

ARCHITECTURE

TMP ARCHITECTURE INC
1191 WEST SQUARE LAKE ROAD · BLOOMFIELD HILLS · MICHIGAN · 48302
PH · 248.338.4561 FX · 248.338.0223 EM · INFO@TMP-ARCHITECTURE.COM

NEW SMITH MIDDLE SCHOOL
Troy School District - Troy, Michigan 48098

2022 BOND PROGRAM - BID BACKAGE 03D

Project Number 22102
CONSTRUCTION DOCUMENTS

GROUND IMPROVEMENTS

CONSULTANTS:

CIVIL ENGINEER
PEA GROUP

1840 POND RUN
AUBURN HILLS, MICHIGAN 48326
PHONE: (248) 689-9090

STRUCTURAL ENGINEER

WILLIAM A. KIBBE & ASSOCIATES

1475 S. WASHINGTON AVE.
SAGINAW, MICHIGAN 48601
PHONE: (989) 752-5000 FAX: (512) 752-5002

MECHANICAL ENGINEER

PETER BASSO ASSOCIATES INC.

5145 LIVERNOIS ROAD, SUITE 100
TROY, MICHIGAN 48068-3276
PHONE: (248) 879-5666 FAX: (248) 879-0007

ELECTRICAL ENGINEER

PETER BASSO ASSOCIATES INC.

5145 LIVERNOIS ROAD, SUITE 100
TROY, MICHIGAN 48068-3276
PHONE: (248) 879-5666 FAX: (248) 879-0007

LIST OF DRAWINGS

GENERAL INFORMATION

TS.1-03E Cover Sheet - Bid Package 03E
TG.1 General Information

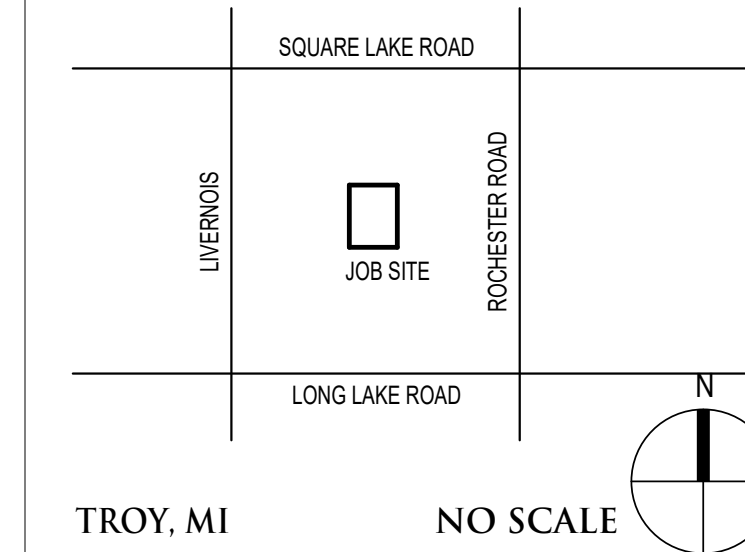
CIVIL

C-1.10 TOPOGRAPHIC SURVEY - 1 OF 3
C-1.11 TOPOGRAPHIC SURVEY - 2 OF 3
C-1.12 TOPOGRAPHIC SURVEY - 3 OF 3
C-3.10 OVERALL SITE PLAN

STRUCTURAL

S1.1 GROUND IMPROVEMENT FOUNDATION PLAN
S1.1A GROUND IMPROVEMENT FOUNDATION PLAN - ZONE 'A'
S1.1B GROUND IMPROVEMENT FOUNDATION PLAN - ZONE 'B'
S1.1C GROUND IMPROVEMENT FOUNDATION PLAN - ZONE 'C'
S1.1D GROUND IMPROVEMENT FOUNDATION PLAN - ZONE 'D'
S1.1E GROUND IMPROVEMENT FOUNDATION PLAN - ZONE 'E'
S1.1F GROUND IMPROVEMENT FOUNDATION PLAN - ZONE 'F'

PROJECT DATA:
LOCATION MAP:



TROY, MI

NO SCALE

ADDRESS: NEW SMITH MIDDLE SCHOOL
5850 Livernois Road
Troy, Michigan 48098

BUILDING:

BUILDING AREA(S) = NOT APPLICABLE

CODE:

GOVERNING CODES:

- 2016 SCHOOL FIRE SAFETY RULES (2012 Life Safety Code, plus amendments)
2015 MICHIGAN BUILDING CODE
2021 MICHIGAN PLUMBING CODE
2015 MICHIGAN UNIFORM ENERGY CODE (ANSI/ASHRAE/IESNA Standard 90.1-2013)
2023 MICHIGAN ELECTRICAL CODE (2023 NEC, plus Part 9 Rules)
2010 MICHIGAN ELEVATOR RULES (ASME A17.1-2010, ASME A18.1-2011)
MICHIGAN BARRIER FREE CODE (Michigan Building Code 2015 and ICC A117.1-2009)
2015 MICHIGAN BOILER CODE RULES (ASME Boiler and Pressure Vessel Code, 2019 edition) (National Board Inspection Code (NBIC), 2019 edition)

USE GROUP CLASSIFICATION: "E" EDUCATION

CONSTRUCTION TYPE: TYPE II (000) LSC
TYPE II-B (MBC)

ISSUE DATES

Table with 2 columns: Issue Date, Issued For

03-26-2024 CONSTRUCTION DOCUMENTS
DATE: ISSUED FOR:

LICENSEE'S STATEMENT:

This Document has been prepared under the supervision of the Architect, as the person in Responsible Charge with the firm of TMP ARCHITECTURE, INC. An original embossed or rubber stamp seal and original signature of the Architect is required and shall be affixed to any copy of this Document submitted to a governmental agency for approval or record. This is in conformance with the State of Michigan's PA 299, Article 20 and the General Rules of the Board of Architects.

The Architect's seal provided hereon does not take responsibility for certain portions of the Documentation or project requiring the services of a licensed Professional Engineer or other design professional. An original embossed or rubber stamp seal and original signature of the Professional Engineer is required and shall be affixed to any copy of this or other Document submitted to a governmental agency for approval or record. The engineering firms associated with this document are listed above as Consultants.

REGISTRATION SEALS

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PROJECT TITLE
NEW SMITH MIDDLE SCHOOL

PROJECT NO.
22102
DRAWING NO.
TS.1-03E







TMP ARCHITECTURE INC  
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BLOOMFIELD HILLS - MICHIGAN - 48302  
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REGISTRATION SEAL



CONSULTANT

**PEA GROUP**  
t 844.813.2949  
www.peagroup.com

PROJECT TITLE  
**New Smith Middle School  
Bid Package No. 03E**

Troy School District  
Troy, Michigan

DRAWING TITLE  
**TOPOGRAPHIC  
SURVEY - 2 OF 3**

ISSUE DATES

DATE	ISSUED FOR:
03/26/24	CONSTRUCTION DOCUMENTS
DRAWN	JW
CHECKED	TD
APPROVED	TD

PROJECT NO.  
**22102**  
DRAWING NO.  
**C-1.11**

**REFERENCE DRAWINGS:**

CABLE	AT&T MAPS A2 & B2, DATED 10/31/2022 WOW CABLE MAP, EMAIL DATED 10/21/2022
FIBER OPTIC	TROY SCHOOLS NETWORK MAP, FIBER LINK EMAIL DATED 10/21/2022
GAS	CONSUMERS MAP 02-61-10-2 DATED 08/1/2022
WATER MAIN	UTILITY MAP, CITY OF TROY EMAIL DATED 10/21/2022
SANITARY SEWER	UTILITY MAP, CITY OF TROY EMAIL DATED 10/21/2022
STORM SEWER	UTILITY MAP, CITY OF TROY EMAIL DATED 10/21/2022
ELECTRIC	HAVE NOT RECEIVED UTILITY MAP AS OF 10/31/2022
TOPOGRAPHIC SURVEY, PEA JOB NO. 2015-294	
TOPOGRAPHIC SURVEY, PEA JOB NO. 2018-450/	

