SITE DEVELOPMENT PLANS FOR

FY24 GENERATOR REPLACEMENT

8000 IKEA WAY BLOOMINGTON, HENNEPIN COUNTY, MN

PROJECT TEAM:

<u>CIVIL ENGINEER</u> KIMLEY-HORN AND ASSOCIATES, INC.

Kimley» Horr

PREPARED BY: THOMAS J. LINCOLN 767 EUSTIS STREET, SUITE 100 ST. PAUL, MN 55114 TELEPHONE (651) 645-4197

STRUCTURAL ENGINEER
KIMLEY-HORN AND ASSOCIATES, INC.



PREPARED BY: NEIL GROON 767 EUSTIS STREET, SUITE 100 ST. PAUL, MN 55114 TELEPHONE (763) 251-1001

ELECTRICAL ENGINEER
KIMLEY-HORN AND ASSOCIATES, INC.

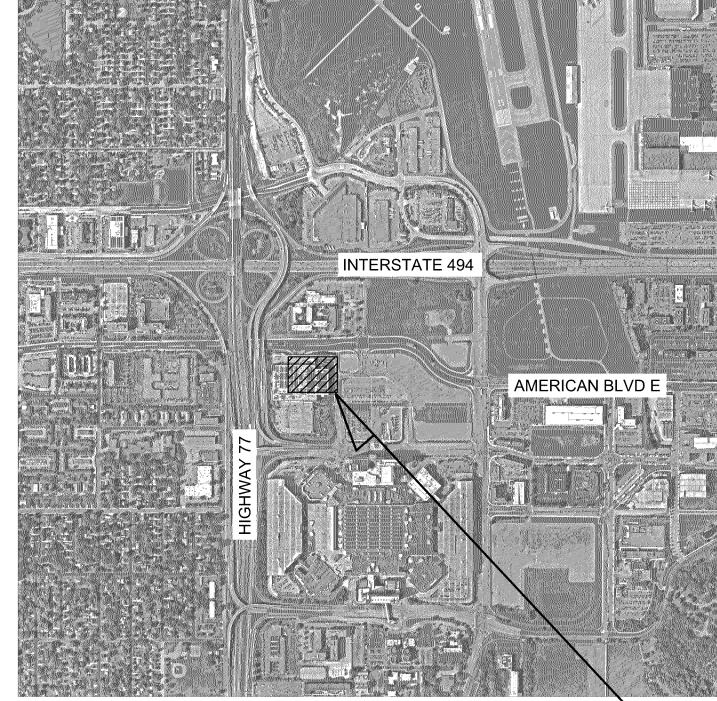


PREPARED BY: JEREMY COOAN 767 EUSTIS STREET, SUITE 100 ST. PAUL, MN 55114 TELEPHONE (612) 404-1509 OWNER / DEVELOPER IKEA MINNEAPOLIS



8000 IKEA WAY, BLOOMINGTON, MN 55425 CONTACT: ROBERT GANGNON CELL (651) 300-7924 OFFICE (952) 854-8212

SURVEYOR
EGAN, FIELD & NOVAK, INC.
475 OLD HIGHWAY 8 NW, SUITE 200
NEW BRIGHTON, MN 55112
CONTACT: ERIC ROESER, L.S.
OFFICE (612) 466-3300
CELL: (612) 466-3379
EMAIL: EROESER@EFNSURVEY.COM



VICINITY N.T.S.



SITE

NOTES:

- 1. CONTRACTOR SHALL CONFIRM THAT THE EXISTING CONDITIONS FOR THE SITE MATCH WHAT IS SHOWN ON THE DRAWINGS INCLUDED PRIOR TO CONSTRUCTION.
- IF REPRODUCED, THE SCALES SHOWN ON THESE PLANS ARE BASED ON A 22x34 SHEET.
 ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES AND/OR UTILITY SERVICES COMPANIES SHALL BE PERFORMED PRIOR TO ANNOUNCED BUILDING POSSESSION AND THE FINAL CONNECTION OF SERVICES.
- 4. ALL GENERAL CONTRACTOR WORK TO BE COMPLETED (EARTHWORK, FINAL UTILITIES, AND FINAL GRADING) BY THE MILESTONE DATE IN PROJECT DOCUMENTS.

Sheet List Table					
Sheet Number Sheet Title					
C000	COVER SHEET				
C100	GENERAL NOTES				
C200	EXISTING CONDITIONS AND REMOVALS PLAN				
C400	SITE AND GRADING PLAN				
C401	SITE DETAILS				
E000	ELECTRICAL SYMBOLS AND NOTES				
E100	EXISTING ELECTRICAL SITE PLAN				
E101	EXISTING ELECTRICAL SITE PLAN				
E200	PROPOSED SITE PLAN				
E201	PROPOSED SITE PLAN				
E300	EXISTING ONE-LINE DIAGRAM				
E301	EXISTING ONE-LINE DIAGRAM				
E400	PROPOSED ONE-LINE DIAGRAM				
E401	PROPOSED ONE-LINE DIAGRAM				
E500	ELECTRICAL DETAILS				
S1.00	STRUCTURAL GENERAL NOTES				
S1.01	STRUCTURAL EQUIPMENT PAD LAYOUT				
S1.02	STRUCTURAL EQUIPMENT PAD DETAILS				

No. REVISIONS DATE

© 2024 KIMLEY-HORN AND ASSOCIATES, INC.
767 EUSTIS STREET, SUITE 100, ST. PAUL, MN 551
PHONE: 651-645-4197
WWW.KIMLEY-HORN.COM

PL202400054 PL2024-54

OVER SHEE

Y24 GENERATOR REPLACEMENT

SHEET NUMBER

Know what's below.
Call before you dig.

GENERAL CONSTRUCTION NOTES

- THE CONTRACTOR AND SUBCONTRACTORS SHALL OBTAIN A COPY OF THE LATEST EDITION OF THE STANDARD SPECIFICATIONS OF THE LOCAL JURISDICTION AND STATE DEPARTMENT OF TRANSPORTATION AND BECOME FAMILIAR WITH THE CONTENTS PRIOR TO COMMENCING WORK. UNLESS OTHERWISE NOTED, ALL WORK SHALL CONFORM AS APPLICABLE TO THESE STANDARDS AND SPECIFICATIONS.
- PERFORM ALL WORK IN COMPLIANCE WITH APPLICABLE CITY REGULATIONS, STATE CODES, AND O.S.H.A. STANDARDS. THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING THE NECESSARY MATERIALS & LABOR TO CONSTRUCT THE FACILITY AS SHOWN AND DESCRIBED IN THE CONSTRUCTION DOCUMENTS, AND IN ACCORDANCE WITH THE SPECIFICATIONS AND REQUIREMENTS OF THE APPROPRIATE APPROVING AUTHORITIES.
- CONTRACTOR SHALL CLEAR AND GRUB ALL AREAS UNLESS OTHERWISE INDICATED, REMOVING TREES. STUMPS, ROOTS, MUCK, EXISTING PAVEMENT AND ALL OTHER DELETERIOUS MATERIAL
- THE EXISTING SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS QUALITY LEVEL "D" UNLESS OTHERWISE NOTED. THIS QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF CI/ACSE 38/02, ENTITLED STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF SUBSURFACE QUALITY DATA BY THE FHA. EXISTING UTILITIES SHOWN ARE LOCATED ACCORDING TO THE INFORMATION AVAILABLE TO THE ENGINEER AT THE TIME OF THE TOPOGRAPHIC SURVEY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR THE ENGINEER. GUARANTEE IS NOT MADE THAT ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN OR THAT THE LOCATION OF THOSE SHOWN ARE ENTIRELY ACCURATE. FINDING THE ACTUAL LOCATION OF ANY EXISTING UTILITIES IS THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE DONE BEFORE COMMENCING ANY WORK IN THE VICINITY. FURTHERMORE, THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES DUE TO THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. THE OWNER OR ENGINEER WILL ASSUME NO LIABILITY FOR ANY DAMAGES SUSTAINED OR COST INCURRED BECAUSE OF THE OPERATIONS IN THE VICINITY OF EXISTING UTILITIES OR STRUCTURES, NOR FOR TEMPORARY BRACING AND SHORING OF SAME. IF IT IS NECESSARY TO SHORE, BRACE, SWING OR RELOCATE A UTILITY, THE UTILITY COMPANY OR DEPARTMENT AFFECTED SHALL BE CONTACTED AND THEIR PERMISSION OBTAINED REGARDING THE METHOD TO USE FOR SUCH WORK.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY COMPANIES WHICH MAY HAVE BURIED OR AERIAL UTILITIES WITHIN OR NEAR THE CONSTRUCTION AREA BEFORE COMMENCING WORK. THE CONTRACTOR SHALL PROVIDE 48 HOURS MINIMUM NOTICE TO ALL UTILITY COMPANIES PRIOR TO BEGINNING CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED CONSTRUCTION PERMITS AND BONDS IF REQUIRED PRIOR TO CONSTRUCTION.
- 8. THE CONTRACTOR SHALL HAVE AVAILABLE AT THE JOB SITE AT ALL TIMES ONE COPY OF THE CONSTRUCTION DOCUMENTS INCLUDING PLANS. SPECIFICATIONS, GEOTECHNICAL REPORT AND SPECIAL CONDITIONS AND COPIES OF ANY REQUIRED CONSTRUCTION PERMITS.
- ANY DISCREPANCIES ON THE DRAWINGS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER AND ENGINEER BEFORE COMMENCING WORK, NO FIELD CHANGES OR DEVIATIONS FROM DESIGN ARE TO BE MADE WITHOUT PRIOR APPROVAL OF THE OWNER AND NOTIFICATION TO THE ENGINEER.
- 10. ALL COPIES OF COMPACTION, CONCRETE AND OTHER REQUIRED TEST RESULTS ARE TO BE SENT TO THE OWNER DIRECTLY FROM THE TESTING AGENCY.
- 11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DOCUMENTING AND MAINTAINING AS-BUILT INFORMATION WHICH SHALL BE RECORDED AS CONSTRUCTION PROGRESSES OR AT THE COMPLETION OF APPROPRIATE CONSTRUCTION INTERVALS AND SHALL BE RESPONSIBLE FOR PROVIDING AS-BUILT DRAWINGS TO THE OWNER FOR THE PURPOSE OF CERTIFICATION TO JURISDICTIONAL AGENCIES AS REQUIRED. ALL AS-BUILT DATA SHALL BE COLLECTED BY A STATE PROFESSIONAL LAND SURVEYOR WHOSE SERVICES ARE ENGAGED BY THE CONTRACTOR.
- 12. ANY WELLS DISCOVERED ON SITE THAT WILL HAVE NO USE MUST BE PLUGGED BY A LICENSED WELL DRILLING CONTRACTOR IN A MANNER APPROVED BY ALL JURISDICTIONAL AGENCIES. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY WELL ABANDONMENT PERMITS REQUIRED.
- 13. ANY WELL DISCOVERED DURING EARTH MOVING OR EXCAVATION SHALL BE REPORTED TO THE APPROPRIATE JURISDICTIONAL AGENCIES WITHIN 24 HOURS AFTER DISCOVERY IS MADE.
- 14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THAT THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS DO NOT CONFLICT WITH ANY KNOWN EXISTING OR OTHER PROPOSED IMPROVEMENTS. IF ANY CONFLICTS ARE DISCOVERED. THE CONTRACTOR SHALL NOTIFY THE OWNER PRIOR TO INSTALLATION OF ANY PORTION OF THE SITE WORK THAT WOULD BE AFFECTED. FAILURE TO NOTIFY OWNER OF AN IDENTIFIABLE CONFLICT PRIOR TO PROCEEDING WITH INSTALLATION RELIEVES OWNER OF ANY OBLIGATION TO PAY FOR A RELATED CHANGE ORDER.
- 15. SHOULD CONTRACTOR ENCOUNTER ANY DEBRIS LADEN SOIL, STRUCTURES NOT IDENTIFIED IN THE DOCUMENTS, OR OTHER SOURCE OF POTENTIAL CONTAMINATION, THEY SHALL IMMEDIATELY CONTACT THE ENGINEER AND OWNER.
- 16. CONTRACTOR SHALL NOTIFY OWNER AND/OR ENGINEER 48 HOURS IN ADVANCE OF THE FOLLOWING ACTIVITIES: PRE-CONSTRUCTION MEETING, SUBGRADE PREPARATION, BASE INSTALLATION, ASPHALT INSTALLATION, UNDERGROUND PIPING AND UTILITIES INSTALLATION, INSTALLATION OF STRUCTURES, CHECK VALVES. HYDRANTS. METERS. ETC., SIDEWALK INSTALLATION, CONNECTIONS TO WATER AND SEWER MAINS, TESTS OF UTILITIES.

THIRD PARTY SUPPLEMENTAL INFORMATION

KIMLEY-HORN ASSUMES NO LIABILITY FOR ANY ERRORS, INACCURACIES, OR OMISSIONS CONTAINED WITHIN SUPPLEMENTAL INFORMATION PROVIDED BY THIRD PARTY CONSULTANTS.

- **BOUNDARY & TOPOGRAPHIC SURVEY**
- PERFORMED BY: EGAN, FIELD & NOVAK, INC. ADDRESS: 475 OLD HIGHWAY 8 NW, SUITE 200, NEW BRIGHTON, MN 55112 PHONE: 612.466.3300
- **CONSTRUCTION TESTING**

DATED: 01/12/2024

- TEST REPORTS REQUIRED FOR CLOSE OUT INCLUDE, BUT ARE NOT LIMITED TO: DENSITY TEST REPORTS
- BACTERIOLOGICAL TESTS OF WATER SYSTEM
- PRESSURE TEST OF WATER/SEWER
- LEAK TESTS ON SEWER SYSTEM AND GREASE TRAPS
- ANY OTHER TESTING REQUIRED BY THE AGENCY/MUNICIPALITY

EROSION CONTROL NOTES

- 1. THE STORM WATER POLLUTION PREVENTION PLAN ("SWPPP") IS COMPRISED OF THE EROSION CONTROL PLAN, THE STANDARD DETAILS, THE PLAN NARRATIVE, ATTACHMENTS INCLUDED IN THE SPECIFICATIONS OF THE SWPPP, PLUS THE PERMIT AND ALL SUBSEQUENT REPORTS AND RELATED DOCUMENTS.
- 2. ALL CONTRACTORS AND SUBCONTRACTORS INVOLVED WITH STORM WATER POLLUTION PREVENTION SHALL OBTAIN A COPY OF THE STORM WATER POLLUTION PREVENTION PLAN AND THE STATE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM GENERAL PERMIT (NPDES PERMIT) AND BECOME FAMILIAR WITH THEIR CONTENTS.
- 3. BEST MANAGEMENT PRACTICES (BMP'S) AND CONTROLS SHALL CONFORM TO FEDERAL, STATE, OR LOCAL REQUIREMENTS OR MANUAL OF PRACTICE, AS APPLICABLE. THE CONTRACTOR SHALL IMPLEMENT ADDITIONAL CONTROLS AS DIRECTED BY THE PERMITTING AGENCY OR OWNER.
- 4. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR COMPLYING WITH THE REQUIREMENTS OF THE AUTHORITIES HAVING JURISDICTION, AND SHALL MAINTAIN COMPLIANCE WITH APPLICABLE LAWS AND REGULATIONS FOR THE DURATION OF CONSTRUCTION.
- THE CONTRACTOR SHALL FIELD ADJUST AND/OR PROVIDE ADDITIONAL EROSION CONTROL BMP'S AS NEEDED TO PREVENT EROSION AND OFF-SITE SEDIMENT DISCHARGE FROM THE CONSTRUCTION SITE. LOG AND RECORD ANY ADJUSTMENTS AND DEVIATIONS FROM THE APPROVED EROSION CONTROL PLANS WITHIN THE SWPPP DOCUMENTS STORED IN THE JOB SITE TRAILER.
- BMPS SHOWN SHALL BE MAINTAINED IN FULLY FUNCTIONAL CONDITION AS REQUIRED BY ALL JURISDICTIONS UNTIL NO LONGER REQUIRED FOR A COMPLETED PHASE OF WORK OR FINAL STABILIZATION OF THE SITE. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CHECKED BY A CERTIFIED PERSON AT LEAST ONCE EVERY 7 CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A 0.5-INCH OR GREATER RAINFALL EVENT.
- 7. EROSION & SEDIMENT CONTROL BMPS SHALL BE MAINTAINED IN ACCORDANCE WITH THE FOLLOWING:
- 7.1. INLET PROTECTION DEVICES AND BARRIERS SHALL BE REPAIRED OR REPLACED IF THEY SHOW SIGNS OF UNDERMINING OR DETERIORATION.
- 7.2. ALL SEEDED AREAS SHALL BE CHECKED REGULARLY TO VERIFY THAT A HEALTHY STAND OF VEGETATION IS MAINTAINED. SEEDED AREAS SHOULD BE FERTILIZED, WATERED AND RE-SEEDED AS NEEDED. REFER TO THE LANDSCAPE PLAN AND PROJECT SPECIFICATIONS.
- 7.3. SILT FENCES SHALL BE REPAIRED TO THEIR ORIGINAL CONDITIONS IF DAMAGED. SEDIMENT SHALL BE REMOVED FROM THE SILT FENCES WHEN IT REACHES ONE-THIRD THE HEIGHT OF THE SILT FENCE.
- THE ROCK CONSTRUCTION ENTRANCE(S) SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC ADDITIONS OF ROCK TOP DRESSING AS CONDITIONS DEMAND.
- 7.5. THE TEMPORARY PARKING AND STORAGE AREA SHALL BE KEPT IN GOOD CONDITION (SUITABLE FOR PARKING AND STORAGE). THIS MAY REQUIRE PERIODIC ADDITIONS OF TOP DRESSING IF THE TEMPORARY PARKING CONDITIONS DEMAND.
- 7.6. PERFORM ALL MAINTENANCE OPERATIONS IN A TIMELY MANNER BUT IN NO CASE LATER THAN 2 CALENDAR DAYS FOLLOWING THE INSPECTION.

