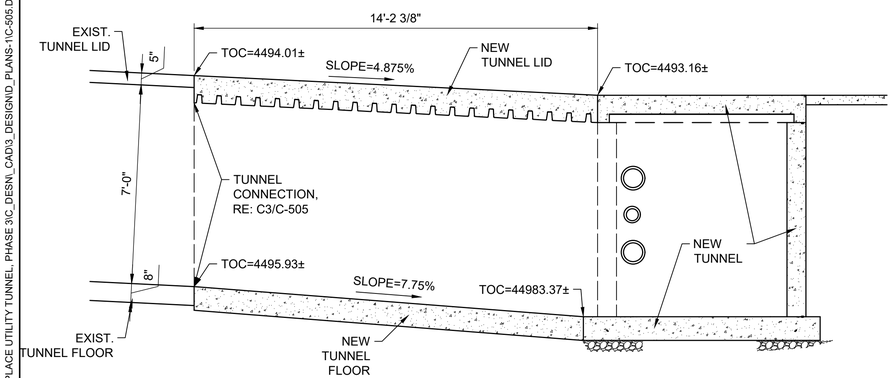


B4 SLAB AT CONCRETE BEAM
1" = 1'-0"

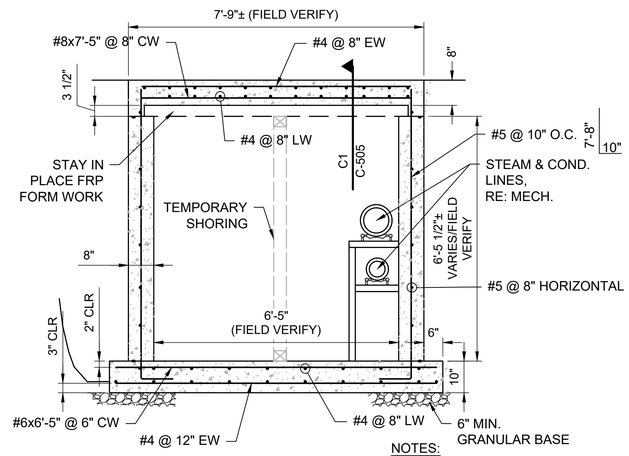
0 1/2" 1' 2'



B5 STEAM/CONDENSATE BANK SECTION
N.T.S.

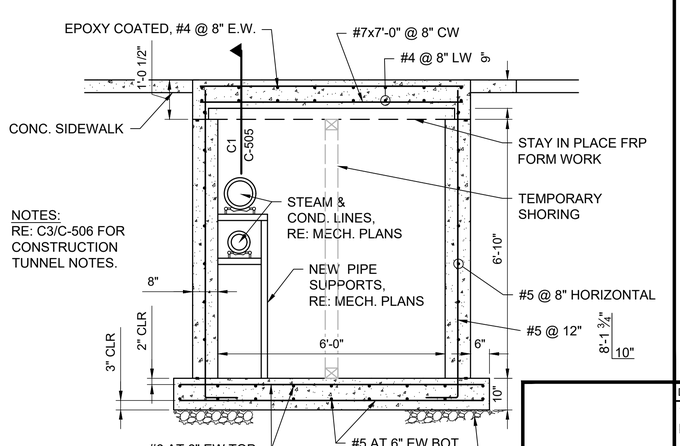


A1 NEW TUNNEL TO EXISTING BUSINESS ADMINISTRATION TUNNEL CONNECTION SECTION
N.T.S.



NOTES:
RE: C3/C-506 FOR CONSTRUCTION TUNNEL NOTES.

A3 BUSINESS ADMIN TUNNEL SECTION
N.T.S.



NOTES:
RE: C3/C-506 FOR CONSTRUCTION TUNNEL NOTES.

A4 NEW TUNNEL SECTION
N.T.S.

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(208) 238-2146

REGISTERED PROFESSIONAL ENGINEER
DAVID R. KINZER
LATECMSCCFCAM07
2659
8/29/2025
STATE OF IDAHO

NO.	REVISIONS	DATE

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DPW PROJECT #24-246SC
ISU; REPAIR UTILITY TUNNEL, PHASE 3

IDAHO STATE UNIVERSITY

TUNNEL SECTION DETAILS

DRAWN: KJW CHECK: MBH

VERIFY SCALE: Scales based on 22"x34" prints.

1-1/2 Inches

PROJECT NO.
208106-119

SHEET NO.
C-505

J:\208106-119 ISU REPLACE UTILITY TUNNEL, PHASE 3\C_DESN_CAD\3_DESIGN\D_PLANS-11C-505.DWG LAST SAVED: 8/26/2025 9:13 AM PRINTED: 8/26/2025 10:34 AM

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NOTES:

1. GUARDRAIL SHALL BE PROVIDED AT STAIRS AND OPEN SIDED WALKING SURFACES WHEN THEY ARE ELEVATED MORE THAN 30" ABOVE GRADE OR ADJACENT CONSTRUCTION.
2. GUARDRAIL MATERIAL
   a. FABRICATE GUARDRAIL FROM ASTM A53 GRADE B STEEL PIPE.
   b. GALVANIZE GUARDRAIL AFTER FABRICATION IN ACCORDANCE WITH ASTM A123.
   c. USE ZINC PHOSPHATE PRETREATMENT BEFORE FINAL COATING.
   d. APPLY POLYESTER POWER COAT USING DEGASSING GRADE RESIN.
4. HANDRAIL SHALL BE CONTINUOUS THE FULL LENGTH OF THE STAIR.
5. HANDRAIL EXTENSIONS SHALL BE PROVIDED AT TOP AND BOTTOM OF STAIRS.
6. WALL MOUNTED HANDRAILS SHALL BE SINGLE RAILS WITH TOP OF RAIL AT 2'-10" HEIGHT ABOVE LANDINGS OR TREAD NOSING.
7. ALL RAIL SHALL BE FIXED UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
8. PLACE CENTER OF EMBEDDED POSTS 4" FROM EDGE OF CONCRETE AND 6" FROM FRONT EDGE OF CONCRETE STAIR NOSING UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
9. PLACE GUARDRAIL POSTS OPPOSITE EACH OTHER WHERE RAILINGS ARE PARALLEL.
10. PROVIDE SLIP JOINTS AT 24' MAX CENTERS FOR EXPANSION OF RAIL LOCATE RAIL SLIP JOINTS AT FACE OF POST. GAP AT TIME OF INSTALLATION SHALL BE BASED ON TEMPERATURE OF GUARDRAIL (3/8" GAP AT 25° F, 0" GAP AT 100° F). AT CONCRETE EXPANSION JOINTS, PROVIDE MINIMUM OR 1" GAP IN SLIP JOINTS BUT NOT LESS THAN WIDTH OF CONCRETE EXPANSION JOINT. INSERT SLEEVES SHALL BE LONG ENOUGH TO ALLOW FOR THE FULL RANGE OF MOVEMENT. **RE: C5/C-506**
11. MATERIAL FOR SLIP JOINT SHALL BE OF THE SAME MATERIAL AS THE GUARDRAIL.
12. **ALL RAILS TO MEET ADA & IBC STANDARDS FOR MAXIMUM SIZE OF 2" OUTSIDE DIAMETER.**

C1 GUARDRAIL / HANDRAIL NOTES
N.T.S.

ADA RAMP NOTES:

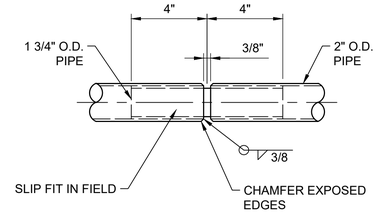
1. FINISH CONCRETE WITH A COARSE BROOM SURFACE PERPENDICULAR TO THE SLOPE IN RAMP, LANDING AND FLARE AREAS.
2. PLACE PREFORMED EXPANSION JOINT FILLER BETWEEN ADA RAMP CONSTRUCTION AND OTHER CONCRETE POURS.
3. LANDINGS SHALL HAVE ABSOLUTE MINIMUM DIMENSIONS OF 4'-0" x 4'-0" AND ABSOLUTE MAXIMUM SLOPE OF 2% IN ALL DIRECTIONS.
4. THE DETECTABLE WARNING SURFACE TILES SHALL BE CAST IN PLACE, YELLOW, REPLACEABLE, COMPOSITE SHELL TACTILE WARNING SURFACE TILES INSTALLED 24" DEEP ALONG THE FULL WIDTH OF THE PEDESTRIAN RAMP.

C2 ADA RAMP NOTES
N.T.S.

TUNNEL NOTES:

1. NO HEAVY EQUIPMENT, TRUCKS, BACKHOES ETC. SHOULD BE PLACED OVER TOP OF TUNNEL, UNTIL CONCRETE REACHES FULL STRENGTH.
2. ALL JOINTS TO BE SEALED WITH MASTIC JOINT SEAL WITH BUTYL COMPOUND PLASTIC WRAP.
3. EXTERIOR WALL OF TUNNEL TO BE SEALED WITH A COLD TAR / ASPHALTIC COATING.
4. PROVIDE PROTECTION & SUPPORT OF EXISTING POWER, CABLE, AND COMMUNICATIONS LINES ETC. DURING DEMOLITION OF EXISTING AND CONSTRUCTION OF NEW.
5. EXISTING UTILITIES SUCH AS POWER, COMMUNICATIONS, WATER, SEWER, STORM DRAIN, ETC.TO REMAIN IN SERVICE THROUGH ENTIRETY OF PROJECT.
6. ALL CONCRETE TO BE F'c=4,000 PSI MIN. @ 28 DAYS.
7. TUNNEL AND VAULT HAS BEEN DESIGNED FOR HS-20 LOADING.
8. PLACE SIKA SWELL TYPE WATERSTOP AT ALL HORIZONTAL AND VERTICAL JOINTS. NEW CONCRETE TO NEW CONCRETE AND NEW CONCRETE TO EXISTING CONCRETE.
9. SEE ELECTRICAL AND MECHANICAL PLANS FOR MECHANICAL AND ELECTRICAL DETAILS.
10. WHEN CONNECTING TO EXISTING TUNNEL LID, DO A TEST DRILL HOLE TO CHECK THICKNESS OF SLAB PRIOR TO NEW BAR PLACEMENT. IF LESS THAN 6" CONTACT ENGINEER OF RECORD.
11. DO NOT BACK FILL TUNNEL WALLS UNTIL THE TUNNEL ROOF HAS BEEN PLACED AND REACHED 100% OF THE DESIGN COMPRESSION STRENGTH.
12. TOP MAT OF REBAR IN TUNNEL LID AND EXPANSION LOOP VAULT TO BE EPOXY COATED.
13. BEND BARS IN ACCORDANCE WITH ACI 318. LAP #5 BARS 30". LAP #4 BARS 24". LAP #4 COATED BARS 30".
14. PLACE CONSTRUCTION JOINTS IN WALL AND TOP AND BOTTOM SLABS AT 12'-0" OC. WALL, FLOOR, AND LID JOINTS TO BE LINED UP, RE: B1 & C2/C-504
15. FOR REINFORCING AT TUNNEL WALL INTERSECTIONS SEE DETAIL C4/C-505.

C3 TUNNEL NOTES
N.T.S.

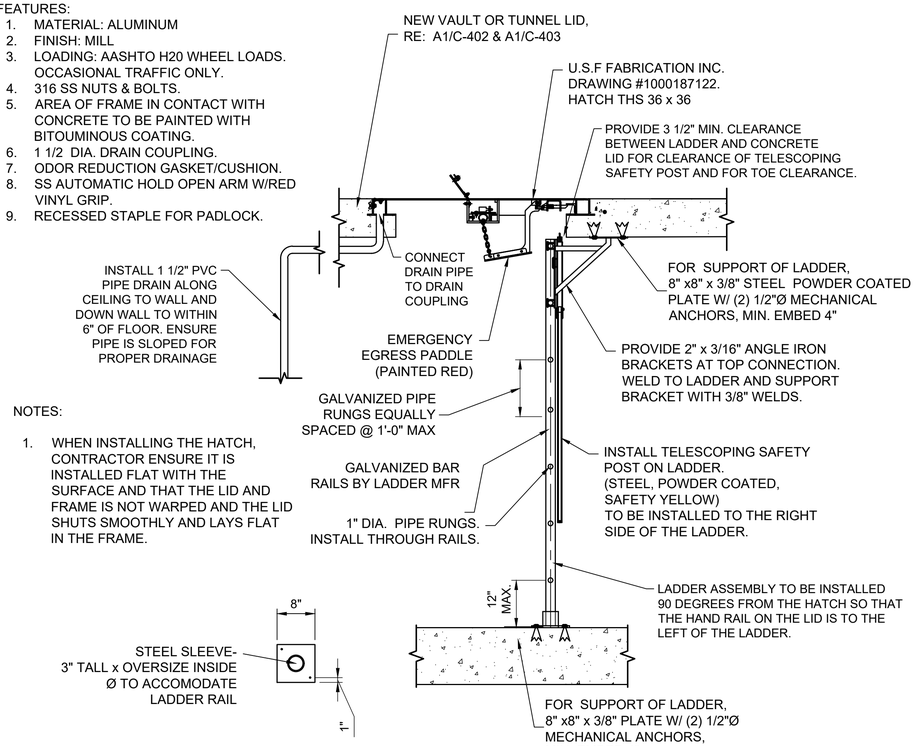


C5 RAIL TO RAIL SPLICE
3" = 1'-0"

NOTES:

SELECTED FEATURES:
1. SS GAS SHOCKS
2. EMERGENCY EGRESS PADDLE
3. HANDRAIL
4. BITUMINOUS COATING

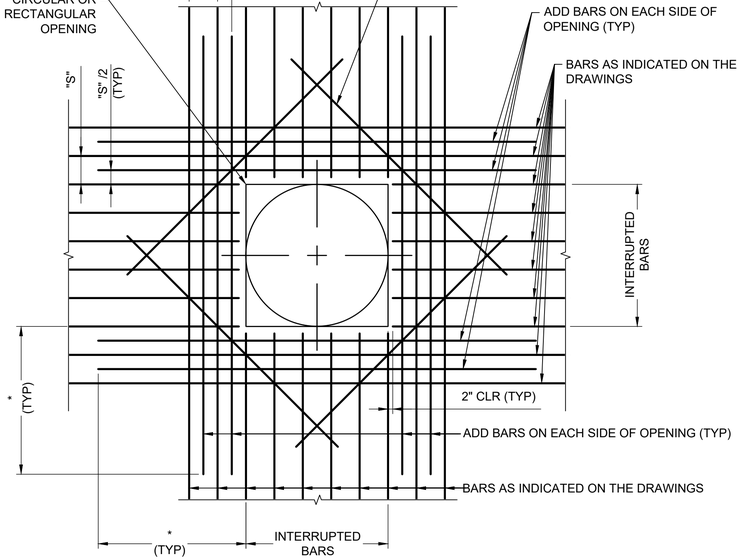
FEATURES:
1. MATERIAL: ALUMINUM
2. FINISH: MILL
3. LOADING: AASHTO H20 WHEEL LOADS. OCCASIONAL TRAFFIC ONLY.
4. 316 SS NUTS & BOLTS.
5. AREA OF FRAME IN CONTACT WITH CONCRETE TO BE PAINTED WITH BITOUMINOUS COATING.
6. 1 1/2 DIA. DRAIN COUPLING.
7. ODOR REDUCTION GASKET/CUSHION.
8. SS AUTOMATIC HOLD OPEN ARM W/RED VINYL GRIP.
9. RECESSED STAPLE FOR PADLOCK.



NOTES:

1. WHEN INSTALLING THE HATCH, CONTRACTOR ENSURE IT IS INSTALLED FLAT WITH THE SURFACE AND THAT THE LID AND FRAME IS NOT WARPED AND THE LID SHUTS SMOOTHLY AND LAYS FLAT IN THE FRAME.

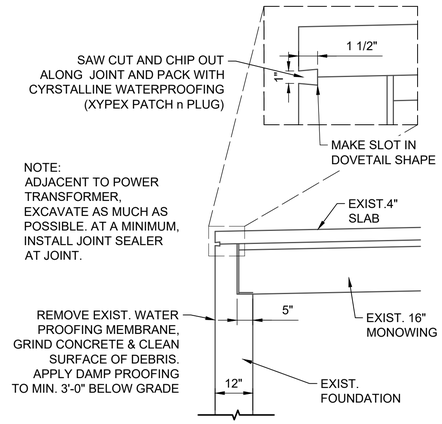
A1 TUNNEL ACCESS HATCH AND LADDER DETAIL
N.T.S.



NOTES:
1. AREA OF ADD BARS AT EACH EDGE OF OPENING IN EACH DIRECTION SHALL MATCH 1/2 THE CROSS SECTIONAL AREA OF THE INTERRUPTED BARS.
2. PROVIDE STANDARD ACI HOOKS ON BARS IF STRAIGHT EXTENSION, PAST THE OPENING, CANNOT BE ACHIEVED.
3. PLACE ADD BARS IN SAME PLANES AS INDICATED REINFORCING.
4. PLACE #5 DIAGONAL BARS UNDER INDICATED REINFORCING.

* DIMENSION EQUALS OPENING DIMENSION MEASURED PERPENDICULAR TO ADD BARS PLUS LAP SPLICE LENGTH.

A3 ADDITIONAL REINFORCING AT OPENINGS IN CONCRETE SLABS OR WALLS
N.T.S.



B5 FOUNDATION WATER PROOFING REPAIR
N.T.S.

KELLER ASSOCIATES
305 North 3rd Ave, Suite A
Pocatello, Idaho 83201
(208) 238-2146

REGISTERED PROFESSIONAL ENGINEER
2659
8/29/2025
STATE OF IDAHO
DAVID R. KINZER

NO.	REVISIONS	DATE

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DPW PROJECT #24-246SC
ISU; REPAIR UTILITY TUNNEL, PHASE 3

IDAHO STATE UNIVERSITY

TUNNEL SECTION DETAILS

DRAWN: KJW | CHECK: MBH

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO.
208106-119

SHEET NO.
C-506

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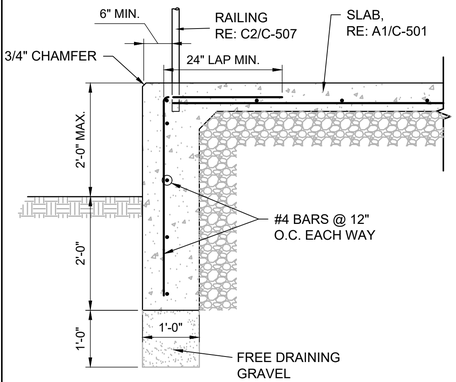
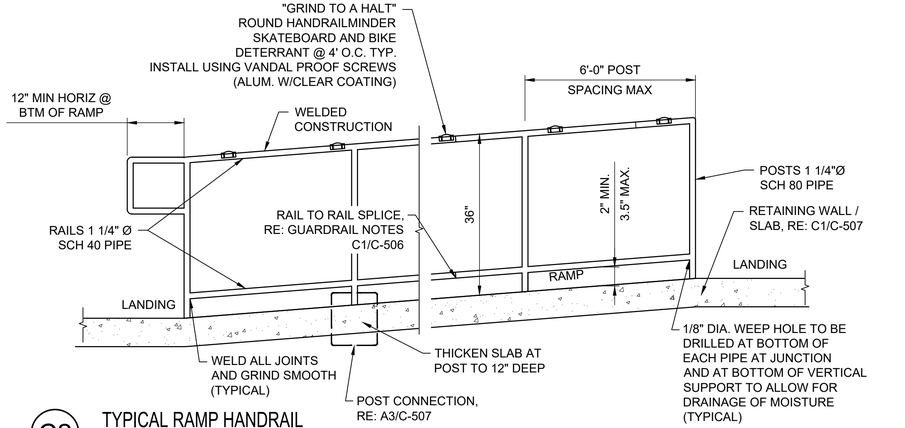
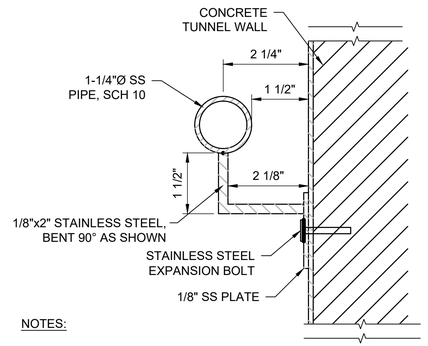


C1 THICKENED EDGE SLAB WITH STEM WALL
12" = 1'-0" 0 1" 2"



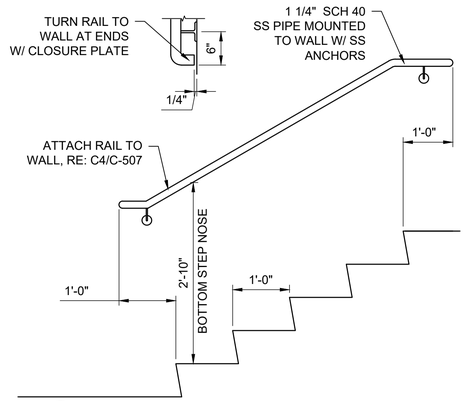
C2 TYPICAL RAMP HANDRAIL
N.T.S.



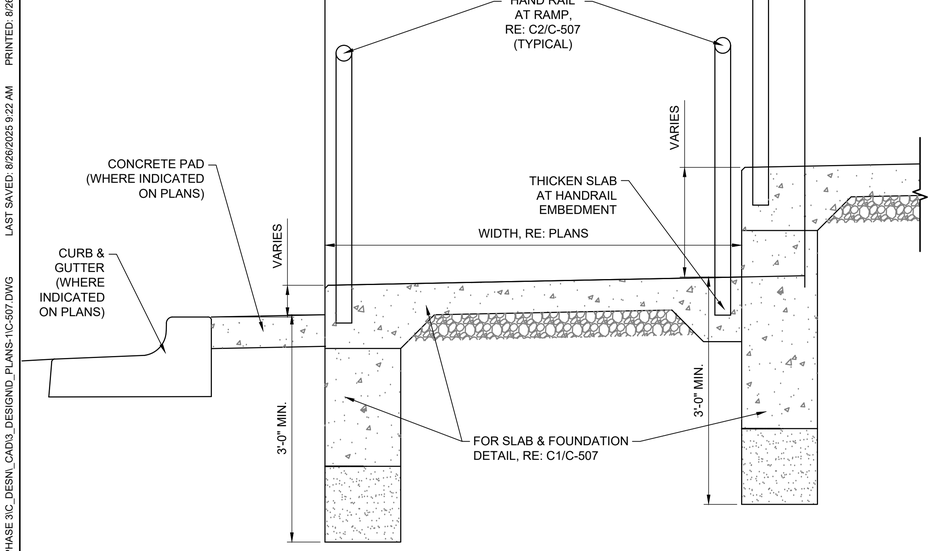
NOTES:

1. WELL ALL JOINS WITH STAINLESS ROD.
2. BUILD FROM STAINLESS STEEL.
3. SEE NOTES C1/C-506 FOR HANDRAIL NOTES.

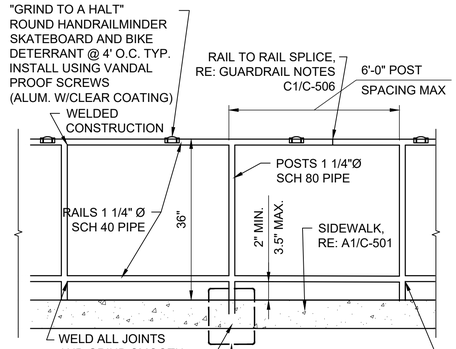
C4 HANDRAIL ATTACHED TO BUILDING
1" = 1'-0" 0 1/2' 1' 2'



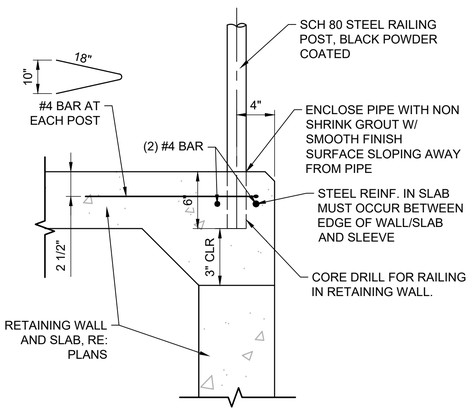
C5 HANDRAIL
3/4" = 1'-0" 0 1' 2' 3'



A1 ADA RAMP SECTION
1" = 1'-0" 0 1/2' 1' 2'

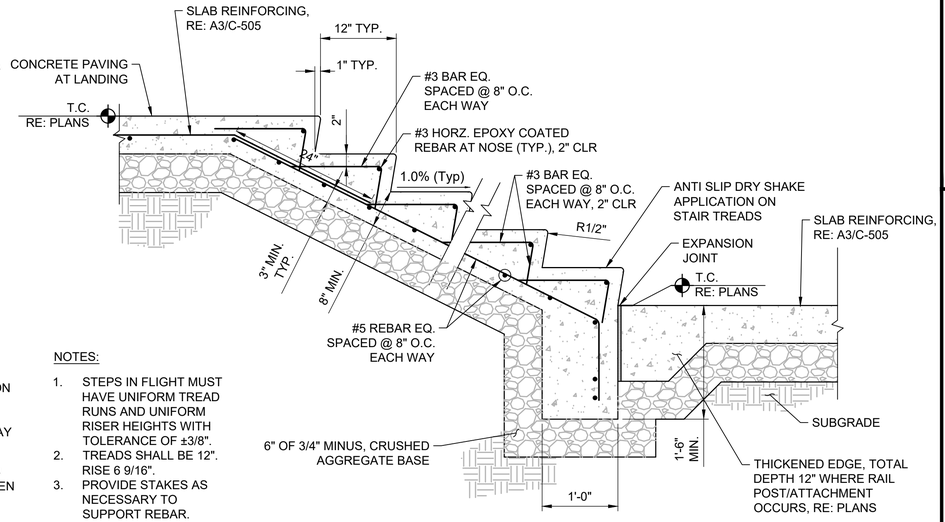


B3 TYPICAL HANDRAIL AT SIDEWALK
N.T.S.



A3 RAILING INSTALLATION
1-1/2" = 1'-0" 0 6" 12" 18"

SECTION A



NOTES:

1. STEPS IN FLIGHT MUST HAVE UNIFORM TREAD RUNS AND UNIFORM RISER HEIGHTS WITH TOLERANCE OF ±3/8".
2. TREADS SHALL BE 12". RISE 6 9/16".
3. PROVIDE STAKES AS NECESSARY TO SUPPORT REBAR.

SECTION VIEW

A4 STAIR DETAIL
N.T.S.

KELLER ASSOCIATES
305 North 3rd Ave, Suite A
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REGISTERED PROFESSIONAL ENGINEER
DAVID R. KINZER
2659
8/29/2025
STATE OF IDAHO
ELECTRONICALLY SIGNED

NO.	REVISIONS	DATE

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DPW PROJECT #24-246SC
ISU: REPAIR UTILITY TUNNEL, PHASE 3

IDAHO STATE UNIVERSITY

DETAILS

DRAWN: KJW CHECK: MBH

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO.
208106-119

SHEET NO.
C-507

J:\208106-119 ISU REPLACE UTILITY TUNNEL, PHASE 3\C_DESN_CAD\3_DESIGN\D_PLANS-1\C-507.DWG LAST SAVED: 8/26/2025 9:22 AM PRINTED: 8/26/2025 9:52 AM

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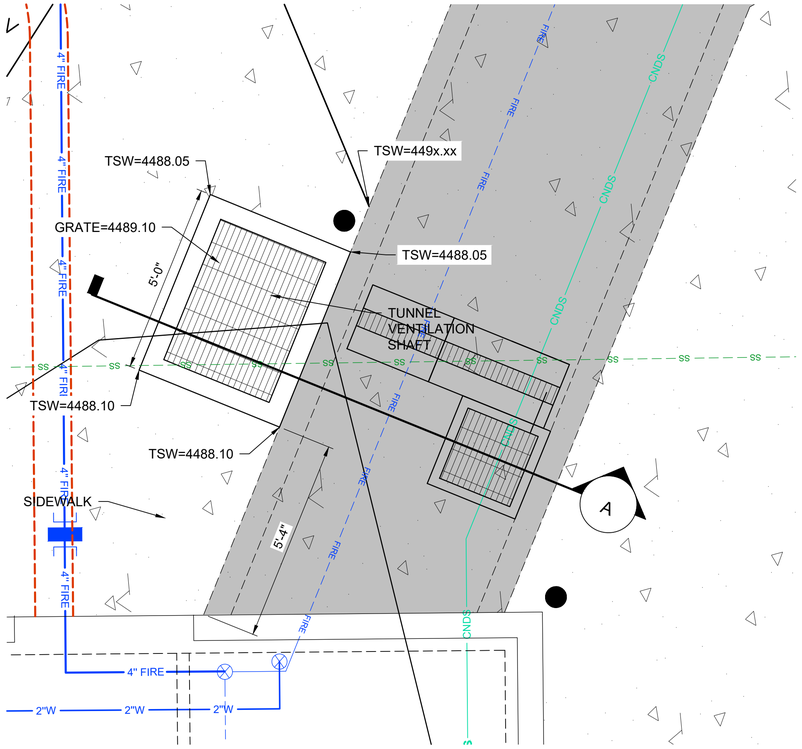
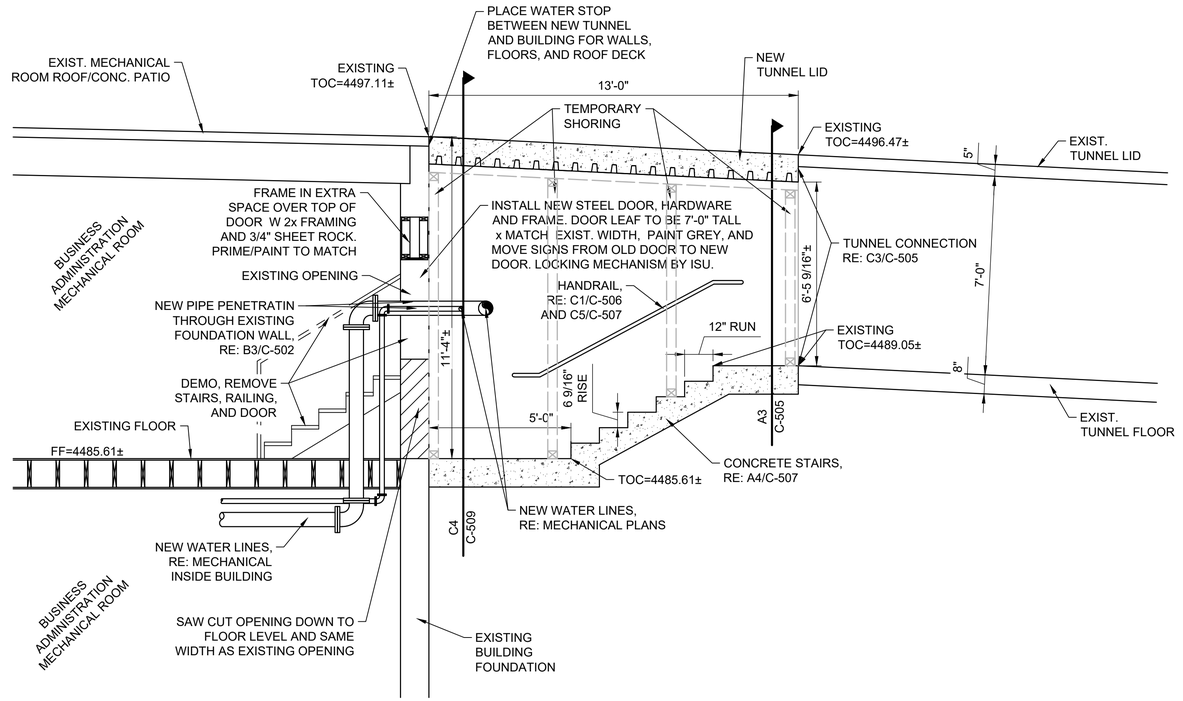
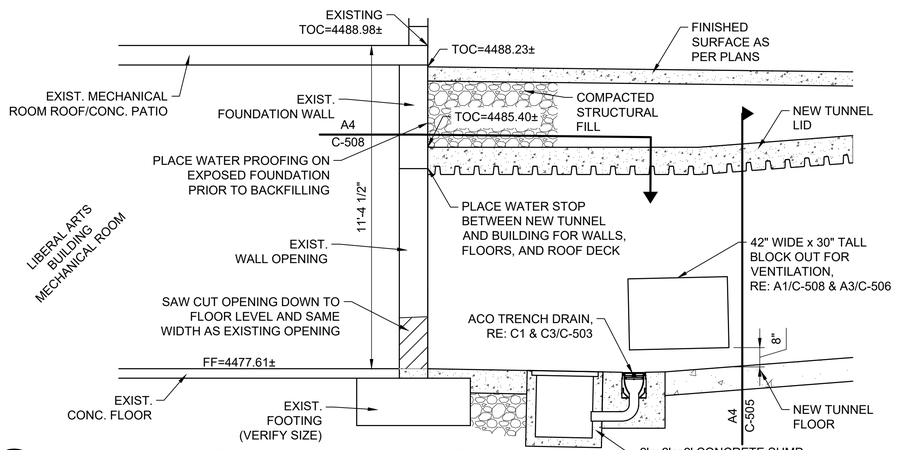


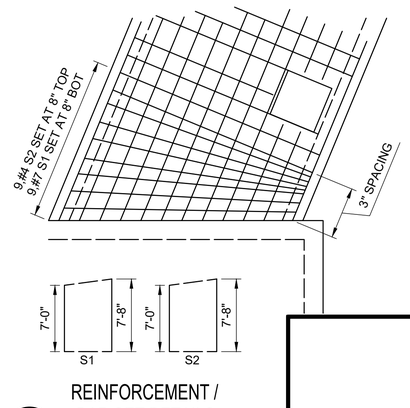
A1 ENLARGED VENTILATION SHAFT PLAN & SECTION DETAIL
1/2" = 1'-0"



B3 NEW TUNNEL TO BUSINESS ADMINISTRATION BUILDING CONNECTION SECTION
N.T.S.



A3 NEW TUNNEL TO LIBERAL ARTS BUILDING CONNECTION
N.T.S.



A4 REINFORCEMENT / BAR SET DETAILS
N.T.S.

KELLER ASSOCIATES
305 North 3rd Ave, Suite A
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(208) 238-2146

REGISTERED PROFESSIONAL ENGINEER
DAVID R. KINZER
2659
8/29/2025
STATE OF IDAHO

NO.	REVISIONS	DATE

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DPW PROJECT #24-246SC
ISU: REPAIR UTILITY TUNNEL, PHASE 3

IDAHO STATE UNIVERSITY

DETAILS

DRAWN: KJW CHECK: MBH

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO.
208106-119

SHEET NO.
C-508

PRINTED: 8/26/2025 9:52 AM
LAST SAVED: 8/26/2025 9:22 AM
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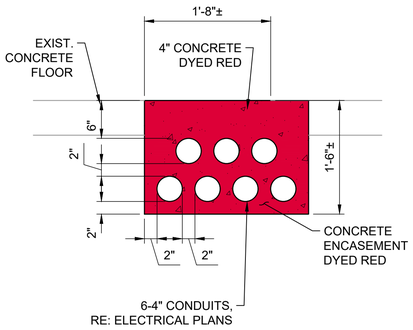
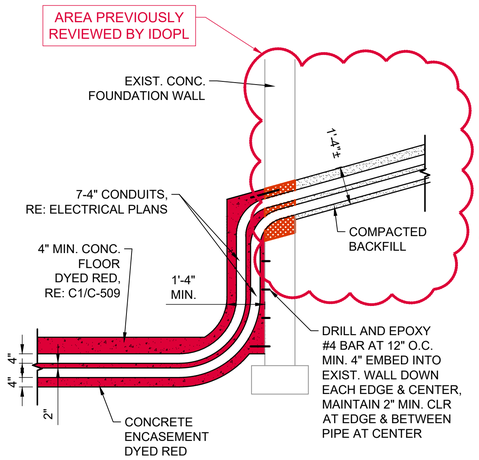
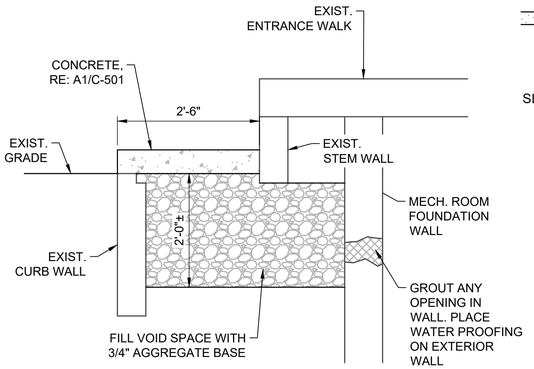


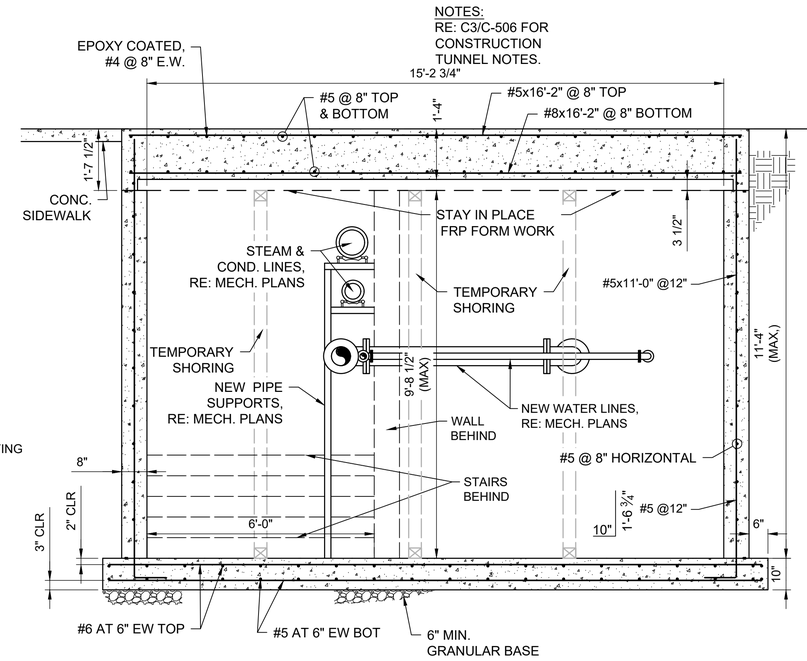
C1 STUDENT UNION BUILDING MAIL ROOM CONDUIT BANK SECTION
N.T.S.



C2 CONCRETE ENCASEMENT AT FOUNDATION WALL
N.T.S.



C3 FINE ARTS BUILDING - VOID SPACE INFILL
N.T.S.



C4 NEW TUNNEL SECTION
N.T.S.

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PROFESSIONAL ENGINEER
LICENSE NUMBER
15381
8/27/2025
STATE OF IDAHO
MATTHEW B. HILL

NO.	REVISIONS	DATE

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DPW PROJECT #24-246SC
ISU: REPAIR UTILITY TUNNEL, PHASE 3

IDAHO STATE UNIVERSITY

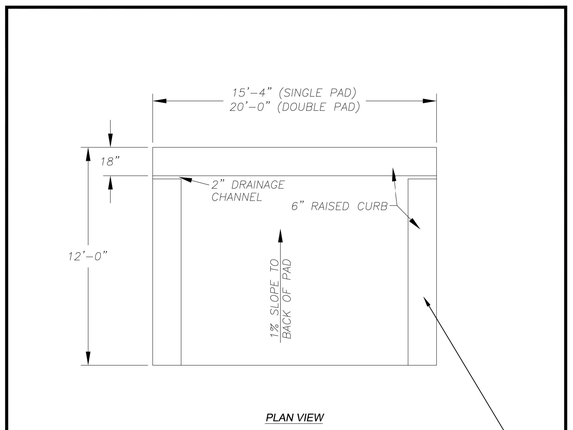
DETAILS

DRAWN: KJW | CHECK: MBH

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO. 208106-119

SHEET NO. C-509



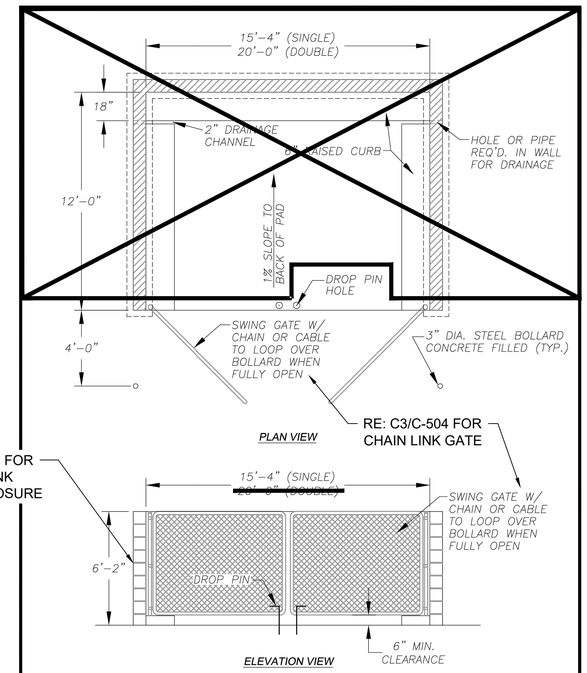
CITY OF POCATELLO Standard Revsions

Concrete Dumpster Pad

ISSUE DATE:	02/22/2016	DRAWN BY:	JJM
REVISED DATE:	-	SCALE:	NOT TO SCALE

DETAIL **PSD-717** SHEET 1 OF 1

RE: B4/C-501 FOR CHAIN LINK FENCE ENCLOSURE

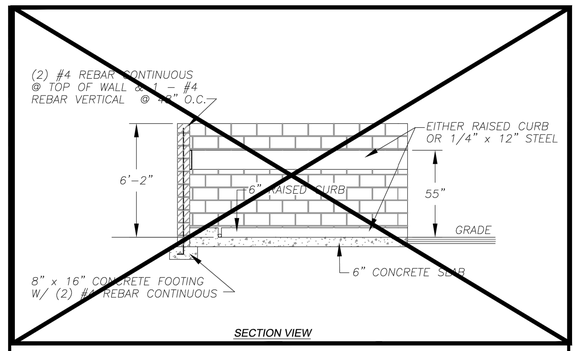


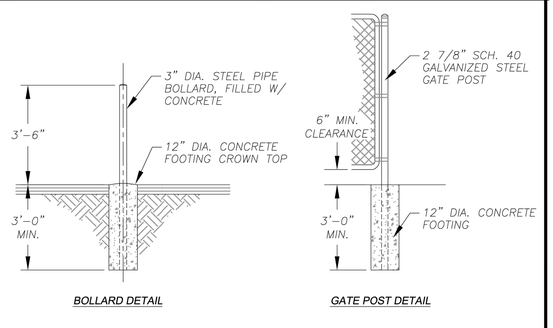
CITY OF POCATELLO Standard Revsions

Concrete Dumpster Pad w/Enclosure & Gate

ISSUE DATE:	07/19/2013	DRAWN BY:	JJM
REVISED DATE:	-	SCALE:	NOT TO SCALE

DETAIL **PSD-717B** SHEET 1 OF 2





CITY OF POCATELLO Standard Revsions

Concrete Dumpster Pad w/Enclosure & Gate

ISSUE DATE:	07/19/2013	DRAWN BY:	JJM
REVISED DATE:	-	SCALE:	NOT TO SCALE

DETAIL **PSD-717B** SHEET 2 OF 2

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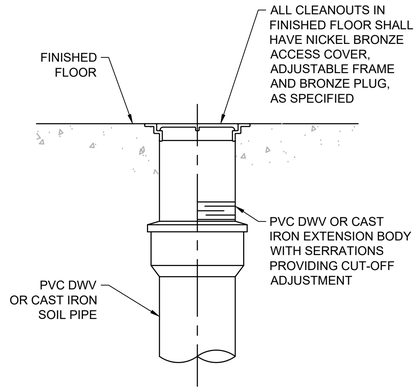
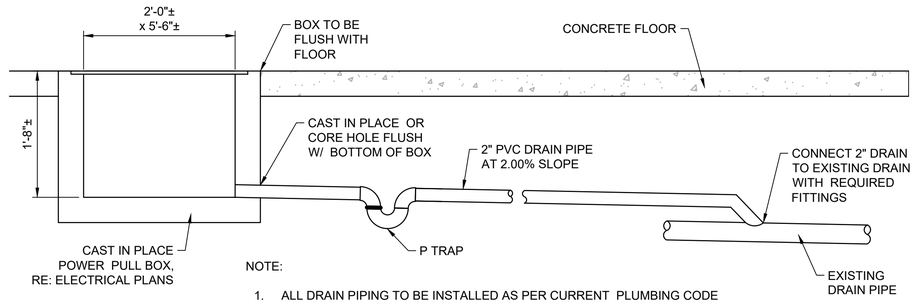
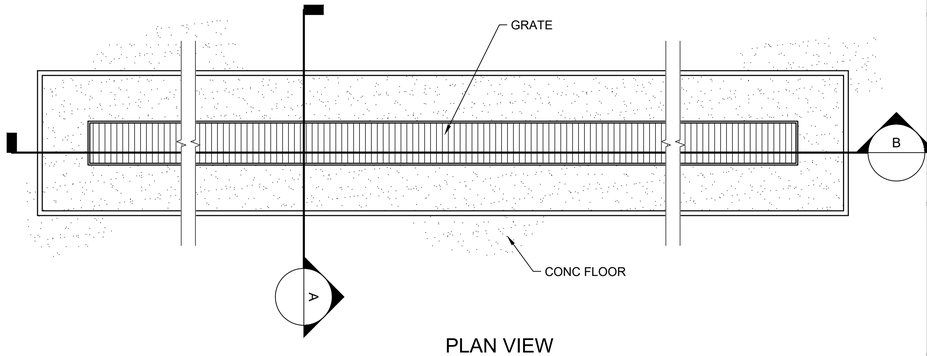


C1 FLOOR CLEANOUT
N.T.S.