**LEGEND:**

-OH-ELEC-VV-O-	EX. OH. ELEC. POLE & GUY WIRE
U-G-CATV-	EX. U.G. CABLE TV & PEDESTAL
U-G-COMM-99-O-	EX. U.G. COMMUNICATION LINE, PEDESTAL & MANHOLE
U-G-ELEC-METER	EX. U.G. ELEC. MANHOLE, METER & HANDHOLE
- - - - -	EX. GAS LINE
⊗	EX. GAS VALVE & GAS LINE MARKER
⊠	EX. TRANSFORMER & IRRIGATION VALVE
- - - - -	EX. WATER MAIN
⊗	EX. HYDRANT, GATE VALVE & POST INDICATOR VALVE
⊗	EX. WATER VALVE BOX & SHUTOFF
⊗	EX. SANITARY SEWER
⊗	EX. SANITARY CLEANOUT & MANHOLE
⊗	EX. COMBINED SEWER MANHOLE
- - - - -	EX. STORM SEWER
⊗	EX. CLEANOUT & MANHOLE
⊗	EX. SQUARE, ROUND, & BEEHIVE CATCH BASIN
⊗	EX. YARD DRAIN & ROOF DRAIN
⊗	EX. UNIDENTIFIED STRUCTURE
⊗	EX. MAILBOX, SIGN & LIGHTPOLE
- - - - -	EX. FENCE
- - - - -	EX. GUARD RAIL
⊗	EX. SPOT ELEVATION
⊗	EX. CONTOUR
⊗	EX. WETLAND
⊗	IRON FOUND / SET
⊗	NAIL FOUND / NAIL & CAP SET
⊗	BRASS PLUG SET
⊗	MONUMENT FOUND / SET
⊗	SECTION CORNER FOUND
R M C	RECORDED / MEASURED / CALCULATED

**FLOODPLAIN:**  
PER FLOOD INSURANCE RATE MAP NUMBER 26125C0532F, DATED SEPTEMBER 29, 2006

BY GRAPHICAL PLOTTING, THE SITE LIES WITHIN:  
SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD  
THE 1% ANNUAL CHANCE FLOOD (100 YEAR FLOOD), ALSO KNOWN AS THE BASE FLOOD, IS THE FLOOD THAT HAS A 1% CHANCE OF BEING EQUALED OR EXCEEDED IN ANY GIVEN YEAR. THE SPECIAL FLOOD HAZARD AREA IS THE AREA SUBJECT TO FLOODING BY THE 1% ANNUAL CHANCE FLOOD. AREAS OF SPECIAL FLOOD HAZARD INCLUDE ZONES A, AE, AH, AO, AR, A99, V AND VE. THE BASE FLOOD ELEVATION IS THE WATER-SURFACE ELEVATION OF THE 1% ANNUAL CHANCE FLOOD.

ZONE A - NO BASE FLOOD ELEVATIONS DETERMINED.

OTHER AREAS  
ZONE X  
AREA TO BE DETERMINED OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOODPLAIN.

