



# Expansion Medicine **Pediatric** Stony

# PROJECT TEAM:

**OWNER:** 

STONYBROOK UNIVERSITY HOSPITAL

188 Belle Mead Road East Setauket, N.Y. 11733-9230 tel: (631) 689-8333

#### **COST ESTIMATING:**

TROPHY POINT, LLC

4588 South Park Avenue Blasdell, NY 14219 tel: (716) 823-0006

### ARCHITECT:

Stantec Architecture Inc.

1500 Spring Garden Street Suite 1100 Philadelphia, PA, 19130 tel: (215) 665-7000

## PNEUMATIC TUBE

SWISSLOG HEALTHCARE

4000 Wegmans Drive Suite 200 Bethlehem, PA 18017 tel: (610) 691-0994

#### **GEOTECH ENGINEER:**

HUQ ENGINEERING CONSULTANCY

37-15 73rd Street Queens, NY, 11372 tel: (215) 335-6121

# ART, GRAPHICS,

Suite 503 Philadelphia, PA, 19107 tel: (215) 557-9200

#### **CIVIL ENGINEER:**

KSE ENGINEERS, PC

2 Riverfront Plaza 3rd Floor Newark, NJ, 07102 tel: (973) 623-2999

## WAYFINDING, & SIGNAGE SUSTAINABILITY & LEED:

**EVOLVE EA** 

6020 Broad Street Pittsburgh, PA, 15206 tel: (412) 362-2100

#### STRUCTURAL ENGINEER:

LERA CONSULTING STURCTURAL EGINEERS, RLLP 40 Wall Street 23rd Floor New York, NY, 10005-1339 tel: (212) 750-9000

#### PLUMBING ENGINEER: WATSON ENGINEERING

1112 State Route 434 Owego, NY 13827 tel: (607) 223-4334

#### **LIGHTING DESIGN:**

THE LIGHTING PRACTICE

600 Chestnut Street Suite 772 Philadelphia, PA, 19106 tel: (215) 238-1644

#### AV/IT, ACCOUSTICS, SECURITY & MED EQUIP.

SHEN MILSOM & MIKE

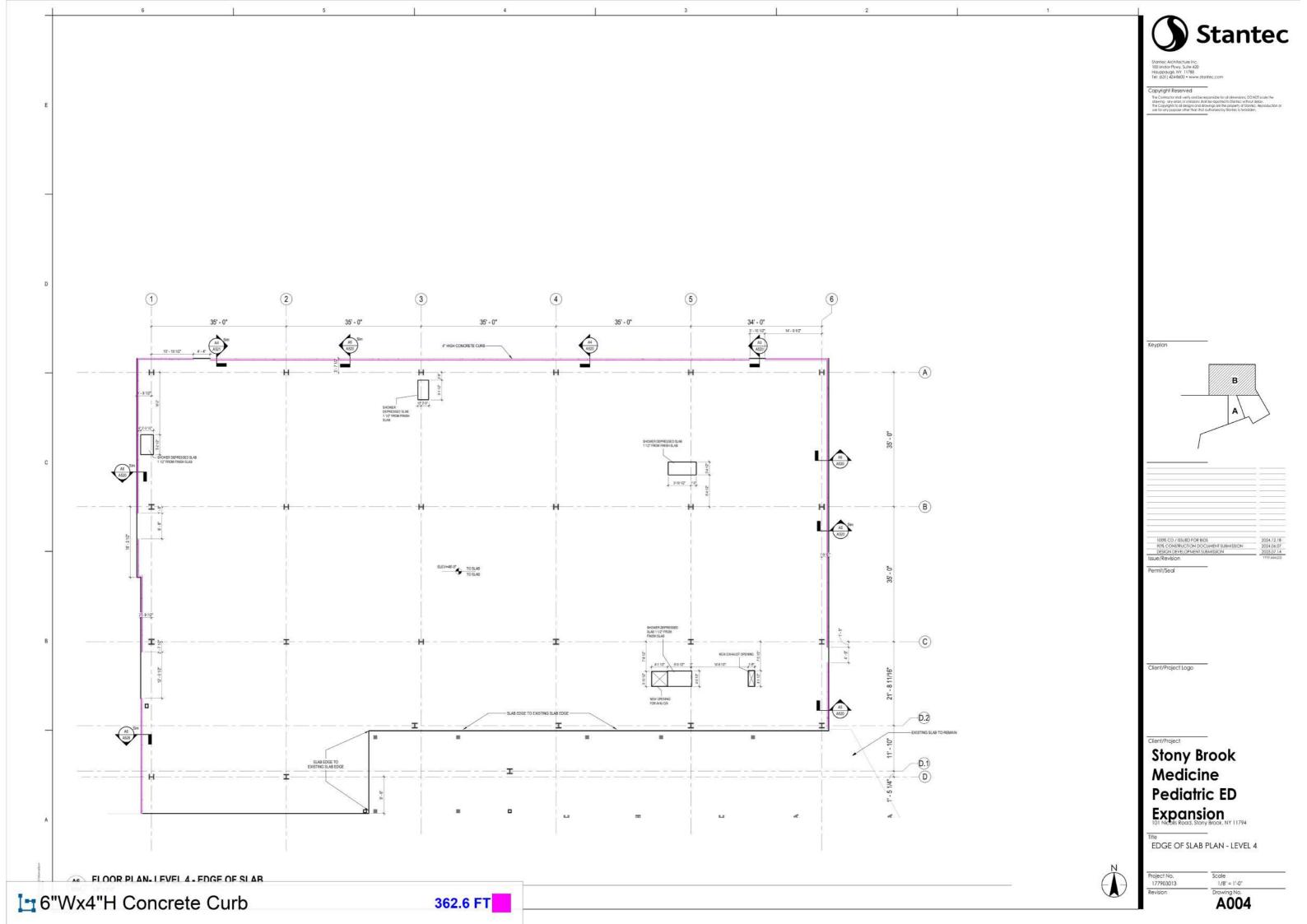
3 Valley Square Suite 302 Blue Bell, PA 19422 tel: (610) 490-4310