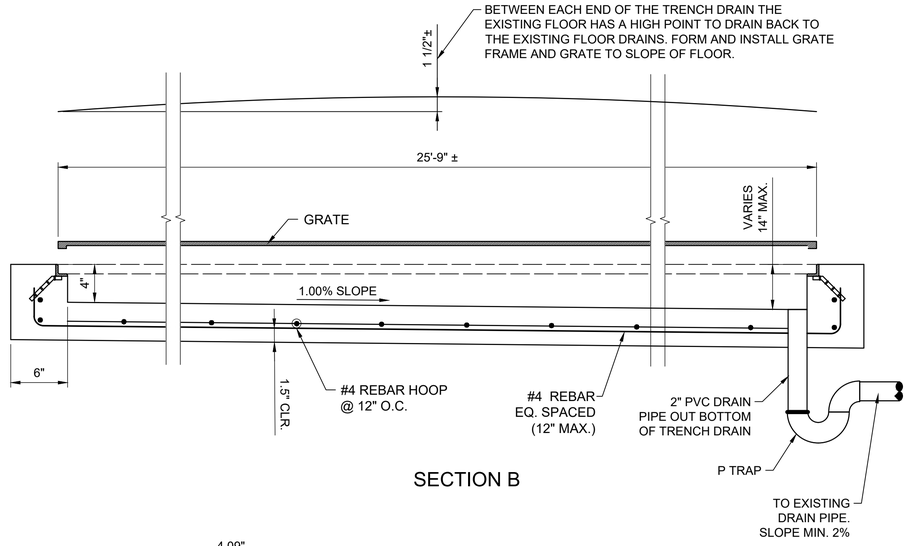


NOTE:
1. ALL DRAIN PIPING TO BE INSTALLED AS PER CURRENT PLUMBING CODE
2. BACKFILL AND COMPACT ALL TRENCHING AS PER SPECIFICATIONS.
3. CONTRACTOR TO FORM IN PLACE AND FIELD FIT THE ELECTRICAL PULL BOX. BOTTOM OF BOX TO BE KEPT AS SHALLOW AS POSSIBLE TO ALLOW FOR A 2" DRAIN LINE TO BE INSTALLED AND DRAIN TO THE EXISTING DRAIN PIPE.

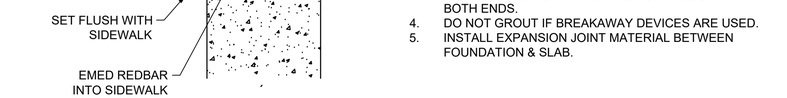
C2 POWER PULL BOX AND DRAIN
N.T.S.



PLAN VIEW

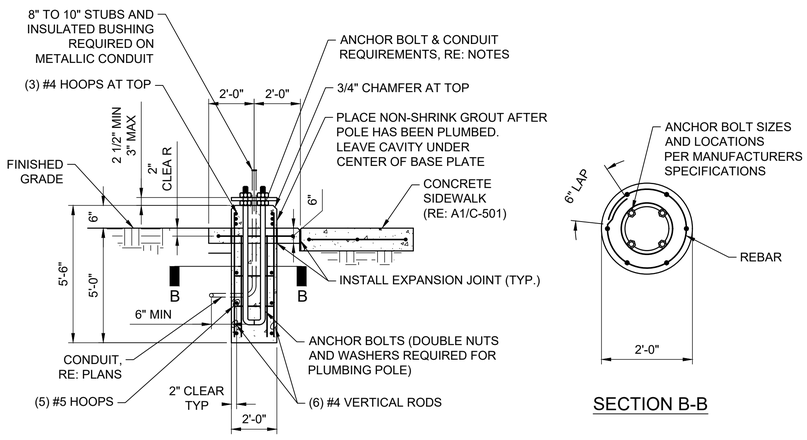


SECTION B



PLAN

NOTES:
1. ALL CONDUIT ELBOWS USED IN CONCRETE BASES SHALL BE RPC.
2. STEEL CONDUIT SHALL BE USED TO EXTEND ELBOWS BEYOND FOUNDATION.
3. SPARE STUBOUTS SHALL BE TERMINATED WITH A STEEL COUPLING AND PLASTIC PUSH PLUG AT BOTH ENDS.
4. DO NOT GROUT IF BREAKAWAY DEVICES ARE USED.
5. INSTALL EXPANSION JOINT MATERIAL BETWEEN FOUNDATION & SLAB.

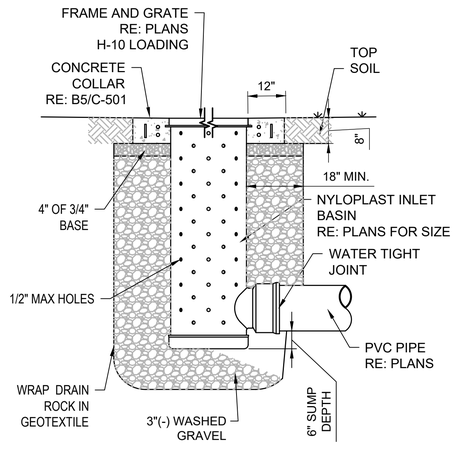


SECTION A-A

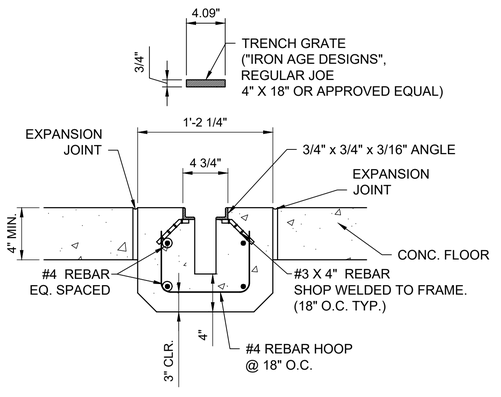
SECTION B-B

A1 SITE LIGHT FOUNDATION
N.T.S.

NOTES:
1. NYLOPLAST INLET BASINS, GRATES, FRAMES, PIPE CONNECTIONS, ETC.
2. INLET GRATE AND INVERT PIPE ELEVATIONS AS PER PLANS.
3. THE BACKFILL MATERIAL SHALL BE CLASS II, ASTM D2321. BEDDING & BACKFILL SHALL BE PLACED & COMPACTED UNIFORMLY IN ACCORDANCE WITH ASTM D2321. RE: MANUFACTURER RECOMMENDATIONS.



A3 NYLOPLAST PERFORATED DRAIN BASIN / DRY WELL
N.T.S.



SECTION A

TRENCH GRATE NOTES:
1. MATERIAL: DUCTILE IRON
2. NATURAL FINISH
3. TOTAL THICKNESS: 3/4"
4. FITS TRENCH FRAME BY IRON AGE DESIGNS
5. NO OPENINGS GREATER THAN 1/2"
6. FREE DRAIN AREA18.23%
7. SEE IRON AGE REGULAR JOE 4" X 18" TRENCH DRAIN DRAWING RJN4-18I02.

A4 FORMED IN PLACE FLOOR TRENCH DRAIN
N.T.S.

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PROFESSIONAL ENGINEER
LICENSE
15381
8/27/2025
STATE OF IDAHO
MATTHEW B. HILL

NO.	REVISIONS	DATE

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DPW PROJECT #24-246SC
ISU: REPAIR UTILITY TUNNEL, PHASE 3

IDAHO STATE UNIVERSITY

DETAILS

DRAWN: KJW | CHECK: MBH

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO.
208106-119

SHEET NO.
C-510

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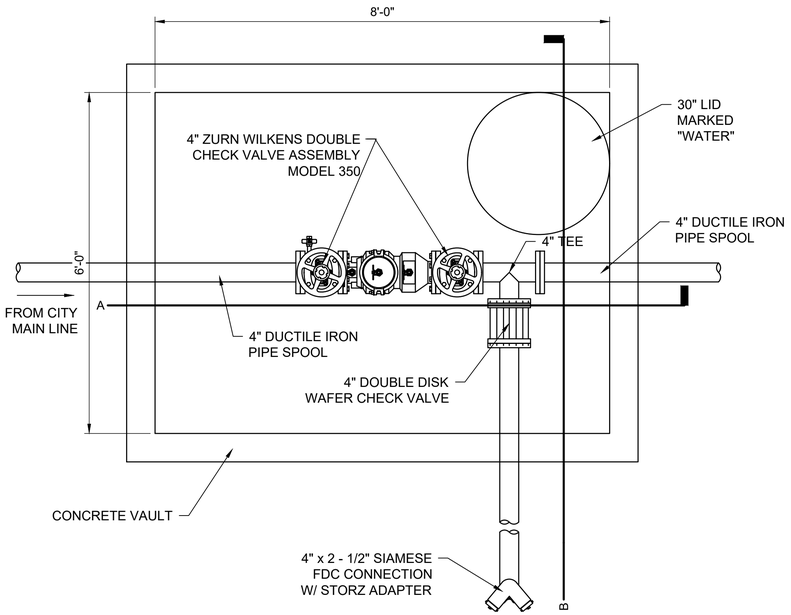
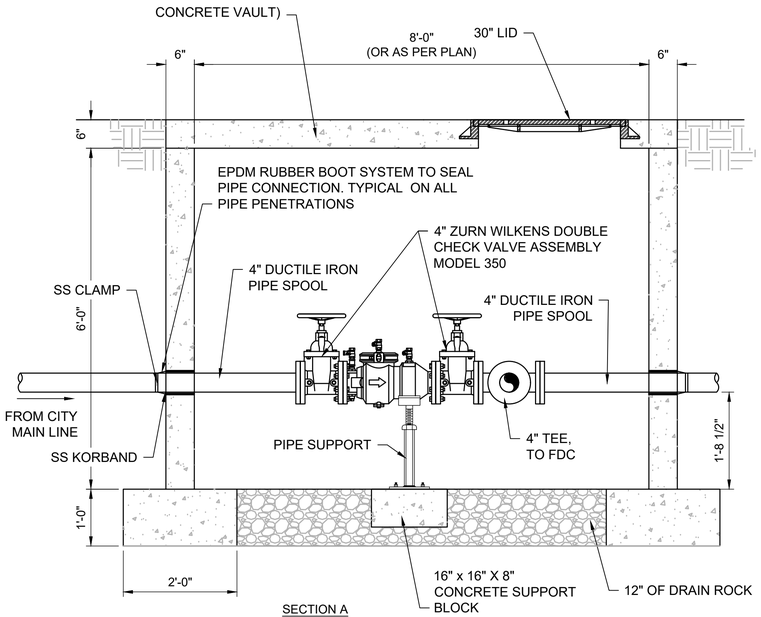


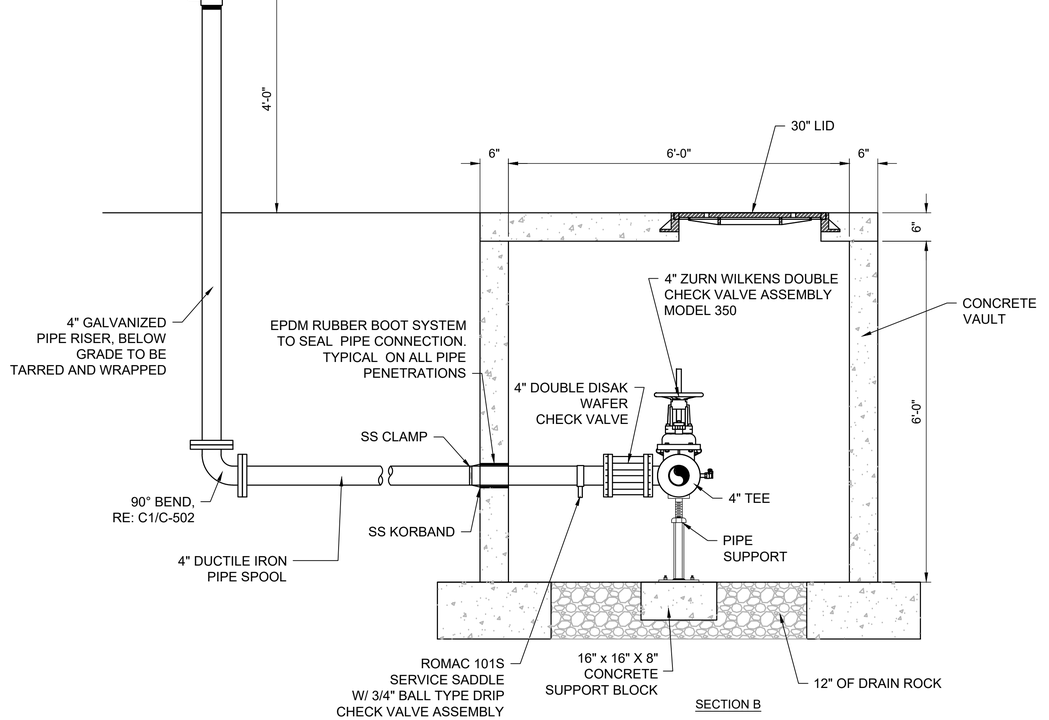
PLAN VIEW

NOTES:

1. ALL PIPING, BACKFLOW, AND FDC ASSEMBLIES SHALL BE INSTALLED BY A LICENSED FIRE SPRINKLER CONTRACTOR AS REQUIRED BY IDAHO STATE LAW. OBTAIN APPROPRIATE FIRE SPRINKLER PERMIT PRIOR TO INSTALLATION.
2. DOUBLE DISK WAFER CHECK VALVE TO TO BE A FIRE PROTECTION UL LISTED FM APPROVED VALVE.
3. ALL PIPING THROUGH THE VAULT TO BE DUCTILE IRON.



SECTION A



SECTION B

A1 4" BACKFLOW VAULT AND FIRE DEPARTMENT CONNECTION

N.T.S.

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305 North 3rd Ave, Suite A
Pocatello, Idaho 83201
(208) 238-2146

PROFESSIONAL ENGINEER
LICENSE
15381
8/27/2025
STATE OF IDAHO
MATTHEW B. HILL

NO.	REVISIONS	DATE

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DPW PROJECT #24-246SC
ISU: REPAIR UTILITY
TUNNEL, PHASE 3

IDAHO STATE UNIVERSITY

DETAILS

DRAWN: KJW CHECK: MBH

VERIFY SCALE: Scales based on 22"x34" prints.

1-1/2 Inches

PROJECT NO.
208106-119

SHEET NO.
C-511

J:\208106-119 ISU REPLACE UTILITY TUNNEL, PHASE 3\C_DESN_CAD\3_DESIGN\D_PLANS-1\C-511.DWG LAST SAVED: 8/26/2025 9:23 AM PRINTED: 8/26/2025 9:53 AM

APPENDIX A

EXISTING IRRIGATION SYSTEM DRAWINGS PROVIDED BY IDAHO STATE UNIVERISTY

Idaho State UNIVERSITY

ISU IRRIGATION MAP

MAIN CAMPUS

POCATELLO, IDAHO

CESAR CHAVEZ ST.

1

7

10

5

4

15

VAULT

VAULT

ADJOINING SHEETS

14	11	12
19		16
	20	21

LEGEND

- MAIN SUPPLY VALVE
- DOUBLE CHECK VALVE
- ISOLATION VALVE
- QUICK COUPLING VALVE
- ELECTRIC CONTROL VALVE
- MANUAL CONTROL VALVE
- DRAIN VALVE
- LINE FLUSHING VALVE
- ½" THREADED RISER
- HOSE BIB
- CONTROLLER (Controller Number / Number of Stations)
- ELECTRICAL JUNCTION BOX
- LARGE TURF ROTOR
- MEDIUM TURF ROTOR
- SMALL TURF ROTOR
- SPRAY HEAD
- STREAM ROTATOR
- MAIN IRRIGATION LINE
- IRRIGATION PIPE
- IRRIGATION CONTROL WIRE
- DRIP IRRIGATION
- SLEEVE
- ELECTRICAL LINE

GRAPHIC SCALE

0 30' 60'

1 inch = 30'

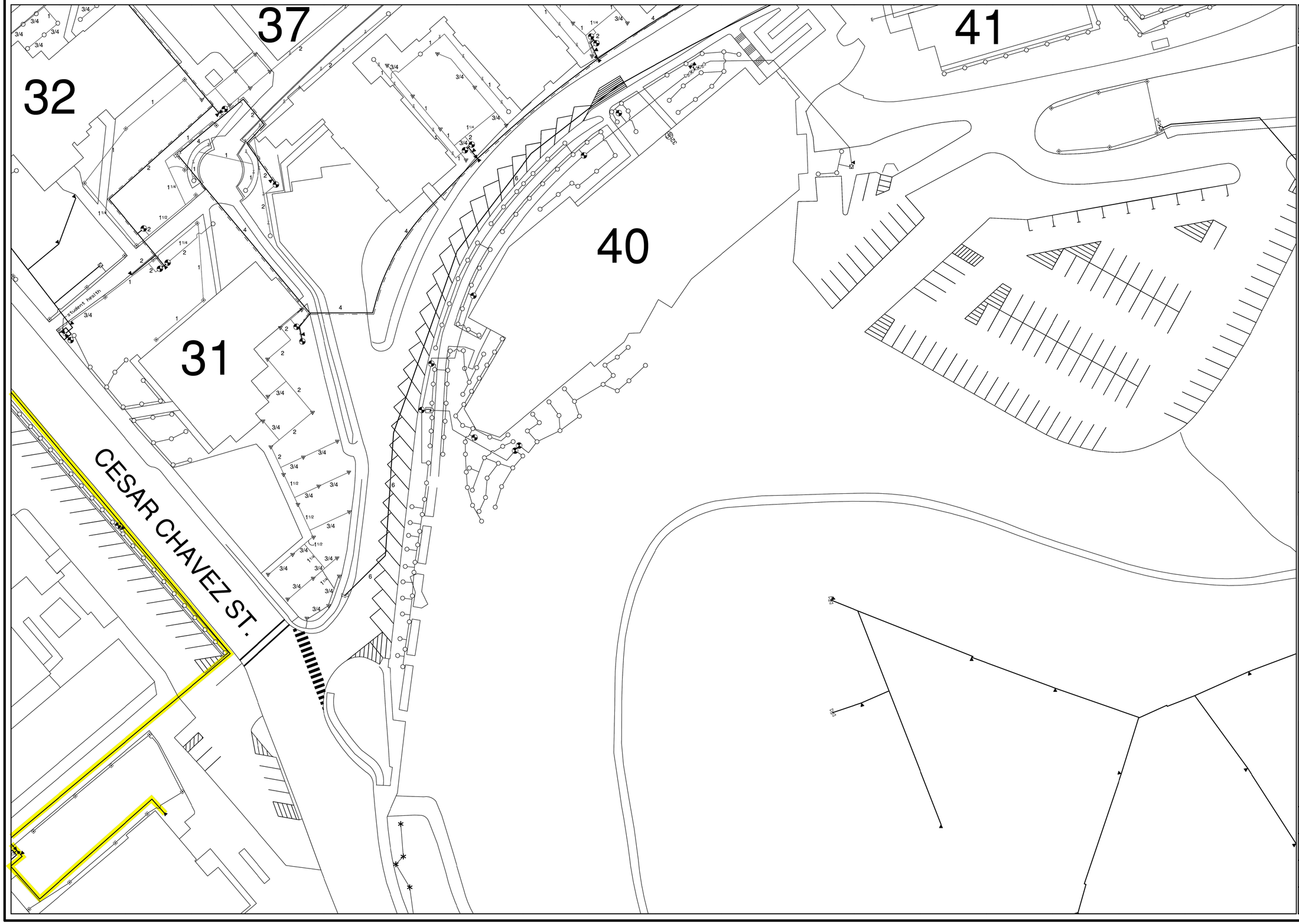
N

DRAWN BY: KP

CHECKED BY: DM

PROJECT DATE: MARCH/2016

SHEET: 15 OF 43



Idaho State UNIVERSITY

ISU IRRIGATION MAP

MAIN CAMPUS

POCATELLO, IDAHO

ADJOINING SHEETS

11	12	13
15		17
20	21	22

LEGEND

- MAIN SUPPLY VALVE
- DOUBLE CHECK VALVE
- ISOLATION VALVE
- QUICK COUPLING VALVE
- ELECTRIC CONTROL VALVE
- MANUAL CONTROL VALVE
- DRAIN VALVE
- LINE FLUSHING VALVE
- ½" THREADED RISER
- HOSE BIB
- CONTROLLER (Controller Number / Number of Stations)
- ELECTRICAL JUNCTION BOX
- LARGE TURF ROTOR
- MEDIUM TURF ROTOR
- SMALL TURF ROTOR
- SPRAY HEAD
- STREAM ROTATOR
- MAIN IRRIGATION LINE
- IRRIGATION PIPE
- IRRIGATION CONTROL WIRE
- DRIP IRRIGATION
- SLEEVE
- ELECTRICAL LINE

GRAPHIC SCALE

0 30' 60'

1 inch = 30'

N

DRAWN BY: KP

CHECKED BY: DM

PROJECT DATE: MARCH/2016

SHEET: 16 OF 43

Idaho State UNIVERSITY

ISU IRRIGATION MAP

MAIN CAMPUS

POCATELLO, IDAHO

8

11

12

13

AREA TO BE COMPLETED AS A PART OF A SERVICE CONTRACT

E. PUTNUM ST.

S. 5th AVE.

MAIN SUPPY IN TUNNEL

VAULT

ADJOINING SHEETS

19	15	16
25		21
	26	27

LEGEND

- MAIN SUPPLY VALVE
- DOUBLE CHECK VALVE
- ISOLATION VALVE
- QUICK COUPLING VALVE
- ELECTRIC CONTROL VALVE
- MANUAL CONTROL VALVE
- DRAIN VALVE
- LINE FLUSHING VALVE
- ½" THREADED RISER
- HOSE BIB
- CONTROLLER (Controller Number / Number of Stations)
- ELECTRICAL JUNCTION BOX
- LARGE TURF ROTOR
- MEDIUM TURF ROTOR
- SMALL TURF ROTOR
- SPRAY HEAD
- STREAM ROTATOR
- MAIN IRRIGATION LINE
- IRRIGATION PIPE
- IRRIGATION CONTROL WIRE
- DRIP IRRIGATION
- SLEEVE
- ELECTRICAL LINE

GRAPHIC SCALE

0 30' 60'

1 inch = 30'

N

DRAWN BY: KP

CHECKED BY: DM

PROJECT DATE: MARCH/2016

SHEET: 20 OF 43

14

6

17

E. HUMBOLT ST.

Idaho State UNIVERSITY

ISU IRRIGATION MAP

MAIN CAMPUS

POCATELLO, IDAHO

ADJOINING SHEETS

15	16	17
20		22
26	27	28

LEGEND

- MAIN SUPPLY VALVE
- DOUBLE CHECK VALVE
- ISOLATION VALVE
- QUICK COUPLING VALVE
- ELECTRIC CONTROL VALVE
- MANUAL CONTROL VALVE
- DRAIN VALVE
- LINE FLUSHING VALVE
- ½" THREADED RISER
- HOSE BIB
- CONTROLLER (Controller Number / Number of Stations)
- ELECTRICAL JUNCTION BOX
- LARGE TURF ROTOR
- MEDIUM TURF ROTOR
- SMALL TURF ROTOR
- SPRAY HEAD
- STREAM ROTATOR
- MAIN IRRIGATION LINE
- IRRIGATION PIPE
- IRRIGATION CONTROL WIRE
- DRIP IRRIGATION
- SLEEVE
- ELECTRICAL LINE

GRAPHIC SCALE

0 30' 60'

1 inch = 30'

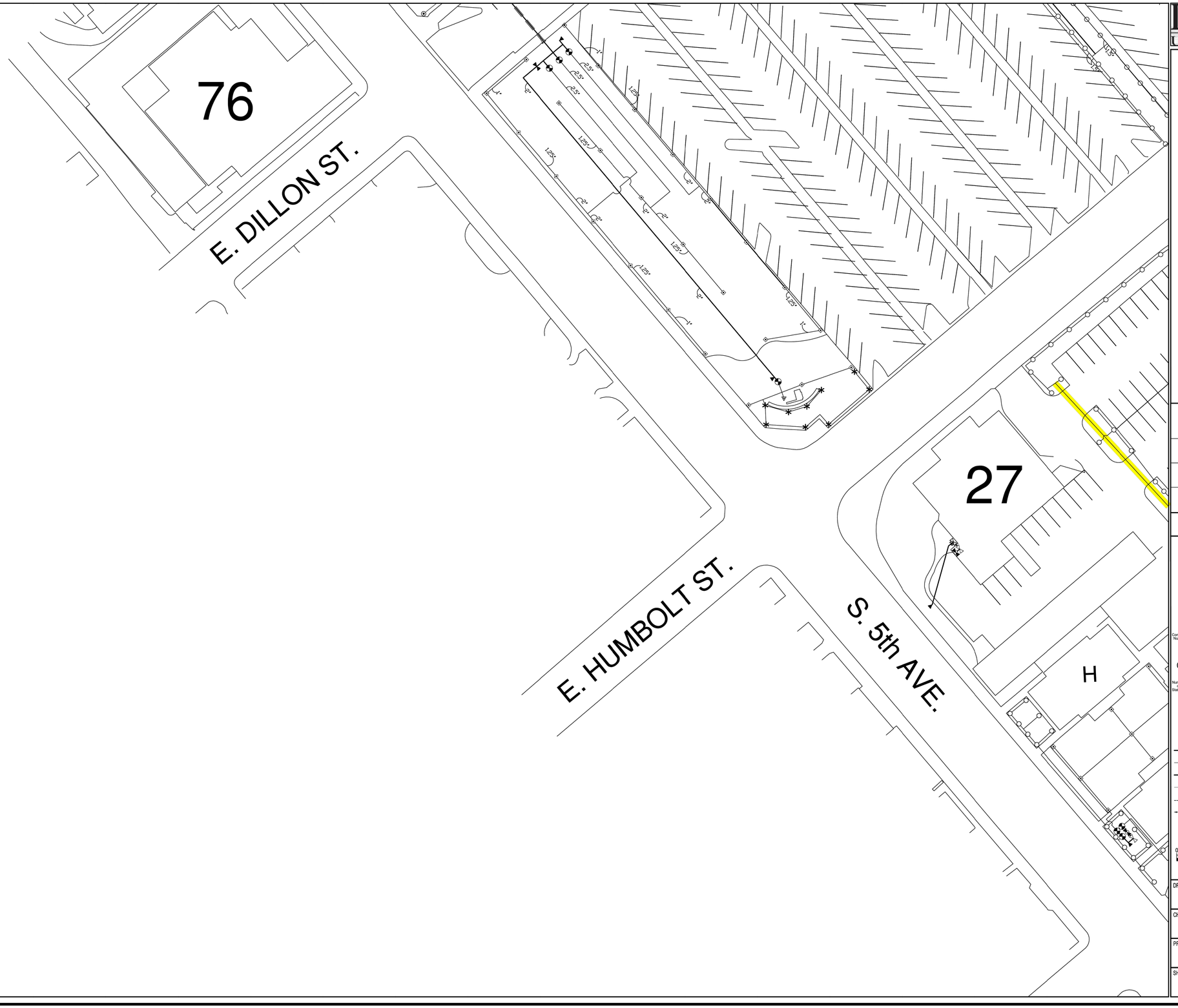
N

DRAWN BY: KP

CHECKED BY: DM

PROJECT DATE: MARCH/2016

SHEET: 21 OF 43



Idaho State UNIVERSITY

ISU IRRIGATION MAP

MAIN CAMPUS

POCATELLO, IDAHO

ADJOINING SHEETS

	20	21
25		27
31		32

LEGEND

- MAIN SUPPLY VALVE
- DOUBLE CHECK VALVE
- ISOLATION VALVE
- QUICK COUPLING VALVE
- ELECTRIC CONTROL VALVE
- MANUAL CONTROL VALVE
- DRAIN VALVE
- LINE FLUSHING VALVE
- ½" THREADED RISER
- HOSE BIB
- CONTROLLER
- ELECTRICAL JUNCTION BOX
- LARGE TURF ROTOR
- MEDIUM TURF ROTOR
- SMALL TURF ROTOR
- SPRAY HEAD
- STREAM ROTATOR
- MAIN IRRIGATION LINE
- IRRIGATION PIPE
- IRRIGATION CONTROL WIRE
- DRIP IRRIGATION
- SLEEVE
- ELECTRICAL LINE

Controller Number
Number of Stations

GRAPHIC SCALE

0 30′ 60′

1 inch = 30′

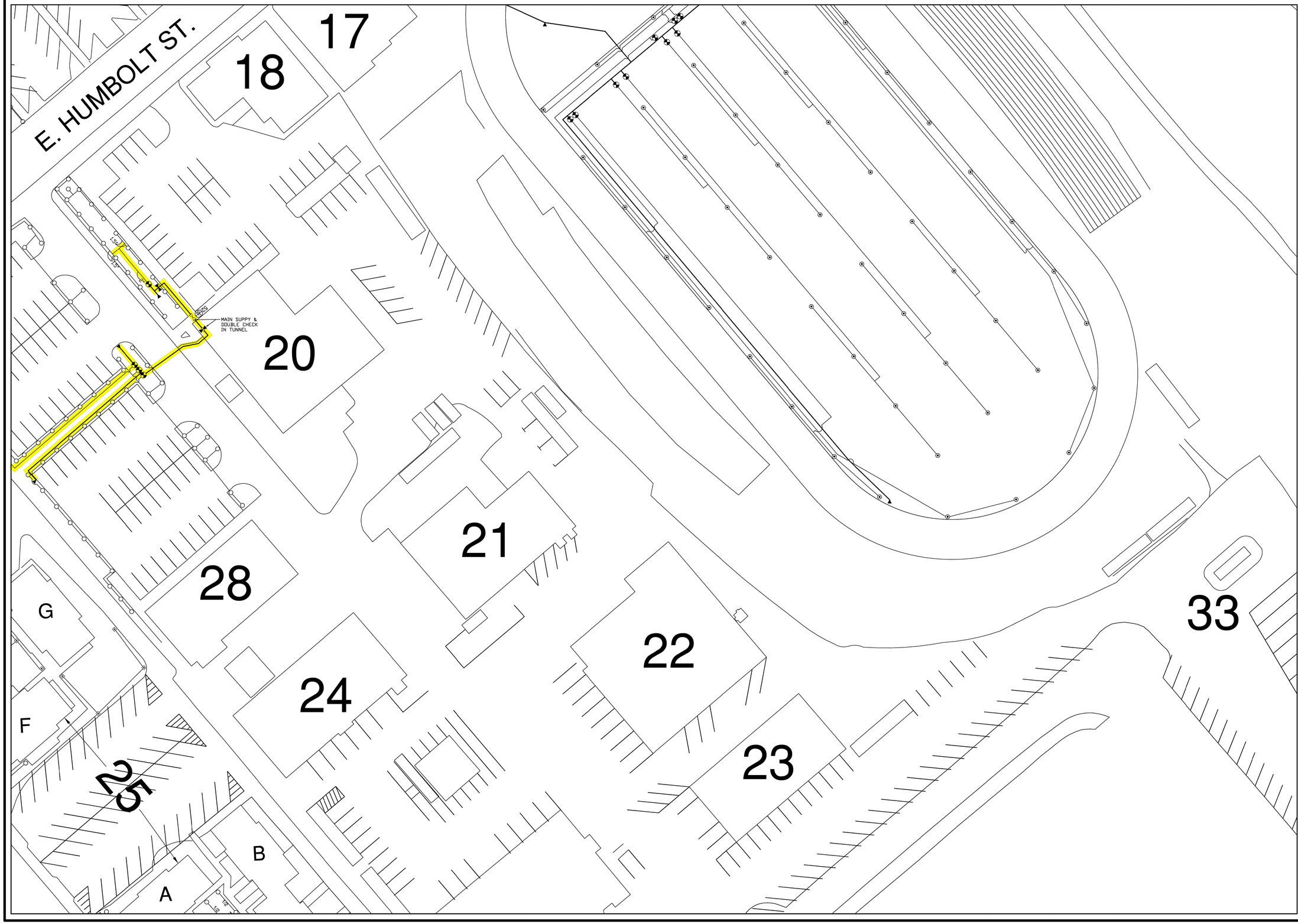
N

DRAWN BY: KP

CHECKED BY: DM

PROJECT DATE: MARCH/2016

SHEET: 26 OF 43



Idaho State University

ISU IRRIGATION MAP

MAIN CAMPUS

POCATELLO, IDAHO

ADJOINING SHEETS

20	21	22
26		28
	32	33

LEGEND

- MAIN SUPPLY VALVE
- DOUBLE CHECK VALVE
- ISOLATION VALVE
- QUICK COUPLING VALVE
- ELECTRIC CONTROL VALVE
- MANUAL CONTROL VALVE
- DRAIN VALVE
- LINE FLUSHING VALVE
- ½" THREADED RISER
- HOSE BIB
- CONTROLLER (Controller Number 01, Number of Stations 16)
- ELECTRICAL JUNCTION BOX
- LARGE TURF ROTOR
- MEDIUM TURF ROTOR
- SMALL TURF ROTOR
- SPRAY HEAD
- STREAM ROTATOR
- MAIN IRRIGATION LINE
- IRRIGATION PIPE
- IRRIGATION CONTROL WIRE
- DRIP IRRIGATION
- SLEEVE
- ELECTRICAL LINE

GRAPHIC SCALE

0 30' 60'

1 inch = 30'

N

DRAWN BY: KP

CHECKED BY: DM

PROJECT DATE: MARCH/2016

SHEET: 27 OF 43

SUMP PUMP - SIMPLEX - SUBMERSIBLE TYPE

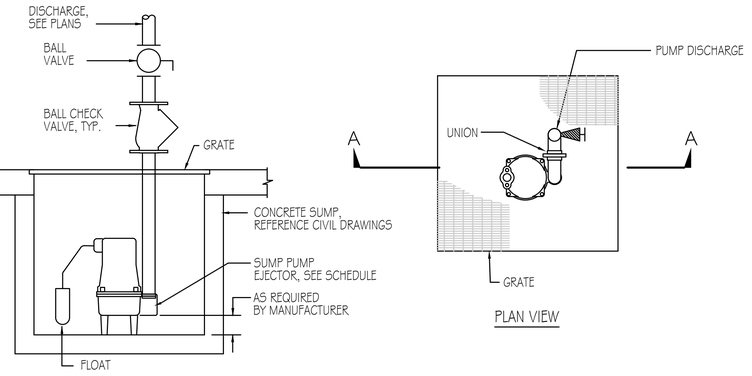
SYMBOL	FEET HEAD	GPM	ELECTRICAL			HP	RPM	PENTAIR HYDROMATIC MODEL	PUMP TYPE	REMARKS
			VOLTS	HERTZ	PHASE					
SP-1	25	40	120	60	1	1/2	1725	SHEF 45	SUBMERSIBLE	SEE SUMP DETAIL 1/M-001

SELECTION BASED ON ZOELLER

STEAM PRESSURE REGULATING VALVE

SYMBOL	CAPACITY LBS/HR	INLET PRESSURE PSIG	OUTLET PRESSURE PSIG	CV	MAX SOUND LEVEL dBA	PRESSURE (SPRING) RANGE	WATSON MCDANIEL MODEL	SIZE	DUTY	LOCATION	REMARKS
SPRV-1	3,000	51	5	44	85	1-15 PSIG	SERIES HD	2-1/2"	FRAZIER HALL	TUNNEL	PROVIDE WITH PILOT OPERATOR

SELECTION BASED ON WATSON MCDANIEL, OTHER ACCEPTABLE MANUFACTURERS ARE SPENCE AND ARI-ARMATUREN
SEE SPECIFICATION SECTION 232200



SUBMERSIBLE SUMP PUMP DETAIL

SCALE: NONE

1 / M-001

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DPW PROJECT #24-246
ISU: REPAIR UTILITY TUNNEL, PHASE 3

IDAHO STATE UNIVERSITY

MECHANICAL EQUIPMENT SCHEDULES

DRAWN: GWM | CHECK: AJP

VERIFY SCALE: Scales based on 22"x34" prints.

1-1/2 Inches

PROJECT NO. 208106-119

SHEET NO. M-001

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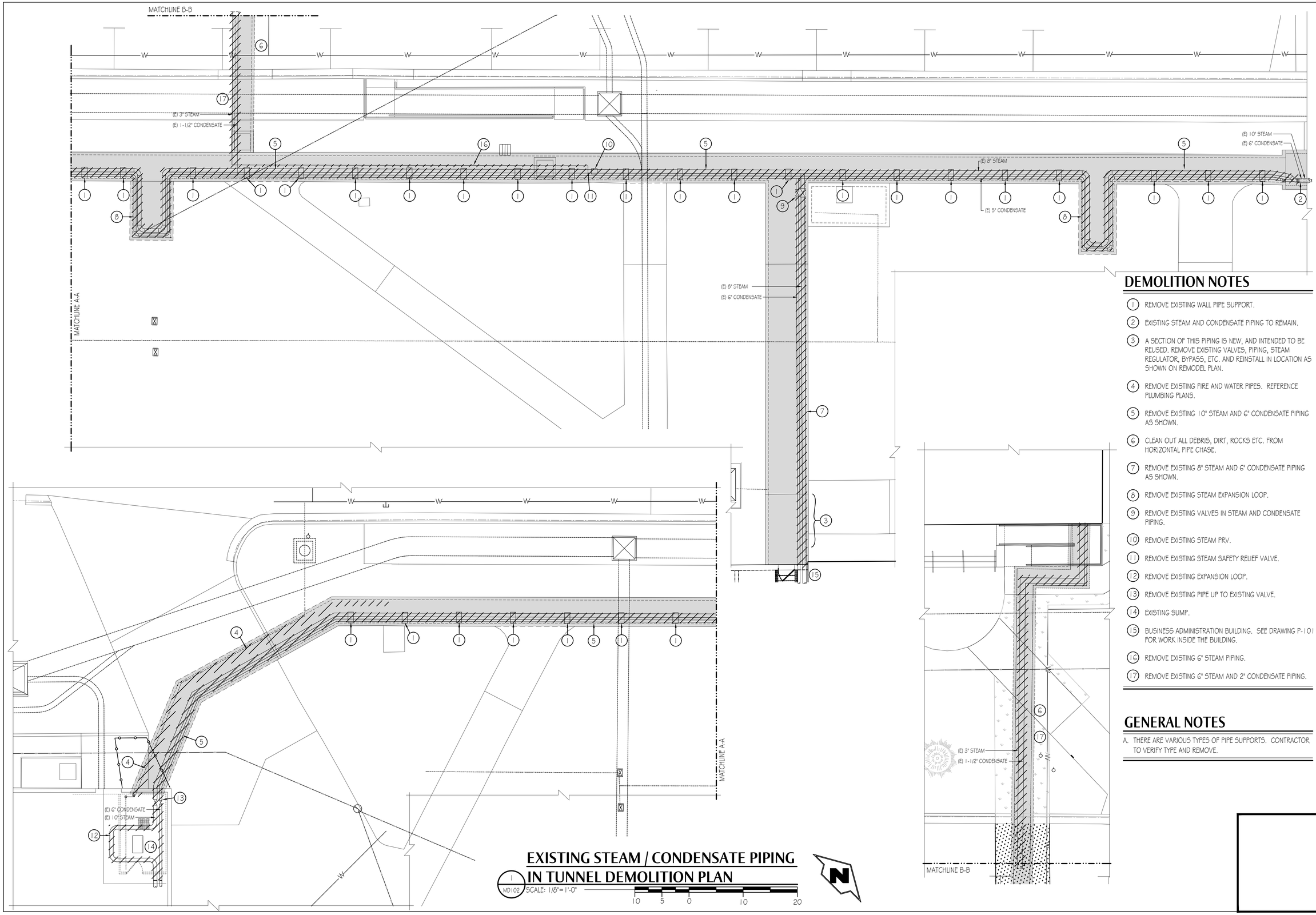

EXISTING STEAM / CONDENSATE PIPING IN TUNNEL DEMOLITION PLAN

1 / MD102 SCALE: 1/8"=1'-0"

10 5 0 10 20

DEMOLITION NOTES

1. REMOVE EXISTING WALL PIPE SUPPORT.
2. EXISTING STEAM AND CONDENSATE PIPING TO REMAIN.
3. A SECTION OF THIS PIPING IS NEW, AND INTENDED TO BE REUSED. REMOVE EXISTING VALVES, PIPING, STEAM REGULATOR, BYPASS, ETC. AND REINSTALL IN LOCATION AS SHOWN ON REMODEL PLAN.
4. REMOVE EXISTING FIRE AND WATER PIPES. REFERENCE PLUMBING PLANS.
5. REMOVE EXISTING 10" STEAM AND 6" CONDENSATE PIPING AS SHOWN.
6. CLEAN OUT ALL DEBRIS, DIRT, ROCKS ETC. FROM HORIZONTAL PIPE CHASE.
7. REMOVE EXISTING 8" STEAM AND 6" CONDENSATE PIPING AS SHOWN.
8. REMOVE EXISTING STEAM EXPANSION LOOP.
9. REMOVE EXISTING VALVES IN STEAM AND CONDENSATE PIPING.
10. REMOVE EXISTING STEAM PRV.
11. REMOVE EXISTING STEAM SAFETY RELIEF VALVE.
12. REMOVE EXISTING EXPANSION LOOP.
13. REMOVE EXISTING PIPE UP TO EXISTING VALVE.
14. EXISTING SUMP.
15. BUSINESS ADMINISTRATION BUILDING. SEE DRAWING P-101 FOR WORK INSIDE THE BUILDING.
16. REMOVE EXISTING 6" STEAM PIPING.
17. REMOVE EXISTING 6" STEAM AND 2" CONDENSATE PIPING.

GENERAL NOTES

A. THERE ARE VARIOUS TYPES OF PIPE SUPPORTS. CONTRACTOR TO VERIFY TYPE AND REMOVE.

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DPW PROJECT #24-246
ISU: REPAIR UTILITY TUNNEL, PHASE 3

IDAHO STATE UNIVERSITY

STEAM PIPING IN TUNNEL DEMOLITION PLAN

DRAWN:GWM | CHECK: AJP

VERIFY SCALE: Scales based on 22"x34" prints.

1-1/2 Inches

PROJECT NO. 208106-119

SHEET NO. MD101

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FRAZIER HALL

PHYSICAL SCIENCE COMPLEX

SEE DRAWINGS MD101 AND M-101
FOR WORK IN THIS AREA

SEE DRAWING M-402
FOR WORK IN THIS AREA

ENGINEERING - LILLIBRIDGE

LIBERAL ARTS - KEGEL

ADMINISTRATION

1 / M-100 OVERALL SITE PLAN
SCALE: 1"=30'-0"
30 15 0 30 60

N

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HEATH
Engineering Company

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17725
09/02/25
STATE OF IDAHO
ANDREW J PASKETT

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DPW PROJECT #24-246
ISU: REPAIR UTILITY
TUNNEL, PHASE 3

IDAHO STATE UNIVERSITY

OVERALL SITE PLAN

DRAWN:GWM | CHECK: AJP

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO.
208106-119

SHEET NO.
M-100

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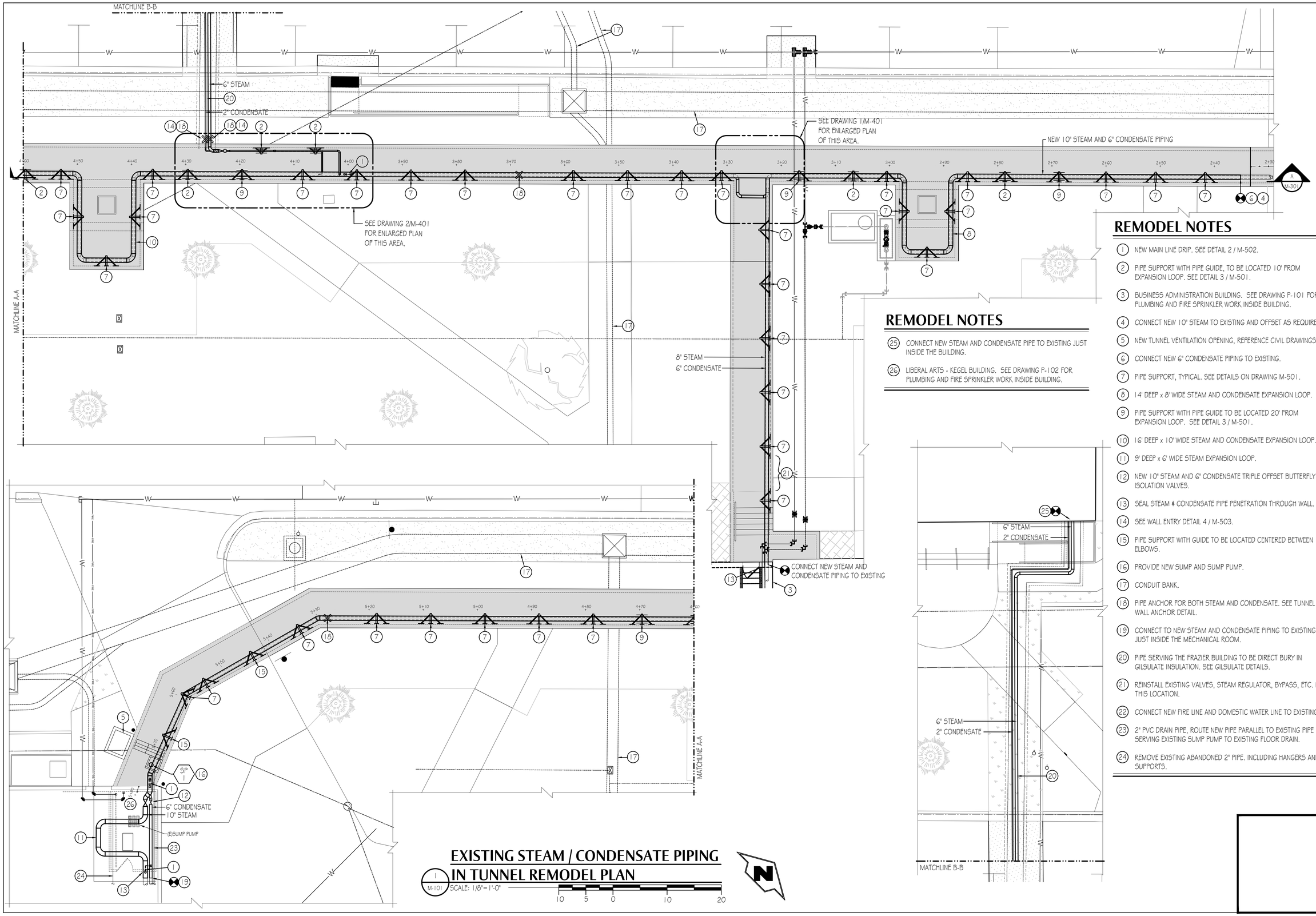

EXISTING STEAM / CONDENSATE PIPING IN TUNNEL REMODEL PLAN

1 / M-101 SCALE: 1/8"=1'-0"

10 5 0 10 20

REMODEL NOTES

25 CONNECT NEW STEAM AND CONDENSATE PIPE TO EXISTING JUST INSIDE THE BUILDING.

26 LIBERAL ARTS - KEGEL BUILDING. SEE DRAWING P-102 FOR PLUMBING AND FIRE SPRINKLER WORK INSIDE BUILDING.

REMODEL NOTES

1. NEW MAIN LINE DRIP. SEE DETAIL 2 / M-502.
2. PIPE SUPPORT WITH PIPE GUIDE, TO BE LOCATED 10' FROM EXPANSION LOOP. SEE DETAIL 3 / M-501.
3. BUSINESS ADMINISTRATION BUILDING. SEE DRAWING P-101 FOR PLUMBING AND FIRE SPRINKLER WORK INSIDE BUILDING.
4. CONNECT NEW 10" STEAM TO EXISTING AND OFFSET AS REQUIRED.
5. NEW TUNNEL VENTILATION OPENING, REFERENCE CIVIL DRAWINGS.
6. CONNECT NEW 6" CONDENSATE PIPING TO EXISTING.
7. PIPE SUPPORT, TYPICAL. SEE DETAILS ON DRAWING M-501.
8. 14' DEEP x 8' WIDE STEAM AND CONDENSATE EXPANSION LOOP.
9. PIPE SUPPORT WITH PIPE GUIDE TO BE LOCATED 20' FROM EXPANSION LOOP. SEE DETAIL 3 / M-501.
10. 16' DEEP x 10' WIDE STEAM AND CONDENSATE EXPANSION LOOP.
11. 9' DEEP x 6' WIDE STEAM EXPANSION LOOP.
12. NEW 10" STEAM AND 6" CONDENSATE TRIPLE OFFSET BUTTERFLY ISOLATION VALVES.
13. SEAL STEAM & CONDENSATE PIPE PENETRATION THROUGH WALL.
14. SEE WALL ENTRY DETAIL 4 / M-503.
15. PIPE SUPPORT WITH GUIDE TO BE LOCATED CENTERED BETWEEN ELBOWS.
16. PROVIDE NEW SUMP AND SUMP PUMP.
17. CONDUIT BANK.
18. PIPE ANCHOR FOR BOTH STEAM AND CONDENSATE. SEE TUNNEL WALL ANCHOR DETAIL.
19. CONNECT TO NEW STEAM AND CONDENSATE PIPING TO EXISTING JUST INSIDE THE MECHANICAL ROOM.
20. PIPE SERVING THE FRAZIER BUILDING TO BE DIRECT BURY IN GILSULATE INSULATION. SEE GILSULATE DETAILS.
21. REINSTALL EXISTING VALVES, STEAM REGULATOR, BYPASS, ETC. IN THIS LOCATION.
22. CONNECT NEW FIRE LINE AND DOMESTIC WATER LINE TO EXISTING.
23. 2" PVC DRAIN PIPE, ROUTE NEW PIPE PARALLEL TO EXISTING PIPE SERVING EXISTING SUMP PUMP TO EXISTING FLOOR DRAIN.
24. REMOVE EXISTING ABANDONED 2" PIPE. INCLUDING HANGERS AND SUPPORTS.

