

SPOKANE TRANSIT AUTHORITY
ROUTE 9 BEB ON-ROUTE CHARGING
LIBERTY LAKE PARK & RIDE

PROJECT #2026-11230

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Vicinity Map:



SCALE: 1" = 500'

PERMIT SET



ROUTE 9 BEB
ON-ROUTE CHARGING
LIBERTY LAKE PARK & RIDE
22501 E Mission Ave, Liberty Lake, WA 99019
Spokane Transit Authority
1230 W. Boone Avenue
Spokane, Washington 99201

REV	DATE	DESCRIPTION

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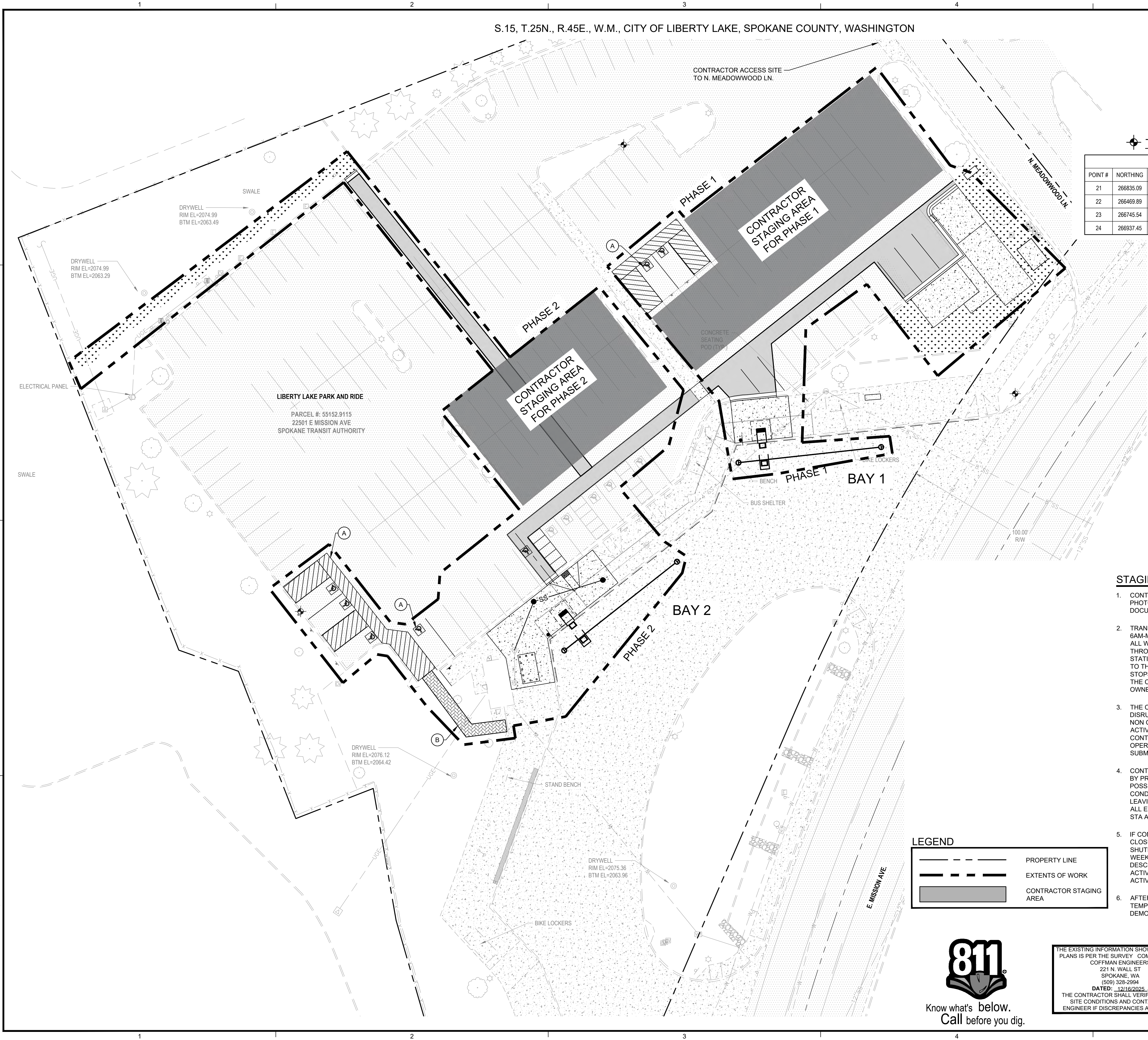
SHEET TITLE:

COVER SHEET

SHEET NO:

G-001

File: P:\Spokane\25\cbs\3777 STA TO 9 Route 9 En-Route BEB Changing\00 DWG\SG\G3777_1\WORK-ZONE-LL.dwg TAB: CONSTRUCTION STAGING AND PHASING PLAN
Plotted: 5/28/25 at 2:30pm By: cassandra.patis



TBM INFORMATION						
POINT #	NORTHING	EASTING	GRID NORTHING	GRID EASTING	ELEVATION	DESCRIPTION
21	266835.09	2559424.24	266835.09	2559424.24	2080.45	FND 5RBC
22	266469.89	2559269.25	266469.94	2559269.27	2076.85	SET X
23	266745.54	2559130.46	266745.55	2559130.50	2078.66	SET X
24	266937.45	2559263.28	266937.44	2559263.30	2080.38	SET X

MONUMENT PRESERVATION NOTE

DISTURBING EXISTING SURVEY MONUMENTS (PROPERTY CORNERS OR KNOWN RECORDED MONUMENTS) IS A GROSS MISDEMEANOR PER RCW 58.04.015. CONTRACTOR SHALL PROTECT ALL EXISTING PROPERTY CORNERS. IF ANY MONUMENTS ARE IN AREAS THAT WILL BE DISTURBED, THE CONTRACTOR SHALL RETAIN A PROFESSIONAL LAND SURVEYOR TO FOLLOW WAC 332-120. ANY DAMAGE CAUSED BY CONSTRUCTION ACTIVITIES SHALL BE REMEDIATED AT THE CONTRACTOR'S EXPENSE.

BENCH MARK NOTE

CONTRACTOR SHALL PROTECT ALL EXISTING PROPERTY CORNERS AND BENCH MARKS. ANY DAMAGE CAUSED BY CONSTRUCTION ACTIVITIES SHALL BE REMEDIATED AT THE CONTRACTOR'S EXPENSE.

- KEY NOTES**
- (A) INSTALL ADA STRIPING FOR TEMPORARY STALLS PER DETAIL 8, SHEET C-501.
 - (B) INSTALL PRE-FABRICATED, CONTRACTOR-DESIGNED TEMPORARY ADA ACCESS RAMP PATHWAY WITH HAND RAILS.

- STAGING NOTES**
- CONTRACTOR SHALL DOCUMENT EXISTING SITE CONDITIONS WITH PHOTOS AND VIDEO BEFORE ANY WORK BEGINS AND DELIVER THE DOCUMENTATION TO STA.
 - TRANSIT OPERATIONAL HOURS ARE 4AM-MIDNIGHT WEEKDAYS AND 6AM-MIDNIGHT, WEEKENDS. CONTRACTOR IS REQUIRED TO PHASE ALL WORK TO MAINTAIN TRANSIT CENTER OPERATIONS THROUGHOUT CONSTRUCTION. THIS INCLUDES MAINTAINING STATION ACCESS FOR UNAFFECTED BUS STOPS, PUBLIC ACCESS TO THE PARKING LOT, ADA-COMPLIANT ROUTES TO ALL ACTIVE STOPS, AND PROVIDING TEMPORARY WAYFINDING FOR DETOURS. THE CONTRACTOR SHALL SUBMIT A PHASING/STAGING PLAN FOR OWNER APPROVAL BEFORE CONSTRUCTION.
 - THE CONTRACTOR SHALL PERFORM ANY WORK THAT WOULD DISRUPT OPERATIONS OR REQUIRE A FULL SHUTDOWN DURING NON OPERATIONAL HOURS, OR SCHEDULE MAJOR CONSTRUCTION ACTIVITIES FOR WEEKENDS WHEN TRANSIT USAGE IS LOWER. IF CONTRACTOR DETERMINES A SHUTDOWN IS REQUIRED DURING OPERATIONAL HOURS A SHUTDOWN REQUEST MUST BE SUBMITTED TO STA A MINIMUM OF 3 WEEKS IN ADVANCE.
 - CONTRACTOR SHALL MINIMIZE ELECTRICAL AND UTILITY OUTAGES BY PROPER SEQUENCING AND BY COMPLETING ALL WORK POSSIBLE PRIOR TO SHUTDOWN. ELECTRICAL EQUIPMENT, CONDUITS, ENCLOSURES, AND WIRING SHOULD BE COMPLETE LEAVING ONLY TERMINATIONS TO BE MADE DURING SHUTDOWNS. ALL ELECTRICAL AND UTILITY OUTAGES SHALL BE SUBMITTED TO STA AS A SHUTDOWN REQUEST 3 WEEKS IN ADVANCE.
 - IF CONTRACTOR DETERMINES A PARTIAL OR FULL BUS LANE CLOSURE IS REQUIRED DURING OPERATIONAL HOURS A SHUTDOWN REQUEST MUST BE SUBMITTED TO STA A MINIMUM OF 3 WEEKS IN ADVANCE. SHUTDOWN REQUESTS SHALL INCLUDE DESCRIPTION OF IMPACTED OPERATIONS, LIST OF SHUTDOWN ACTIVITIES TO BE COMPLETED, TIME ESTIMATES FOR LISTED ACTIVITIES.
 - AFTER THE EXISTING ADA PARKING IS REINSTATED, REMOVE ALL TEMPORARY ADA PARKING STRIPING. REFERENCE C-100 DEMOLITION PLAN AND C-300 SITE AND UTILITY PLAN.

LEGEND	
	PROPERTY LINE
	EXTENTS OF WORK
	CONTRACTOR STAGING AREA



THE EXISTING INFORMATION SHOWN ON THESE PLANS IS PER THE SURVEY COMPLETED BY: COFFMAN ENGINEERS
221 N. WALL ST
SPOKANE, WA
(509) 328-2994
DATED: 12/16/2025
THE CONTRACTOR SHALL VERIFY EXISTING SITE CONDITIONS AND CONTACT THE ENGINEER IF DISCREPANCIES ARE NOTED.

UTILITY STATEMENT

LOCATION OF EXISTING UNDERGROUND UTILITIES HAVE BEEN TAKEN FROM DRAWINGS AND FIELD LOCATES SUPPLIED BY THE APPROPRIATE UTILITY COMPANIES. UTILITY LOCATIONS SHOWN ON THIS DRAWING ARE APPROXIMATE ONLY. PRIOR TO BEGINNING ANY CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF EACH UTILITY.

PERMIT SET

COFFMAN ENGINEERS
221 N. Wall Street
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ph 509.328.2994
www.coffman.com



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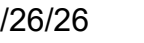
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PROJ. NO. 2026-11230
DRAWN CBP
CHECKED CJB
DATE 05/27/2026

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SHEET TITLE:
**CONSTRUCTION
STAGING AND
PHASING PLAN**

SHEET NO:
G-100



PROJ. NO.	2026-11230
DRAWN	SLP
CHECKED	MBV
DATE	05/27/2026

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SHEET TITLE:

GENERAL ARRANGMENT DETAILS

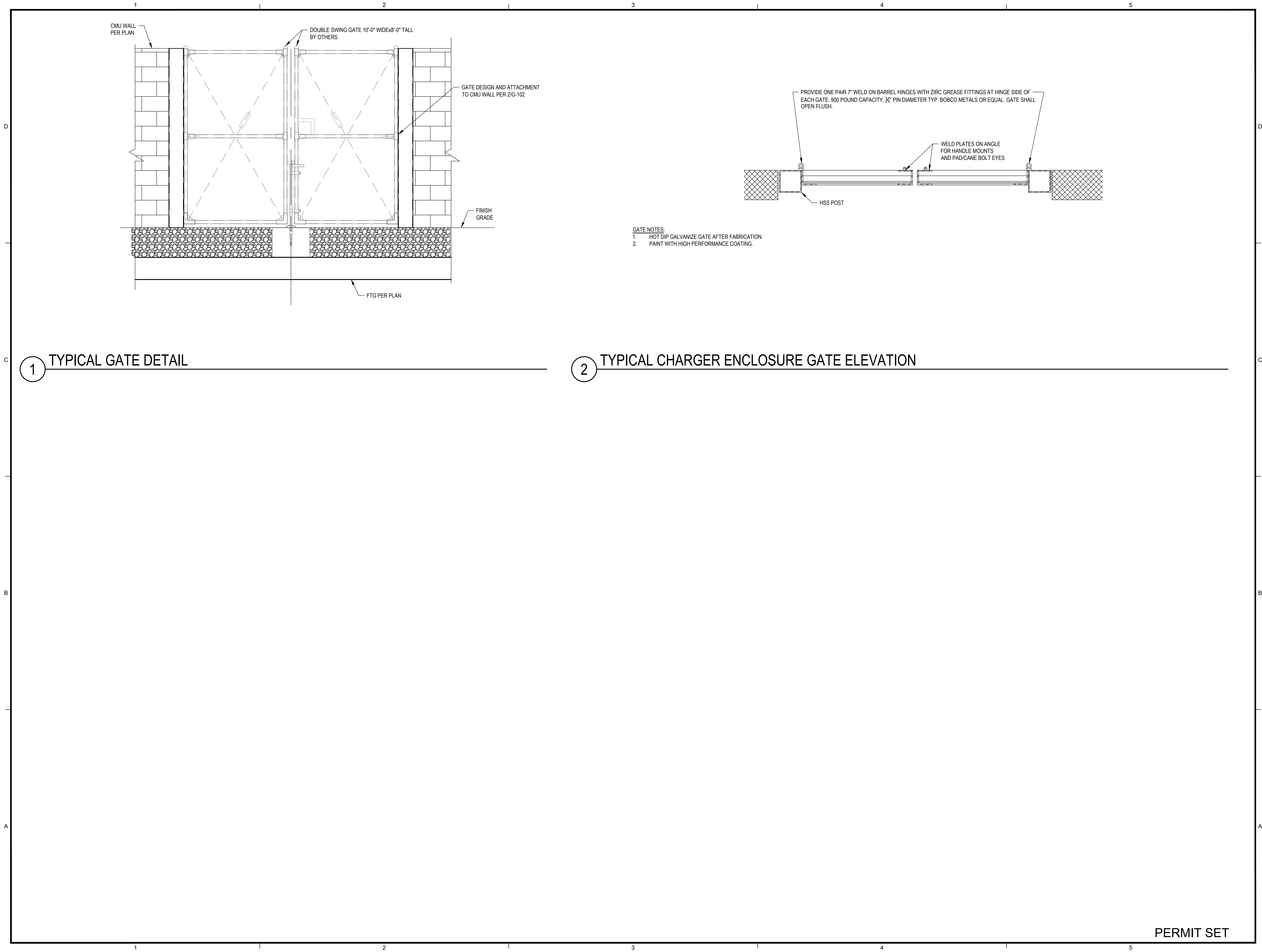
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G-101

1. PANTOGRAPH CHARGE POLE DIMENSIONS TO SAWTOOTH AND TO CURB SHOWN FOR CHARGE POLE PLACEMENT. CONTRACTOR TO VERIFY ALL DIMENSIONS WITH ABB SPECIFICATIONS AND STA. DIMENSIONS MUST BE VERIFIED WITH ELECTRIC BUS PROVIDED BY STA PRIOR TO FINAL INSTALLATION OF PANTOGRAPH AND SAW CUTTING OF WHEEL STUB DIVOTS.
2. ELECTRICAL CONDUITS TO STUB UP THROUGH FOOTING. REFER TO STRUCTURAL FOOTING DETAILS FOR ADDITIONAL REQUIREMENTS. COORDINATE FINAL CONDUIT STUB UP LOCATIONS WITH MANUFACTURER SHOP DRAWINGS PRIOR TO INSTALL.



PERMIT SET



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REV	DATE	DESCRIPTION

PROJ. NO. 2026-11230

DRAWN CEP

CHECKED JNM

DATE 05/27/2026

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SHEET TITLE:

GATE DETAILS

221 N. Wall Street
Suite 500
Spokane, WA 99201

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PROJ. NO. 2026-11230

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CHECKED CJE

DATE 05/27/2026

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SHEET TITLE:

GENERAL NOTES

SHEET NO:

C-001

PERMIT SET

GENERAL NOTES

1. WORK AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS AND STANDARDS OF THE AUTHORITIES HAVING JURISDICTION. IF STANDARDS ARE NOT PROVIDED BY THE AUTHORITIES HAVING JURISDICTION, WORK AND MATERIALS SHALL COMPLY WITH THE MOST CURRENT EDITION OF THE STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION AS JOINTLY PROMULGATED BY THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION (WSDOT) AND THE WASHINGTON STATE CHAPTER OF THE AMERICAN PUBLIC WORKS ASSOCIATION.
2. THE CONTRACTOR SHALL CALL THE UNDERGROUND SERVICE ALERT ONE-CALL NUMBER 1-800-424-5555 TWO BUSINESS DAYS PRIOR TO EXCAVATION. PRIVATE LOCATES SHALL BE PROVIDED FOR THE ENTIRE PROJECT AREA, INCLUDING INSIDE AND OUTSIDE OF THE BUILDING.
3. INFORMATION ON EXISTING CONDITIONS SHOWN ON THESE PLANS WAS OBTAINED FROM A SURVEY PERFORMED BY COFFMAN ENGINEERS. THE CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND REQUIRED ELEVATIONS AT THE SUBJECT SITE. VERIFY THE LOCATION AND SIZE OF EXISTING UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION ACTIVITIES, INCLUDING UNDERGROUND AND OVERHEAD UTILITIES, UTILITY STRUCTURES, POINTS OF CONNECTION, AND UTILITY CROSSLINGS. NOTIFY THE ENGINEER OF ANY DISCREPANCIES OR EXCEPTIONS ENCOUNTERED PRIOR TO PROCEEDING. ANY COSTS INCURRED AS A RESULT OF THE CONTRACTOR'S FAILURE TO VERIFY EXISTING CONDITIONS PRIOR TO BEGINNING CONSTRUCTION SHALL BE BORNE BY THE CONTRACTOR.
4. THE CONTRACTOR SHALL HAVE A COMPLETE SET OF CITY OF LIBERTY LAKE STAMPED AND PERMITTED PLANS ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
5. THE DRAWINGS INDICATE LOCATIONS, DIMENSIONS, REFERENCES, AND TYPICAL DETAILS OF CONSTRUCTION. THE DRAWINGS DO NOT INDICATE EVERY CONDITION. WORK NOT FULLY DETAILED SHALL BE OF CONSTRUCTION SIMILAR TO PARTS THAT ARE FULLY DETAILED.
6. THE CONTRACTOR SHALL OBTAIN THE APPROPRIATE APPROVALS AND PERMITS FROM THE AUTHORITIES HAVING JURISDICTION PRIOR TO PROCEEDING WITH CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL COORDINATE WITH THE AUTHORITIES HAVING JURISDICTION TO CONFIRM INSPECTION, TESTING, AND CERTIFICATION REQUIREMENTS.
7. CONSTRUCTION SHALL COMPLY WITH THE 2010 AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG), ADA STANDARDS FOR PUBLIC RIGHT-OF-WAY (FROWAG), WSDOT ADA, DOT STANDARDS FOR TRANSPORTATION FACILITIES.
8. EXISTING PROPERTY CORNERS AND SURVEY MONUMENTS SHALL BE PROTECTED DURING CONSTRUCTION. ANY DAMAGED OR OBLITERATED CORNERS OR MONUMENTS SHALL BE RE-ESTABLISHED BY A PROFESSIONAL SURVEYOR AT THE CONTRACTOR'S EXPENSE.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TRAFFIC CONTROL IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) STANDARDS. COORDINATE REQUIREMENTS WITH THE AUTHORITIES HAVING JURISDICTION.
10. SAFETY STANDARDS AND REQUIREMENTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND COMPLIED WITH AS SET FORTH BY OSHA.
11. THE CONTRACTOR SHALL HAVE THE APPROPRIATE LICENSES TO PERFORM THE SPECIFIED WORK IN CONFORMANCE WITH THE AUTHORITIES HAVING JURISDICTION.
12. MAINTAIN EXISTING UTILITIES AND PROTECT THEM AGAINST DAMAGE DURING CONSTRUCTION. DO NOT INTERRUPT EXISTING UTILITIES SERVING ADJACENT OCCUPIED OR OPERATING FACILITIES UNLESS AUTHORIZED IN WRITING BY OWNER AND AUTHORITIES HAVING JURISDICTION. PROVIDE TEMPORARY SERVICES DURING INTERRUPTIONS TO EXISTING UTILITIES, AS ACCEPTABLE TO OWNER AND AUTHORITIES HAVING JURISDICTION.
13. AREAS DISTURBED OR DAMAGED BY CONSTRUCTION ACTIVITIES SHALL BE CONSTRUCTED OR RESTORED TO ORIGINAL CONDITIONS OR BETTER, TO THE SATISFACTION OF THE OWNER, AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR IS RESPONSIBLE FOR DOCUMENTING CONDITIONS PRIOR TO CONSTRUCTION ACTIVITIES AND ANY DAMAGE THAT MAY OCCUR.
14. RECORD DRAWINGS NOTING AS-CONSTRUCTED CONDITIONS SHALL BE PROVIDED BY THE CONTRACTOR AT THE END OF CONSTRUCTION.