**LEGAL DESCRIPTION:**

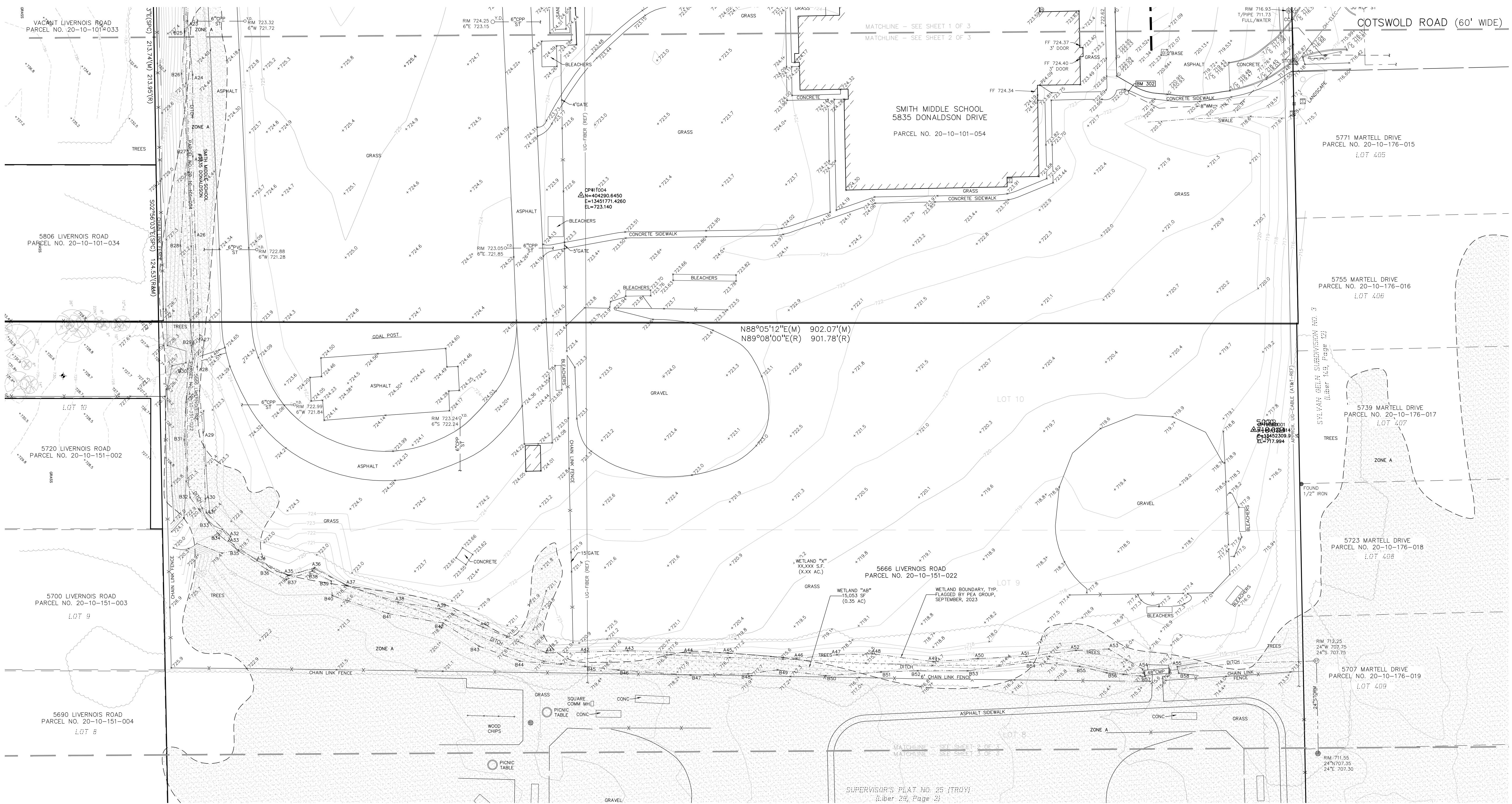
PARCEL ID 20-10-101-054  
Land in the City of Troy, Oakland County, Michigan, described as follows:  
T2N, R11E, SEC 10 PART OF NW 1/4 BEG AT PT DIST S 571.05 FT & S 89.57-00 E 697.50 FT & S 00-10-00 E 189.24 FT FROM NW SEC COR, TH S 89-40-00 E 624.96 FT, TH S 00-10-00 E 683.20 FT, TH N 89-08-00 W 901.78 FT, TH N 10-10-00 W 637.72 FT, TH S 89-02-00 E 275.00 FT, TH N 00-10-00 W 39.24 FT TO BEG. 13.79 A.

PARCEL ID 20-10-101-022  
Land in the City of Troy, Oakland County, Michigan, described as follows:  
T2N, R11E, SEC 10 SUPERVISOR'S PLAT NO 25 LOTS 5, 6 & 7, ALSO E 900 FT OF LOTS 8 & 9, ALSO LOT 10 EXC W 397.82 FT OF S 104.29 FT

**BENCHMARKS:**  
(GPS DERIVED - NAVD83)

BM #800  
ARROW ON A HYDRANT LOCATED AT THE SOUTHWEST CORNER OF THE FRONT PARKING LOT.  
ELEV. - 724.13

BM #801  
ARROW ON A HYDRANT LOCATED ON THE SOUTHWEST CORNER OF THE BACK PARKING LOT.  
ELEV. - 726.34



Drawing File: S:\PROJECTS\2023\21-0301\_TROY\_SCHOOL\2023\_BID\03E\2023\_BID\03E.dwg, 2/1/24 10:48:58 AM, User: jls

NORTH

0 20 40 80  
SCALE: 1" = 40'

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

CAUTION!  
THE LOCATION AND ELEVATIONS OF EXISTING UNDERGROUND UTILITIES SHOWN ON THIS DRAWING ARE ONLY APPROXIMATE. NO GUARANTEE IS EITHER EXPRESSED OR IMPLIED AS TO THE CORRECTNESS OF ANY INFORMATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT UTILITY LOCATIONS AND ELEVATIONS PRIOR TO THE START OF CONSTRUCTION.