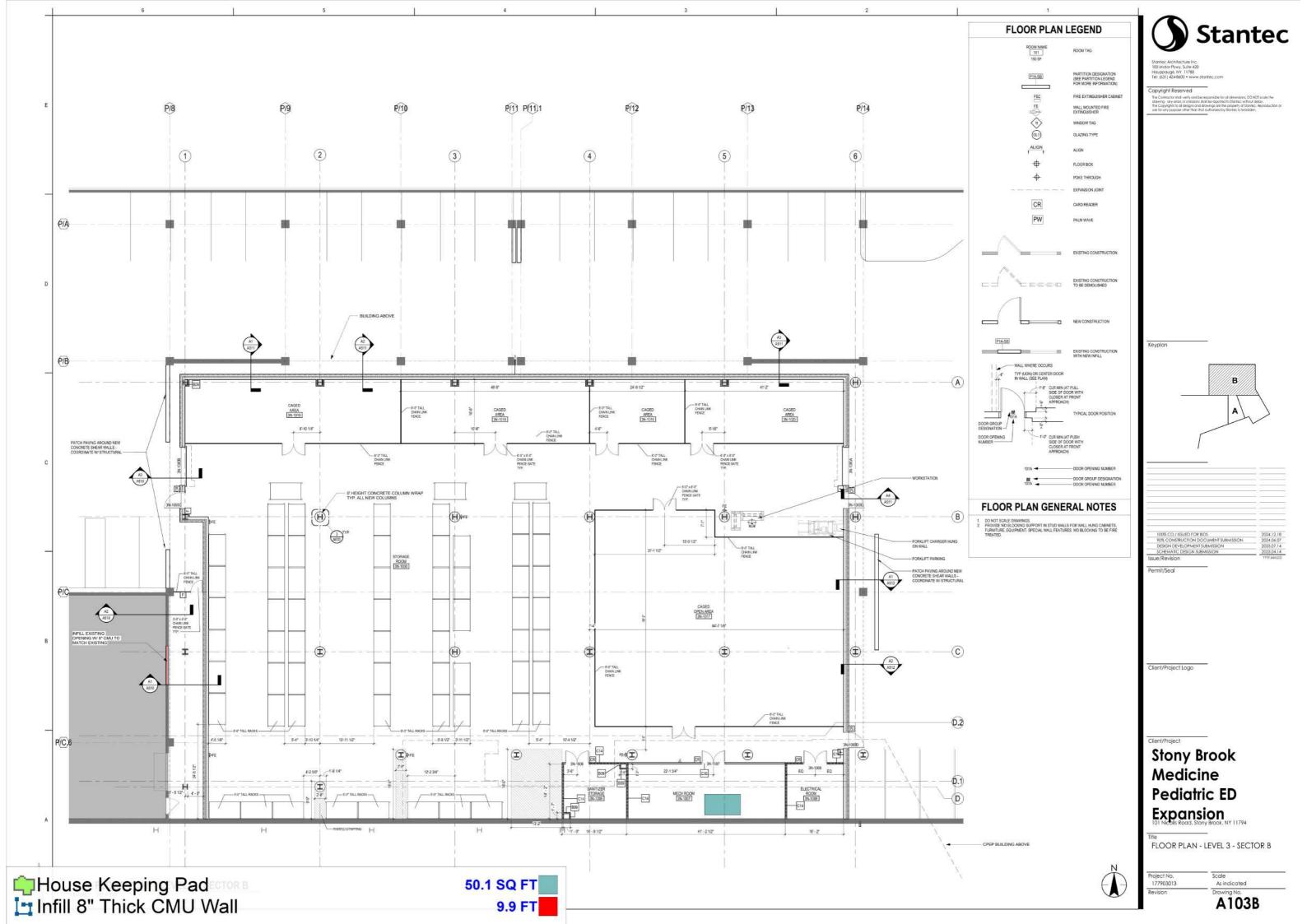
Stony Brook Medicine Pediatric ED Expansion