DEMOLITION NOTES

- CONTRACTOR SHALL REVIEW PROJECT LIMITS FOR QUANTITY AND TYPE OF STRUCTURES, GROUND COVER AND DEBRIS AT THE TIME OF BIDDING AND SHALL INCORPORATE REMOVALS/DISPOSAL IN THEIR BID.
- CONTRACTOR SHALL REMOVE ALL WASTE MATERIAL AND DEBRIS FROM SITE AND LEGALLY DISPOSE OF IN SUITABLE LOCATIONS OFFSITE.
- CONTRACTOR SHALL OBTAIN ALL CONSTRUCTION APPROVALS/PERMITS FROM GOVERNING AGENCIES PRIOR TO ANY CONSTRUCTION ACTIVITY.
- THE CONTRACTOR SHALL TAKE EFFECTIVE ACTION TO PREVENT THE FORMATION OF ANY AIRBORNE DUST NUISANCE AND SHALL BE RESPONSIBLE FOR ANY DAMAGE RESULTING FROM FAILURE TO FOLLOW GOVERNING AGENCIES GUIDELINES.
- CONTRACTOR IS RESPONSIBLE TO REMOVE ANY AND ALL ITEMS NOT OTHERWISE LISTED HEREIN THAT CONFLICT WITH THE CONSTRUCTION OF THE PROJECT. CONTRACTOR SHALL CONTACT ENGINEER IMMEDIATELY TO DETERMINE ANY ITEMS NOT SHOWN ON THE PLANS THAT MUST BE REMOVED. FAILURE TO DO SO DOES NOT RELIEVE CONTRACTOR OF COST RESPONSIBILITY FOR REMOVING ITEMS REQUIRED.
- IF MATERIALS SUSPECTED OF CONTAINING HAZARDOUS MATERIALS ARE ENCOUNTERED THAT HAVE NOT BEEN PREVIOUSLY IDENTIFIED, DO NOT DISTURB; IMMEDIATELY NOTIFY THE OWNER AND ENGINEER.
- REMOVE OBSTRUCTIONS, TREES, SHRUBS, GRASS AND OTHER VEGETATION TO PERMIT INSTALLATION OF NEW CONSTRUCTION. REMOVAL OF TREES AND SHRUBS SHALL INCLUDE DIGGING OUT STUMPS AND OBSTRUCTIONS AND GRUBBING ROOTS. REMOVAL OF TREES IN AREAS ADJACENT TO TREES THAT ARE TO REMAIN AND BE PROTECTED SHALL BE LIMITED TO TREE REMOVAL AND GRINDING OF STUMP TO 3" BELOW FINISHED GRADE.
- ALL CONCRETE AND ASPHALT SURFACES INDICATED TO BE REMOVED, SHALL BE SAWCUT.
- LOCATIONS OF UNDERGROUND UTILITIES SHOWN ARE APPROXIMATE AND MAY NOT HAVE BEEN VERIFIED IN THE FIELD. NO GUARANTEE IS MADE AS TO THE ACCURACY OR COMPLETENESS OF THE INFORMATION SHOWN. THE CONTRACTOR IS RESPONSIBLE TO DETERMINE THE EXISTENCE AND LOCATION OF UTILITIES SHOWN ON THESE PLANS BY COORDINATING WITH UTILITY COMPANIES AND LOCATING SERVICES IN ADVANCE OF DEMOLITION CONSTRUCTION. ANY COSTS INCURRED AS A RESULT OF CONTRACTOR'S FAILURE TO VERIFY LOCATIONS OF EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION SHALL BE BORNE BY THE CONTRACTOR.
- MAINTAIN EXISTING UTILITIES INDICATED TO REMAIN IN SERVICE AND PROTECT THEM AGAINST DAMAGE DURING DEMOLITION OPERATIONS. DO NOT INTERRUPT EXISTING UTILITIES SERVING ADJACENT OCCUPIED OR OPERATING FACILITIES UNLESS AUTHORIZED IN WRITING BY OWNER AND GOVERNING AGENCIES. PROVIDE TEMPORARY SERVICES DURING INTERRUPTIONS TO EXISTING UTILITIES, AS ACCEPTABLE TO OWNER AND PURVEYOR.
- ALL EXISTING IMPROVEMENTS TO REMAIN (INCLUDING EXISTING IRRIGATION SYSTEM) THAT BECOME DAMAGED DURING CONSTRUCTION SHALL BE COMPLETELY RESTORED TO THE SATISFACTION OF THE OWNER, AT THE CONTRACTOR'S SOLE EXPENSE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DOCUMENT PRIOR DAMAGES.
- CONTRACTOR SHALL PROTECT ALL EXISTING PROPERTY CORNERS & BENCH MARKS. ANY DAMAGE CAUSED BY CONSTRUCTION ACTIVITIES SHALL BE REMEDIED TO THE OWNER'S SATISFACTION AT THE CONTRACTOR'S EXPENSE.

EROSION & SEDIMENT CONTROL NOTES

1. THE FOLLOWING CONSTRUCTION SEQUENCE IS RECOMMENDED AS A GUIDELINE IN ORDER TO BEST MINIMIZE THE POTENTIAL FOR EROSION AND SEDIMENTATION CONTROL PROBLEMS:
 - a) CLEAR AND GRUB SUFFICIENTLY FOR INSTALLATION OF TEMPORARY EROSION AND SEDIMENT CONTROL (ESC) BEST MANAGEMENT PRACTICE MEASURES (BMPs);
 - b) INSTALL TEMPORARY ESC BMPs, CONSTRUCTING SEDIMENT TRAPPING BMPs AS ONE OF THE FIRST STEPS PRIOR TO GRADING;
 - c) CLEAR, GRUB AND ROUGH GRADE FOR ROADS, TEMPORARY ACCESS POINTS AND UTILITY LOCATIONS;
 - d) STABILIZE ROADWAY APPROACHES AND TEMPORARY ACCESS POINTS WITH THE APPROPRIATE CONSTRUCTION ENTRY BMP;
 - e) CLEAR, GRUB AND GRADE SUBJECT SITE;
 - f) TEMPORARILY STABILIZE, THROUGH RE-VEGETATION OR OTHER APPROPRIATE BMPs, SUBJECT SITE IN SITUATIONS WHERE SUBSTANTIAL CUT OR FILL SLOPES ARE A RESULT OF THE SITE GRADING;
 - g) CONSTRUCT ROADS, BUILDINGS, PERMANENT STORMWATER FACILITIES (I.E. INLETS, PONDS, UIC FACILITIES, ETC.);
 - h) PROTECT ALL PERMANENT STORMWATER FACILITIES UTILIZING THE APPROPRIATE BMPs;
 - i) INSTALL PERMANENT ESC CONTROLS, WHEN APPLICABLE; AND,
 - j) REMOVE TEMPORARY ESC CONTROLS WHEN:
 - i. PERMANENT ESC CONTROLS, WHEN APPLICABLE, HAVE BEEN COMPLETELY INSTALLED;
 - ii. ALL LAND-DISTURBING ACTIVITIES THAT HAVE THE POTENTIAL TO CAUSE EROSION OR SEDIMENTATION PROBLEMS HAVE CEASED; AND,
 - iii. VEGETATION HAS BEEN ESTABLISHED IN THE AREAS NOTED AS REQUIRING VEGETATION ON THE ACCEPTED ESC PLAN ON FILE WITH THE LOCAL JURISDICTION.
2. INSPECT ALL ROADWAYS, AT THE END OF EACH DAY, ADJACENT TO THE CONSTRUCTION ACCESS ROUTE. IF IT IS EVIDENT THAT SEDIMENT HAS BEEN TRACKED OFF SITE AND/OR BEYOND THE ROADWAY APPROACH, CLEANING IS REQUIRED.
3. IF SEDIMENT REMOVAL IS NECESSARY PRIOR TO STREET WASHING, IT SHALL BE REMOVED BY SHOVELING OR PICKUP SWEEPING AND TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA.
4. IF STREET WASHING IS REQUIRED TO CLEAN SEDIMENT TRACKED OFF SITE, ONCE SEDIMENT HAS BEEN REMOVED, STREET WASH WASTEWATER SHALL BE CONTROLLED BY PUMPING BACK ON-SITE OR OTHERWISE PREVENTED FROM DISCHARGING INTO SYSTEMS TRIBUTARY TO WATERS OF THE STATE.
5. RESTORE CONSTRUCTION ACCESS ROUTE EQUAL TO OR BETTER THAN THE PRE-CONSTRUCTION CONDITION.
6. RETAIN THE DUFF LAYER, NATIVE TOPSOIL, AND NATURAL VEGETATION IN AN UNDISTURBED STATE TO THE MAXIMUM EXTENT PRACTICAL.
7. INSPECT SEDIMENT CONTROL BMPs WEEKLY AT A MINIMUM, DAILY DURING A STORM EVENT, AND AFTER ANY DISCHARGE FROM THE SITE (STORMWATER OR NON-STORMWATER). THE INSPECTION FREQUENCY MAY BE REDUCED TO ONCE A MONTH IF THE SITE IS STABILIZED AND INACTIVE.
8. CONTROL FUGITIVE DUST FROM CONSTRUCTION ACTIVITY IN ACCORDANCE WITH THE STATE AND/OR LOCAL AIR QUALITY CONTROL AUTHORITIES WITH JURISDICTION OVER THE PROJECT AREA. DO NOT USE WATER WHEN IT MAY DAMAGE ADJACENT CONSTRUCTION OR CREATE HAZARDOUS OR OBJECTIONABLE CONDITIONS, SUCH AS ICE, FLOODING, AND POLLUTION.
9. STABILIZE EXPOSED UNWORKED SOILS (INCLUDING STOCKPILES), WHETHER AT FINAL GRADE OR NOT, WITHIN 10 DAYS DURING THE REGIONAL DRY SEASON (JULY 1 THROUGH SEPTEMBER 30) AND WITHIN 5 DAYS DURING THE REGIONAL WET SEASON (OCTOBER 1 THROUGH JUNE 30). SOILS MUST BE STABILIZED AT THE END OF A SHIFT BEFORE A HOLIDAY WEEKEND IF NEEDED BASED ON THE WEATHER FORECAST. THIS TIME LIMIT MAY ONLY BE ADJUSTED BY A LOCAL JURISDICTION WITH A "QUALIFIED LOCAL PROGRAM," IF IT CAN BE DEMONSTRATED THAT THE RECENT PRECIPITATION JUSTIFIES A DIFFERENT STANDARD AND MEETS THE REQUIREMENTS SET FORTH IN THE CONSTRUCTION STORMWATER GENERAL PERMIT.
10. PROTECT INLETS, DRYWELLS, CATCH BASINS AND OTHER STORMWATER MANAGEMENT FACILITIES FROM SEDIMENT, WHETHER OR NOT FACILITIES ARE OPERABLE.
11. KEEP ROADS ADJACENT TO INLETS CLEAN.
12. INSPECT INLETS WEEKLY AT A MINIMUM AND DAILY DURING STORM EVENTS.
13. CONSTRUCT STORMWATER CONTROL FACILITIES (DETENTION/RETENTION STORAGE POND OR SWALES) BEFORE GRADING BEGINS. THESE FACILITIES SHALL BE OPERATIONAL BEFORE THE CONSTRUCTION OF IMPERVIOUS SITE IMPROVEMENTS.
14. STOCKPILE MATERIALS (SUCH AS TOPSOIL) ON SITE, KEEPING OFF OF ROADWAY AND SIDEWALKS.
15. COVER, CONTAIN AND PROTECT ALL CHEMICALS, LIQUID PRODUCTS, PETROLEUM PRODUCT, AND NON-INERT WASTES PRESENT ON SITE FROM VANDALISM (SEE CHAPTER 173-304 WAC FOR THE DEFINITION OF INERT WASTE), USE SECONDARY CONTAINMENT FOR ON-SITE FUELING TANKS.
16. CONDUCT MAINTENANCE AND REPAIR OF HEAVY EQUIPMENT AND VEHICLES INVOLVING OIL CHANGES, HYDRAULIC SYSTEM REPAIRS, SOLVENT AND DE-GRASING OPERATIONS, FUEL TANK DRAIN DOWN AND REMOVAL, AND OTHER ACTIVITIES THAT MAY RESULT IN DISCHARGE OR SPILLAGE OF POLLUTANTS TO THE GROUND OR INTO STORMWATER RUNOFF USING SPILL PREVENTION MEASURES, SUCH AS DRIP PANS. CLEAN ALL CONTAMINATED SURFACES IMMEDIATELY FOLLOWING ANY DISCHARGE OR SPILL INCIDENT. IF RAINING OVER EQUIPMENT OR VEHICLE, PERFORM EMERGENCY REPAIRS ON SITE USING TEMPORARY PLASTIC BENEATH THE VEHICLE.
17. CONDUCT APPLICATION OF AGRICULTURAL CHEMICALS, INCLUDING FERTILIZERS AND PESTICIDES, IN SUCH A MANNER, AND AT APPLICATION RATES, THAT INHIBITS THE LOSS OF CHEMICALS INTO STORMWATER RUNOFF FACILITIES. AMEND MANUFACTURER'S RECOMMENDED APPLICATION RATES AND PROCEDURES TO MEET THIS REQUIREMENT, IF NECESSARY.
18. INSPECT ON A REGULAR BASIS (AT A MINIMUM WEEKLY, AND DAILY DURING/AFTER A RUNOFF PRODUCING STORM EVENT) AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL BMPs TO ENSURE SUCCESSFUL PERFORMANCE OF THE BMPs. NOTE THAT INLET PROTECTION DEVICES SHALL BE CLEANED OR REMOVED AND REPLACED BEFORE SIX INCHES OF SEDIMENT CAN ACCUMULATE.
19. REMOVE TEMPORARY ESC BMPs WITHIN 30 DAYS AFTER THE TEMPORARY BMPs ARE NO LONGER NEEDED. PERMANENTLY STABILIZE AREAS THAT ARE DISTURBED DURING THE REMOVAL PROCESS.
20. PROVIDE TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES TO PREVENT SOIL EROSION AND DISCHARGE OF SOIL-BEARING WATER RUNOFF OR AIRBORNE DUST TO ADJACENT PROPERTIES, ACCORDING TO REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION. THE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS FOR STORM WATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITY, INCLUDING OBTAINING THE APPROPRIATE PERMITS AND APPROVALS.
21. EROSION CONTROL MEASURES IN ADDITION TO THOSE INDICATED AS PART OF THIS PLAN MAY BE REQUIRED DUE TO UNFORESEEN CONDITIONS. IF THE MEASURES DO NOT FUNCTION AS INTENDED, OR IF THE AUTHORITIES HAVING JURISDICTION DETERMINE INDICATED MEASURES ARE INADEQUATE.
22. FILTER FENCE SHALL BE USED TO AID IN CONTAINING ANY SEDIMENT ON THE SITE DURING CONSTRUCTION. STABILIZED CONSTRUCTION ENTRANCES SHALL BE USED AT POINTS OF INGRESS AND EGRESS FOR CONSTRUCTION VEHICLES. STORM DRAIN INLET PROTECTION SHALL BE USED ON ALL STORM DRAIN STRUCTURES, INCLUDING CATCH BASINS AND DRYWELLS. THE CONTRACTOR SHALL KEEP THE AREAS ADJACENT TO THE SITE INCLUDING ROADWAYS AND PARKING LOTS FREE FROM DEBRIS. REFER TO THE EROSION AND SEDIMENT CONTROL MEASURE DETAILS FOR ADDITIONAL INFORMATION.
23. PROVIDE A DESIGNATED, POSTED CONCRETE WASHOUT AREA. THE CONCRETE WASHOUT SHALL NOT BE ALLOWED TO DRAIN OFF THE SITE OR INTO ANY EXISTING OR FUTURE STORM DRAINAGE FACILITIES. HARDENED CONCRETE WASHOUT SHALL BE BROKEN UP AND REMOVED FROM THE SITE.
24. LITTER, CONSTRUCTION DEBRIS, AND CONSTRUCTION CHEMICALS THAT COULD BE EXPOSED TO STORM WATER MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE IN STORM WATER DISCHARGES.

25. APPLY A DRY-LAND SEED MIX TO ALL SOILS EXPOSED OR DISTURBED BY CONSTRUCTION ACTIVITIES. THE DISTURBED AREAS SHALL BE HYDROSEEDING USING A STANDARD HYDROSEED APPLICATION PER WSDOT STANDARD SPECIFICATIONS, INCLUDING WOOD FIBER MULCH, GUAR GUM TACKIFIER, AND SLOW RELEASE FERTILIZER. PRIOR TO APPLYING THE HYDROSEED, THE CONTRACTOR SHALL VERTICAL TRACK PERPENDICULAR TO THE CONTOURS TO SCARIFY THE SOIL ENOUGH TO PROVIDE PLACES FOR THE SEED TO STICK/ESTABLISH TO ALLOW FOR BETTER GERMINATION. APPLY SEEDING WITHIN FIVE (5) DAYS AFTER FINISHED GRADING IS COMPLETE. EROSION CONTROL BLANKETS MAY BE USED WHERE SEEDING IS NOT FEASIBLE.

EARTHWORK & GRADING NOTES

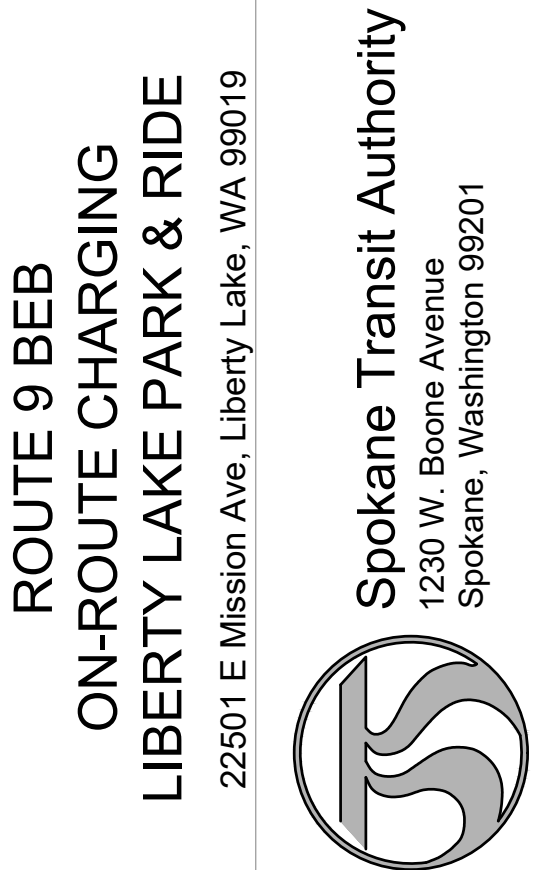
1. SITE PREPARATION, GRADING, EXCAVATION AND FILL REQUIREMENTS BELOW THE PROPOSED IMPROVEMENTS, EMBANKMENTS, AND UTILITY TRENCHING SHALL BE COMPLETED IN CONFORMANCE WITH WSDOT STANDARD SPECIFICATIONS.
2. EXAMINE EXPOSED SUBGRADES AND BASE SURFACES FOR COMPLIANCE WITH REQUIREMENTS FOR DIMENSIONAL, GRADING, AND ELEVATION TOLERANCES. PREVENT SURFACE WATER AND GROUNDWATER FROM ENTERING EXCAVATIONS, FROM PONDING ON PREPARED SUBGRADES AND BASE SURFACES, AND FROM FLOODING PROJECT SITE AND SURROUNDING AREA. PROTECT SUBGRADES AND BASES FROM SORTING, UNDERMINING, WASHOUT, DAMAGE BY RAIN OR WATER ACCUMULATION, AND AGAINST FREEZING TEMPERATURES AND FROST.
3. SPOT ELEVATIONS ARE FOR FINISH GRADE UNLESS OTHERWISE NOTED.
4. UNLESS ELEVATIONS AND/OR CONTOURS ARE OTHERWISE SHOWN, NEW FINISH GRADE SURFACES SHALL BE PLACED TO ALLOW FOR POSITIVE DRAINAGE TO RUNOFF COLLECTION DEVICES OR FACILITIES. MAINTAIN POSITIVE DRAINAGE AWAY FROM BUILDINGS. IF FIELD GRADE ADJUSTMENTS ARE REQUIRED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.
5. GROUNDWATER OR UNANTICIPATED SUBSURFACE CONDITIONS SHALL BE REPORTED TO THE ENGINEER FOR ASSESSMENT AND RECOMMENDATIONS.
6. COMPACTION EFFORTS AND MASS GRADING SHALL BE MONITORED AND TESTED BY AN EXPERIENCED SOILS TECHNICIAN, UNDER THE SUPERVISION OF A LICENSED GEOTECHNICAL ENGINEER REPRESENTING THE OWNER.