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NO.	REVISIONS	DATE

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DPW PROJECT #24-246
ISU: REPAIR UTILITY TUNNEL, PHASE 3

IDAHO STATE UNIVERSITY

STEAM PIPING IN TUNNEL REMODEL PLAN

DRAWN: GWM | CHECK: AJP

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO. 208106-119

SHEET NO. M-101

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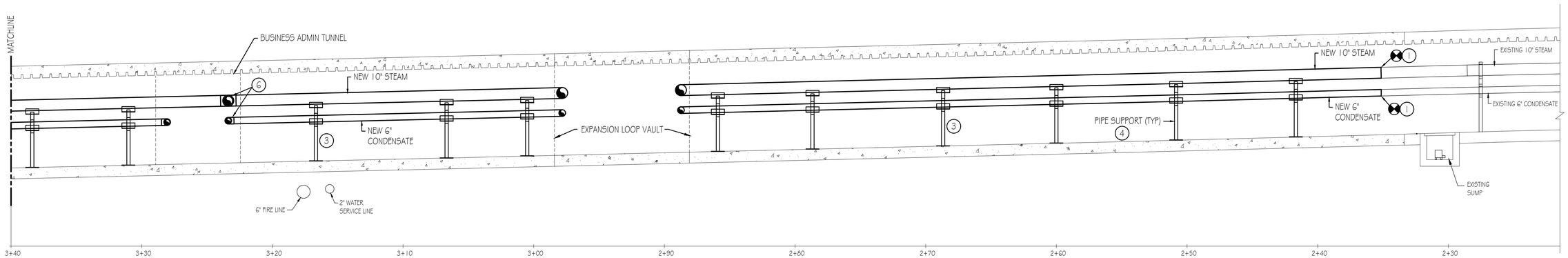
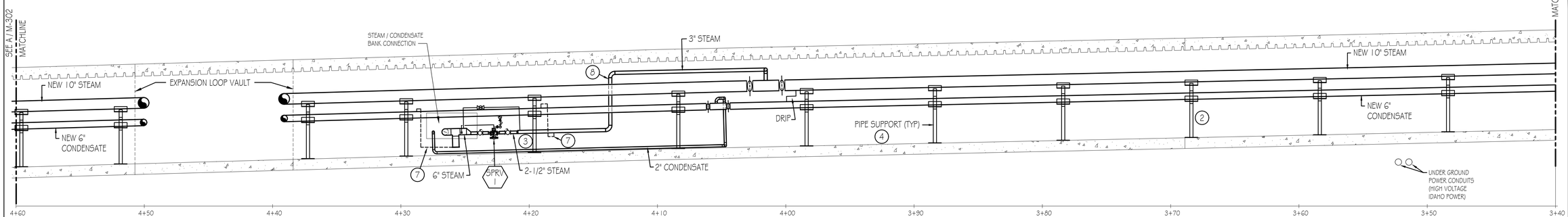
DRAWING NOTES

1. CONNECT NEW STEAM AND CONDENSATE PIPING TO EXISTING PIPING IN TUNNEL.
2. NEW PIPE ANCHOR. SEE DETAIL 2 / M-501.
3. PIPE GUIDE, SEE DETAIL 3 / M-501.
4. PIPE SUPPORT. SEE DETAILS ON DRAWING M-501.
5. SEAL PIPE PENETRATION THROUGH WALL W/ ANCHOR.
6. 8" STEAM AND 6" CONDENSATE TO THE BUSINESS ADMINISTRATION BUILDING.
7. MAIN LINE DRIP, SEE DETAIL 2 / M-502.
8. DROP 3" STEAM LINE 10' FROM CONNECTION TO MAIN 10" STEAM LINE.





A / M-301 TUNNEL - STEAM / COND. PIPING REMODEL SECTION

SCALE: 1/4"=1'-0"

5 0 10

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DPW PROJECT #24-246
ISU: REPAIR UTILITY TUNNEL, PHASE 3

IDAHO STATE UNIVERSITY

TUNNEL SECTION

DRAWN:GWM | CHECK: AJP

VERIFY SCALE: Scales based on 22"x34" prints.

1-1/2 Inches

PROJECT NO.
208106-119

SHEET NO.
M-301

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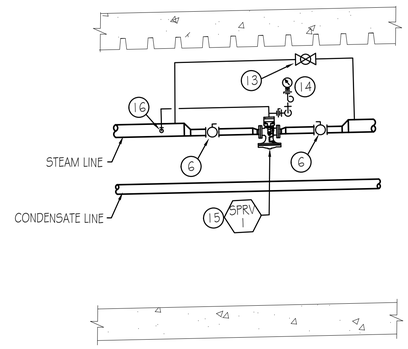


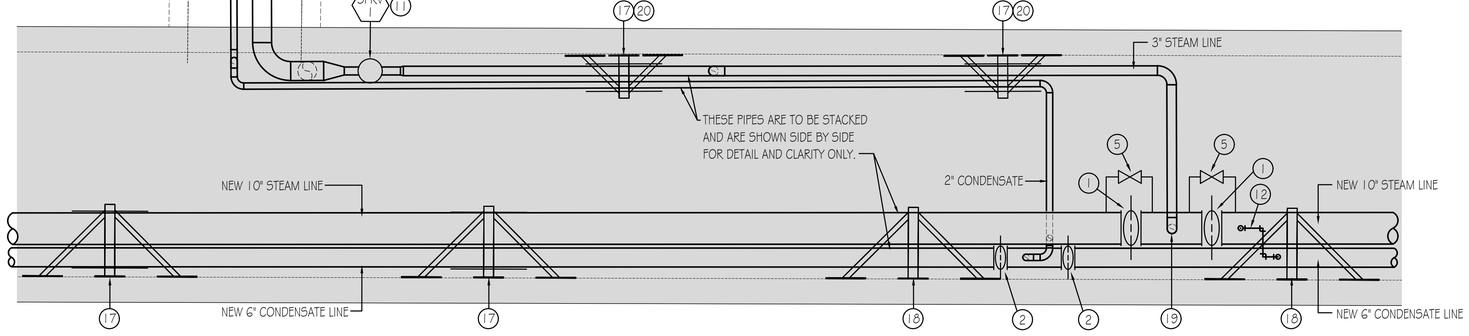
3 M-401 STEAM PRESSURE REGULATOR DETAIL

SCALE: NONE

DRAWING NOTES

11. NEW STEAM REGULATOR. REFERENCE DETAIL 3 / M-401.
12. NEW MAIN LINE DRIP. SEE DETAIL 2 / M-502.
13. 2" BYPASS WITH 2" GLOBE VALVE.
14. PRESSURE GAUGE WITH 3-1/2" DIA. GLASS CASE AND 4" LONG EXTENSION WITH PIG TAIL.
15. 2-1/2" STEAM PRESSURE REGULATOR.
16. SLOPE PRESSURE LINES DOWN TOWARDS PRESSURE SENSORS.
17. PIPE SUPPORT WITH PIPE GUIDE, TO BE LOCATED 10' FROM EXPANSION LOOP. SEE DETAIL 3 / M-501.
18. PIPE SUPPORT, TYPICAL. SEE DETAILS ON DRAWING M-501.
19. CONNECT 3" STEAM LINE APPROXIMATELY 24' FROM THE LOCATION WHERE PIPE TURNS TO SERVE THE FRAZIER HALL.
20. SIZE PIPE SUPPORT WITH PIPE GUIDE FOR SMALLER PIPE TO ALLOW FOR MORE WALKING CLEARANCE IN THE TUNNEL.

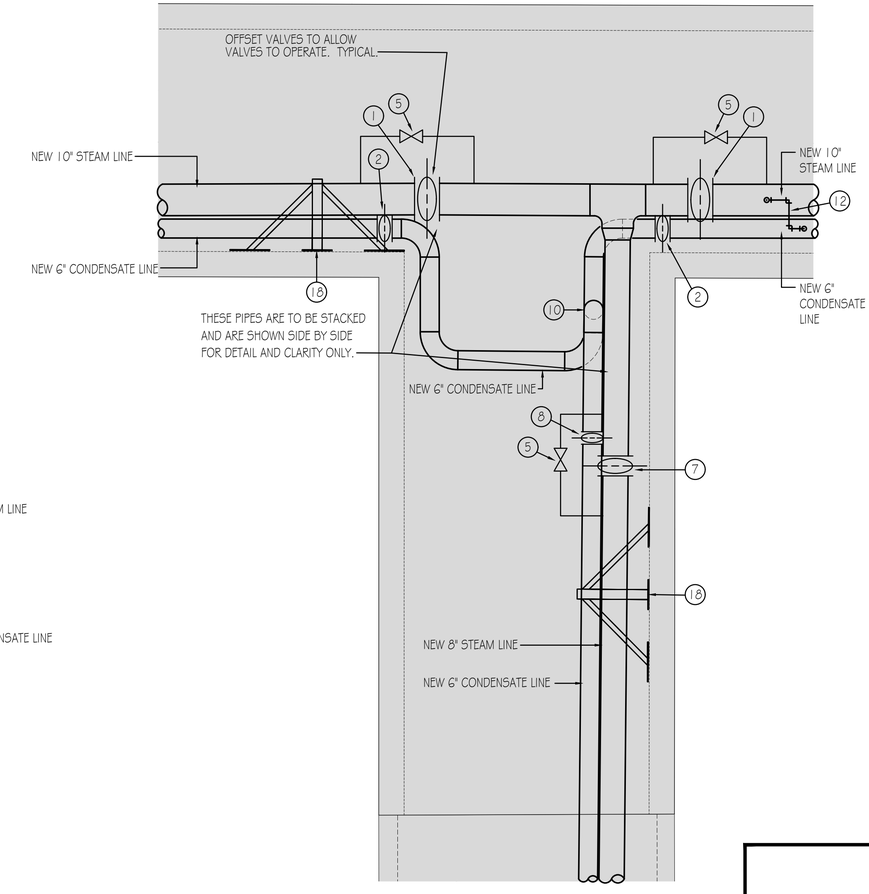
1. NEW 10" STEAM TRIPLE OFFSET BUTTERFLY ZONE VALVE.
2. NEW 6" CONDENSATE ZONE TRIPLE OFFSET BUTTERFLY VALVE.
3. NEW 3" CONDENSATE ZONE TRIPLE OFFSET BUTTERFLY VALVE.
4. NEW 6" STEAM ZONE TRIPLE OFFSET BUTTERFLY VALVE IN STEAM LINE. NEW 2" BALL VALVE IN CONDENSATE LINE.
5. NEW 1" BYPASS WARM-UP BALL VALVE.
6. 2-1/2" FLANGED BALL VALVE.
7. NEW 8" STEAM ZONE TRIPLE OFFSET BUTTERFLY VALVE.
8. NEW 6" CONDENSATE ZONE TRIPLE OFFSET BUTTERFLY VALVE.
9. 2" BYPASS WITH 2" GLOBE VALVE.
10. DROP 6" CONDENSATE FROM THE BUSINESS ADMINISTRATION BUILDING INTO THE TOP OF THE MAIN CONDENSATE PIPE.



2 M-401 ENLARGED TUNNEL REMODEL PLAN

SCALE: 1/2"= 1'-0"

2 0 5



1 M-401 ENLARGED TUNNEL REMODEL PLAN

SCALE: 1/2"= 1'-0"

2 0 5

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(208) 238-2146

HEATH Engineering Company

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NO.	REVISIONS	DATE
-	-	-

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DPW PROJECT #24-246
ISU: REPAIR UTILITY TUNNEL, PHASE 3

IDAHO STATE UNIVERSITY

ENLARGED TUNNEL REMODEL PLANS

DRAWN: GWM | CHECK: AJP

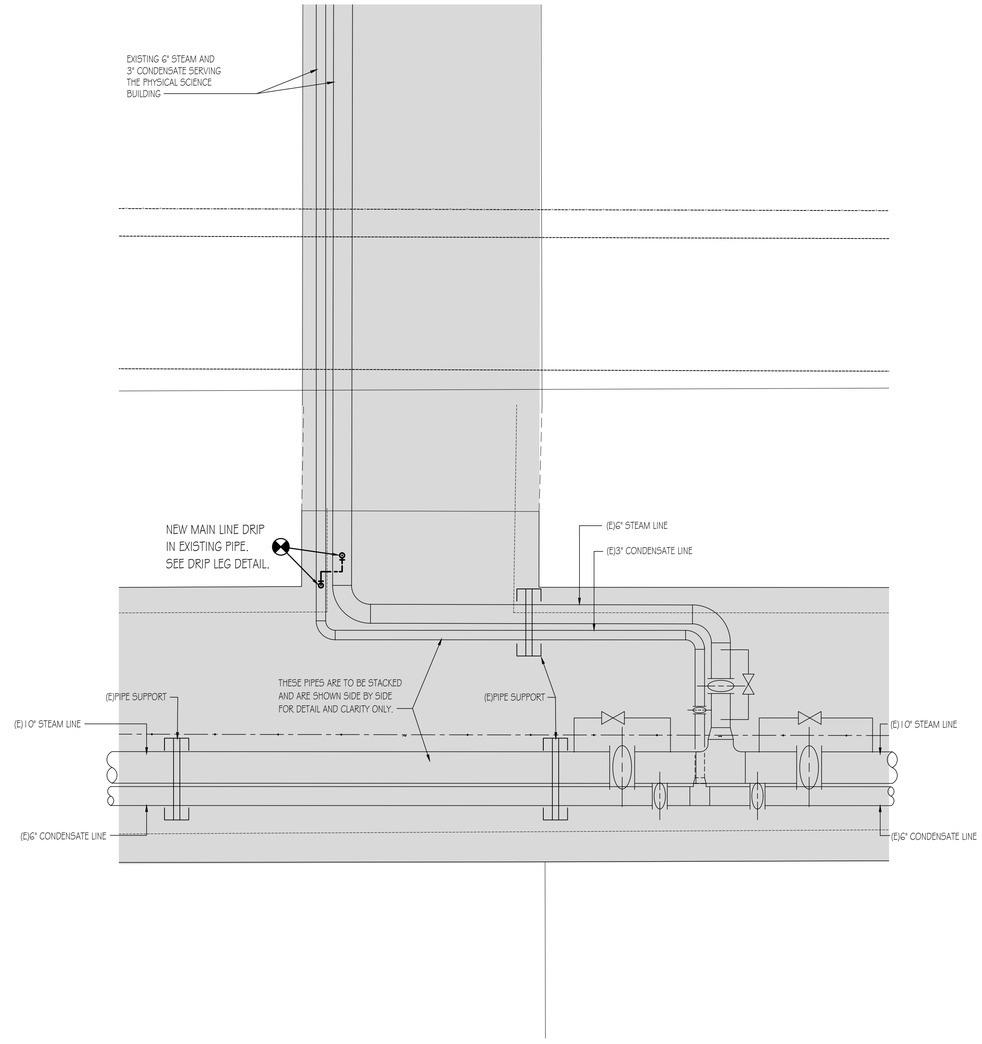
VERIFY SCALE: Scales based on 22"x34" prints.

1-1/2 Inches

PROJECT NO. 208106-119

SHEET NO. M-401

I:\24101\01 - DWG\ME\HSHEET\24101-M-401.dwg, 9/2/2025 1:05:37 PM, Heath Engineering Co. / gwm



1 M-402 **ENLARGED TUNNEL REMODEL PLAN**

SCALE: 1/2"= 1'-0"

2 0 5

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DPW PROJECT #24-246
ISU: REPAIR UTILITY TUNNEL, PHASE 3

IDAHO STATE UNIVERSITY

ENLARGED TUNNEL REMODEL PLANS

DRAWN:GWM | CHECK: AJP

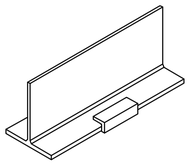
VERIFY SCALE: Scales based on 22"x34" prints.

1-1/2 Inches

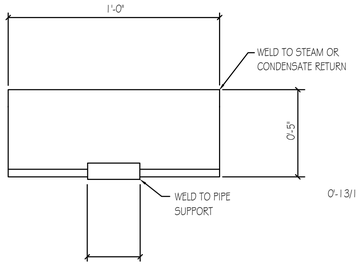
PROJECT NO.
208106-119

SHEET NO.
M-402

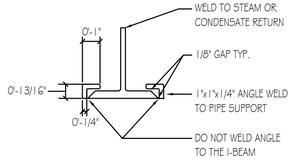
N:\24101\01 - DWG\MECH\SHEET\24101-M-402.dwg, 9/2/2025 1:05:42 PM, Heath Engineering Co. / gwm



ORTHO VIEW



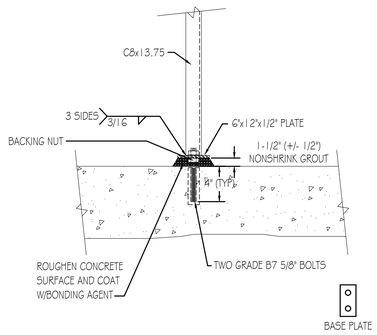
ELEVATION RIGHT



ELEVATION FRONT

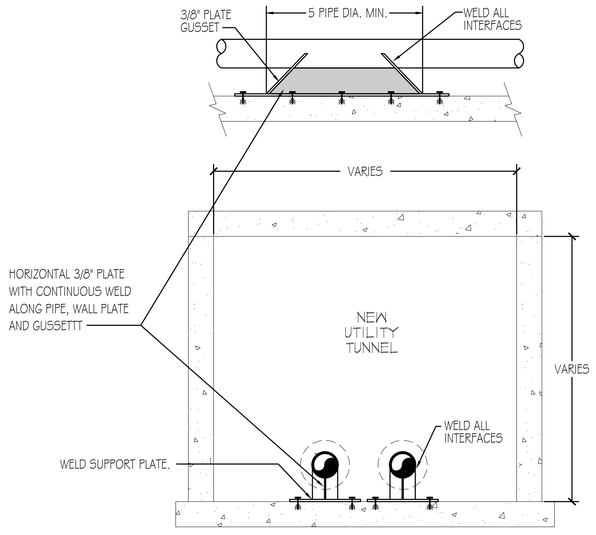
3 M-501 STEAM GUIDE DETAIL

SCALE: NONE



4 M-501 BASE PLATE DETAIL

SCALE: NONE

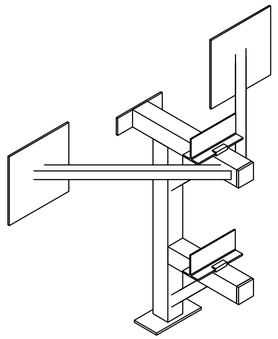


NOTE:
STEAM AND CONDENSATE PIPING SUPPORTS ARE TO BE SPACED AS REQUIRED BUT NOT FARTHER THAN 10'-0" ON CENTER.

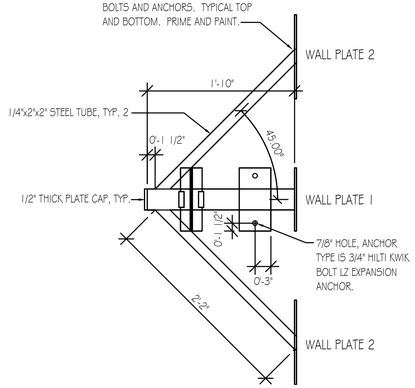
NOTE:
ANCHOR TYPE IS 3/4" HILTI KWIK BOLT TZ EXPANSION ANCHOR SPACED AT 8" O/C. THE ANCHORS ARE TO BE SET AT 5" EMBED. 12 ANCHORS MINIMUM ARE REQUIRED. SCANS SHOULD BE PERFORMED AS POSSIBLE TO AVOID REBAR.

5 M-501 ANCHOR DETAIL

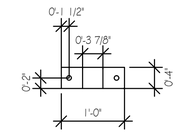
SCALE: NONE — FOR USE IN TUNNEL TO FRAZIER HALL



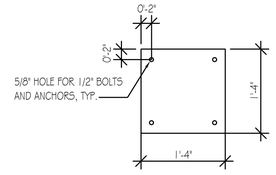
ORTHO VIEW



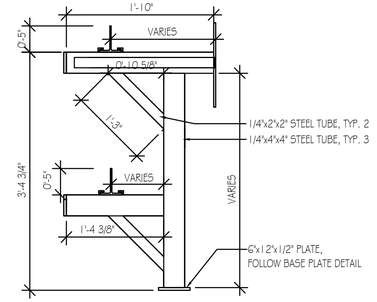
ELEVATION TOP



WALL PLATE 1



WALL PLATE 2

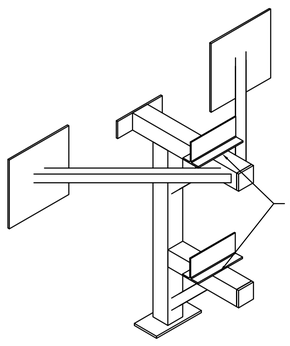


ELEVATION FRONT

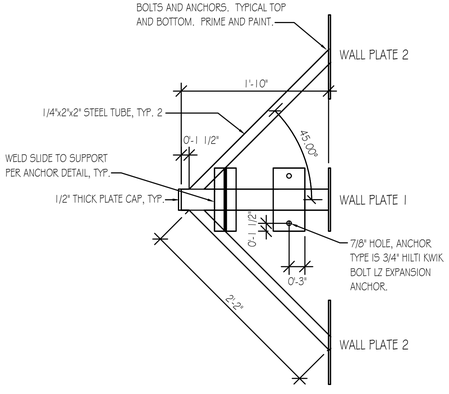
1 M-501 SLIDING HORIZONTAL PIPE SUPPORT DETAIL

SCALE: NONE

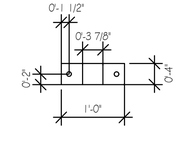
NOTE: ALLOW 4" OF SLIDE FOR STEAM AND 2" OF SLIDE FOR CONDENSATE FROM COLD TEMPERATURE TO HOT TEMPERATURE



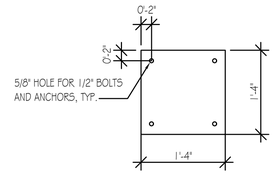
ORTHO VIEW



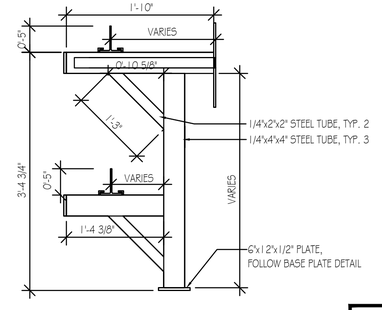
ELEVATION TOP



WALL PLATE 1



WALL PLATE 2



ELEVATION FRONT

2 M-501 ANCHOR DETAIL

SCALE: NONE

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NO.	REVISIONS	DATE
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DPW PROJECT #24-246
ISU: REPAIR UTILITY TUNNEL, PHASE 3

IDAHO STATE UNIVERSITY

PIPING SUPPORT, GUIDE, AND ANCHOR DETAILS

DRAWN: GWM | CHECK: AJP

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO.
208106-119

SHEET NO.
M-501

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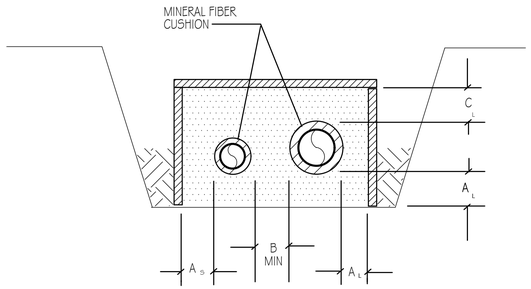


SEC. B-B
AT FIBER CUSHIONS

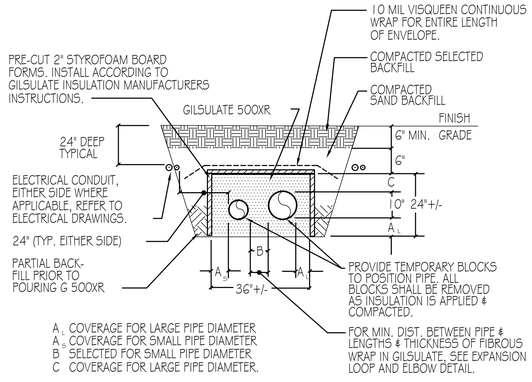
NOTES:
1. FOR LENGTHS AND THICKNESS OF FIBROUS WRAP, SEE DRAWING NOTES.
2. PROVIDE MIN. 1" SPACE BETWEEN CUSHIONS. MAINTAIN GILSULATE DIMENSIONS OUTSIDE OF MINERAL FIBER CUSHIONS.

5 M-502 PIPE EXPANSION DETAIL SECTION
SCALE: NONE

ADD 2 INCHES TO C DIMENSION UNDER STREETS, PARKING LOTS AND RAILROAD TRACKS.

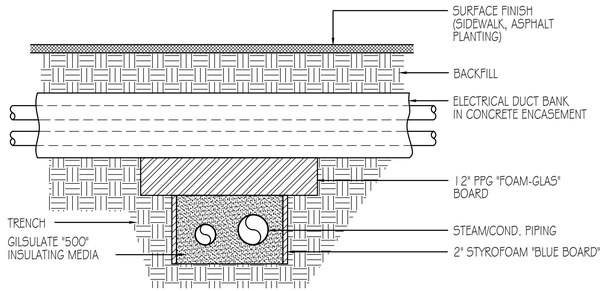
GILSULATE 500$_{XR}$ ENVELOPE DIMENSIONS					
NOM. PIPE SIZE	OUTSIDE DIA.	PIPE AREA SQ. IN.	OPERATING TEMP. 301°F TO 400°F A	B	C
1	1.315	1.36	3	4	4
2	2.375	4.43	4	4	5
2 1/2-3	3.500	9.62	4	4	5
4	4.500	15.90	5	4	6
5	5.563	24.31	5	5	6
6	6.625	34.47	5	5	6
8	8.625	58.43	6	5	7
10	10.750	90.76	6	5	7
12	12.75	111.93	6	5	7

TABLE FOR ENVELOPE DETAILS

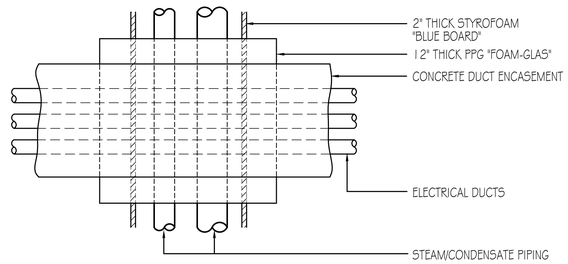


A L COVERAGE FOR LARGE PIPE DIAMETER
A S COVERAGE FOR SMALL PIPE DIAMETER
B SELECTED FOR SMALL PIPE DIAMETER
C COVERAGE FOR LARGE PIPE DIAMETER.

6 M-502 UNDERGROUND INSULATING ENVELOPE DETAIL
SCALE: NONE

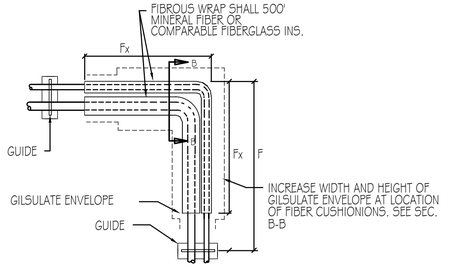


SECTION



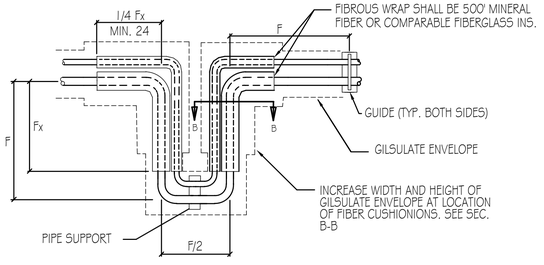
PLAN

3 M-502 CROSS OVER - STEAM/COND. AT ELECTRICAL DUCTBANK
SCALE: NONE



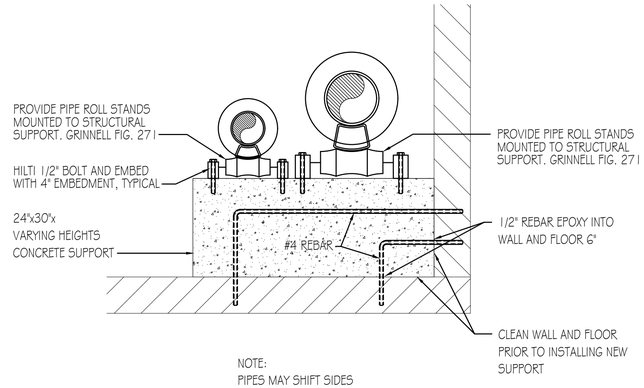
EXPANSION ELBOW DETAIL

PIPE SIZE (IN)	F (FT)	Fx (FT)
1-2	6	4.5
3-4	10	7.5
5-6	14	10.5
8	18	13.5
10	20	15
12	22	16.5
14	24	18
16	26	19.5
18	28	21
20	30	22.5



EXPANSION LOOP DETAIL

4 M-502 PIPE EXPANSION DETAILS
SCALE: NONE



NOTE:
PIPES MAY SHIFT SIDES BASED ON LOCATION IN TUNNEL.

1 M-502 EXISTING CONCRETE PIPE SUPPORT DETAIL - FOR REFERENCE ONLY
SCALE: NONE

2 M-502 DRIP LEG DETAIL
SCALE: NONE

GENERAL NOTES

A. FOR THIS PROJECT THE EXISTING UNDERGROUND PIPE CHASE/TUNNEL MAY BE USED AS FORMS FOR THE GILSULATE INSULATION. FOLLOW THE DETAILS AS NOTED FOR THE TOP OF THE INSULATING ENVELOPE.

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HEATH Engineering Company

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NO.	REVISIONS	DATE

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DPW PROJECT #24-246
ISU: REPAIR UTILITY TUNNEL, PHASE 3

IDAHO STATE UNIVERSITY

PIPING DETAILS

DRAWN:GWM | CHECK: AJP

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO.
208106-119

SHEET NO.
M-502

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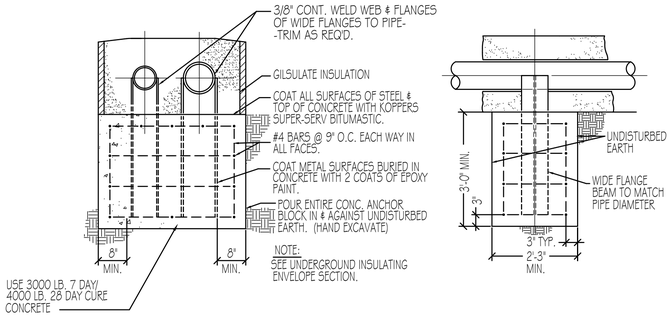
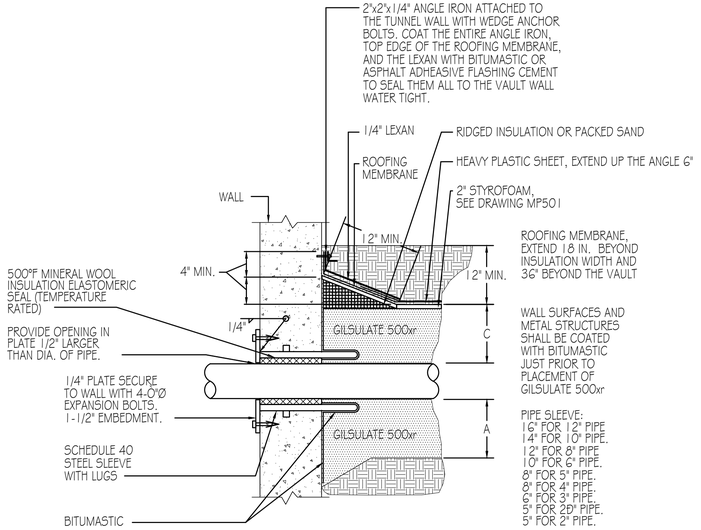


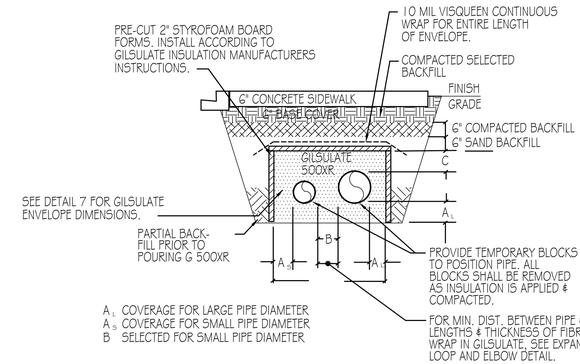
6 M-503 TYPICAL ANCHOR DETAIL

SCALE: NONE



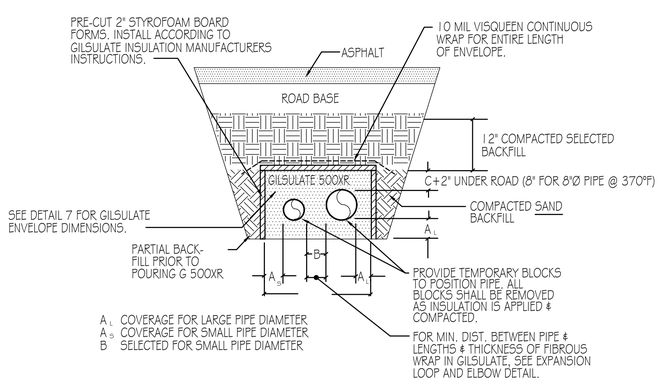
4 M-503 WALL ENTRY (GILSULATE) DETAIL

SCALE: NONE



1 M-503 CURB/SIDEWALK INSULATED ENVELOPE DETAIL

SCALE: NONE

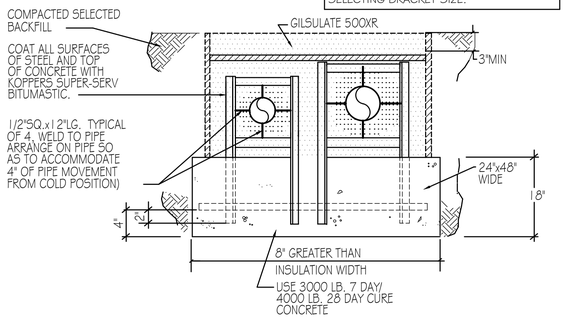


2 M-503 PARKING INSULATED ENVELOPE DETAIL

SCALE: NONE

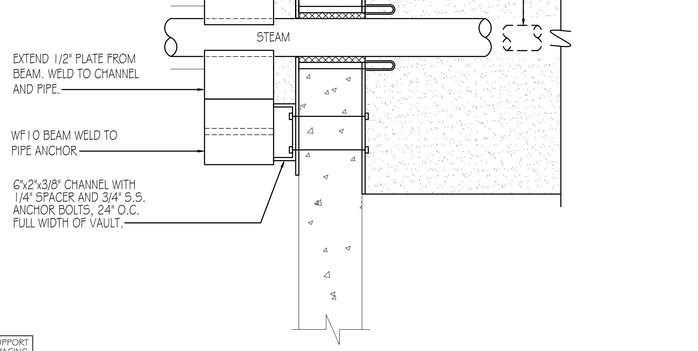
NOTES:
1. ALL METAL PARTS MUST BE COMPLETELY ENCLOSED IN GILSULATE. CONCRETE AND METAL SURFACES SHALL BE COATED TWICE WITH KOPPERS SUPER-SERV BITUMASTIC.
2. SEE UNDERGROUND INSULATING ENVELOPE SECTION.
3. COAT METAL SURFACES BURIED IN CONCRETE WITH (2) COATS OF EPOXY PAINT.

NOM. PIPE SIZE IN.	BRACKET SIZE, BAR OR ANGLE IN.
1&2	1-3/4" x 1-3/4" x 1/4"
3&4	1-3/4" x 1-3/4" x 1/4"
5&6	1-3/4" x 1-3/4" x 1/4"
8	1-3/4" x 1-3/4" x 1/4"
10&12	2-1/2" x 2-1/2" x 1/4"
14	3" x 3"x 1/4"
16&18	3-1/2" x 3-1/2" x 1/4"
20	3-1/2" x 3-1/2" x 1/4"
USE LARGER DIAMETER PIPE FOR SELECTING BRACKET SIZE.	



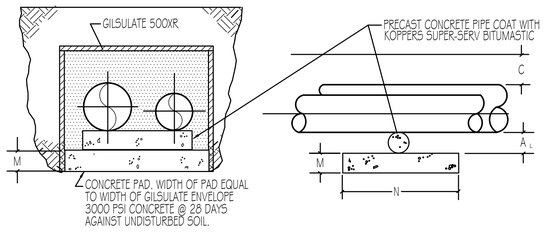
7 M-503 PIPE GUIDES DETAIL

SCALE: NONE



5 M-503 TUNNEL WALL ANCHOR DETAIL

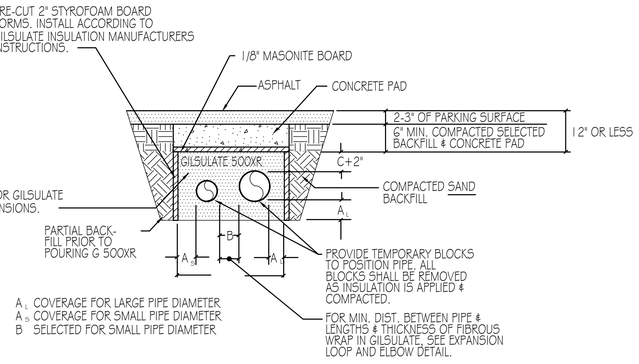
SCALE: NONE



PIPE DIAM. (IN.)	BEARING PAD M (IN.)	BEARING PAD N (IN.)	SUPPORT SPACING (FT.)
1,2	NONE	10	10
3,4	4	10	20
5	4	10	25
6	4	12	25
8	4	12	25
10	4	12	25
12	5	12	25
14	5	15	40
16	8	15	40
18	8	15	40
20	8	15	40
24	10	18	40
USE LARGER DIAMETER PIPE FOR SELECTING "M" AND "N"			

8 M-503 PIPE SUPPORT DETAIL

SCALE: NONE



PARKING (WHERE BACKFILL IS 1'-0 OR LESS) INSULATED ENVELOPE DETAIL

3 M-503 SCALE: NONE

GENERAL NOTES

A. FOR THIS PROJECT THE EXISTING UNDERGROUND PIPE CHASE/TUNNEL MAY BE USED AS FORMS FOR THE GILSULATE INSULATION. FOLLOW THE DETAILS AS NOTED FOR THE TOP OF THE INSULATING ENVELOPE.

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NO.	REVISIONS	DATE
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DPW PROJECT #24-246
ISU: REPAIR UTILITY TUNNEL, PHASE 3

IDAHO STATE UNIVERSITY

PIPING DETAILS

DRAWN:GWM | CHECK: AJP

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO. 208106-119

SHEET NO. M-503

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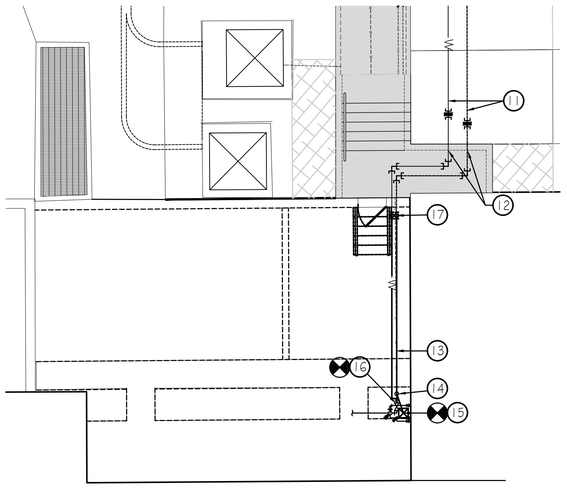
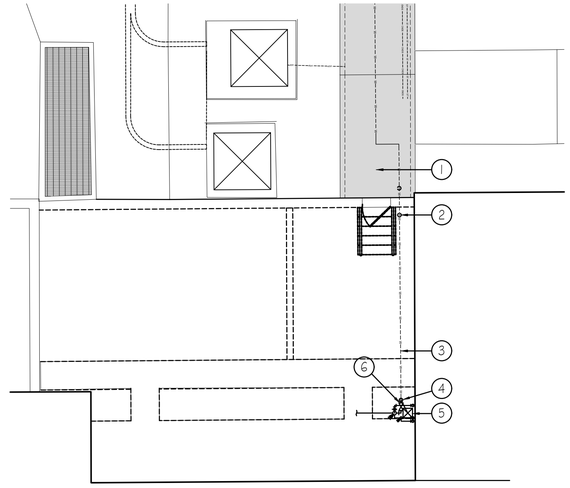


BUSINESS ADMINISTRATION BUILDING
DOMESTIC AND FIRE WATER AND REMODEL PLAN

2 / P-101 SCALE: 1/8"= 1'-0"

10 5 0 10 20



BUSINESS ADMINISTRATION BUILDING
DOMESTIC AND FIRE WATER AND DEMOLITION PLAN

1 / P-101 SCALE: 1/8"= 1'-0"

10 5 0 10 20

DRAWING NOTES

1. EXISTING 6" WATER LINE IN TUNNEL TO BE REMOVED. REFER TO CIVIL PLANS.
2. REMOVE EXISTING 4" DOMESTIC WATER PIPE DROP AT WALL AND TO BELOW THE CONCRETE LANDING PREPARATORY FOR NEW. SEE REMODEL PLAN FOR NEW ROUTING.
3. REMOVE EXISTING 6" DOMESTIC WATER SUPPLY LINE LOCATED JUST BELOW THE CONCRETE LANDING.
4. REMOVE EXISTING 4" DOMESTIC WATER SUPPLY TO EXISTING FIRE SPRINKLER RISER. REMOVE TO BOTTOM GROOVED FITTING CONNECTION PREPARATORY FOR NEW CONNECTION. PROTECT EXISTING FIRE RISER DURING CONSTRUCTION.
5. EXISTING 4" FIRE RISER ASSEMBLY TO REMAIN. PROTECT DURING CONSTRUCTION.
6. REMOVE EXISTING DOMESTIC WATER SUPPLY LINE TO FLANGED CONNECTION AT EXISTING GATE VALVE. EXISTING DOMESTIC WATER GATE VALVE TO REMAIN IN PLACE AND BE PROTECTED DURING CONSTRUCTION.
7. THROUGH 10. NOT USED.
11. NEW 6" FIRE AND 4" DOMESTIC WATER SUPPLY. REFER TO CIVIL PLANS FOR ROUTING AND INSTALLATION REQUIREMENTS.
12. CONNECT TO NEW 6" FIRE AND 4" DOMESTIC WATER SUPPLY PIPING JUST INSIDE TUNNEL WALL AND EXTEND AND CONNECT TO EXISTING AS SHOWN. SEE CIVIL PLANS FOR WALL PENETRATION DETAIL.
13. NEW 6" FIRE AND 4" WATER PIPE. ROUTE JUST BELOW EXISTING CONCRETE LANDING.
14. OFFSET NEW 6"FIRE AND 4" WATER AS REQUIRED TO MAKE NEW CONNECTION TO EXISTING. FIELD VERIFY.
15. CONNECT NEW 6" FIRE WATER SUPPLY TO EXISTING 4" FIRE SPRINKLER RISER AT BASE OF RISER WITH GROOVED FITTING.
16. CONNECT NEW 4" WATER TO EXISTING AT FLANGE CONNECTION TO EXISTING GATE VALVE.
17. DROP PIPING TO MATCH ELEVATION OF EXISTING TO ACCOMMODATE NEW CONNECTIONS. SEE CIVIL DETAIL b# ON SHEET C508.

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HEATH Engineering Company

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NO.	REVISIONS	DATE

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DPW PROJECT #24-246
ISU: REPAIR UTILITY TUNNEL, PHASE 3

IDAHO STATE UNIVERSITY

BUSINESS ADMINISTRATION BUILDING PLUMBING PLANS

DRAWN:GWM | CHECK: AJP

VERIFY SCALE: Scales based on 22"x34" prints.