PAVING AND STRIPING NOTES

- ALL PAVING, CONSTRUCTION, MATERIALS, AND WORKMANSHIP WITHIN JURISDICTION'S RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE LOCAL CITY OR COUNTY SPECIFICATIONS AND STANDARDS, OR THE STATE DOT SPECIFICATIONS AND STANDARDS IF NOT COVERED BY LOCAL CITY OR COUNTY REGULATIONS.
- 2. ALL SIGNS, PAVEMENT MARKINGS, AND OTHER TRAFFIC CONTROL DEVICES SHALL CONFORM TO MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D) AND CITY STANDARDS.
- 3. CONTRACTOR SHALL FURNISH ALL PAVEMENT MARKINGS FOR FIRE LANES, ROADWAY LANES, PARKING STALLS, ACCESSIBLE PARKING SYMBOLS, ACCESS AISLES, STOP BARS AND SIGNS, AND MISCELLANEOUS STRIPING WITHIN THE PARKING LOT AS SHOWN ON THE PLANS.
- 4. ALL EXPANSION JOINTS SHALL EXTEND THROUGH THE CURB.
- 5. THE MINIMUM LENGTH OF OFFSET JOINTS AT RADIUS POINTS SHALL BE 2 FEET.
- 6. ALL JOINTS, INCLUDING EXPANSION JOINTS WITH REMOVABLE TACK STRIPS, SHALL BE SEALED WITH JOINT
- 7. THE MATERIALS AND PROPERTIES OF ALL CONCRETE SHALL MEET THE APPLICABLE REQUIREMENTS IN THE A.C.I. (AMERICAN CONCRETE INSTITUTE) MANUAL OF CONCRETE PRACTICE
- 8. CONTRACTOR SHALL APPLY A SECOND COATING OVER ALL PAVEMENT MARKINGS PRIOR TO ACCEPTANCE BY OWNER FOLLOWED BY A COAT OF GLASS BEADS AS APPLICABLE PER THE PROJECT DOCUMENTS.
- 9. ANY EXISTING PAVEMENT, CURBS AND/OR SIDEWALKS DAMAGED OR REMOVED WILL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE TO THE SATISFACTION OF THE ENGINEER AND OWNER.
- 10. BEFORE PLACING PAVEMENT, CONTRACTOR SHALL VERIFY SUITABLE ACCESSIBLE ROUTES (PER A.D.A). GRADING FOR ALL SIDEWALKS AND ACCESSIBLE ROUTES INCLUDING CROSSING DRIVEWAYS SHALL CONFORM TO CURRENT ADA STATE/NATIONAL STANDARDS. IN NO CASE SHALL ACCESSIBLE RAMP SLOPES EXCEED 1 VERTICAL TO 12 HORIZONTAL. IN NO CASE SHALL SIDEWALK CROSS SLOPES EXCEED 2%. IN NO CASE SHALL LONGITUDINAL SIDEWALK SLOPES EXCEED 5%. IN NO CASE SHALL ACCESSIBLE PARKING STALLS OR AISLES EXCEED 2% (1.5% TARGET) IN ALL DIRECTIONS. SIDEWALK ACCESS TO EXTERNAL BUILDING DOORS AND GATES SHALL BE ADA COMPLIANT. CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY IF ADA CRITERIA CANNOT BE MET IN ANY LOCATION PRIOR TO PAVING. NO CONTRACTOR CHANGE ORDERS WILL BE ACCEPTED FOR A.D.A COMPLIANCE ISSUES.
- 11. MAXIMUM JOINT SPACING IS TWICE THE DEPTH OF THE CONCRETE PAVEMENT IN FEET.

GRADING AND DRAINAGE NOTES

- GENERAL CONTRACTOR AND ALL SUBCONTRACTORS SHALL VERIFY THE SUITABILITY OF ALL EXISTING AND PROPOSED SITE CONDITIONS INCLUDING GRADES AND DIMENSIONS BEFORE START OF CONSTRUCTION. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES.
- THE CONTRACTOR SHALL GRADE THE SITE TO THE ELEVATIONS INDICATED AND SHALL ADJUST BMP'S AS NECESSARY AND REGRADE WASHOUTS WHERE THEY OCCUR AFTER EVERY RAINFALL UNTIL A GRASS STAND IS WELL ESTABLISHED OR ADEQUATE STABILIZATION OCCURS.
- CONTRACTOR SHALL ENSURE THERE IS POSITIVE DRAINAGE FROM THE PROPOSED BUILDINGS SO THAT SURFACE RUNOFF WILL DRAIN BY GRAVITY TO NEW OR EXISTING DRAINAGE OUTLETS. CONTRACTOR SHALL ENSURE NO PONDING OCCURS IN PAVED AREAS AND SHALL NOTIFY ENGINEER IF ANY GRADING DISCREPANCIES ARE FOUND IN THE EXISTING AND PROPOSED GRADES PRIOR TO PLACEMENT OF PAVEMENT OR UTILITIES.
- CONTRACTOR SHALL PROTECT ALL MANHOLE COVERS, VALVE COVERS, VAULT LIDS, FIRE HYDRANTS, POWER POLES, GUY WIRES, AND TELEPHONE BOXES THAT ARE TO REMAIN IN PLACE AND UNDISTURBED DURING CONSTRUCTION. EXISTING CASTINGS AND STRUCTURES TO REMAIN SHALL BE ADJUSTED TO MATCH THE PROPOSED FINISHED GRADES.
- BACKFILL FOR UTILITY LINES SHALL BE PLACED PER DETAILS, STANDARDS, AND SPECIFICATIONS SO THAT THE UTILITY WILL BE STABLE. WHERE UTILITY LINES CROSS THE PARKING LOT, THE TOP 6 INCHES SHALL BE COMPACTED SIMILARLY TO THE REMAINDER OF THE LOT. UTILITY DITCHES SHALL BE VISUALLY INSPECTED DURING THE EXCAVATION PROCESS TO ENSURE THAT UNDESIRABLE FILL IS NOT USED.
- CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL AND REPLACEMENT OF 4" OF TOPSOIL AT COMPLETION OF WORK. ALL UNPAVED AREAS IN EXISTING RIGHTS-OF-WAY DISTURBED BY CONSTRUCTION SHALL BE REGRADED AND SODDED.
- AFTER PLACEMENT OF SUBGRADE AND PRIOR TO PLACEMENT OF PAVEMENT, CONTRACTOR SHALL TEST AND OBSERVE PAVEMENT AREAS FOR EVIDENCE OF PONDING. ALL AREAS SHALL ADEQUATELY DRAIN TOWARDS THE INTENDED STRUCTURE TO CONVEY STORM RUNOFF. CONTRACTOR SHALL IMMEDIATELY NOTIFY OWNER AND ENGINEER IF ANY DISCREPANCIES ARE DISCOVERED.
- WHERE EXISTING PAVEMENT IS INDICATED TO BE REMOVED AND REPLACED, THE CONTRACTOR SHALL SAW CUT FULL DEPTH FOR A SMOOTH AND STRAIGHT JOINT AND REPLACE THE PAVEMENT WITH THE SAME TYPE AND DEPTH OF MATERIAL AS EXISTING OR AS INDICATED.
- THE CONTRACTOR SHALL INSTALL PROTECTION OVER ALL DRAINAGE STRUCTURES FOR THE DURATION OF CONSTRUCTION AND UNTIL ACCEPTANCE OF THE PROJECT BY THE OWNER. ALL DRAINAGE STRUCTURES SHALL BE CLEANED OF DEBRIS AS REQUIRED DURING AND AT THE END OF CONSTRUCTION TO PROVIDE POSITIVE DRAINAGE FLOWS.
- 10. IF DEWATERING IS REQUIRED, THE CONTRACTOR SHALL OBTAIN ANY APPLICABLE REQUIRED PERMITS. THE CONTRACTOR IS TO COORDINATE WITH THE OWNER AND THE DESIGN ENGINEER PRIOR TO ANY EXCAVATION.
- AGENCY OR TO STATE DOT STANDARDS. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY REQUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT SHALL GOVERN.

11. FIELD DENSITY TESTS SHALL BE TAKEN AT INTERVALS IN ACCORDANCE WITH THE LOCAL JURISDICTIONAL

- 12. ALL SLOPES AND AREAS DISTURBED BY CONSTRUCTION SHALL BE GRADED AS PER PLANS. THE AREAS SHALL THEN BE SODDED OR SEEDED AS SPECIFIED IN THE PLANS, FERTILIZED, MULCHED, WATERED AND MAINTAINED UNTIL GROWTH IS ESTABLISHED TO MINIMUM COVERAGE OF 70% IN ALL AREAS. ANY AREAS DISTURBED FOR ANY REASON PRIOR TO FINAL ACCEPTANCE OF THE JOB SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. ALL EARTHEN AREAS WILL BE SODDED OR SEEDED AND MULCHED AS SHOWN ON THE LANDSCAPING PLAN.
- 13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF DUST AND DIRT RISING AND SCATTERING IN THE AIR DURING CONSTRUCTION AND SHALL PROVIDE WATER SPRINKLING OR OTHER SUITABLE METHODS OF CONTROL. THE CONTRACTOR SHALL COMPLY WITH ALL GOVERNING REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION.
- 14. SOD, WHERE CALLED FOR, MUST BE INSTALLED AND MAINTAINED ON EXPOSED SLOPES WITHIN 48 HOURS OF COMPLETING FINAL GRADING, AND AT ANY OTHER TIME AS NECESSARY, TO PREVENT EROSION, SEDIMENTATION OR TURBID DISCHARGES.
- 15. THE CONTRACTOR SHALL ENSURE THAT LANDSCAPE ISLAND PLANTING AREAS AND OTHER PLANTING AREAS ARE NOT COMPACTED AND DO NOT CONTAIN ROAD BASE MATERIALS. THE CONTRACTOR SHALL ALSO EXCAVATE AND REMOVE ALL UNDESIRABLE MATERIAL FROM ALL AREAS ON THE SITE TO BE PLANTED AND PROPERLY DISPOSED OF IN A LEGAL MANNER.
- 16. THE CONTRACTOR SHALL INSTALL ALL UNDERGROUND STORM WATER PIPING PER MANUFACTURER'S RECOMMENDATIONS AND STATE DOT SPECIFICATIONS.
- 17. PAVEMENTS SHALL BE INSTALLED IN ACCORDANCE WITH THE RECOMMENDATION OF THE SITE SPECIFIC GEOTECHNICAL EVALUATION REPORT AND CITY & STATE DOT SPECIFICATIONS.
- 18. SPOT ELEVATIONS REPRESENT THE FINISHED SURFACE GRADE OR FLOWLINE OF CURB UNLESS OTHERWISE NOTED.
- 19. LIMITS OF CONSTRUCTION ARE TO THE PROPERTY LINE UNLESS OTHERWISE SPECIFIED ON THE PLAN.
- 20. IMMEDIATELY REPORT TO THE OWNER ANY DISCREPANCIES FOUND BETWEEN ACTUAL FIELD CONDITIONS AND CONSTRUCTION DOCUMENTS.
- 21. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING AND PROTECTING EXISTING UTILITIES, AND SHALL REPAIR ALL DAMAGE TO EXISTING UTILITIES THAT OCCUR DURING CONSTRUCTION WITHOUT
- 22. BLEND NEW EARTHWORK SMOOTHLY TO TRANSITION BACK TO EXISTING GRADE.
- 23. ALL PROPOSED GRADES ONSITE SHALL BE 3:1 OR FLATTER UNLESS OTHERWISE INDICATED ON THE PLANS. ANY SLOPES STEEPER THAN 4:1 REQUIRE EROSION AND SEDIMENT CONTROL BLANKET.
- 24. ADHERE TO ALL TERMS AND CONDITIONS AS NECESSARY IN THE GENERAL N.P.D.E.S. PERMIT AND STORMWATER POLLUTION PREVENTION PLAN (SWPPP) FOR STORMWATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITIES.
- 25. ADJUST AND/OR CUT EXISTING PAVEMENT AS NECESSARY TO ASSURE A SMOOTH FIT AND CONTINUOUS

WATER STORM SEWER & SANITARY SEWER NOTES

- THE CONTRACTOR SHALL CONSTRUCT GRAVITY SEWER LATERALS, MANHOLES, GRAVITY SEWER LINES, AND DOMESTIC WATER AND FIRE PROTECTION SYSTEM AS SHOWN ON THESE PLANS. THE CONTRACTOR SHALL FURNISH ALL NECESSARY MATERIALS, EQUIPMENT, MACHINERY, TOOLS, MEANS OF TRANSPORTATION AND LABOR NECESSARY TO COMPLETE THE WORK IN FULL AND COMPLETE ACCORDANCE WITH THE SHOWN, DESCRIBED AND REASONABLY INTENDED REQUIREMENTS OF THE CONTRACT DOCUMENTS AND JURISDICTIONAL AGENCY REQUIREMENTS. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY REQUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT SHALL GOVERN.
- ALL EXISTING UNDERGROUND UTILITY LOCATIONS SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS FOR UTILITY LOCATION AND COORDINATION IN ACCORDANCE WITH THE NOTES CONTAINED IN THE GENERAL CONSTRUCTION SECTION OF THIS SHEET.
- 3. THE CONTRACTOR SHALL RESTORE ALL DISTURBED VEGETATION IN KIND, UNLESS SHOWN OTHERWISE.
- DEFLECTION OF PIPE JOINTS AND CURVATURE OF PIPE SHALL NOT EXCEED THE MANUFACTURER'S SPECIFICATIONS. SECURELY CLOSE ALL OPEN ENDS OF PIPE AND FITTINGS WITH A WATERTIGHT PLUG WHEN WORK IS NOT IN PROGRESS. THE INTERIOR OF ALL PIPES SHALL BE CLEAN AND JOINT SURFACES WIPED CLEAN AND DRY AFTER THE PIPE HAS BEEN LOWERED INTO THE TRENCH. VALVES SHALL BE PLUMB AND LOCATED ACCORDING TO THE PLANS.
- ALL PIPE AND FITTINGS SHALL BE CAREFULLY STORED FOLLOWING MANUFACTURER'S RECOMMENDATIONS. CARE SHALL BE TAKEN TO AVOID DAMAGE TO THE COATING OR LINING IN ANY D.I. PIPE FITTINGS. ANY PIPE OR FITTING WHICH IS DAMAGED OR WHICH HAS FLAWS OR IMPERFECTIONS WHICH, IN THE OPINION OF THE ENGINEER OR OWNER, RENDERS IT UNFIT FOR USE, SHALL NOT BE USED. ANY PIPE NOT SATISFACTORY FOR USE SHALL BE CLEARLY MARKED AND IMMEDIATELY REMOVED FROM THE JOB SITE, AND SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- 6. WATER FOR FIRE FIGHTING SHALL BE MADE AVAILABLE FOR USE BY THE CONTRACTOR PRIOR TO COMBUSTIBLES BEING BROUGHT ON SITE.
- ALL UTILITY AND STORM DRAIN TRENCHES LOCATED UNDER AREAS TO RECEIVE PAVING SHALL BE COMPLETELY BACK FILLED IN ACCORDANCE WITH THE GOVERNING JURISDICTIONAL AGENCY'S SPECIFICATIONS. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY REQUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT SHALL GOVERN.
- 8. UNDERGROUND UTILITY LINES SHALL BE SURVEYED BY A STATE LICENSED PROFESSIONAL LAND SURVEYOR PRIOR TO BACK FILLING.
- CONTRACTOR SHALL PERFORM, AT THEIR OWN EXPENSE, ANY AND ALL TESTS REQUIRED BY THE SPECIFICATIONS AND/OR ANY AGENCY HAVING JURISDICTION. THESE TESTS MAY INCLUDE, BUT MAY NOT BE LIMITED TO, INFILTRATION AND EXFILTRATION, TELEVISION INSPECTION AND A MANDREL TEST ON GRAVITY SEWER. A COPY OF THE TEST RESULTS SHALL BE PROVIDED TO THE UTILITY PROVIDER, OWNER AND JURISDICTIONAL AGENCY AS REQUIRED.
- 10. BETWEEN WATER AND SEWER MANHOLES AND PIPES, CONTRACTOR SHALL PROVIDE FOR A MINIMUM HORIZONTAL CLEARANCE OF 10-FEET AND A MINIMUM VERTICAL SEPARATION OF 18-INCHES.
- 11. IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO REPAIR AND/OR REPLACE THE EXISTING STRUCTURE AS NECESSARY TO RETURN IT TO EXISTING CONDITIONS OR BETTER.
- 12. ALL STORM PIPE ENTERING STRUCTURES SHALL BE GASKETED AND/OR GROUTED TO ASSURE CONNECTION AT STRUCTURE IS WATERTIGHT UNLESS OTHERWISE STATED BY CITY AND STATE DESIGN STANDARDS AND SPECIFICATIONS.
- SEWER MANHOLES IN PAVED AREAS SHALL BE FLUSH WITH PAVEMENT, AND SHALL HAVE TRAFFIC BEARING RING & COVERS. MANHOLES IN UNPAVED AREAS SHALL BE 6" ABOVE FINISH GRADE. LIDS SHALL BE LABELED "STORM SEWER". EXISTING CASTINGS AND STRUCTURES WITHIN PROJECT LIMITS SHALL BE ADJUSTED TO MEET THESE CONDITIONS AND THE PROPOSED FINISHED GRADE.