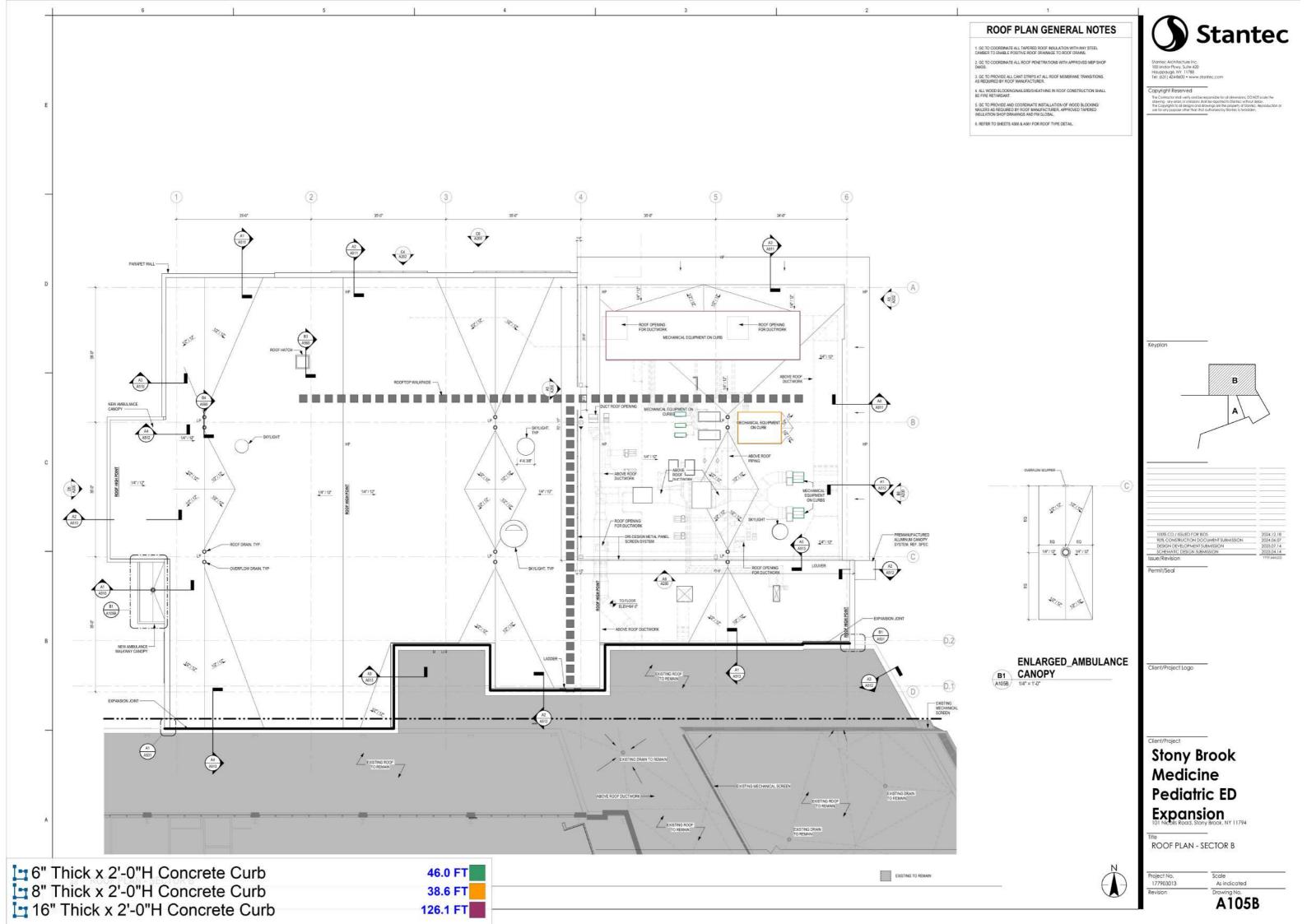
COVER SHEET

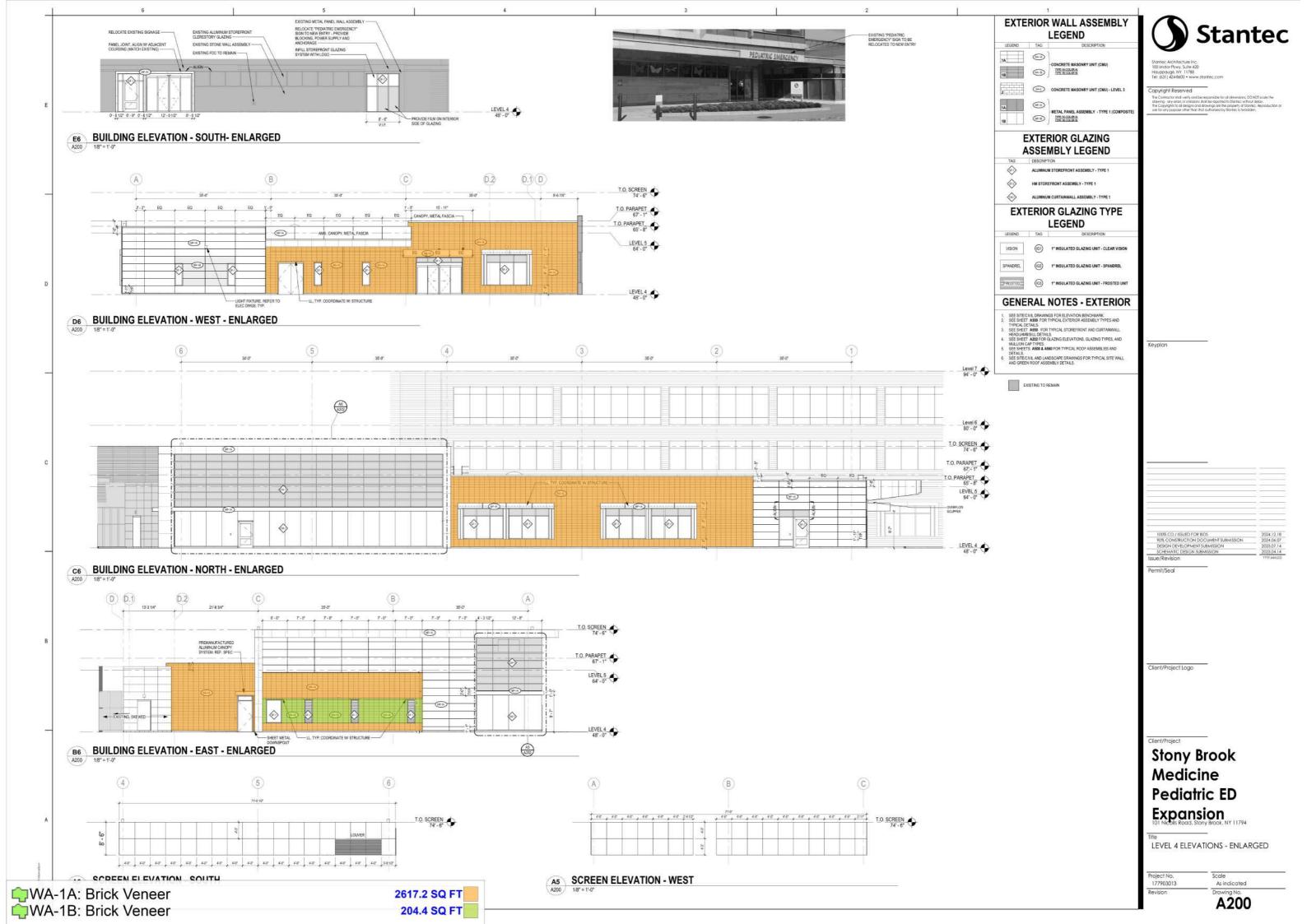
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