1-1/2 Inches

PROJECT NO. 208106-119

SHEET NO. P-101

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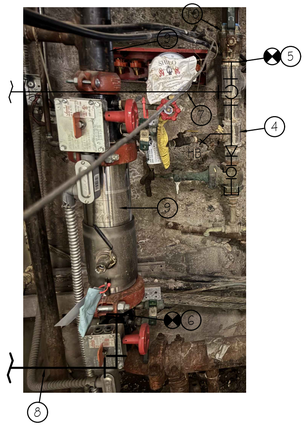
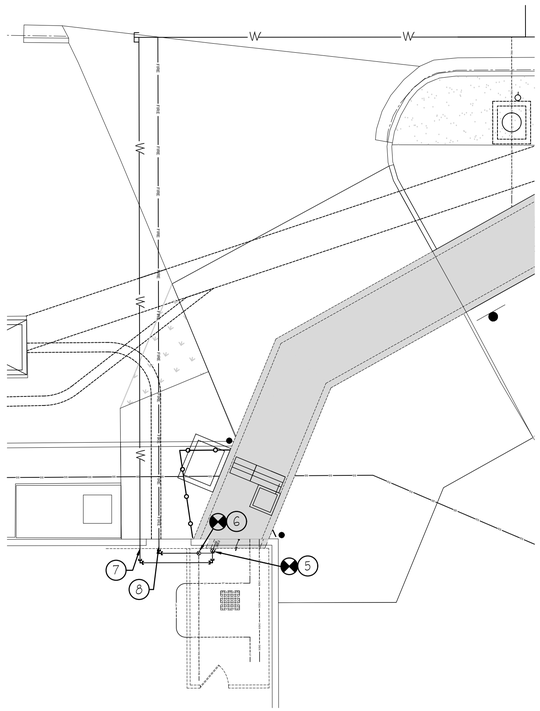
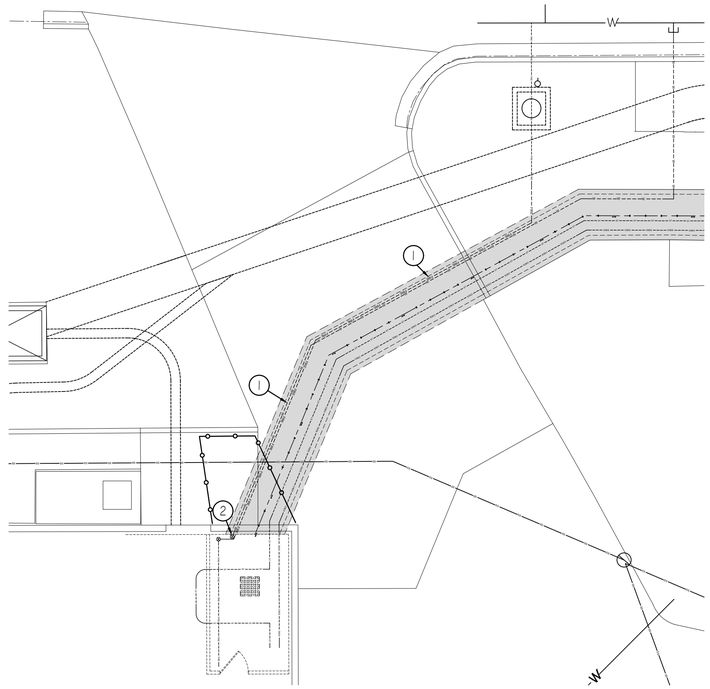




LIBERAL ARTS - KEGEL BUILDING
DOMESTIC AND FIRE WATER AND REMODEL PLAN

2 / P-102 SCALE: 1/8"= 1'-0"

10 5 0 10 20



LIBERAL ARTS - KEGEL BUILDING
DOMESTIC AND FIRE WATER AND DEMOLITION PLAN

1 / P-102 SCALE: 1/8"= 1'-0"

10 5 0 10 20

DRAWING NOTES

1. EXISTING 2" GALVANIZED DOMESTIC AND 3" GROOVED BLACK STEEL FIRE WATER LINES IN TUNNEL TO BE REMOVED. REFER TO CIVIL PLANS.
2. REMOVE EXISTING 2" DOMESTIC WATER VALVE ASSEMBLY NEAR ENTRANCE TO TUNNEL COMPLETE INCLUDING HOSE BIBBS, GATE VALVES AND GALVANIZED TEE PREPARATORY FOR NEW. PROTECT EXISTING BALL VALVE AND COPPER RISER PIPE DURING OCNSTRUCTION. SEE REMODEL PLAN FOR NEW CONNECITON.
3. REMOVE 3" FIRE WATER LINE TO INLET CONNECTION OF FIRE RISER BACKFLOW PREVENTER PREPARATORY FOR NEW IN SAME LOCATION.
4. PROVIDE NEW 2" WATER VALVE ASSEMBLY CONSISTING OF NEW COPPER PIPE AND FITTINGS, 2"X3/4" TEE WITH HOSE BIBB, 2"X3/4" REDUCER, 3/4" BALL VALVE WITH CAP AND CHAIN.
5. CONNECT NEW 2" COPPER PIPE TO EXISTING BALL VALVE.
6. CONNECT NEW 3" FIRE WATER PIPE TO THE INLET CONNECTION OF THE EXISTING BACKLOW PREVENTER SIMILAR TO EXISTING.
7. CONNECT NEW 2" DOMESTIC WATER SUPPLY LINE TO NEW 2" SUPPLY JUST INSIDE MECHANICAL ROOM. REFER TO CIVIL UTILITY PLANS FOR CONTINUATION.
8. CONNECT NEW 3" FIRE WATER LINE TO NEW 4" SUPPLY JUST INSIDE MECHANICAL ROOM. REFER TO CIVIL UTILITY PLANS FOR CONTINUATION.
9. PROTECT EXISTING FIRE RISER ASSEMBLY DURING CONSTRUCTION. PROVIDE TEMPORARY SUPPORT AS REQUIRED.
10. PROTECT EXISTING 2" DOMESTIC WATER BALL VALVE AND PIPE RISER DURING CONSTRUCTION.

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DPW PROJECT #24-246
ISU: REPAIR UTILITY TUNNEL, PHASE 3

IDAHO STATE UNIVERSITY

LIBERAL ARTS - KEGEL BUILDING
PLUMBING PLANS

DRAWN:GWM CHECK: AJP

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO.
208106-119

SHEET NO.
P-102

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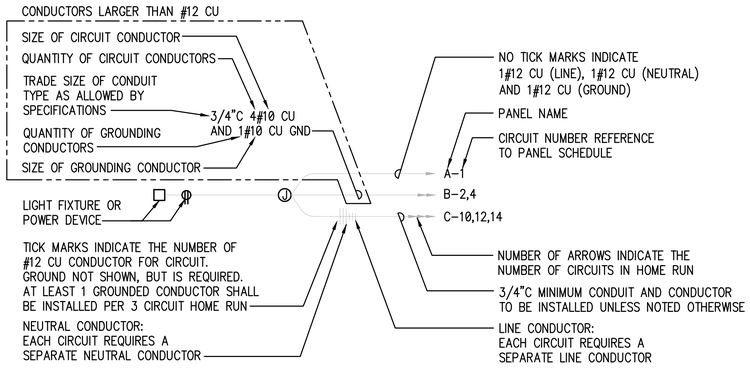
CIRCUITING LEGEND



SITE ELECTRICAL LEGEND

- SINGLE PHASE UTILITY TRANSFORMER GROUND SLEEVE
- THREE PHASE UTILITY TRANSFORMER AND MOUNTING PAD
- UTILITY PRIMARY POWER GROUND SLEEVE
- FIBER OPTIC VAULT
- CENTURY LINK PEDESTAL
- CABLE ONE PEDESTAL
- MYERS POWER PEDESTAL
- IRRIGATION CONTROLLER
- STREET LIGHT POLE WITH LUMINAIRE FIXTURE TYPE XXX NUMBER IDENTIFIED
- STREET LIGHT POLE WITH LUMINAIRE FIXTURE TYPE XXX NUMBER IDENTIFIED
- PARKING LOT LIGHT POLE WITH LUMINAIRE FIXTURE TYPE XXX NUMBER IDENTIFIED
- PARKING LOT LIGHT POLE WITH LUMINAIRE FIXTURE TYPE XXX NUMBER IDENTIFIED
- 13x24 LIGHTING JUNCTION BOX

NOTE: ALL SYMBOLS MAY NOT BE USED ON THIS PROJECT

LIGHTING LEGEND

LIGHT FIXTURE TYPE AND ZONING DESCRIPTION:
UPPER CASE LETTER DESIGNATES FIXTURE TYPE AS INDICATED ON LIGHTING FIXTURE SCHEDULE
LOWER CASE LETTER DESIGNATES SWITCHING ZONE

- LIGHT FIXTURE, SURFACE MOUNTED TO STRUCTURE
- LIGHT FIXTURE, SURFACE MOUNTED TO STRUCTURE WITH EMERGENCY BATTERY PACK
- LIGHT FIXTURE, SURFACE MOUNTED TO STRUCTURE WITH UNSWITCHED CONTINUOUS NIGHT LIGHT OPERATION
- LIGHT FIXTURE, WALL MOUNTED, SCONCE
- LIGHT FIXTURE, WALL MOUNTED, SCONCE WITH EMERGENCY BATTERY PACK
- LIGHT FIXTURE, WALL MOUNTED, SCONCE WITH UNSWITCHED CONTINUOUS NIGHT LIGHT OPERATION
- EXTERIOR WALL MOUNTED FIXTURE
- EXTERIOR WALL MOUNTED FIXTURE WITH EMERGENCY BATTERY PACK
- WALL OR CEILING MOUNTED EXIT LIGHT ARROWS INDICATE DIRECTION OF NEAREST EXIT
- WALL OR CEILING MOUNTED COMBINATION EMERGENCY AND EXIT LIGHT, ARROWS INDICATE DIRECTION OF NEAREST EXIT
- REMOTE HEAD EMERGENCY LIGHT
- EMERGENCY LIGHT
- SWITCH AT +48"
  TOP – LOWER CASE LETTER DESIGNATES SWITCHING ZONE
  BOTTOM – UPPER CASE LETTER DESIGNATES SWITCH TYPE
  - 3 INDICATES 3 WAY SWITCH
  - 4 INDICATES 4 WAY SWITCH
  - D DIMMER
  - T TIMER
  - F FAN SWITCH
- WALL MOUNT OCCUPANCY SENSOR

NOTE: ALL SYMBOLS MAY NOT BE USED ON THIS PROJECT

POWER LEGEND

- MANUAL MOTOR STARTER SWITCH
- TIMECLOCK
- CONTACTOR
- IRRIGATION CONTROL PANEL
- DISCONNECT SWITCH XP-XA-X — POLES, AMPS, AND NEMA ENCLOSURE TYPE AS NOTED
- FUSED DISCONNECT SWITCH XP-XA-X XA FUSES — POLES, AMPS, NEMA ENCLOSURE TYPE, AND FUSE SIZE AS NOTED
- THERMOSTAT, AT +48 INCHES
- MOTOR
  - F INDICATES FAN (FRACTIONAL HORSEPOWER)
  - # INDICATES MOTOR SIZE (IN HORSEPOWER)
- JUNCTION BOX
- RECESSED AUDIO SPEAKER
- VOLUME CONTROL, AT +48 INCHES
- ELECTRICAL PANEL
- SURFACE RACEWAY
- GFI C SPD WP — DUPLEX RECEPTACLE AT +18 INCHES UNLESS NOTED OTHERWISE
  - GFI GROUND FAULT INTERRUPTER
  - C MOUNTED ON CEILING
  - SPD SURGE SUPPRESSION
  - WP IN-USE WEATHERPROOF RATED COVER WITH WEATHER RESISTANT GFI RECEPTACLE
- GFI C SPD WP — DOUBLE DUPLEX RECEPTACLE AT +18 INCHES UNLESS NOTED OTHERWISE
  - GFI GROUND FAULT INTERRUPTER
  - C MOUNTED ON CEILING
  - SPD SURGE SUPPRESSION
  - WP IN-USE WEATHERPROOF RATED COVER WITH WEATHER RESISTANT GFI RECEPTACLE
- DATA/COMM/POWER FLOOR BOX
- RECESSED ENTERTAINMENT BOX
- CARD READER BOX
- TELEVISION DUPLEX RECEPTACLE AND CABLE JUNCTION BOX LOCATION
- 30A, 250V SPECIAL PURPOSE RECEPTACLE VERIFY NEMA PLUG TYPE REQUIRED PRIOR TO INSTALLATION
- 50A, 250V SPECIAL PURPOSE RECEPTACLE VERIFY NEMA PLUG TYPE REQUIRED PRIOR TO INSTALLATION
- ELECTRICAL METER
- CT — CURRENT TRANSFORMER CABINET SIZE AS INDICATED ON DRAWINGS
- UNIT HEATER SIZE AS INDICATED ON DRAWINGS
- FAN FORCED WALL HEATER SIZE AS INDICATED ON DRAWINGS
- WH — WATER HEATER SIZE AND TYPE AS INDICATED ON DRAWINGS
- ELECTRIC BASEBOARD HEATER SIZE AND TYPE AS INDICATED ON DRAWINGS
- MECHANICAL EQUIPMENT CALLOUT

NOTE: ALL SYMBOLS MAY NOT BE USED ON THIS PROJECT

ABBREVIATIONS

A	AMPERE(S)
AL	ALUMINUM
AIC	AMPERE INTERRUPTING CAPACITY
AWG	AMERICAN WIRE GAUGE
BC	BARE COPPER
C	CONDUIT
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CT	CURRENT TRANSFORMER
CU	COPPER
DISC	DISCONNECT
DWG	DRAWING
EMT	ELECTRICAL METALLIC TUBING
HZ	FREQUENCY IN CYCLES PER SECOND
F	FUSE
FS	FUSIBLE SWITCH
GEN	GENERATOR
GFI	GROUND FAULT INTERRUPTER
GND	GROUND
HP	HORSEPOWER
HPS	HIGH PRESSURE SODIUM
IMC	INTERMEDIATE METALLIC CONDUIT
INC	INCANDESCENT
KV	KILOVOLT
KVA	KILOWATT VOLT AMPS
KW	KILOWATT(S)
KCMIL	THOUSAND CIRCULAR MIL(S)
MCA	MINIMUM CIRCUIT AMPS
MCC	MOTOR CONTROL CENTER
MLO	MAIN LUG ONLY
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NEC	NATIONAL ELECTRIC CODE
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
PNL	PANEL
PVC	POLYVINYL CHLORIDE
RGS	RIGID GALVANIZED STEEL
SWBD	SWITCHBOARD
XMFR	TRANSFORMER
TYP	TYPICAL
UG	UNDERGROUND
UNO	UNLESS NOTED OTHERWISE
UPS	UNINTERRUPTED POWER SYSTEM
V	VOLT(S)
VA	VOLTAMP(S)
W	WATT(S)
WP	WEATHER PROOF

Project Codes:

- 2018 INTERNATIONAL BUILDING CODE WITH AMENDMENTS.
- 2018 INTERNATIONAL ENERGY CONSERVATION CODE WITH AMENDMENTS.
- 2018 IDAHO ENERGY CONSERVATION CODE.
- 2018 INTERNATIONAL FIRE CODE.
- 2023 NATIONAL ELECTRICAL CODE WITH AMENDMENTS.

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PROJECT NO. 24-264

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PROFESSIONAL ENGINEER REGISTERED 12731 8/25/2025 STATE OF IDAHO NICK SCHAFER

NO.	REVISIONS	DATE
1	REVISION #1	7/15/2022

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DPW PROJECT #24246
ISU: UTILITY TUNNEL PHASE 3

IDAHO STATE UNIVERSITY

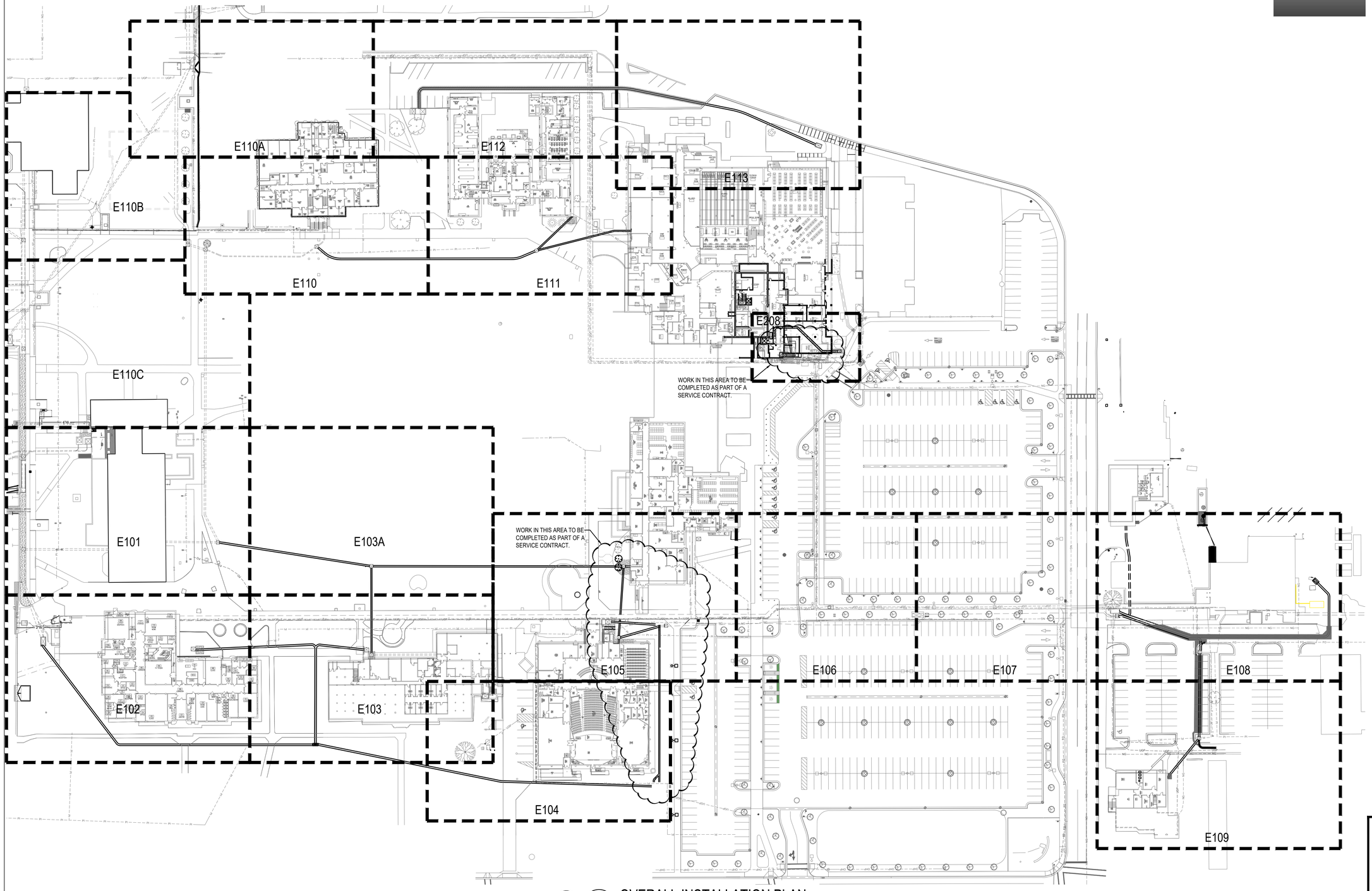
ELECTRICAL TITLE SHEET

DRAWN: DBH | CHECK: MNB

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO.
208106-088

SHEET NO.
E000



1 OVERALL INSTALLATION PLAN
1" = 50'-0"

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DPW PROJECT #24246
ISU: UTILITY TUNNEL
PHASE 3

IDAHO STATE UNIVERSITY

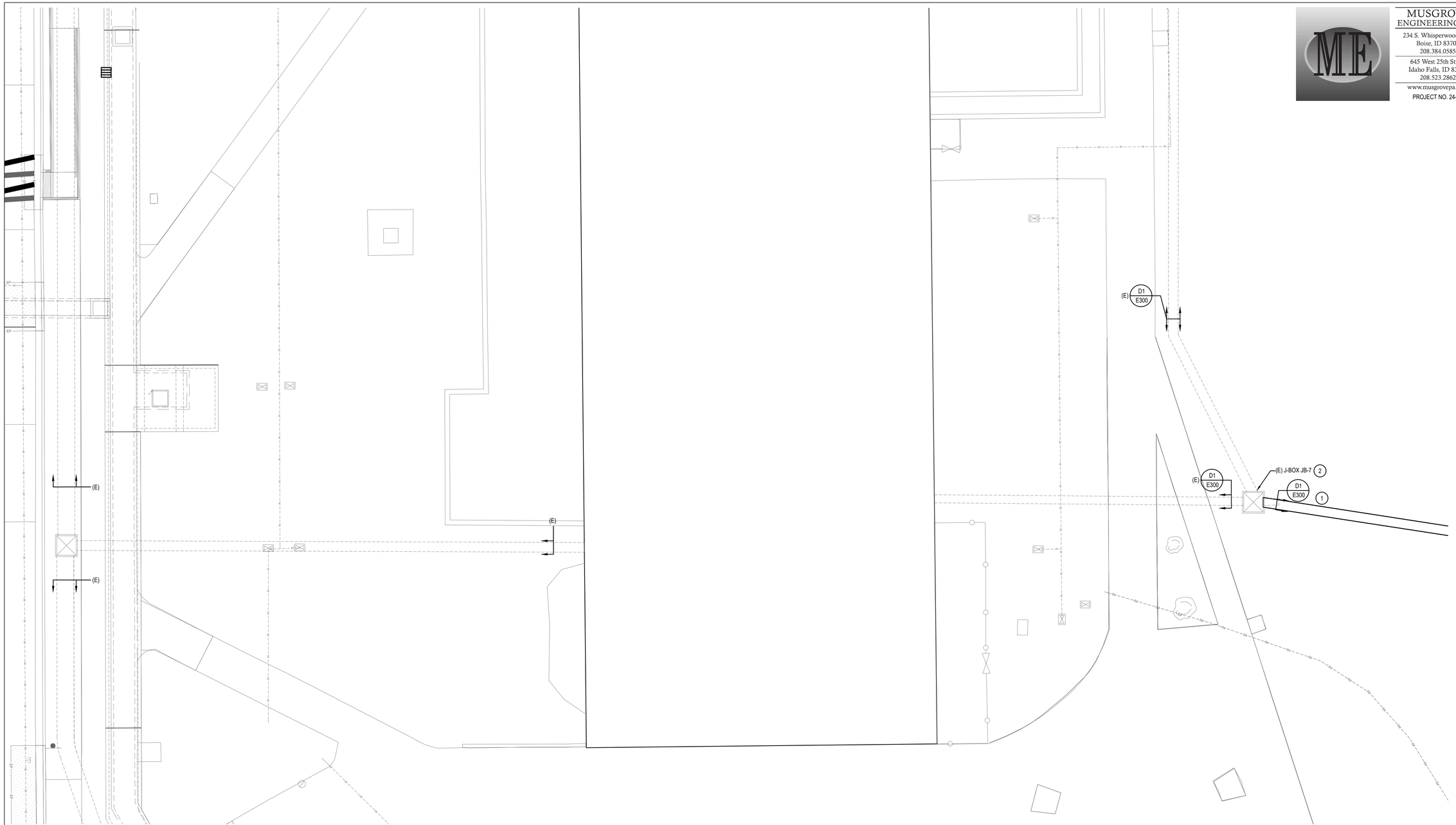
OVERALL INSTALLATION PLAN

DRAWN: DBH | CHECK: MNB

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO.
208106-088

SHEET NO.
E100



1 INSTALLATION PLAN
1" = 10'-0"

KEYED NOTES:

(#) SYMBOL USED FOR NOTE CALLOUT.

1. COMMUNICATIONS CONDUITS INSTALLED BY CONTRACTOR. SEE CIVIL DRAWINGS FOR TRENCHING / BORING, BACKFILL AND LANDSCAPE REMEDIATION SPECIFICATIONS.
2. EXISTING COMMUNICATIONS JUNCTION BOX.
3. INTERCEPT AND EXTEND EXISTING CONDUITS INSTALLED IN PHASE 1 TO JUNCTION BOXES INSTALLED IN PHASE 2.

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PROFESSIONAL ENGINEER REGISTERED STATE OF IDAHO NICK SCHAFER 12731 8/25/2025

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DPW PROJECT #24246
ISU: UTILITY TUNNEL
PHASE 3

IDAHO STATE UNIVERSITY

INSTALLATION PLAN

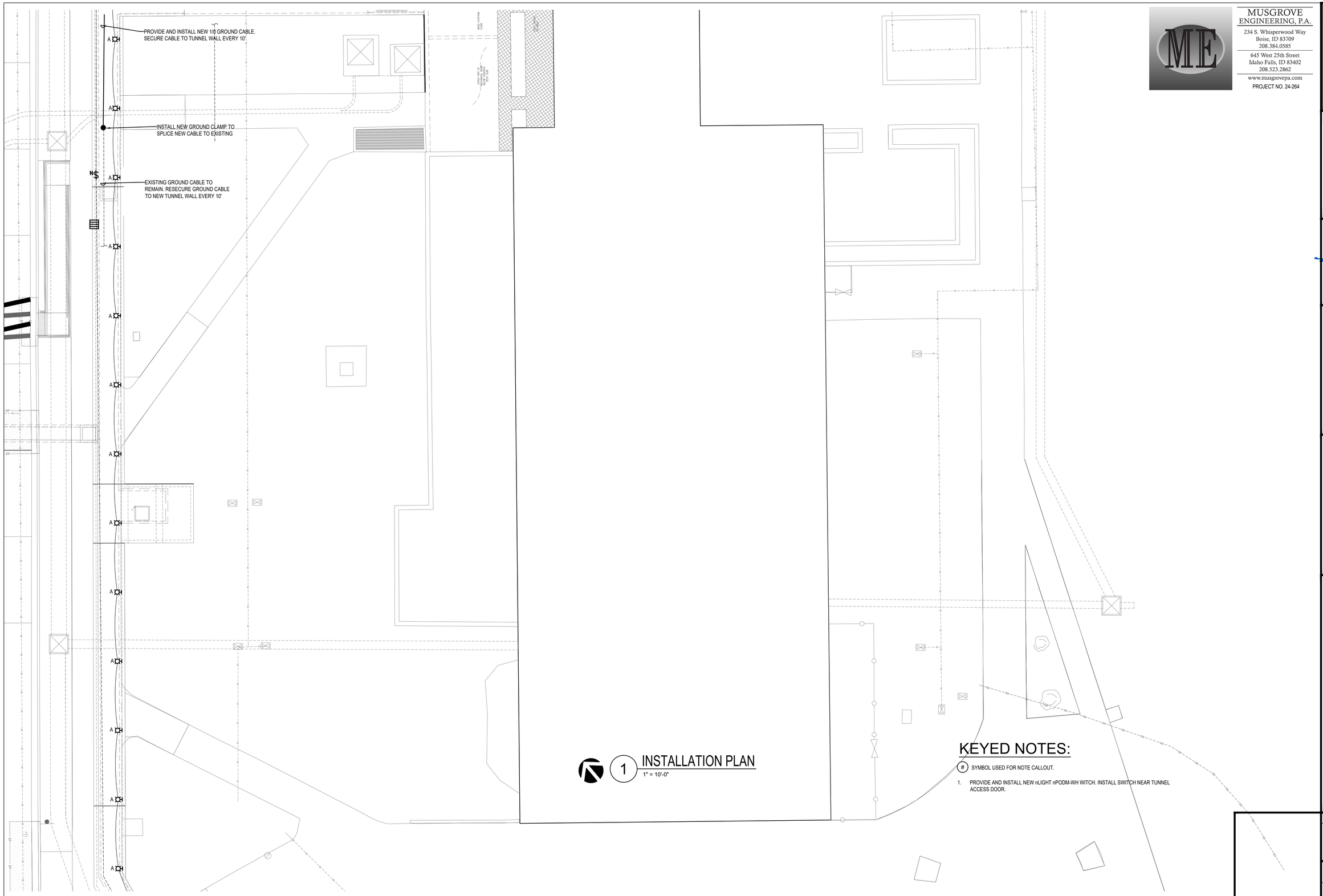
DRAWN: DBH | CHECK: MNB

VERIFY SCALE: Scales based on 22"x34" prints.

1-1/2 Inches

PROJECT NO.
208106-088

SHEET NO.
E101



1 INSTALLATION PLAN
1" = 10'-0"

KEYED NOTES:

(#) SYMBOL USED FOR NOTE CALLOUT.

1. PROVIDE AND INSTALL NEW nLIGHT nPODM-WH WITCH. INSTALL SWITCH NEAR TUNNEL ACCESS DOOR.

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DPW PROJECT #24246
ISU: UTILITY TUNNEL
PHASE 3

IDAHO STATE UNIVERSITY

INSTALLATION PLAN

DRAWN: DBH | CHECK: MNB

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO.
208106-088

SHEET NO.
E101L

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PROJECT NO. 22-359

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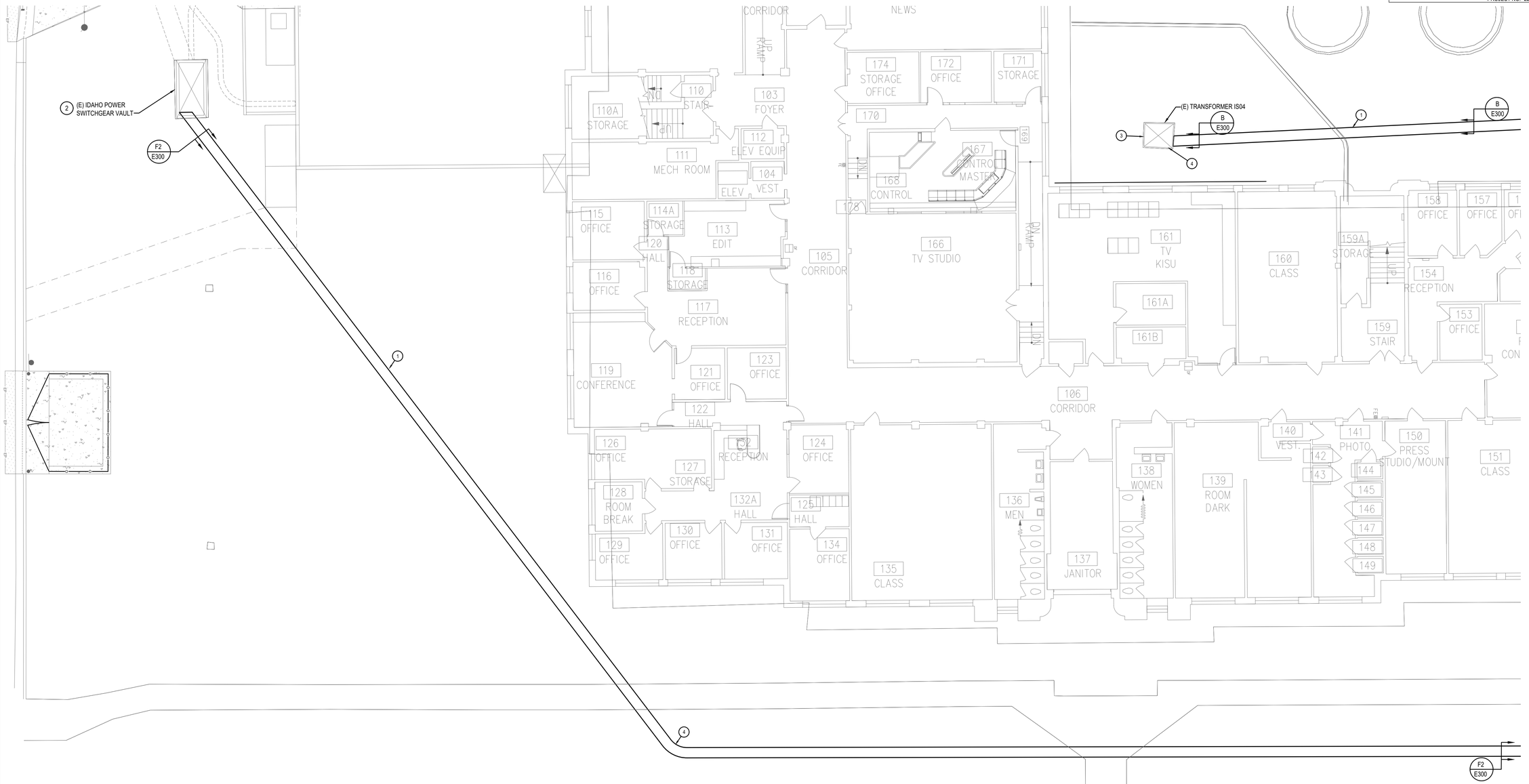

1 INSTALLATION PLAN
1" = 10'-0"

KEYED NOTES:

(#) SYMBOL USED FOR NOTE CALLOUT.

1. POWER CONDUITS SHALL BE INSTALLED BY APPROVED IDAHO POWER CONTRACTOR. SEE CIVIL DRAWINGS FOR TRENCHING / BORING, BACKFILL AND LANDSCAPE REMEDIATION SPECIFICATIONS.
2. EXISTING IDAHO POWER SWITCHGEAR VAULT TO REMAIN PROTECT DURING CONSTRUCTION.
3. UNDERMINE EXISTING TRANSFORMER PAD AND NEW STUB PRIMARY POWER CONDUIT INTO PRIMARY POWER COMPARTMENT. PRIMARY CONDUCTOR INSTALLATION AND TERMINATION BY IDAHO POWER.
4. LONG-SWEEP ELBOWS PROVIDED AND INSTALLED BY IDAHO POWER.

PROFESSIONAL ENGINEER REGISTERED STATE OF IDAHO NICK SCHAFER 12731 8/25/2025

NO.	REVISIONS	DATE
2	PR #5	7/19/2024
1	PR #1	6/20/2024
	CONFORMED SET	6/02/24

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DPW PROJECT #21-654
ISU: REPAIR UTILITY TUNNEL

IDAHO STATE UNIVERSITY

INSTALLATION PLAN

DRAWN: DBH | CHECK: MNB

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO.
208106-088

SHEET NO.
E102

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PROJECT NO. 24-264

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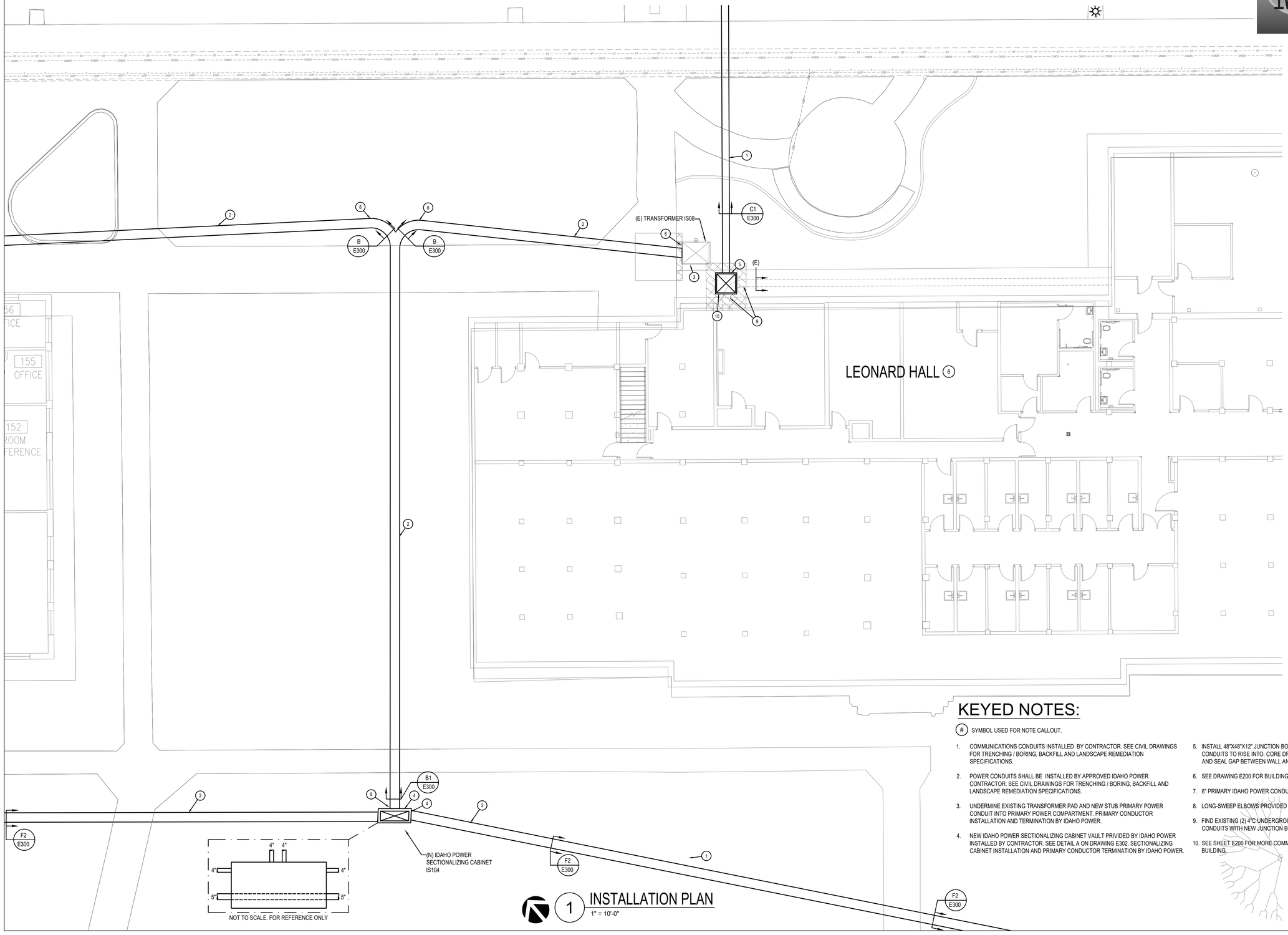

KEYED NOTES:

(#) SYMBOL USED FOR NOTE CALLOUT.

1. COMMUNICATIONS CONDUITS INSTALLED BY CONTRACTOR. SEE CIVIL DRAWINGS FOR TRENCHING / BORING, BACKFILL AND LANDSCAPE REMEDIATION SPECIFICATIONS.
2. POWER CONDUITS SHALL BE INSTALLED BY APPROVED IDAHO POWER CONTRACTOR. SEE CIVIL DRAWINGS FOR TRENCHING / BORING, BACKFILL AND LANDSCAPE REMEDIATION SPECIFICATIONS.
3. UNDERMINE EXISTING TRANSFORMER PAD AND NEW STUB PRIMARY POWER CONDUIT INTO PRIMARY POWER COMPARTMENT. PRIMARY CONDUCTOR INSTALLATION AND TERMINATION BY IDAHO POWER.
4. NEW IDAHO POWER SECTIONALIZING CABINET VAULT PRIVIDED BY IDAHO POWER INSTALLED BY CONTRACTOR. SEE DETAIL A ON DRAWING E302. SECTIONALIZING CABINET INSTALLATION AND PRIMARY CONDUCTOR TERMINATION BY IDAHO POWER.
5. INSTALL 48"X48"X12" JUNCTION BOX WITH BASEMENT FOR COMMUNICATIONS CONDUITS TO RISE INTO. CORE DRILL 4" CONDUITS THROUGH WALL INTO IT ROOM AND SEAL GAP BETWEEN WALL AND CONDUITS.
6. SEE DRAWING E200 FOR BUILDING FLOOR PLAN.
7. 6" PRIMARY IDAHO POWER CONDUITS TO SECTIONALIZING CABINET.
8. LONG-SWEEP ELBOWS PROVIDED AND INSTALLED BY IDAHO POWER.
9. FIND EXISTING (2) 4"C UNDERGROUND. INTERRUPT CONDUITS WITH NEW JUNCTION BOX.
10. SEE SHEET E200 FOR MORE COMMUNICATION DETAILS IN BUILDING.

1 INSTALLATION PLAN
1" = 10'-0"

PROFESSIONAL ENGINEER REGISTERED STATE OF IDAHO NICK SCHAFER 12731 8/25/2025

NO.	REVISIONS	DATE

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DPW PROJECT #24246
ISU: UTILITY TUNNEL
PHASE 3

IDAHO STATE UNIVERSITY

INSTALLATION PLAN

DRAWN: DBH | CHECK: MNB

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO.
208106-088

SHEET NO.
E103

MUSGROVE
ENGINEERING, P.A.
234 S. Whisperwood Way
Boise, ID 83709
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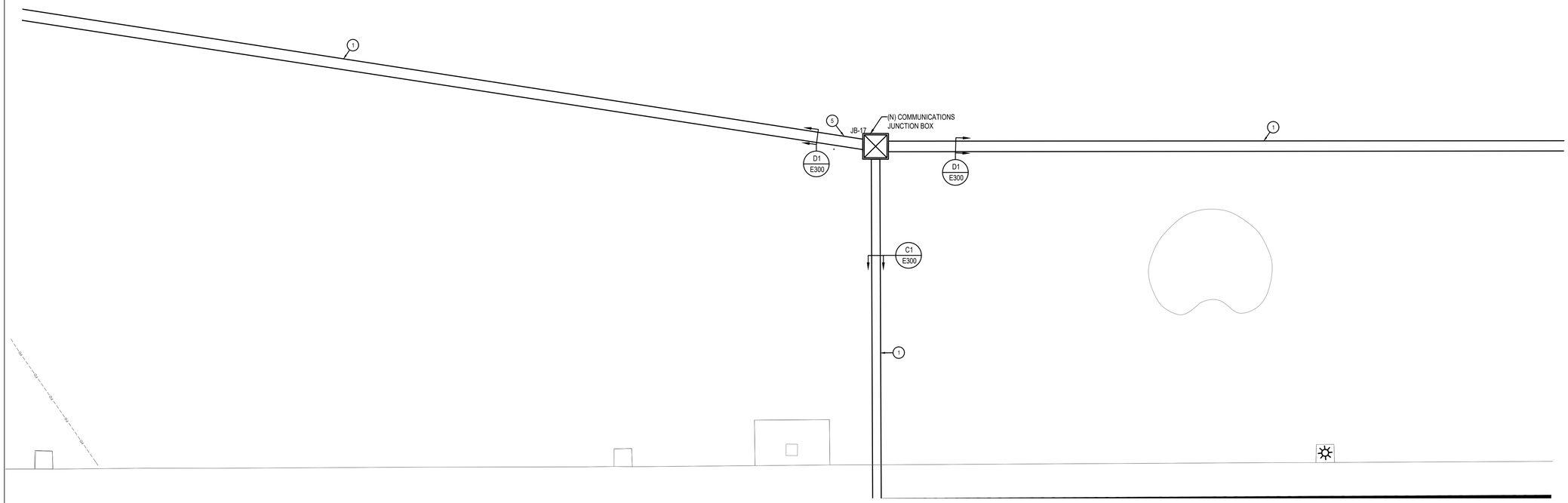
645 West 25th Street
Idaho Falls, ID 83402
208.523.2862
www.musgrovepa.com
PROJECT NO. 24-264

KELLER ASSOCIATES
305 North 3rd Ave, Suite A
Pocatello, Idaho 83201
(208) 238-2146



KEYED NOTES:

(#) SYMBOL USED FOR NOTE CALLOUT.

1. COMMUNICATIONS CONDUITS INSTALLED BY CONTRACTOR. POWER CONDUITS SHALL BE INSTALLED BY APPROVED IDAHO POWER CONTRACTOR. SEE CIVIL DRAWINGS FOR TRENCHING / BORING, BACKFILL AND LANDSCAPE REMEDIATION SPECIFICATIONS.
2. POWER CONDUITS SHALL BE INSTALLED BY APPROVED IDAHO POWER CONTRACTOR. SEE CIVIL DRAWINGS FOR TRENCHING / BORING, BACKFILL AND LANDSCAPE REMEDIATION SPECIFICATIONS.
3. UNDERMINE EXISTING TRANSFORMER PAD AND NEW STUB PRIMARY POWER CONDUIT INTO PRIMARY POWER COMPARTMENT. PRIMARY CONDUCTOR INSTALLATION AND TERMINATION BY IDAHO POWER.
4. NEW IDAHO POWER SWITCHGEAR VAULT PROVIDED BY IDAHO POWER INSTALLED BY CONTRACTOR. SEE DETAIL B ON DRAWING E302. SWITCHGEAR INSTALLATION AND PRIMARY CONDUCTOR TERMINATION BY IDAHO POWER.
5. INSTALL 48"X48"X12" JUNCTION BOX FOR COMMUNICATIONS CONDUITS TO RISE INTO.
6. SEE DRAWING E200 FOR BUILDING FLOOR PLAN.
7. NEW IDAHO POWER SECTIONALIZING CABINET VAULT PRIVIDED BY IDAHO POWER INSTALLED BY CONTRACTOR. SEE DETAIL A ON DRAWING E302. SECTIONALIZING CABINET INSTALLATION AND PRIMARY CONDUCTOR TERMINATION BY IDAHO POWER.
8. 6" PRIMARY IDAHO POWER CONDUITS TO BYPASS VAULT.