PAVING NOTES

1. DO NOT APPLY PAVEMENT MATERIALS IF SUBGRADE IS WET OR EXCESSIVELY DAMP, OR IF RAIN IS IMMINENT OR EXPECTED BEFORE TIME REQUIRED FOR ADEQUATE CURE. SURFACE AND AIR TEMPERATURES SHALL CONFORM TO REQUIREMENTS OF WSDOT STANDARD SPECIFICATIONS.
2. COMPLY WITH WSDOT STANDARD SPECIFICATION 5-05 AND ACI 301 REQUIREMENTS FOR MEASURING, MIXING, TRANSPORTING, AND PLACING CEMENT CONCRETE PAVEMENT.
3. APPLY PAVEMENT MARKING MATERIALS TO CLEAN, DRY PAVEMENT SURFACES ACCORDING TO WSDOT STANDARD SPECIFICATION 8-22. PAVEMENT MARKINGS SHALL COMPLY WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION.

CONSTRUCTION SCHEDULE

1. CONSTRUCTION SCHEDULING FOR ALL WORK ITEMS MUST BE COORDINATED WITH THE OWNER. THE FACILITY IS EXPECTED TO REMAIN FULLY OPERATIONAL THROUGHOUT EVERY PHASE OF CONSTRUCTION. THE CONTRACTOR MUST COORDINATE ANY REQUIRED INTERRUPTIONS TO FACILITY OPERATIONS WITH THE OWNER A MINIMUM OF THREE WEEKS PRIOR TO THE PLANNED WORK.



REV	DATE	DESCRIPTION

REV	DATE	DESCRIPTION
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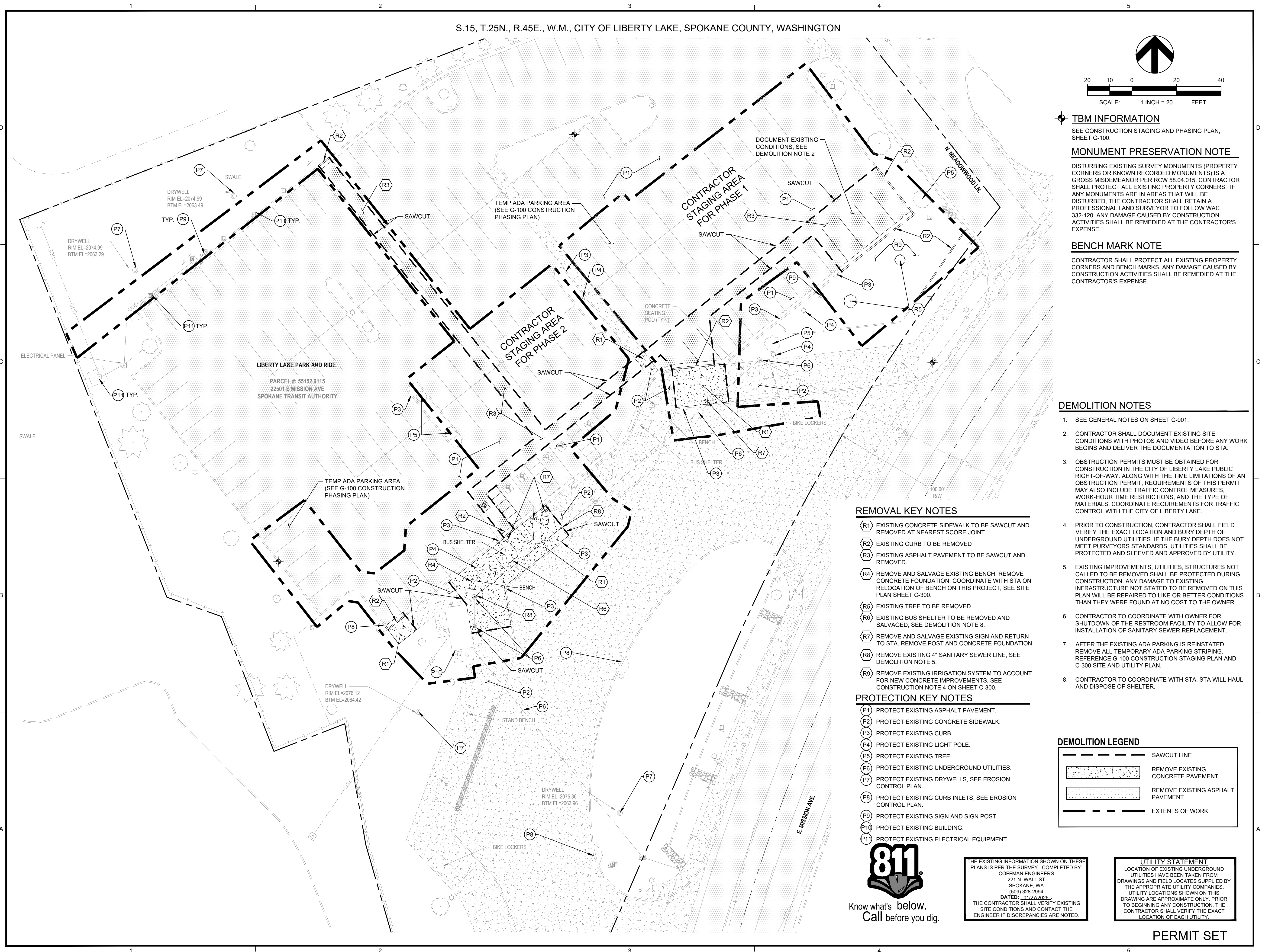
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SHEET TITLE:

CIVIL DEMOLITION PLAN

SHEET NO: _____

C-100



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Plotted: 5/26/26 at 2:31pm By: cassandra.potts



ROUTE 9 BEB
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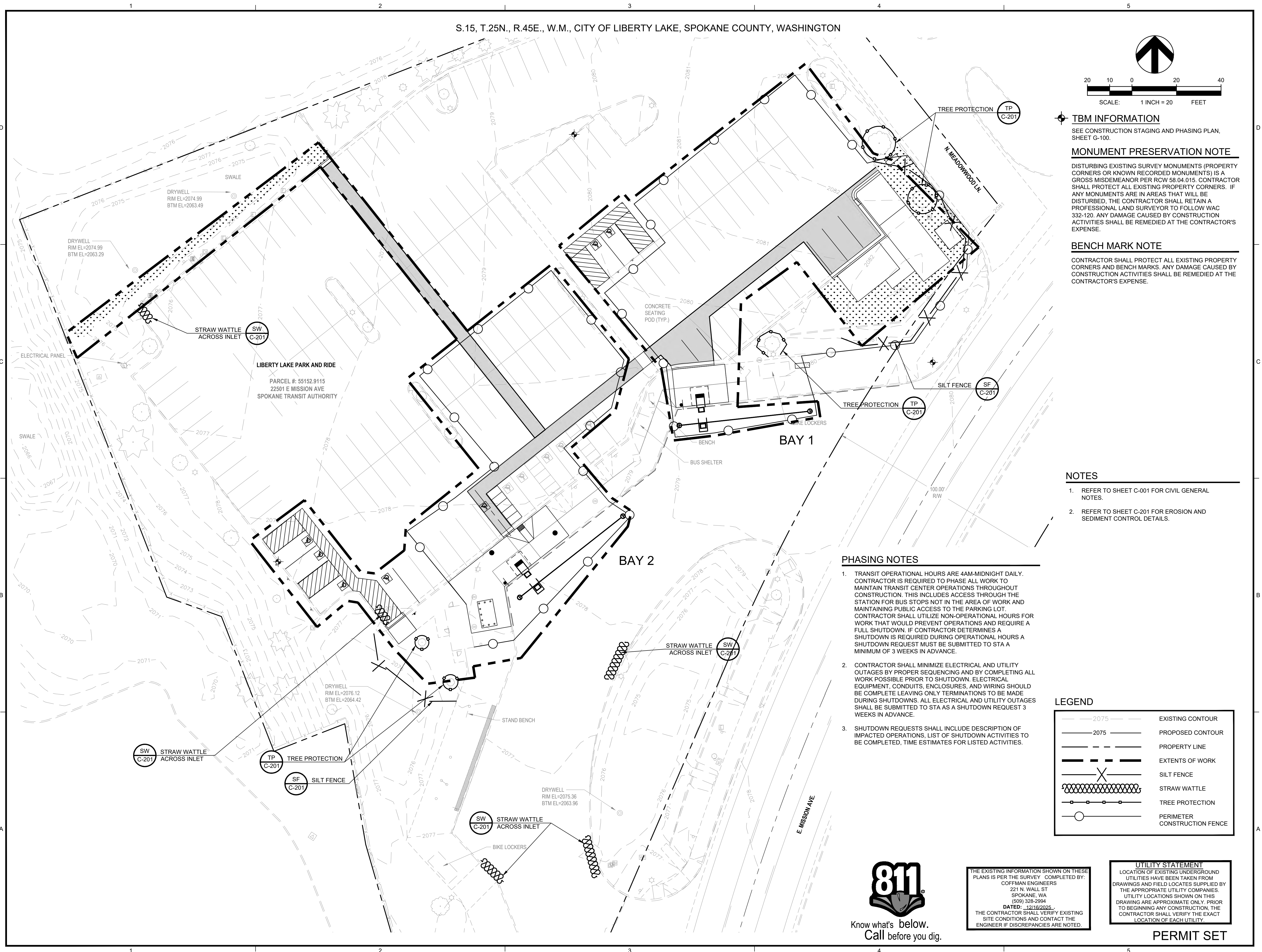
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SHEET TITLE:

EROSION AND SEDIMENT CONTROL PLAN

SHEET NO: _____

C-200



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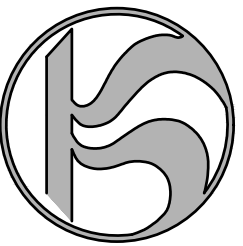
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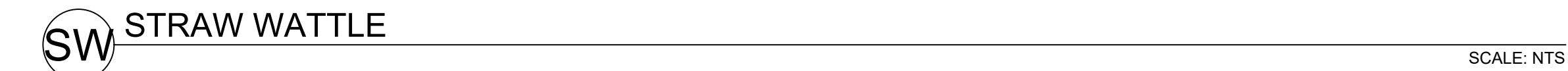
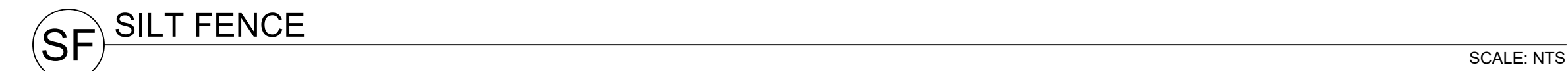
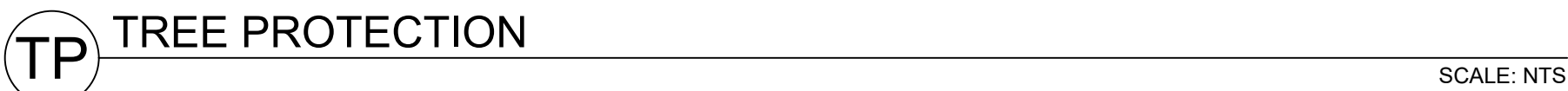
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SHEET TITLE:

EROSION AND SEDIMENT CONTROL DETAILS

SHEET NO:

C-201

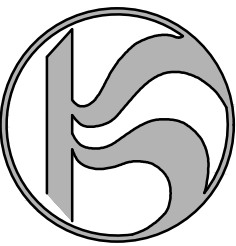




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DATE 05/27/2026

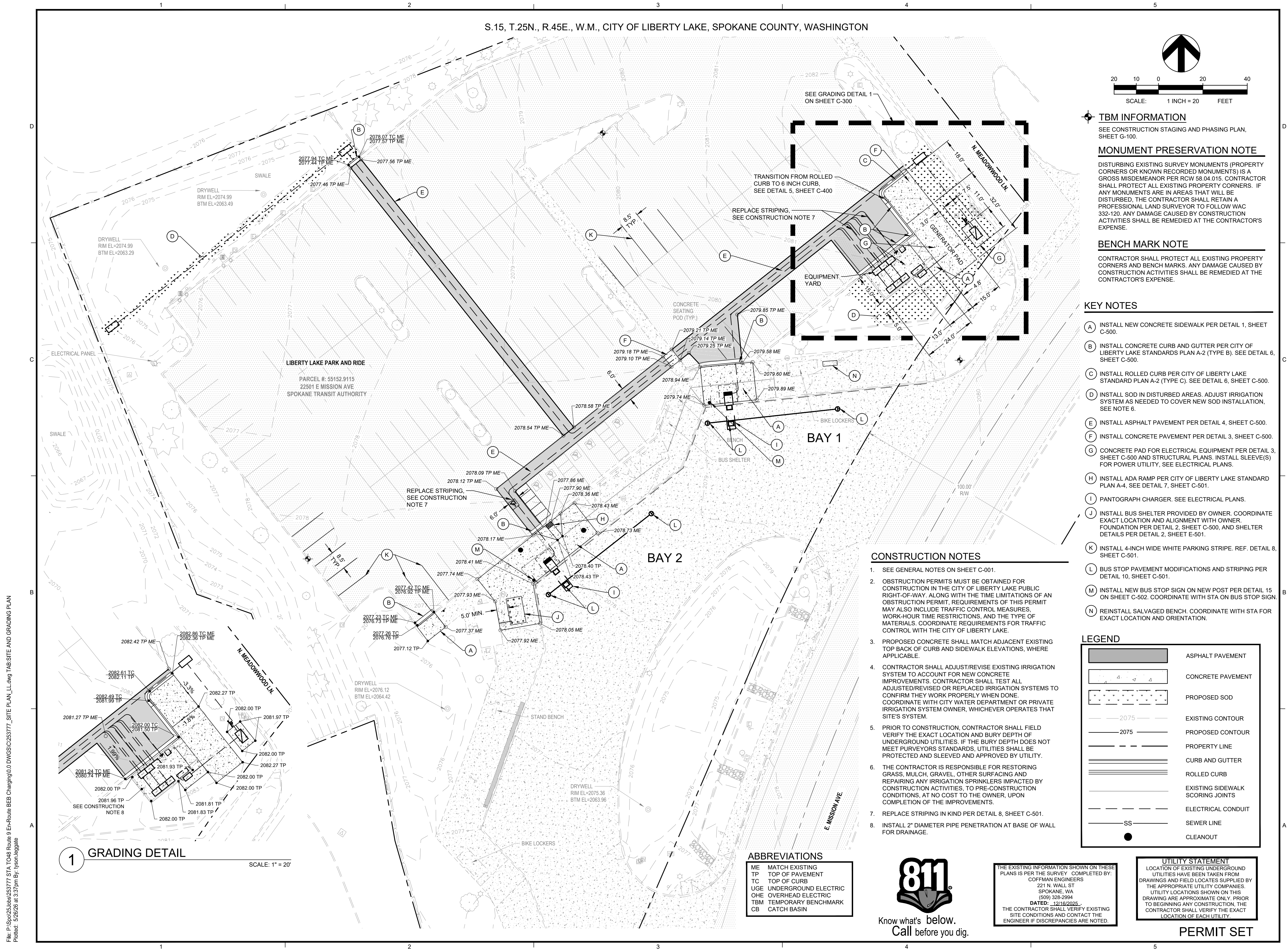
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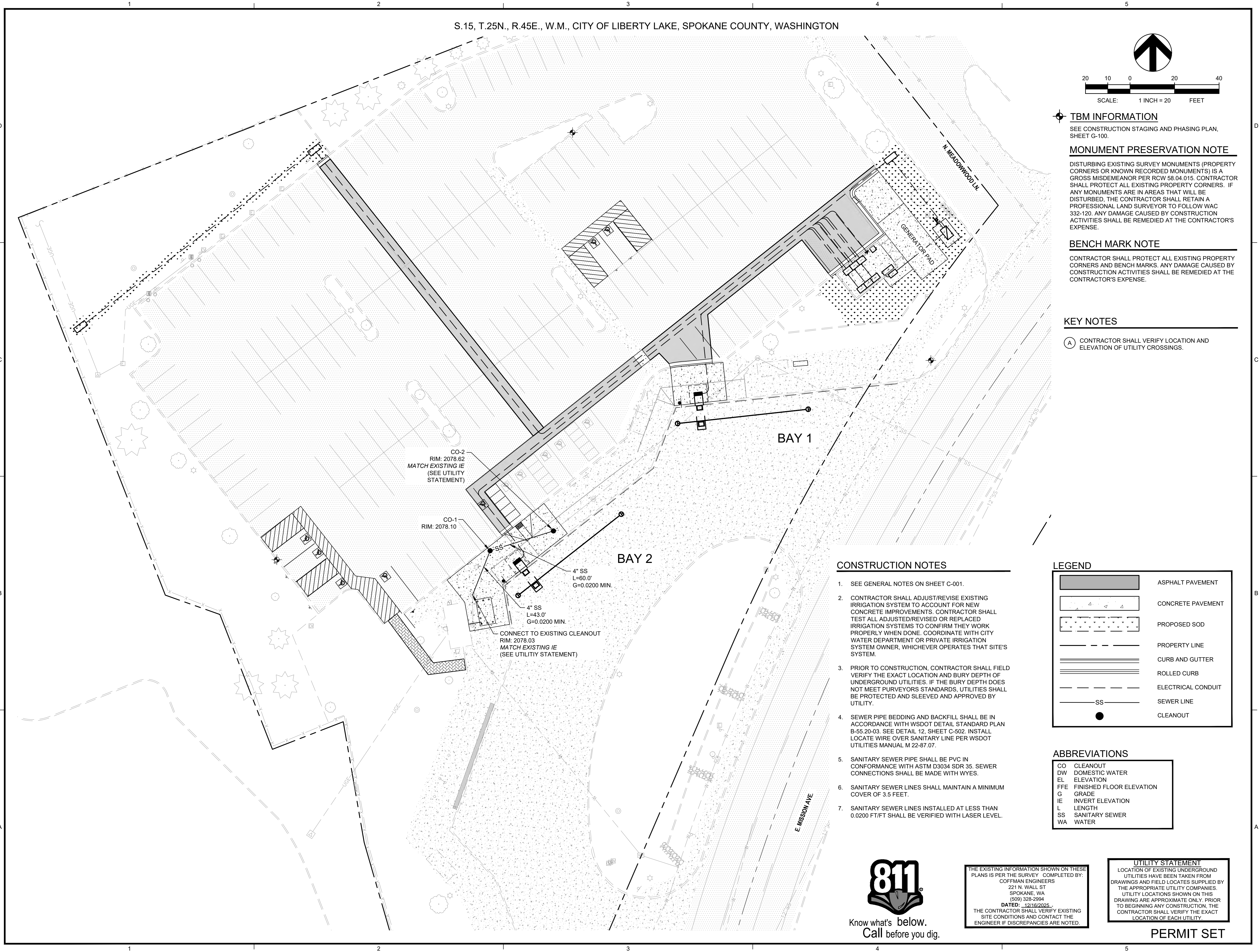
SITE AND GRADING PLAN

SHEET NO:

C-300



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Plotted: 5/28/26 at 2:31pm By: cassandra.pat



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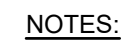
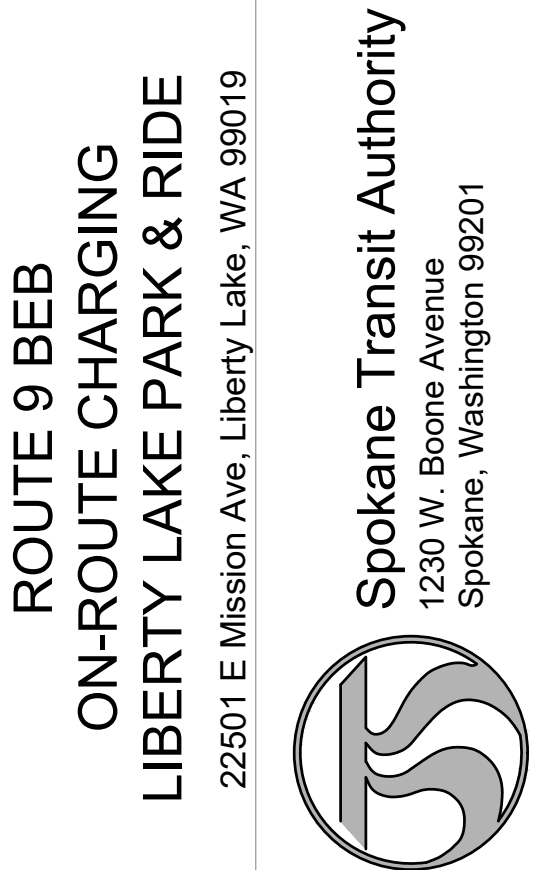
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SHEET TITLE:
UTILITY PLAN

SHEET NO:
C-400

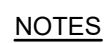


1. PREMOLDED JOINT FILLER SHALL BE EITHER BITUMINOUS MASTIC, BITUMINOUS IMPREGNATED CELLULOSE OR CORK, SPONGE RUBBER, AND RESINBOUND CORK PER ACI 330.
2. JOINT SEALANT SHALL BE SELF-LEVELING POLYURETHANE.
3. JOINT-FILLER MATERIALS SHOULD BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

NOTES

1. JOINT SEALANT SHALL BE SELF-LEVELING POLYURETHANE.

SCALE: NTS

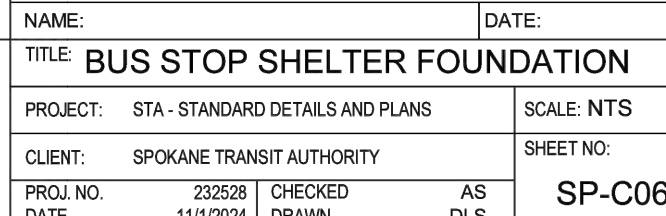


1. PLACE ACCEPTABLE SOIL MATERIAL IN LAYERS TO REQUIRED SUBGRADE ELEVATION.
2. IF EXISTING SUBGRADE SOIL CONDITIONS INHIBIT PROPER COMPACTION, OVER EXCAVATE A MINIMUM 12" AND REPLACE WITH APPROVED ONSITE MATERIAL OR IMPORTED MATERIAL. COORDINATE WITH THE GEOTECHNICAL ENGINEER.
3. COMPACTION EFFORTS AND MASS GRADING SHALL BE MONITORED AND TESTED BY AN EXPERIENCED SOILS TECHNICIAN, UNDER THE SUPERVISION OF A LICENSED GEOTECHNICAL ENGINEER REPRESENTING THE OWNER.
4. PROVIDE 3-INCH SPACING BETWEEN REBAR AND JOINTS (TRANSVERSE AND LONGITUDINAL). DO NOT RUN REBAR CONTINUOUSLY BEYOND JOINTS.
5. CONTRACTION JOINT SPACING SHALL NOT EXCEED 5-FEET O.C. UNLESS OTHERWISE NOTED. EXPANSION JOINT SPACING SHALL NOT EXCEED 15' O.C. UNLESS NOTED OTHERWISE.
6. MATCH EXISTING CONCRETE PAVEMENT THICKNESS IF THICKER.

