

DESIGN DATA:

STRUCTURAL DESIGN HAS BEEN PERFORMED IN ACCORDANCE WITH THE FOLLOWING CODES AND STANDARDS:
A) 2020 NEW YORK STATE BUILDING CODE.
B) ACI 318-14, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
C) AISC, MANUAL OF STEEL CONSTRUCTION, ALLOWABLE STRESS DESIGN, 14TH ED.

- 1. DEAD LOADS
SELF WEIGHT +
ROOF: 10 PSF
CEILING: 10 PSF
FLOOR: 15 PSF
2. LIVE LOADS
FLOOR - 100 PSF
3. WIND LOADS
BASIC WIND SPEED: 115 MPH (3-second gust)
RISK CATEGORY: III
EXPOSURE CATEGORY: B
4. SNOW LOADS
GROUND SNOW LOAD: 30 PSF
DESIGN FLAT ROOF SNOW LOAD: 30 PSF
5. SEISMIC
RISK CATEGORY: III
SITE CLASS: D
Sds: 0.264g
Sd1: 0.093g
SEISMIC DESIGN CATEGORY: B

GENERAL INFORMATION:

(UNLESS OTHERWISE NOTED OR SHOWN ON PLAN, THE FOLLOWING SHALL APPLY)

"LOADS" INDICATED ON THIS DRAWING ARE THOSE FOR THE DESIGN OF THE BUILDING SUPERSTRUCTURE

- 1. ALL DETAILS MARKED "TYPICAL" IN THE SET OF STRUCTURAL DRAWINGS SHALL BE APPLIED THROUGHOUT THE PROJECT AS REQUIRED TO SATISFY THE REQUIREMENTS OF THE CONSTRUCTION DOCUMENTS.
2. FAILURE ON THE PART OF THE CONTRACTOR TO REVIEW THE DRAWINGS OF OTHER DISCIPLINES...
3. ALL CONTRACTORS AND SUBCONTRACTORS WORKING ON THIS PROJECT TO HAVE A MINIMUM OF 5 YEARS VERIFIABLE EXPERIENCE...
4. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN FIELD PRIOR TO ORDERING AND PRE-FABRICATED ITEMS...
5. DRAWINGS MAY NOT BE SCALED. USE NOTES AND DIMENSIONS SPECIFIED ON DRAWINGS...
6. DISCREPANCIES, OMISSIONS OR UNFORESEEN PROBLEMS DISCOVERED AT SITE SHALL BE REPORTED TO THE ENGINEER...
7. TEMPORARY SHORING AND SHORING OF EXCAVATION IS BY OTHERS...

CAST-IN-PLACE CONCRETE GENERAL NOTES:

(UNLESS OTHERWISE NOTED OR SHOWN ON PLAN, THE FOLLOWING SHALL APPLY)