1 INSTALLATION PLAN
1" = 10'-0"

NO.	REVISIONS	DATE

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DPW PROJECT #24246
ISU: UTILITY TUNNEL PHASE 3

IDAHO STATE UNIVERSITY

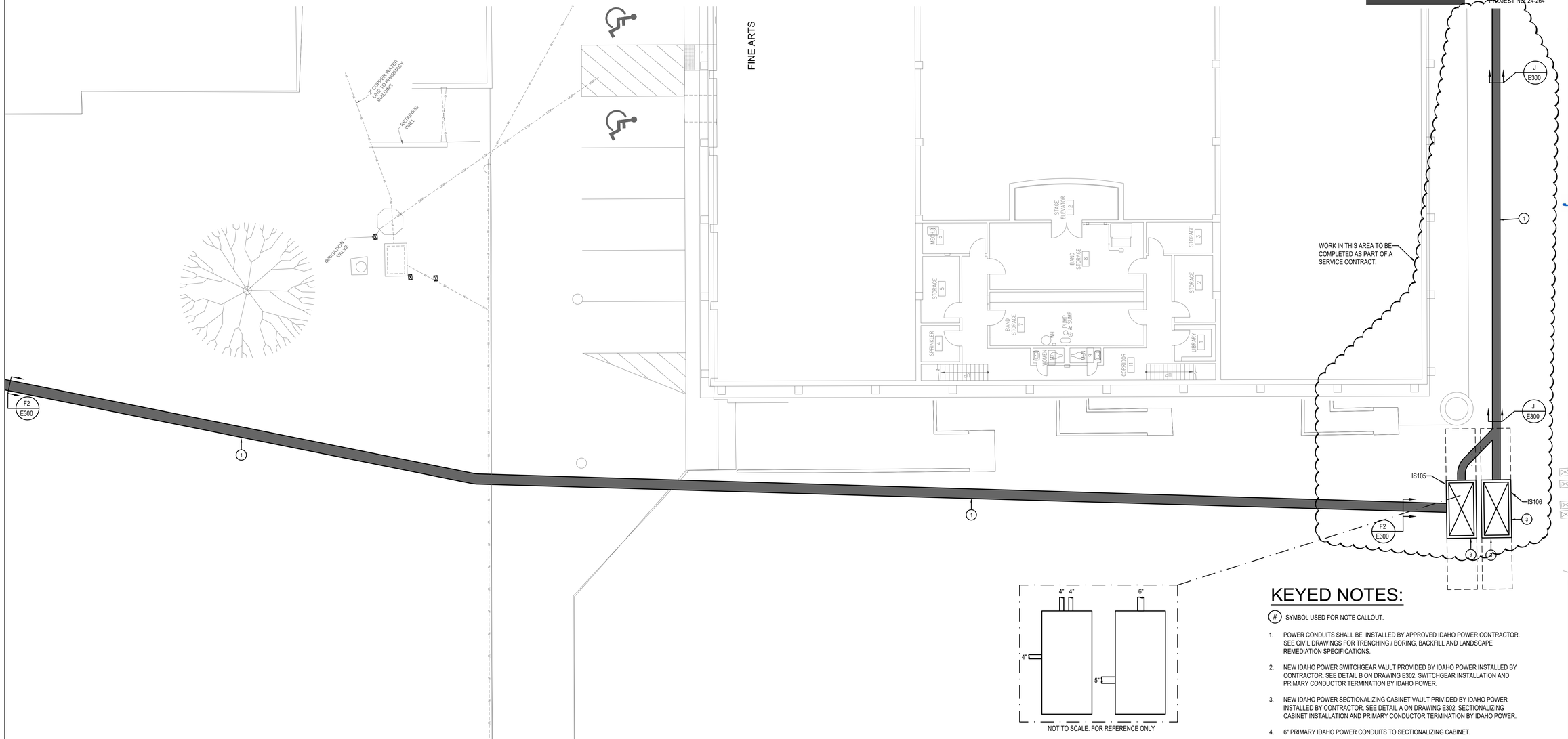
INSTALLATION PLAN

DRAWN: DBH | CHECK: MNB

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO.
208106-088

SHEET NO.
E103A



NOT TO SCALE. FOR REFERENCE ONLY

KEYED NOTES:

(#) SYMBOL USED FOR NOTE CALLOUT.

1. POWER CONDUITS SHALL BE INSTALLED BY APPROVED IDAHO POWER CONTRACTOR. SEE CIVIL DRAWINGS FOR TRENCHING / BORING, BACKFILL AND LANDSCAPE REMEDIATION SPECIFICATIONS.
2. NEW IDAHO POWER SWITCHGEAR VAULT PROVIDED BY IDAHO POWER INSTALLED BY CONTRACTOR. SEE DETAIL B ON DRAWING E302. SWITCHGEAR INSTALLATION AND PRIMARY CONDUCTOR TERMINATION BY IDAHO POWER.
3. NEW IDAHO POWER SECTIONALIZING CABINET VAULT PRIVIDED BY IDAHO POWER INSTALLED BY CONTRACTOR. SEE DETAIL A ON DRAWING E302. SECTIONALIZING CABINET INSTALLATION AND PRIMARY CONDUCTOR TERMINATION BY IDAHO POWER.
4. 6" PRIMARY IDAHO POWER CONDUITS TO SECTIONALIZING CABINET.

1 INSTALLATION PLAN

1" = 10'-0"

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PROFESSIONAL ENGINEER REGISTERED 12731 8/25/2025 STATE OF IDAHO NICK SCHAFER

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DPW PROJECT #24246
ISU: UTILITY TUNNEL PHASE 3

IDAHO STATE UNIVERSITY

INSTALLATION PLAN

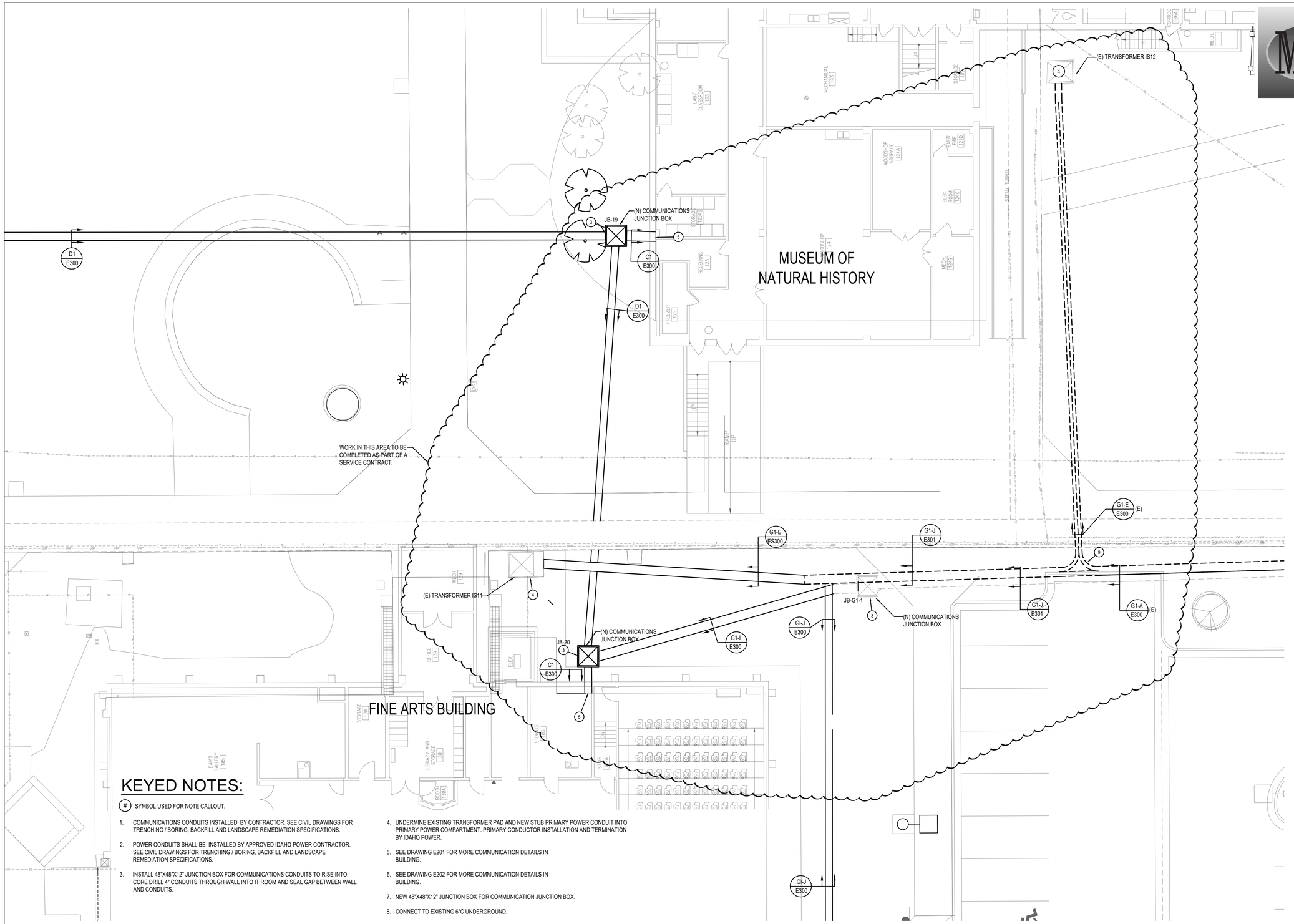
DRAWN: DBH | CHECK: MNB

VERIFY SCALE: Scales based on 22"x34" prints.

1-1/2 Inches

PROJECT NO.
208106-088

SHEET NO.
E104



KEYED NOTES:

(#) SYMBOL USED FOR NOTE CALLOUT.

1. COMMUNICATIONS CONDUITS INSTALLED BY CONTRACTOR. SEE CIVIL DRAWINGS FOR TRENCHING / BORING, BACKFILL AND LANDSCAPE REMEDIATION SPECIFICATIONS.
2. POWER CONDUITS SHALL BE INSTALLED BY APPROVED IDAHO POWER CONTRACTOR. SEE CIVIL DRAWINGS FOR TRENCHING / BORING, BACKFILL AND LANDSCAPE REMEDIATION SPECIFICATIONS.
3. INSTALL 48"X48"X12" JUNCTION BOX FOR COMMUNICATIONS CONDUITS TO RISE INTO. CORE DRILL 4" CONDUITS THROUGH WALL INTO IT ROOM AND SEAL GAP BETWEEN WALL AND CONDUITS.
4. UNDERMINE EXISTING TRANSFORMER PAD AND NEW STUB PRIMARY POWER CONDUIT INTO PRIMARY POWER COMPARTMENT. PRIMARY CONDUCTOR INSTALLATION AND TERMINATION BY IDAHO POWER.
5. SEE DRAWING E201 FOR MORE COMMUNICATION DETAILS IN BUILDING.
6. SEE DRAWING E202 FOR MORE COMMUNICATION DETAILS IN BUILDING.
7. NEW 48"X48"X12" JUNCTION BOX FOR COMMUNICATION JUNCTION BOX.
8. CONNECT TO EXISTING 6"C UNDERGROUND.
9. INTERSEPT EXISTING 4"C FROM G1-A/G1-E. CONNECT BOTH INTERCEPTED 4"C FROM G1-A/G1-E TO 4"C IN G1-L.

1 INSTALLATION PLAN
1" = 10'-0"

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DPW PROJECT #24246
ISU: UTILITY TUNNEL
PHASE 3

IDAHO STATE UNIVERSITY

INSTALLATION PLAN

DRAWN: DBH | CHECK: MNB

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO.
208106-088

SHEET NO.
E105

1 INSTALLATION PLAN
1" = 10'-0"

KEYED NOTES:

(#) SYMBOL USED FOR NOTE CALLOUT.

1. BORE NEW 4"C INTO EXISTING VAULT. COORDINATE WITH IDAHO POWER.

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DPW PROJECT #24246
ISU: UTILITY TUNNEL
PHASE 3

IDAHO STATE UNIVERSITY

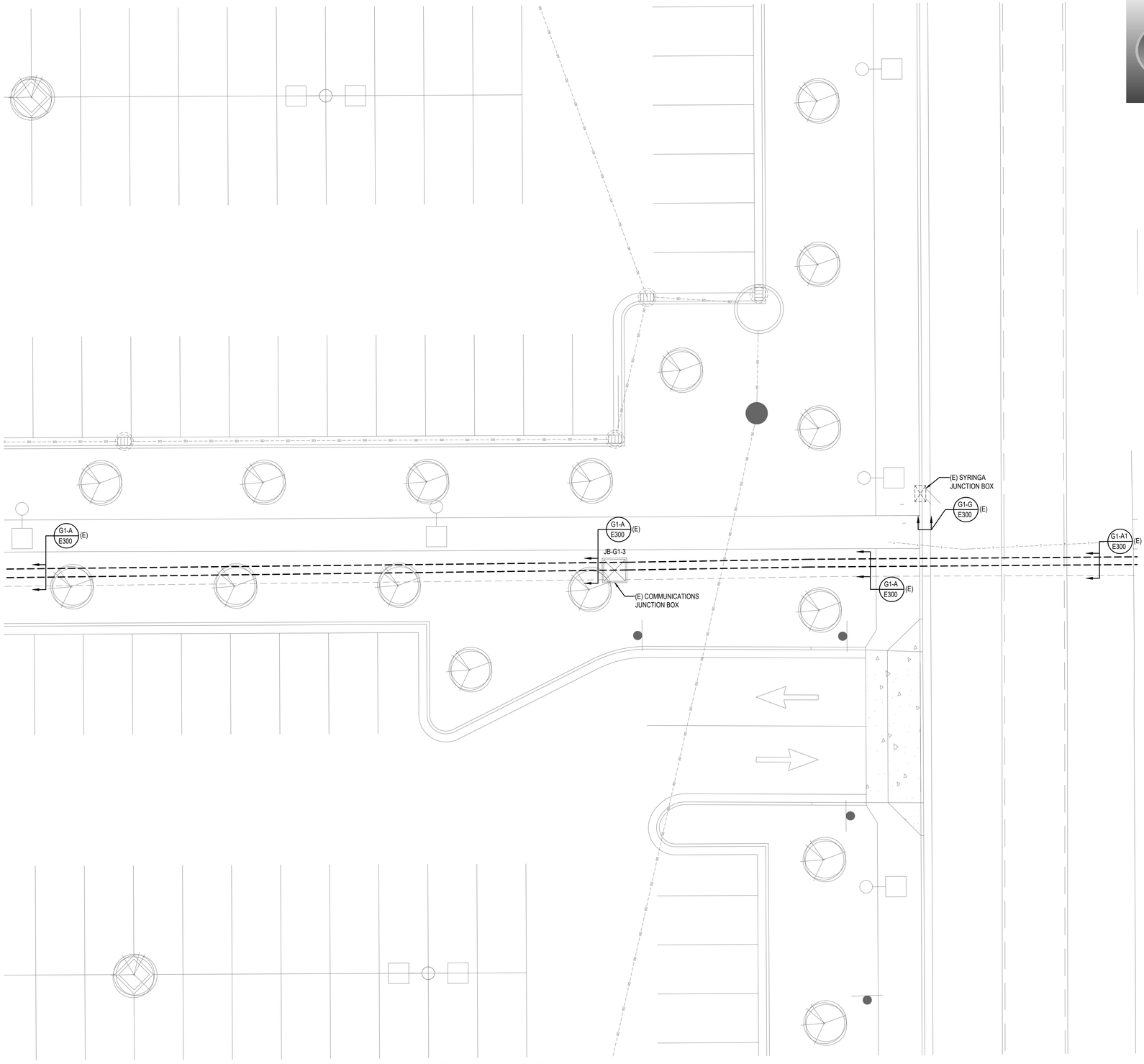
INSTALLATION PLAN

DRAWN: DBH | CHECK: MNB

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO.
208106-088

SHEET NO.
E106



1 INSTALLATION PLAN
1" = 10'-0"

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12731
8/25/2025
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NICK SCHAFER

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DPW PROJECT #24246
ISU: UTILITY TUNNEL
PHASE 3

IDAHO STATE UNIVERSITY

INSTALLATION PLAN

DRAWN: DBH | CHECK: MNB

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO.
208106-088

SHEET NO.
E107

FACILITIES-SERVICES

HEAT PLANT

(E) IDAHO POWER SWITCHGEAR VAULT

(E) COMMUNICATIONS JUNCTION BOX

COMMUNICATIONS JUNCTION BOX

KEYED NOTES:

(#) SYMBOL USED FOR NOTE CALLOUT.

1. COMMUNICATIONS CONDUITS INSTALLED BY CONTRACTOR. SEE CIVIL DRAWINGS FOR TRENCHING / BORING, BACKFILL AND LANDSCAPE REMEDIATION SPECIFICATIONS.
2. EXISTING IDAHO POWER SECTOR CABINET VAULT TO REMAIN.
3. INSTALL NEW COMMUNICATION JUNCTION BOX. INTERCEPT EXISTING CONDUITS IN GI-F TRENCH TO NEW COMMUNICATIONS JUNCTION BOX.
4. EXISTING IDAHO POWER TRANSFORMER TO REMAIN.
5. IDAHO POWER TO INSTALL CONDUIT AND SWEEPING ELBOWS IN OPEN TRENCH.
6. EXISTING CONCRETE VAULT TO BE REMOVED.
7. INTERCEPT EXISTING CONDUIT RUNS GOING SOUTH AND CONNECT. INSTALL NEW CONDUCTORS.

1 INSTALLATION PLAN
1" = 10'-0"

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DPW PROJECT #24246
ISU: UTILITY TUNNEL PHASE 3

IDAHO STATE UNIVERSITY

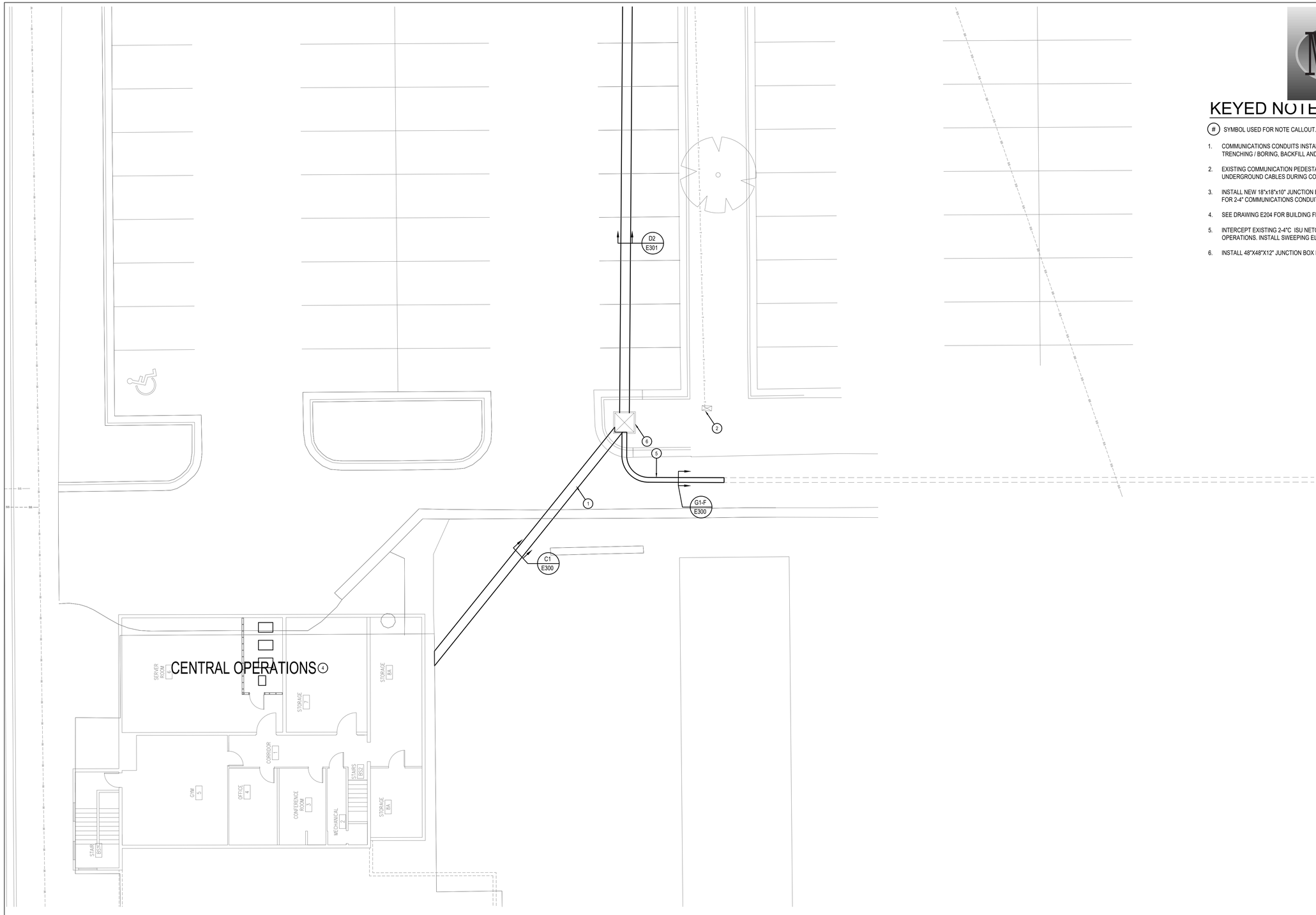
INSTALLATION PLAN

DRAWN: DBH | CHECK: MNB

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO. 208106-088

SHEET NO. E108



1 INSTALLATION PLAN
1" = 10'-0"

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PROJECT NO. 24-264

KEYED NOTES:

(#) SYMBOL USED FOR NOTE CALLOUT.

1. COMMUNICATIONS CONDUITS INSTALLED BY CONTRACTOR. SEE CIVIL DRAWINGS FOR TRENCHING / BORING, BACKFILL AND LANDSCAPE REMEDIATION SPECIFICATIONS.
2. EXISTING COMMUNICATION PEDESTAL TO REMAIN. PROTECT EXISTING PEDESTAL AND UNDERGROUND CABLES DURING CONSTRUCTION.
3. INSTALL NEW 18"x18"x10" JUNCTION BOX ON WALL. CORE DRILL INTO EXISTING BUILDING FOR 2-4" COMMUNICATIONS CONDUITS.
4. SEE DRAWING E204 FOR BUILDING FLOOR PLAN.
5. INTERCEPT EXISTING 2-4"C ISU NETCOM CONDUIT WITH NEW 2-4"C TO CENTRAL OPERATIONS. INSTALL SWEEPING ELBOWS PER SPECIFICATION.
6. INSTALL 48"X48"X12" JUNCTION BOX FOR COMMUNICATIONS CONDUITS.

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DPW PROJECT #24246
ISU: UTILITY TUNNEL
PHASE 3

IDAHO STATE UNIVERSITY

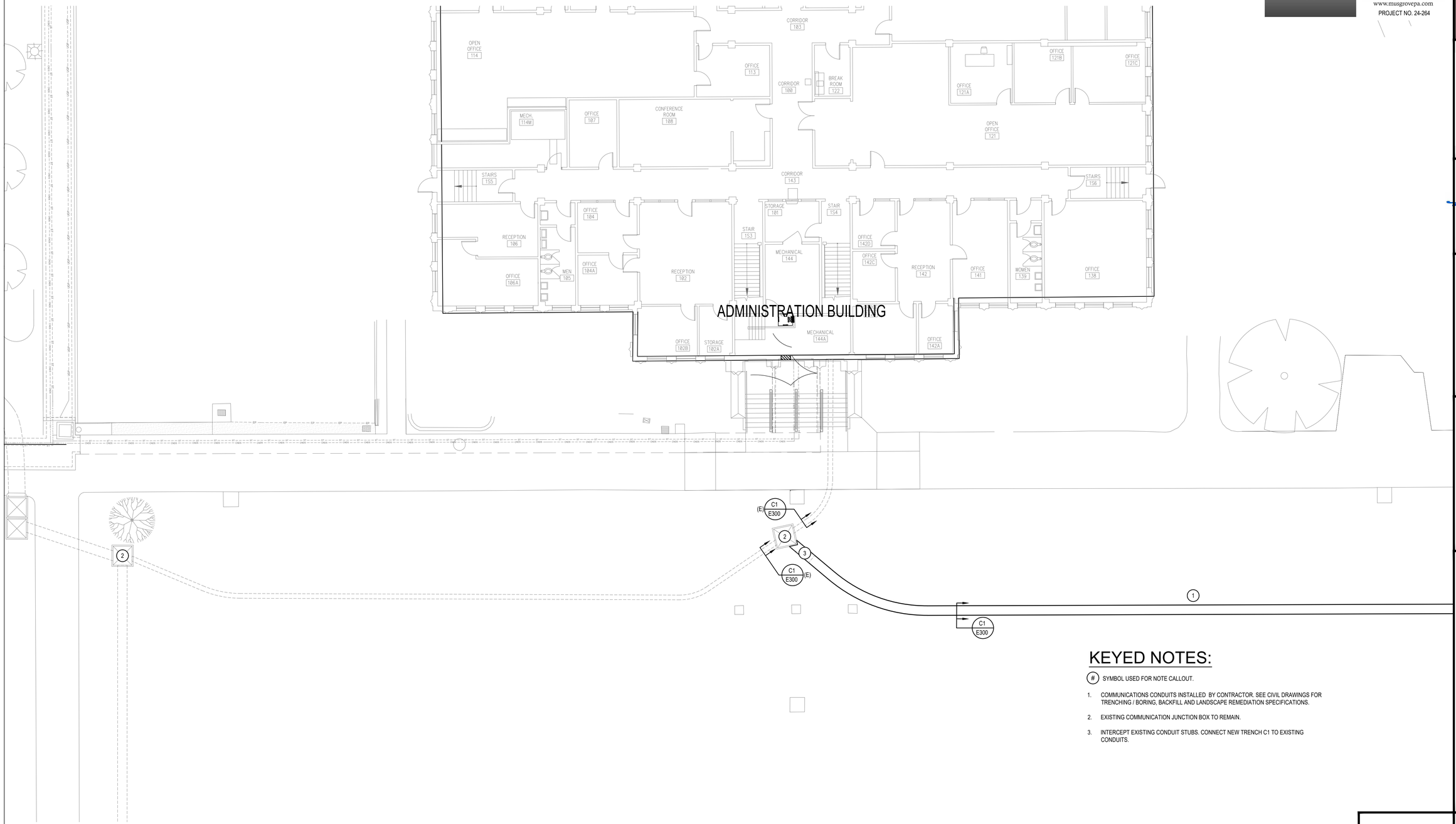
INSTALLATION PLAN

DRAWN: DBH | CHECK: MNB

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO.
208106-088

SHEET NO.
E109



KEYED NOTES:

(#) SYMBOL USED FOR NOTE CALLOUT.

1. COMMUNICATIONS CONDUITS INSTALLED BY CONTRACTOR. SEE CIVIL DRAWINGS FOR TRENCHING / BORING, BACKFILL AND LANDSCAPE REMEDIATION SPECIFICATIONS.
2. EXISTING COMMUNICATION JUNCTION BOX TO REMAIN.
3. INTERCEPT EXISTING CONDUIT STUBS. CONNECT NEW TRENCH C1 TO EXISTING CONDUITS.

1 INSTALLATION PLAN
1" = 10'-0"

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DPW PROJECT #24246
ISU: UTILITY TUNNEL
PHASE 3

IDAHO STATE UNIVERSITY

INSTALLATION PLAN

DRAWN: DBH | CHECK: MNB

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO.
208106-088

SHEET NO.
E110

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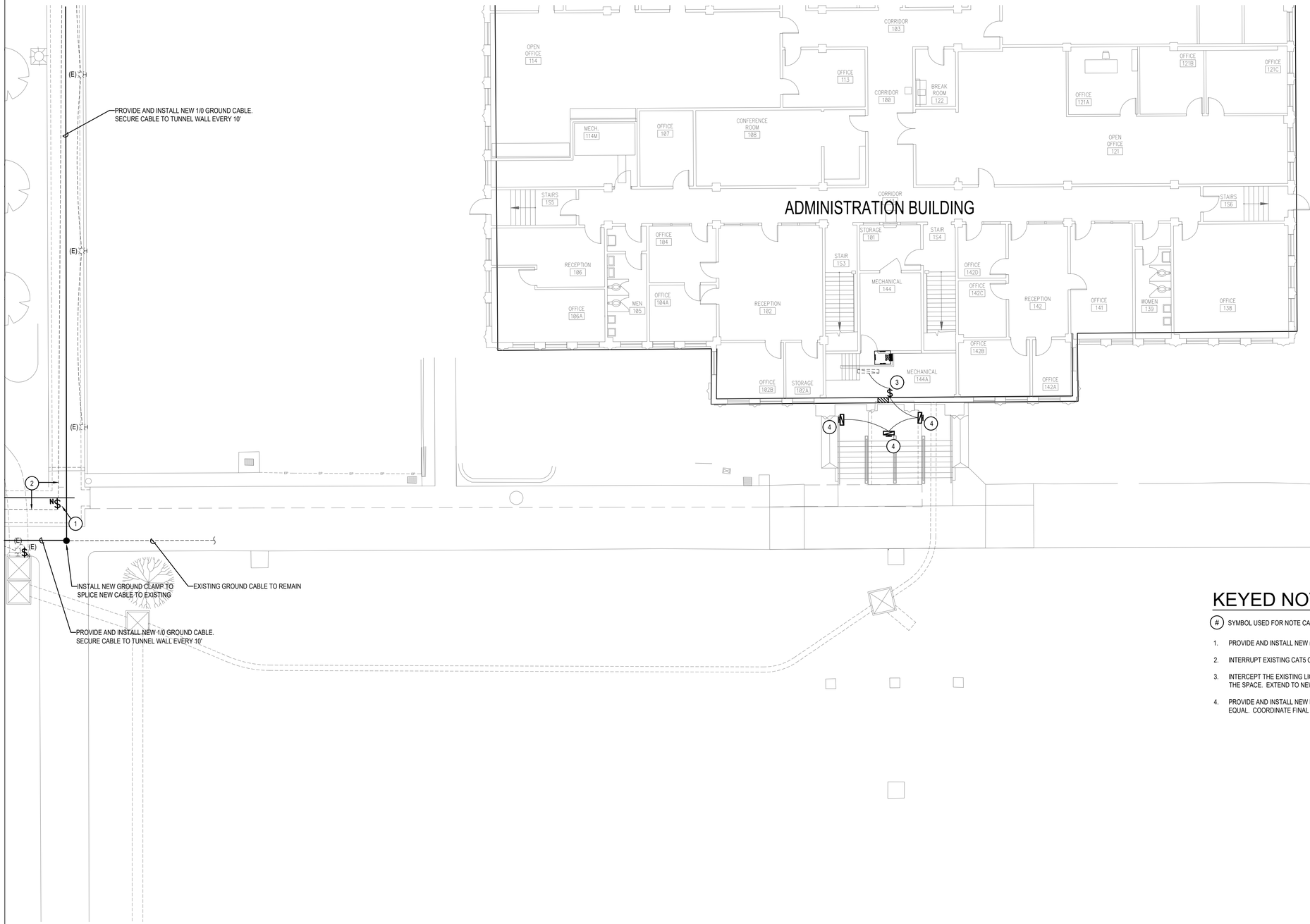

KEYED NOTES:

(#) SYMBOL USED FOR NOTE CALLOUT.

1. PROVIDE AND INSTALL NEW nLIGHT nPODM-WH SWITCH. MOUNT NEAR HATCH.
2. INTERRUPT EXISTING CAT5 CABLE. TERMINATE CAT5 CABLE IN/OUT OF THE NEW SWITCH.
3. INTERCEPT THE EXISTING LIGHTING CIRCUIT AT THE EXITING FLUORESCENT LIGHT IN THE SPACE. EXTEND TO NEW SWITCH FOR LOWER MECHANICAL AREA.
4. PROVIDE AND INSTALL NEW LITHONIA CSS-L24-AL015-MVOLT-SWW3-80CRI OR APPROVED EQUAL. COORDINATE FINAL LOCATION WITH ISU AND EXISTING CONDITIONS.

1 INSTALLATION PLAN
1" = 10'-0"

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DPW PROJECT #24246
ISU: UTILITY TUNNEL
PHASE 3

IDAHO STATE UNIVERSITY

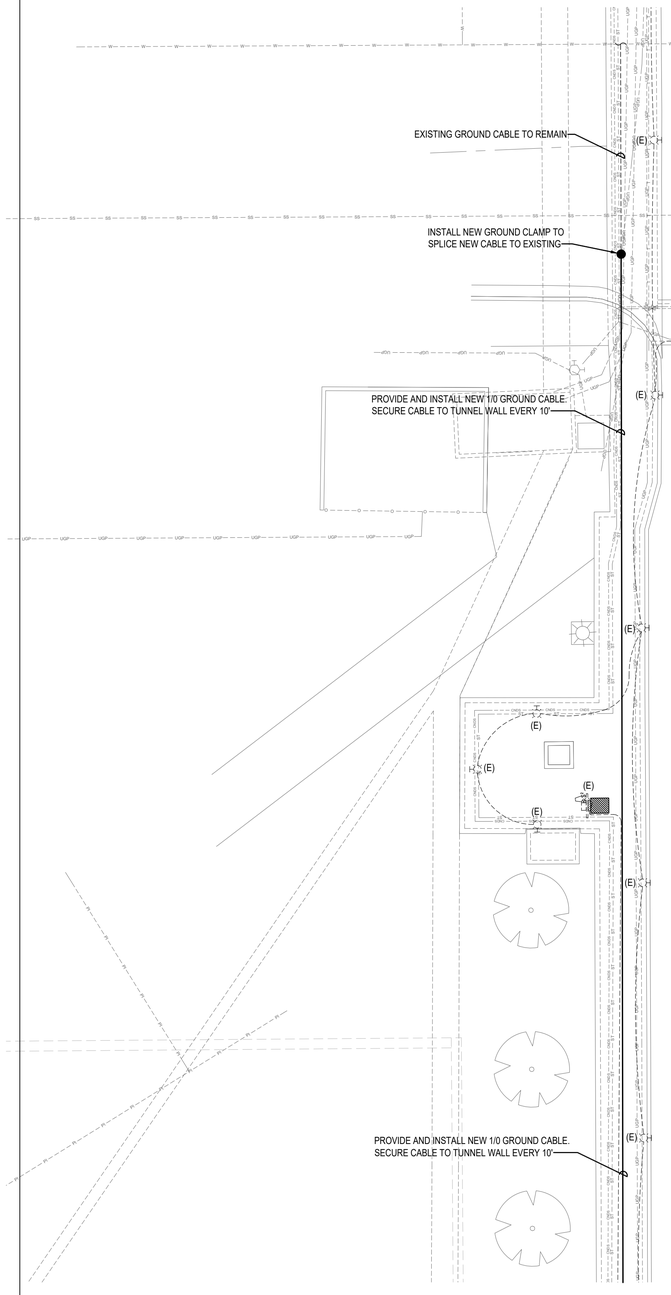
INSTALLATION PLAN

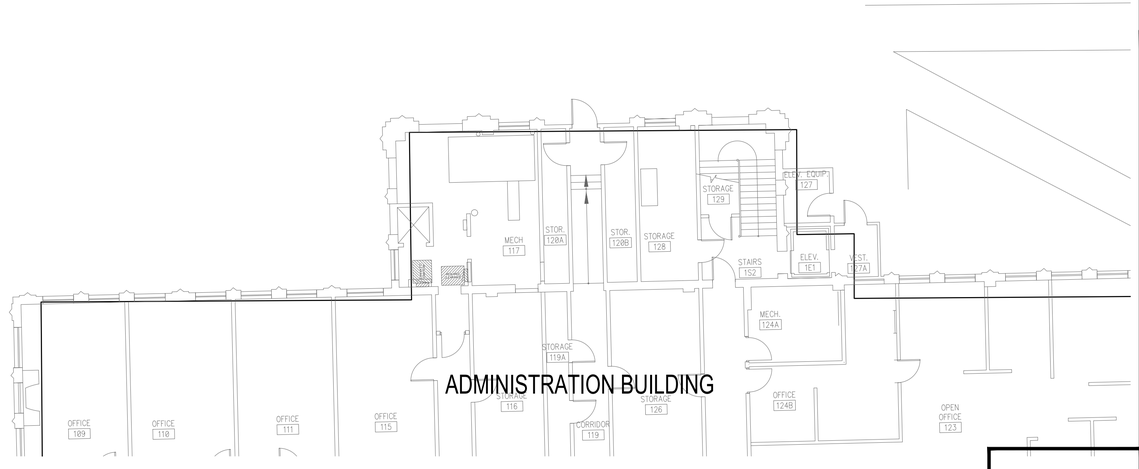
DRAWN: DBH | CHECK: MNB

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO.
208106-088

SHEET NO.
E110L





1 INSTALLATION PLAN
1" = 10'-0"

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PROJECT NO. 24-264

KEYED NOTES:

(#) SYMBOL USED FOR NOTE CALLOUT.

1. COMMUNICATIONS CONDUITS INSTALLED BY CONTRACTOR. SEE CIVIL DRAWINGS FOR TRENCHING / BORING, BACKFILL AND LANDSCAPE REMEDIATION SPECIFICATIONS.
2. EXISTING COMMUNICATION JUNCTION BOX TO REMAIN.
3. INTERCEPT EXISTING CONDUIT STUBS. CONNECT NEW TRENCH C1 TO EXISTING CONDUITS.

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DPW PROJECT #24246
ISU: UTILITY TUNNEL
PHASE 3

IDAHO STATE UNIVERSITY

INSTALLATION PLAN

DRAWN: DBH | CHECK: MNB

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO.
208106-088

SHEET NO.
E110A

PROVIDE AND INSTALL NEW 1/0 GROUND CABLE.
BOND CABLE TO EXISTING GROUND BAR

PROVIDE AND INSTALL NEW 1/0 GROUND CABLE.
SECURE CABLE TO TUNNEL WALL EVERY 10'

PROVIDE AND INSTALL NEW 1/0 GROUND CABLE.
SECURE CABLE TO TUNNEL WALL EVERY 10'

INSTALL NEW GROUND CLAMP TO
SPLICE NEW CABLE TO EXISTING

PROVIDE AND INSTALL NEW 1/0 GROUND CABLE.
SECURE CABLE TO TUNNEL WALL EVERY 10'

PROVIDE AND INSTALL NEW 1/0 GROUND CABLE.
SECURE CABLE TO TUNNEL WALL EVERY 10'

1 INSTALLATION PLAN
1" = 10'-0"

KEYED NOTES:

(#) SYMBOL USED FOR NOTE CALLOUT.

1. PROVIDE AND INSTALL NEW nLIGHT nPODM-WH SWITCH. MOUNT NEAR HATCH.
2. INTERRUPT EXISTING CAT5 CABLE. TERMINATE CAT5 CABLE IN/OUT OF THE NEW SWITCH.

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DPW PROJECT #24246
ISU: UTILITY TUNNEL
PHASE 3

IDAHO STATE UNIVERSITY

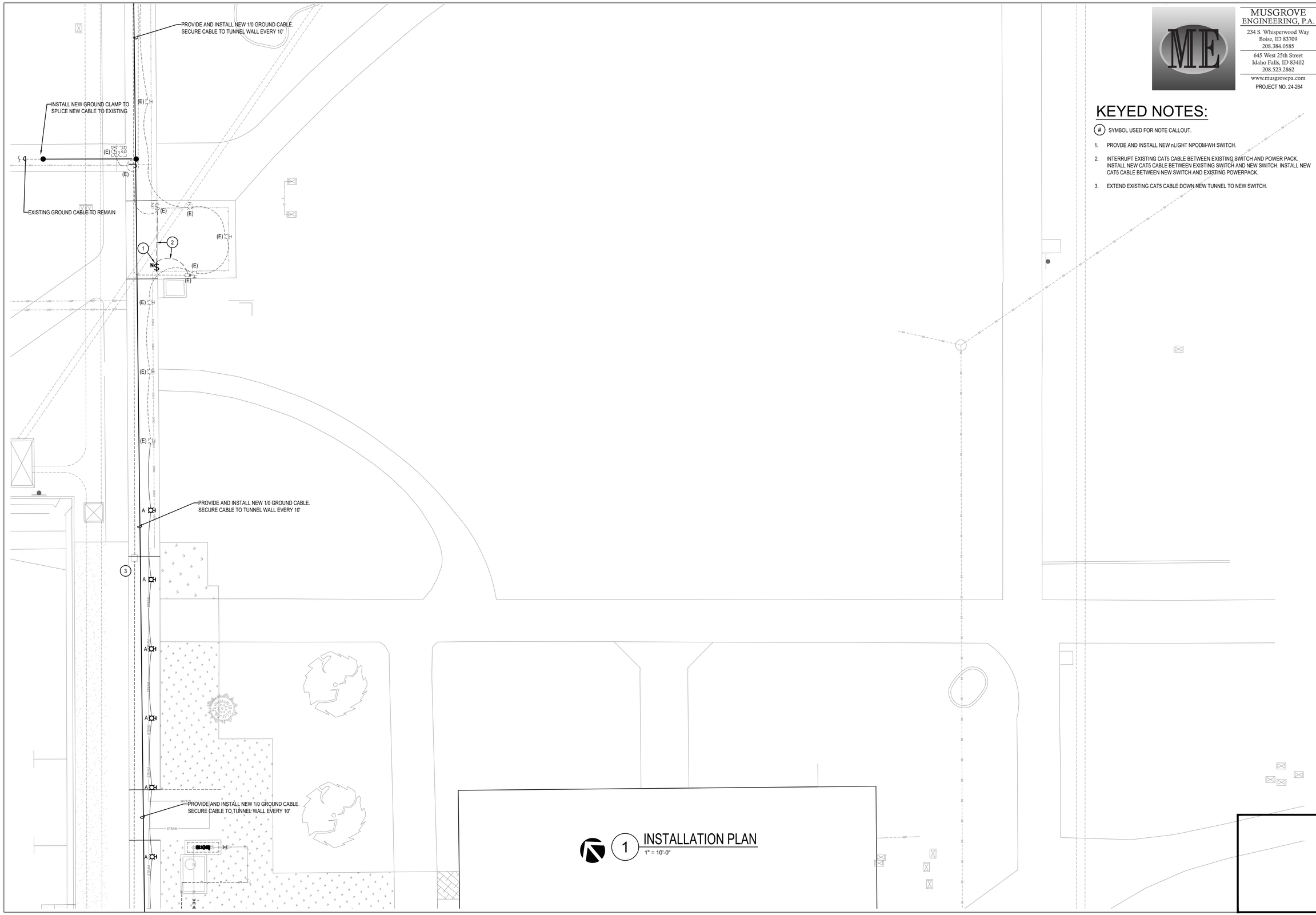
INSTALLATION PLAN

DRAWN: DBH | CHECK: MNB

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO.
208106-088

SHEET NO.
E110L-B



1 INSTALLATION PLAN
1" = 10'-0"

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PROJECT NO. 24-264

KEYED NOTES:

(#) SYMBOL USED FOR NOTE CALLOUT.

1. PROVDE AND INSTALL NEW nLIGHT NPODM-WH SWITCH.
2. INTERRUPT EXISTING CAT5 CABLE BETWEEN EXISTING SWITCH AND POWER PACK. INSTALL NEW CAT5 CABLE BETWEEN EXISTING SWITCH AND NEW SWITCH. INSTALL NEW CAT5 CABLE BETWEEN NEW SWITCH AND EXISTING POWERPACK.
3. EXTEND EXISTING CAT5 CABLE DOWN NEW TUNNEL TO NEW SWITCH.

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ISU: UTILITY TUNNEL
PHASE 3

IDAHO STATE UNIVERSITY

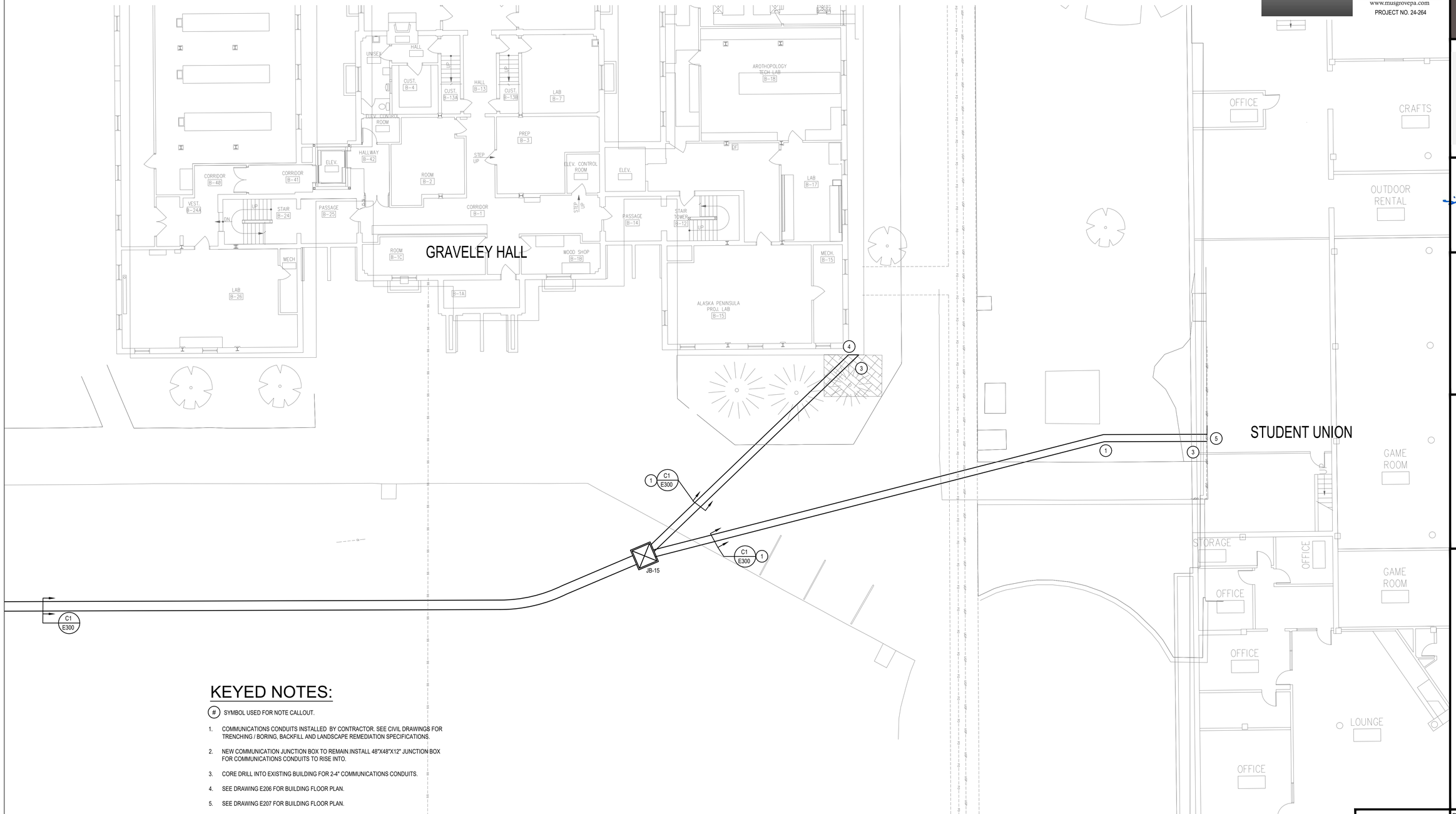
INSTALLATION PLAN

DRAWN: DBH | CHECK: MNB

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO.
208106-088

SHEET NO.
E110L-C



KEYED NOTES:

(#) SYMBOL USED FOR NOTE CALLOUT.