13. UNLESS OTHERWISE STATED IN CITY AND STATE DESIGN STANDARDS AND SPECIFICATIONS, ALL STORM

- 14. TOPOGRAPHIC INFORMATION IS TAKEN FROM A TOPOGRAPHIC SURVEY BY LAND SURVEYORS. IF THE CONTRACTOR DOES NOT ACCEPT EXISTING TOPOGRAPHY AS SHOWN ON THE PLANS, WITHOUT EXCEPTION, THEN THE CONTRACTOR SHALL SUPPLY, AT THEIR EXPENSE, A TOPOGRAPHIC SURVEY BY A REGISTERED LAND SURVEYOR TO THE OWNER FOR REVIEW.
- 15. CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE GOVERNING CODES AND BE CONSTRUCTED TO
- 16. ALL STORM STRUCTURES SHALL HAVE A SMOOTH UNIFORM POURED MORTAR FROM INVERT IN TO INVERT
- 17. ROOF DRAINS SHALL BE CONNECTED TO STORM SEWER BY PREFABRICATED WYES OR AT STORM STRUCTURES. ROOF DRAINS AND TRUCK WELL DRAIN SHALL RUN AT A MINIMUM 2.0% SLOPE, UNLESS NOTED OTHERWISE, AND TIE IN AT THE CENTERLINE OF THE STORM MAIN
- 18. PROVIDE INSULATION OF UNDERGROUND ROOF DRAINS AND SANITARY SEWER SERVICES IF ADEQUATE FROST DEPTH CANNOT BE PROVIDED.
- 19. THE CONTRACTOR SHALL PROTECT EXISTING UNDERGROUND UTILITIES AND APPURTENANCES THAT ARE TO REMAIN FROM DAMAGE DURING CONSTRUCTION OPERATIONS.
- 20. THE LOCATION OF EXISTING UTILITIES, STORM DRAINAGE STRUCTURES AND OTHER ABOVE AND BELOW-GRADE IMPROVEMENTS ARE APPROXIMATE AS SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATION, SIZE AND INVERT ELEVATIONS OF EACH PRIOR TO THE START OF CONSTRUCTION.
- 21. A MINIMUM SEPARATION OF 5-FEET IS REQUIRED BETWEEN UNDERGROUND UTILITIES AND TREES UNLESS A ROOT BARRIER IS UTILIZED.
- 22. GAS, PHONE AND ELECTRIC SERVICES SHOWN FOR INFORMATIONAL PURPOSES ONLY. DRY UTILITY COMPANIES MAY ALTER THE DESIGN LAYOUT DURING THEIR REVIEW. CONTRACTOR TO COORDINATE FINAL DESIGN AND INSTALLATION WITH UTILITY COMPANIES.
- 23. COORDINATE UTILITY INSTALLATION WITH IRRIGATION DESIGN AND INSTALLATION.

ELECTRICAL & COMMUNICATIONS SERVICES AND SITE LIGHTING LAYOUT.

PREPARATION SPECIFICATIONS.

- 24. ALL DIMENSIONS ARE TO FLOW LINE OF CURB UNLESS OTHERWISE NOTED. PERIMETER WALL DIMENSIONS ARE TO INSIDE WALL FACE. REFERENCE ARCHITECTURAL PLANS FOR EXACT WALL WIDTH AND
- 25. REFERENCE AS-BUILT PLANS (BY OTHERS) FOR EXACT BUILDING DIMENSIONS, MATERIALS SPECIFICATIONS.
- 26. REFERENCE ELECTRICAL PLANS (BY OTHERS) FOR MECHANICAL EQUIPMENT DIMENSIONS AND

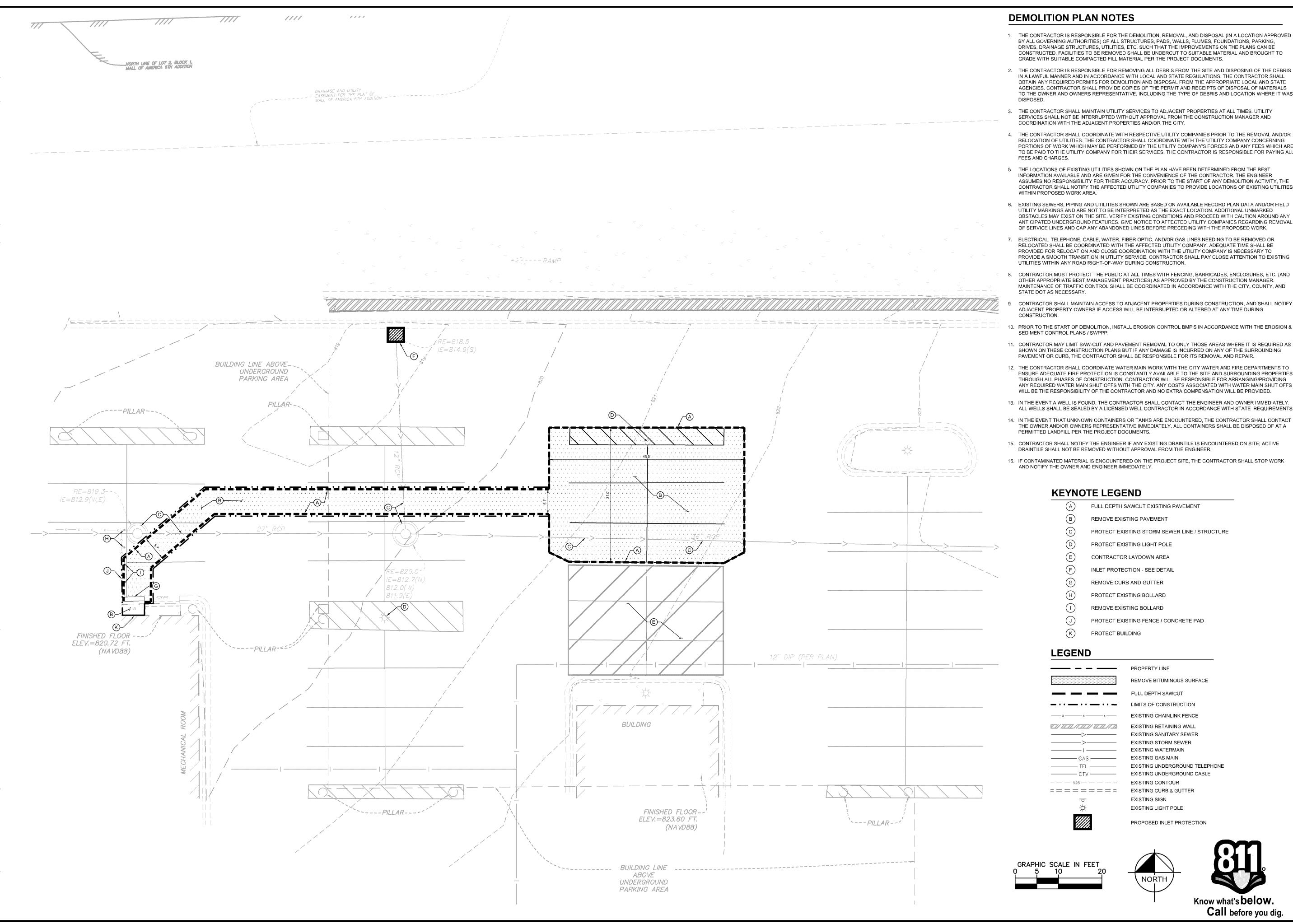
27. CONTRACTOR SHALL REFERENCE STRUCTURAL PLANS (BY OTHERS) FOR FOOTING AND FOUNDATION PAD

28. CONTRACTOR SHALL REFERENCE ELECTRICAL PLANS (BY OTHERS) FOR ROUTING OF PROPOSED

0

SHEET NUMBER

C100



DEMOLITION PLAN NOTES

- 1. THE CONTRACTOR IS RESPONSIBLE FOR THE DEMOLITION, REMOVAL, AND DISPOSAL (IN A LOCATION APPROVED BY ALL GOVERNING AUTHORITIES) OF ALL STRUCTURES, PADS, WALLS, FLUMES, FOUNDATIONS, PARKING, DRIVES, DRAINAGE STRUCTURES, UTILITIES, ETC. SUCH THAT THE IMPROVEMENTS ON THE PLANS CAN BE CONSTRUCTED. FACILITIES TO BE REMOVED SHALL BE UNDERCUT TO SUITABLE MATERIAL AND BROUGHT TO GRADE WITH SUITABLE COMPACTED FILL MATERIAL PER THE PROJECT DOCUMENTS.
- 2. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL DEBRIS FROM THE SITE AND DISPOSING OF THE DEBRIS IN A LAWFUL MANNER AND IN ACCORDANCE WITH LOCAL AND STATE REGULATIONS. THE CONTRACTOR SHALL OBTAIN ANY REQUIRED PERMITS FOR DEMOLITION AND DISPOSAL FROM THE APPROPRIATE LOCAL AND STATE AGENCIES. CONTRACTOR SHALL PROVIDE COPIES OF THE PERMIT AND RECEIPTS OF DISPOSAL OF MATERIALS TO THE OWNER AND OWNERS REPRESENTATIVE, INCLUDING THE TYPE OF DEBRIS AND LOCATION WHERE IT WAS
- 3. THE CONTRACTOR SHALL MAINTAIN UTILITY SERVICES TO ADJACENT PROPERTIES AT ALL TIMES. UTILITY SERVICES SHALL NOT BE INTERRUPTED WITHOUT APPROVAL FROM THE CONSTRUCTION MANAGER AND COORDINATION WITH THE ADJACENT PROPERTIES AND/OR THE CITY.
- 4. THE CONTRACTOR SHALL COORDINATE WITH RESPECTIVE UTILITY COMPANIES PRIOR TO THE REMOVAL AND/OR RELOCATION OF UTILITIES. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANY CONCERNING PORTIONS OF WORK WHICH MAY BE PERFORMED BY THE UTILITY COMPANY'S FORCES AND ANY FEES WHICH ARE TO BE PAID TO THE UTILITY COMPANY FOR THEIR SERVICES. THE CONTRACTOR IS RESPONSIBLE FOR PAYING ALL FEES AND CHARGES.
- 5. THE LOCATIONS OF EXISTING UTILITIES SHOWN ON THE PLAN HAVE BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE AND ARE GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THEIR ACCURACY. PRIOR TO THE START OF ANY DEMOLITION ACTIVITY, THE CONTRACTOR SHALL NOTIFY THE AFFECTED UTILITY COMPANIES TO PROVIDE LOCATIONS OF EXISTING UTILITIES WITHIN PROPOSED WORK AREA.
- 6. EXISTING SEWERS, PIPING AND UTILITIES SHOWN ARE BASED ON AVAILABLE RECORD PLAN DATA AND/OR FIELD UTILITY MARKINGS AND ARE NOT TO BE INTERPRETED AS THE EXACT LOCATION. ADDITIONAL UNMARKED OBSTACLES MAY EXIST ON THE SITE. VERIFY EXISTING CONDITIONS AND PROCEED WITH CAUTION AROUND ANY ANTICIPATED UNDERGROUND FEATURES. GIVE NOTICE TO AFFECTED UTILITY COMPANIES REGARDING REMOVAL OF SERVICE LINES AND CAP ANY ABANDONED LINES BEFORE PRECEDING WITH THE PROPOSED WORK.
- ELECTRICAL, TELEPHONE, CABLE, WATER, FIBER OPTIC, AND/OR GAS LINES NEEDING TO BE REMOVED OR RELOCATED SHALL BE COORDINATED WITH THE AFFECTED UTILITY COMPANY. ADEQUATE TIME SHALL BE PROVIDED FOR RELOCATION AND CLOSE COORDINATION WITH THE UTILITY COMPANY IS NECESSARY TO PROVIDE A SMOOTH TRANSITION IN UTILITY SERVICE. CONTRACTOR SHALL PAY CLOSE ATTENTION TO EXISTING UTILITIES WITHIN ANY ROAD RIGHT-OF-WAY DURING CONSTRUCTION.
- CONTRACTOR MUST PROTECT THE PUBLIC AT ALL TIMES WITH FENCING, BARRICADES, ENCLOSURES, ETC. (AND OTHER APPROPRIATE BEST MANAGEMENT PRACTICES) AS APPROVED BY THE CONSTRUCTION MANAGER. MAINTENANCE OF TRAFFIC CONTROL SHALL BE COORDINATED IN ACCORDANCE WITH THE CITY, COUNTY, AND STATE DOT AS NECESSARY.
- CONTRACTOR SHALL MAINTAIN ACCESS TO ADJACENT PROPERTIES DURING CONSTRUCTION, AND SHALL NOTIFY ADJACENT PROPERTY OWNERS IF ACCESS WILL BE INTERRUPTED OR ALTERED AT ANY TIME DURING
- 10. PRIOR TO THE START OF DEMOLITION, INSTALL EROSION CONTROL BMP'S IN ACCORDANCE WITH THE EROSION & SEDIMENT CONTROL PLANS / SWPPP.
- SHOWN ON THESE CONSTRUCTION PLANS BUT IF ANY DAMAGE IS INCURRED ON ANY OF THE SURROUNDING PAVEMENT OR CURB, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ITS REMOVAL AND REPAIR. 12. THE CONTRACTOR SHALL COORDINATE WATER MAIN WORK WITH THE CITY WATER AND FIRE DEPARTMENTS TO
- ENSURE ADEQUATE FIRE PROTECTION IS CONSTANTLY AVAILABLE TO THE SITE AND SURROUNDING PROPERTIES THROUGH ALL PHASES OF CONSTRUCTION. CONTRACTOR WILL BE RESPONSIBLE FOR ARRANGING/PROVIDING ANY REQUIRED WATER MAIN SHUT OFFS WITH THE CITY. ANY COSTS ASSOCIATED WITH WATER MAIN SHUT OFFS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AND NO EXTRA COMPENSATION WILL BE PROVIDED.
- 13. IN THE EVENT A WELL IS FOUND, THE CONTRACTOR SHALL CONTACT THE ENGINEER AND OWNER IMMEDIATELY. ALL WELLS SHALL BE SEALED BY A LICENSED WELL CONTRACTOR IN ACCORDANCE WITH STATE REQUIREMENTS.
- 14. IN THE EVENT THAT UNKNOWN CONTAINERS OR TANKS ARE ENCOUNTERED, THE CONTRACTOR SHALL CONTACT THE OWNER AND/OR OWNERS REPRESENTATIVE IMMEDIATELY. ALL CONTAINERS SHALL BE DISPOSED OF AT A PERMITTED LANDFILL PER THE PROJECT DOCUMENTS.
- 15. CONTRACTOR SHALL NOTIFY THE ENGINEER IF ANY EXISTING DRAINTILE IS ENCOUNTERED ON SITE; ACTIVE DRAINTILE SHALL NOT BE REMOVED WITHOUT APPROVAL FROM THE ENGINEER.
- 16. IF CONTAMINATED MATERIAL IS ENCOUNTERED ON THE PROJECT SITE, THE CONTRACTOR SHALL STOP WORK AND NOTIFY THE OWNER AND ENGINEER IMMEDIATELY.

KEYNOTE LEGEND

- FULL DEPTH SAWCUT EXISTING PAVEMENT
- REMOVE EXISTING PAVEMENT
- PROTECT EXISTING STORM SEWER LINE / STRUCTURE
- PROTECT EXISTING LIGHT POLE
- CONTRACTOR LAYDOWN AREA
- INLET PROTECTION SEE DETAIL

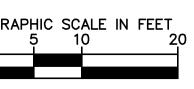
REMOVE CURB AND GUTTER

REMOVE EXISTING BOLLARD

- PROTECT EXISTING BOLLARD
- PROTECT EXISTING FENCE / CONCRETE PAD
- PROTECT BUILDING

LEGEND

	PROPERTY LINE
	REMOVE BITUMINOUS SURFACE
	FULL DEPTH SAWCUT
	LIMITS OF CONSTRUCTION
xxx	EXISTING CHAINLINK FENCE
Edd Handson Franklind Haddel Handson Franklind	EXISTING RETAINING WALL
>	EXISTING SANITARY SEWER
>	EXISTING STORM SEWER
	EXISTING WATERMAIN
———— GAS ————	EXISTING GAS MAIN
——— TEL ———	EXISTING UNDERGROUND TELEPHONI
CTV	EXISTING UNDERGROUND CABLE
928	EXISTING CONTOUR
========	EXISTING CURB & GUTTER
0	EXISTING SIGN
☆	EXISTING LIGHT POLE