- 1. CONCRETE WORK SHALL CONFORM WITH THE REQUIREMENTS OF THE AMERICAN CONCRETE INSTITUTE ACI 318 (LATEST EDITION).
2. UNLESS OTHERWISE INDICATED ON DRAWINGS, CAST-IN-PLACE CONCRETE SHALL DEVELOP A STRENGTH OF 3,500 PSI (FOOTINGS, FOUNDATION WALLS AND RETAINING WALLS); 3,500 PSI (SLAB ON GRADE) AT 28 DAYS.
3. TEMPERATURE REINFORCING SHALL BE SUFFICIENTLY EMBEDDED TO DEVELOP FULL STRENGTH IN CONCRETE WALLS AND SLABS.
4. PROVIDE ADEQUATE TIES FOR REINFORCEMENT IN SLABS, BEAMS, PIERS AND WALLS.
5. FOLLOW C.R.S.I. RULES FOR PLACING OF REINFORCING STEEL AND ACCESSORIES.
6. THIS CONTRACTOR SHALL COOPERATE WITH OTHER TRADES AND WHERE REQUIRED INSTALL ALL BUILT-IN WORK, SLEEVES, INSERTS, ETC., AS REQUIRED FOR A COMPLETE JOB.
7. STRUCTURAL MEMBERS SHALL BE POURED FOR THEIR FULL DEPTHS IN ONE OPERATION.
8. NO HORIZONTAL JOINTS SHALL BE PLACED IN WALLS EXCEPT AS SHOWN ON THE DRAWINGS.
9. STRUCTURAL SLABS ON GRADE SHALL BE OF A THICKNESS AND REINFORCED AS INDICATED ON DRAWINGS.
10. SLABS-ON-GRADE SHALL HAVE THICKENINGS, DEPRESSIONS, OPENINGS, ETC., AS REQUIRED OR AS SHOWN HEREIN OR ON ARCHITECTURAL DRAWINGS.
11. PROVIDE 100% CONTINUITY OVER SUPPORTS FOR CONTINUOUS SLABS AND BEAMS.
12. TOP ELEVATION OF SLABS SHALL VARY ACCORDING TO FINISH FLOOR MATERIAL.
13. SEE MECHANICAL AND ARCHITECTURAL DRAWINGS FOR SIZE AND LOCATION OF OPENINGS IN, FLOORS AND WALLS NOT SHOWN ON STRUCTURAL DRAWINGS.
14. MAXIMUM STEP OF FOOTINGS SHALL BE ONE VERTICALLY TO TWO HORIZONTALLY WHERE ELEVATIONS CHANGE.
15. CONCRETE SHALL CONSIST OF THE FOLLOWING:
- READY MIX CONCRETE (ASTM C94)
- MAX WATER TO CEMENT RATIO = 0.50
- MAX AGGREGATE CONTENT SIZE OF 3/4 INCH (ASTM C33)
- MAX SLUMP OF 5" + OR - AN INCH (ASTM C143)
- PORTLAND CEMENT: ASTM-C 150, TYPE 1
- CLEAN POTABLE DRINKING WATER
- AIR CONTENT TO BE 6% +/- 1.5% (INTERIOR SLABS TO HAVE 0% AIR)
16. REINFORCING STEEL SHALL CONSIST OF THE FOLLOWING:
- REINFORCING BARS: ASTM -A 615 GRADE 60 KSI
- WELDED WIRE FABRIC: ASTM-A 185
17. PROVIDE CONTINUOUS REINFORCING WHEREVER POSSIBLE, PLACE ONLY AS SHOWN OR APPROVED, STAGGER SPLICES WHERE POSSIBLE.
18. ALL REINFORCING STEEL AND EMBEDMENT TO BE HELD SECURELY IN PLACE PRIOR TO PLACING CONCRETE.
19. DETAIL ACCORDING TO ACI STANDARD 315, MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCING CONCRETE STRUCTURES.
20. CONCRETE MEMBERS SHALL NOT BE LOADED UNTIL SATISFACTORY CONCRETE STRENGTH HAS BEEN OBTAINED.
21. NO ADMIXTURES MAY BE USED UNLESS PRIOR APPROVAL BY THE OWNER/ENGINEER.
22. COLD WEATHER REQUIREMENT SHALL BE USED DURING FREEZING OR NEAR FREEZING WEATHER - ACI 306.1-90.
23. DURING HOT WEATHER CONCRETE SHALL BE PLACED AND CURED IN ACCORDANCE WITH ACI 305.

WOOD FRAMING GENERAL NOTES:

(UNLESS OTHERWISE NOTED OR SHOWN ON PLAN, THE FOLLOWING SHALL APPLY)