1. COMMUNICATIONS CONDUITS INSTALLED BY CONTRACTOR. SEE CIVIL DRAWINGS FOR TRENCHING / BORING, BACKFILL AND LANDSCAPE REMEDIATION SPECIFICATIONS.
2. NEW COMMUNICATION JUNCTION BOX TO REMAIN.INSTALL 48"X48"X12" JUNCTION BOX FOR COMMUNICATIONS CONDUITS TO RISE INTO.
3. CORE DRILL INTO EXISTING BUILDING FOR 2-4" COMMUNICATIONS CONDUITS.
4. SEE DRAWING E206 FOR BUILDING FLOOR PLAN.
5. SEE DRAWING E207 FOR BUILDING FLOOR PLAN.

1 INSTALLATION PLAN
1" = 10'-0"

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Boise, ID 83709
208.384.0585
645 West 25th Street
Idaho Falls, ID 83402
208.523.2862
www.musgrovepa.com
PROJECT NO. 24-264

KELLER ASSOCIATES
305 North 3rd Ave, Suite A
Pocatello, Idaho 83201
(208) 238-2146

PROFESSIONAL ENGINEER REGISTERED STATE OF IDAHO NICK SCHAFER 12731 8/25/2025

NO.	REVISIONS	DATE

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DPW PROJECT #24246
ISU: UTILITY TUNNEL
PHASE 3

IDAHO STATE UNIVERSITY

INSTALLATION PLAN

DRAWN: DBH | CHECK: MNB

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO.
208106-088

SHEET NO.
E111

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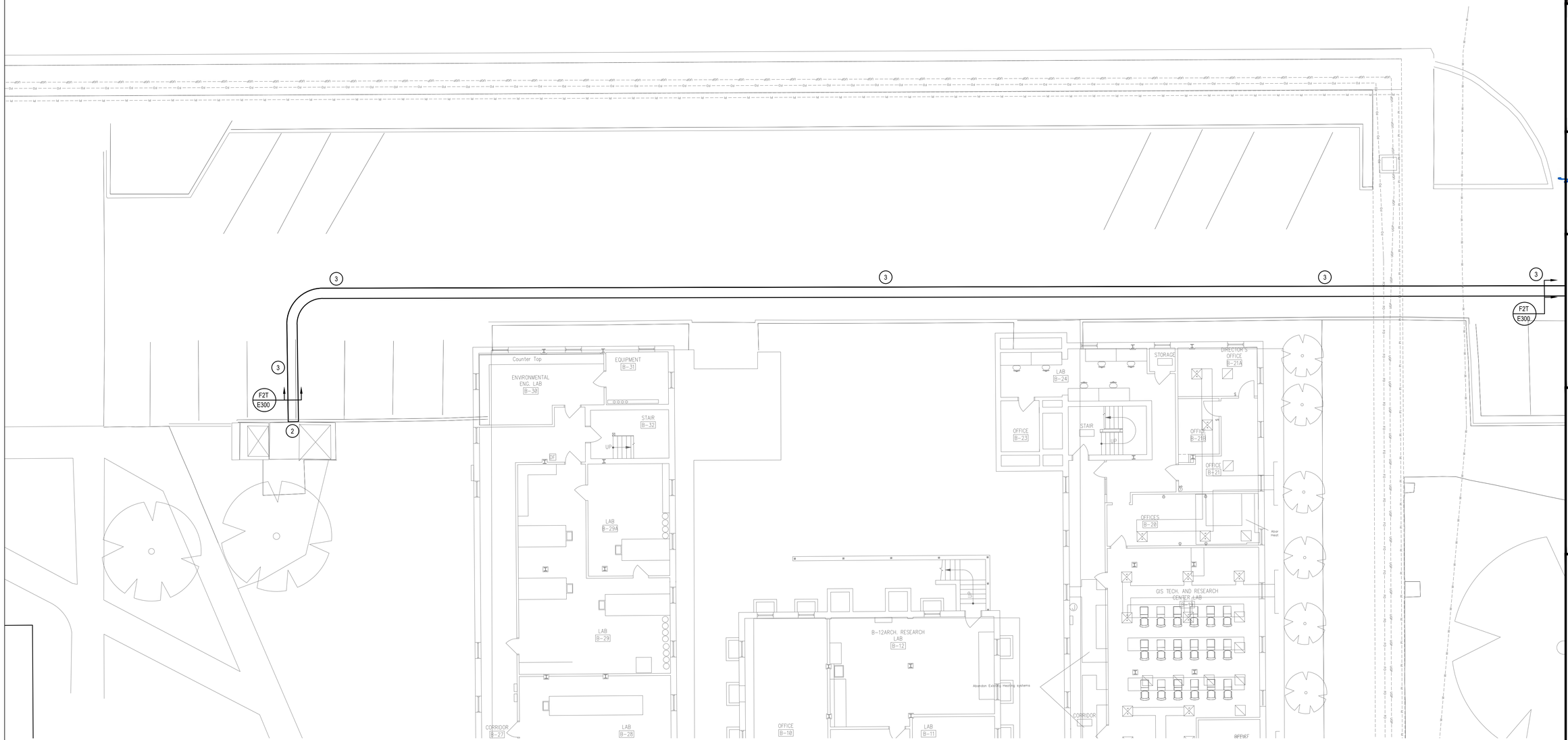

1 INSTALLATION PLAN
1" = 10'-0"

KEYED NOTES:

(#) SYMBOL USED FOR NOTE CALLOUT.

1. POWER CONDUITS SHALL BE INSTALLED BY APPROVED IDAHO POWER CONTRACTOR. SEE CIVIL DRAWINGS FOR TRENCHING / BORING, BACKFILL AND LANDSCAPE REMEDIATION SPECIFICATIONS.
2. EXISTING IDAHO POWER SWITCHGEAR VAULT TO REMAIN.
3. IDAHO POWER TO INSTALL CONDUIT AND SWEEP ELBOWS IN OPEN TRENCH. COORDINATE WITH IDAHO POWER.

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DPW PROJECT #24246
ISU: UTILITY TUNNEL
PHASE 3

IDAHO STATE UNIVERSITY

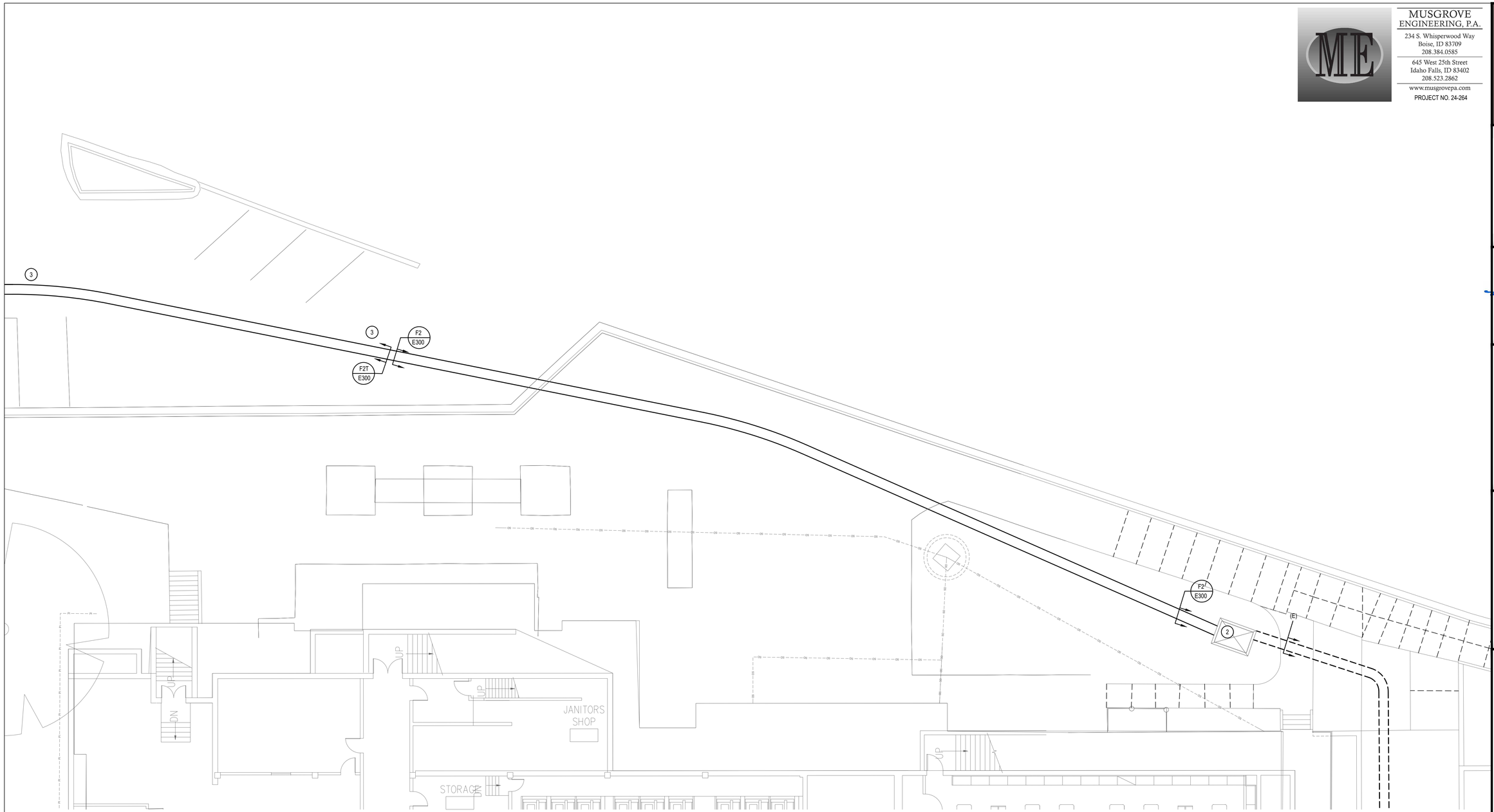
INSTALLATION PLAN

DRAWN: DBH | CHECK: MNB

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO.
208106-088

SHEET NO.
E112



1 INSTALLATION PLAN
1" = 10'-0"

KEYED NOTES:

(#) SYMBOL USED FOR NOTE CALLOUT.

1. POWER CONDUITS SHALL BE INSTALLED BY APPROVED IDAHO POWER CONTRACTOR. SEE CIVIL DRAWINGS FOR TRENCHING / BORING, BACKFILL AND LANDSCAPE REMEDIATION SPECIFICATIONS.
2. EXISTING IDAHO POWER SWITCHGEAR VAULT TO REMAIN.
3. IDAHO POWER TO INSTALL ALL CONDUIT AND SWEEP ELBOWS IN OPEN TRENCH. COORDINATE WITH IDAHO POWER.

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DPW PROJECT #24246
ISU: UTILITY TUNNEL
PHASE 3

IDAHO STATE UNIVERSITY

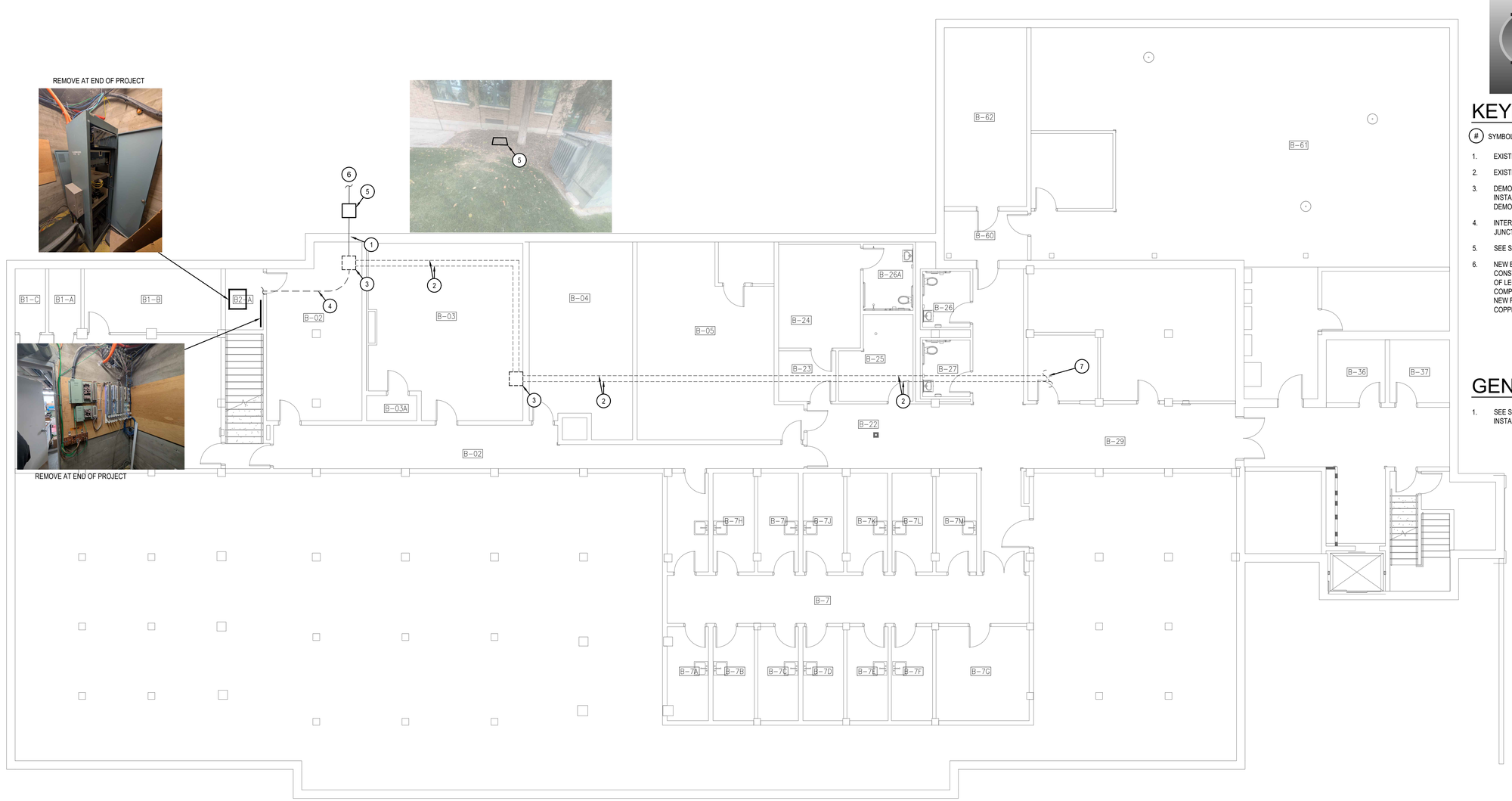
INSTALLATION PLAN

DRAWN: DBH | CHECK: MNB

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO.
208106-088

SHEET NO.
E113



1 BLDG 08 - LEONARD HALL - 1ST FLOOR

1/8" = 1'-0"

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www.musgrovepa.com

PROJECT NO. 24-264

KEYED NOTES:

(#) SYMBOL USED FOR NOTE CALLOUT.

1. EXISTING CONDUIT THROUGH WALL TO BE REUSED.
2. EXISTING JUNCTION BOX TO REMAIN.
3. DEMO OLD 4"C, FIBER, AND COPPER AFTER NEW SYSTEM IS INSTALLED AND RUNNING. COORDINATE WITH ISU NETCOM. SEE DEMO RISER DIAGRAM.
4. INTERCEPT EXISTING (2) 4"C AND INSTALL NEW 48"X48"X12" JUNCTION BOX FOR COMMUNICATION JUNCTION BOX.
5. SEE SHEET E103 FOR MORE DETAILS.
6. NEW BDF. BUILDING DISTRIBUTION FRAME IS CURRENTLY UNDER CONSTRUCTION. NEW BDF WILL BE LOCATED IN THIS ROOM AT END OF LEONARD HALL REMODEL PROJECT, SCHEDULED TO BE COMPLETED SPRING OF 2025. TERMINATE FIBER OPTIC CABLES IN NEW FIBER OPTIC CABINET AND COOPER CABLES ON EXISTING COPPER LIGHTING PROTECTORS LOCATED IN THIS ROOM

GENERAL NOTES:

1. SEE SPECIFICATION SECTION 27 15 00 FOR ISU NETCOMM INSTALLATION SPECIFICATIONS.

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DPW PROJECT #24246
ISU: UTILITY TUNNEL
PHASE 3

IDAHO STATE UNIVERSITY

BUILDING 08 LEONARD HALL
1ST FLOOR

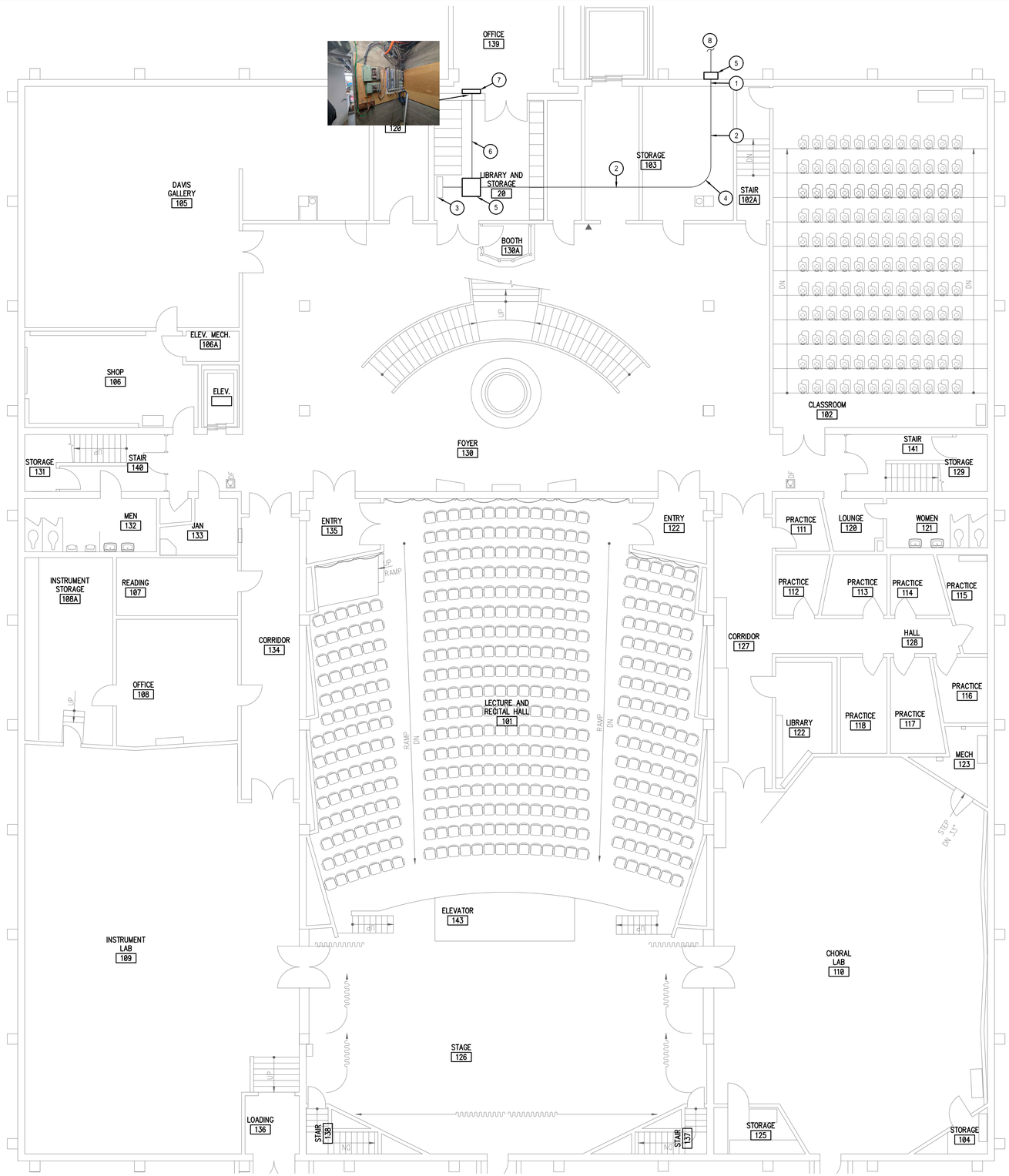
DRAWN: DBH | CHECK: MNB

VERIFY SCALE: Scales based on 22"x34" prints.

1-1/2 Inches

PROJECT NO.
208106-088

SHEET NO.
E200



1 BLDG 11 - FINE ARTS - SUB BASEMENT

1/8" = 1'-0"

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PROJECT NO. 24-264

KEYED NOTES:

(#) SYMBOL USED FOR NOTE CALLOUT.

1. CORE DRILL (2) 4" CONDUITS THROUGH WALL INTO COMMUNICATIONS JUNCTION BOX AND SEAL GAP BETWEEN WALL AND CONDUITS. POUR CONCRETE PLUG TO SEAL CONDUITS.
2. INSTALL (2) NEW 4"C WITH NEW MXED86383 MAXCELL INNERDUCTS, SEE DETAIL A ON DRAWING E301 FOR FIBER AND COPPER CABLE TO BE INSTALLED. SEE RISER.
3. EXISTING FIBER PANEL, INSTALL NEW FIBER AND TERMINATE IN PANEL. SEE RISER.
4. INSTALL 36" SWEEPING ELBOW ABOVE ACCESSABLE CEILIG TILE.
5. INSTALL NEW 3R 18"x18"x10" JUNCTION BOX.
6. INSTALL (2) NEW 4"C WITH NEW MXED86383 MAXCELL INERDUCTS, SEE DETAIL A ON DRAWING E301 FOR COPPER CABLE TO BE INSTALLED. SEE RISER.
7. EXISTING TELEPONE BOARD TO REMAIN. TERMINATE COPPER PER SPECIFICATIONS. SEE RISER.
8. SEE SHEET E105 FOR MORE DETAILS.

GENERAL NOTES:

1. SEE SPECIFICATION SECTION 27 15 00 FOR ISU NETCOMM INSTALLATION SPECIFICATIONS.

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DPW PROJECT #24246
ISU: UTILITY TUNNEL
PHASE 3

IDAHO STATE UNIVERSITY

BUILDING 11 FINE ARTS
SUB BASEMENT

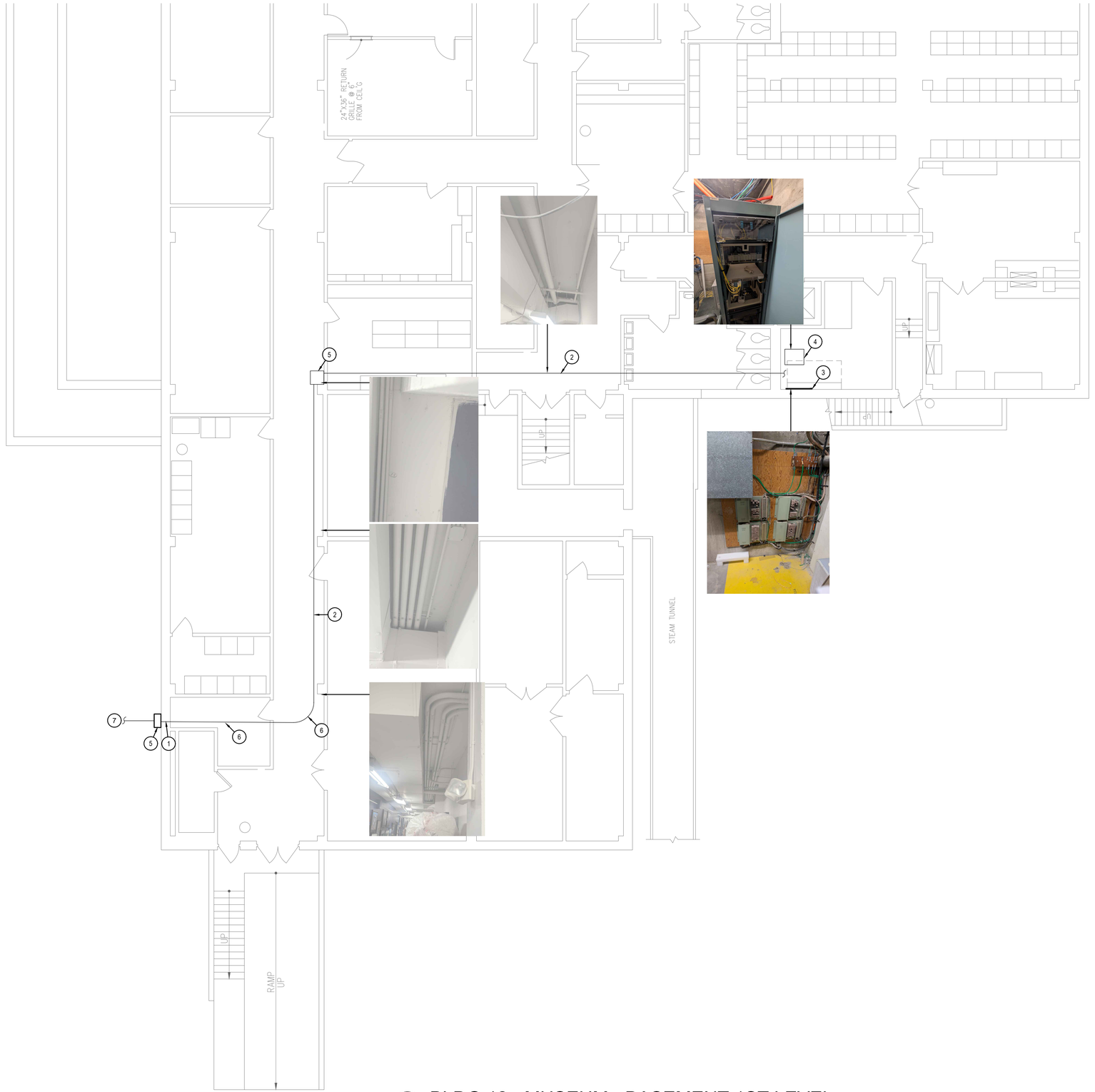
DRAWN: DBH | CHECK: MNB

VERIFY SCALE: Scales based on 22"x34" prints.

1-1/2 Inches

PROJECT NO.
208106-088

SHEET NO.
E201



1 BLDG 12 - MUSEUM - BASEMENT 1ST LEVEL
1/8" = 1'-0"

KEYED NOTES:

(#) SYMBOL USED FOR NOTE CALLOUT.

1. CORE DRILL (2) 4" CONDUITS THROUGH WALL INTO COMMUNICATIONS JUNCTION BOX AND SEAL GAP BETWEEN WALL AND CONDUITS.
2. INSTALL (2) NEW 4"C WITH MXED86383 MAXCELL INNERDUCTS, SEE DETAIL A ON DRAWING E301 FOR FIBER AND COPPER CABLE TO BE INSTALLED.
3. EXISTING FIBER PANEL, INSTALL NEW FIBER AND TERMINATE IN PANEL.
4. EXISTING TELEPHONE BACKBOARD, INSTALL NEW COPPER CABLES AND TERMINATE AT THIS LOCATION.
5. INSTALL NEW 3R 18"x18"x10" JUNCTION BOX.
6. INSTALL NEW 36" SWEEPING ELBOW.
7. SEE SHEET E105 FOR MORE DETAILS.

GENERAL NOTES:

1. SEE SPECIFICATION SECTION 27 15 00 FOR ISU NETCOMM INSTALLATION SPECIFICATIONS.

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DPW PROJECT #24246
ISU: UTILITY TUNNEL
PHASE 3

IDAHO STATE UNIVERSITY

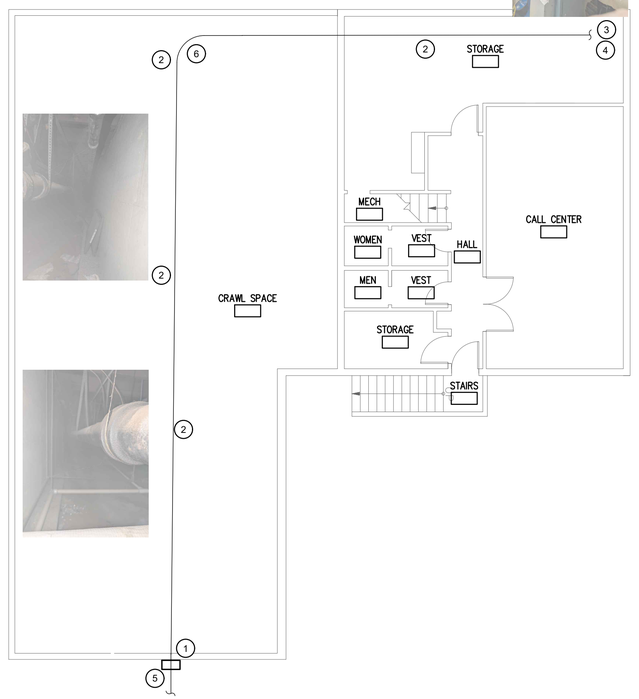
BUILDING 12 MUSEUM
BASEMENT 1ST FLOOR

DRAWN: DBH | CHECK: MNB

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO.
208106-088

SHEET NO.
E202



1 BLDG 18 - MAINTENANCE & OPERATIONS - BASEMENT

1/8" = 1'-0"

KEYED NOTES:

(#) SYMBOL USED FOR NOTE CALLOUT.

1. CORE DRILL (2) 4" CONDUITS THROUGH CRAWL SPACE VENT BOARD INTO COMMUNICATIONS JUNCTION BOX AND SEAL GAP BETWEEN WALL AND CONDUITS.
2. INSTALL (2) NEW 4"C WITH MXED86383 MAXCELL INNERDUCTS, SEE DETAIL A ON DRAWING E301 FOR FIBER AND COPPER CABLE TO BE INSTALLED.
3. EXISTING FIBER PANEL, INSTALL NEW FIBER AND TERMINATE IN PANEL.
4. EXISTING TELEPHONE BACKBOARD, INSTALL NEW COPPER CABLES.
5. INSTALL NEW 3R 18"x18"x10" JUNCTION BOX. MOUNT OVER EXISTING CRAWL SPACE VENT.
6. INSTALL NEW 36" SWEEPING ELBOW. SEE SPECIFICATIONS FOR MORE INFORMATION.

GENERAL NOTES:

1. SEE SPECIFICATION SECTION 27 15 00 FOR ISU NETCOMM INSTALLATION SPECIFICATIONS.

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DPW PROJECT #24246
ISU: UTILITY TUNNEL PHASE 3

IDAHO STATE UNIVERSITY

BUILDING 18 MAINTENANCE & OPERATIONS BASEMENT

DRAWN: DBH | CHECK: MNB

VERIFY SCALE: Scales based on 22"x34" prints.

1-1/2 Inches

PROJECT NO.
208106-088

SHEET NO.
E203

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645 West 25th Street
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PROJECT NO. 24-264

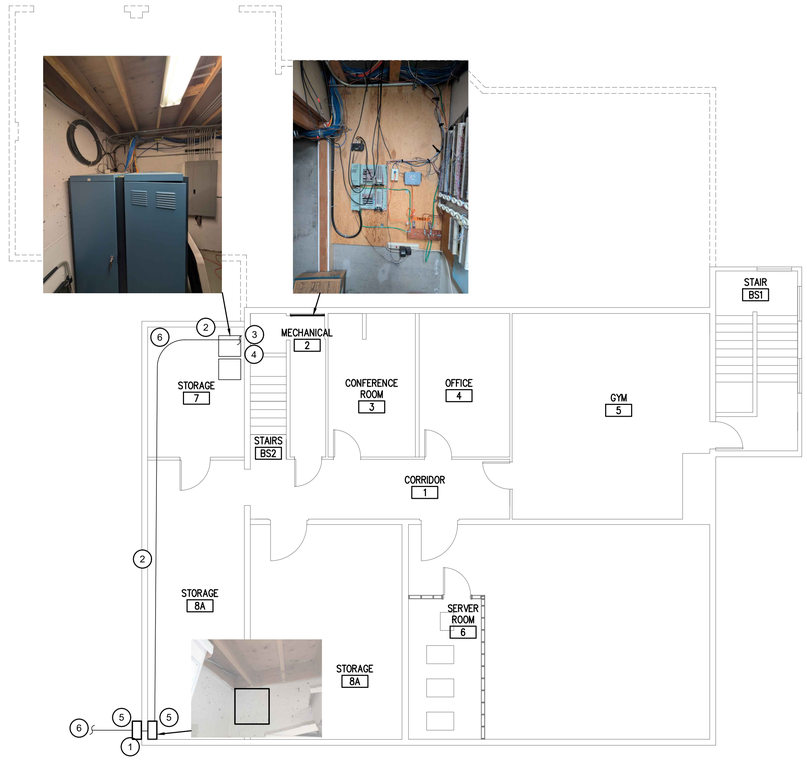
KEYED NOTES:

(#) SYMBOL USED FOR NOTE CALLOUT.

1. CORE DRILL (2) 4" CONDUITS THROUGH WALL INTO COMMUNICATIONS JUNCTION BOX AND SEAL GAP BETWEEN WALL AND CONDUITS.
2. EXISTING 4"C INSTALL NEW MXED86383 MAXCELL INNERDUCTS, SEE DETAIL A ON DRAWING E301 FOR FIBER AND COPPER CABLE TO BE INSTALLED.
3. EXISTING FIBER PANEL, INSTALL NEW FIBER AND TERMINATE IN PANEL.
4. EXISTING TELEPHONE BACKBOARD, INSTALL NEW COPPER CABLES AND TERMINATE AT THIS LOCATION.
5. INSTALL NEW 3R 18"x18"x10" JUNCTION BOX.
6. INSTALL NEW 36" SWEEPING ELBOW. SEE SPECIFICATIONS FOR MORE INFORMATION.
7. SEE SHEET E109 FOR MORE DETAILS.

GENERAL NOTES:

1. SEE SPECIFICATION SECTION 27 15 00 FOR ISU NETCOMM INSTALLATION SPECIFICATIONS.



1 BLDG 27 - CENTRAL OPERATIONS - BASEMENT
1/8" = 1'-0"

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DPW PROJECT #24246
ISU: UTILITY TUNNEL
PHASE 3

IDAHO STATE UNIVERSITY

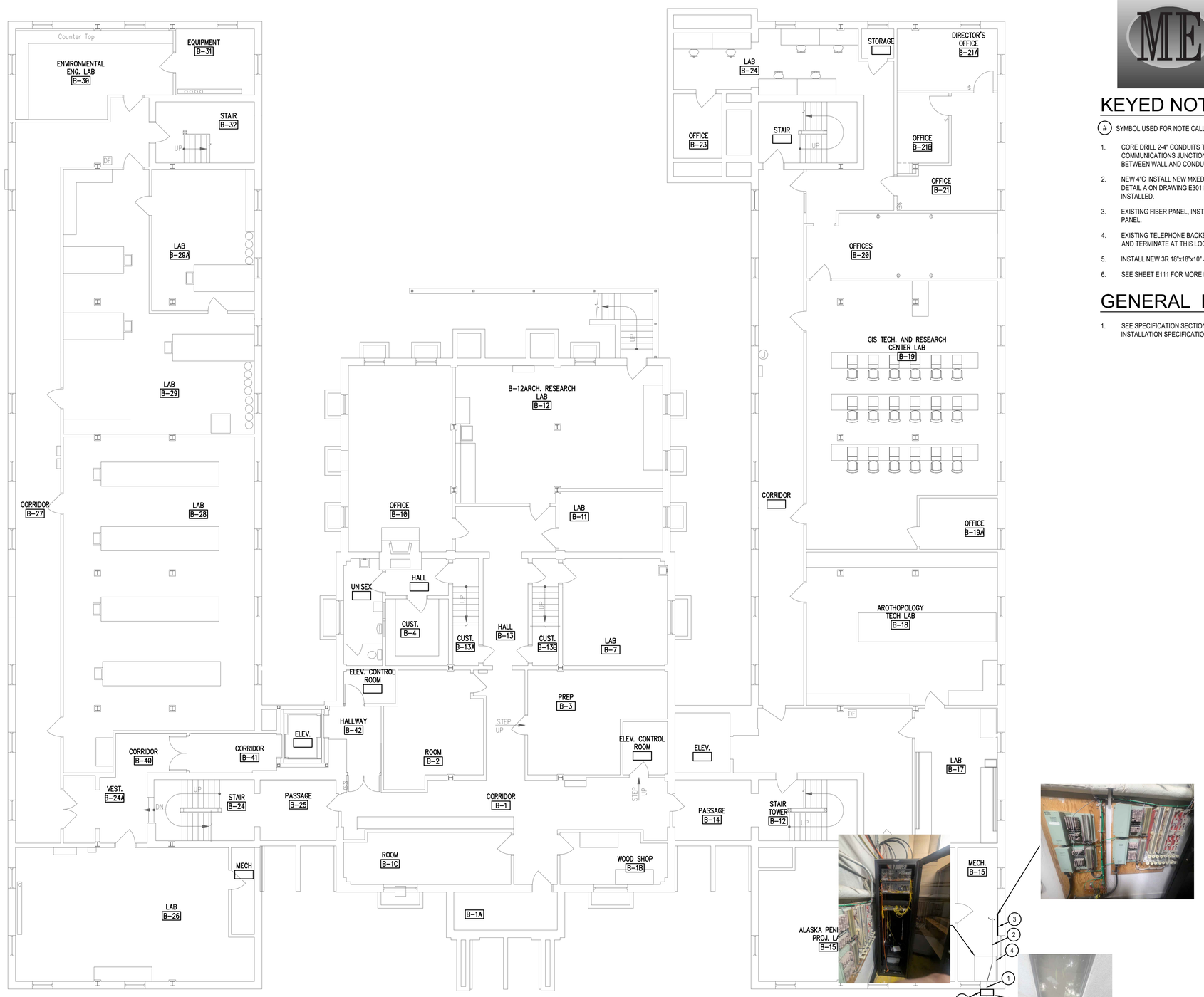
BUILDING 27 CENTRAL OPERATIONS BASEMENT

DRAWN: DBH | CHECK: MNB

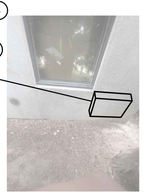
VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO.
208106-088

SHEET NO.
E204



1 BLDG 15 - GRAVELY HALL - BASEMENT
1/8" = 1'-0"



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PROJECT NO. 24-264

KEYED NOTES:

(#) SYMBOL USED FOR NOTE CALLOUT.

1. CORE DRILL 2-4" CONDUITS THROUGH WALL FROM COMMUNICATIONS JUNCTION BOX TO SERVER ROOM. SEAL GAP BETWEEN WALL AND CONDUITS.
2. NEW 4"C INSTALL NEW MXED86383 MAXCELL INNERDUCTS, SEE DETAIL A ON DRAWING E301 FOR FIBER AND COPPER CABLE TO BE INSTALLED.
3. EXISTING FIBER PANEL, INSTALL NEW FIBER AND TERMINATE IN PANEL.
4. EXISTING TELEPHONE BACKBOARD, INSTALL NEW COPPER CABLES AND TERMINATE AT THIS LOCATION.
5. INSTALL NEW 3R 18"x18"x10" JUNCTION BOX.
6. SEE SHEET E111 FOR MORE DETAILS.

GENERAL NOTES:

1. SEE SPECIFICATION SECTION 27 15 00 FOR ISU NETCOMM INSTALLATION SPECIFICATIONS.

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DPW PROJECT #24246
ISU: UTILITY TUNNEL
PHASE 3

IDAHO STATE UNIVERSITY

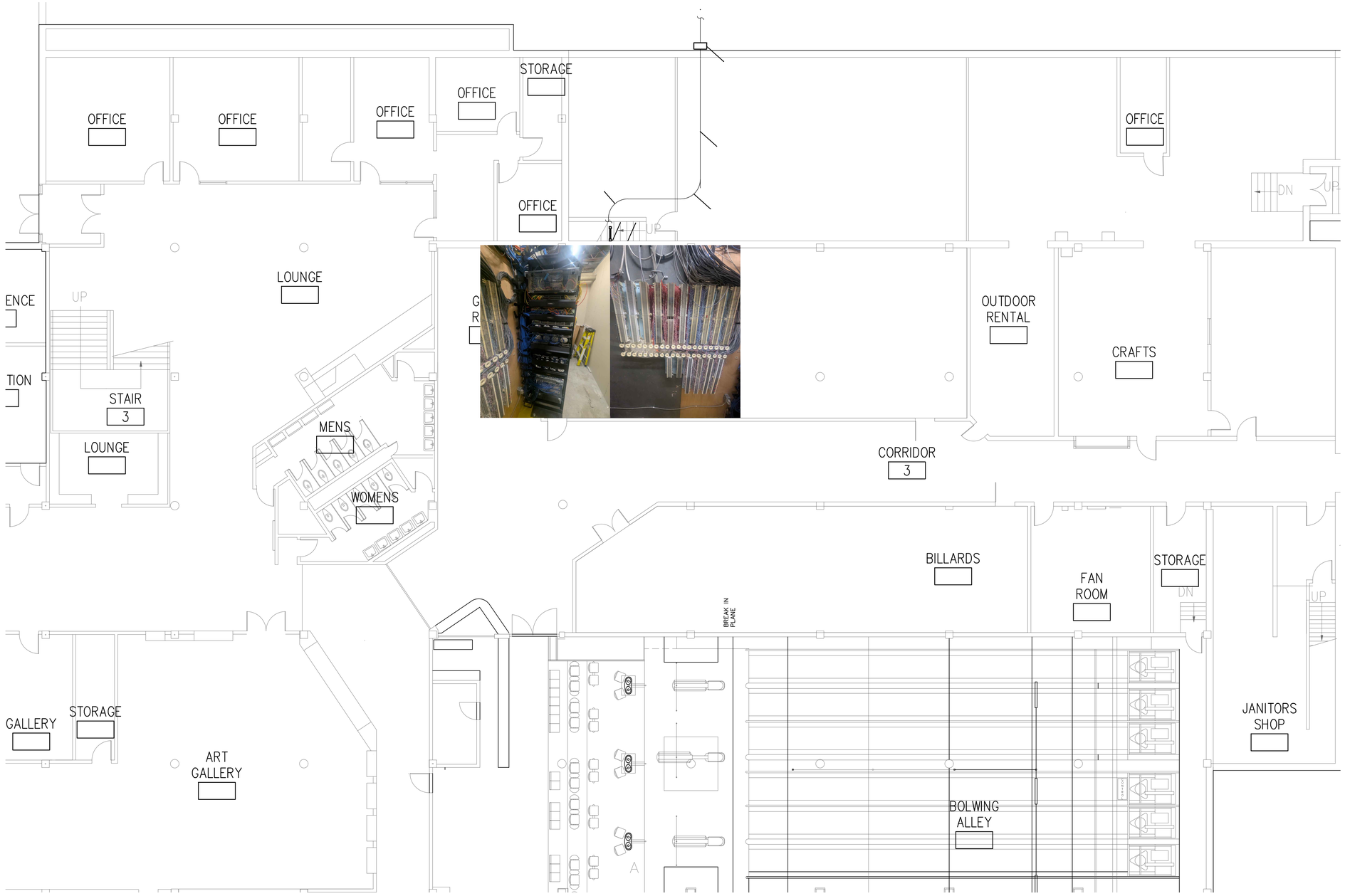
BUILDING 15 GRAVELY HALL
BASEMENT

DRAWN: DBH | CHECK: MNB

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO.
208106-088

SHEET NO.
E206



1 BLDG 14 - POND STUDENT UNION
1/8" = 1'-0"

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PROJECT NO. 24-264

KEYED NOTES:

(#) SYMBOL USED FOR NOTE CALLOUT.

1. CORE DRILL 2-4" CONDUITS THROUGH WALL INTO COMMUNICATIONS JUNCTION BOX AND SEAL GAP BETWEEN WALL AND CONDUITS.
2. NEW 4"C INSTALL NEW MXED86383 MAXCELL INNERDUCTS, SEE DETAIL A ON DRAWING E301 FOR FIBER AND COPPER CABLE TO BE INSTALLED.
3. EXISTING FIBER PANEL, INSTALL NEW FIBER AND TERMINATE IN PANEL.
4. EXISTING TELEPHONE BACKBOARD, INSTALL NEW COPPER CABLES AND TERMINATE AT THIS LOCATION.
5. INSTALL NEW 3R 18"x18"x10" JUNCTION BOX.
6. INSTALL NEW 36" SWEEPING ELBOW. SEE SPECIFICATIONS FOR MORE INFORMATION.
7. SEE SHEET E111 FOR MORE DETAILS.