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CONSULTANT

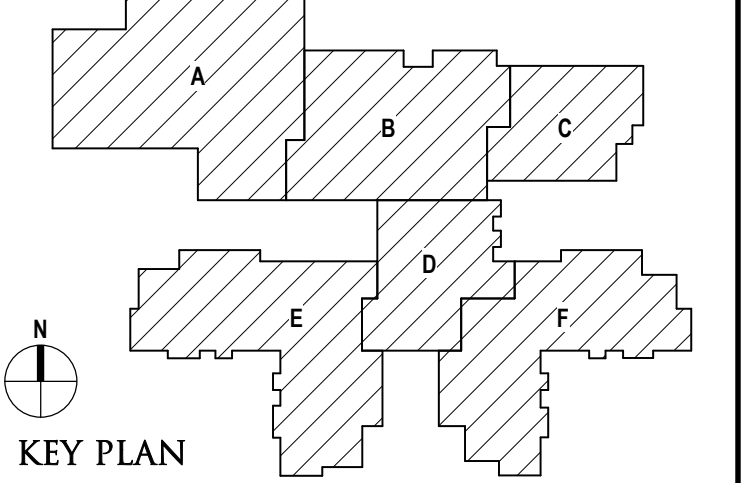


WILLIAM A. KIBBE & ASSOCIATES, INC.  
ENGINEERS | ARCHITECTS | SURVEYORS

PROJECT TITLE  
**NEW SMITH  
MIDDLE SCHOOL**  
Bid Package No. 03E

Troy School District  
Troy, Michigan

DRAWING TITLE  
**Ground Improvement  
Foundation Plan**



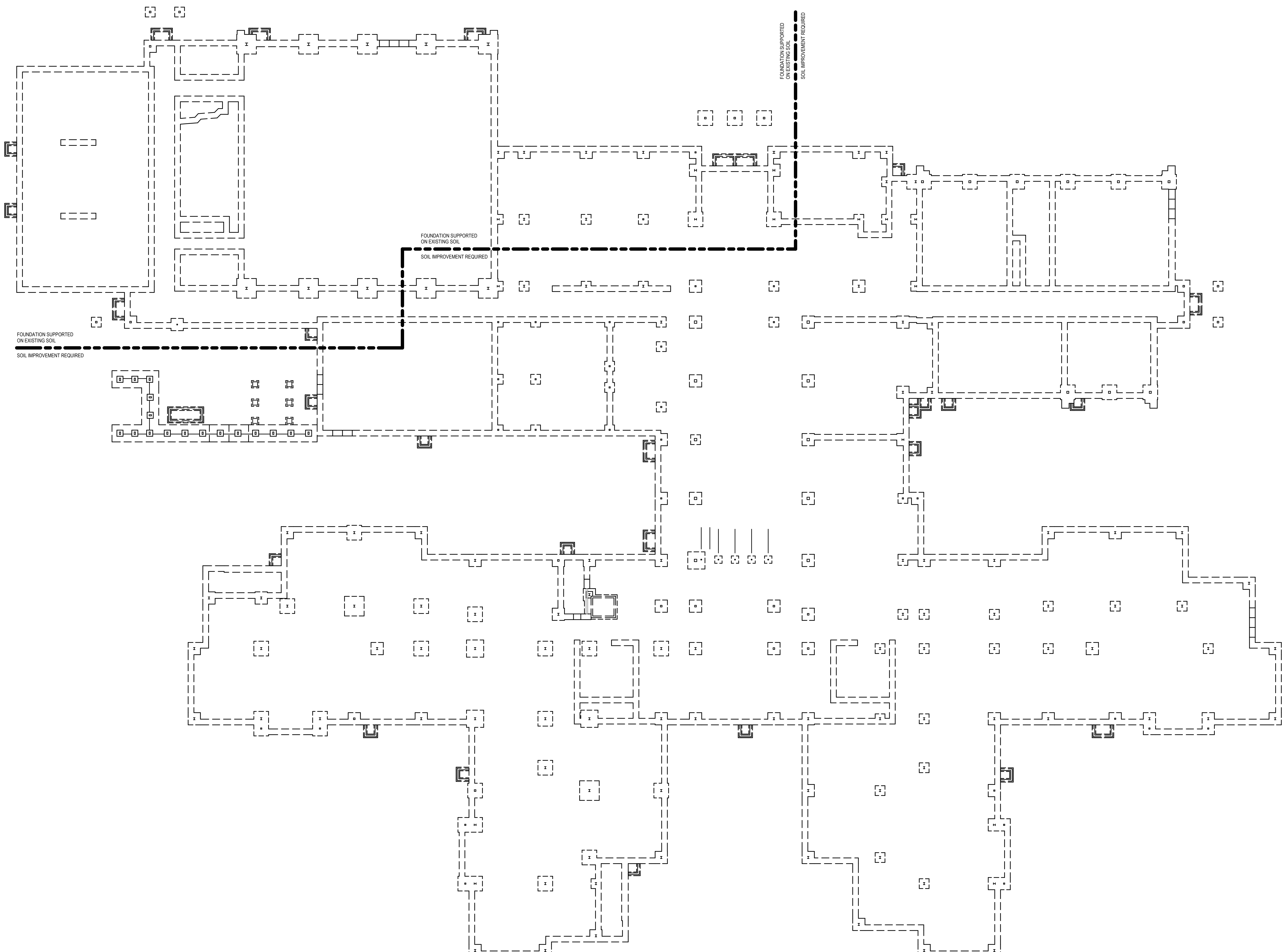
ISSUE DATES	

03-26-2024 CONSTRUCTION DOCUMENTS

DATE: ISSUED FOR:

DRAWN: D. BART  
CHECKED: B. KANNERS  
APPROVED: E. MANNOR

PROJECT NO.  
**22102**  
DRAWING NO.  