- 1. ALL WOOD FRAMING MATERIAL SHALL BE SURFACED DRY AND USED AT 19% MAXIMUM MOISTURE CONTENT.
2. ALL PLYs OF MULTIPLE PLY BEAMS TO BE CONTINUOUS WITH NO JOINTS FROM SUPPORT POINT TO SUPPORT POINT.
3. ALL STUD AND WALL FRAMING SHALL BE EITHER OF THE FOLLOWING:
A. NO. 2 GRADE SOUTHERN YELLOW PINE (SYP)
B. NO. 2 GRADE SPRUCE-PINE-FIR (SPF)
4. ALL STUDS TO BE CONTINUOUS BETWEEN POINTS OF LATERAL SUPPORT.
5. ALL JOIST, RAFTER & MISC. FRAMING SHALL BE NO. 2 GRADE, DOUGLAS FIR.
6. ALL FRAMING EXPOSED TO THE WEATHER OR IN CONTACT WITH MASONRY OR CONCRETE SHALL BE PRESSURE-TREATED IN ACCORDANCE WITH THE AMERICAN WOOD PRESERVERS ASSOCIATION SPECIFICATION.
7. THE CONTRACTOR SHALL CAREFULLY SELECT LUMBER TO BE USED IN LOADBEARING APPLICATIONS.
8. PROVIDE DOUBLE JOISTS UNDER ALL PARTITIONS WHICH RUN PARALLEL WITH JOISTS AND UNDER ALL CONCENTRATED LOADS FROM FRAMING ABOVE.
9. PROVIDE HEADER BEAMS OF THE SAME SIZE AS JOISTS OR RAFTERS TO FRAME AROUND OPENINGS IN THE PLYWOOD DECK UNLESS OTHERWISE INDICATED.
10. STRUCTURAL STEEL PLATE CONNECTORS SHALL CONFORM TO ASTM A-36 SPECIFICATION AND BE 1/4" THICK UNLESS OTHERWISE INDICATED.
11. BOLT HOLES SHALL BE CAREFULLY CENTERED AND DRILLED NOT MORE THAN 1/16" LARGER THAN THE BOLT DIAMETER.
12. PREFABRICATED "MICROLLAM" LUMBER HEADERS AND BEAMS SHALL BE AS MANUFACTURED BY "ILEVEL BY WEYERHAEUSER."
13. PREFABRICATED METAL JOIST HANGERS, HURRICANE CLIPS, HOLD-DWN ANCHORS AND OTHER ACCESSORIES SHALL BE AS MANUFACTURED BY "SIMPSON STRONG-TIE COMPANY"
14. HOLES AND NOTCHES DRILLED OR CUT INTO WOOD FRAMING SHALL NOT EXCEED THE REQUIREMENTS OF LATEST EDITION OF THE INTERNATIONAL BUILDING CODE.
15. ALL PLATES, ANCHORS, NAILS, BOLTS, NUTS, WASHERS, AND OTHER MISCELLANEOUS HARDWARE SHALL BE HOT DIP GALVANIZED.



NEW YORK OKLAHOMA

KSQ Design
215 W 40th Street 13th Floor
New York, NY 10018
646.435.0660 office
www.ksqdesign.com

Owner

Nanuet Union Free School District
101 Church Street
Nanuet, NY 10954
845.627.9880
www.nanuetusd.org

Structural Engineer

Clapper Structural Engineering
160 Partition Street
Saugerties, NY 12477
845.943.9011
www.clapperstructural.com

MEP Engineer

Sage Engineering Associates, LLP
9 Columbus Circle
Albany NY 12203
518.453.6091
www.sageelp.com

Environmental Engineer

Quest Environmental Solutions
1376 Route 9
Wappingers Falls, NY 12590
845.298.6251
www.qualityenv.com

Construction Manager

Jacobs
One Penn Plaza
24th Floor, Suite 2400
New York, NY 10119
646.906.6560
www.jacobs.com



NUFSD BOND PROJECT PHASE 5 - OEC BUILDING

- SED#50-01-08-03-0-002-020 (HIGHVIEW ES)
SED#50-01-08-03-0-001-022 (Maintenance)
SED#50-01-08-03-0-001-004 (OED)
SED#50-01-08-03-0-001-026 (MILLER ES)
SED#50-01-08-03-0-004-022 (BARR MS)

- Highview Elementary School
24 Highview Ave
Nanuet, NY 10954
OEC Building
135 Convent Rd
Nanuet, NY 10954
Maintenance Building
103 Church St.
Nanuet, NY 10954
Miller Elementary School
50 Blauvelt Rd Unit1
Nanuet, NY 10954
A MacArthur Barr Middle School
143 Church St
Nanuet, NY 10954