GENERAL NOTES:

1. SEE SPECIFICATION SECTION 27 15 00 FOR ISU NETCOMM INSTALLATION SPECIFICATIONS.

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DPW PROJECT #24246
ISU: UTILITY TUNNEL PHASE 3

IDAHO STATE UNIVERSITY

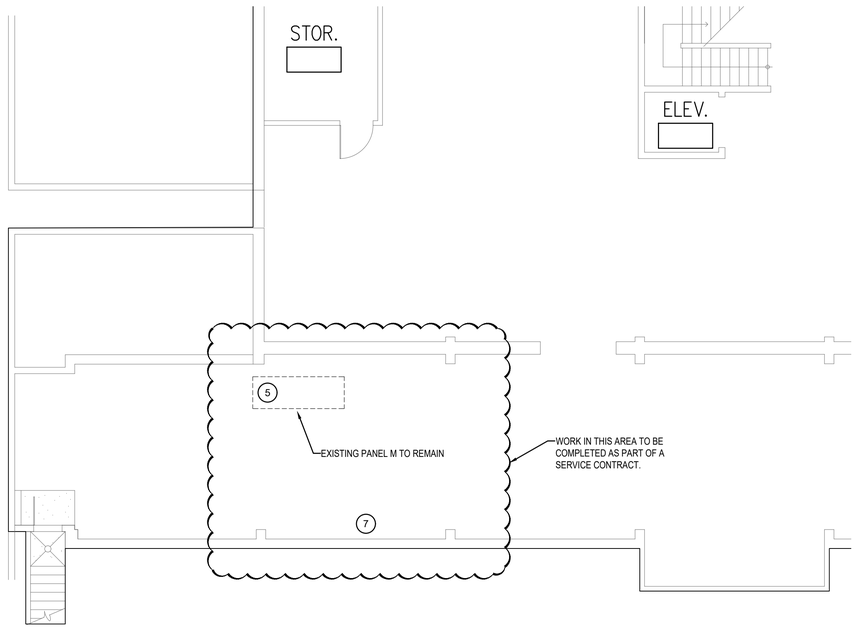
BUILDING 14 POND STUDENT UNION

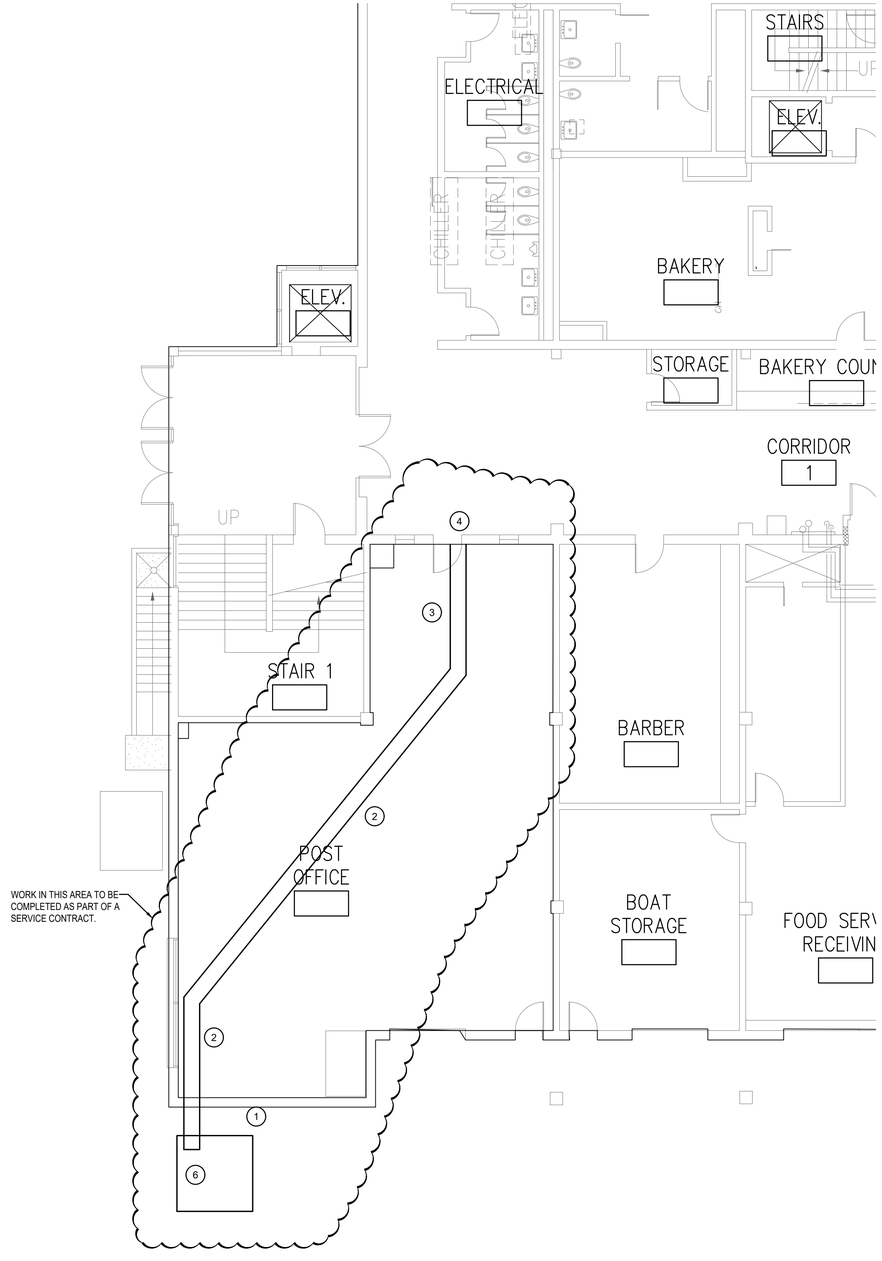
DRAWN: DBH | CHECK: MNB

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO.
208106-088

SHEET NO.
E207





KEYED NOTES:

(#) SYMBOL USED FOR NOTE CALLOUT.

1. INSTALL (6)4" CONDUITS FROM BELOW GRADE IN VAULT THROUGH THE EXTERIOR STEM WALL. COORDINATE LOCATION OF PENETRATION TO BE UNDER THE EXISTING WINDOW OPENING.
2. SAW CUT AND ROUTE NEW CONDUIT UNDER FLOOR SLAB LEVEL. RE-POUR NEW SLAB ON TOP OF CONDUITS. ALL CONDUIT COVERING CONDUITS IS TO BE RED TINT.
3. CONDUITS TO BE ROUTED LOWER IN THIS SECTION TO PENETRATE BASEMENT WALL.
4. CONDUIT TO EMERGE IN BAEMENT BELOW THIS LOCATION. COORDINATE PENETRATION IN BASEMENT SUPPORT WALL WITH EXISTING COLUMNS AND SUPPORT STRUCTURES.
5. EXISTING PANEL IN BASEMENT TO BE CONNECTED TO NEW SERVICE CONDUCTORS IN FUTURE PHASES.
6. INSTALL NEW IN GRADE PULL BOX. INSTALL 4X4X4 VAULT WITH TEMPORARY LID. VAULT MAY BE PRECAST OR CAST IN PLACE.
7. STUB CONDUITS INTO BASEMENT FOR FUTURE USE. IN THIS LOCATION.

GENERAL NOTES:

1. SEE SPECIFICATION SECTION 27 15 00 FOR ISU NETCOMM INSTALLATION SPECIFICATIONS.

1 BLDG 14 - POND STUDENT UNION BASEMENT
1/8" = 1'-0"

2 BLDG 14 - POND STUDENT UNION FIRST FLOOR
1/8" = 1'-0"

MUSGROVE ENGINEERING, P.A.
234 S. Whisperwood Way
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Idaho Falls, ID 83402
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www.musgrovepa.com
PROJECT NO. 24-264

KELLER ASSOCIATES
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Pocatello, Idaho 83201
(208) 238-2146

PROFESSIONAL ENGINEER REGISTERED 12731 8/25/2025 STATE OF IDAHO NICK SCHAFER

NO.	REVISIONS	DATE
1	REVISION #1	7/15/2022

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DPW PROJECT #24246
ISU: UTILITY TUNNEL
PHASE 3

IDAHO STATE UNIVERSITY

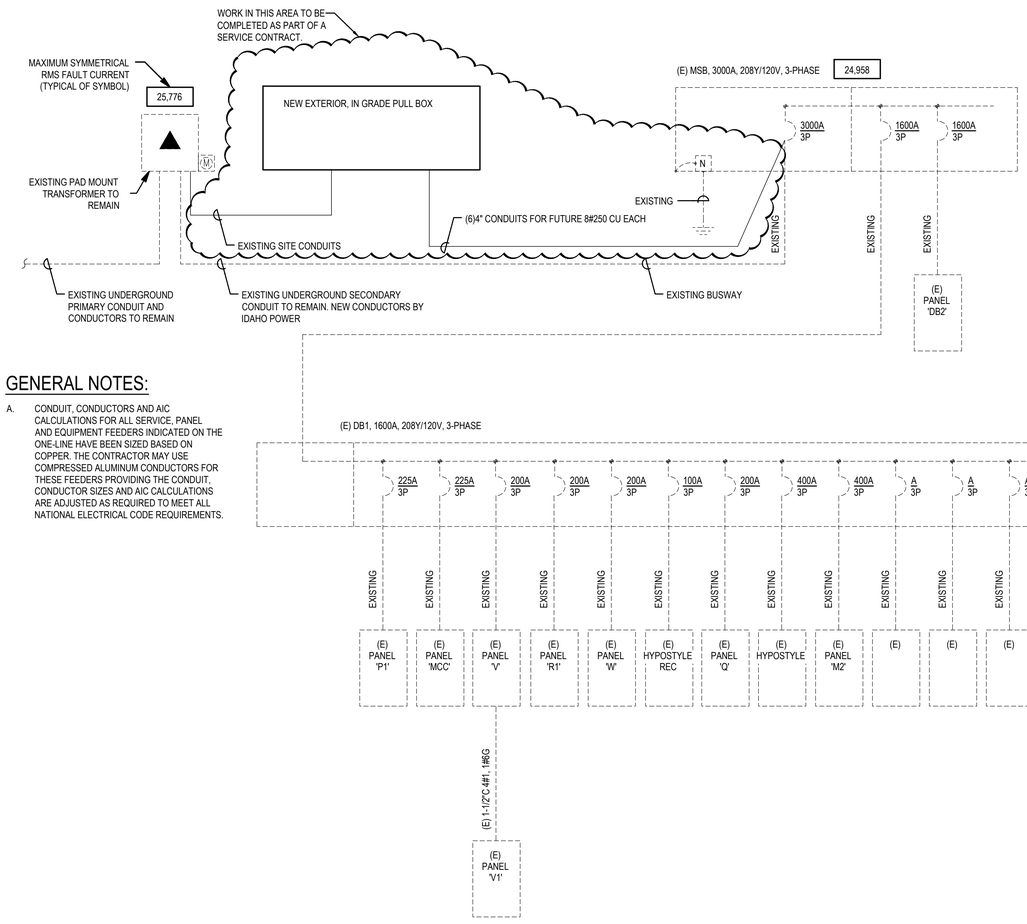
BUILDING 14 POND STUDENT UNION

DRAWN: DBH | CHECK: MNB

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO.
208106-088

SHEET NO.
E208



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.

1 BLDG 14 - REVISED POND STUDENT UNION ONE-LINE DIAGRAM

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DPW PROJECT #24246
ISU: UTILITY TUNNEL
PHASE 3

IDAHO STATE UNIVERSITY

BUILDING 14 POND STUDENT UNION

DRAWN: DBH | CHECK: MNB

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO.
208106-088

SHEET NO.
E209

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234 S. Whisperwood Way
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PROJECT NO. 24-264

KELLER ASSOCIATES
305 North 3rd Ave, Suite A
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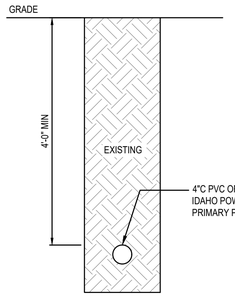
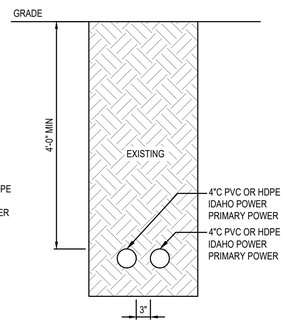
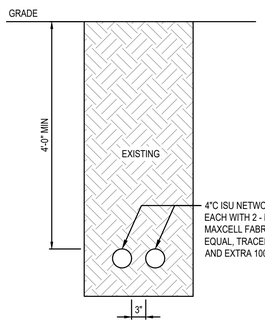


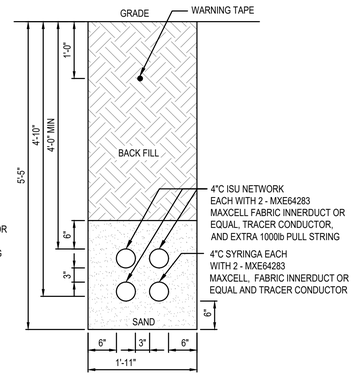
B / E300 UTILITY BORE SECTION B
SCALE: 3/4" = 1'-0"



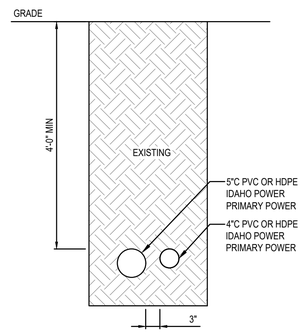
B1 / E300 UTILITY BORE SECTION B1
SCALE: 3/4" = 1'-0"



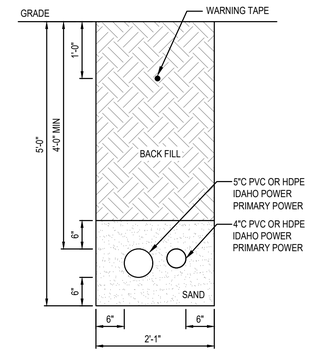
C1 / E300 UTILITY BORE SECTION C1
SCALE: 3/4" = 1'-0"



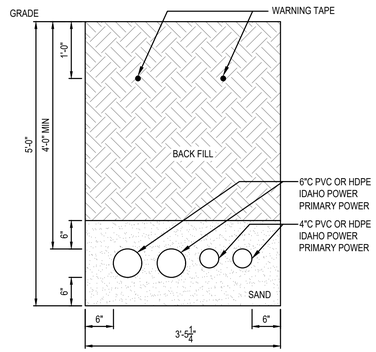
D1 / E300 UTILITY TRENCH SECTION D1
SCALE: 3/4" = 1'-0"



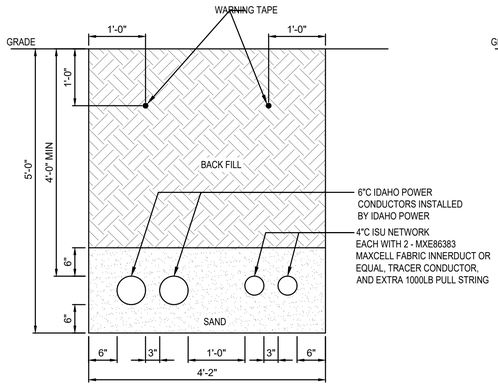
F2 / E300 UTILITY BORE SECTION F2
SCALE: 3/4" = 1'-0"



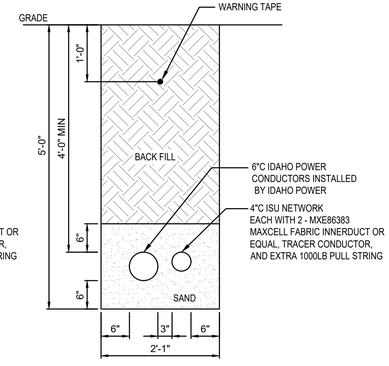
F2T / E300 UTILITY TRENCH SECTION F2T
SCALE: 3/4" = 1'-0"



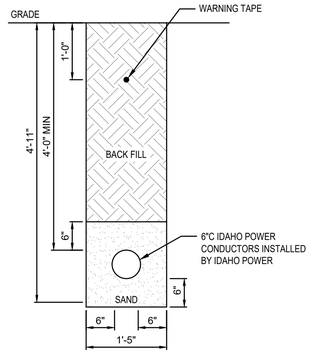
F3T / E300 UTILITY TRENCH SECTION F3T
SCALE: 3/4" = 1'-0"



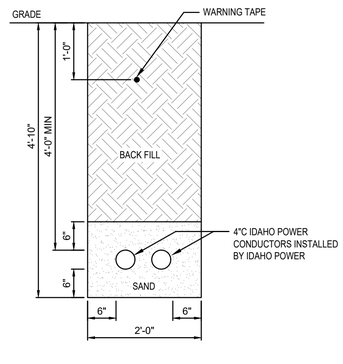
G1-A1 / E300 UTILITY TRENCH SECTION G1-A1
SCALE: 3/4" = 1'-0"



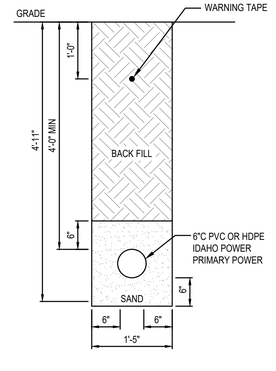
G1-B / E300 UTILITY TRENCH SECTION G1-B
SCALE: 3/4" = 1'-0"



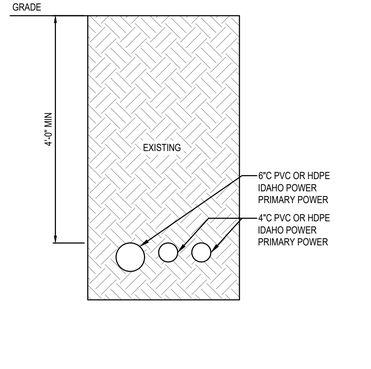
G1-D / E300 UTILITY TRENCH SECTION G1-D
SCALE: 3/4" = 1'-0"



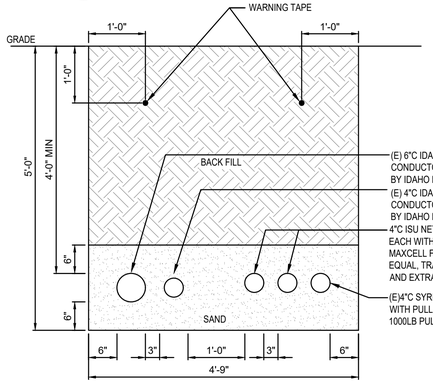
G1-E / E300 UTILITY TRENCH SECTION G1-E
SCALE: 3/4" = 1'-0"



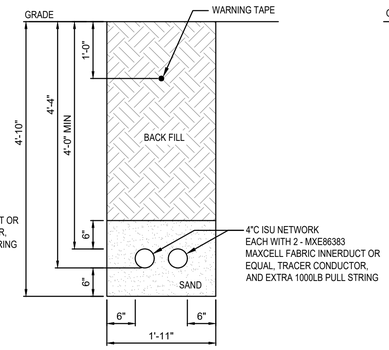
I / E300 UTILITY TRENCH SECTION I
SCALE: 3/4" = 1'-0"



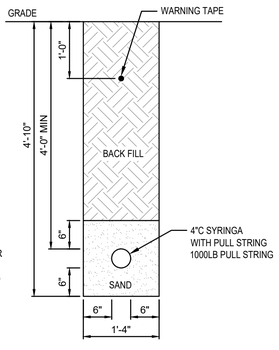
J / E300 UTILITY BORE SECTION J
SCALE: 3/4" = 1'-0"



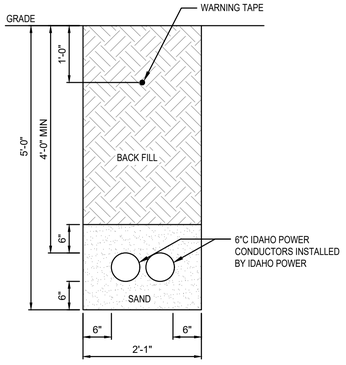
G1-A / E300 UTILITY TRENCH SECTION G1-A
SCALE: 3/4" = 1'-0"



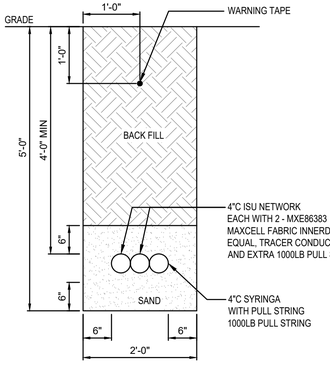
G1-F / E300 UTILITY TRENCH SECTION G1-F
SCALE: 3/4" = 1'-0"



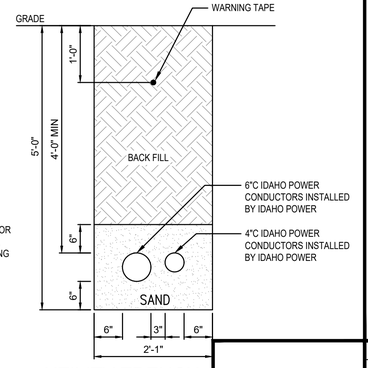
G1-G / E300 UTILITY TRENCH SECTION G1-G
SCALE: 3/4" = 1'-0"



G1-H / E300 UTILITY TRENCH SECTION G1-H
SCALE: 3/4" = 1'-0"



G1-I / E300 UTILITY TRENCH SECTION G1-I
SCALE: 3/4" = 1'-0"



G1-J / E300 UTILITY TRENCH SECTION G1-J
SCALE: 3/4" = 1'-0"

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DPW PROJECT #24246
ISU: UTILITY TUNNEL
PHASE 3

IDAHO STATE UNIVERSITY

ELECTRICAL DETAILS

DRAWN: DBH | CHECK: MNB

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO.
208106-088

SHEET NO.
E300

MUSGROVE
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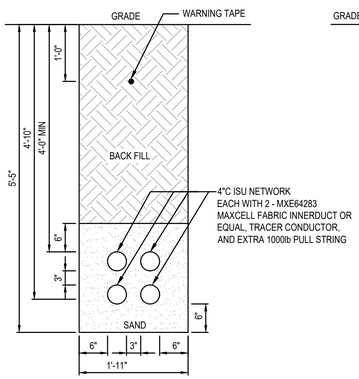
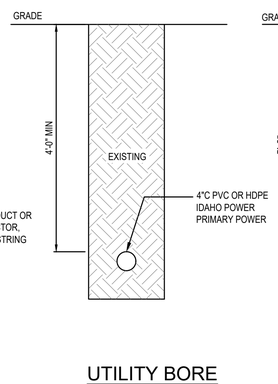
DPW PROJECT #24246
ISU: UTILITY TUNNEL
PHASE 3

IDAHO STATE UNIVERSITY

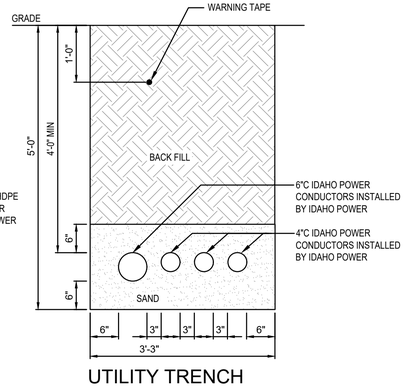
ELECTRICAL DETAILS



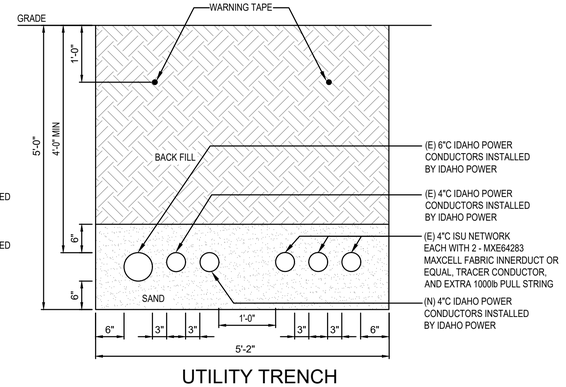
D2 / E301 UTILITY TRENCH SECTION D2
SCALE: 3/4" = 1'-0"



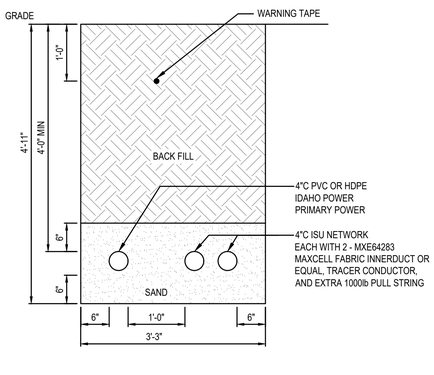
BT / E301 UTILITY BORE SECTION BT
SCALE: 3/4" = 1'-0"



G1-K / E301 UTILITY TRENCH SECTION G1-K
SCALE: 3/4" = 1'-0"



G1-L / E300 UTILITY TRENCH SECTION G1-L
SCALE: 3/4" = 1'-0"



F1 / E300A UTILITY TRENCH SECTION F
SCALE: 3/4" = 1'-0"

DRAWN: DBH | CHECK: MNB

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO.
208106-088

SHEET NO.
E300A

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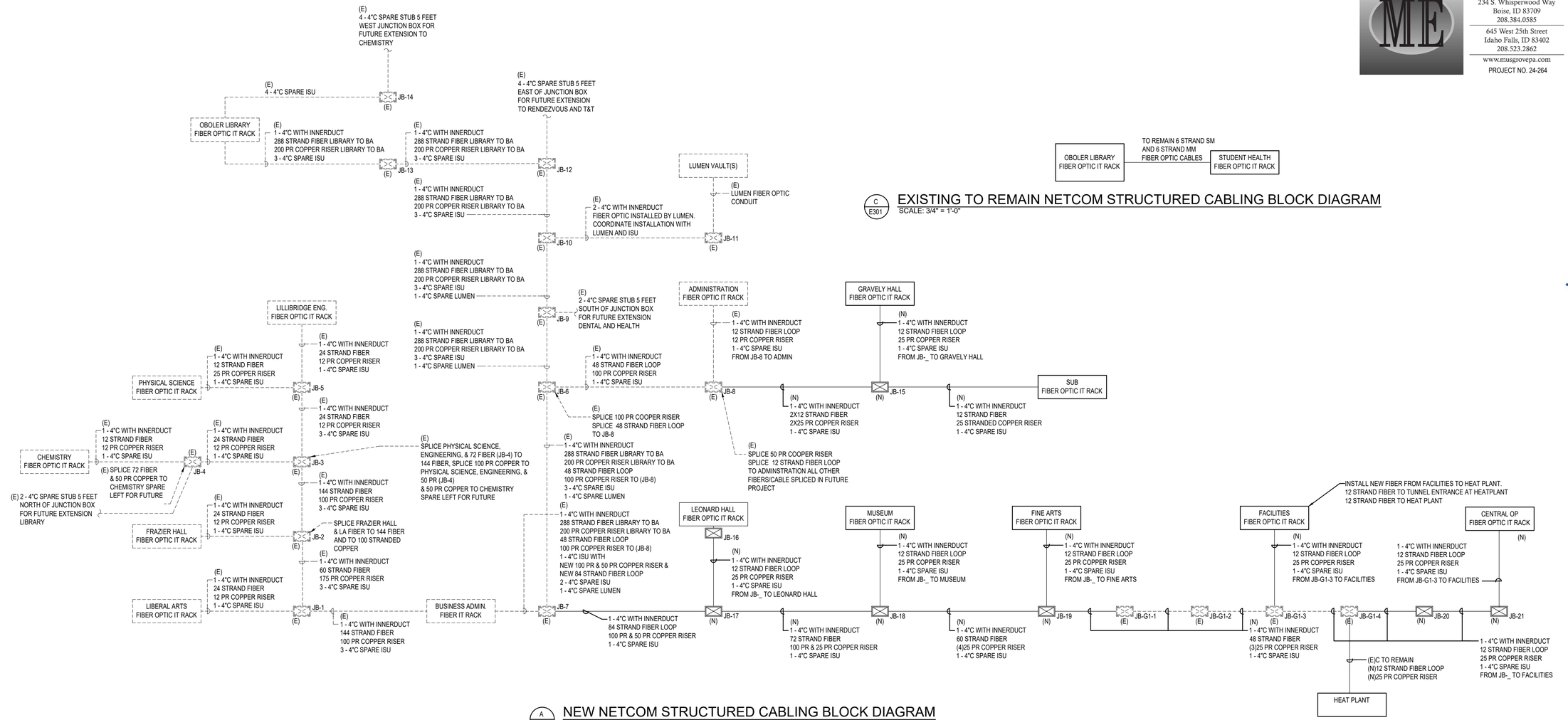
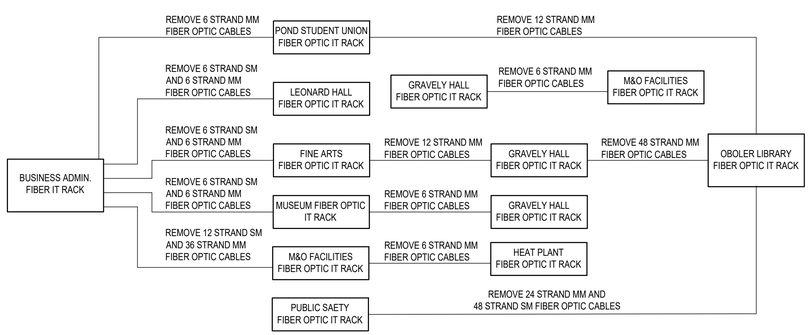


C E301 EXISTING TO REMAIN NETCOM STRUCTURED CABLING BLOCK DIAGRAM
SCALE: 3/4" = 1'-0"

A E301 NEW NETCOM STRUCTURED CABLING BLOCK DIAGRAM
SCALE: NOT TO SCALE



B E301 DEMOLITION NETCOM STRUCTURED CABLING BLOCK DIAGRAM
SCALE: 3/4" = 1'-0"

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DPW PROJECT #24246
ISU: UTILITY TUNNEL
PHASE 3

IDAHO STATE UNIVERSITY

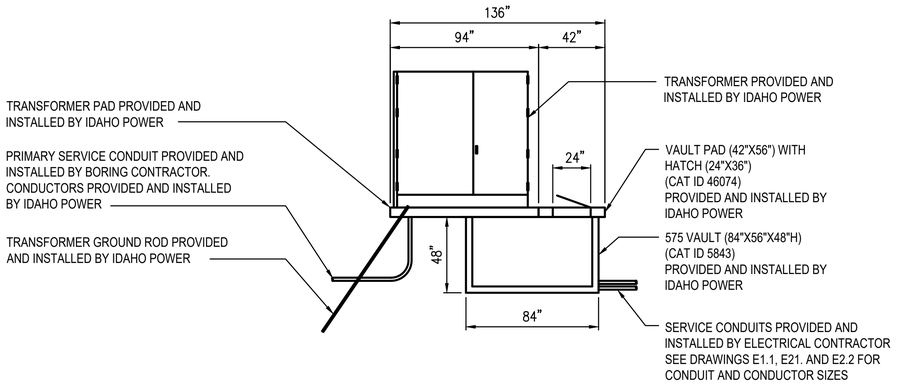
ELECTRICAL DETAILS

DRAWN: DBH | CHECK: MNB

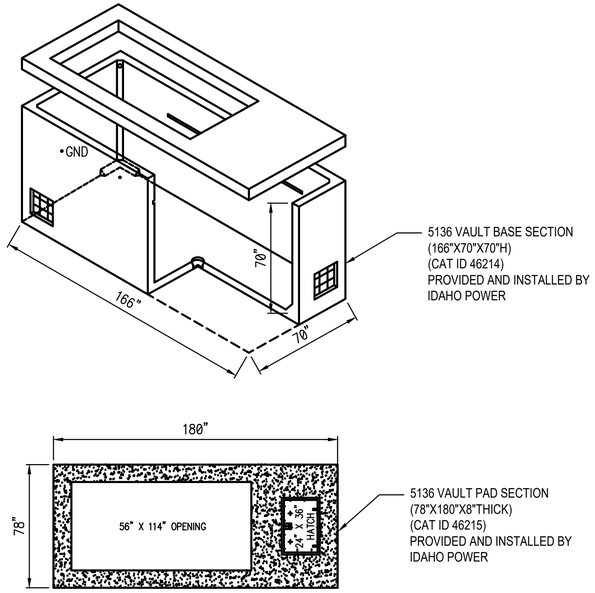
VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO.
208106-088

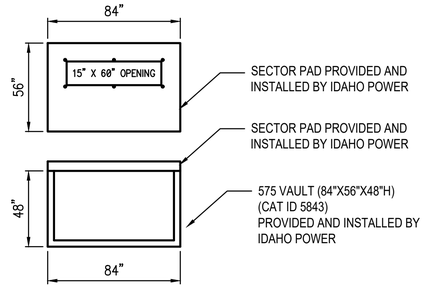
SHEET NO.
E301



C E303 TRANSFORMER VAULT DETAIL
SCALE: NTS



B E303 SWITCHGEAR VAULT PAD DETAIL
SCALE: NTS



A E303 SECTOR VAULT PAD DETAIL
SCALE: NTS

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1	REVISION #1	7/15/2022

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DPW PROJECT #24246
ISU: UTILITY TUNNEL
PHASE 3

IDAHO STATE UNIVERSITY

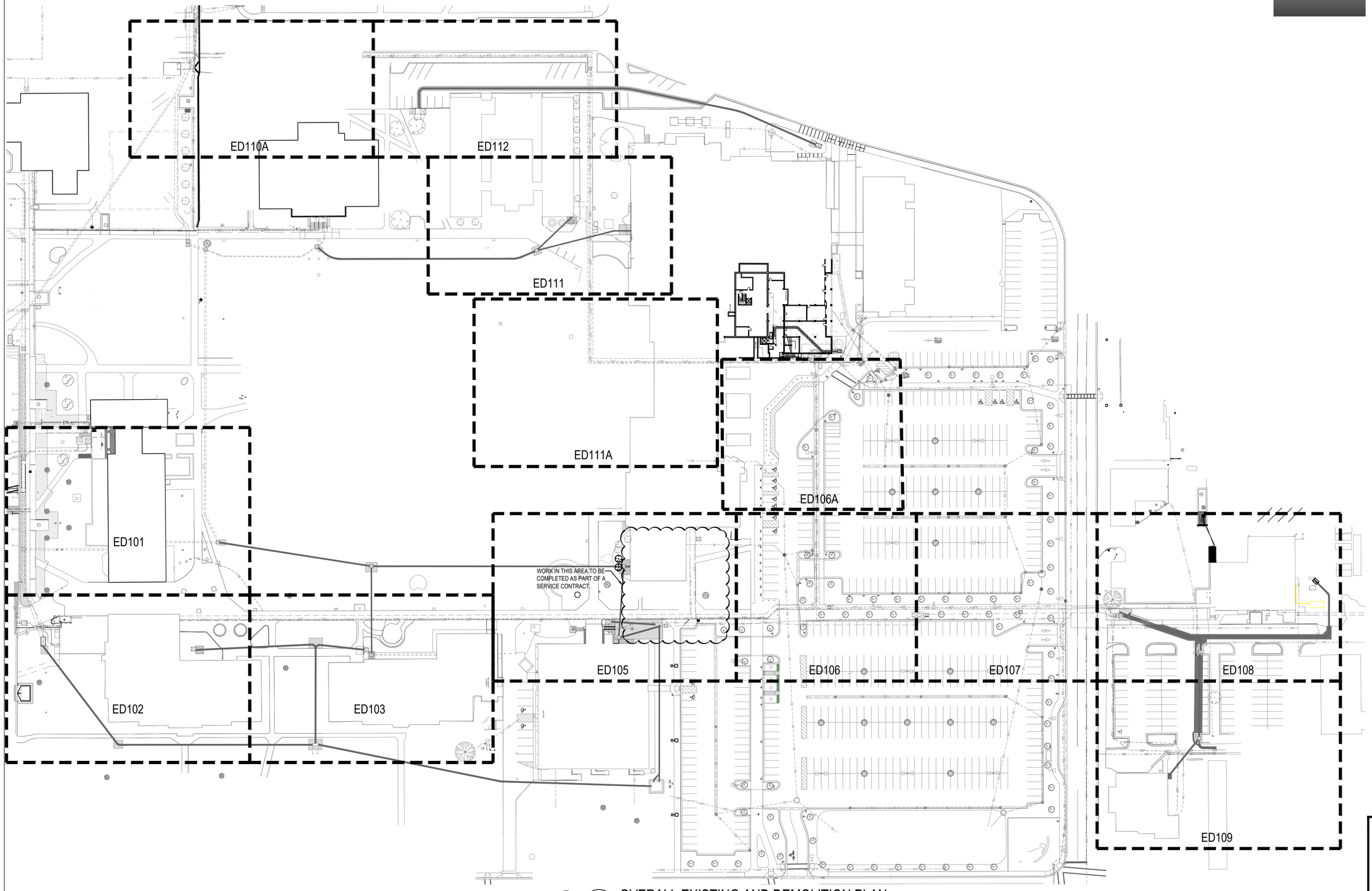
ELECTRICAL DETAILS

DRAWN: DBH | CHECK: MNB

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO.
208106-088

SHEET NO.
E302



1 OVERALL EXISTING AND DEMOLITION PLAN
1" = 50'-0"

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234 S. Whisperwood Way
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DPW PROJECT #24246
ISU: UTILITY TUNNEL
PHASE 3

IDAHO STATE UNIVERSITY

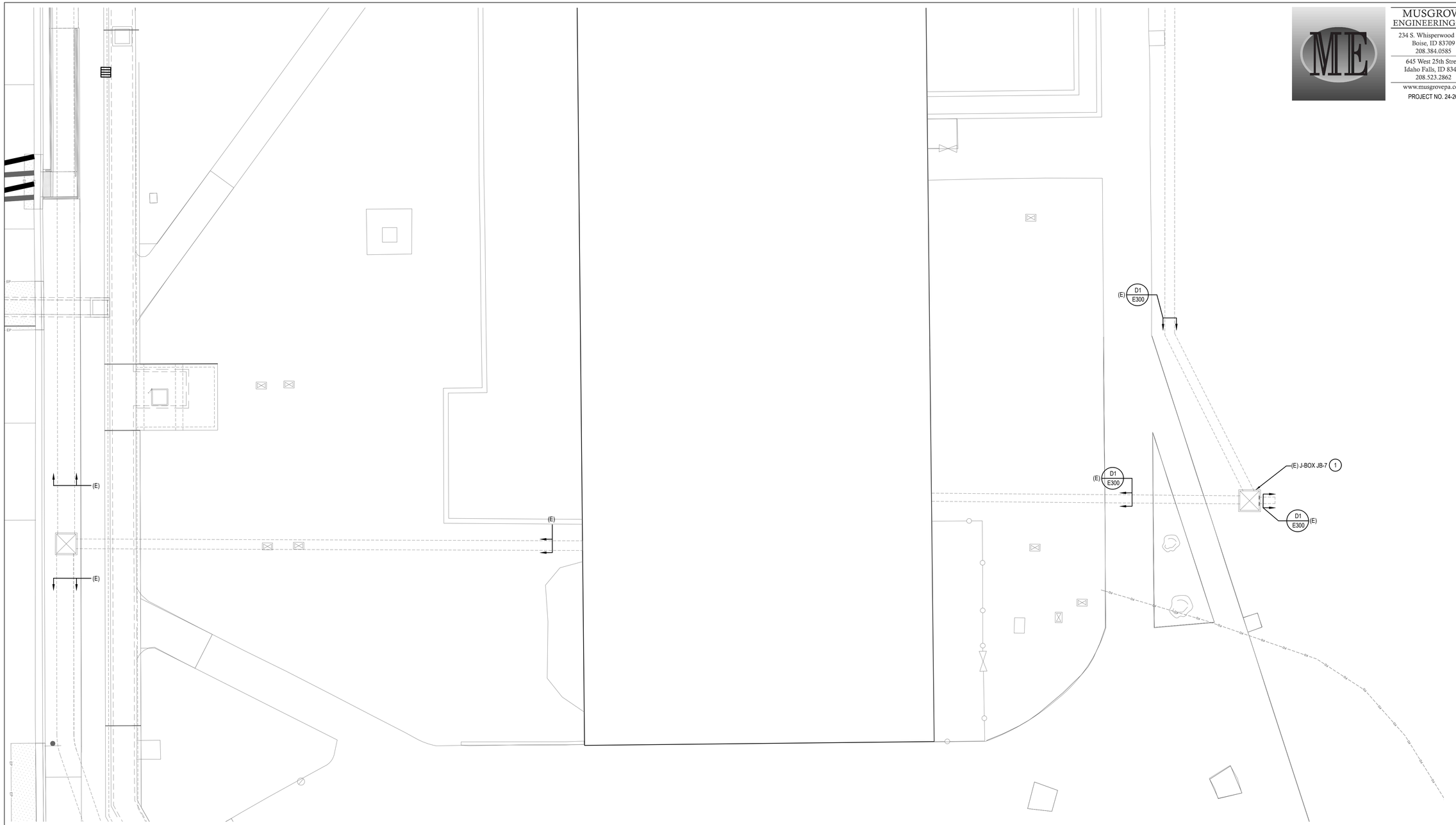
OVERALL EXISTING AND DEMOLITION PLAN

DRAWN: DBH | CHECK: MNB

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO.
208106-088

SHEET NO.
ED100



1 EXISTING AND DEMOLITION PLAN
1" = 10'-0"

KEYED NOTES:

(#) SYMBOL USED FOR NOTE CALLOUT.

1. EXISTING COMMUNICATIONS JUNCTION BOX.

MUSGROVE ENGINEERING, P.A.
234 S. Whisperwood Way
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PROFESSIONAL ENGINEER REGISTERED STATE OF IDAHO 12731 8/25/2025 NICK SCHAFER

NO.	REVISIONS	DATE

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DPW PROJECT #24246
ISU: UTILITY TUNNEL PHASE 3

IDAHO STATE UNIVERSITY

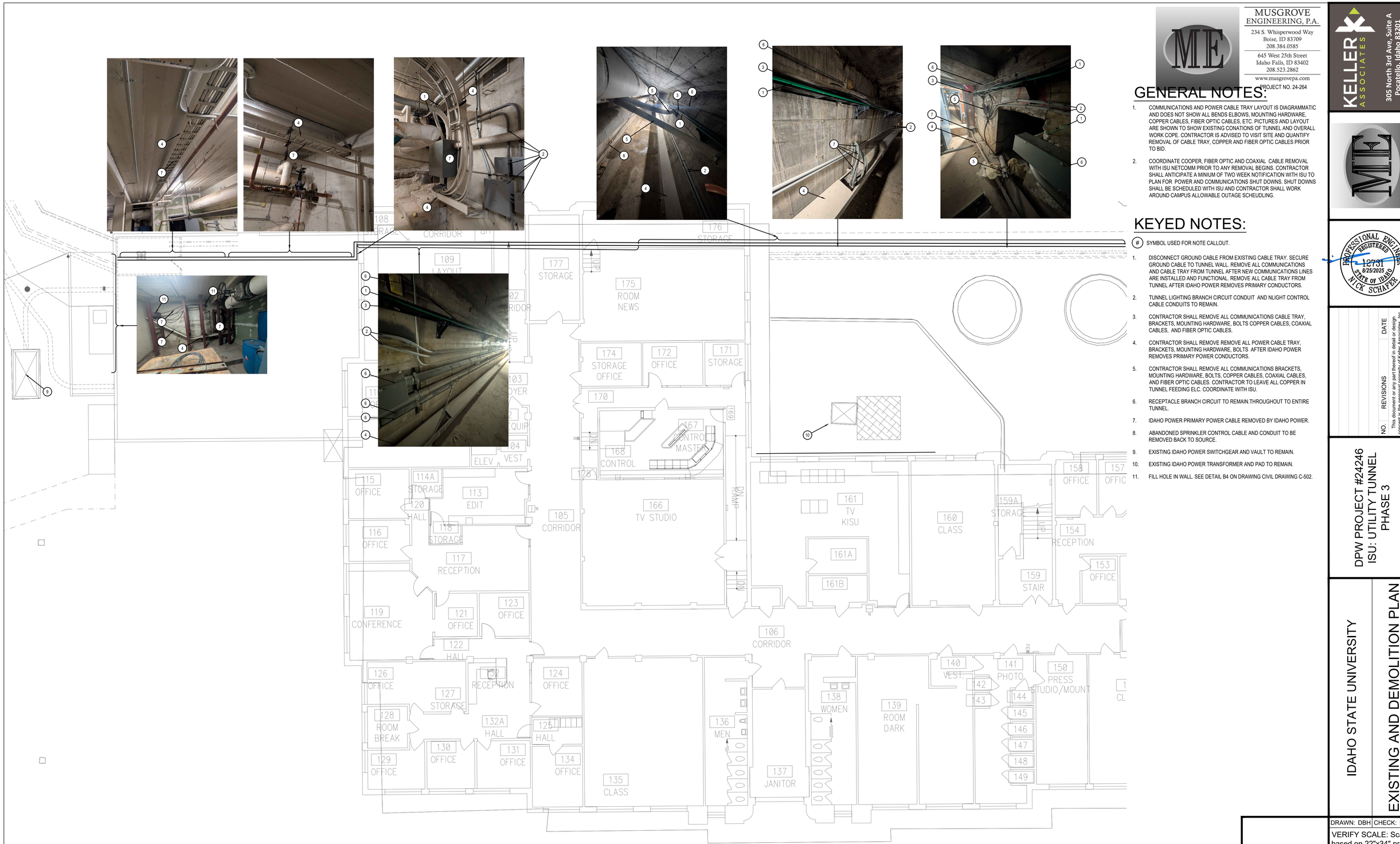
EXISTING AND DEMOLITION PLAN

DRAWN: DBH | CHECK: MNB

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO.
208106-088

SHEET NO.
ED101



1 EXISTING AND DEMOLITION PLAN
1" = 10'-0"

GENERAL NOTES:

1. COMMUNICATIONS AND POWER CABLE TRAY LAYOUT IS DIAGRAMMATIC AND DOES NOT SHOW ALL BENDS ELBOWS, MOUNTING HARDWARE, COPPER CABLES, FIBER OPTIC CABLES, ETC. PICTURES AND LAYOUT ARE SHOWN TO SHOW EXISTING CONATIONS OF TUNNEL AND OVERALL WORK COPE. CONTRACTOR IS ADVISED TO VISIT SITE AND QUANTIFY REMOVAL OF CABLE TRAY, COPPER AND FIBER OPTIC CABLES PRIOR TO BID.
2. COORDINATE COOPER, FIBER OPTIC AND COAXIAL CABLE REMOVAL WITH ISU NETCOMM PRIOR TO ANY REMOVAL BEGINS. CONTRACTOR SHALL ANTICIPATE A MINIUM OF TWO WEEK NOTIFICATION WITH ISU TO PLAN FOR POWER AND COMMUNICATIONS SHUT DOWNS. SHUT DOWNS SHALL BE SCHEDULED WITH ISU AND CONTRACTOR SHALL WORK AROUND CAMPUS ALLOWABLE OUTAGE SCHEUDLING.

KEYED NOTES:

(#) SYMBOL USED FOR NOTE CALLOUT.

1. DISCONNECT GROUND CABLE FROM EXISTING CABLE TRAY. SECURE GROUND CABLE TO TUNNEL WALL. REMOVE ALL COMMUNICATIONS AND CABLE TRAY FROM TUNNEL AFTER NEW COMMUNICATIONS LINES ARE INSTALLED AND FUNCTIONAL. REMOVE ALL CABLE TRAY FROM TUNNEL AFTER IDAHO POWER REMOVES PRIMARY CONDUCTORS.
2. TUNNEL LIGHTING BRANCH CIRCUIT CONDUIT AND NLIGHT CONTROL CABLE CONDUITS TO REMAIN.
3. CONTRACTOR SHALL REMOVE ALL COMMUNICATIONS CABLE TRAY, BRACKETS, MOUNTING HARDWARE, BOLTS COPPER CABLES, COAXIAL CABLES, AND FIBER OPTIC CABLES.
4. CONTRACTOR SHALL REMOVE REMOVE ALL POWER CABLE TRAY, BRACKETS, MOUNTING HARDWARE, BOLTS AFTER IDAHO POWER REMOVES PRIMARY POWER CONDUCTORS.
5. CONTRACTOR SHALL REMOVE ALL COMMUNICATIONS BRACKETS, MOUNTING HARDWARE, BOLTS, COPPER CABLES, COAXIAL CABLES, AND FIBER OPTIC CABLES. CONTRACTOR TO LEAVE ALL COPPER IN TUNNEL FEEDING ELC. COORDINATE WITH ISU.
6. RECEPTACLE BRANCH CIRCUIT TO REMAIN.THROUGHOUT TO ENTIRE TUNNEL.
7. IDAHO POWER PRIMARY POWER CABLE REMOVED BY IDAHO POWER.
8. ABANDONED SPRINKLER CONTROL CABLE AND CONDUIT TO BE REMOVED BACK TO SOURCE.
9. EXISTING IDAHO POWER SWITCHGEAR AND VAULT TO REMAIN.
10. EXISTING IDAHO POWER TRANSFORMER AND PAD TO REMAIN.
11. FILL HOLE IN WALL. SEE DETAIL B4 ON DRAWING CIVIL DRAWING C-502.