SCALE: NTS



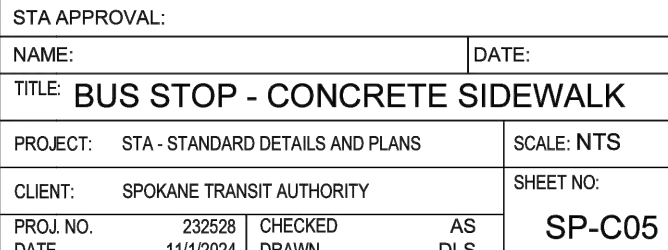
1. MATCH ELEVATIONS OF ADJACENT SIDEWALK CONCRETE. GRADES OF PAD SHALL NOT EXCEED 2.0% IN ANY DIRECTION WHEN SITE CONDITIONS ALLOW.
2. EXPANSION JOINTS SHALL BE INSTALLED AT BUS SHELTER SIDES ADJACENT TO CONCRETE. EXPANSION JOINTS SHALL COMPLY WITH STA STANDARD PLAN SP-C05.
3. SHELTER PAD DIMENSIONS BASED ON 11' X 6' SHELTER BY TOLAR MANUFACTURING.
4. SEE HPT-E04 FOR MORE INFORMATION ON INSTALLATION OF CONDUIT AND ELECTRICAL INFRASTRUCTURE FOR SHELTER.
5. SHELTER IS OFOI. CONDUIT AND LIGHTNING IS CFCL.



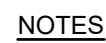
SCALE: NTS



1. 1.2% MINIMUM CROSS SLOPE AND 2.0% MAXIMUM CROSS SLOPE. NO ADDITIONAL CONSTRUCTION TOLERANCE IS ALLOWED.
2. A 5-FEET WIDE TRANSITION PANE IS REQUIRED WHEN CONNECTING NEW SIDEWALKS TO EXISTING SIDEWALKS THAT HAVE CROSS SLOPES EXCEEDING 2.0%.
3. CONCRETE THICKNESS VARIATIONS. INSTALL 6" THICK SECTION FOR HOT STOP CONSTRUCTION AND 4" THICK SECTION FOR ALL OTHER APPLICATIONS.
4. SEE GENERAL NOTES FOR SPECIFICATIONS ON CONCRETE CEMENT, CRUSHED ROCK BASE COURSE, AND SUBGRADE PREPARATION.
5. EXPANSION JOINTS SHALL EXTEND THROUGH THE FULL CROSS-SECTION OF THE SIDEWALK/CURB. EXPANSION JOINT SPACING SHALL NOT EXCEED 10 FEET.
6. CONTRACTION JOINT SPACING SHALL NOT EXCEED 5 FEET O.C., UNLESS OTHERWISE NOTED IN THESE STANDARDS.



SCALE: NTS



1. PLACE ACCEPTABLE SOIL MATERIAL IN LAYERS TO REQUIRED SUBGRADE ELEVATION.
2. MATERIAL AND COMPACTION REQUIREMENTS SHALL CONFORM WITH THE RECOMMENDATIONS OF THE PROJECT GEOTECHNICAL ENGINEERING REPORT.
3. IF EXISTING SUBGRADE SOIL CONDITIONS INHIBIT PROPER COMPACTION, OVER EXCAVATE A MINIMUM 12" AND REPLACE WITH APPROVED ONSITE MATERIAL OR IMPORTED MATERIAL. COORDINATE WITH THE GEOTECHNICAL ENGINEER.
4. COMPACTION EFFORTS AND MASS GRADING SHALL BE MONITORED AND TESTED BY AN EXPERIENCED SOILS TECHNICIAN, UNDER THE SUPERVISION OF A LICENSED GEOTECHNICAL ENGINEER REPRESENTING THE OWNER.

SCALE: NTS



1. PORTLAND CEMENT CONCRETE SHALL BE CLASS 3000, AIR ENTRAINED, CONFORMING TO THE STANDARD SPECIFICATIONS.
2. EXPANSION JOINTS SHALL USE A 5/8" PROMEXLOJOT JOINT FILLER. EXPANSION JOINTS SHALL EXTEND THROUGH THE FULL CROSS SECTION OF THE CURB AND GUTTER. CURB AND GUTTER JOINTS SHALL BE PLACED AT ALL CURB RETURNS AND BETWEEN EXISTING AND NEW CURBS.
3. CONTRACTION JOINTS SHALL BE MADE TOoled 1/4" WIDE BY 2" MINIMUM DEPTH SPACED AT MAX. 15' O.C.
4. TOP AND FACE OF THE CURB SHALL RECEIVE A LIGHT BRUSH FINISH AND THE TOP OF THE GUTTER SHALL RECEIVE A SMOOTH FINISH.
5. "A" CURB IS ONLY ALLOWED WHERE CONSTRUCTION REQUIRES REMOVAL AND RECONSTRUCTION OF EXISTING SIDEWALKS THAT DO NOT HAVE CURB AND GUTTER. TYPE "B" CURB AND GUTTER IS REQUIRED IN ALL NEW DEVELOPMENTS.
6. 4" OF CRUSHED SURFACING TOP COURSE IS REQUIRED UNDER ALL CURBS AND SIDEWALKS. THE SUBGRADE CRUSHED STONE SHALL BE COMPACTED TO 92% OF THE DRY DENSITY.

SCALE: NTS

File: P:\Sp25Jobs\253777 STA TO48 Route 9 En-Route BEB Charging\0.0 DWG\SC253777_CIVIL DETAILS_LL.dwg TAB:C-500
Plotted: 5/26/26 at 2:31pm By: cassandra.potts



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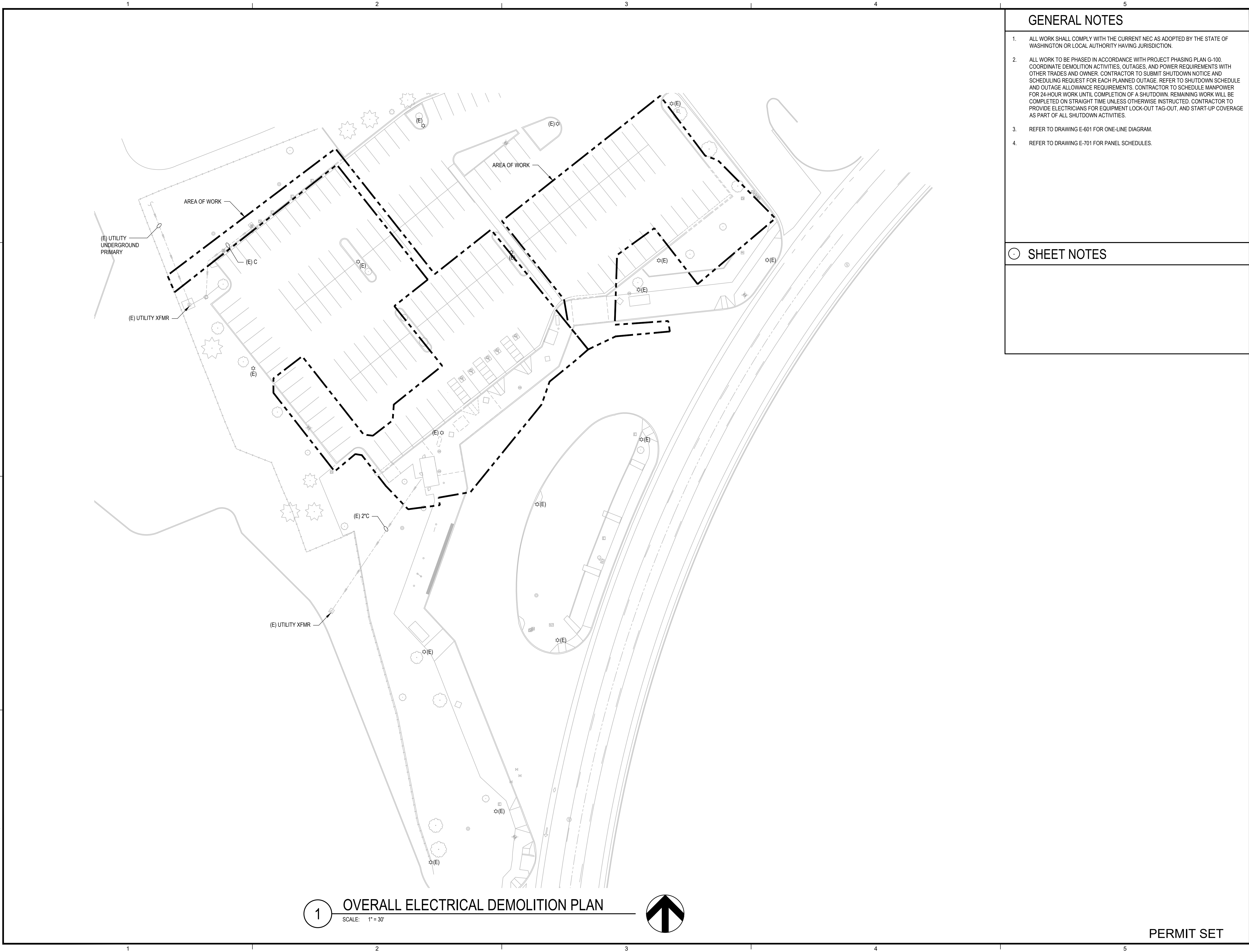
SHEET TITLE:

CIVIL DETAILS

SHEET NO: _____

C-501





GENERAL NOTES

- 1. ALL WORK SHALL COMPLY WITH THE CURRENT NEC AS ADOPTED BY THE STATE OF WASHINGTON OR LOCAL AUTHORITY HAVING JURISDICTION.
- 2. ALL WORK TO BE PHASED IN ACCORDANCE WITH PROJECT PHASING PLAN G-100. COORDINATE DEMOLITION ACTIVITIES, OUTAGES, AND POWER REQUIREMENTS WITH OTHER TRADES AND OWNER. CONTRACTOR TO SUBMIT SHUTDOWN NOTICE AND SCHEDULING REQUEST FOR EACH PLANNED OUTAGE. REFER TO SHUTDOWN SCHEDULE AND OUTAGE ALLOWANCE REQUIREMENTS. CONTRACTOR TO SCHEDULE MANPOWER FOR 24-HOUR WORK UNTIL COMPLETION OF A SHUTDOWN. REMAINING WORK WILL BE COMPLETED ON STRAIGHT TIME UNLESS OTHERWISE INSTRUCTED. CONTRACTOR TO PROVIDE ELECTRICIANS FOR EQUIPMENT LOCK-OUT TAG-OUT, AND START-UP COVERAGE AS PART OF ALL SHUTDOWN ACTIVITIES.
- 3. REFER TO DRAWING E-601 FOR ONE-LINE DIAGRAM.
- 4. REFER TO DRAWING E-701 FOR PANEL SCHEDULES.

SHEET NOTES



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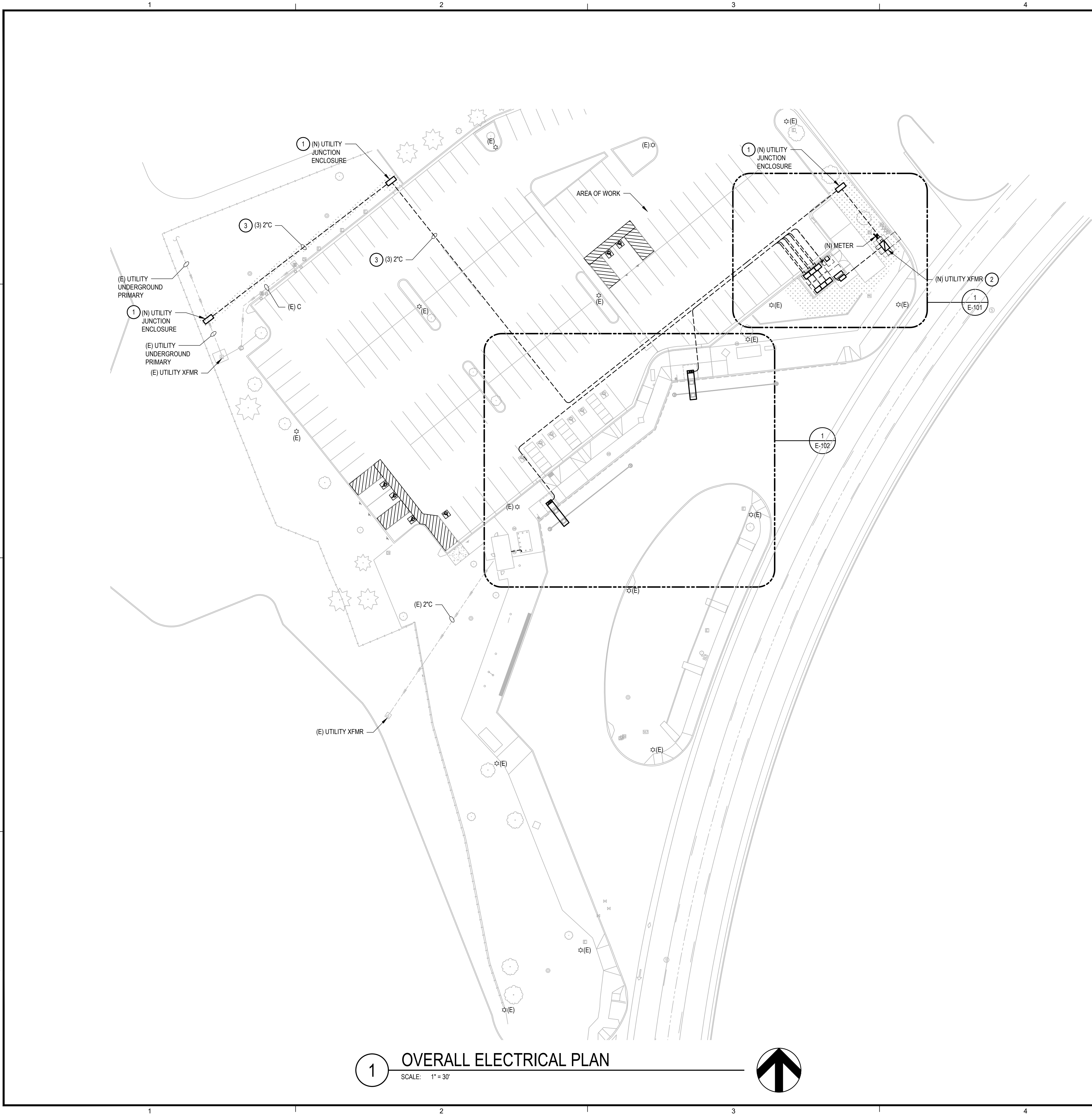
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ELECTRICAL
DEMOLITION
PLAN

SHEET NO:

ED-100



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- PRIOR TO SAW CUTTING OR CORE DRILLING, PROVIDE X-RAY OR SIMILAR LOCATE TECHNOLOGY TO VERIFY LOCATION OF EXISTING REBAR AND CONDUIT. PROVIDE WEATHERPROOF SEALS FOR EXTERIOR PENETRATIONS.
- REFER TO DRAWING E-601 FOR ONE-LINE DIAGRAM, AND CONDUIT AND CABLING REQUIREMENTS.
- REFER TO DRAWING E-701 FOR PANEL SCHEDULES.
- REFER TO DRAWING C-502, DETAIL 14 FOR TRENCHING DETAIL.

SHEET NOTES

- NEW 3-PHASE JUNCTION ENCLOSURE PROVIDED BY UTILITY. STUB-UP CONDUITS PER AVISTA SPECIFICATIONS. COORDINATE JUNCTION ENCLOSURE LOCATION WITH UTILITY PRIOR TO ROUGH-IN.
- CONTRACTOR TO PROVIDE A 90"x132" CONCRETE PAD PER AVISTA SPECIFICATIONS. COORDINATE INSTALLATION OF PAD AND CONDUIT STUB-UPS WITH AVISTA UTILITIES FOR FUTURE UPSIZING OF TRANSFORMER.
- CONTRACTOR TO PROVIDE CONDUIT, TRENCHING AND BACKFILL PER AVISTA SPECIFICATIONS.



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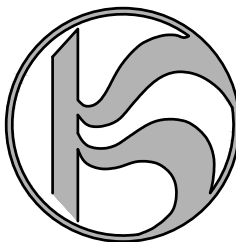
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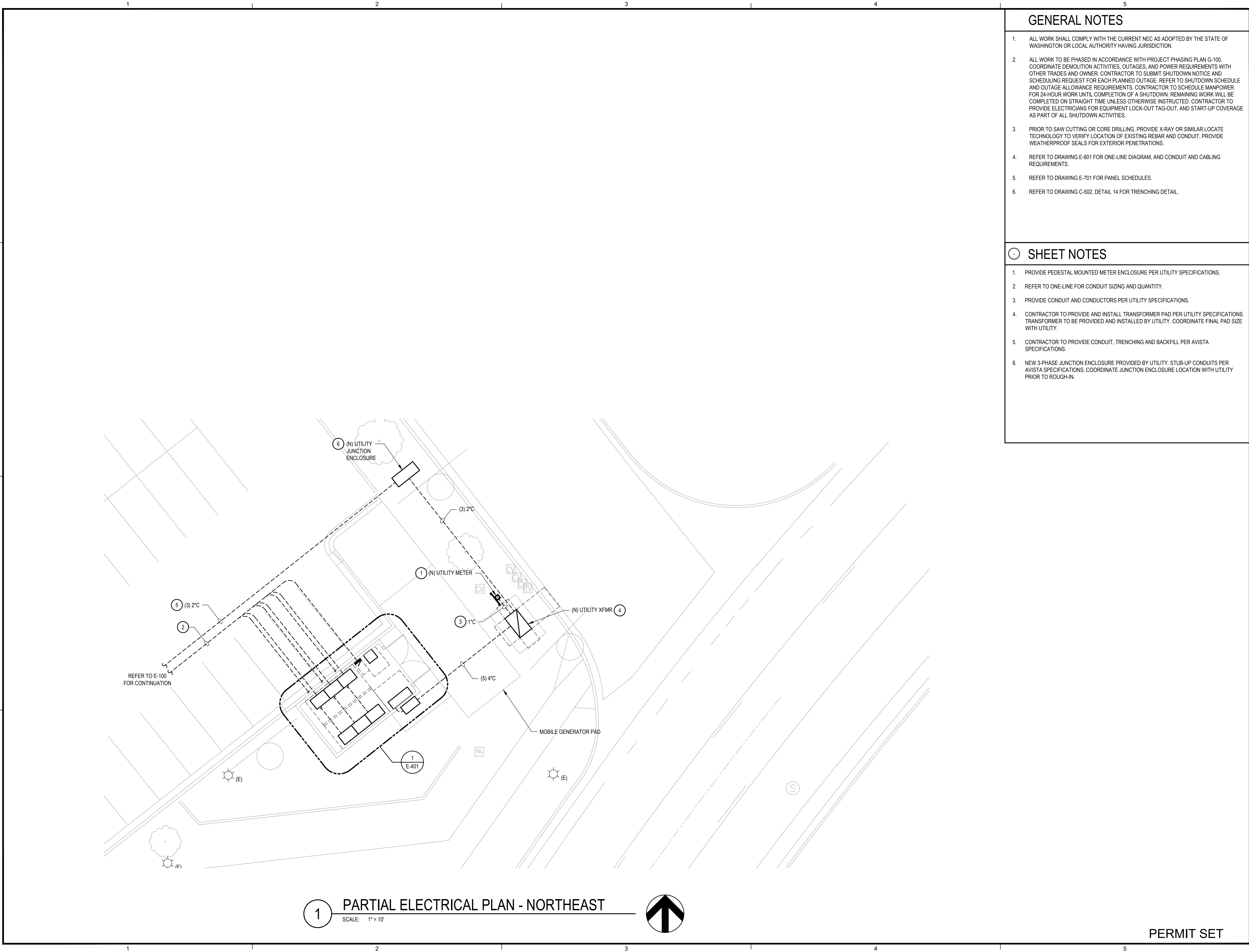
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OVERALL
ELECTRICAL
PLAN

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GENERAL NOTES

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- REFER TO DRAWING E-601 FOR ONE-LINE DIAGRAM, AND CONDUIT AND CABLING REQUIREMENTS.
- REFER TO DRAWING E-701 FOR PANEL SCHEDULES.
- REFER TO DRAWING C-502, DETAIL 14 FOR TRENCHING DETAIL.