KEY PLAN

REVISIONS

Table with 3 columns: No., Description, Date

ISSUED: BID SET

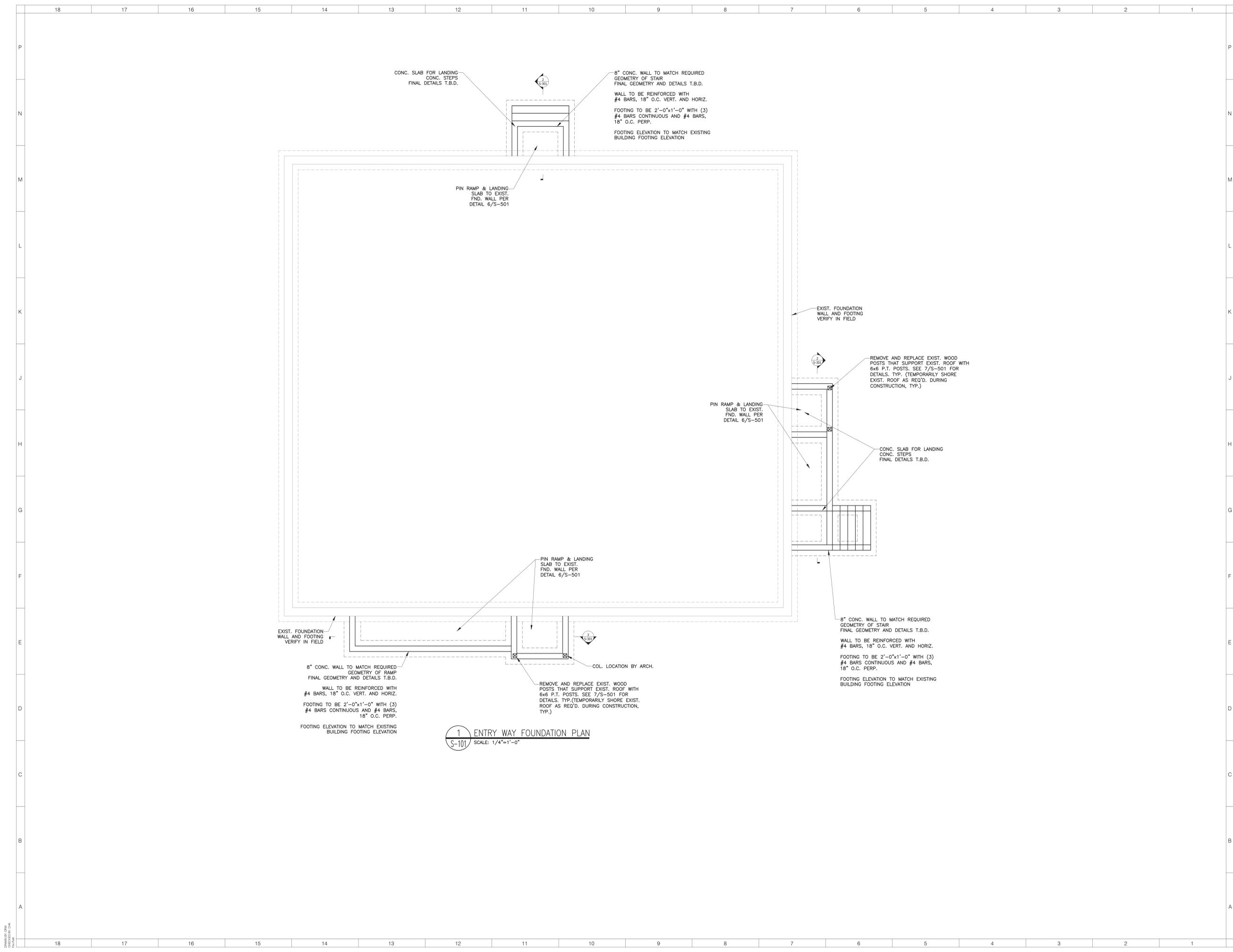
DATE: 06/21/2024

SCALE: AS NOTED

SHEET NAME: STRUCTURAL NOTES

SHEET NUMBER:

OEC-S001



1 ENTRY WAY FOUNDATION PLAN
 S-101 SCALE: 1/4"=1'-0"

ARCHITECT
ksqdesign
 NEW YORK OKLAHOMA

KSQ Design
 215 W 40th Street 10th Floor
 New York, NY 10018
 646.435.0660 office
 www.ksqdesign.com

Owner
Nanuet Union Free School District
 101 Church Street
 Nanuet, NY 10954
 845.627.9880
 www.nanuetd.org

Structural Engineer
Clapper Structural Engineering
 160 Partition Street
 Saugerties, NY 12477
 845.943.9801
 www.clapperstructural.com

MEP Engineer
Sage Engineering Associates, LLP
 9 Columbia Circle
 Albany NY 12203
 518.453.6091
 www.sagellp.com

Environmental Engineer
Quest Environmental Solutions
 1376 Route 9
 Wappingers Falls, NY 12590
 845.298.6251
 www.qualityenv.com

Construction Manager
Jacobs
 One Penn Plaza
 24th Floor, Suite 2400
 New York, NY 10119
 646.808.6550
 www.jacobs.com