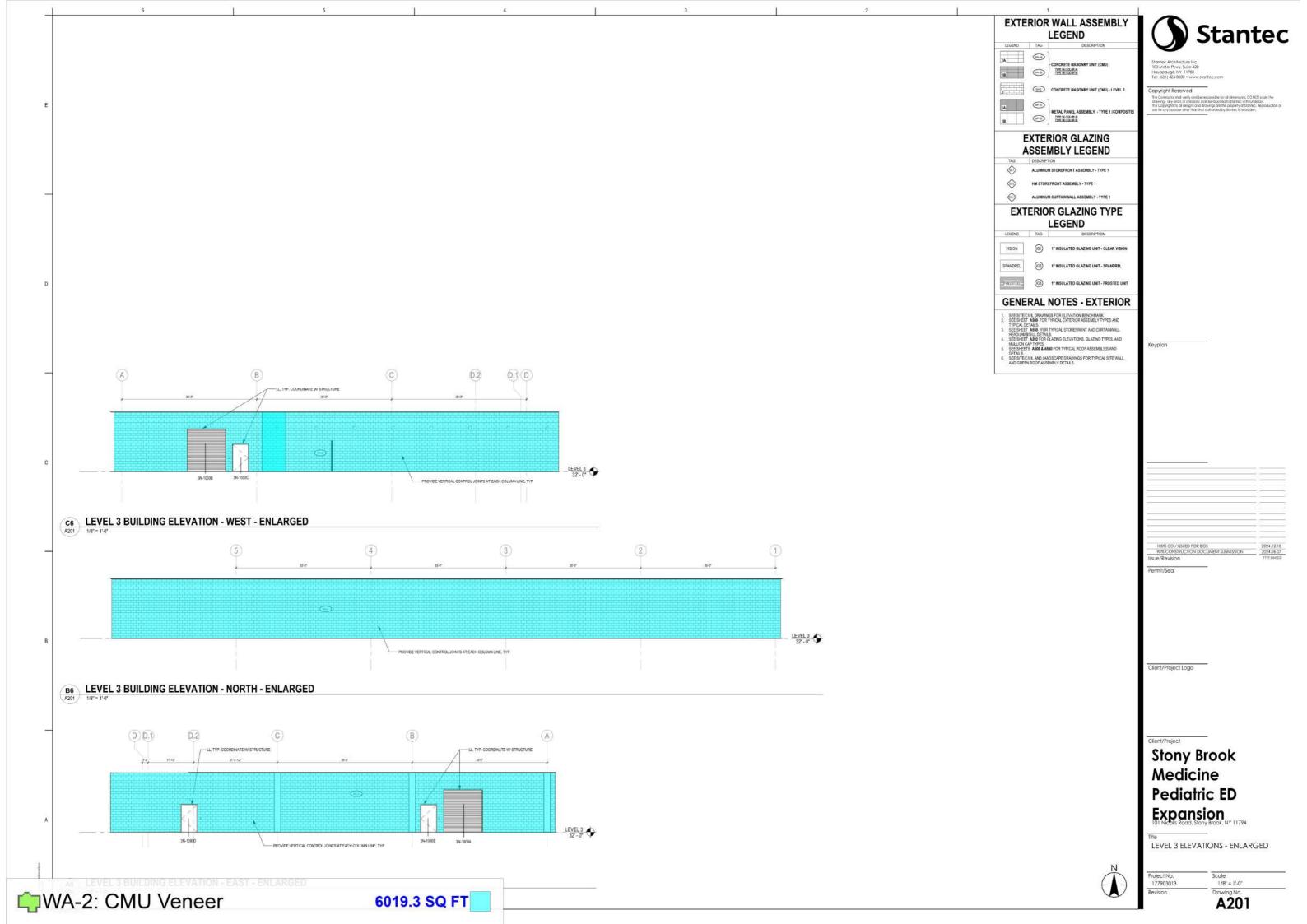
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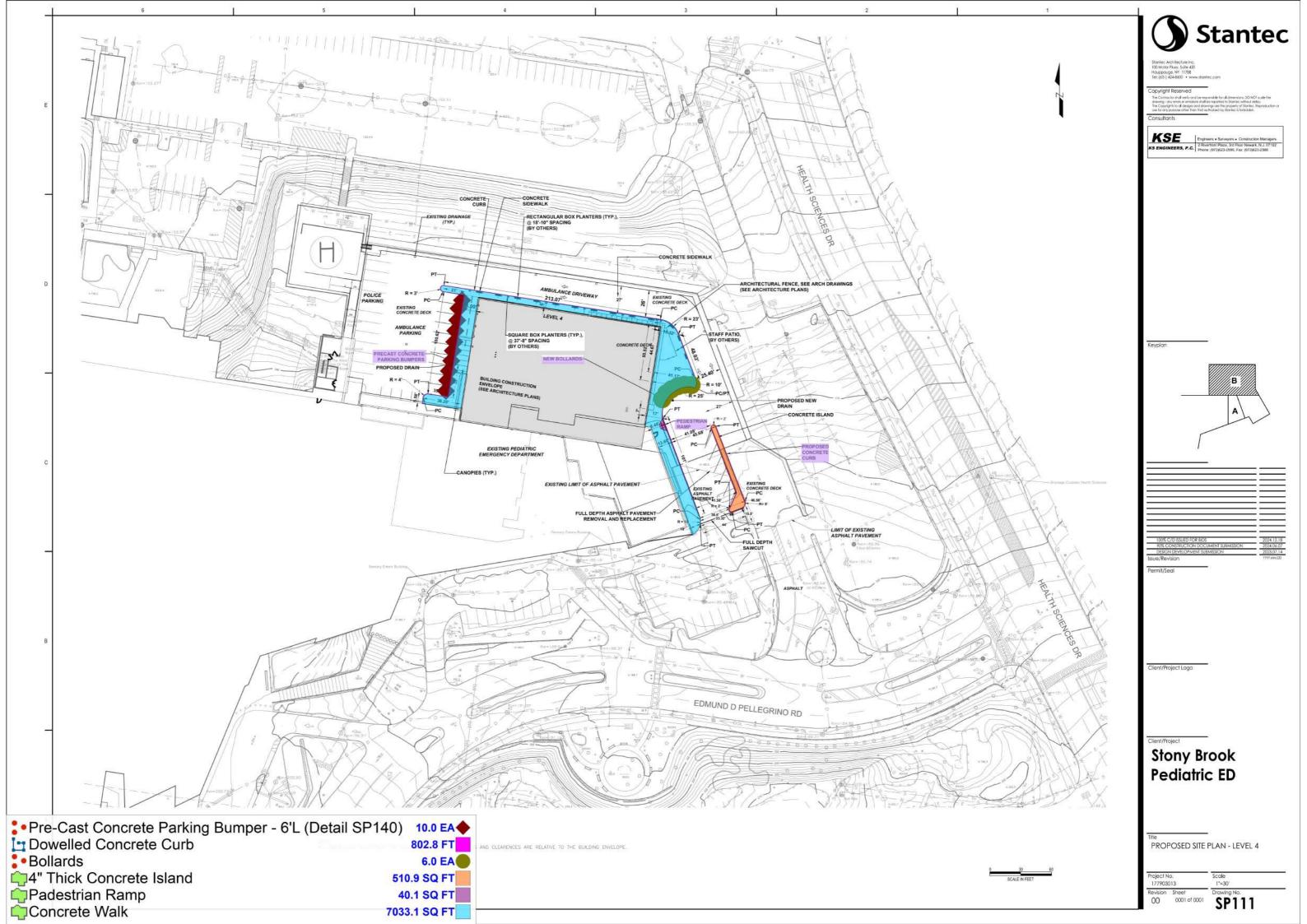