SHEET NOTES

- PROVIDE PEDESTAL MOUNTED METER ENCLOSURE PER UTILITY SPECIFICATIONS.
- REFER TO ONE-LINE FOR CONDUIT SIZING AND QUANTITY.
- PROVIDE CONDUIT AND CONDUCTORS PER UTILITY SPECIFICATIONS.
- CONTRACTOR TO PROVIDE AND INSTALL TRANSFORMER PAD PER UTILITY SPECIFICATIONS. TRANSFORMER TO BE PROVIDED AND INSTALLED BY UTILITY. COORDINATE FINAL PAD SIZE WITH UTILITY.
- CONTRACTOR TO PROVIDE CONDUIT, TRENCHING AND BACKFILL PER AVISTA SPECIFICATIONS.
- NEW 3-PHASE JUNCTION ENCLOSURE PROVIDED BY UTILITY. STUB-UP CONDUITS PER AVISTA SPECIFICATIONS. COORDINATE JUNCTION ENCLOSURE LOCATION WITH UTILITY PRIOR TO ROUGH-IN.



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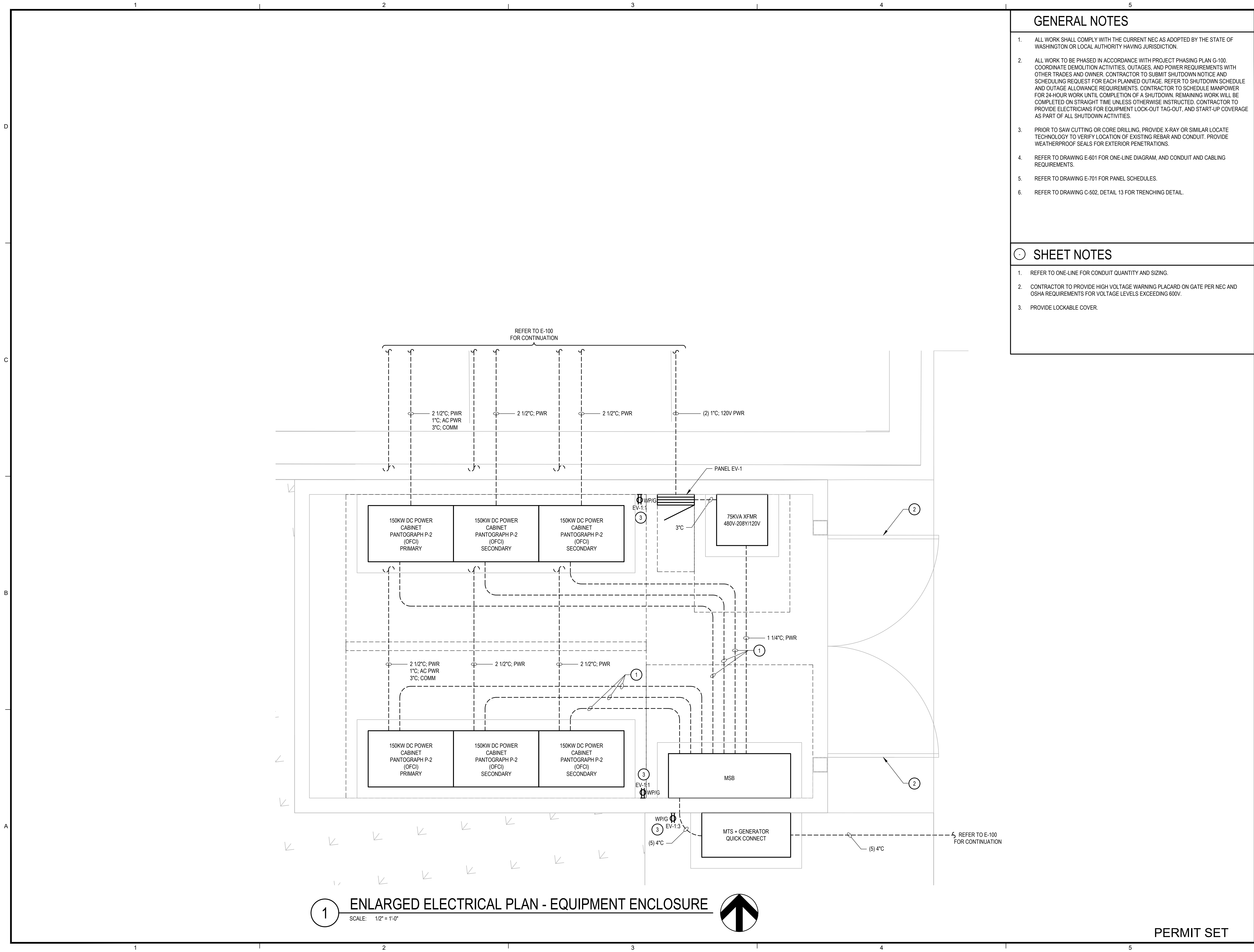
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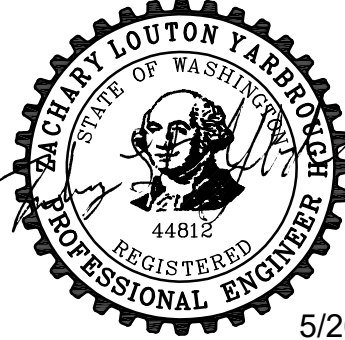
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PARTIAL
ELECTRICAL
PLAN -
NORTHEAST

SHEET NO:
E-101





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REV	DATE	DESCRIPTION

PROJ. NO. 2026-11230
DRAWN SLP
CHECKED MBV
DATE 05/27/2026

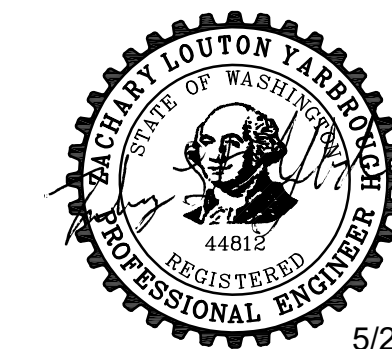
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SHEET TITLE:

ENLARGED
ELECTRICAL
PLAN -
EQUIPMENT
ENCLOSURE

SHEET NO:

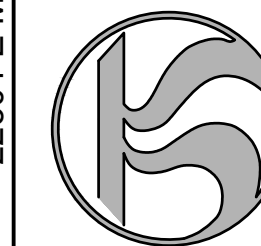
E-401



5/26/26

ROUTE 9 BEB
ON-ROUTE CHARGING
LIBERTY LAKE PARK & RIDE
22501 E Mission Ave, Liberty Lake, WA 99019

Spokane Transit Authority
1230 W. Boone Avenue
Spokane, Washington 99201



REV	DATE	DESCRIPTION
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PROJ. NO.	2026-11230
DRAWN	SLP
CHECKED	MBV
DATE	05/27/2026

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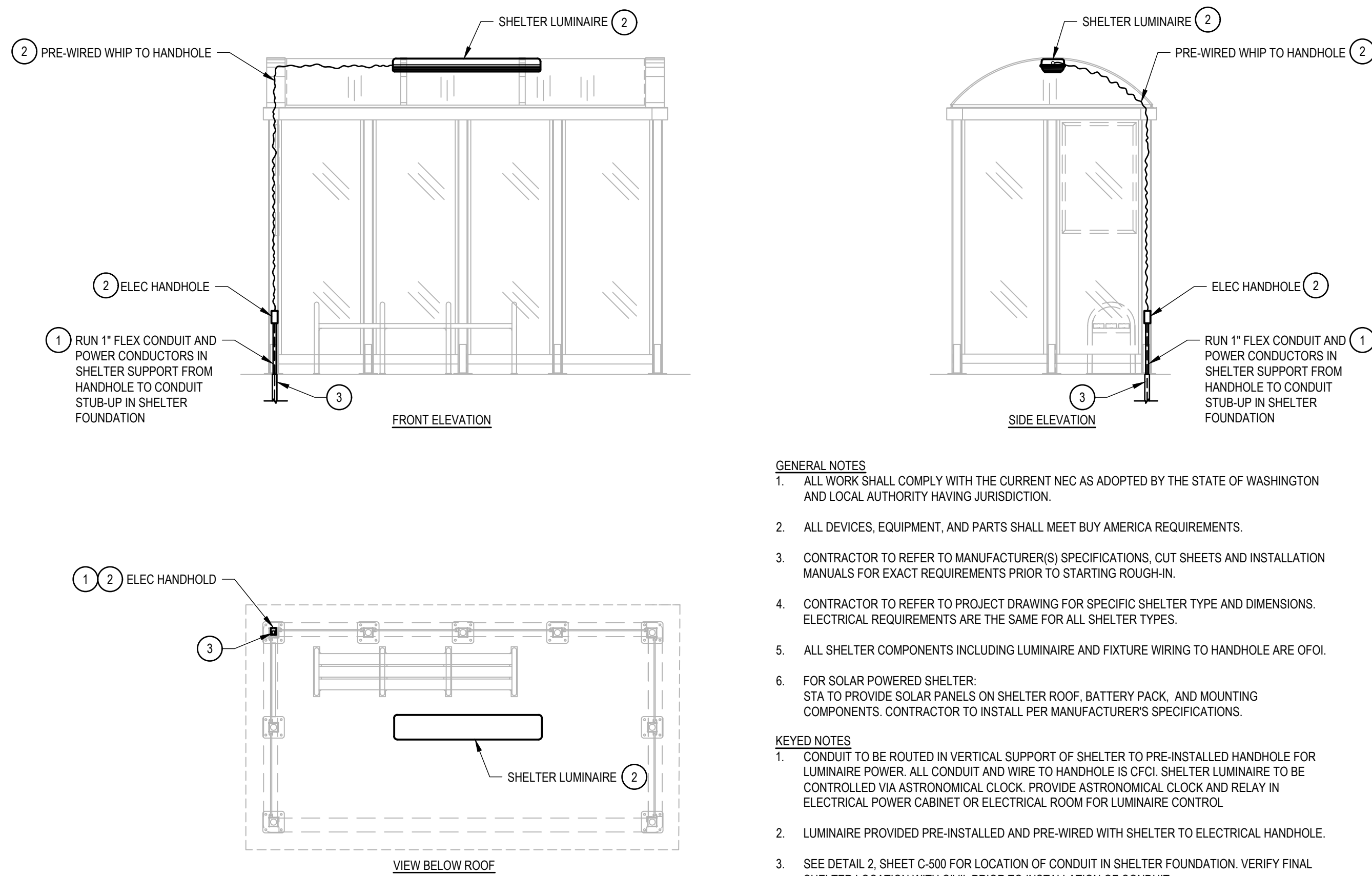
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ELECTRICAL
DETAILS

SHEET NO:

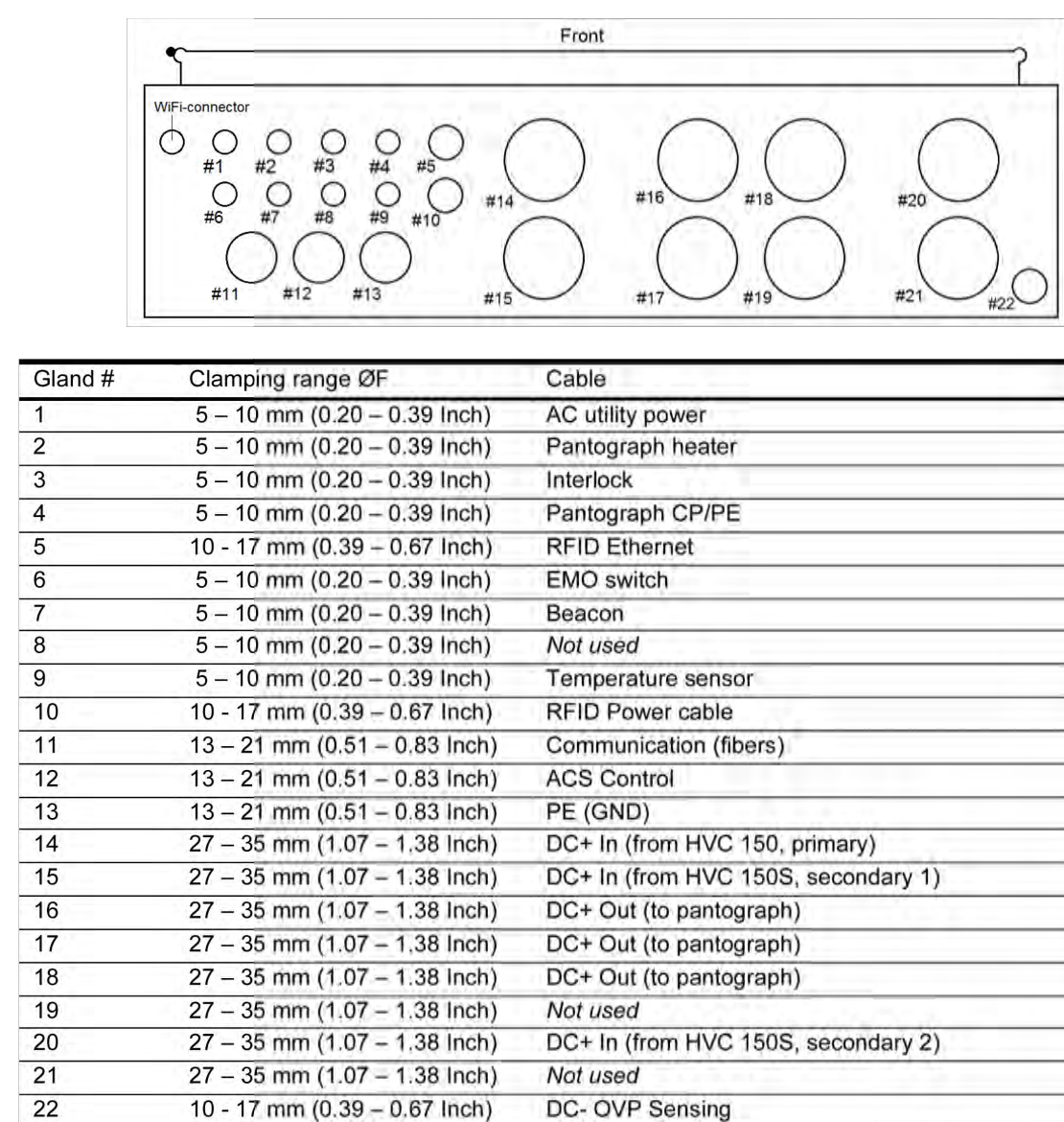
E-501

PERMIT SET



1 SHELTER DETAILS

SCALE: NTS

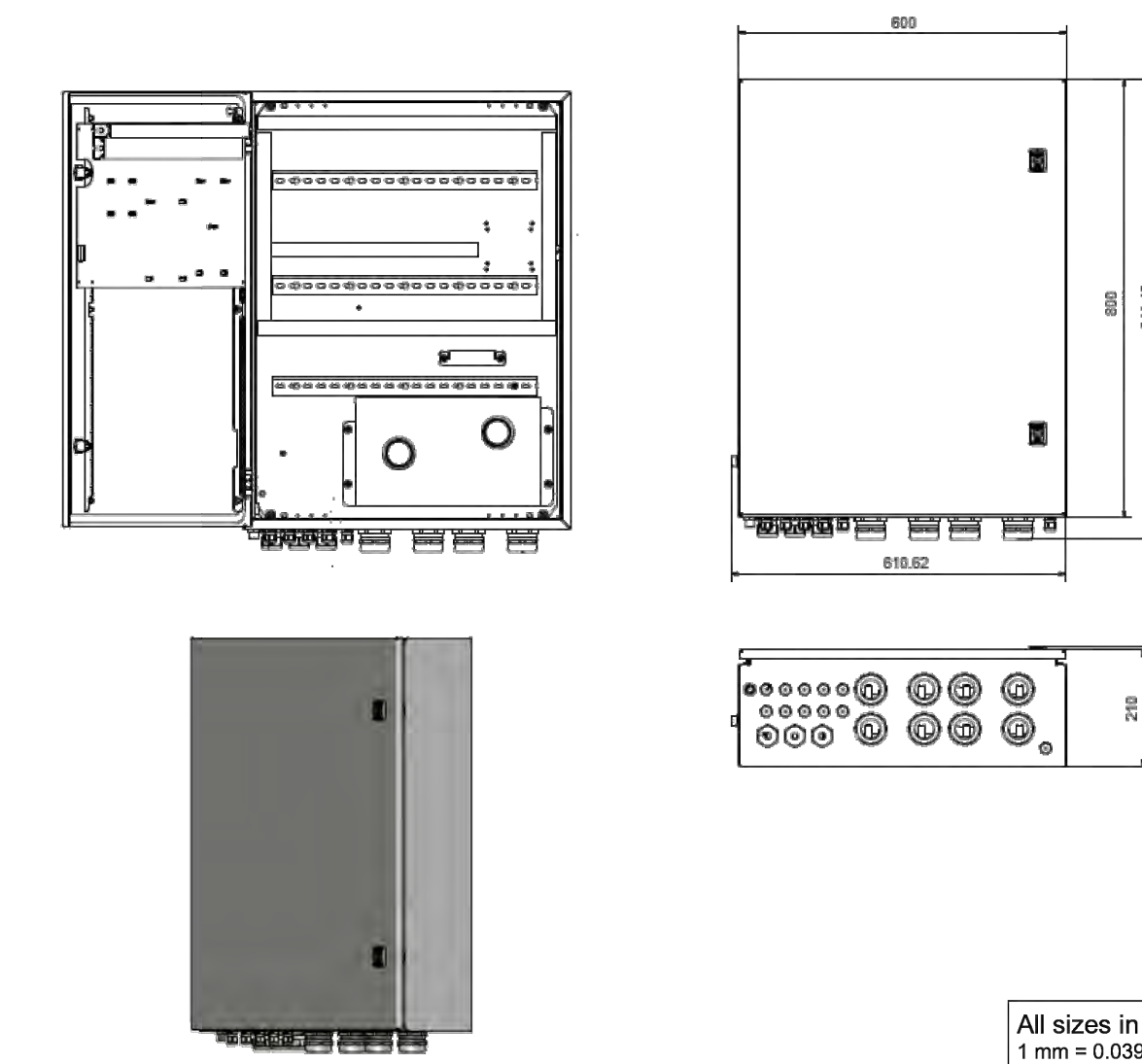


3 ACS CONTROL MODULE GLAND LAYOUT DETAIL (FOR REFERENCE ONLY)

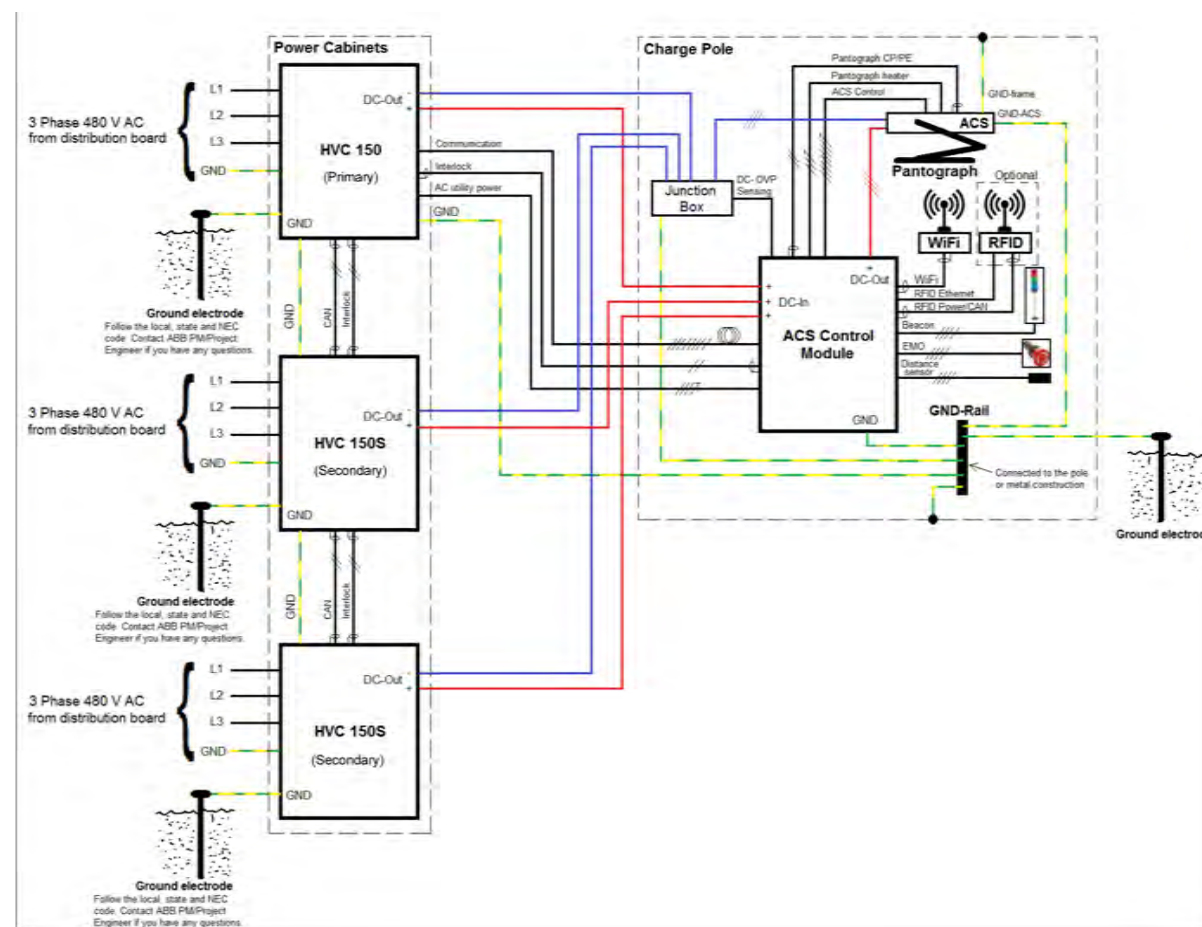
SCALE: NTS

2 ACS CONTROL MODULE DETAIL (FOR REFERENCE ONLY)

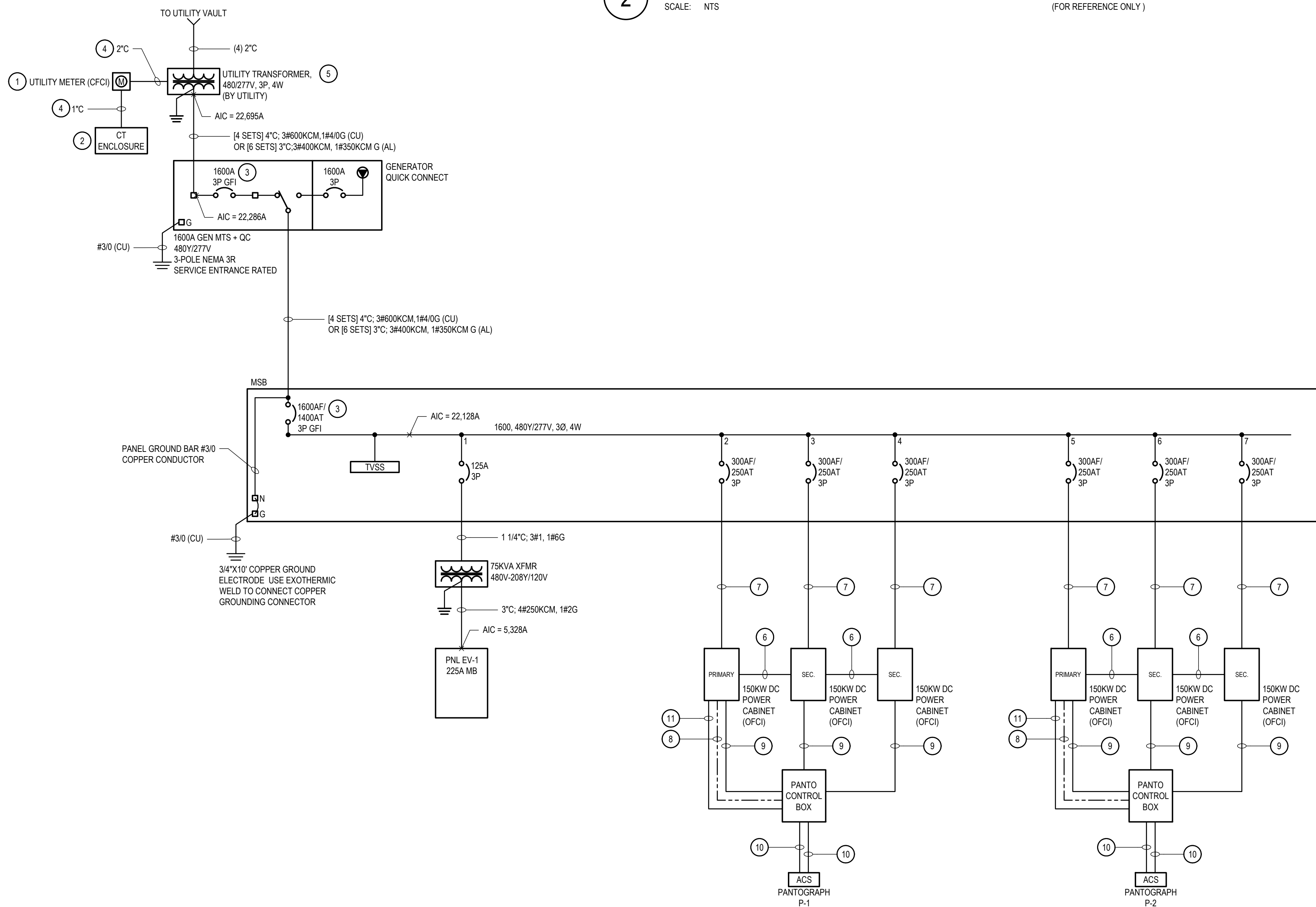
SCALE: NTS



All sizes in mm
1 mm = 0.039 Inch



2 ABB WIRING DIAGRAM - 450KW CHARGE SYSTEM



1 ONE-LINE DIAGRAM
SCALE: NTS

GENERAL NOTES

1. ALL WORK SHALL COMPLY WITH THE CURRENT NEC AS ADOPTED BY THE STATE OF WASHINGTON OR LOCAL AUTHORITY HAVING JURISDICTION.
2. ALL WORK TO BE PHASED IN ACCORDANCE WITH PROJECT PHASING PLAN G-100. COORDINATE DEMOLITION ACTIVITIES, OUTAGES, AND POWER REQUIREMENTS WITH OTHER TRADES AND OWNER. CONTRACTOR TO SUBMIT SHUTDOWN NOTICE AND SCHEDULING REQUEST FOR EACH OUTAGE. REFER TO SHUTDOWN SCHEDULE AND OUTAGE ALLOWANCE REQUIREMENTS. CONTRACTOR TO SCHEDULE MANPOWER FOR 24-HOUR WORK UNTIL COMPLETION OF A SHUTDOWN. REMAINING WORK WILL BE COMPLETED ON STRAIGHT TIME UNLESS OTHERWISE INSTRUCTED. CONTRACTOR TO PROVIDE ELECTRICIANS FOR EQUIPMENT LOCK-OUT TAG-OUT, AND START-UP COVERAGE AS PART OF ALL SHUTDOWN ACTIVITIES.
3. PRIOR TO SAW CUTTING OR CORE DRILLING, PROVIDE X-RAY OR SIMILAR LOCATE TECHNOLOGY TO VERIFY LOCATION OF EXISTING REBAR AND CONDUIT. PROVIDE WEATHERPROOF SEALS FOR EXTERIOR PENETRATIONS.
4. REFER TO DRAWING E-701 FOR PANEL SCHEDULES.

UTILITY COORDINATION

ELEC UTILITY CONTACT: MELANIE CRONK, AVISTA
MELANIE.CRONK@AVISTACORP.COM

CONTRACTOR TO PROVIDE UTILITY TRANSFORMER SIZE AND UTILITY METER NUMBER TO STA PROJECT MANAGER UPON INSTALLATION, AND INDICATE ON RECORD DRAWINGS BELOW.

UTILITY XFMR: _____ KVA

UTILITY METER NO. _____

⊙ SHEET NOTES

1. CONTRACTOR TO PROVIDE METER SOCKET WITH MANUAL LEVEL BYPASS PER UTILITY SPECIFICATIONS.
2. CT ENCLOSURE SHALL BE A MINIMUM OF 36"x36"x11". PROVIDE AND INSTALL PER UTILITY SPECIFICATIONS.
3. SERVICE ENTRANCE RATED MAIN BREAKER. PROVIDE PRIMARY DISCONNECT LABELING PER NEC. PROVIDE ARC ENERGY REDUCTION TO MEET NEC 240.87.
4. PROVIDE CONDUIT AND CONDUCTORS PER UTILITY SPECIFICATIONS.
5. CONTRACTOR TO PROVIDE AND INSTALL TRANSFORMER PAD AND VAULT PER UTILITY SPECIFICATIONS. TRANSFORMER TO BE PROVIDED AND INSTALLED BY UTILITY.
6. PROVIDE (1) 2" CW WITH (2) INTERLOCK CABLES 2X16 AWG SHIELDED. AND (2) CAN CABLES 1X12 18AWG TWISTED SHIELDED PAIR, AND #2 GND, BETWEEN POWER CABINETS. PROVIDE CABLES PER ABB SPECIFICATION.
7. PROVIDE 3"; 3#250KCM, 1#4G (CU) OR 3"; 3#350KCM, 1#2G (AL)
8. PROVIDE (1) 3" CW WITH (2) INTERLOCK CABLES 2X16 AWG SHIELDED, (1) PREFABRICATED GLASS FIBER CABLE, 8-FIBER CABLE (4-SPARE), AND 1#2 GND. GLASS FIBER CABLE PROVIDED BY ABB. CABLE LENGTH MUST BE DEFINED BY CONTRACTOR PRIOR TO ORDER. PROVIDE ALL CABLES PER ABB SPECIFICATION.
9. PROVIDE 2 1/2"; 2#350KCMIL, 1#350KCMIL G (AL), 2000V PV DC CABLE.
10. INSTALL CONDUIT AND CABLE PER ABB SPECIFICATIONS.
11. PROVIDE (1) 1"; 2#14, 1#14G AC UTILITY POWER.



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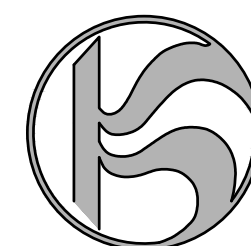
5/26/26

ROUTE 9 BEB
ON-ROUTE CHARGING
LIBERTY LAKE PARK & RIDE

22501 E Mission Ave, Liberty Lake, WA 99019

Spokane Transit Authority

11230 W. Boone Avenue
Spokane Washington 99201



REV	DATE	DESCRIPTION
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PROJ. NO. 2026-11230

DRAWN SLP

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DATE 05/27/2026

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SHEET TITLE:

ONE-LINE DIAGRAM

SHEET NO:

E-601

PERMIT SET

1

2

3

4

5

PROJECT: STA ON-ROUTE CHARGING - LIBERTY LAKEMSB

Location: EQUIPMENT YARD

Feed-Thru to:

Date: 5/27/2026

Ckt	Description	Phase	Amp	Poles	Notes	Ckt Totals	Specifications
1	PANEL EV-1 VIA XFMR	A	125	3		0.54	Voltage (L-L): 480
-	-	B	-	-			Phase/Wire: 3PH / 4W
-	-	C	-	-			Bus Current Rating (Amps): 1600
2	PRIMARY 150KW DC POWER CABINET	A	300	3		50.00	Bus Material: Cu/Al
-	-	B	-	-		50.00	Short Circuit Current Rating (Amps): 30kA
-	-	C	-	-		50.00	Main Type: BRKR
3	SECONDARY 150KW DC POWER CABINET	A	300	3		50.00	Main Rating: 1600
-	-	B	-	-		50.00	Neutral Type: FULL
-	-	C	-	-		50.00	Mounting/End.: SURFACE NEMA3R
4	SECONDARY 150KW DC POWER CABINET	A	300	3		50.00	NEC Sections Used in Demand Calculations
-	-	B	-	-		50.00	Factor # NEC Reference Notes
-	-	C	-	-		50.00	1 TBL 220.44 Receptacles ND 1st 10k @100%, Remainder @50%
5	PRIMARY 150KW DC POWER CABINET	A	300	3		50.00	2 TBL 220.42 Apartments General Lighting 1st 20k@50%, 20-100k @40%, >100k @30%
-	-	B	-	-		50.00	
-	-	C	-	-		50.00	
6	SECONDARY 150KW DC POWER CABINET	A	300	3		50.00	3 430.24 Motors Largest @125% Remainder @100%
-	-	B	-	-		50.00	
-	-	C	-	-		50.00	
7	SECONDARY 150KW DC POWER CABINET	A	300	3		50.00	4 210.19(A)1 Cont Loads 125%
-	-	B	-	-		50.00	5 Non-Cont Loads 100%
-	-	C	-	-		50.00	6 220.51 Heating 100%
Feeder Load Breakdown Conn(KVA) Dmd Fact							
							Non-Dwelling Receptacles 0.54 1.00
							Dwelling General Illumination 0.00 0.00
							Non-Continuous Lighting 0.00 1.00
							Continuous Lighting 0.00 1.25
							Exterior Lighting 0.00 1.25
							Kitchen Appliances 0.00 1.00
							Motors 0.00 1.00
							Largest Motor (per phase) 0.00 0.25
							Fixed Heating 0.00 1.00
							Fixed Cooling 0.00 1.00
							Non-Diversity Loads 0.00 1.00
							Other 900.00 1.00
Connected Feeder Load Summary							
							CONN KVA CONN AMPS NEC KVA NEC AMPS
							PHASE A: 300.54 1084.48 300.54 1084.48
							PHASE B: 300.00 1082.53 300.00 1082.53
							PHASE C: 300.00 1082.53 300.00 1082.53
							TOTAL: 900.54 1083.18 900.54 1083.18
Notes:							
Panel Loading: ACCEPTABLE							

PROJECT: STA ON-ROUTE CHARGING - LIBERTY LAKE

Location: EQUIPMENT YARD

Feed-Thru to:

Date: 5/27/2026

Ckt	Description	Phase	Amp	Poles	Notes	Ckt Totals	Specifications
1	RECEPTACLES	A	20	1		0.54	Voltage (L-L): 208
3	SPARE	B	20	1			Phase/Wire: 3PH / 4W
5	SPARE	C	20	1			Bus Current Rating (Amps): 100
7	SPARE	A	20	1			Bus Material: Cu/Al
9	SPARE	B	20	1			Short Circuit Current Rating (Amps): 14kA
11	SPARE	C	20	1			Main Type: MLO
13	SPARE	A	20	1			Main Rating: 100
15	SPARE	B	20	1			Neutral Type: FULL
17	SPARE	C	20	1			Mounting/End.: SURFACE NEMA3R
19	SPARE	A	20	1			NEC Sections Used in Demand Calculations
21	SPARE	B	20	1			Factor # NEC Reference Notes
23	SPARE	C	20	1			1 TBL 220.44 Receptacles ND 1st 10k @100%, Remainder @50%
25		A					
27		B					
29		C					
31		A					
33		B					
35		C					
37		A					
39		B					
41		C					
2		A					Non-Dwelling Receptacles 0.54 1.00
4		B					Dwelling General Illumination 0.00 0.00
6		C					Non-Continuous Lighting 0.00 1.00
8		A					Continuous Lighting 0.00 1.25
10		B					Exterior Lighting 0.00 1.25
12		C					Kitchen Appliances 0.00 1.00
14		A					Motors 0.00 1.00
16		B					Largest Motor (per phase) 0.00 0.25
18		C					Fixed Heating 0.00 1.00
20		A					Fixed Cooling 0.00 1.00
22		B					Non-Diversity Loads 0.00 1.00
24		C					Other 0.00 1.00
26		A					
28		B					
30		C					
32		A					
34		B					
36		C					
38		A					
40		B					
42		C					
Notes:							
Panel Loading: ACCEPTABLE							

PROJECT: STA ON-ROUTE CHARGING - LIBERTY LAKE

Location: CS UTILITY RM

Feed-Thru to:

Date: 5/27/2026

Ckt	Description	Phase	Amp	Poles	Notes	Ckt Totals	Specifications
1	REC MEN ROOM	A	20	1			Voltage (L-L): 208
3	REC WOMEN ROOM	B	20	1			Phase/Wire: 3PH / 4W
5	REC OUTSIDE MECH ROOM	C	20	1			Bus Current Rating (Amps): 225
7	LIGHT AND FAN	A	20	1			Bus Material: Cu/Al
9	SOFFIT LIGHT - LOAD 1	B	20	1			Short Circuit Current Rating (Amps): BRKR
11	(UNKNOWN)	C	20	1			Main Type: FULL
13	IGN - LOAD 2	A	20	1			Main Rating: 200
15	SEC SECURITY	B	20	1			Neutral Type: FULL
17	REC TELEPHONE	C	20	1			Mounting/End.: SURFACE NEMA1
19	POWER SUPPLY FOR CAMERAS	A	20	1			NEC Sections Used in Demand Calculations
21	LIGHTS PARKING - LOAD 3	B	20	2			Factor # NEC Reference Notes
23	-	C	-	-			1 TBL 220.44 Receptacles ND 1st 10k @100%, Remainder @50%
25	LIGHTS PARKING - LOAD 4	A	20	2			
27	-	B	-	-			
29	HEAT CONTROL	C	15	1			
2	WALL HEATER WOMENS ROOM	A	25	2			Non-Dwelling Receptacles 0.00 0.00
4	-	B	-	-			Dwelling General Illumination 0.00 0.00
6	WALL HEATER MENS ROOM	C	25	2			Non-Continuous Lighting 0.20 1.00
8	-	A	-	-			Continuous Lighting 0.00 1.25
10	UNIT HEATER MECH ROOM	B	20	2			Exterior Lighting 0.00 1.25
12	-	C	-	-			Kitchen Appliances 0.00 1.00
14	HAND DRYER MENS	A	30	1			Motors 0.00 1.00
16	HAND DRYER WOMENS	B	30	1			Largest Motor (per phase) 0.00 0.25
18	WATER HEATER	C	30	1			Fixed Heating 0.00 1.00
20	IRRIGATION CONTROL	A	20	1			Fixed Cooling 0.00 1.00
22	PARKING LOT REC (SPARE)	B	20	1			Non-Diversity Loads 0.00 1.00
24	PARKING LOT REC (SPARE)	C	20	1			Other 0.00 1.00
26	SOUTH MARKER BOARD	A	20	1			
28	SOUTH POLE LIGHTS	B	20	1			
30	SHELTER LIGHTS	C	20	1	1	0.20	
Notes:							
EXISTING PANEL LOADING UNKNOWN. 1. UTILIZE EXISTING SPARE BREAKER FOR NEW SHELTER.							
Panel Loading: ACCEPTABLE							

1

2

3

4

5

PROJECT: STA ON-ROUTE CHARGING - LIBERTY LAKE

Location: EQUIPMENT YARD

Feed-Thru to:

Date: 5/27/2026

Ckt	Description	Phase	Amp	Poles	Notes	Ckt Totals	Specifications
1	RECEPTACLES	A	20	1		0.54	Voltage (L-L): 208
3	SPARE	B	20	1			Phase/Wire: 3PH / 4W
5	SPARE	C	20	1			Bus Current Rating (Amps): 100
7	SPARE	A	20	1			Bus Material: Cu/Al
9	SPARE	B	20	1			Short Circuit Current Rating (Amps): 14kA
11	SPARE	C	20	1			Main Type: MLO
13	SPARE	A	20	1			Main Rating: 100
15	SPARE	B	20	1			Neutral Type: FULL
17	SPARE	C	20	1			Mounting/End.: SURFACE NEMA3R
19	SPARE	A	20	1			NEC Sections Used in Demand Calculations
21	SPARE	B	20	1			Factor # NEC Reference Notes
23	SPARE	C	20	1			1 TBL 220.44 Receptacles ND 1st 10k @100%, Remainder @50%
25		A					
27		B					
29		C					
31		A					
33		B					
35		C					
37		A					
39		B					
41		C					
2		A					Non-Dwelling Receptacles 0.54 1.00
4		B					Dwelling General Illumination 0.00 0.00
6		C					Non-Continuous Lighting 0.00 1.00
8		A					Continuous Lighting 0.00 1.25
10		B					Exterior Lighting 0.00 1.25
12		C					Kitchen Appliances 0.00 1.00
14		A					Motors 0.00 1.00
16		B					Largest Motor (per phase) 0.00 0.25
18		C					Fixed Heating 0.00 1.00
20		A					Fixed Cooling 0.00 1.00
22		B					Non-Diversity Loads 0.00 1.00
24		C					Other 0.00 1.00
26		A					
28		B					
30		C					
32		A					
34		B					
36		C					
38		A					
40		B					
42		C					
Notes:							
Panel Loading: ACCEPTABLE							