NUFSD BOND PROJECT PHASE 5 - OEC BUILDING

SED#50-01-08-03-0-002-020 (HIGHVIEW ES)
 SED#50-01-08-03-0-001-022 (Maintenance)
 SED#50-01-08-03-0-001-026 (OEC)
 SED#50-01-08-03-0-001-026 (MILLER ES)
 SED#50-01-08-03-0-004-022 (BARR MS)

Highview Elementary School
 24 Highview Ave
 Nanuet, NY 10954

OEC Building
 135 Convent Rd
 Nanuet, NY 10954

Maintenance Building
 103 Church St.
 Nanuet, NY 10954

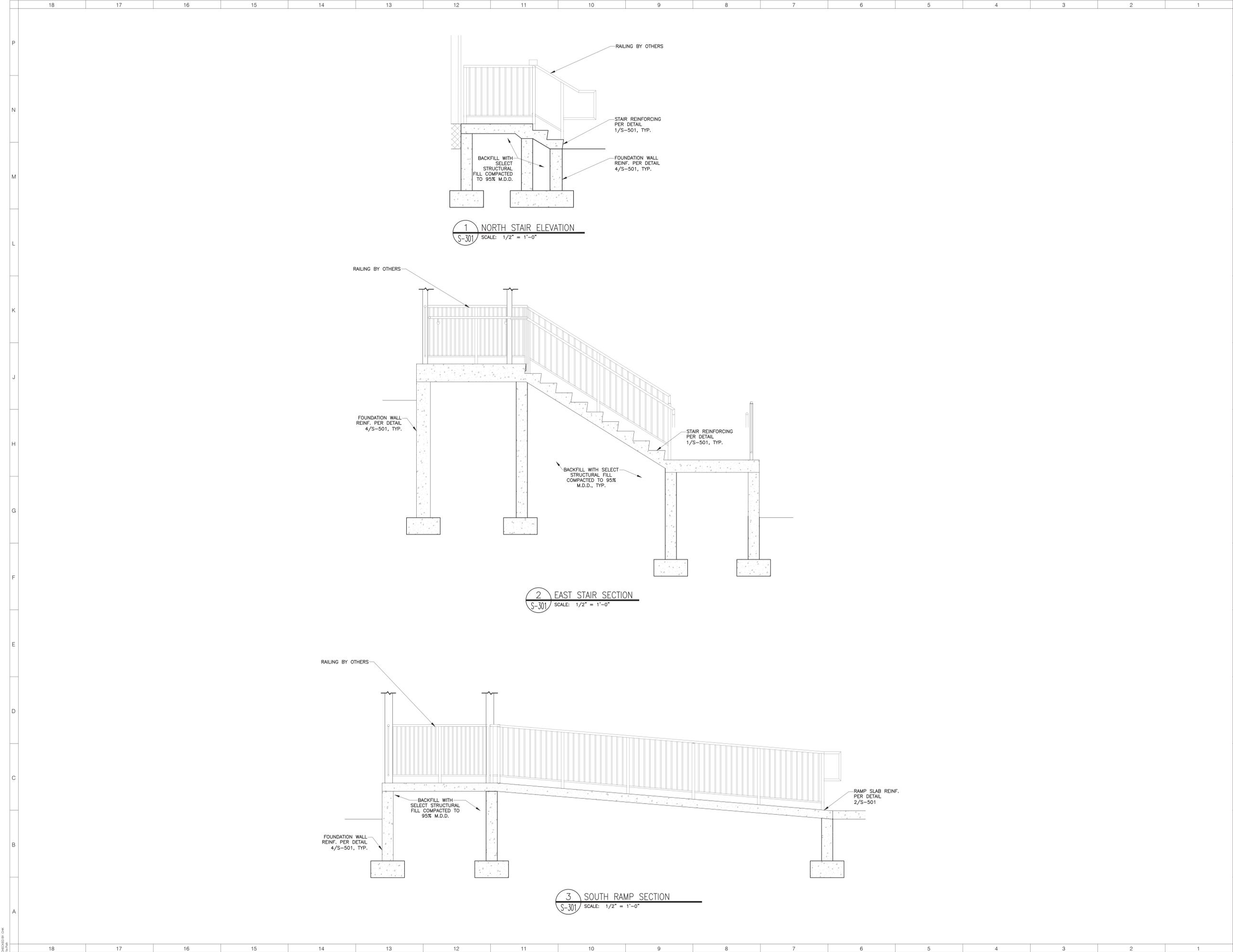
Miller Elementary School
 50 Blauvelt Rd Unit 1
 Nanuet, NY 10954