**S1.1**



GROUND IMPROVEMENT COMPOSITE FOUNDATION PLAN  
SCALE: 1/16" = 1'-0"

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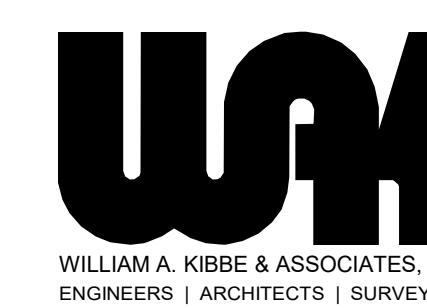


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PRELIMINARY NOT  
 FOR CONSTRUCTION

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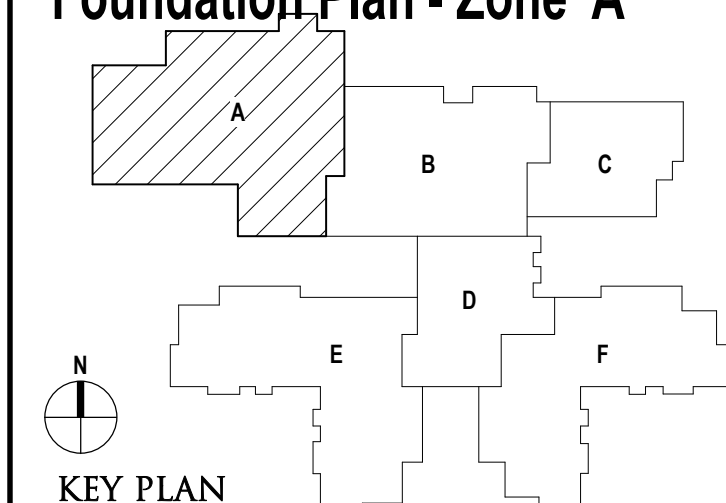
PROJECT TITLE

**NEW SMITH  
 MIDDLE SCHOOL**  
 Bid Package No. 03E

Troy School District  
 Troy, Michigan

DRAWING TITLE

**Ground Improvement  
 Foundation Plan - Zone 'A'**



ISSUE DATES


03-26-2024 CONSTRUCTION DOCUMENTS

DATE ISSUED FOR:

DRAWN D. BART

CHECKED B. KANNERS

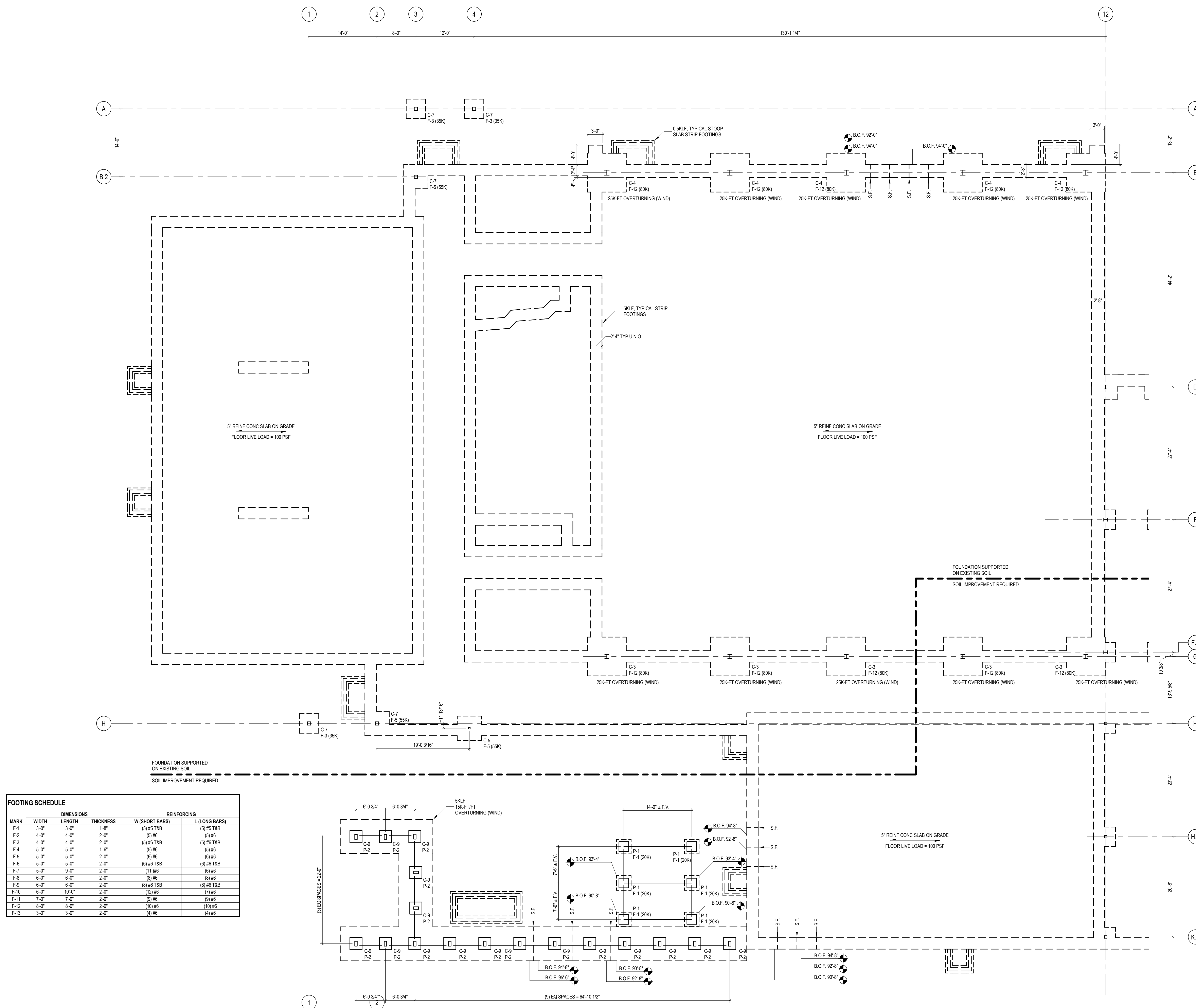
APPROVED E. MANNOR

PROJECT NO.

**22102**

DRAWING NO.