PROJECT: STA ON-ROUTE CHARGING - LIBERTY LAKE

Location: CS UTILITY RM

Feed-Thru to:

Date: 5/27/2026

Ckt	Description	Phase	Amp	Poles	Notes	Ckt Totals	Specifications
1	REC MEN ROOM	A	20	1			Voltage (L-L): 208
3	REC WOMEN ROOM	B	20	1			Phase/Wire: 3PH / 4W
5	REC OUTSIDE MECH ROOM	C	20	1			Bus Current Rating (Amps): 225
7	LIGHT AND FAN	A	20	1			Bus Material: Cu/Al
9	SOFFIT LIGHT - LOAD 1	B	20	1			Short Circuit Current Rating (Amps): BRKR
11	(UNKNOWN)	C	20	1			Main Type: FULL
13	IGN - LOAD 2	A	20	1			Main Rating: 200
15	SEC SECURITY	B	20	1			Neutral Type: FULL
17	REC TELEPHONE	C	20	1			Mounting/End.: SURFACE NEMA1
19	POWER SUPPLY FOR CAMERAS	A	20	1			NEC Sections Used in Demand Calculations
21	LIGHTS PARKING - LOAD 3	B	20	2			Factor # NEC Reference Notes
23	-	C	-	-			1 TBL 220.44 Receptacles ND 1st 10k @100%, Remainder @50%
25	LIGHTS PARKING - LOAD 4	A	20	2			
27	-	B	-	-			
29	HEAT CONTROL	C	15	1			
2	WALL HEATER WOMENS ROOM	A	25	2			Non-Dwelling Receptacles 0.00 0.00
4	-	B	-	-			Dwelling General Illumination 0.00 0.00
6	WALL HEATER MENS ROOM	C	25	2			Non-Continuous Lighting 0.20 1.00
8	-	A	-	-			Continuous Lighting 0.00 1.25
10	UNIT HEATER MECH ROOM	B	20	2			Exterior Lighting 0.00 1.25
12	-	C	-	-			Kitchen Appliances 0.00 1.00
14	HAND DRYER MENS	A	30	1			Motors 0.00 1.00
16	HAND DRYER WOMENS	B	30	1			Largest Motor (per phase) 0.00 0.25
18	WATER HEATER	C	30	1			Fixed Heating 0.00 1.00
20	IRRIGATION CONTROL	A	20	1			Fixed Cooling 0.00 1.00
22	PARKING LOT REC (SPARE)	B	20	1			Non-Diversity Loads 0.00 1.00
24	PARKING LOT REC (SPARE)	C	20	1			Other 0.00 1.00
26	SOUTH MARKER BOARD	A	20	1			
28	SOUTH POLE LIGHTS	B	20	1			
30	SHELTER LIGHTS	C	20	1	1	0.20	
Notes:							
EXISTING PANEL LOADING UNKNOWN. 1. UTILIZE EXISTING SPARE BREAKER FOR NEW SHELTER.							
Panel Loading: ACCEPTABLE							

COFFMAN ENGINEERS

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Spokane, WA 99201

2021 EDITION OF THE INTERNATIONAL BUILDING CODE

PROVIDE (1) #5 BAR IN MINIMUM 8" DEEP GROUTED CONTINUOUS BOND BEAM AT 32" OC AND AT BOTTOM OF WALL, TOP OF PARAPET, OR TOP OF FREESTANDING WALL. PROVIDE (2) #5 BARS IN MINIMUM 8" DEEP GROUTED CONTINUOUS BOND BEAM AT ELEVATED FLOOR AND ROOF LINES. PLACE THESE BARS CONTINUOUS THROUGH CONTROL JOINTS AT ROOF AND FLOOR LINES AND WRAP MASTIC TAPE FOR 1'-6" EACH SIDE OF CONTROL JOINT. PROVIDE BARS TO MATCH DISCONTINUE HORIZONTAL REINFORCING AT CONTROL JOINTS. PROVIDE BARS AT OTHERS LOCATIONS, DISCONTINUE BOND BEAM REINFORCING AT INTERSECTION OF INTERSECTION IN ORDER TO MAINTAIN BOND BEAM CONTINUITY. LAP SPICES SHALL BE 52 BAR DIAMETERS UNLESS OTHERWISE SPECIFIED IN THE SCHEDULE. STAGGER ALTERNATE SPICES A MINIMUM OF 48 BAR DIAMETERS.

THREADED RODS FOR ADHESIVE ANCHORS SHALL BE CLEAN THREADED ROD. FOR USE IN INTERIOR LOCATIONS THREADED ROD SHALL BE ASTM F1554, GRADE 36. THREADED ROD FOR USE IN INTERIOR APPLICATIONS WITH HILTI ADHESIVE TO CONCRETE AND WITH DEWALT ADHESIVE TO GROUTED MASONRY SHALL HAVE A 0.0002-INCH THICK ZINC ELECTROPLATED COATING COMPLYING WITH ASTM B633 SEC 3.1. THREADED ROD USED AT EXTERIOR CONDITIONS OR WHERE THE ANCHOR IS IN CONTACT WITH PRESERVATIVE-TREATED OR FIRE-RETARDANT-TREATED LUMBER SHALL BE EITHER STAINLESS STEEL OR SHALL HAVE A ZINC-55GB SILVER FINISH. STEEL THREADED RODS SHALL CONFORM TO ASTM A193, GRADE B8 OR B8M FOR STEEL. STAINLESS STEEL THREADED RODS SHALL CONFORM TO ASTM A193, GRADE B8 OR B8M FOR STAINLESS STEEL. ALL THREADED RODS SHALL BE CLEAN, FREE OF OIL, GREASE AND SHALL CONFORM TO ASTM F593 (A193 304 OR 316) OR HILTI AND DEWALT ADHESIVE PRODUCTS AND FOR SIMPSON ADHESIVE WITH THREADED ROD TO CONCRETE. ZINC COATING ON THREADED RODS SHALL BE HOT-DIPPED IN ACCORDANCE WITH ASTM A153 CLASS C OR D COATING.



REV	DATE	DESCRIPTION

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SHEET TITLE:

GENERAL STRUCTURAL NOTES

SHEET NO:

S-001

PERMIT SET



ROUTE 9 BEB
ON-ROUTE CHARGING
LIBERTY LAKE PARK & RIDE

22501 E Mission Ave, Liberty Lake, WA 99019

Spokane Transit Authority
1230 W. Boone Avenue
Spokane, Washington 99201

[illegible]

PROJ. NO. 2026-11230
DRAWN CEP
CHECKED JNM
DATE 05/27/2026

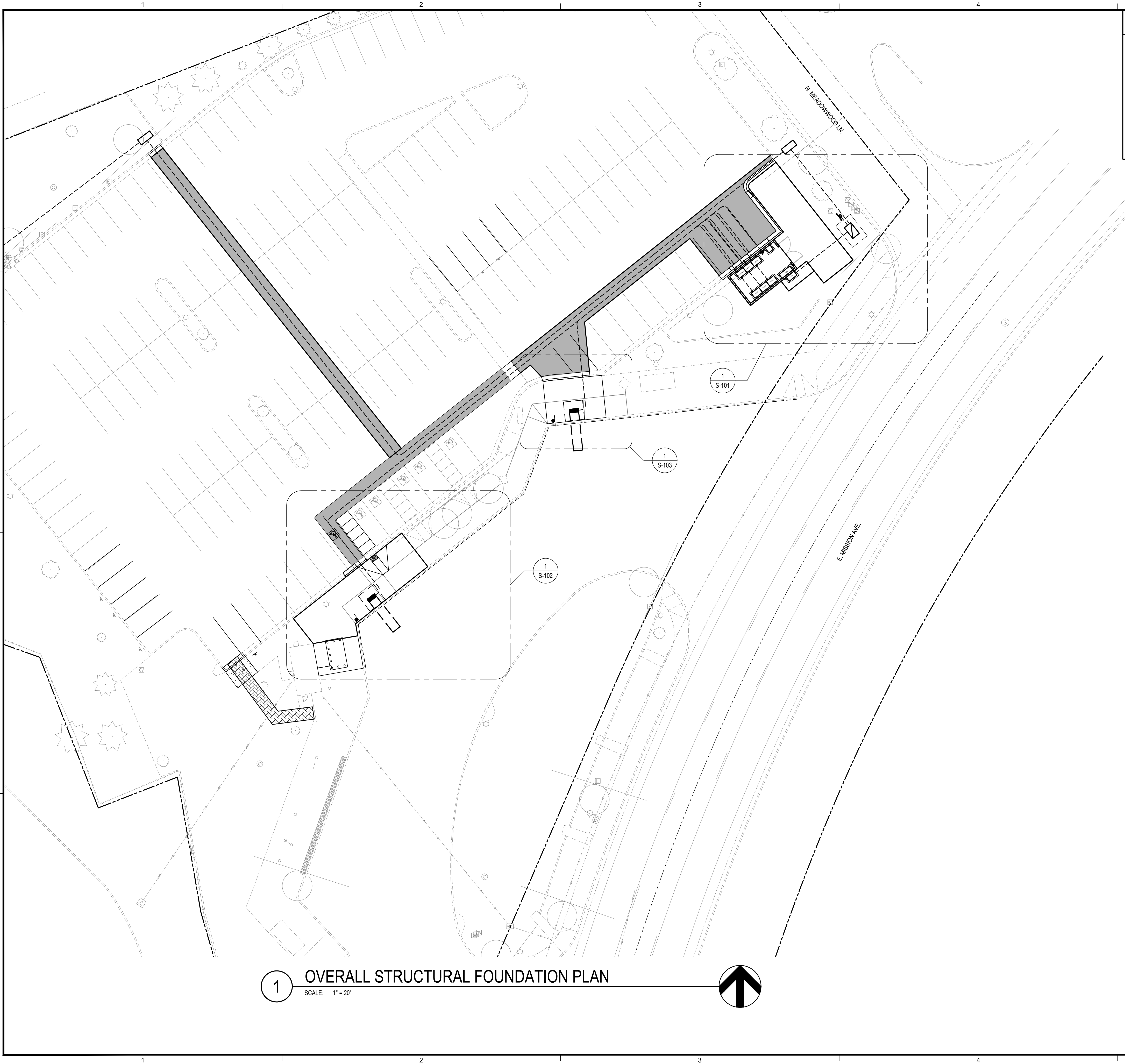
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SHEET TITLE:

SPECIAL INSPECTION TABLES

SHEET NO:

S-002



GENERAL NOTES

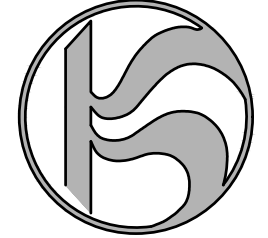
1. CONTRACTOR TO FABRICATE ANCHOR BOLT TEMPLATE BASED ON FRAME SUPPLIERS DRAWINGS FOR USE IN LOCATING ANCHOR BOLTS PRIOR TO POURING CONCRETE.



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ROUTE 9 BEB
ON-ROUTE CHARGING
LIBERTY LAKE PARK & RIDE
22501 E Mission Ave, Liberty Lake, WA 99019



Spokane Transit Authority
1230 W. Boone Avenue
Spokane, Washington 99201

REV	DATE	DESCRIPTION

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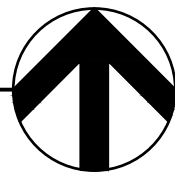
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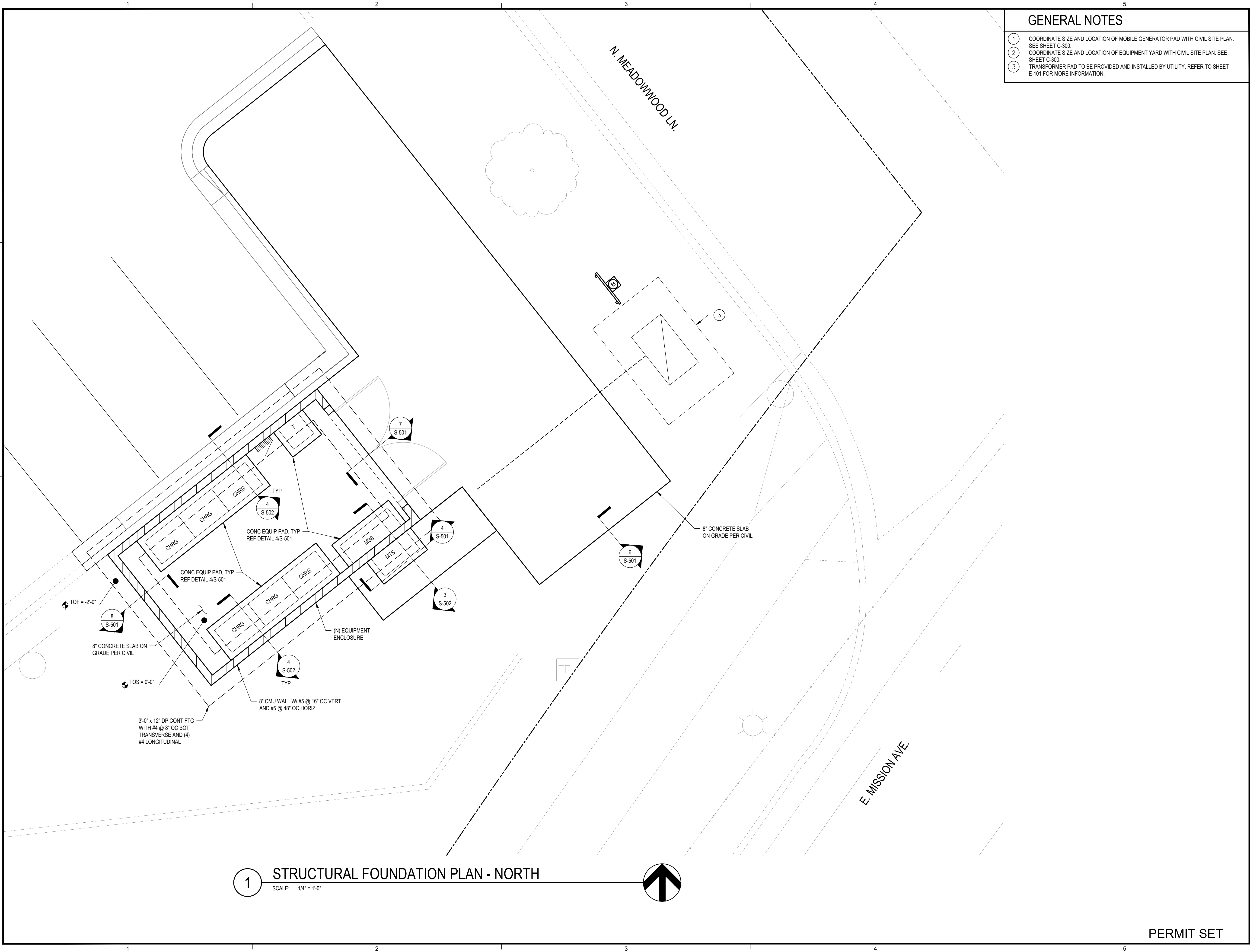
OVERALL
STRUCTURAL
FOUNDATION
AND FRAMING
PLAN

SHEET NO:

S-100

1 OVERALL STRUCTURAL FOUNDATION PLAN
SCALE: 1" = 20'





GENERAL NOTES

- 1. COORDINATE SIZE AND LOCATION OF MOBILE GENERATOR PAD WITH CIVIL SITE PLAN. SEE SHEET C-300.
- 2. COORDINATE SIZE AND LOCATION OF EQUIPMENT YARD WITH CIVIL SITE PLAN. SEE SHEET C-300.
- 3. TRANSFORMER PAD TO BE PROVIDED AND INSTALLED BY UTILITY. REFER TO SHEET E-101 FOR MORE INFORMATION.



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ON-ROUTE CHARGING
LIBERTY LAKE PARK & RIDE
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Spokane Transit Authority
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REV	DATE	DESCRIPTION

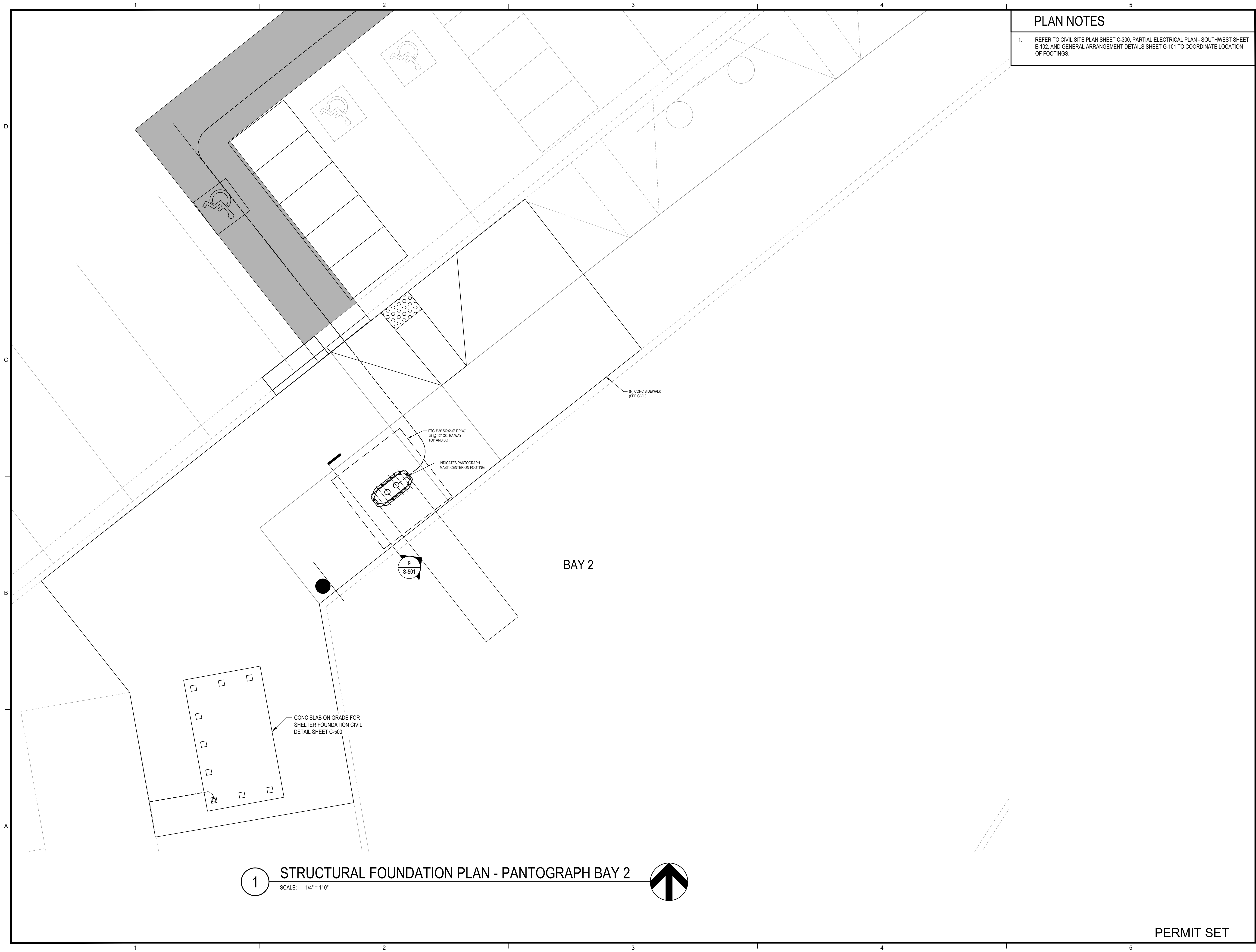
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SHEET TITLE:
STRUCTURAL
FOUNDATION
PLAN - NORTH

SHEET NO:
S-101

PERMIT SET



PLAN NOTES

1. REFER TO CIVIL SITE PLAN SHEET C-300, PARTIAL ELECTRICAL PLAN - SOUTHWEST SHEET E-102, AND GENERAL ARRANGEMENT DETAILS SHEET G-101 TO COORDINATE LOCATION OF FOOTINGS.