A MacArthur Barr Middle School
 143 Church St
 Nanuet, NY 10954

KEY PLAN

REVISIONS		
No.	Description	Date

ISSUED: BID SET
DATE: 06/21/2024
SCALE: AS NOTED
SHEET NAME: ENTRY WAY FOUNDATION PLAN
SHEET NUMBER: OEC-S101



ARCHITECT
ksqdesign
 NEW YORK OKLAHOMA
 KSQ Design
 215 W 40th Street 13th Floor
 New York, NY 10018
 646.435.0660 office
 www.ksq.design

Owner
 Nanuet Union Free School District
 101 Church Street
 Nanuet, NY 10954
 845.627.9880
 www.nanuetd.org

Structural Engineer
 Clapper Structural Engineering
 160 Partition Street
 Saugerties, NY 12477
 845.543.9011
 www.clapperstructural.com

MEP Engineer
 Sage Engineering Associates, LLP
 9 Columbia Circle
 Albany NY 12203
 518.453.6091
 www.sageelp.com

Environmental Engineer
 Quest Environmental Solutions
 1376 Route 9
 Wappingers Falls, NY 12590
 845.298.6251
 www.qualityenv.com

Construction Manager
 Jacobs
 One Penn Plaza
 24th Floor, Suite 2400
 New York, NY 10119
 646.808.6550
 www.jacobs.com

NUFSD BOND PROJECT PHASE 5 - OEC BUILDING

SED#50-01-08-03-0-002-020 (HIGHVIEW ES)
 SED#50-01-08-03-7-001-022 (Maintenance)
 SED#50-01-08-03-7-012-004 (OEC)
 SED#50-01-08-03-0-001-026 (MILLER ES)
 SED#50-01-08-03-0-004-022 (BARR MS)

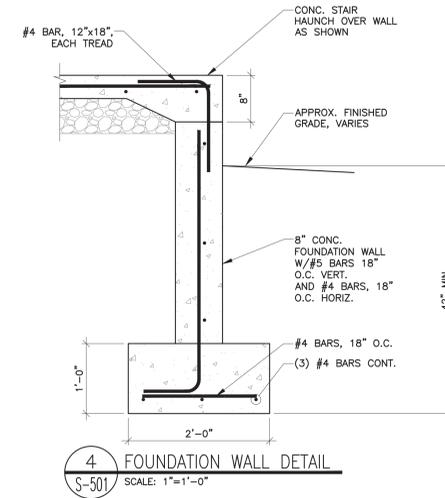
Highview Elementary School
 24 Highview Ave
 Nanuet, NY 10954
OEC Building
 135 Convent Rd
 Nanuet, NY 10954
Maintenance Building
 103 Church St.
 Nanuet, NY 10954
Miller Elementary School
 50 Blauvelt Rd Unit 1
 Nanuet, NY 10954
A MacArthur Barr Middle School
 143 Church St
 Nanuet, NY 10954

KEY PLAN

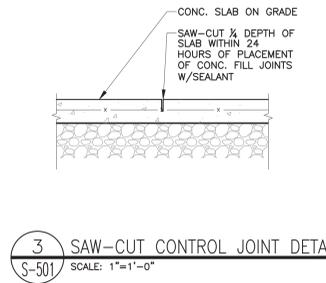
REVISIONS		
No.	Description	Date

ISSUED: BID SET
DATE: 06/21/2024
SCALE: AS NOTED
SHEET NAME: STRUCTURAL SECTIONS
SHEET NUMBER: OEC-S301

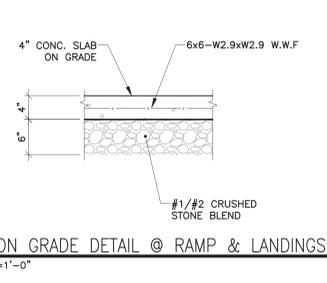
DRAWN BY: JPK
 CHECKED BY: JPK
 DATE: 06/21/2024