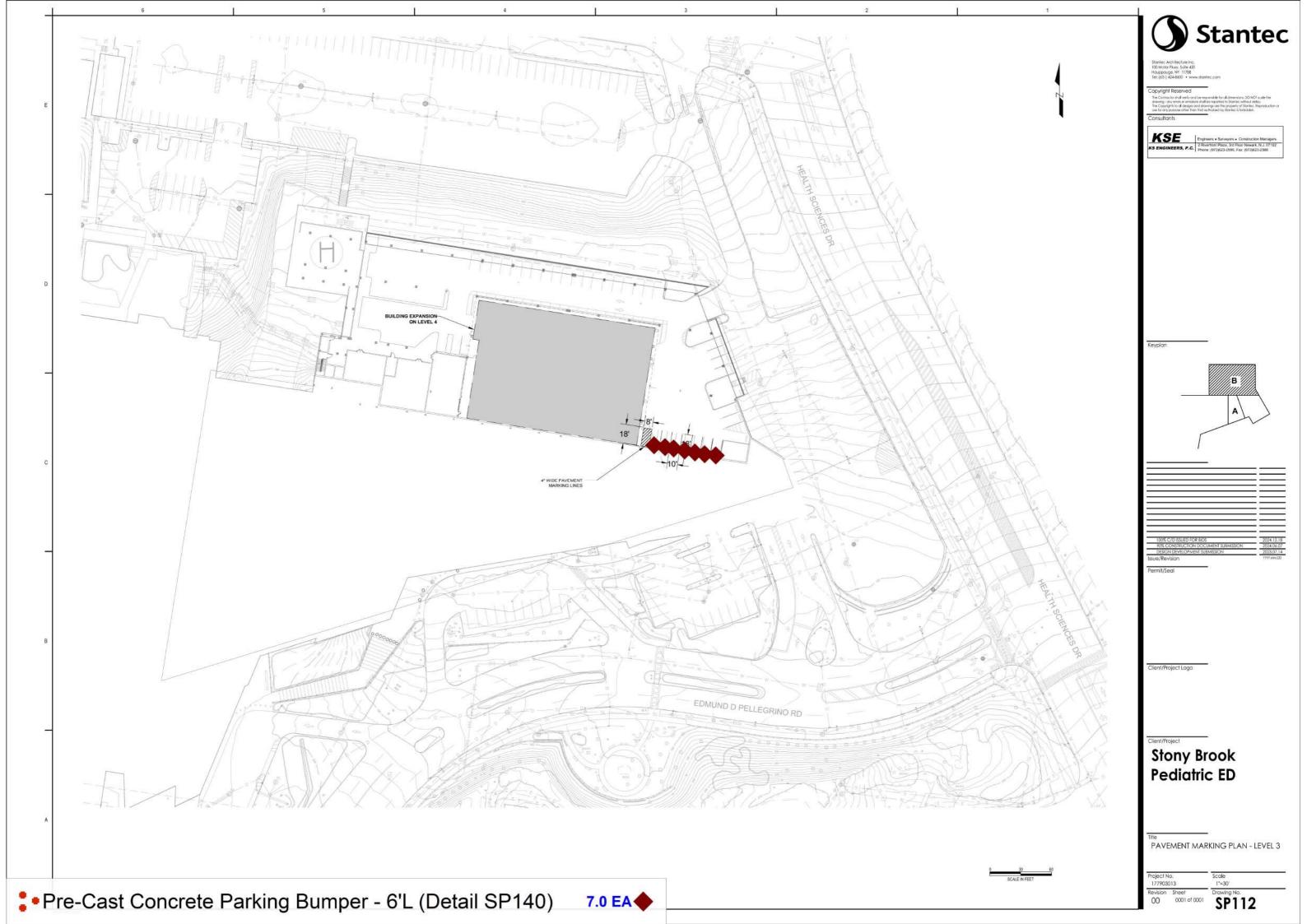












#### GENERAL NOTES

- ALL CONSTRUCTION SHALL BE PERFORMED ACCORDING TO THE APPROVED PLAN AND IN CONFORMANCE WITH THE REQUIREMENTS OF THE NEW YORK STATE BUILDING CODE CURRENT EDITION, ALL APPLICABLE FEDERAL AND LOCAL CODES, STANDARDS REGULATION AND LAWS.
- NO WORK SHALL COMMENCE ON THIS PROJECT UNTIL ALL NECESSARY PERMITS ARE OBTAINED.
- THE CONTRACTOR SHALL MAKE SURE OF ALL THE SAFETY PRECAUTIONS DURING THE CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE FOR HIS/HER MEANS AND METHODS OF CONSTRUCTION
- THE CONTRACTOR SHALL EXPLORE IF THERE EXISTS ANY BURIED STRUCTURE, PIPES AND UTILITIES IN THE ZONE OF CONSTRUCTION. IF FOUND, THE CONTRACTOR SHALL INFORM THE ENGINEER AND TAKE NECESSARY MEASURE TO REMOVE, REPLACE OR RELOCATE THEM ACCORDING TO THE NEW YORK STATE RULES.
- THE CONTRACTOR SHALL KEEP PREMISES CLEAN AT ALL TIMES, AND REMOVE ALL CONSTRUCTION DEBRIS.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS AT THE JOB SITE AND COMPARE WITH ALL THE RELEVANT DRAWINGS, AND REPORT TO THE DESIGNER IF THERE IS ANY DISCREPANCY, AND PERFORM THE WORK PROPERLY.
- NO TREE WILL BE CUT FROM THE SITE UNLESS PERMITTED.
  CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS AND EQUIPMENT AS REQUIRED TO PROPERLY AND FULLY COMPLETE THE WORK AS INDICATED IN THE DRAWINGS AND
- THE CONTRACTOR SHALL GET THE MATERIAL APPROVED BY THE OWNER/ENGINEER.
- CONTRACTOR SHALL PROVIDE ALL LIFE SAFETY SYSTEMS INCLUDING BUT NOT LIMITED TO TEMPORARY LIGHTING BARRICADES, GUARD RAILS AND VENTILATION SYSTEMS REQUIRED BY LOCAL, STATE AND FEDERAL JURISDICTIONS.
- 12. ALL PRECAUTIONS SHALL BE TAKEN TO PREVENT DIRT AND DUST FROM PENETRATING
- OTHER PARTS OF HE BUILDING DURING THE PROGRESS OF THE WORK.

  13. CONTRACTOR SHALL IDENTIFY ALL NEW EXPOSED PIPES, VALVES, AND CONDUITS WITH STAMPED METAL TAGS AND SHALL LABEL ELECTRIC PANEL BOXES WITH CIRCUIT DESIGNATIONS UPON COMPLETION OF WORK.
- 14. THE CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF ALL CONDITIONS AND DIMENSIONS AND REPORT TO THE ENGINEER/ARCHITECT SHOULD THERE BE ANY
- DISCREPANCY PRIOR TO PROCEED WITH THE CONSTRUCTION WORK.
  ALL MATERIALS SHALL BE IN COMPLIANCE WITH THE NEW YORK STATE BUILDING CODES.
- 16. ITEMS OF CONTROLLED INSPECTIONS AS REQUIRED BY NEW YORK BUILDING CODE SHALL BE INSPECTED AND/OR TESTED IN COMPLIANCE WITH THE CODE REQUIREMENTS.
- 17. ALL FINISHED CONDITIONS SHALL COMPLY WITH APPLICABLE SECTIONS OF NEW YORK
- FIRE AND BUILDING CODES AND ZONING REGULATIONS, U.N.O.

  18. CONTRACTOR SHALL REPAIR BACK TO ORIGINAL INTEGRITY, ANY DAMAGE TO PROPERTY
- DUE TO ANY WORK.
  ALL NEW WORK SHALL COMPLY WITH THE MATERIALS AND METHODS REQUIREMENTS IN THE NEW YORK STATE BUILDING CODE, IECC, IMC AND IPC, AS APPLICABLE, THAT SPECIFY MATERIAL STANDARDS, DETAILS OF INSTALLATION AND CONNECTION, JOINTS, PENETRATIONS, AND CONTINUITY OF ANY ELEMENT, COMPONENT, OR SYSTEM IN THE
- 20. ALL EQUIPMENT, APPLIANCE AND FURNITURE SHALL BE OF INDUSTRY STANDARDS

#### FOUNDATION NOTES:

- 1. FOUNDATION DESIGN SHALL BE PERFORMED BASED ON STATE OF ART AND PRACTICES IN THE INDUSTRY AND THE GEOTECHNICAL INVESTIGATION REPORT.
  FOUNDATION EXCAVATION SHALL NOT EXCEED THE BOTTOM OF FOOTING ELEVATION.
- HOWEVER, THE SOIL AT THE BOTTOM OF EXCAVATION SHALL BE MADE WELL COMPACTED IF FOUND LOOSE.
- A LAYER OF COMPACTED GRAVEL SHALL BE PLACED BELOW THE CONCRETE FOOTING. THE CONTRACTOR SHALL NOT POUR ANY FOOTING UNTIL THE SUBGRADE AND REINFORCEMENT ARE INSPECTED.
- FOR MICROPILE CONSTRUCTION FOLLOW THE RELEVENT NOTES AND SPECIFICATIONS.

#### DRILLED MICROPILES:

- 1. MICROPILES SHALL BE DESIGNED AND CONSTRUCTED AS SHOWN ON THE CONTRACT PLANS AND IN ACCORDANCE WITH SPECIFICATIONS.
- THE PERMANENT STEEL CASING/PIPE SHALL MEET THE TENSILE REQUIREMENTS OF ASTM A252, GRADE 3, EXCEPT THE YIELD STRENGTH SHALL BE A MINIMUM OF 80 KSI.
- PERMANENT STEEL CASING WILL BE THREADED AS PER THE SPECIFICATION. THE THE JOINTS SHALL DEVELOP AT LEAST THE REQUIRED NOMINAL RESISTANCE USED IN THE DESIGN OF THE MICROPILES.
- REBAR SHALL BE MADE OF HIGH-STRENGTH STEEL WITH A MINIMUM YIELD STRENGTH OF 80 KSI. REBAR SHALL BE CONTINUOUS-THREAD STEEL BARS AND CONFORM TO ASTM A706 OR ASTM A615 STANDARDS.
- REBAR SHALL BE COATED WITH EPOXY OR GALVANIZED TO PROVIDE CORROSION RESISTANCE.
- CENTRALIZERS AND SPACERS SHALL BE USED TO KEE THE REBAR AT THE CENTER OF
- NEAT CEMENT OR SAND/CEMENT MIXTURE WITH A MINIMUM 3-DAY COMPRESSIVE STRENGTH OF 2000 PSI AND A 28-DAY COMPRESSIVE STRENGTH OF 5000 PSI SHALL BE USED FOR GROUTING THE MICROPILES.
- 8. THE CENTER OF MICROPILE SHALL BE WITHIN THE TOLERABLE LIMIT INDICATED ON
- THE PILES SHALL BE PLUMB WITHIN TOLERABLE LIMITS.
- 10. PILE TOP ELEVATION SHALL BE WITH TOLERABLE LIMITS FROM VERTICAL ELEVATION INDICATED
- 11. THE CENTER OF REINFORCING STEEL SHALL NOT BE MORE THAN % INCH FROM CENTER OF THE PILE.

#### CONCRETE NOTES:

- ALL CONCRETE SHALL BE CONTROLLED CONCRETE IN ACCORDANCE WITH NEW YORK STATE BUILDING CODE.
- CONCRETE FOR THE FOUNDATION SHALL BE NORMAL WEIGHT STONE CONCRETE AND SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 5,000 PSI IN 28 DAYS.