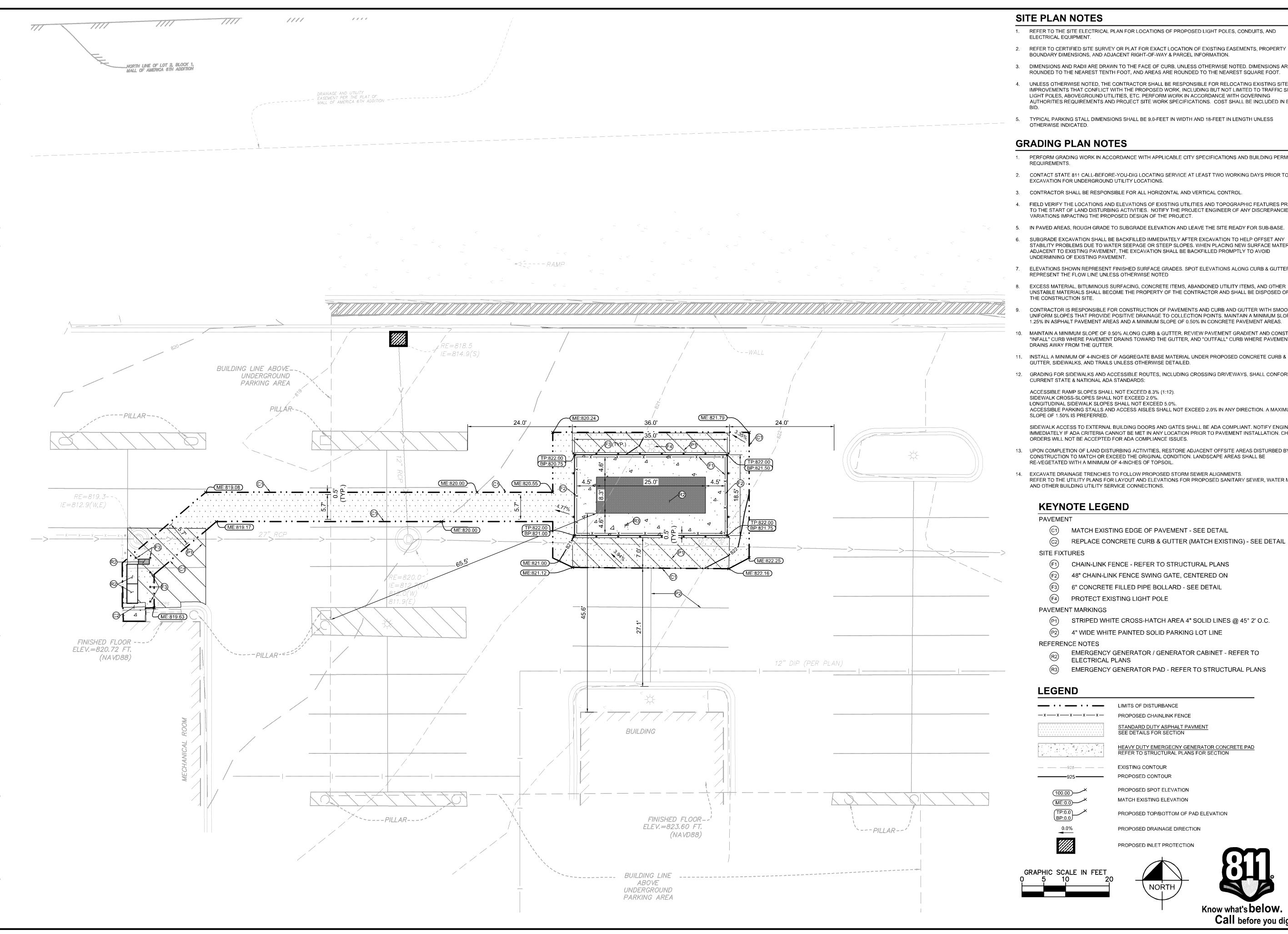




PROPOSED INLET PROTECTION



MOM



- REFER TO THE SITE ELECTRICAL PLAN FOR LOCATIONS OF PROPOSED LIGHT POLES, CONDUITS, AND
- 2. REFER TO CERTIFIED SITE SURVEY OR PLAT FOR EXACT LOCATION OF EXISTING EASEMENTS, PROPERTY
- BOUNDARY DIMENSIONS, AND ADJACENT RIGHT-OF-WAY & PARCEL INFORMATION.
- DIMENSIONS AND RADII ARE DRAWN TO THE FACE OF CURB, UNLESS OTHERWISE NOTED. DIMENSIONS ARE ROUNDED TO THE NEAREST TENTH FOOT, AND AREAS ARE ROUNDED TO THE NEAREST SQUARE FOOT.
- 4. UNLESS OTHERWISE NOTED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR RELOCATING EXISTING SITE IMPROVEMENTS THAT CONFLICT WITH THE PROPOSED WORK, INCLUDING BUT NOT LIMITED TO TRAFFIC SIGNS, LIGHT POLES, ABOVEGROUND UTILITIES, ETC. PERFORM WORK IN ACCORDANCE WITH GOVERNING AUTHORITIES REQUIREMENTS AND PROJECT SITE WORK SPECIFICATIONS. COST SHALL BE INCLUDED IN BASE
- 5. TYPICAL PARKING STALL DIMENSIONS SHALL BE 9.0-FEET IN WIDTH AND 18-FEET IN LENGTH UNLESS

GRADING PLAN NOTES

- 1. PERFORM GRADING WORK IN ACCORDANCE WITH APPLICABLE CITY SPECIFICATIONS AND BUILDING PERMIT
- 2. CONTACT STATE 811 CALL-BEFORE-YOU-DIG LOCATING SERVICE AT LEAST TWO WORKING DAYS PRIOR TO EXCAVATION FOR UNDERGROUND UTILITY LOCATIONS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL HORIZONTAL AND VERTICAL CONTROL.
- 4. FIELD VERIFY THE LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES AND TOPOGRAPHIC FEATURES PRIOR TO THE START OF LAND DISTURBING ACTIVITIES. NOTIFY THE PROJECT ENGINEER OF ANY DISCREPANCIES OR VARIATIONS IMPACTING THE PROPOSED DESIGN OF THE PROJECT.
- 5. IN PAVED AREAS, ROUGH GRADE TO SUBGRADE ELEVATION AND LEAVE THE SITE READY FOR SUB-BASE.
- SUBGRADE EXCAVATION SHALL BE BACKFILLED IMMEDIATELY AFTER EXCAVATION TO HELP OFFSET ANY STABILITY PROBLEMS DUE TO WATER SEEPAGE OR STEEP SLOPES. WHEN PLACING NEW SURFACE MATERIAL ADJACENT TO EXISTING PAVEMENT, THE EXCAVATION SHALL BE BACKFILLED PROMPTLY TO AVOID
- ELEVATIONS SHOWN REPRESENT FINISHED SURFACE GRADES. SPOT ELEVATIONS ALONG CURB & GUTTER REPRESENT THE FLOW LINE UNLESS OTHERWISE NOTED
- EXCESS MATERIAL, BITUMINOUS SURFACING, CONCRETE ITEMS, ABANDONED UTILITY ITEMS, AND OTHER UNSTABLE MATERIALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF OFF THE CONSTRUCTION SITE.
- CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION OF PAVEMENTS AND CURB AND GUTTER WITH SMOOTH UNIFORM SLOPES THAT PROVIDE POSITIVE DRAINAGE TO COLLECTION POINTS. MAINTAIN A MINIMUM SLOPE OF 1.25% IN ASPHALT PAVEMENT AREAS AND A MINIMUM SLOPE OF 0.50% IN CONCRETE PAVEMENT AREAS.
- MAINTAIN A MINIMUM SLOPE OF 0.50% ALONG CURB & GUTTER. REVIEW PAVEMENT GRADIENT AND CONSTRUCT "INFALL" CURB WHERE PAVEMENT DRAINS TOWARD THE GUTTER, AND "OUTFALL" CURB WHERE PAVEMENT DRAINS AWAY FROM THE GUTTER.
- GUTTER, SIDEWALKS, AND TRAILS UNLESS OTHERWISE DETAILED.
- 12. GRADING FOR SIDEWALKS AND ACCESSIBLE ROUTES, INCLUDING CROSSING DRIVEWAYS, SHALL CONFORM TO CURRENT STATE & NATIONAL ADA STANDARDS:

ACCESSIBLE RAMP SLOPES SHALL NOT EXCEED 8.3% (1:12). SIDEWALK CROSS-SLOPES SHALL NOT EXCEED 2.0%.

LONGITUDINAL SIDEWALK SLOPES SHALL NOT EXCEED 5.0%. ACCESSIBLE PARKING STALLS AND ACCESS AISLES SHALL NOT EXCEED 2.0% IN ANY DIRECTION. A MAXIMUM

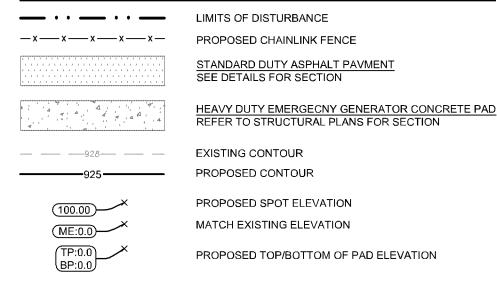
SIDEWALK ACCESS TO EXTERNAL BUILDING DOORS AND GATES SHALL BE ADA COMPLIANT. NOTIFY ENGINEER IMMEDIATELY IF ADA CRITERIA CANNOT BE MET IN ANY LOCATION PRIOR TO PAVEMENT INSTALLATION. CHANGE ORDERS WILL NOT BE ACCEPTED FOR ADA COMPLIANCE ISSUES.

- 13. UPON COMPLETION OF LAND DISTURBING ACTIVITIES, RESTORE ADJACENT OFFSITE AREAS DISTURBED BY CONSTRUCTION TO MATCH OR EXCEED THE ORIGINAL CONDITION. LANDSCAPE AREAS SHALL BE RE-VEGETATED WITH A MINIMUM OF 4-INCHES OF TOPSOIL.
- 14. EXCAVATE DRAINAGE TRENCHES TO FOLLOW PROPOSED STORM SEWER ALIGNMENTS. REFER TO THE UTILITY PLANS FOR LAYOUT AND ELEVATIONS FOR PROPOSED SANITARY SEWER, WATER MAIN, AND OTHER BUILDING UTILITY SERVICE CONNECTIONS.

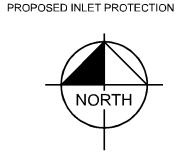
KEYNOTE LEGEND

- MATCH EXISTING EDGE OF PAVEMENT SEE DETAIL
- REPLACE CONCRETE CURB & GUTTER (MATCH EXISTING) SEE DETAIL
- CHAIN-LINK FENCE REFER TO STRUCTURAL PLANS
- 48" CHAIN-LINK FENCE SWING GATE, CENTERED ON
- 6" CONCRETE FILLED PIPE BOLLARD SEE DETAIL
- PROTECT EXISTING LIGHT POLE
- PAVEMENT MARKINGS
 - STRIPED WHITE CROSS-HATCH AREA 4" SOLID LINES @ 45° 2' O.C.
- (P2) 4" WIDE WHITE PAINTED SOLID PARKING LOT LINE
- REFERENCE NOTES
- EMERGENCY GENERATOR / GENERATOR CABINET REFER TO ELECTRICAL PLANS
- EMERGENCY GENERATOR PAD REFER TO STRUCTURAL PLANS

LEGEND



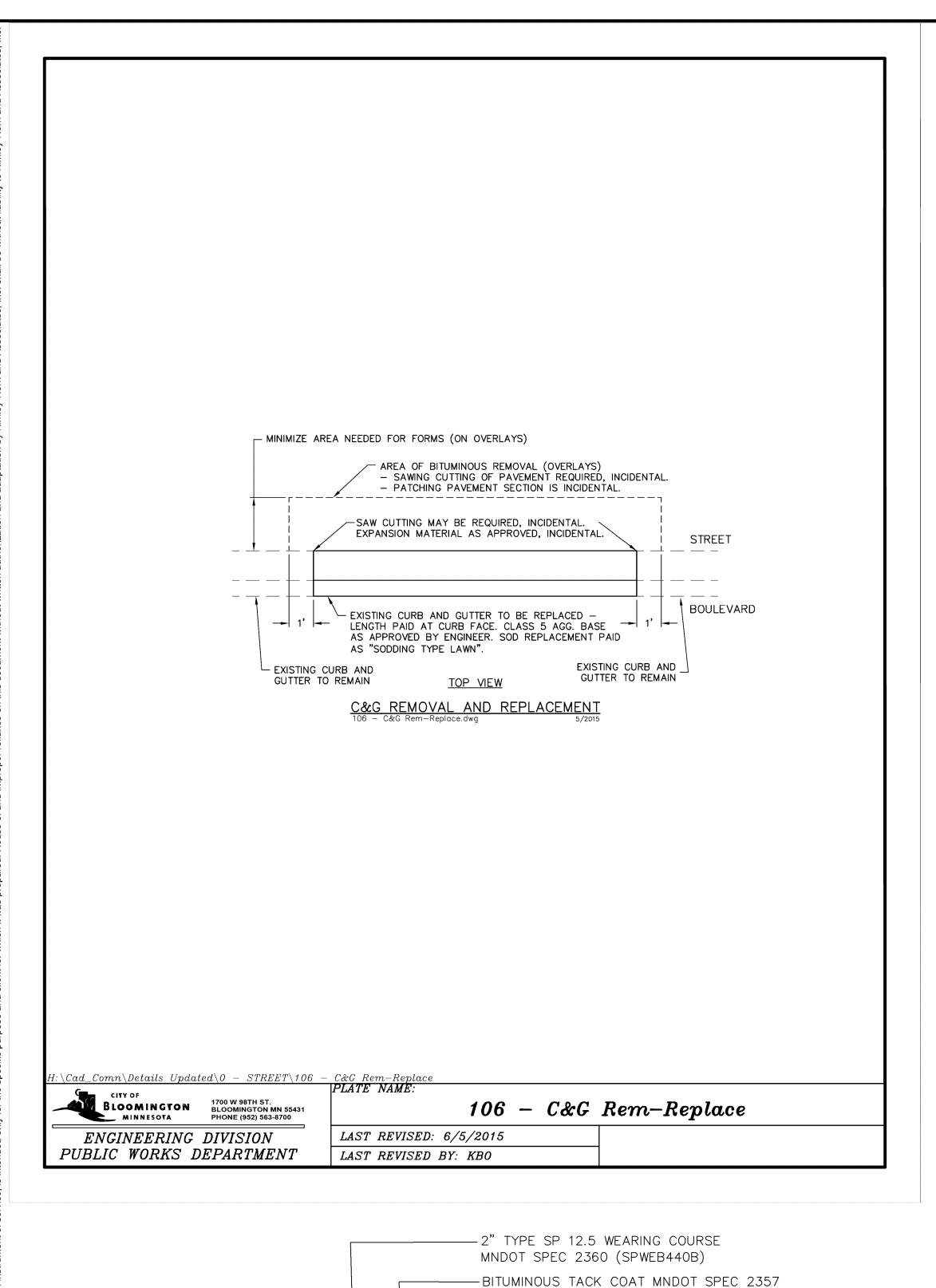




PROPOSED DRAINAGE DIRECTION



SITE



- 2" TYPE SP 12.5 WEARING COURSE MNDOT SPEC 2360 (SPWEB440B)

-COMPACT TOP 3 FEET OF SUBGRADE TO A MINIMUM

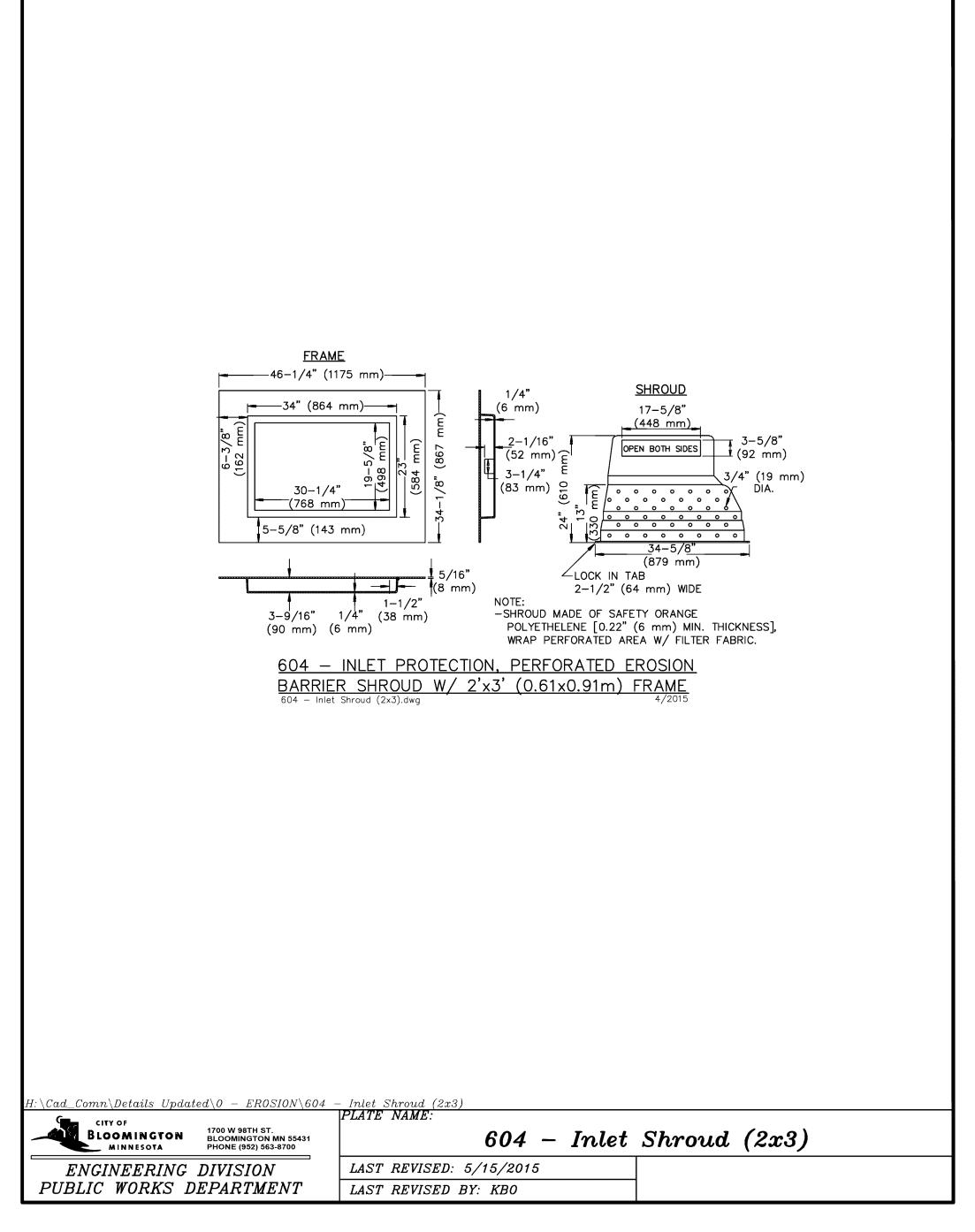
MOISTURE CONTENT. BELOW TOP 3', COMPACT TO A

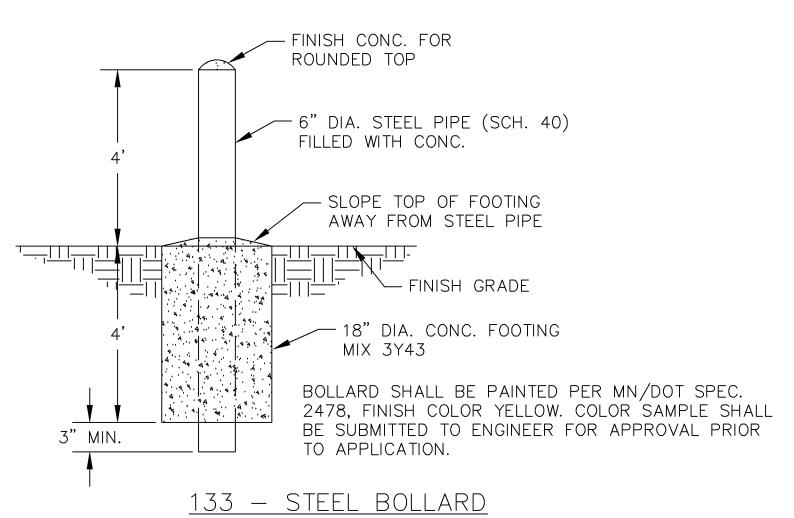
MOISTURE CONTENT WITHIN +/- 2% OF OPTIMUM

MINIMUM OF 90% OF MODIFIED PROCTOR DENSITY.