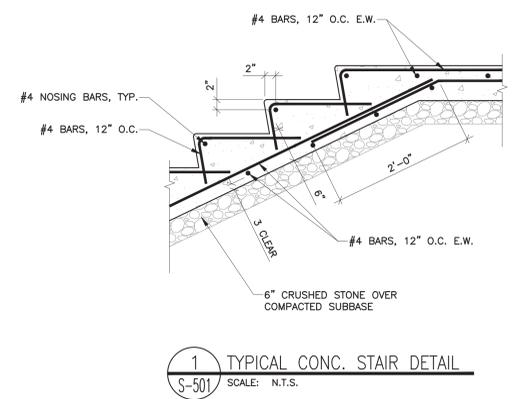
4 FOUNDATION WALL DETAIL
S-501 SCALE: 1"=1'-0"



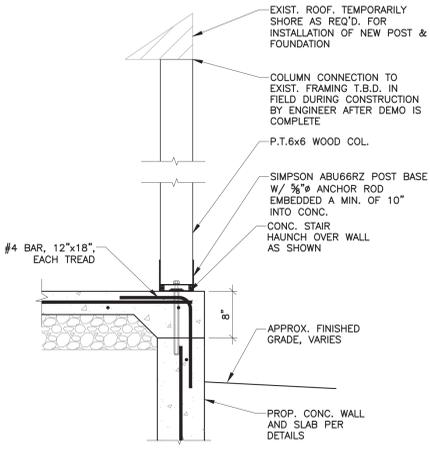
3 SAW-CUT CONTROL JOINT DETAIL
S-501 SCALE: 1"=1'-0"



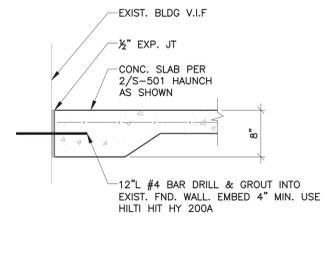
2 SLAB ON GRADE DETAIL @ RAMP & LANDINGS
S-501 SCALE: 1"=1'-0"



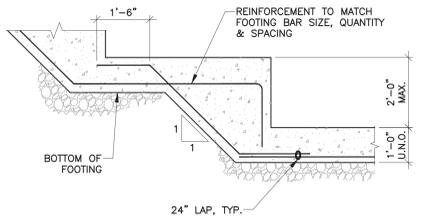
1 TYPICAL CONC. STAIR DETAIL
S-501 SCALE: N.T.S.



7 POST CONNECTION DETAIL
S-501 SCALE: N.T.S.



6 TYPICAL CONC. STAIR DETAIL
S-501 SCALE: N.T.S.



5 FOOTING STEP DETAIL
S-501 SCALE: N.T.S.

ARCHITECT
ksqdesign
NEW YORK OKLAHOMA
KSQ Design
215 W 40th Street 13th Floor
New York, NY 10018
646.435.0660 office
www.ksqdesign.com

Owner
Nanuet Union Free School District
101 Church Street
Nanuet, NY 10954
845.627.9880
www.nanuetd.org

Structural Engineer
Clapper Structural Engineering
160 Partition Street
Saugerties, NY 12477
845.943.9801
www.clapperstructural.com

MEP Engineer
Sage Engineering Associates, LLP
9 Columbus Circle
Albany NY 12203
518.453.6091
www.sageelp.com

Environmental Engineer
Quest Environmental Solutions
1376 Route 9
Wappingers Falls, NY 12590
845.298.6251
www.qualityenv.com

Construction Manager
Jacobs
One Penn Plaza
24th Floor, Suite 2400
New York, NY 10119
646.908.6560
www.jacobs.com



NUFSD BOND PROJECT PHASE 5 - OEC BUILDING

- SED#50-01-08-03-0-002-020 (HIGHWAY ES)
- SED#50-01-08-03-0-001-022 (Maintenance)
- SED#50-01-08-03-0-001-004 (OEC)
- SED#50-01-08-03-0-001-026 (MILLER ES)
- SED#50-01-08-03-0-004-022 (BARR MS)

- Highview Elementary School
24 Highview Ave
Nanuet, NY 10954
- OEC Building
135 Convent Rd
Nanuet, NY 10954
- Maintenance Building
103 Church St.
Nanuet, NY 10954
- Miller Elementary School
50 Blauvelt Rd Unit 1
Nanuet, NY 10954
- A MacArthur Barr Middle School
143 Church St
Nanuet, NY 10954

KEY PLAN

REVISIONS

No.	Description	Date

ISSUED: BID SET
DATE: 06/21/2024
SCALE: AS NOTED
SHEET NAME:
STRUCTURAL
DETAILS
SHEET NUMBER:

OEC-S501