#### REINFORCEMENT NOTES:

- ALL REINFORCING BARS SHALL BE DEFORMED BARS CONFORMING TO "SPECIFICATION FOR DEFORMED BILLET-STEEL BARS FOR CONCRETE REINFORCEMENT" ASTM A615 GRADE 60. UNLESS NOTED OTHERWISE ON PLANS OR SPECIFICATIONS.
- ALL REINFORCING BARS SHALL BE FREE OF LOOSE FLAKY RUST, MUD, OIL OR OTHER COATING THAT WILL DESTROY, REDUCE OR HAMPER FULL BOND CAPACITY
- PLACING REINFORMENT SHALL CONFORM TO SECTION 7.5 AND SPACING OF BARS TO SECTION 7.6 OF ACI 318-11.
- PROVIDE MINIMUM CONCRETE PROTECTION TO REINFORMENT AS AS SHOWN IN SECTINS AND DETAILS BUT NOT LESS THAN REQUIRED BY SECION 7.7 OF THE ACI 318-11.
- STEEL REINFORCEMENT SHALL CONFORM TO ASTM A-615, GRADE 60.
  CLEAR COVER SHALL BE MINIMUM 3 INCHES ON THE SIDES EXPOSED TO GROUND OR ENVIRONMENT, AND 1 1 INCHES FOR OTHER LOCATIONS.
- TEMPERATURE REINFÖRCEMENT SHALL BE PLACED PERPENDICULAR TO MAIN

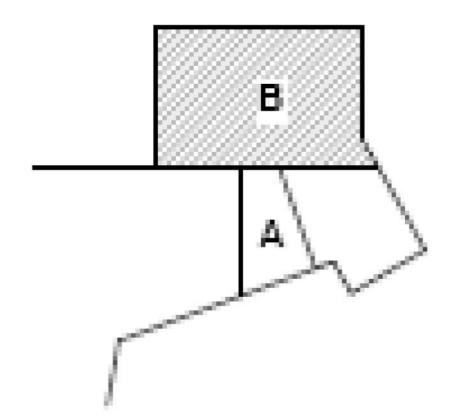
#### SOIL EROSION AND SEDIMENT CONTROL NOTES:

- ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE INSTALLED IN ACCORDANCE WITH THE NEW JERSEY STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL, AND WILL BE IN PLACE PRIOR TO ANY MAJOR SOIL DISTURBANCE, AND FOUNDATION CONSTRUCTION.
- ANY DISTURBED AREA THAT WILL BE LEFT EXPOSED FOR MORE THAN THIRTY (30) DAYS AND NOT SUBJECT TO CONSTRUCTION TRAFFIC SHALL IMMEDIATELY RECEIVE A TEMPORARY SEEDING. IF THE SEASON PROHIBITS TEMPORARY SEEDING. THE DISTURBED AREA WILL BE MULCHED WITH STRAW OR HAY AND TACKED IN ACCORDANCE WITH NEW YORK STANDARDS
- PERMANENT VEGETATION IS TO BE ESTABLISHED ON EXPOSED AREAS WITHIN TEN (10) DAYS AFTER FINAL GRADING. MULCH IS TO BE USED FOR PROTECTION UNTIL VEGETATION
- IMMEDIATELY FOLLOWING INITIAL DISTURBANCE OR ROUGH GRADING ALL CRITICAL
- AREAS SUBJECT TO EROSION WILL RECEIVE A TEMPORARY SEEDING.
  TEMPORARY DIVERSION BERMS ARE TO BE INSTALLED ON ALL CLEARED ROADWAYS AND
- EASEMENT AREAS.
  PERMANENT SEEDING AND STABILIZATION TO BE IN ACCORDANCE WITH THE "STANDARDS
- FOR PERMANENT VEGETATIVE COVER."

  ALL SEDIMENTATION STRUCTURES (SILT FENCE, INLET FILTERS, AND SEDIMENT BASINS)
- SHALL BE INSPECTED AND MAINTAINED REGULARLY.
  DURING AND AFTER CONSTRUCTION, THE OWNER OR OWNER'S REPRESENTATIVE WILL BE RESPONSIBLE FOR THE MAINTENANCE AND UPKEEP OF THE DRAINAGE STRUCTURES. VEGETATIVE COVER, AND ANY OTHER MEASURES DEEMED APPROPRIATE BY THE CITY

#### SPECIAL INSPECTION NOTES

- THE FOLLOWING MATERIALS AND METHODS OF CONSTRUCTION SHALL BE SUBJECT TO "SPECIAL AND PROGRESS INSPECTION" IN ACCORDANCE WITH NEW YORK STATE **BUILDING CODE** 
  - MICROPILES CONSTRUCTION INSPECTION SUBGRADE INSPECTION
- FOOTING RAINFORCEMENT
- CAST IN PLACE CONCRETE FOR PILE CAP
- A SPECIAL INSPECTOR HIRED BY THE OWNER SHALL BE ENGAGED FOR THE TESTING AND INSPECTION OF THE ABOVE ITEMS. THE INSPECTOR SHALL HAVE QUALIFICATIONS IN ACCORDANCE WITH NEW YORK STATE RULES.
- THE CONTRACTOR SHALL INFORM THE INSPECTOR FOR ALL ITEMS REQUIRING INSPECTION A MINIMUM OF 72 HOURS PRIOR TO COMMENCEMENT OF THAT PORTION OF WORK, FOR ON-GOING INSPECTIONS THE CONTRACTOR SHALL PROVIDE 24 HOURS ADVANCE NOTICE BEFORE INSPECTION.
- THE CONTRACTOR SHALL PROVIDE SAFE ACCESS AND MEANS TO ALLOW THE ABOVE TESTING AND/OR INSPECTION REQUIREMENTS TO BE COMPLETED IN A MANNER CONSISTENT WITH APPLICABLE OSHA, AND LOCAL REQUIREMENT. THE CONTRACTOR SHALL PROVIDE SCAFFOLDING, PERSONNEL HOISTS OR ANY OTHER EQUIPMENT NECESSARY TO ACCESS AREAS SUBJECT TO INSPECTIONS.
- INSPECTION DOES NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY TO PROVIDE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND PROVIDE THE CONTRACTORS INDEPENDENT QUALITY CONTROL. THE INSPECTOR IS NOT RESPONSIBLE FOR PROVIDING "QUALITY CONTROL" SERVICES FOR THE CONTRACTOR