OF 95% OF MODIFIED PROCTOR DENSITY WITH

6" CLASS 5 AGGREGATE BASE (CV)
MNDOT SPEC 2211





COURTESY OF CITY OF BLOOMINGTON

TYPICAL CROSS HATCHING MARKINGS

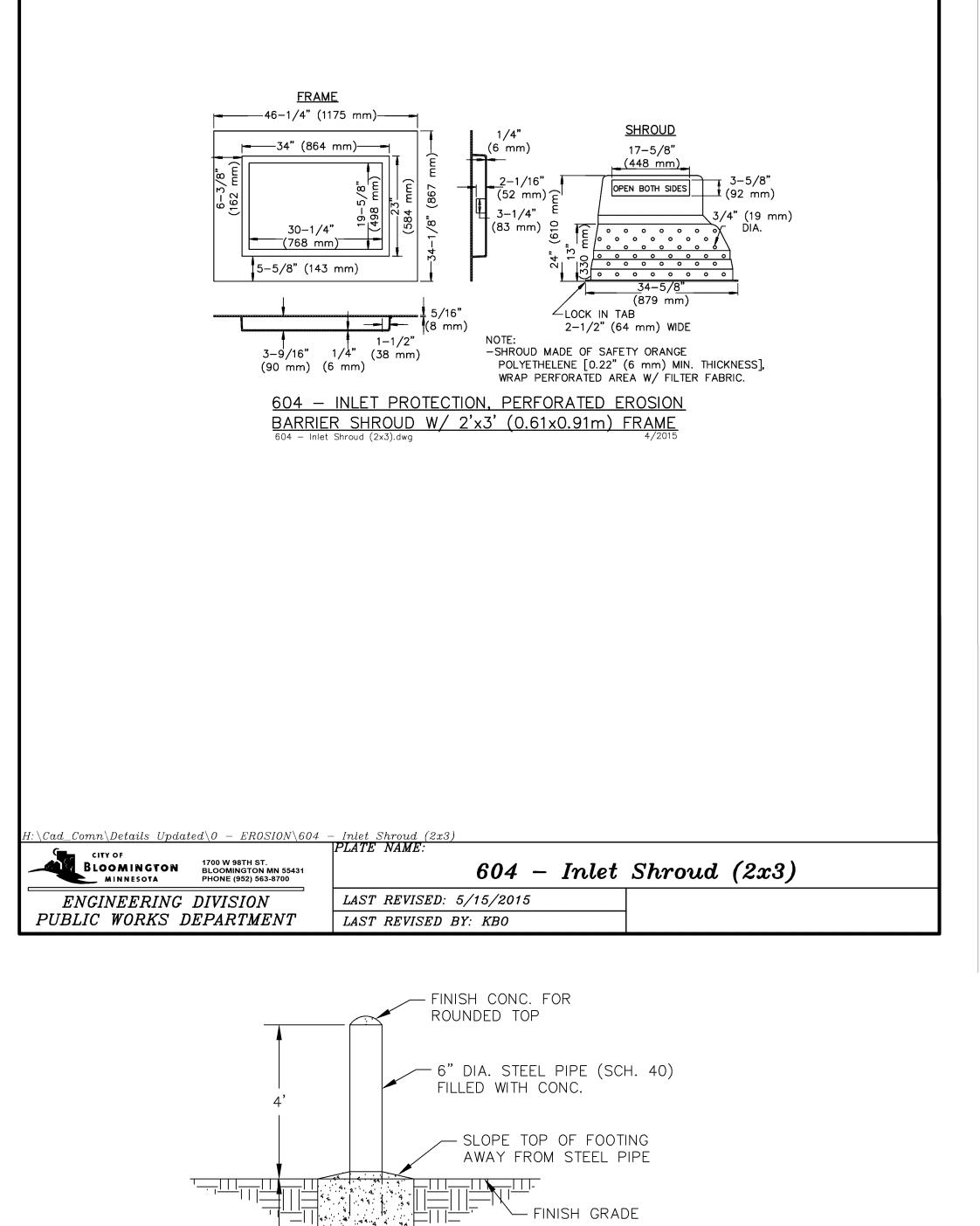
4" SOLID LINE WHITE (TYP.) 1

MINNEAPOLIS Y24 GENERATOR REPLACEMENT

DETAIL

SHEET NUMBER C401

STANDARD DUTY BITUMINOUS TYPICAL SECTION





NOTE: TYPICAL PAVEMENT SECTIONS SHALL BE

VERIFIED IN THE FIELD BY

THE CONTRACTOR

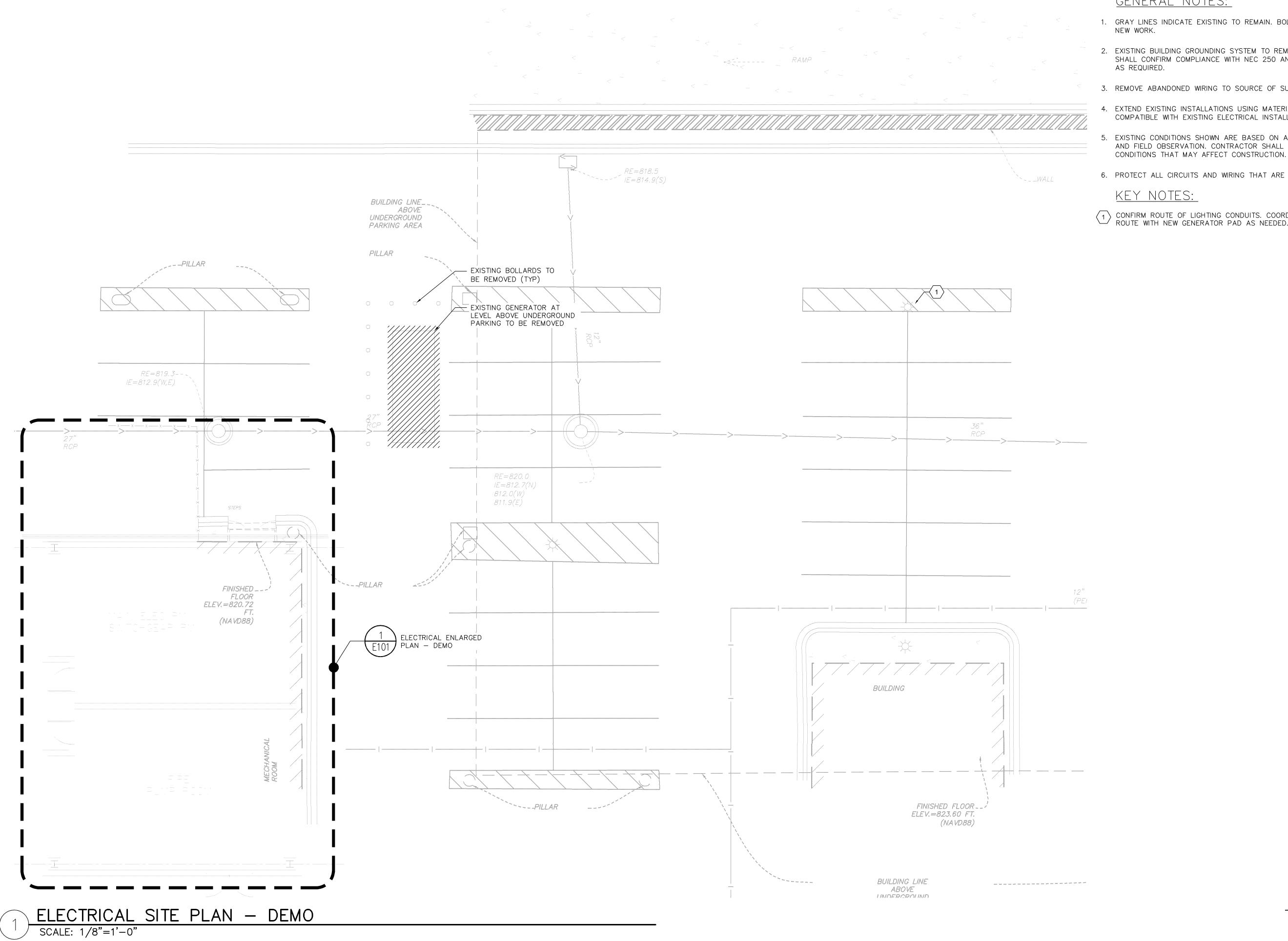
					ELECTRICAL	SYMBOI	LS				
		F	POWER				GROUNDING		ONE-L	INE SYMBOLS	
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYM DI	ESCR.	SYM DESCR.	
	CONNECTION POINT TO EQUIPMENT SPECIFIED, SUPPLIED AND INSTALLED UNDER OTHER DIVISIONS. RACEWAY, CONDUCTORS AND CONNECTIONS UNDER THIS DIVISION.	— 	3#10 AWG CONDUCTORS (1 NEUTRAL, 1 HOT, 1 GROUND)	卤	INDICATING LIGHT, WALL MTD, LETTER INDICATES COLOR. (A=AMBER, G=GREEN, R=RED)	— G — — — — — — — — — — — — — — — — — —	G = GROUNDING CONDUCTOR GROUND ROD (ONE-LINE)		/ICE RANCE TION (SES)	A-24 CIRCUIT BREAKER, 3 POLE UOI	A AMMETER
XX [A2]	EQUIPMENT TAG NUMBER. SEE NOTE B. CIRCUIT SCHEDULE TAG NUMBER SEE ELECTRICAL CIRCUIT LEGEND OR CIRCUIT RACEWAY SCHEDULE	• • • • • • • • • • • • • • • • • • •	SWITCHED CONDUCTOR CONDUIT UP & DOWN CONDUIT DOWN, UP AND STUBBED & CAPPED	PUSH-TEST	INDICATING LIGHT, PUSH-TO-TEST, LETTER INDICATES COLOR. (A=AMBER, G=GREEN, R=RED)	P	GROUNDING BUS EMBEDDED GROUND PAD		ELBOARD	200A CIRCUIT BREAKER MOTOR WITH	A AMMETER SWITCH V VOLTMETER
[P0001] OR P0001(X)] OR	POWER CONDUIT CALL-OUT. (X=2,3,4,) WHEN TWO OR MORE CONDUITS HAVE THE SAME NUMBER. MAJOR ELECTRICAL EQUIPMENT OR DEVICE, i.e., MOTOR		C = CONTROL SYSTEM CONDUIT CLK = CLOCK CONDUIT	<u></u>	INDICATING LIGHT, PANEL MTD, LETTER INDICATES COLOR. (A=AMBER, G=GREEN, R=RED)	•	GROUND TEST WELL	'HP1'	I BUTTON	DISCONNECT	VS VOLTMETER SWITCH METER
	CONTROL CENTER, SWITCHBOARD, ETC. PANELBOARD - SURFACE OR FLUSH MOUNTED AS INDICATED.	—— EM ——— FO———	EM = EMERGENCY POWER SYSTEM WIRING CONDUIT FO = FIBER OPTIC P = PRIMARY VOLTAGE DISTR SYS DUCT BANK	H A X00	3 POSITION SELECTOR SWITCH,		1#12 GROUND 1#12 GROUND, ISOLATED	O O NO	1 BUTTON	NEW MOTOR (ESTIMATED HP SHOWN) EXISTING MOTOR	KWH) KILOWATT HOUR METER
3R M	TERMINAL JUNCTION BOX (TJB). SURFACE OR FLUSH MOUNTED AS INDICATED. SEE NOTE D. MOTOR CONNECTION. FOR HORSEPOWER, REFER TO ONE-LINE DIAGRAM OR EQUIPMENT SCHEDULE.	T LV LO	T = TELECOM DISTRIBUTION SYSTEM DUCT BANK W VOLTAGE PWR & CNTRL SYSTEMS DUCT BANK	# # 00X	MAINTAINED CONTACTS X = CLOSED CONTACT O = OPEN CONTACT	GND	GROUND BOX		I BUTTON OCKOUT	(ESTIMATED HP SHOWN) FUTURE MOTOR (ESTIMATED HP SHOWN)	FUSE CUTOUTS (SCHEMATIC)
0	EMERGENCY/STANDBY ENGINE GENERATOR. RATING AS INDICATED ON ONE-LINE DIAGRAM. CONVENIENCE RECEPTACLE, PEDESTAL, DUPLEX SINGLE FACE	——U———————————————————————————————————	DENOTES CIRCUIT WHICH IS ROUTED IN EMBEDDED OR PARTIALLY EMBEDDED CONDUIT INSTALLED BY OTHERS EXOTHERMIC WELD	OFF ON	SELECTOR SWITCH, MAINTAINED CONTACTS X=CLOSED CONTACT			NC L ESB EMEI	BUTTON OCKOUT RGENCY STOP	PILOT LIGHT, Y=YELLOW, R=RED, A=AMBER, B=BLUE, W=WHITE, G=GREEN. SEE NOTE 3.	TRANSFER SWITCH, AUTOMATIC MAGNETIC MOTOR
∄∰• 	DUPLEX WITH TELEPHONE OR DATA AS INDICATED, SEE NOTE D. CONVENIENCE RECEPTACLE-SINGLE, DUPLEX, 4-PLEX, WP=WEATHER PROOF, GFCI=GROUND FAULT CIRCUIT	*****	EMH WITH TAPS	?	O=OPEN CONTACT NORMALLY OPEN I/O CONTACT WITH ADDRESS			STOP START	H BUTTON NTAINED CONTACT)	BELL HORN OR SIREN	STARTER. RV "1" = SIZE 1. RV = REDUCED VOLTAGE. 2S = 2 SPEED. R = REVERSING.
© L5-30	INTERRUPTER, IG=ISOLATED GROUND, SEE NOTE D. * INDICATES RECEPTACLE ABOVE COUNTER. RECEPTACLE, SPECIAL PURPOSE-NEMA CONFIGURATION AND AMPERAGE AS INDICATED, SEE NOTE D.	EMH]	ELECTRICAL MANHOLE	? ? +H• + \ \•	NORMALLY OPEN RELAY CONTACT AND NORMALLY CLOSED RELAY CONTACT				PUSH BUTTON START/STOP	CR CONTROL RELAY. SEE NOTE 3.	MAGNETIC CONTRACTOR KIRK KEY INTERLOCKING
Ð	DUPLEX CONVENIENCE RECEPTACLE-FLUSH MOUNTED IN FLOOR. DUPLEX RECEPTACLE W/ DATA AND	?	KIRK KEYED INTERLOCK SWITCH CONTROL RELAY OR MOTOR CONTACTOR COIL	# # # # O ? ?	OVERCURRENT DEVICE (OCD), OVERCURRENT RELAY (OCR) OR OPEN-PHASE DETECTION RELAY (OPD)			TRAI	NSFORMER	STARTER COIL. SEE NOTE 3. TIME DELAY RELAY. (0-30 SECONDS UNLESS	OF EQUIPMENT PFR PHASE FAILURE RELAY
© C	TELEPHONE CONNECTIONS WALL CLOCK WITH CLOCK HANGER OUTLET JUNCTION BOX. CONCEALED ABOVE CEILING UNLESS NOTED	#-(COIL)-# ————————————————————————————————————	NO CONNECTION	△ Y *	DELTA-WYE TRANSFORMER WITH NEUTRAL RESISTANCE GROUND, TYPE AS NOTED			UTIL	TY METER	OTHERWISE NOTED). SEE NOTE 3. ODISCONNECT SWITCH - NO	SA SURGE ARRESTER EQUIPMENT FURNISHED, INSTALLED & CONNECTED UNDER ANOTHER SECTION OF THE CONTRACT
- ①—	OTHERWISE. SUBSCRIPTS DENOTE: ①• = WALL, ① = FLOOR, SEE NOTE C. WALL SWITCH, SUBSCRIPT INDICATES TYPE (X): 2 = DOUBLE POLE LV = LOW VOLTAGE	+ +	CONNECTION AS INDICATED MEDIUM VOI TAGE CARLE TERMINATION	PQM	POWER QUALITY MONITOR (PQM) DISPLAY METER (DM)			GFP PRO	UND FAULT FECTION ENTIAL	DISCONNECT SWITCH - NC O DISCONNECT SWITCH - FLOAT NO	CONDUIT # X. SEE CONDUIT AND WIRING X SCHEDULE FOR SIZES AND
\$.	3 = THREE WAY P = PILOT LIGHT 4 = FOUR WAY K = KEY OPERATED D = DIMMER WP= WEATHER PROOF T = THERMAL SWITCH M = MANUAL MOTOR STARTER SWITCH	"X"	MEDIUM VOLTAGE CABLE TERMINATION MEDIUM VOLTAGE PLUG TERMINATION, WHERE "X" = PLUGS PER PHASE.	AFD	ENCLOSED STARTER, ADJUSTABLE FREQUENCY DRIVE (AFD)			TRAI	NSFORMER	O DISCONNECT SWITCH - FLOAT NC	QUANTITIES OF CONDUIT AND WIRES. MANUAL MOTOR STARTER
	NON-FUSED DISCONNECT SWITCH, AMPERAGE INDICATED, SEE NOTE D. FUSED DISCONNECT SWITCH (40/60, 40=FUSE AMPERAGE,	? OL	MAGNETIC STARTER, NEMA SIZE INDICATED, WITH OVERLOADS. CIRCUIT BREAKER, MAGNETIC TRIP ONLY (MOTOR CIRCUIT PROTECTOR). FRAME SIZE SHOWN, 3 POLE UNLESS	# # # XVA	MOTOR OVERLOAD			CON	NSFORMER		STARTER
5 CB	60=SWITCH AMPERAGE), SEE NOTE D. ENCLOSED CIRCUIT BREAKER WITH SHORT CIRCUIT AND OVERCURRENT PROTECTION. SEE SPECIFICATION FOR TYPE OF TRIP. (175/225, 175=TRIP AMPERAGE, 225=FRAME AMPERAGE).	_	INDICATED OTHERWISE. CIRCUIT BREAKER, THERMAL MAGNETIC OR SOLID STATE TRIP OR TRIP/FRAME SHOWN. 3 POLE UNLESS INDICATED	# = = # XV X1	CONTROL POWER TRANSFORMER PHOTOELECTRIC LIGHTING CONTROL						