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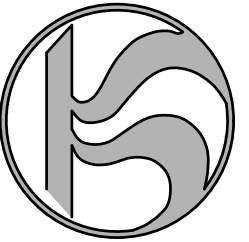
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SHEET TITLE:

STRUCTURAL
FOUNDATION
PLAN -
PANTOGRAPH
BAY 2

SHEET NO:

S-102

PERMIT SET



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SHEET TITLE:

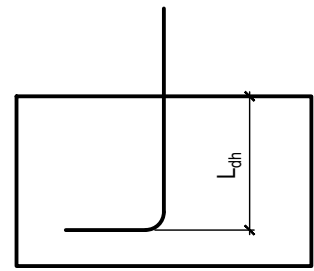
**STRUCTURAL
DETAILS**

SHEET NO:

S-501

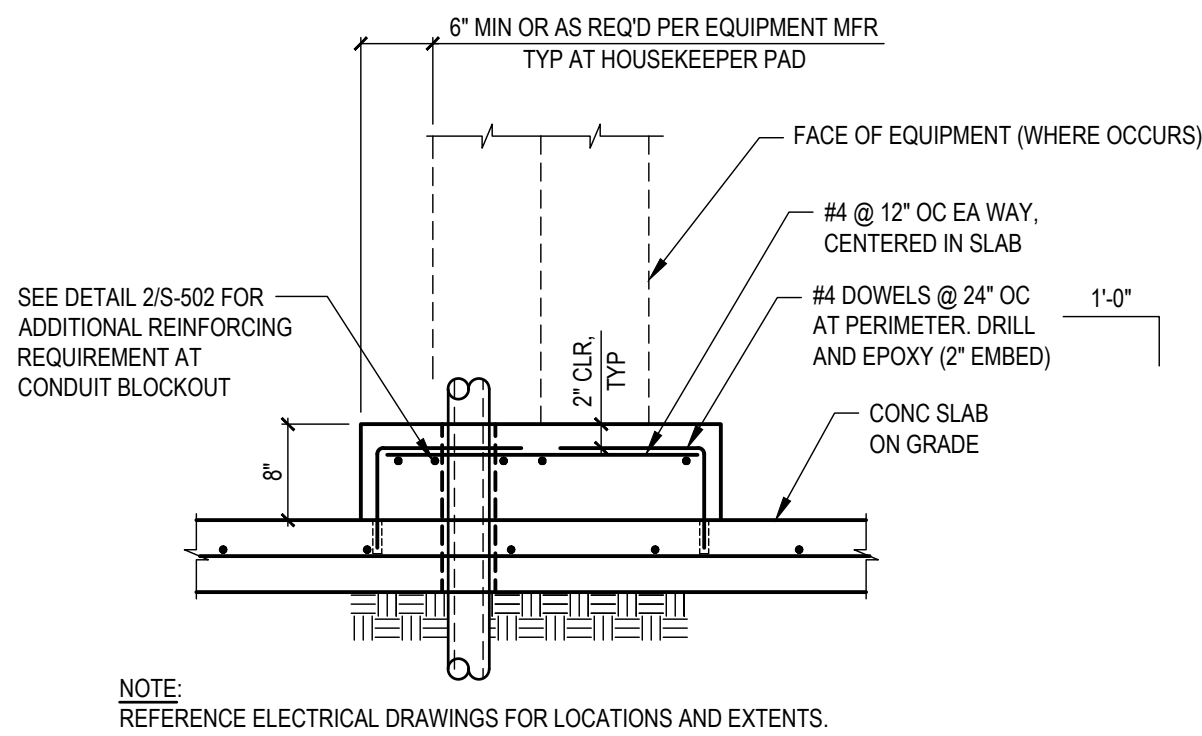
PERMIT SET

BAR SIZE	DEVELOPMENT OF STANDARD HOOKS (90°)	
	$f_c = 2500$ OR 3000 PSI	$f_c = 4000$ PSI
#3	9"	7"
#4	12"	9"
#5	15"	12"
#6	18"	14"
#7	21"	17"
#8	24"	19"
#9	27"	21"
#10	31"	24"
#11	34"	27"

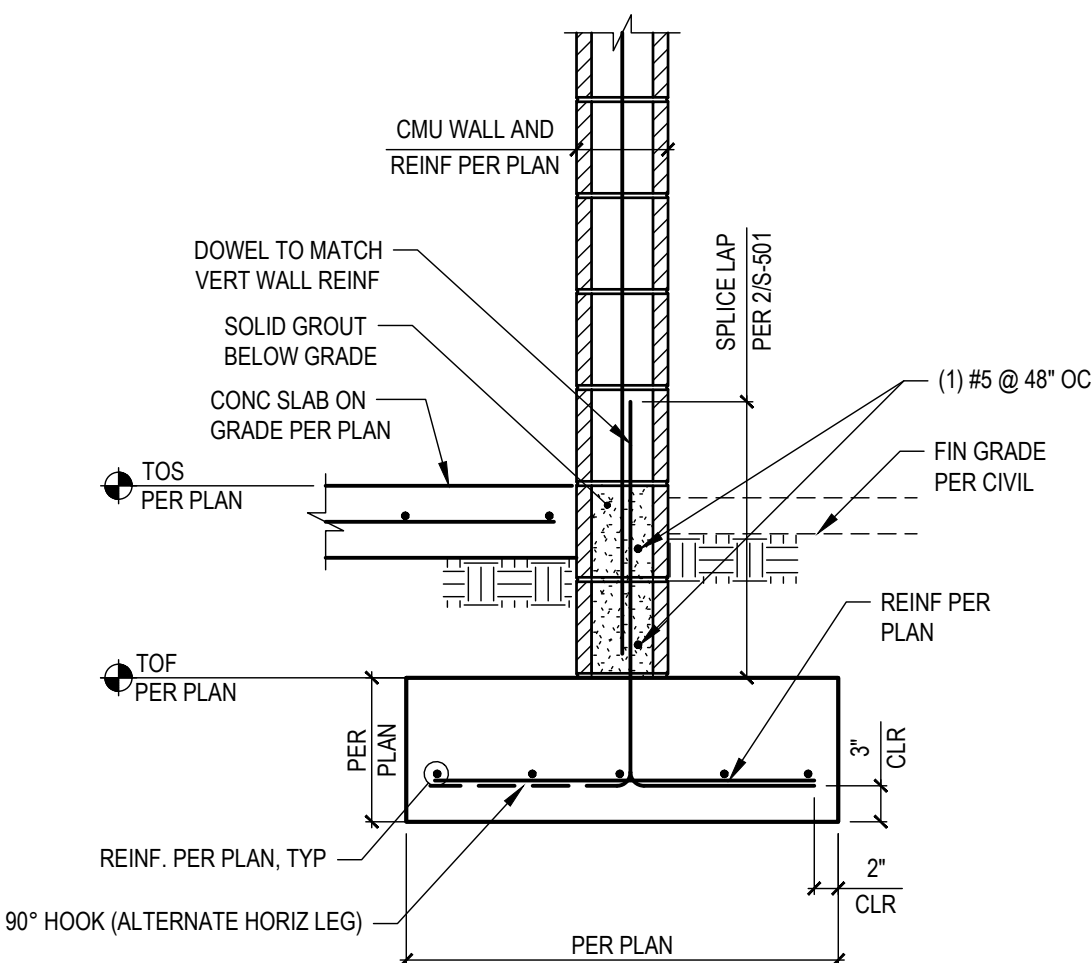


- NOTES:
1. REINFORCING YIELD STRENGTH $F_y = 60$ KSI.
 2. APPLICABLE TO UNCOATED BARS ONLY.
 3. NORMAL WEIGHT CONCRETE ONLY.
 4. NOT APPLICABLE TO JOINTS OF SPECIAL MOMENT FRAMES.
 5. IF DESIGN f_c IS NOT SHOWN, USE NEXT LOWEST f_c SHOWN IN TABLE FOR CONSERVATIVE HOOK LENGTH.

1 MINIMUM DEVELOPMENT LENGTHS FOR 90° HOOKED BARS



4 TYP EQUIPMENT PAD

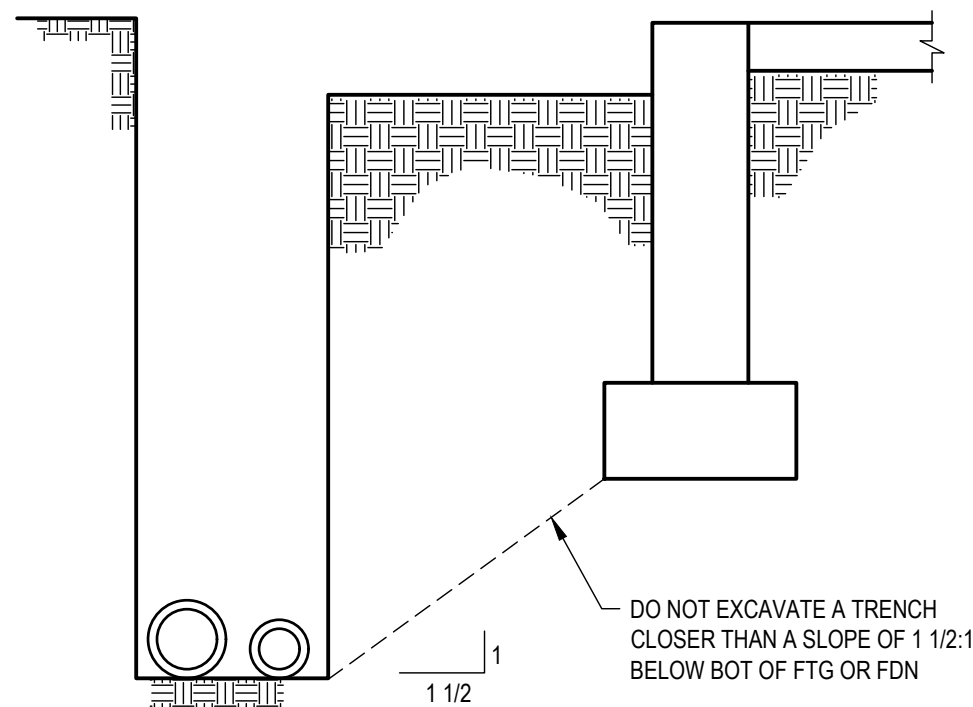


8 TYPICAL EXTERIOR CMU WALL FOOTING

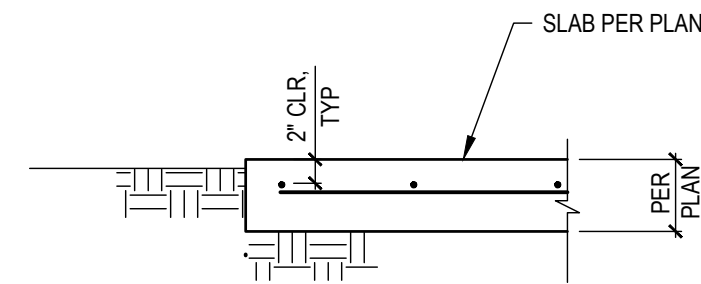
BAR SIZE	CLASS B TENSION SPLICES, L_{dt}				COMPRESSION BARS, L_{sc}	
	$f_c = 2,500$ OR 3,000 PSI		$f_c = 4,000$ PSI		$f_c = \text{ALL}$	
	REGULAR BARS	TOP BARS	REGULAR BARS	TOP BARS	OPEN	ENCLOSED W/ TIES SPACED NOT MORE THAN 4" O.C.
#3	24"	31"	19"	24"	12"	12"
#4	32"	41"	25"	32"	15"	13"
#5	40"	52"	31"	40"	19"	16"
#6	48"	62"	37"	48"	23"	20"
#7	69"	89"	54"	70"	27"	23"
#8	79"	102"	62"	80"	30"	25"
#9	89"	116"	70"	91"	34"	29"
#10	100"	130"	79"	102"	38"	32"
#11	111"	144"	87"	113"	43"	36"

- NOTES:
1. UNLESS NOTED OTHERWISE, LAP SPLICES IN CONCRETE BEAMS, WALLS, SLABS AND FOOTINGS SHALL BE CLASS "B" TENSION LAP SPLICES AND LAP SPLICES IN CONCRETE COLUMNS SHALL BE COMPRESSION LAP SPLICES.
 2. STAGGER ALTERNATE SPLICES A MINIMUM OF ONE LAP LENGTH.
 3. TOP BARS ARE ANY HORIZONTAL BARS PLACED SO THAT MORE THAN 12" OF FRESH CONCRETE IS CAST IN THE MEMBER BELOW THE REINFORCEMENT.
 4. REINFORCING YIELD STRENGTH $F_y = 60$ KSI.
 5. FOR BEAMS AND COLUMNS ACI 25.4.2.2 CASE 1 APPLIES (CONCRETE COVER AT LEAST ONE BAR DIAMETER AND CENTER TO CENTER SPACING AT LEAST TWO BAR DIAMETERS).
 6. FOR ALL OTHER MEMBERS CASE 1 APPLIES (CONCRETE COVER AT LEAST ONE BAR DIAMETER AND CENTER TO CENTER SPACING AT LEAST THREE BAR DIAMETERS).

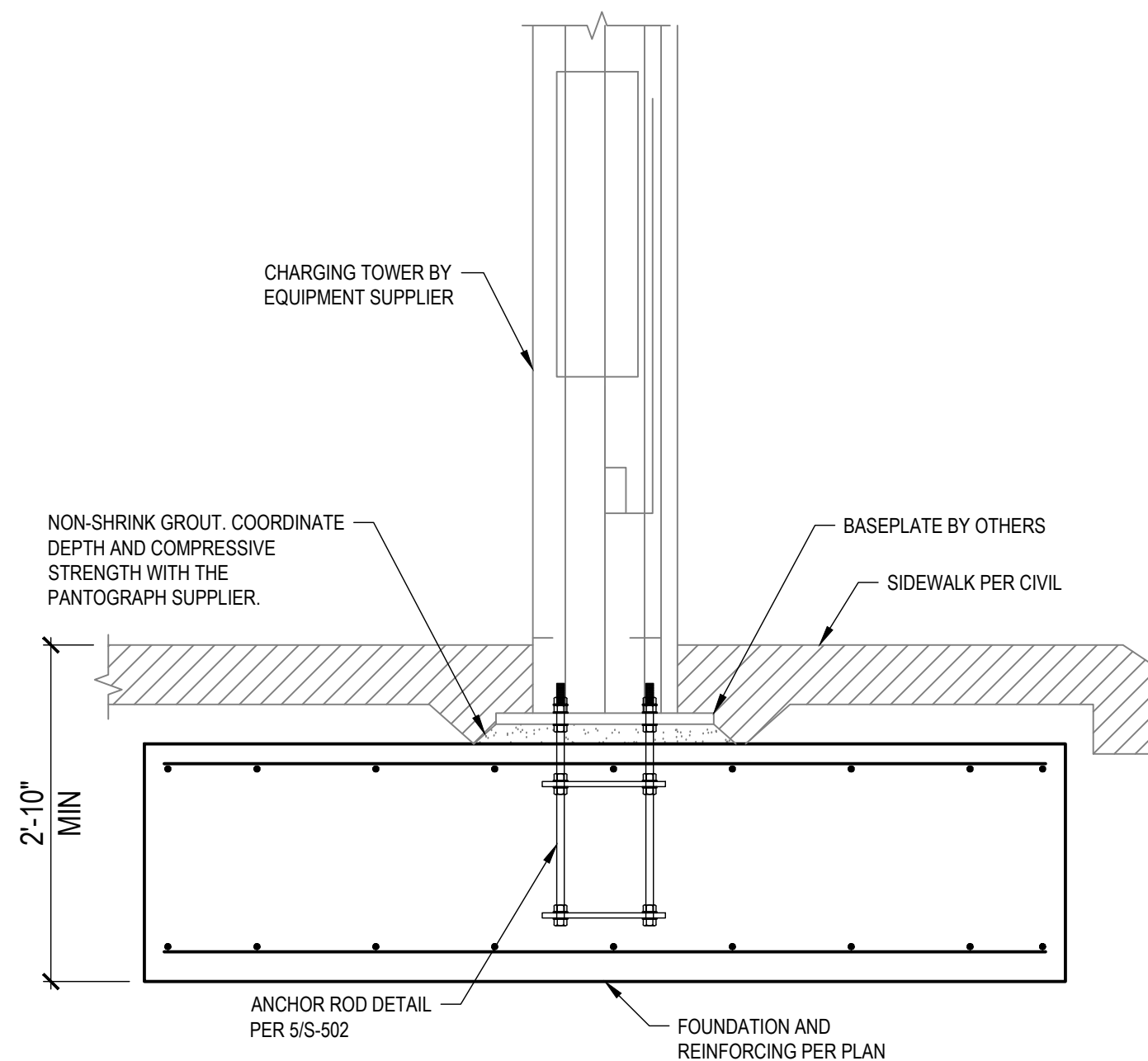
2 MINIMUM SPLICE LENGTHS FOR REINFORCING IN CONCRETE



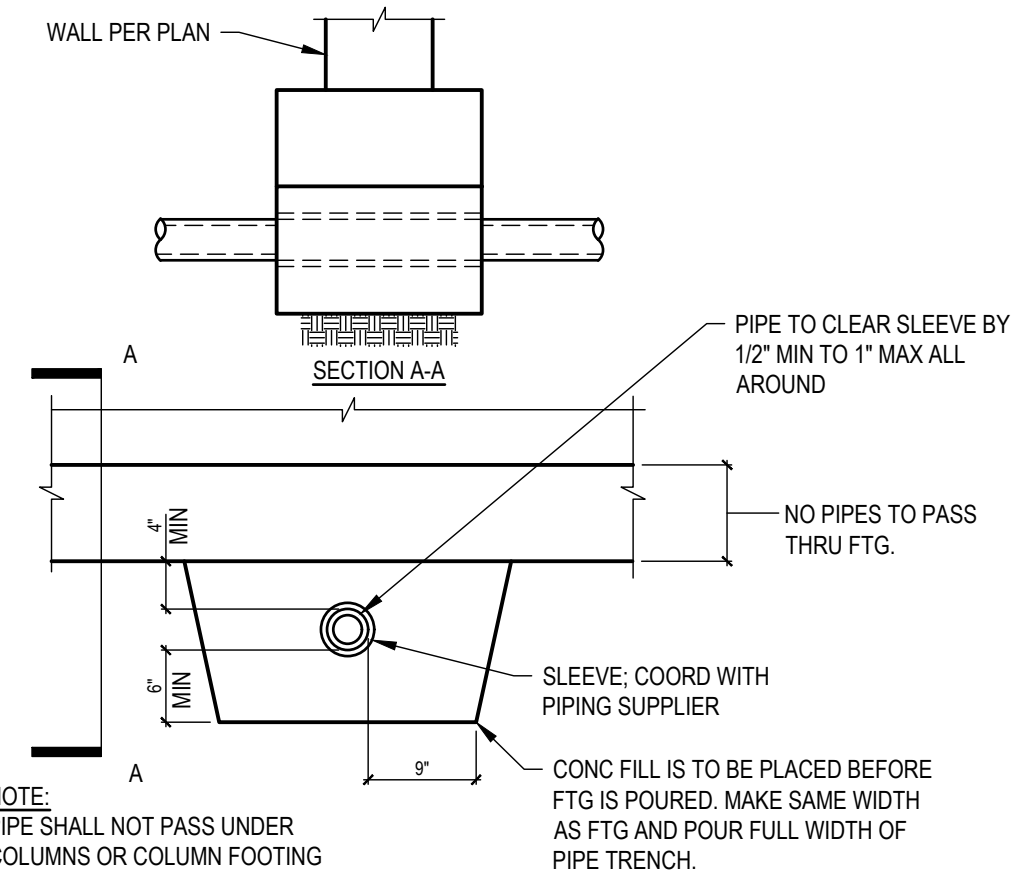
5 TYPICAL TRENCH PARALLEL TO FOUNDATION WALL



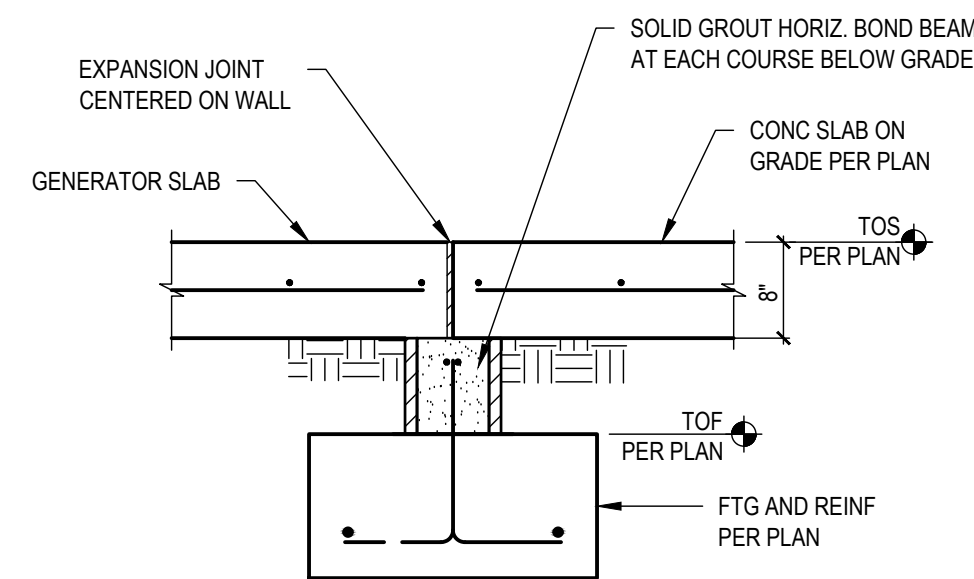
6 TYPICAL SLAB DETAIL



9 PANTOGRAPH FOUNDATION



3 TYPICAL PIPE PASSING BELOW WALL



7 TYPICAL SECTION AT DOOR OPENING



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SHEET TITLE:

STRUCTURAL DETAILS

SHEET NO:

S-502

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