MUSGROVE ENGINEERING, P.A.
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Idaho Falls, ID 83402
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www.musgrovepa.com

PROJECT NO. 24-264

KELLER ASSOCIATES
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(208) 238-2146

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IDAHO STATE UNIVERSITY

EXISTING AND DEMOLITION PLAN

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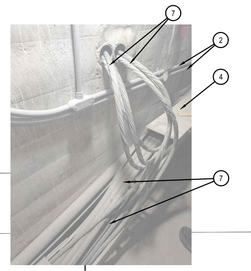
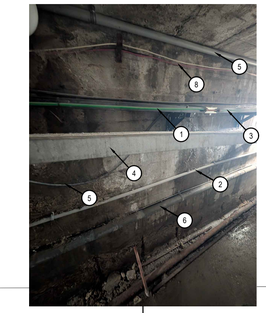
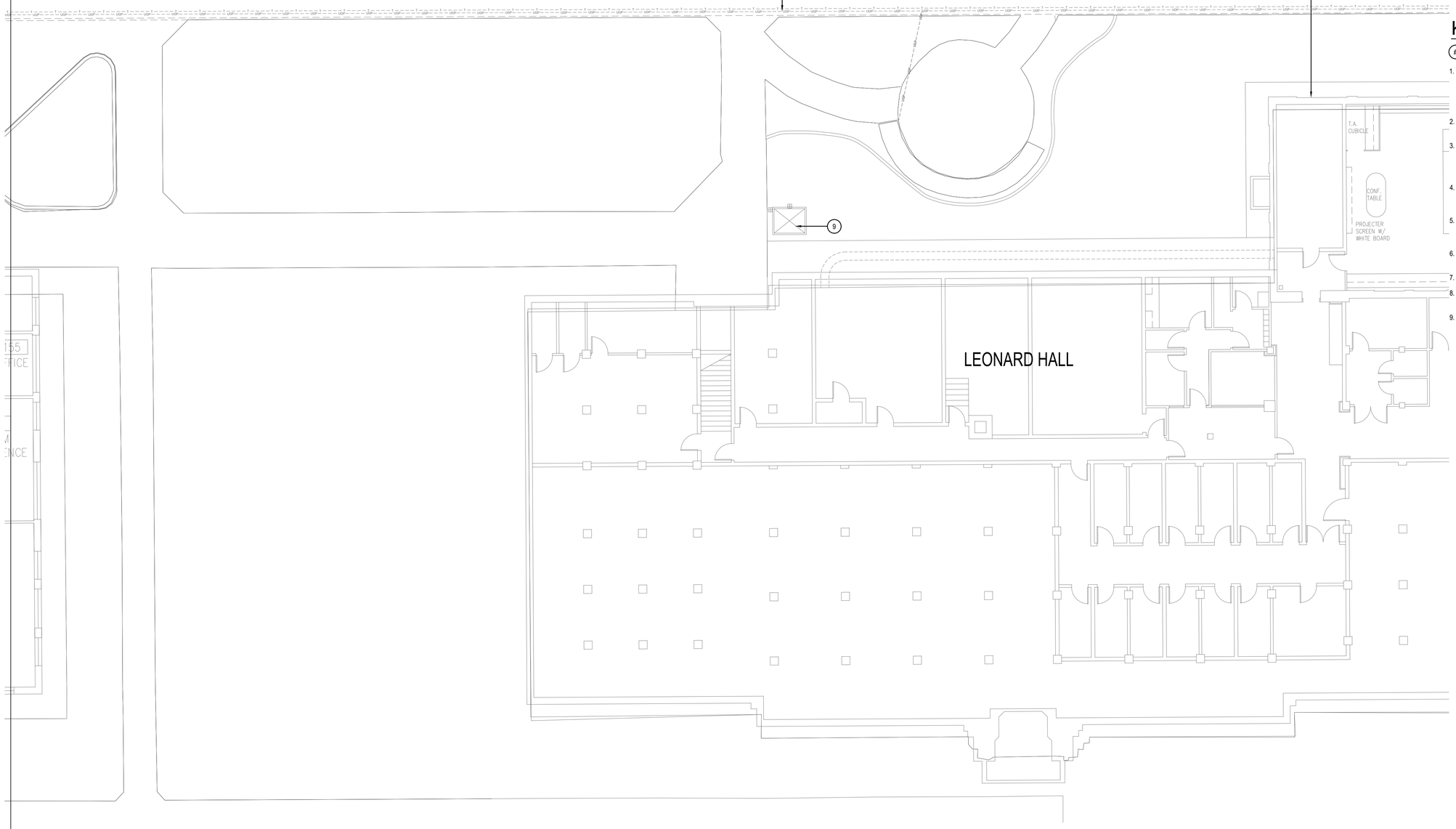
1-1/2 Inches

PROJECT NO.
208106-088

SHEET NO.
ED102







GENERAL NOTES:

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9. EXISTING IDAHO POWER TRANSFORMER AND PAD TO REMAIN

1 EXISTING AND DEMOLITION PLAN
1" = 10'-0"

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PROJECT NO. 24-264

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DPW PROJECT #24246
ISU: UTILITY TUNNEL
PHASE 3

IDAHO STATE UNIVERSITY

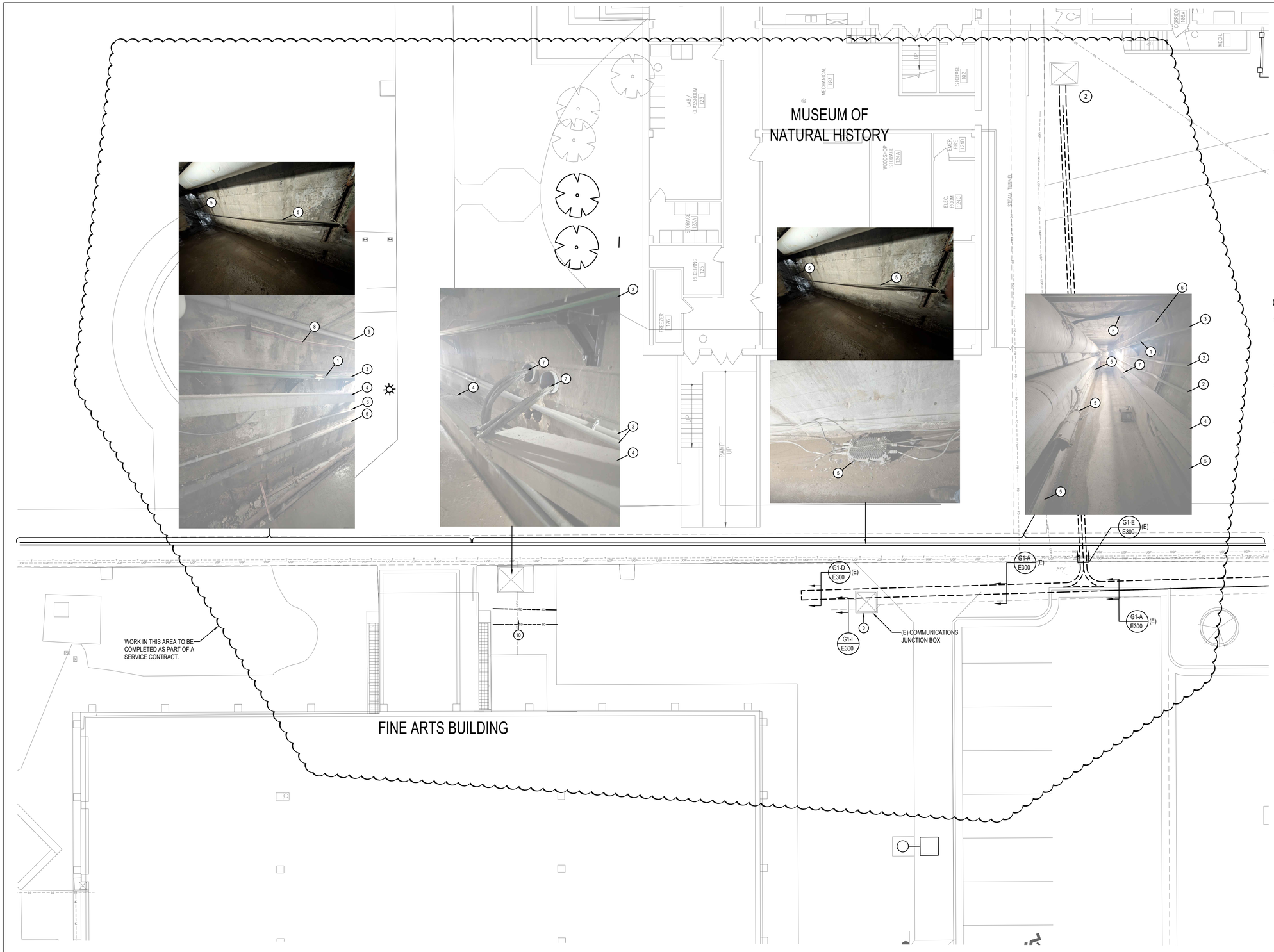
DEMOLITION PLAN

DRAWN: DBH | CHECK: MNB

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO.
208106-088

SHEET NO.
ED103



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9. EXISTING COMMUNICATION JUNCTION BOX TO REMAIN.
10. EXISTING TRANSFORMER AND PAD TO REMAIN.

1 DEMOLITION PLAN
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DPW PROJECT #24246
ISU: UTILITY TUNNEL
PHASE 3

IDAHO STATE UNIVERSITY

EXISTING AND DEMOLITION PLAN

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PROJECT NO.
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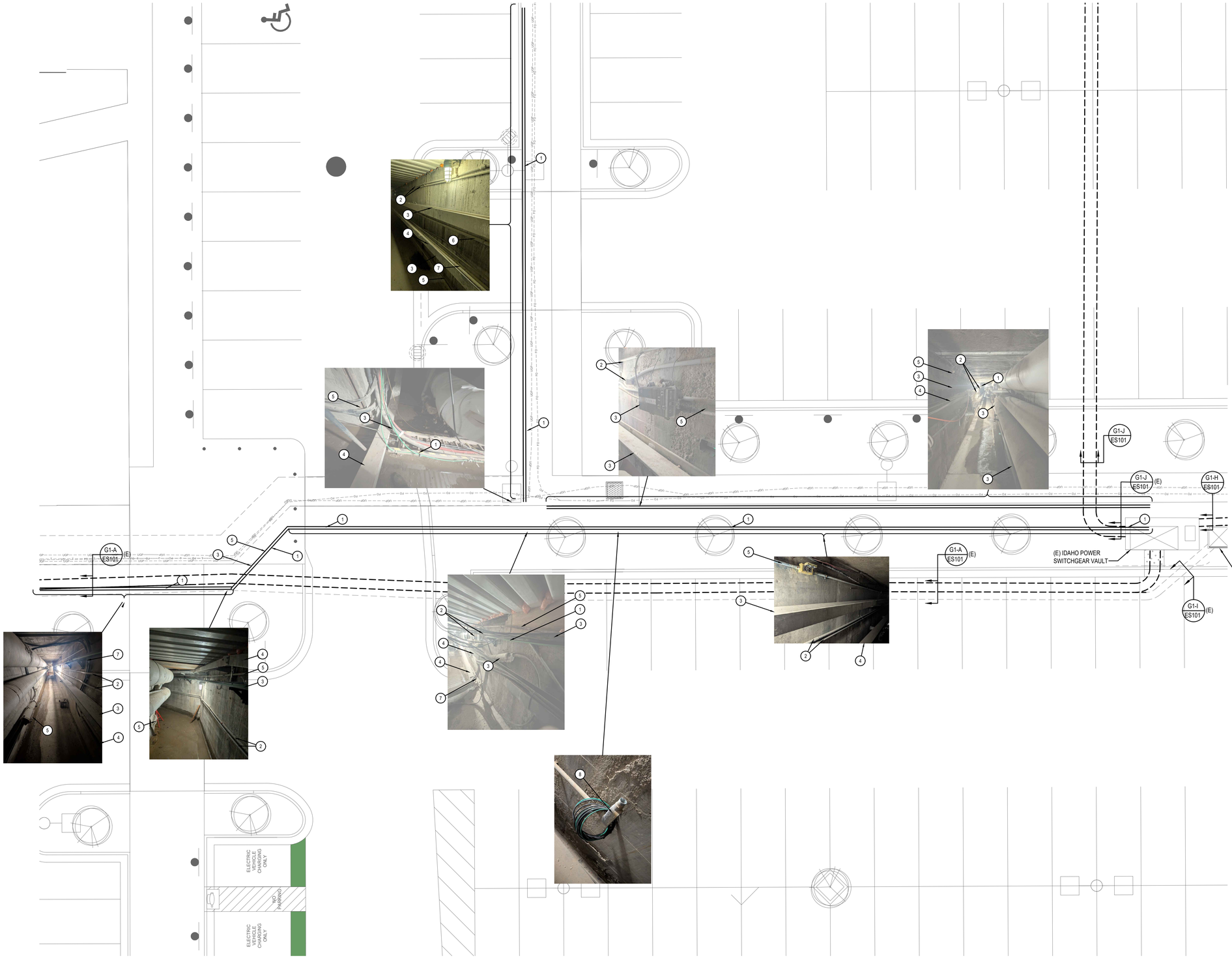
ED105



1 EXISTING PLAN
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PHASE 3

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EXISTING AND DEMOLITION PLAN

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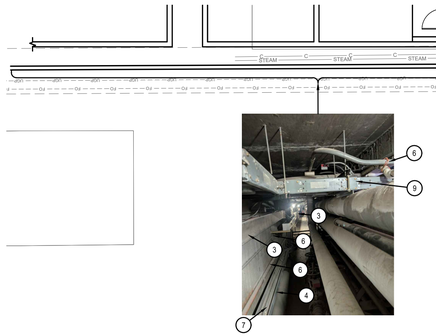
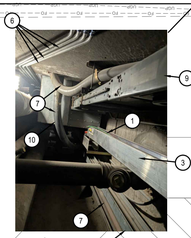
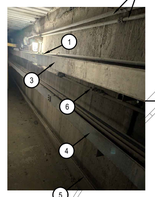
1-1/2 Inches

PROJECT NO.
208106-088

SHEET NO.
ED106







1 EXISTING PLAN
1" = 10'-0"

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PROJECT NO. 24-264

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9. 3000 AMP BUSSWAY TO STUDENT UNION SWITCHBOARD MDP1 T OBE REMOVED AFTER NEW SERVICE ENTRANCE DISCONNECT SWITCH AND NEW BUSSWAY HAS BEEN INSTALLED. SEE DRAWING E208.
10. BUSSWAY TAP UNDER TRANSFORMER. TO BE REMOVED AFTER NEW SERVICE ENTRANCE DISCONNECT SWITCH AND NEW BUSSWAY HAS BEEN INSTALLED. SEE DRAWING E208.

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DPW PROJECT #24246
ISU: UTILITY TUNNEL
PHASE 3

IDAHO STATE UNIVERSITY

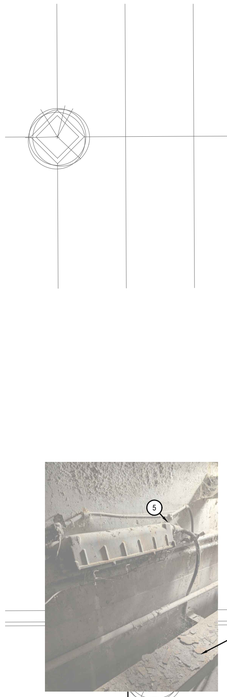
EXISTING AND DEMOLITION PLAN

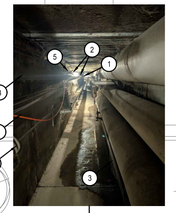
DRAWN: DBH | CHECK: MNB

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO.
208106-088

SHEET NO.
ED106A





(E) SYRINGA COMMUNICATIONS FIBER BOX TO REMAIN

(E) COMMUNICATIONS JUNCTION BOX

G1-A
E300
(E)

1 EXISTING PLAN
1" = 10'-0"

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DPW PROJECT #24246
ISU: UTILITY TUNNEL
PHASE 3

IDAHO STATE UNIVERSITY

EXISTING AND DEMOLITION PLAN

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VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO.
208106-088

SHEET NO.
ED107

FACILITIES-SERVICES

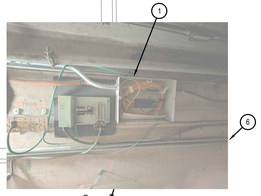
HEAT PLANT

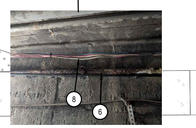
G1-A1 E300 (E)

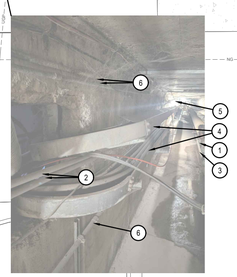
G1-H E300 (E)

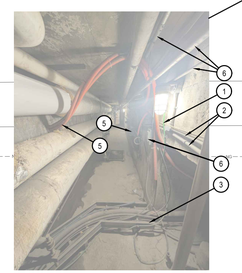
(E) IDAHO POWER SWITCHGEAR VAULT

(E) COMMUNICATIONS JUNCTION BOX









1 EXISTING PLAN
1" = 10'-0"

GENERAL NOTES:

1. COMMUNICATIONS AND POWER CABLE TRAY LAYOUT IS DIAGRAMMATIC AND DOES NOT SHOW ALL BENDS ELBOWS, MOUNTING HARDWARE, COPPER CABLES, FIBER OPTIC CABLES, ETC. PICTURES AND LAYOUT ARE SHOWN TO SHOW EXISTING CONATIONS OF TUNNEL AND OVERALL WORK COPE. CONTRACTOR IS ADVISED TO VISIT SITE AND QUANTIFY REMOVAL OF CABLE TRAY, COPPER AND FIBER OPTIC CABLES PRIOR TO BID.
2. COORDINATE COOPER, FIBER OPTIC AND COAXIAL CABLE REMOVAL WITH ISU NETCOMM PRIOR TO ANY REMOVAL BEGINS. CONTRACTOR SHALL ANTICIPATE A MINIUM OF TWO WEEK NOTIFICATION WITH ISU TO PLAN FOR POWER AND COMMUNICATIONS SHUT DOWNS. SHUT DOWNS SHALL BE SCHEDULED WITH ISU AND CONTRACTOR SHALL WORK AROUND CAMPUS ALLOWABLE OUTAGE SCHEUDLING.

KEYED NOTES:

(#) SYMBOL USED FOR NOTE CALLOUT.

1. DISCONNECT GROUND CABLE FROM EXISTING CABLE TRAY. SECURE GROUND CABLE TO TUNNEL WALL. REMOVE ALL COMMUNICATIONS AND CABLE TRAY FROM TUNNEL AFTER NEW COMMUNICATIONS LINES ARE INSTALLED AND FUNCTIONAL. REMOVE ALL CABLE TRAY FROM TUNNEL AFTER IDAHO POWER REMOVES PRIMARY CONDUCTORS.
2. TUNNEL LIGHTING BRANCH CIRCUIT CONDUIT AND NLIGHT CONTROL CABLE CONDUITS TO REMAIN.
3. CONTRACTOR SHALL REMOVE ALL COMMUNICATIONS CABLE TRAY, BRACKETS, MOUNTING HARDWARE, BOLTS COPPER CABLES, COAXIAL CABLES, AND FIBER OPTIC CABLES.
4. CONTRACTOR SHALL REMOVE REMOVE ALL POWER CABLE TRAY, BRACKETS, MOUNTING HARDWARE, BOLTS AFTER IDAHO POWER REMOVES PRIMARY POWER CONDUCTORS.
5. CONTRACTOR SHALL REMOVE ALL COMMUNICATIONS BRACKETS, MOUNTING HARDWARE, BOLTS, COPPER CABLES, COAXIAL CABLES, AND FIBER OPTIC CABLES. CONTRACTOR TO LEAVE ALL COPPER IN TUNNEL FEEDING ELC. COORDINATE WITH ISU.
6. RECEPTACLE BRANCH CIRCUIT TO REMAIN.THROUGHOUT TO ENTIRE TUNNEL.
7. IDAHO POWER PRIMARY POWER CABLE REMOVED BY IDAHO POWER.
8. ABANDONED SPRINKLER CONTROL CABLE AND CONDUIT TO BE REMOVED BACK TO SOURCE.
9. EXISTING IDAHO POWER SWITCHGEAR VAULT TO REMAIN.
10. EXISTING COMMUNICATION JUNCTION BOX TO REMAIN.
11. EXISTING COMMUNICATIONS JUNCTION BOX TO BE DEMOLISHED. COORDINATE WITH NETCOMM FOR FIBER OPTIC CABLES, AND COPPER CABLES TO SHOPS AND UNIVERSITY COURT APARTMENTS THAT MUST REMAIN ACTIVE AND PROTECT DURING CONSTRUCTION.
12. EXISTING CONDUITS FROM JUNCTION BOX TO TUNNEL TO BE ABANDONED.
13. EXISTING (4) 4"C FOR NETCOM TO REMAIN. CONDUITS ARE APPROXIMATELY 30" BELOW GRADE.

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www.musgrovepa.com

PROJECT NO. 24-264

KELLER ASSOCIATES
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(208) 238-2146

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NO.	REVISIONS	DATE

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DPW PROJECT #24246
ISU: UTILITY TUNNEL
PHASE 3

IDAHO STATE UNIVERSITY

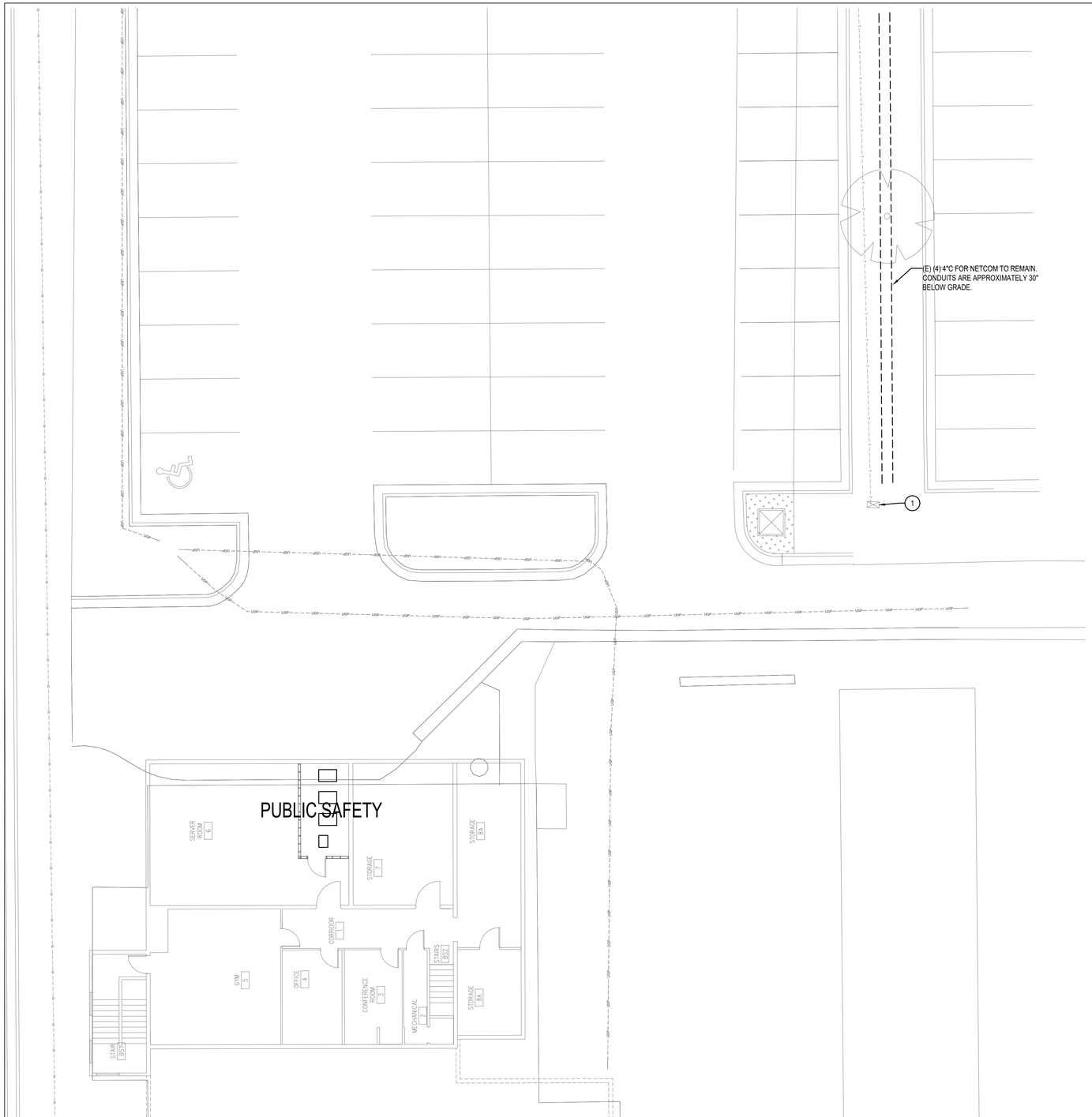
EXISTING AND DEMOLITION PLAN

DRAWN: DBH | CHECK: MNB

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO.
208106-088

SHEET NO.
ED108



1 EXISTING PLAN
1" = 10'-0"

KEYED NOTES:

(#) SYMBOL USED FOR NOTE CALLOUT.

1. EXISTING ISU NETCOM PEDESTAL TO REMAIN.

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DPW PROJECT #24246
ISU: UTILITY TUNNEL
PHASE 3

IDAHO STATE UNIVERSITY

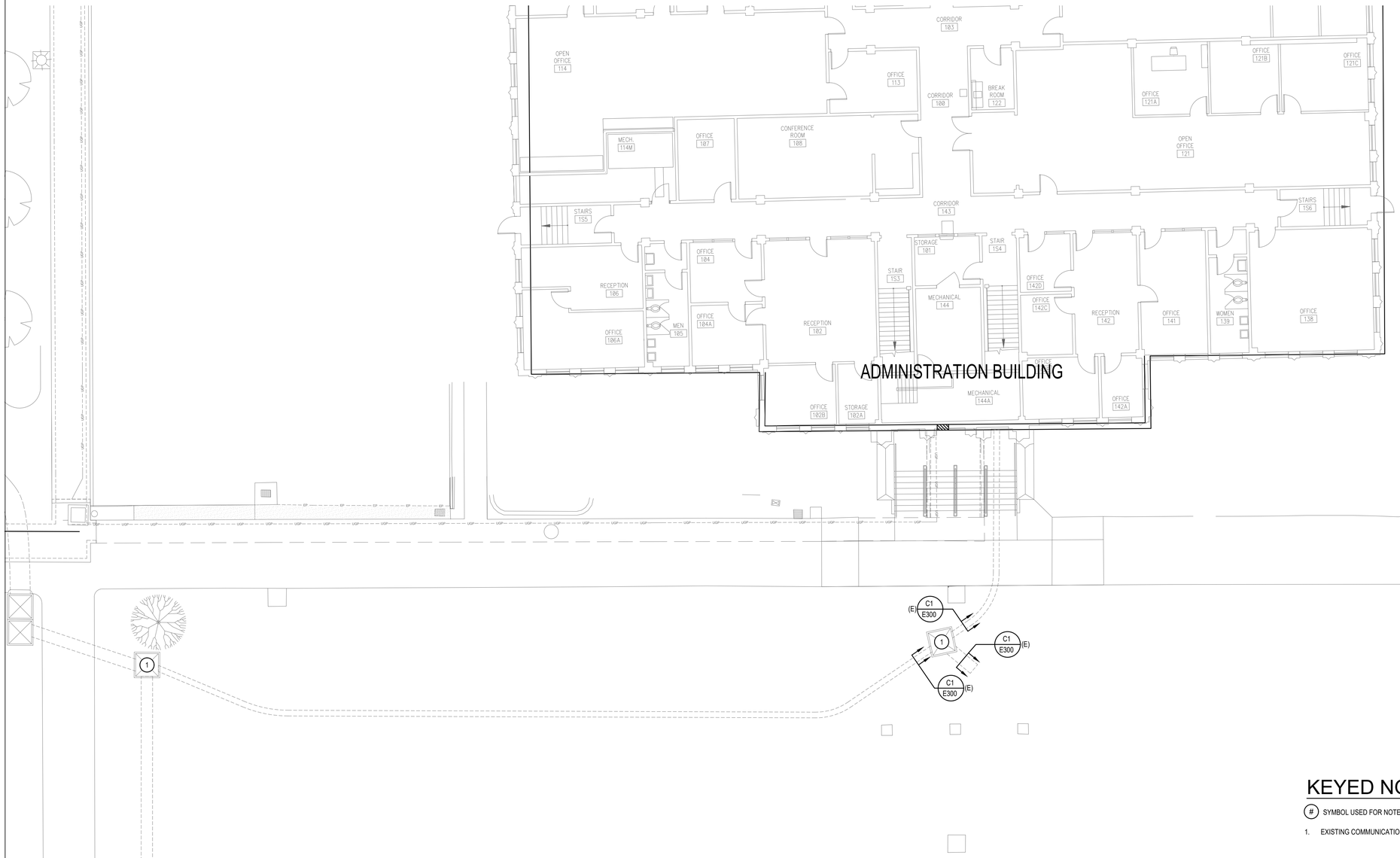
EXISTING AND DEMOLITION PLAN

DRAWN: DBH | CHECK: MNB

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO.
208106-088

SHEET NO.
ED109



KEYED NOTES:

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1. EXISTING COMMUNICATION JUNCTION BOX TO REMAIN.

1 EXISTING PLAN
1" = 10'-0"

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DPW PROJECT #24246
ISU: UTILITY TUNNEL
PHASE 3

IDAHO STATE UNIVERSITY

DEMOLITION PLAN

DRAWN: DBH | CHECK: MNB

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO.
208106-088

SHEET NO.
ED110

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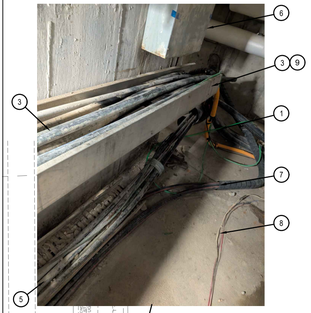

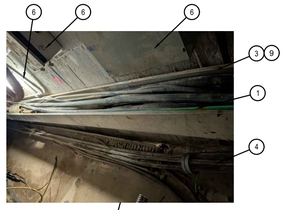

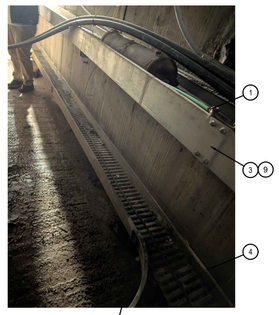

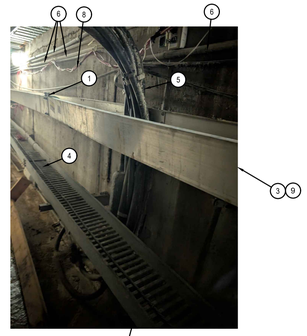

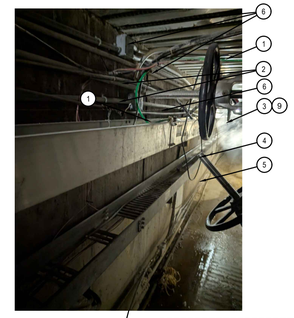

9

GENERAL NOTES:

1. COMMUNICATIONS AND POWER CABLE TRAY LAYOUT IS DIAGRAMMATIC AND DOES NOT SHOW ALL BENDS ELBOWS, MOUNTING HARDWARE, COPPER CABLES, FIBER OPTIC CABLES, ETC. PICTURES AND LAYOUT ARE SHOWN TO SHOW EXISTING CONATIONS OF TUNNEL AND OVERALL WORK COPE. CONTRACTOR IS ADVISED TO VISIT SITE AND QUANTIFY REMOVAL OF CABLE TRAY, COPPER AND FIBER OPTIC CABLES PRIOR TO BID.
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KEYED NOTES:

(#) SYMBOL USED FOR NOTE CALLOUT.

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2. TUNNEL LIGHTING BRANCH CIRCUIT CONDUIT AND NLIGHT CONTROL CABLE CONDUITS TO REMAIN.
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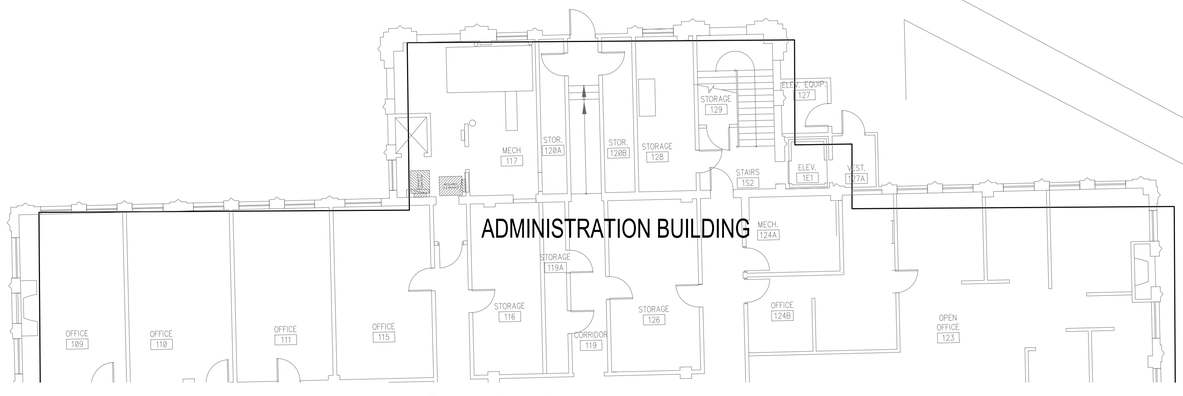

1 EXISTING PLAN
1" = 10'-0"

PROFESSIONAL ENGINEER REGISTERED 12731 8/25/2025 STATE OF IDAHO NICK SCHAFER

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DPW PROJECT #24246
ISU: UTILITY TUNNEL
PHASE 3

IDAHO STATE UNIVERSITY

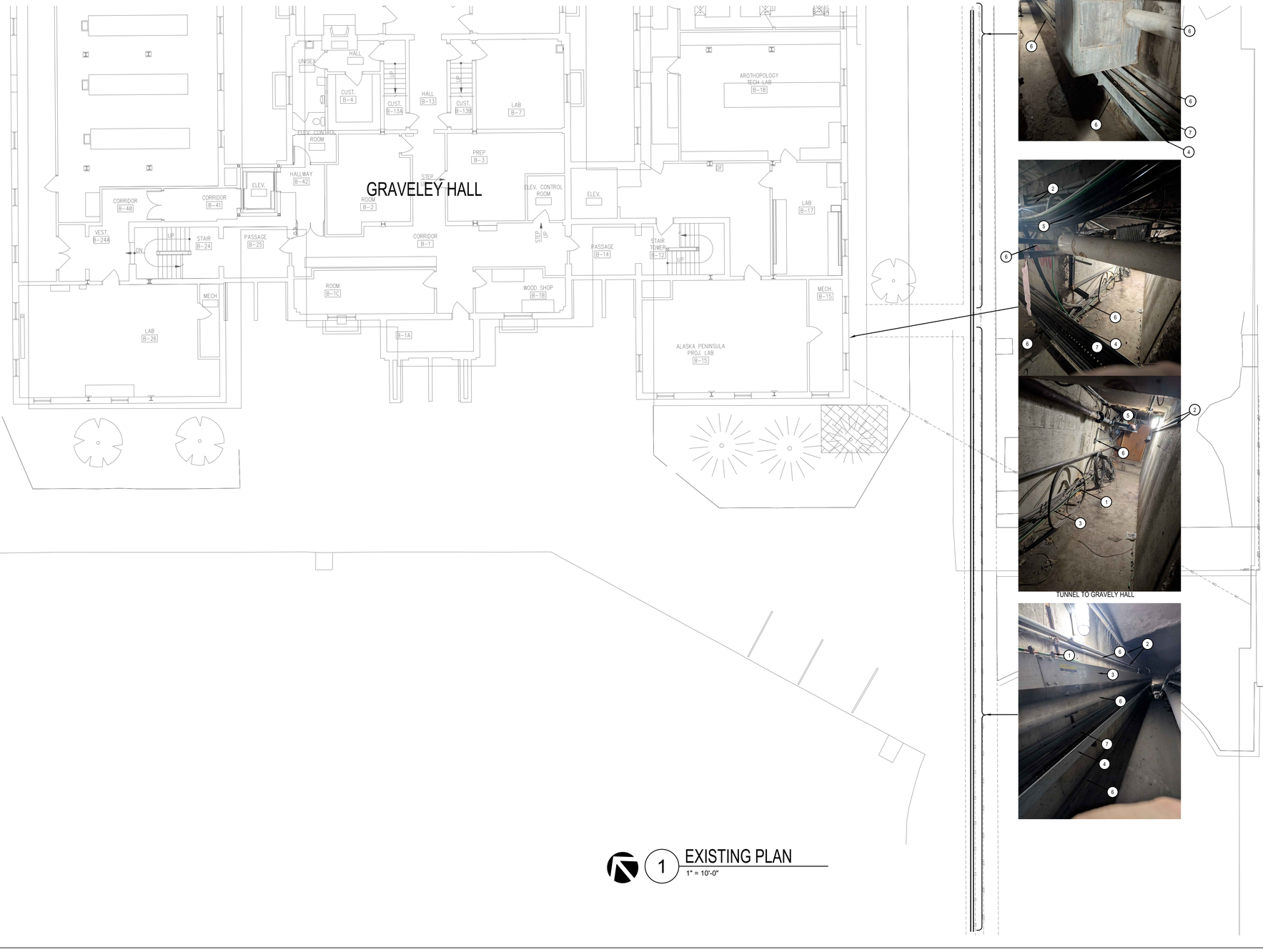
DEMOLITION PLAN

DRAWN: DBH | CHECK: MNB

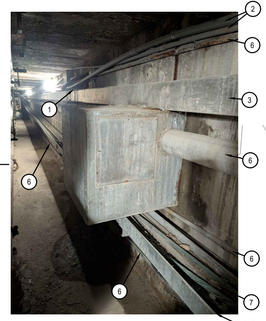
VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO.
208106-088

SHEET NO.
ED110A



1 EXISTING PLAN
1" = 10'-0"



TUNNEL TO GRAVELY HALL

GENERAL NOTES:

1. COMMUNICATIONS AND POWER CABLE TRAY LAYOUT IS DIAGRAMMATIC AND DOES NOT SHOW ALL BENDS ELBOWS, MOUNTING HARDWARE, COPPER CABLES, FIBER OPTIC CABLES, ETC. PICTURES AND LAYOUT ARE SHOWN TO SHOW EXISTING CONATIONS OF TUNNEL AND OVERALL WORK COPE. CONTRACTOR IS ADVISED TO VISIT SITE AND QUANTIFY REMOVAL OF CABLE TRAY, COPPER AND FIBER OPTIC CABLES PRIOR TO BID.
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KEYED NOTES:

(#) SYMBOL USED FOR NOTE CALLOUT.

1. DISCONNECT GROUND CABLE FROM EXISTING CABLE TRAY. SECURE GROUND CABLE TO TUNNEL WALL. REMOVE ALL COMMUNICATIONS AND CABLE TRAY FROM TUNNEL AFTER NEW COMMUNICATIONS LINES ARE INSTALLED AND FUNCTIONAL. REMOVE ALL CABLE TRAY FROM TUNNEL AFTER IDAHO POWER REMOVES PRIMARY CONDUCTORS.
2. TUNNEL LIGHTING BRANCH CIRCUIT CONDUIT AND NLIGHT CONTROL CABLE CONDUITS TO REMAIN.
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6. RECEPTACLE BRANCH CIRCUIT TO REMAIN.THROUGHOUT TO ENTIRE TUNNEL.
7. IDAHO POWER PRIMARY POWER CABLE REMOVED BY IDAHO POWER.
8. ABANDONED SPRINKLER CONTROL CABLE AND CONDUIT TO BE REMOVED BACK TO SOURCE.
9. 3000 AMP BUSSWAY TO STUDENT UNION SWITCHBOARD MDP1 T OBE REMOVED AFTER NEW SERVICE ENTRANCE DISCONNECT SWITCH AND NEW BUSSWAY HAS BEEN INSTALLED. SEE DRAWING E208.
10. BUSSWAY TAP UNDER TRANSFORMER. TO BE REMOVED AFTER NEW SERVICE ENTRANCE DISCONNECT SWITCH AND NEW BUSSWAY HAS BEEN INSTALLED. SEE DRAWING E208.

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DPW PROJECT #24246
ISU: UTILITY TUNNEL
PHASE 3

IDAHO STATE UNIVERSITY

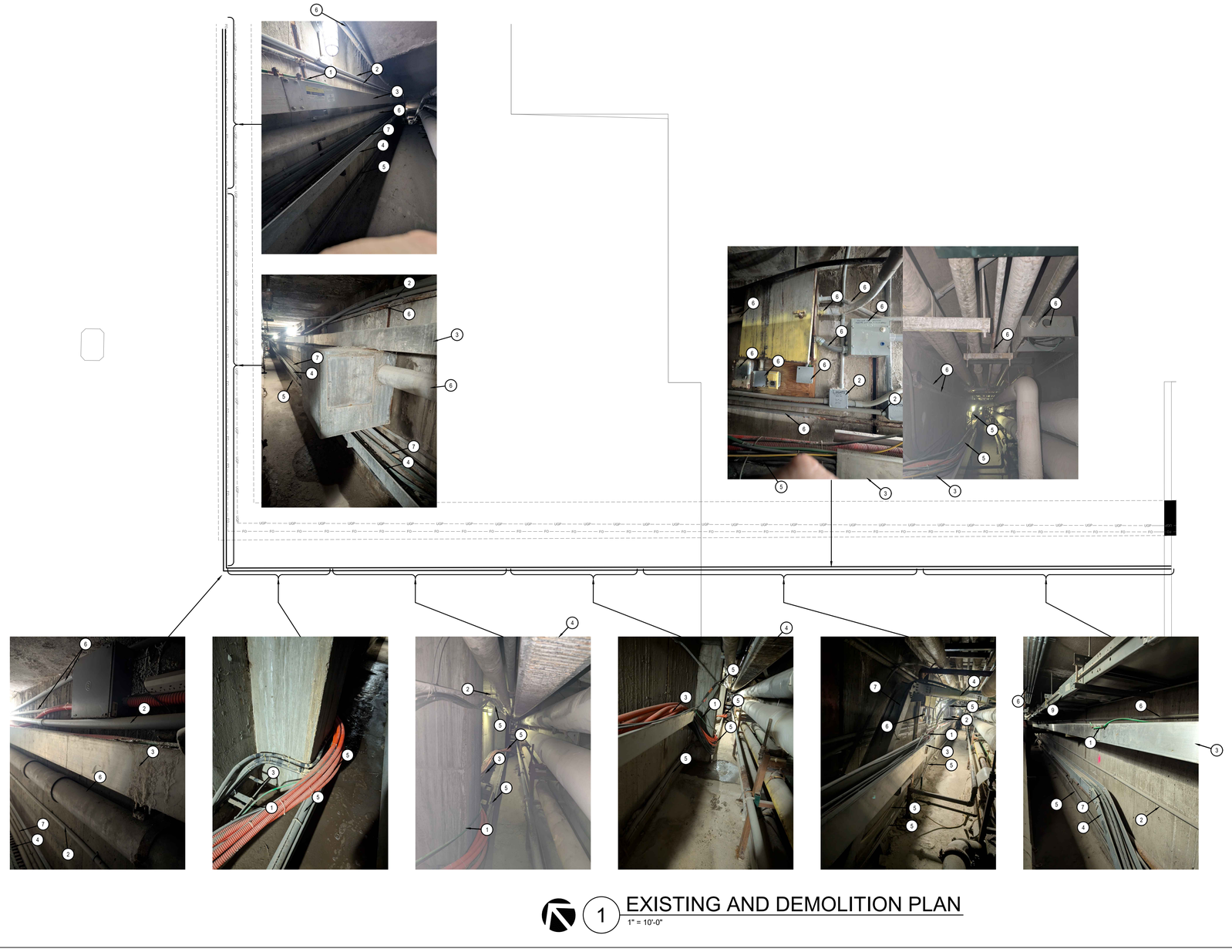
DEMOLITION PLAN

DRAWN: DBH | CHECK: MNB

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO.
208106-088

SHEET NO.
ED111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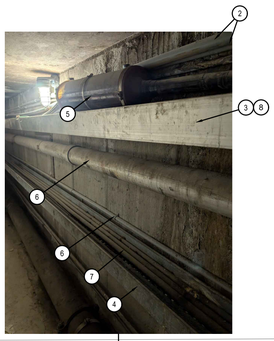

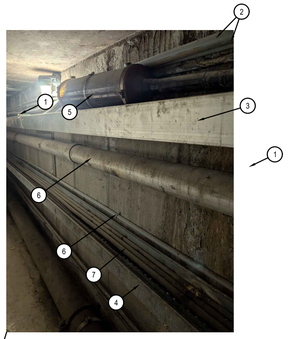

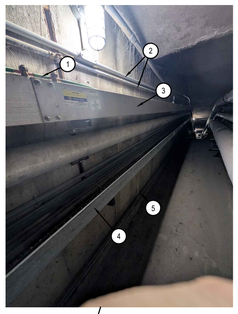

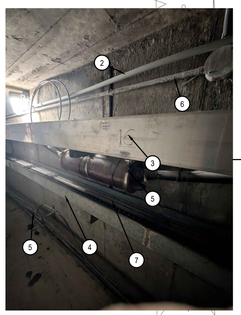

KEYED NOTES:

(#) SYMBOL USED FOR NOTE CALLOUT.

1. DISCONNECT GROUND CABLE FROM EXISTING CABLE TRAY. SECURE GROUND CABLE TO TUNNEL WALL. REMOVE ALL COMMUNICATIONS AND CABLE TRAY FROM TUNNEL AFTER NEW COMMUNICATIONS LINES ARE INSTALLED AND FUNCTIONAL. REMOVE ALL CABLE TRAY FROM TUNNEL AFTER IDAHO POWER REMOVES PRIMARY CONDUCTORS.
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GENERAL NOTES:

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DPW PROJECT #24246
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PHASE 3

IDAHO STATE UNIVERSITY

DEMOLITION PLAN

1 EXISTING PLAN
1" = 10'-0"

DRAWN: DBH | CHECK: MNB

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO.
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SHEET NO.
ED112