0	SEE NOTE D. ENCLOSED CONTACTOR, MAGNETIC, AMPERAGE INDICATED. SEE NOTES D AND E. ENCLOSED STARTER, MAGNETIC, "1" = SIZE 1:	250	OTHERWISE. FUSED SWITCH, SWITCH CURRENT RATING INDICATED, 3 POLE UNLESS INDICATED OTHERWISE.	™ □ 2	UNIT-SENSOR AIMED NORTH UNLESS OTHERWISE NOTED. P=PASSIVE INFRARED						
	ENCLOSED STARTER, MAGNETIC, T = SIZE T; RV = REDUCED VOLTAGE; 2S = 2 SPEED; R = REVERSING. ENCLOSED STARTER, COMBINATION MAGNETIC, NEMA SIZE INDICATED. SEE NOTES D AND E.	30	SWITCH CURRENT RATING INDICATED, 3 POLE UNLESS INDICATED OTHERWISE. CIRCUIT BREAKER, RATING INDICATED, SOLID STATE TRIP, DRAW-OUT TYPE	PP SP	POWER PACK AND SLAVE PACK					ELECTRICAL NOTES	
•	CONTROL STATION SEE NOTES D & E	───────	CIRCUIT BREAKER MEDIUM VOLTAGE, RATING INDICATED, DRAW-OUT TYPE	Ø	CEILING OUTLET POWER PACK AND SLAVE PACK					LS OR ABBREVIATIONS 1. INTEGRATED	L NOTES: D EQUIPMENT RATING (IER) REFERS TO THE SHORT
PPP	MULTI-DUPLEX OUTLET ASSEMBLY CABLE TRAY, WIDTH AS INDICATED		SURGE ARRESTOR CAPACITOR-KVA INDICATED, 3 PHASE UNLESS INDICATED OTHERWISE.	∇	STRESS CONE MEDIUM VOLTAGE BLUG TERMINATION			B. MOUNTING PER SI PLAN DRAWINGS A	HIS SHEET AND NOT ON THE PRO PECIFICATIONS UNLESS NOTED OT AND SECTIONS FOR MOUNTING HE	THE LOWES THE LOWES IGHTS.	TING OF THE ELECTRICAL COMPONENT THAT HAS T SHORT CIRCUIT RATING.
	INDICATES CHANGE IN ELEVATION USING VERTICAL ADJUSTABLE SIDE PLATES OF CABLE TRAY. OVERHEAD CONDUIT ZONE		METER WITH SWITCH (V=VOLTMETER, A=AMMETER) SWITCH AND SCALE RANGE AS INDICATED.	CS)	MEDIUM VOLTAGE PLUG TERMINATION CONTROL SWITCH			X=EXPLOSION PR	IDICATED OTHERWISE: 3R=NEMA ROOF 4X=NEMA 4X, WP=WEATHE GRAMS FOR OPERATIONAL SCHEM	ERPROOF.	
~~~×××××××××××××××××××××××××××××××××××	UNDERSLAB OR BELOW GRADE CONDUIT DUCT BANK	480V Δ <u> </u>	MOTORIZED BELL SWITCH TRANSFORMER	(AA)	CROSS REFERENCE CALLOUT AS INDICATED  POWER POLE			COORDINATE EXA	EEPING PAD AS REQUIRED PER SECT DIMENSIONS WITH MANUFACTU EVATIONS ARE ABOVE FINISHED F	JRER'S SUBMITTALS.	
	UNDERSLAB OR BELOW GRADE CONDUIT DUCT BANK  BUSWAY, RATINGS PER SPECIFICATIONS AND/OR ONE-LINE DIAGRAM	208Y/120V ? KVA  600 NO NO		ZT/P ELE-XXX	ELECTRICAL TIE POINT. SEE SHTDOWN/TIE-IN LIST FOR DETAILS LOW VOLTAGE KEYPAD			DIAGRAMMATICAL SPECIFICALLY DIN	DUIT, RACEWAYS AND TRAYS ARE LY. LOCATIONS ARE APPROXIMAT IENSIONED. FIELD COORDINATE W TELECOM, MECHANICAL AND OTHE	E UNLESS ORK WITH	
6"x6"	WIREWAY, SIZE AS INDICATED  BUSWAY-FEEDER OR PLUG-IN DISCONNECT(S) AS	600 NC NC NC	MEDIUM VOLTAGE SWITCH OPERATOR WITH SOURCE TRANSFER CONTROL RATING AS INDICATED.	LS LS	LIGHT SENSOR						
FU 40	INDICATED ON ONE-LINE DIAGRAMS. PLUG-IN DEVICE TYPE AND RATING AS INDICATED.  BRANCH CIRCUIT(S) HOMERUN TO PANELBOARD.	400 N E	600V AUTOMATIC TRANSFER SWITCH CURRENT RATING AS INDICATED.	GEI  POINT OF CONI	NERAL SYMBOLS  NECTION SECTION CUT	_					
P1A-1,3,5	THREE PHASE CIRCUIT WITH GROUND.		INSTRUMENTATION VOLTAGE TRANSFORMER.	POINT OF DISC  REVISION NUM	ONNECTION 1						
	CONDUIT AND CONDUCTORS CONCEALED IN FINISHED SPACES AND EXPOSED ELSEWHERE UNLESS INDICATED OTHERWISE; SITE CONDUITS.  UNDERSLAB CONDUIT AND CONDUCTORS BELOW GRADE OR SLAB	400:5 <del>(?)</del>	CURRENT TRANSFORMER. RATIO AND QUANTITY INDICATED.  GROUND SENSOR CURRENT TRANSFORMER.	EQ EQUIPMENT MA  X KEYNOTE NOTE	$\begin{pmatrix} X \\ XXX \end{pmatrix}$ DETAIL $\begin{pmatrix} 1 \\ 101 \end{pmatrix}$ CALLOUT						
<del></del>	GRADE OR SLAB.  1#12 AWG HOT	800:5	RATIO & QUANTITY INDICATED.  CURRENT SENSOR	1 EQUIPMENT OR MATERIA	LIGHTING FIXTURE TYPE A, 100 WATTS, WITH 1 LAMP. SEE LIGHTING FIXTURE SCHEDULE						
<del>-1</del>	1#12 AWG NEUTRAL	M ————————————————————————————————————	POWER MONITOR  RESISTOR AND SPACE HEATER	CONDUIT CONT (ONE-LINE & DO	MATCH LINE  INUATION  DUBLE LINES)  REFER TO SHEET XX-###						

SPECIFICATION OR REPORT WAS PREPARED BY
ME OR UNDER MY DIRECT SUPERVISION AND
THAT I AM A DULY LICENSEPPROFESSIONAL
THAT I AM A DULY LICENSEPPROFE

ELECTRICAL SYMBOLS AND NOTES

REPLACEMENT
PREPARED FOR
SA MINNEAPOLIS

PREP IKEA MIR



GENERAL NOTES:

1. GRAY LINES INDICATE EXISTING TO REMAIN. BOLD LINES INDICATE

2. EXISTING BUILDING GROUNDING SYSTEM TO REMAIN. CONTRACTOR SHALL CONFIRM COMPLIANCE WITH NEC 250 AND MAKE UPGRADES

3. REMOVE ABANDONED WIRING TO SOURCE OF SUPPLY.

4. EXTEND EXISTING INSTALLATIONS USING MATERIALS AND METHODS COMPATIBLE WITH EXISTING ELECTRICAL INSTALLATIONS

5. EXISTING CONDITIONS SHOWN ARE BASED ON AS-BUILT DRAWINGS AND FIELD OBSERVATION. CONTRACTOR SHALL FIELD VERIFY ALL

6. PROTECT ALL CIRCUITS AND WIRING THAT ARE TO REMAIN.

CONFIRM ROUTE OF LIGHTING CONDUITS. COORDINATE RELOCATION ROUTE WITH NEW GENERATOR PAD AS NEEDED.

2. EXISTING BUILDING GROUNDING SYSTEM TO REMAIN. CONTRACTOR SHALL CONFIRM COMPLIANCE WITH NEC 250 AND MAKE UPGRADES AS REQUIRED.

3. REMOVE ABANDONED WIRING TO SOURCE OF SUPPLY.

4. EXTEND EXISTING INSTALLATIONS USING MATERIALS AND METHODS COMPATIBLE WITH EXISTING ELECTRICAL INSTALLATIONS

5. EXISTING CONDITIONS SHOWN ARE BASED ON AS-BUILT DRAWINGS AND FIELD OBSERVATION. CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS THAT MAY AFFECT CONSTRUCTION.

6. PROTECT ALL CIRCUITS AND WIRING THAT ARE TO REMAIN.

KEY NOTES:

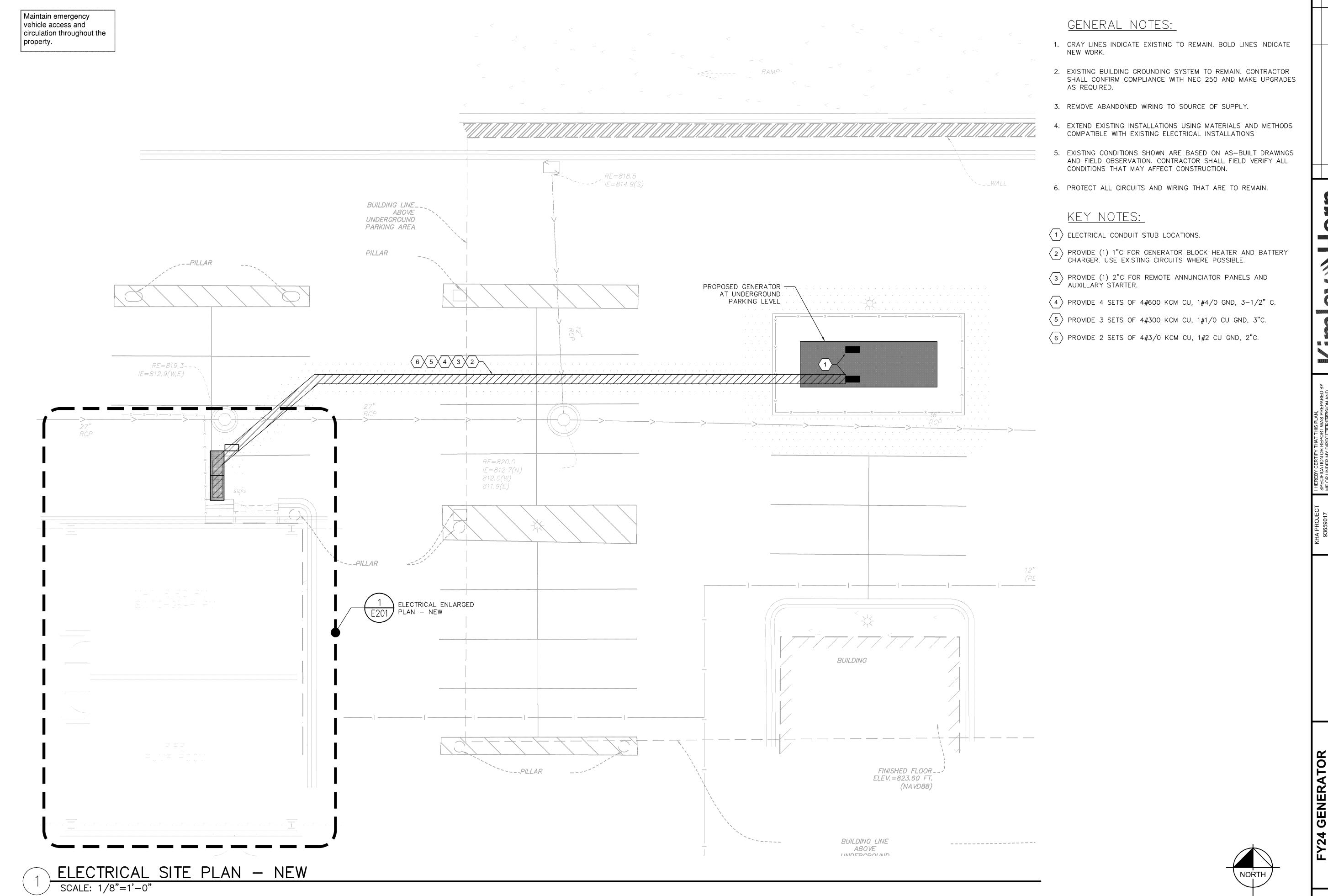
DEMOLISH AUTOMATIC TRANSFER SWITCH. DEMOLISH GENERATOR SIDE CONDUCTORS TO SOURCE.

2 EXISTING AUTOMATIC TRANSFER SWITCHES ARE BUILT INTO SWITCHBOARD. REMOVE ALL CONTROLS AND POWER WIRING. REMOVE FRONT COVER PLATE AND REPLACE WITH BLANK COVER. EMPTY SECTION TO BE USED FOR NEW PULL SECTION AFTER REPLACEMENT ATS IS INSTALLED.

 $\overline{3}$  SOLAR EQUIPMENT TO BE REPLACED BY OTHERS.

GENERAL NOTES:

1. GRAY LINES INDICATE EXISTING TO REMAIN. BOLD LINES INDICATE NEW WORK.



MLEY-HORN AND ASSOCIATES, INC.
STREET, SUITE 100, ST. PAUL, MN 55114
PHONE: 651-645-4197
WWWW KIMI EY-HORN COM

DATE

06/12/2024

SCALE AS SHOWN

ROPOSED SITE PLAN

SEPLACEMENT
PREPARED FOR

GENERAL NOTES:

1. GRAY LINES INDICATE EXISTING TO REMAIN. BOLD LINES INDICATE NEW WORK.

2. EXISTING BUILDING GROUNDING SYSTEM TO REMAIN. CONTRACTOR SHALL CONFIRM COMPLIANCE WITH NEC 250 AND MAKE UPGRADES AS REQUIRED.

3. REMOVE ABANDONED WIRING TO SOURCE OF SUPPLY.

4. EXTEND EXISTING INSTALLATIONS USING MATERIALS AND METHODS COMPATIBLE WITH EXISTING ELECTRICAL INSTALLATIONS

5. EXISTING CONDITIONS SHOWN ARE BASED ON AS-BUILT DRAWINGS AND FIELD OBSERVATION. CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS THAT MAY AFFECT CONSTRUCTION.

6. PROTECT ALL CIRCUITS AND WIRING THAT ARE TO REMAIN.