rime Consultant

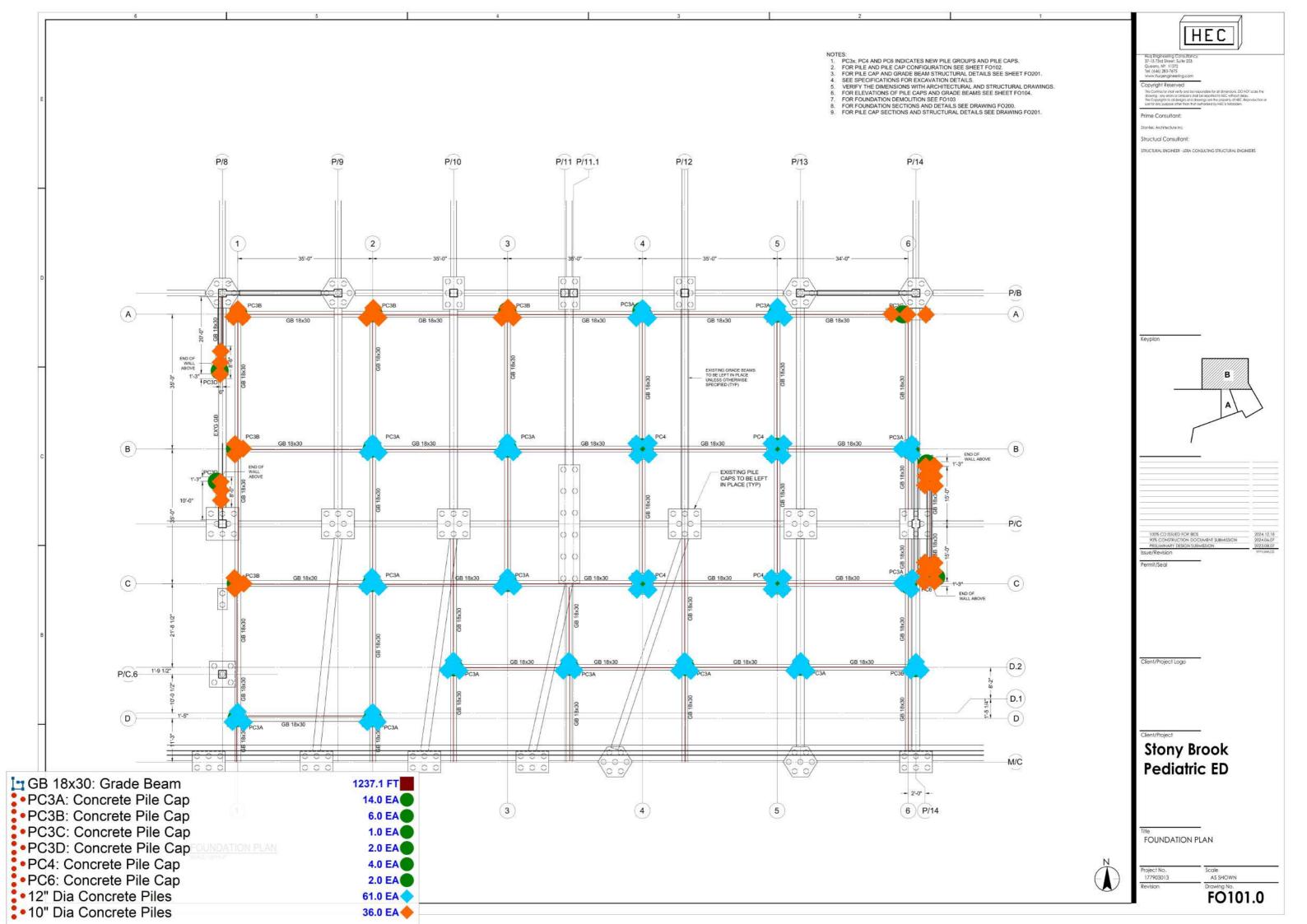
Structual Consultant

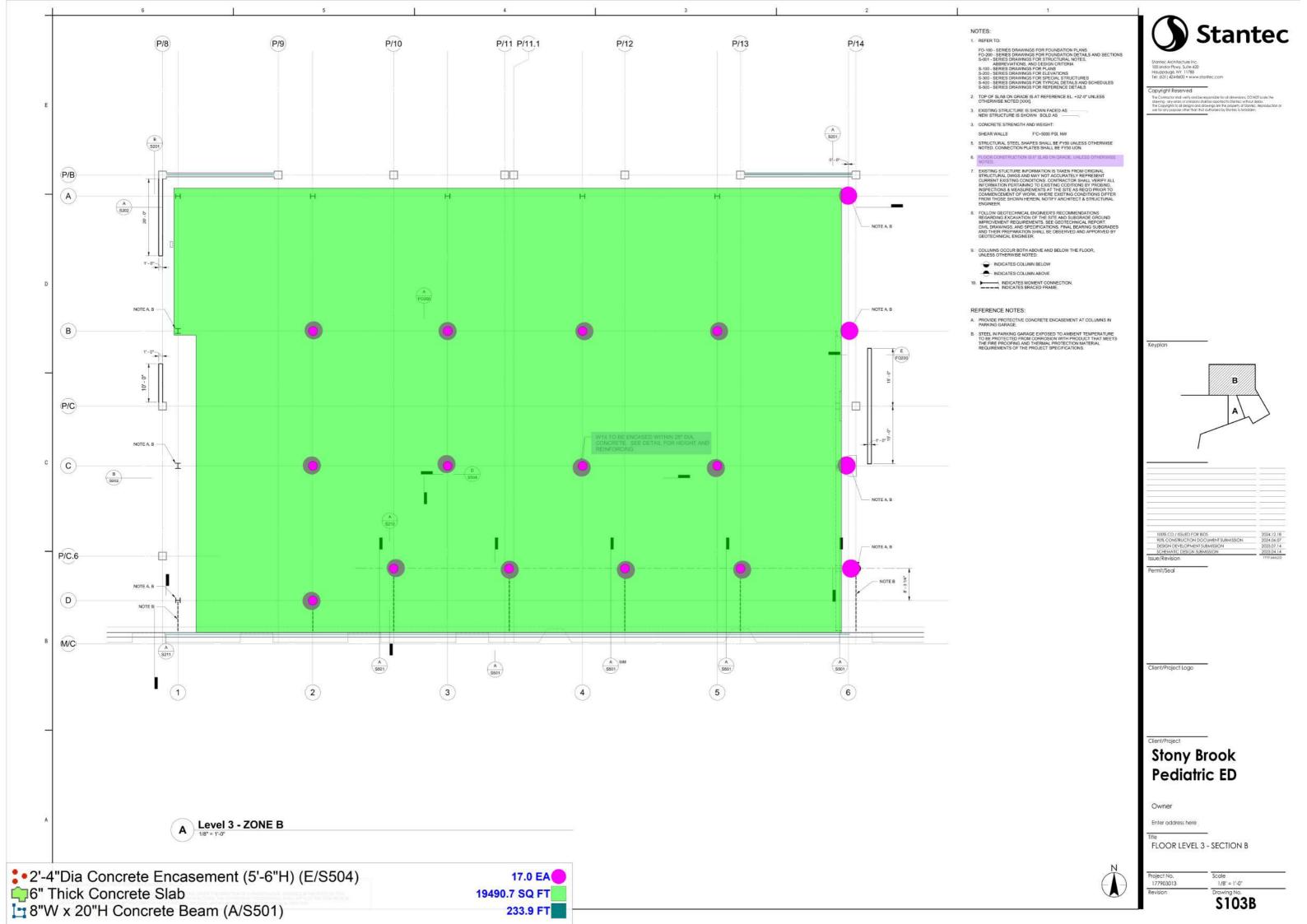
Stony Brook Pediatric ED

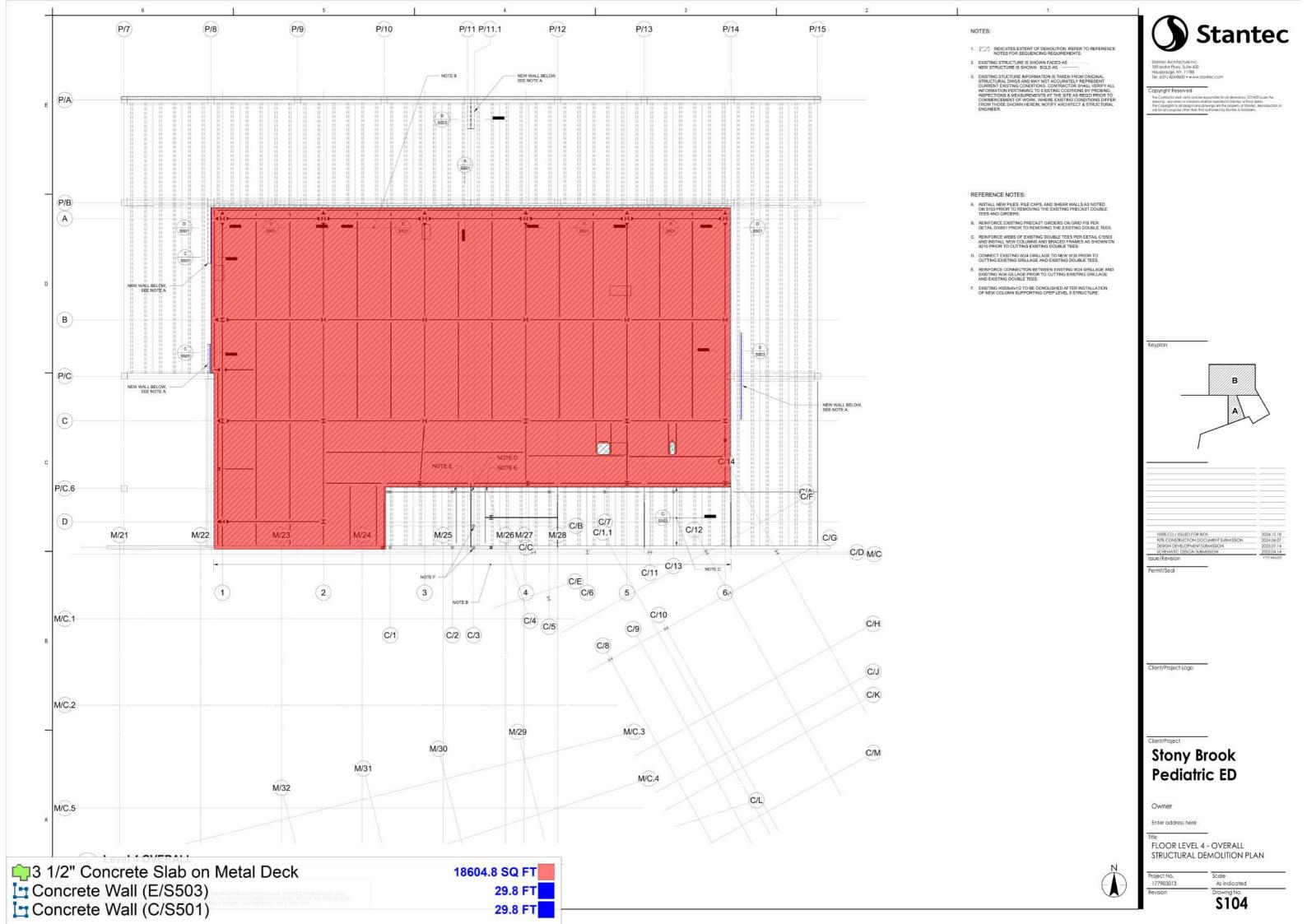
**FOUNDATION NOTES** 

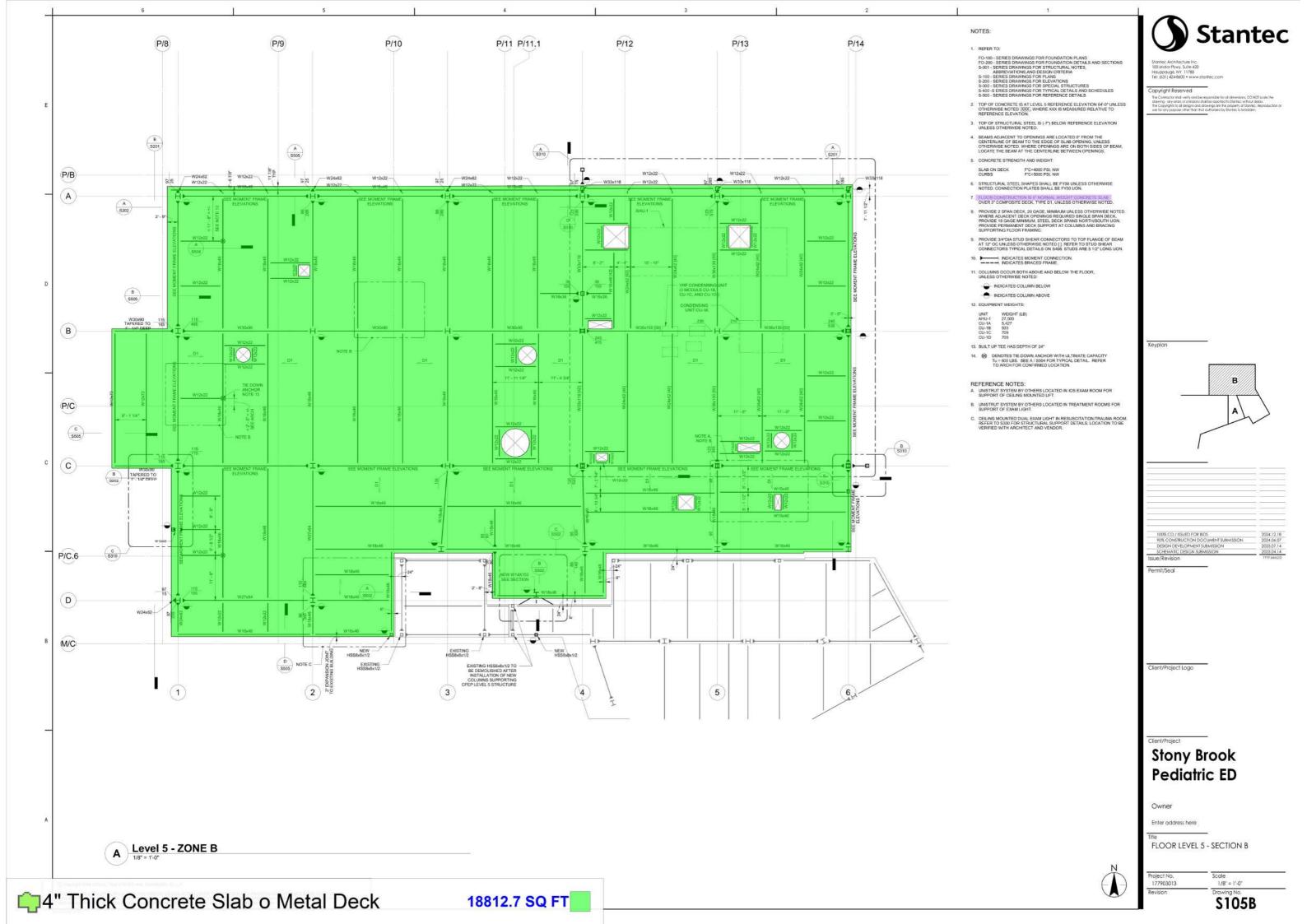
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PLUMBING DEMOLITION NOTES Stantec **KEYED DRAWING NOTES** M/C.3 **Stony Brook** Pediatric ED DRAINAGE DEMOLITION FLOOR PLAN
- Level 3 - SECTOR A DRAINAGE DEMOLITION FLOOR PLAN -PD113A nfill Slab @ Trench 421.7 SQ FT

**GENERAL PLUMBING NOTES KEYED DRAWING NOTES** M/C.3 M/C.4 **Stony Brook** Pediatric ED DRAINAGE FLOOR PLAN - Level 3 -SECTOR A DRAINAGE FLOOR PLAN - Level 3 infill Slab @ Trench P113A 241.0 SQ FT

Stantec