#### KEY NOTES:

 $\left\langle 1\right\rangle$  USE ABANDONED ATS SECTION AS NEW PULL SECTION.

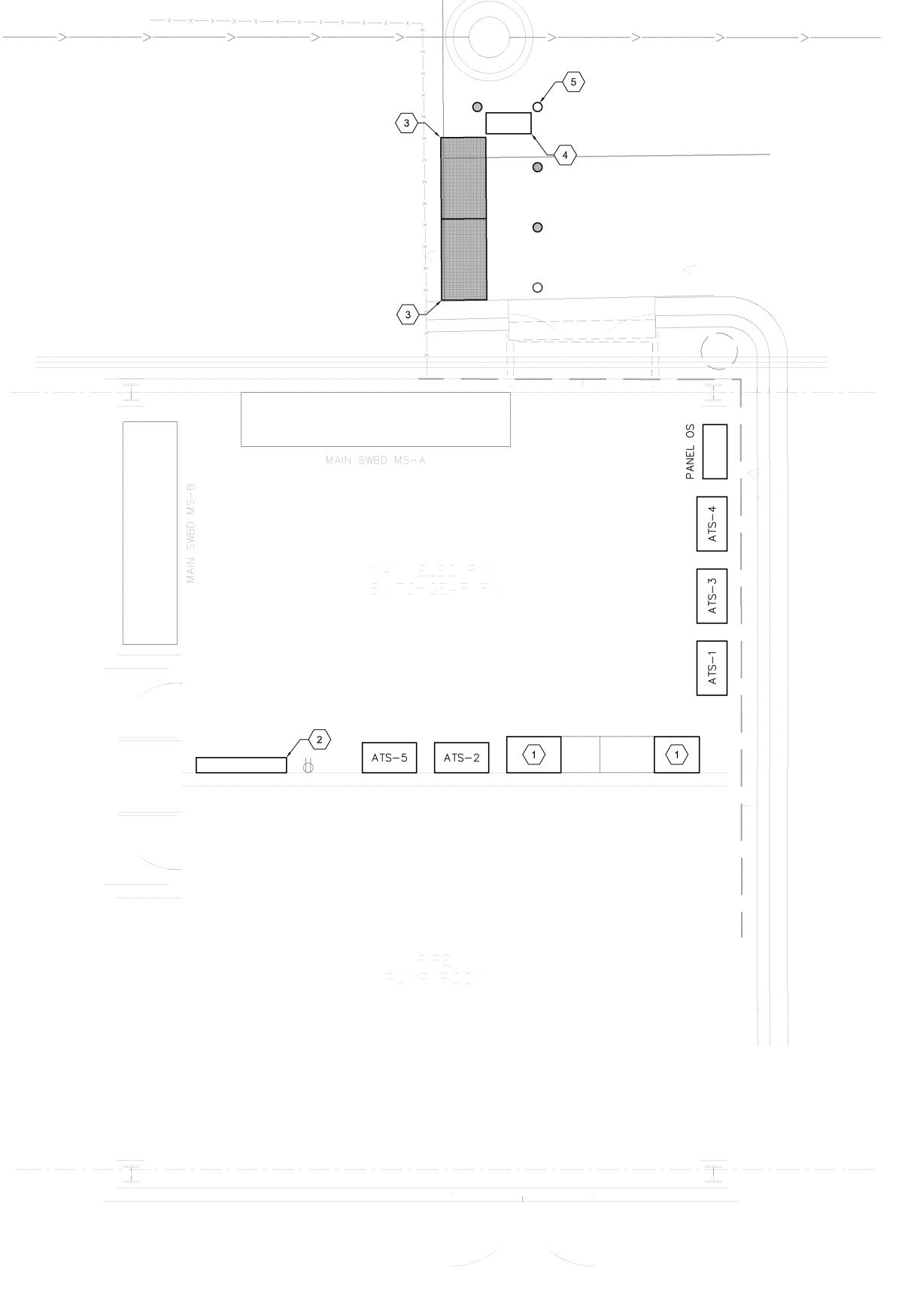
 $\langle 2 \rangle$  SOLAR EQUIPMENT TO BE RELOCATED BY OTHERS.

PROVIDE CABLE TRANSMISSION CABINET AS JUNCTION BOX. PROVIDE UNISTRUT TO CEILING FOR NEW CONDUITS.

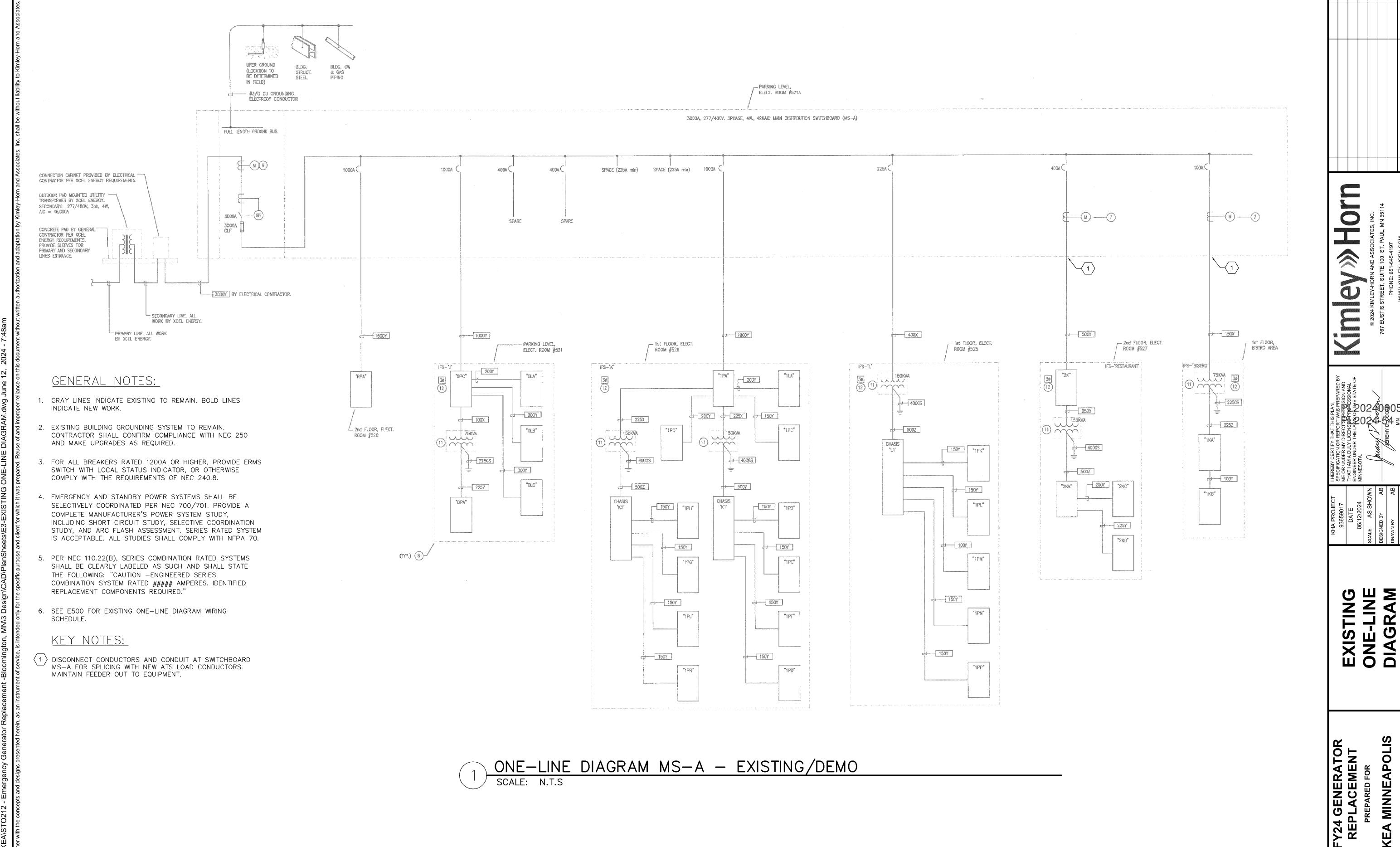
4 PROVIDE UNISTRUT FOR GCC.

 $\overline{5}$  PROVIDE PROTECTION VIA BOLLARDS.

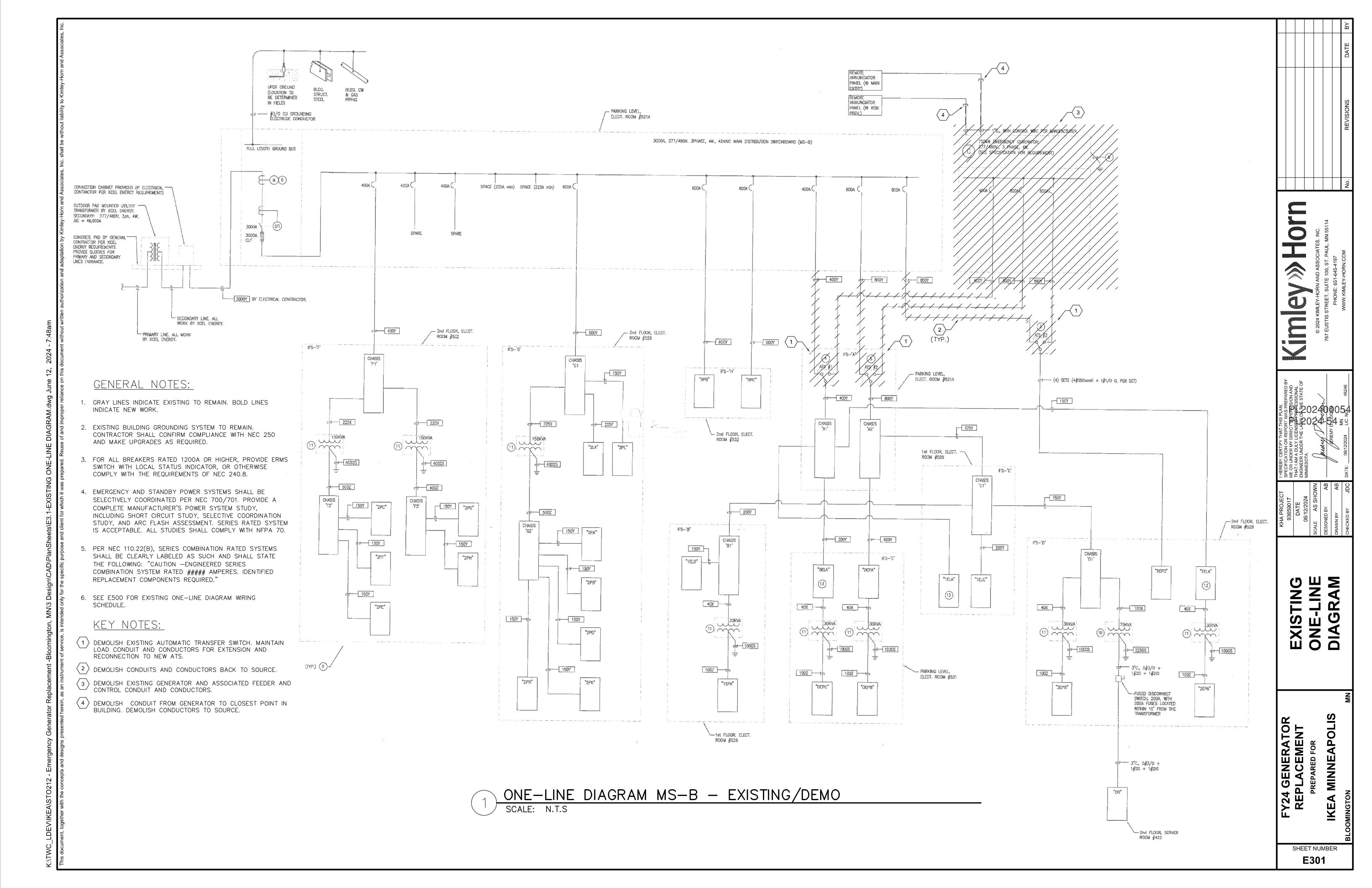
SHEET NUMBER E201

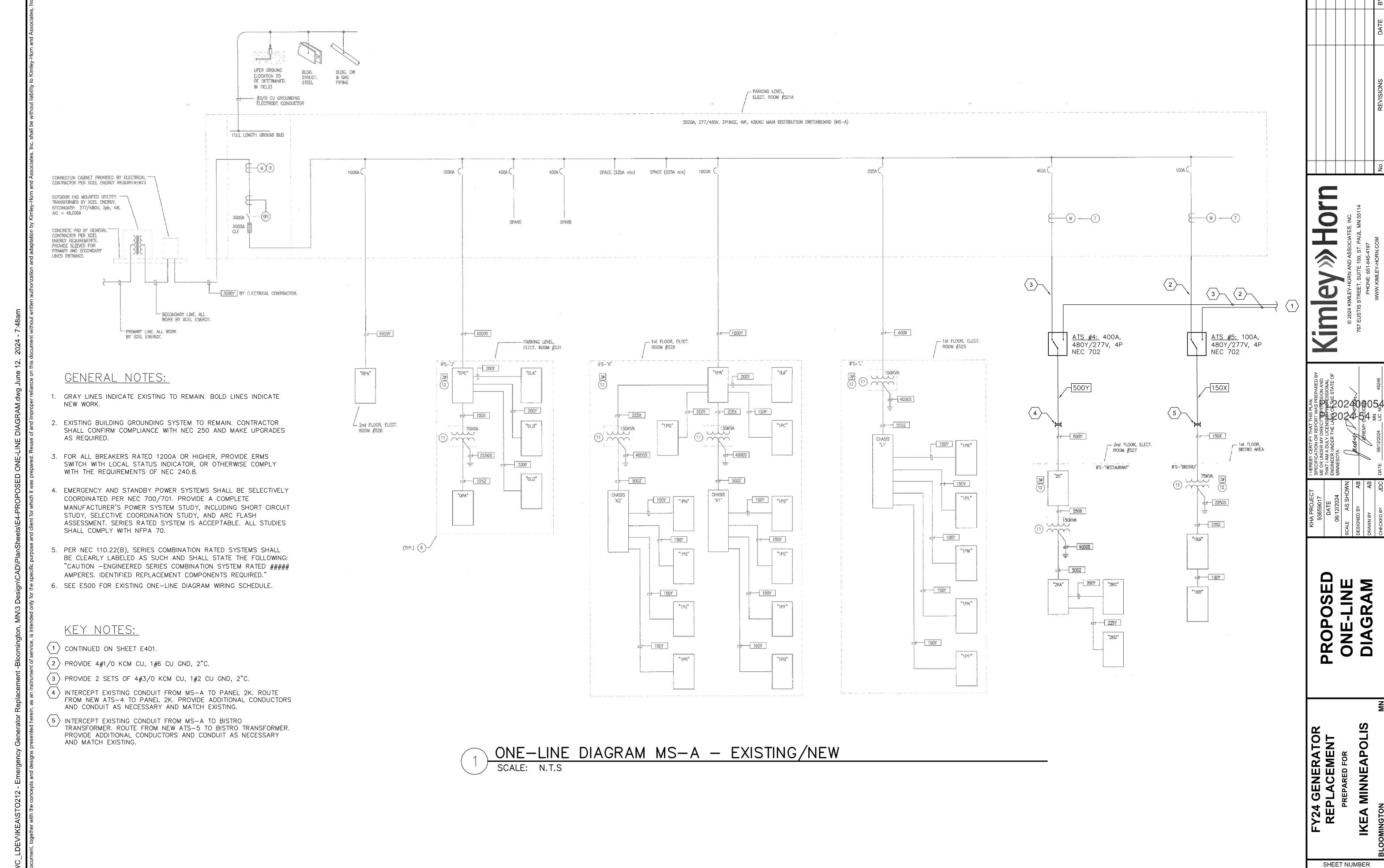


ELECTRICAL ENLARGED PLAN — NEW SCALE: 1/4"=1'-0"

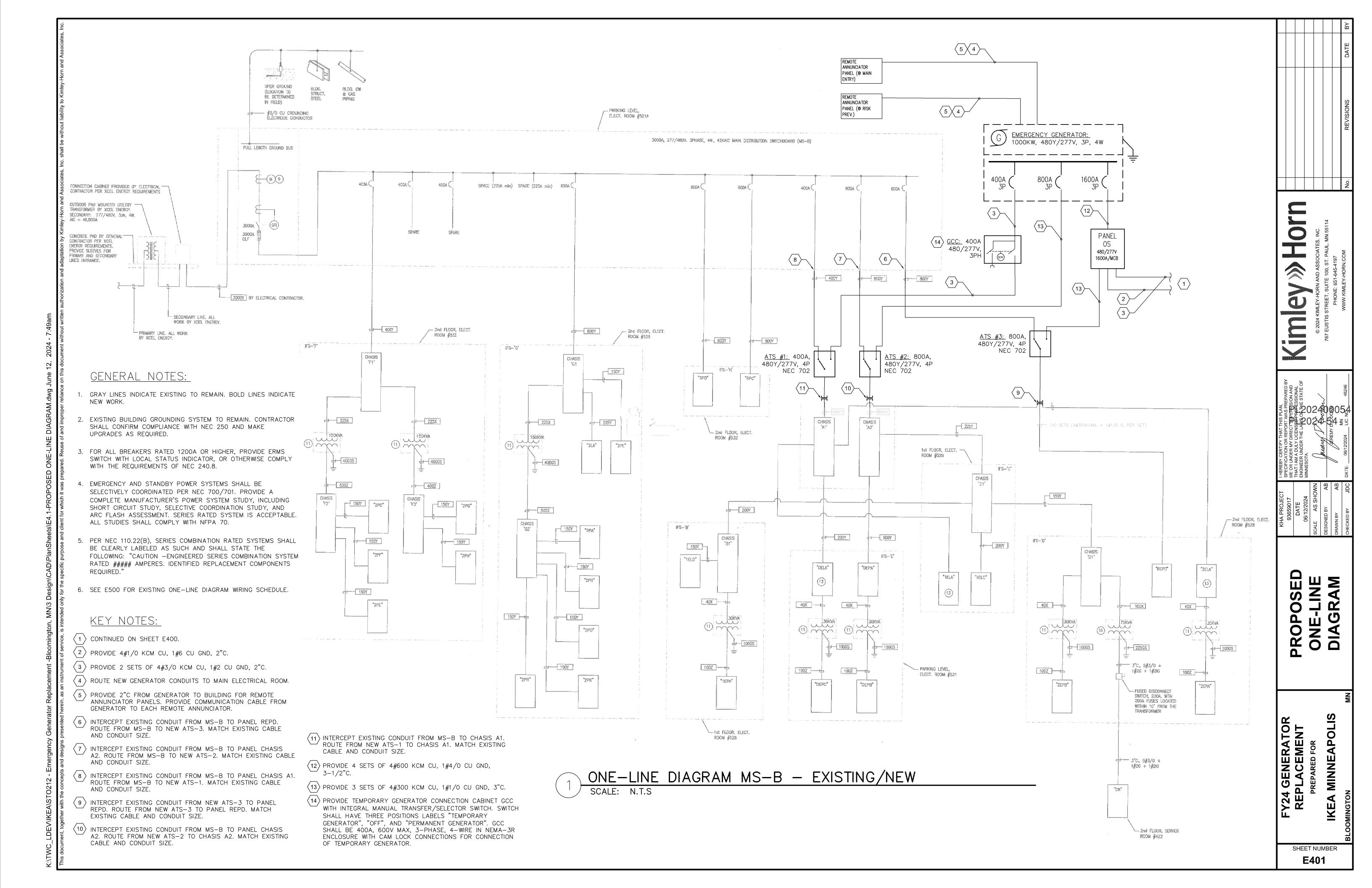


MINNEAPOLIS





E400



3 WIRE FEEDER & GROUND FEEDERS	4 WIRE FEEDER & GROUND FEEDERS SYMBOL CONDUIT & CONDUCTOR SIZE	4 WIRE FEEDERS (FROM XFMR) SYMBOL CONDUIT & CONDUCTOR SIZE
SYMBOL CONDUIT & CONDUCTOR SIZE		done while while with the proof again, while again while with while again, while again, the court while again,
20X 1/2"C., 3#12 + 1#12G	20Y 3/4"C., 4#12 + 1#12G 30Y 3/4"C., 4#10 + 1#10G	50Z 1-1/4"C., 4#6 + 1#8G 100Z 2"C., 4#1 + 1#6G
30X 3/4"C., 3#10 + 1#10G 40X 1"C., 3#8 + 1#10G	40Y 1"C., 4#8" + 1#10G	150Z 2"C., 4#1/0 + 1#6G
50X 1-1/4"C., 3#6 + 1#10G	50Y 1-1/4"C., 4#6" + 1#10G	225Z 3"C., 4#4/O + 1#2G
60X = 1-1/4°C., $3#4 + 1#10G$	60Y 1-1/4°C., 4#4 + 1#10G	350Z 4°C., 4#500kcmil + 1#1/0G
70X $1-1/4$ °C., $3\#4 + 1\#8G$	70Y 1-1/2"C., 4#4 + 1#8G	400Z 2 SETS OF (2°C., 4#3/0kcmil + 1#4G)
80X 1-1/2"C., 3#2 + 1#8G 90X 1-1/2"C., 3#2 + 1#8G	80Y 2"C., 4#2 + 1#8G 90Y 2"C., 4#2 + 1#8G	500Z 2 SETS OF (3°C., 4#250kcmil + 1#2/0G) 800Z 2 SETS OF (4°C., 4#600kcmil + 1#3/0G)
100X 1-1/2"C., 3#1 + 1#8G	100Y 2"C., 4#1 + 1#8G	1000Z 3 SETS OF (4"C., 4#400kcmil + 1#3/0G)
125X 2°C., 3#1/O + 1#6G	125Y 2"C., 4#1/O + 1#6G	
150X 2"C., 3#1/0 + 1#6G	150Y 2"C., 4#1/0 + 1#6G	
175X 2"C., 3#2/0 + 1#6G 200X 2"C., 3#3/0 + 1#6G	175Y 2-1/2°C., 4#2/0 + 1#6G 200Y 2-1/2°C., 4#3/0 + 1#6G	
200X 2"C., 3#3/0 + 1#6G 225X 2-1/2"C., 3#4/0 + 1#4G	225Y 3"C., 4#4/0 + 1#4G	
250X 2-1/2"C., 3#250kcmil + 1#4G	250Y 3"C., 4#250kcmil + 1#4G	
300X 3"C., 3#350kcmil + 1#4G	300Y 3-1/2"C., 4#350kcmil + 1#4G	
350X 3"C., 3#500kcmil + 1#2G	350Y 4"C., 4#500kcmil + 1#2G	
400X 2 SETS OF (2"C., 3#3/0kcmil + 1#2G)	400Y 2 SETS OF (2°C., 4#3/0kcmil + 1#2G) 500Y 2 SETS OF (3°C., 4#250kcmil + 1#2G)	GROUND SIZE
500X 2 SETS OF (2-1/2"C., 3#250kcmil + 1#2G) 600X 2 SETS OF (3"C., 3#350kcmil + 1#1G)	600Y 2 SETS OF (3-1/2"C., 4#350kcmii + 1#1G)	SYMBOL CONDUIT & CONDUCTOR SIZE
800X 3 SETS OF (3°C., 3#300kcmil + 1#1/OG)	800Y 3 SETS OF (3"C., 4#300kcmil + 1#1/0G)	50GS 1/2°C., 1#8
1000X 3 SETS OF (3"C., 3#400kcmil + 1#2/OG)	1000Y 3 SETS OF (4"C., 4#400kcmil + 1#2/0G)	100GS 1/2°C., 1#8
1200X 3 SETS OF (3"C., 3#250kcmil + 1#3/0G)	1200Y 5 SETS OF (3"C., 4#250kcmil + 1#3/OG)	150GS 1/2"C., 1#2
1600X 5 SETS OF (4"C., 3#400kcmil + 1#4/OG)	1600Y 5 SETS OF (4"C., 4#400kcmil + 1#4/0G) 2000Y 6 SETS OF (4"C., 4#500kcmil + 1#250kcmilG)	225GS 1/2"C., 1#2 350GS 3/4"C., 1#1/0
2000X 6 SETS OF (4"C., 3#500kcmil + 1#250kcmilG) 2500X 7 SETS OF (4"C., 3#500kcmil + 1#350kcmilG)	2000Y 6 SETS OF (4"C., 4#500kcmil + 1#250kcmilG) 2500Y 7 SETS OF (4"C., 4#500kcmil + 1#350kcmilG)	400GS 3/4"C., 1#1/0
3000X 8 SETS OF (4"C., 3#500kcmil + 1#400kcmilG)	3000Y 8 SETS OF (4"C., 4#500kcmil + 1#400kcmilG)	800GS 3/4"C., 1#3/0
		1000GS 3/4°C., 1#3/0

+ IG: PROVIDE ADDITIONAL ISOLATED GROUND WIRE TO FEEDER AS INDICATED. INCREASE CONDUIT SIZE AS REQUIRED.

WIRING SCHEDULE IS FROM EXISTING BUILDING RECORD DRAWINGS AND PROVIDED AS REFERENCE. CONTRACTOR TO CONFIRM EXISTING WIRING FOR MODIFIED FEEDERS.



EXISTING ONE-LINE DIAGRAM WIRE SCHEDULE
SCALE: NTS

IKEA MINNEAPOLIS

#### **GENERAL STRUCTURAL NOTES:**

#### **DESIGN SPECIFICATIONS:**

2020 MINNESOTA BUILDING CODE WITH AMENDMENTS TO THE 2018 INTERNATIONAL BUILDING CODE (IBC).

ASCE MINIMUM DESIGN LOADS AND ASSOCIATED CRITERIA FOR BUILDINGS AND OTHER STRUCTURES 2016 (ASCE 7-16)

BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI 318-14)

#### **DESIGN LOADS:**

2018 IBC PRESUMPTIVE SOIL VALUES:
ALLOWABLE SOIL BEARING PRESSURE = 1500 PSF
PASSIVE PRESSURE = 100 PCF
COEFFICIENT OF FRICTION = 0.25
ASSUMED SUBGRADE MODULUS, K = 150 PSI/IN
FROST DEPTH, ZONE II = 5'-0"

DEAD LOAD: GENERATOR ENC

GENERATOR ENCLOSURE WEIGHT = 42501 LBF GENERATOR ENCLOSURE AREA = 209 SF

LIVE LOAD: MEZZANINE

WIND DESIGN CRITERIA:

ULTIMATE DESIGN WIND SPEED = 117 MPH

NOMINAL DESIGN WIND SPEED = 91 MPH

RISK CATEGORY = III

RISK CATEGORY EXPOSURE B

SNOW DESIGN CRITERIA: GROUND SNOW LOAD

= 50 PSF

= 60 PSF

#### CONCRETE AND REINFORCEMENT:

CONCRETE SHOULD MEET THE FOLLOWING CRITERIA:

CEMENTITIOUS MATERIALS SHOULD COMPLY WITH LIMITATIONS DESCRIBED IN TABLE 26.4.2.2(B) OF ACI 318-19

f'c = 5,000 PSI (NORMAL WEIGHT CONCRETE)

TYPE I/II OR IL CEMENT

EXPOSURE CLASS F3

SLUMP = 4" +/- 1"

AIR CONTENT = 6% +/- 1.5%

MAXIMUM WATER/CEMENT RATIO = 0.40

MAX AGGREGATE SIZE = ¾" DIAMETER

REINFORCING STEEL SHALL CONFORM TO ASTM A615: fy = 60,000 PSI

ALL REINFORCING SHALL BE EPOXY COATED.

EPOXY COATING SHALL CONFORM TO ASTM A775 FOR REINFORCING BARS AND ASTM A884 FOR WELDED WIRE FABRIC.

ACI STANDARD HOOKS SHALL BE USED UNLESS NOTED OTHERWISE.

LAP SPLICES ARE ALL CLASS B TENSION LAP SPLICES, UNO.

BARS SHALL BE FIELD TIED. WELDING IS NOT PERMITTED.

PROVIDE A 34" CHAMFER ON ALL EXPOSED CORNERS OF CONCRETE.

DETAIL, FABRICATE AND ERECT REINFORCEMENT BARS, INCLUDING BAR SUPPORTS, SPACERS, ETC. IN ACCORDANCE WITH "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT" (A.C.I. SP-66(04)).

ALL BEND DIMENSIONS FOR REINFORCING STEEL SHALL BE OUT—TO—OUT OF BARS. ALL PLACEMENT DIMENSIONS FOR REINFORCING STEEL SHALL BE TO CENTER OF BARS UNLESS NOTED OTHERWISE.

ALL REINFORCING SHALL HAVE 3" CLEAR COVER UNLESS NOTED OTHERWISE.

CONTRACTOR IS RESPONSIBLE FOR THE PROPER DESIGN AND CONSTRUCTION OF ALL FORMWORK AND SHORING.

#### COORDINATION:

CONTRACTOR SHALL COORDINATE ALL EXISTING CONDITIONS DURING CONSTRUCTION OF PROJECT. UTILITY INFORMATION SHOWN ON THE PLANS MAY NOT BE COMPLETE OR ACCURATELY DEPICT THE LOCATION OF THE UTILITIES SHOWN. THE CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL EXISTING, NEW, RELOCATED, AND ABANDONED UTILITIES WITH THE PROJECT PLANS AND NOTIFY RESPECTIVE OWNERS BEFORE COMMENCING THE WORK OF EXCAVATION, INCLUDING ANY DRILLING OR PILING REQUIRED FOR TEMPORARY SHORING. CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND RESOLVED PRIOR TO PROCEEDING WITH THE WORK.

CONTRACTOR SHALL VERIFY STUB UP LOCATIONS WITH EQUIPMENT MANUFACTURER. CONDUIT IS TO BE PLACED IN STUB UP LOCATIONS PRIOR TO PLACEMENT OF CONCRETE.

VERIFY ALL DIMENSIONS, LOCATIONS, AND ELEVATIONS PRIOR TO STARTING WORK. NOTIFY THE ENGINEER OF ANY DISCREPANCIES.

CONTRACTOR SHOULD VERIFY LOCATION OF STUB UPS REQUIRED FOR EXISTING GENERATOR AND PROVIDE STUB UP IN PAD LOCATION. IF STUB UP IS WITHIN 1'-0" OF PROPOSED STUB UP LOCATION FOR THE PROPOSED GENERATOR, NOTIFY ENGINEER FOR A REVISED STUB UP DETAIL. UPON EXISTING GENERATOR REMOVAL, ALL EXISTING CONDUIT SHOULD BE CAPPED PER ELECTRICAL DRAWINGS AND ABANDONED.

#### **POST-INSTALLED ANCHORS**

UNLESS OTHERWISE INDICATED ON PLANS, POST-INSTALLED ANCHORS SHALL CONSIST OF THE FOLLOWING ANCHOR TYPES, OR ENGINEER'S APPROVED EQUAL:

HILTI KWIK HUS HILTI HY 200 SAFE SET SYSTEM

SUBSTITUTION REQUESTS FOR ALTERNATE PRODUCTS MUST BE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER OF RECORD PRIOR TO USE. CONTRACTOR SHALL PROVIDE CALCULATIONS DEMONSTRATING THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING THE PERFORMANCE VALUES OF THE SPECIFIED PRODUCT. SUBSTITUTIONS WILL BE EVALUATED BY THEIR HAVING AN ICC ESR SHOWING COMPLIANCE WITH THE RELEVANT AND CURRENT BUILDING CODE.

INSTALL ANCHORS PER THE MANUFACTURER INSTRUCTIONS, AS INCLUDED IN THE ANCHOR PACKAGING.

THE CONTRACTOR SHALL ARRANGE AN ANCHOR MANUFACTURER'S REPRESENTATIVE TO PROVIDE ONSITE INSTALLATION TRAINING FOR ALL OF THEIR ANCHORING PRODUCTS SPECIFIED. THE STRUCTURAL ENGINEER OF RECORD MUST RECEIVE DOCUMENTED CONFIRMATION THAT ALL OF THE CONTRACTOR'S PERSONNEL WHO INSTALL ANCHORS ARE TRAINED PRIOR TO THE COMMENCEMENT OF INSTALLING ANCHORS.

ANCHOR CAPACITY IS DEPENDENT UPON SPACING BETWEEN ADJACENT ANCHORS AND PROXIMITY OF ANCHORS TO EDGE OF CONCRETE. INSTALL ANCHORS IN ACCORDANCE WITH SPACING AND EDGE CLEARANCES INDICATED ON THE DRAWINGS.

#### FOUNDATIONS:

SLAB ON GRADE SHALL BE PLACED AND ESTIMATED ACCORDING TO DEPTHS SHOWN ON THE DRAWINGS. SUBGRADE SHALL BE PREPARED AS DETAILED IN THE DRAWINGS.

FOUNDATION DESIGN IS BASED ON PRESUMPTIVE LOAD BEARING VALUES IN THE INTERNATIONAL BUILDING CODE.

NO FOUNDATIONS SHALL BE PLACED ONTO OR AGAINST SUBGRADES CONTAINING FREE WATER, FROST OR ICE.

PLACE BACKFILL TURN DOWNS AFTER CONCRETE HAS ATTAINED FULL DESIGN STRENGTH.

THE CONTRACTOR SHALL DESIGN AND CONSTRUCT ALL TEMPORARY CASING, PROTECTION, SHORING, BRACING, DEWATERING, AND UNDERPINNING NECESSARY TO COMPLETE THE WORK. ALL TEMPORARY SYSTEMS SHALL BE DESIGNED BY AN ENGINEER LICENSED IN THE STATE IN WHICH THE PROJECT IS LOCATED.

LOCATE AND PROTECT EXISTING UTILITIES TO REMAIN DURING AND AFTER CONSTRUCTION. REMOVE ABANDONED FOUNDATIONS AND UTILITES WHICH INTERFERE WITH NEW CONSTRUCTION UNLESS OTHERWISE INDICATED. CONCRETE WORK BELOW GRADE SHALL BE DETAILED AS WATERTIGHT CONSTRUCTION. CONSTRUCTION JOINTS BELOW GRADE SHALL BE WATERTIGHT.

MINIMUM DEPTH FROM GRADE TO BOTTOM OF SLAB TURN DOWN SHALL BE 5'-0" MIN. BACKFILL MATERIALS & SUBGRADE MATERIAL, AND COMPACTION REQUIREMENTS SHALL BE AS DETAILED IN THE DRAWINGS.

FINISHED GRADE IS DEFINED AS TOP OF SLAB FOR INTERIOR FOOTINGS AND LOWEST ADJACENT WITHIN 5 FEET OF EXTERIOR FOOTINGS.

#### **ELECTRICAL EQUIPMENT NOTES:**

EQUIPMENT PAD SURFACE SHALL MEET A FLOOR CLASSIFICATION OF "FLAT" CONFORMING TO THE REQUIREMENTS OF ACI 117, TABLE R4.8.4.

#### SPECIAL INSPECTIONS:

PER IBC SECTION 1704, SPECIAL INSPECTION IS REQUIRED DURING THE OPERATIONS FOUND IN TABLES 1705.3 AND 1705.6.

DUTIES AND RESPONSIBILITIES OF THE SPECIAL INSPECTOR:

- 1. THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK ASSIGNED TO BE CERTAIN IT CONFORMS WITH THE APPROVED DESIGN DRAWINGS AND SPECIFICATIONS.
- 2. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, THE ENGINEER OF RECORD, RTC, AND THE OWNER. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION, THEN, IF UNCORRECTED, TO THE DESIGN AUTHORITY AND THE BUILDING OFFICIAL.
- 3. INSPECTIONS SHALL BE PERFORMED BY AN ICC CERTIFIED INSPECTOR APPROVED AND EMPLOYED BY THE OWNER/DEVELOPER.

#### DUTIES AND RESPONSIBILITIES OF THE CONTRACTOR:

- 1. FOR INSPECTION OF CONCRETE, BOLTS IN CONCRETE, REINFORCING STEEL, EXPANSION BOLTS, AND ADHESIVE ANCHORS, NOTIFY THE SPECIAL INSPECTOR THAT WORK IS READY FOR INSPECTION AT LEAST ONE WORKING DAY (24 HOURS MINIMUM) BEFORE SUCH INSPECTION IS REQUIRED.
- 2. ALL WORK REQUIRING SPECIAL STRUCTURAL INSPECTION SHALL REMAIN ACCESSIBLE AND EXPOSED UNTIL IT IS OBSERVED BY THE SPECIAL STRUCTURAL INSPECTOR.

REQUIRED SPECIAL INSPECTIONS AND TESTS OF CONCRETE CONSTRUCTI	ON
(IBC TABLE 1705.3)	

(120 11 1222 11 0010)				
TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION	REFERENCED STANDARD	IBC REFERENCE
INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT.	_	x	ACI 318: CH. 20, 25.2, 25.3, 26.6.1-26.6.3	1908.4
INSPECT ANCHORS CAST IN CONCRETE.	_	X	ACI 318: 17.8.2	-
INSPECT ANCHORS POST—INSTALLED IN HARDENED CONCRETE MEMBERS.  A. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS.  B. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.A.	× -	- х	ACI 318: 17.8.2.4 ACI 318: 17.8.2	-
VERIFY USE OF REQUIRED DESIGN MIX.	_	x	ACI 318: CH. 19, 26.4.3, 26.4.4	1904.1, 1904.2, 1908.2, 1908.3
PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP & AIR CONTENT TESTS, & DETERMINE THE TEMP. OF THE CONCRETE.	X	_	ASTM C172, ASTM C31, ACI 318: 26.5, 26.12	1908.10
INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	x	_	ACI 318: 26.5	1908.6, 1908.7, 1908.8
INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	_	x	ACI 318: 26.11.1.2(b)	_

REQUIRED SPECIAL INSPECTIONS AND TES	TS OF SOILS
(IBC TABLE 1705.6)	
TYPE	CONTINUOUS SPECIAL INSPECTION

TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	_	X
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	_	X
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	_	X
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	Х	_
5. PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	_	X

No. REVISIONS DATE

© 2024 KIMLEY-HORN AND ASSOCIATES, INC.
767 EUSTIS STREET, SUITE 100, ST. PAUL, MN 55114
PHONE: 651-645-4197

DATE ENGINEER 05/09/2024 MINNESOT SCALE: AS SHOWN DESIGNED BY: CMC

STRUCTURAL ENERAL NOTES

PREPARED FOR IKEA MINNEAPOLIS