**S1.1A**



MARK	DIMENSIONS		THICKNESS	REINFORCING	
	WIDTH	LENGTH		W (SHORT BARS)	L (LONG BARS)
F-1	3'-0"	3'-0"	1'-8"	(5) #5 T&B	(5) #5 T&B
F-2	4'-0"	4'-0"	2'-0"	(5) #6	(5) #6
F-3	4'-0"	4'-0"	2'-0"	(5) #6 T&B	(5) #6 T&B
F-4	5'-0"	5'-0"	1'-6"	(5) #6	(5) #6
F-5	5'-0"	5'-0"	2'-0"	(6) #6	(6) #6
F-6	5'-0"	5'-0"	2'-0"	(6) #6 T&B	(6) #6 T&B
F-7	5'-0"	9'-0"	2'-0"	(11) #6	(6) #6
F-8	6'-0"	6'-0"	2'-0"	(8) #6	(8) #6
F-9	6'-0"	6'-0"	2'-0"	(8) #6 T&B	(8) #6 T&B
F-10	6'-0"	10'-0"	2'-0"	(12) #6	(7) #6
F-11	7'-0"	7'-0"	2'-0"	(9) #6	(9) #6
F-12	8'-0"	8'-0"	2'-0"	(10) #6	(10) #6
F-13	3'-0"	3'-0"	2'-0"	(4) #6	(4) #6

- NOTES:
- 100'-0" = 725.50. SEE CIVIL.
  - B.O.F. = 96'-0" U.N.O.

- GROUND IMPROVEMENT GENERAL NOTES:
- REFERENCE GEOTECHNICAL REPORT BY G-2 CONSULTING DATED MARCH 12, 2024. PER RECOMMENDATIONS, SOIL IMPROVEMENT IS REQUIRED AT LOCATIONS SHOWN FOR SPREAD/STRIP FOOTINGS AND SLAB ON GRADE.
  - FOUNDATIONS AND SLAB MAY BE SUPPORTED ON EXISTING SOILS AT CERTAIN LOCATIONS. A REPRESENTATIVE OF G-2 MUST BE PRESENT PRIOR TO PLACING ENGINEERED FILL TO DETERMINE THIS DELINEATION LOCATION SHOWN IS APPROXIMATE, AND FOR BIDDING PURPOSES ONLY.
  - LOADS SHOWN REPRESENT WORST CASE COMBINED GRAVITY LOAD (DEAD, SHOW LIVE).
  - LOADS ARE UNFACTORED FOR ALLOWABLE SOIL PRESSURE DESIGN.
  - FOOTINGS HAVE BEEN SIZED FOR A MINIMUM 3000 PSF ALLOWABLE BEARING CAPACITY.
  - REFERENCE FOUNDATION SCHEDULE SHEET S1.1A.

GROUND IMPROVEMENT FOUNDATION PLAN - ZONE 'A'  
 SCALE: 1/8" = 1'-0"



REGISTRATION SEAL

**PRELIMINARY NOT FOR CONSTRUCTION**

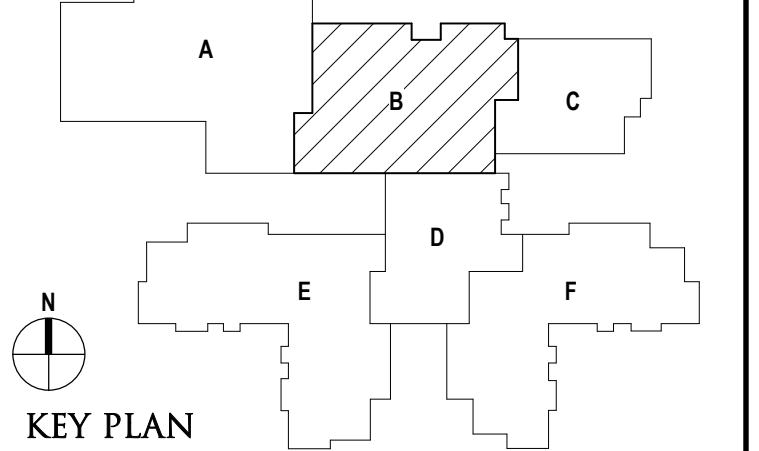
CONSULTANT



PROJECT TITLE  
**NEW SMITH MIDDLE SCHOOL**  
Bid Package No. 03E

Troy School District  
Troy, Michigan

DRAWING TITLE  
**Ground Improvement Foundation Plan - Zone 'B'**



ISSUE DATES

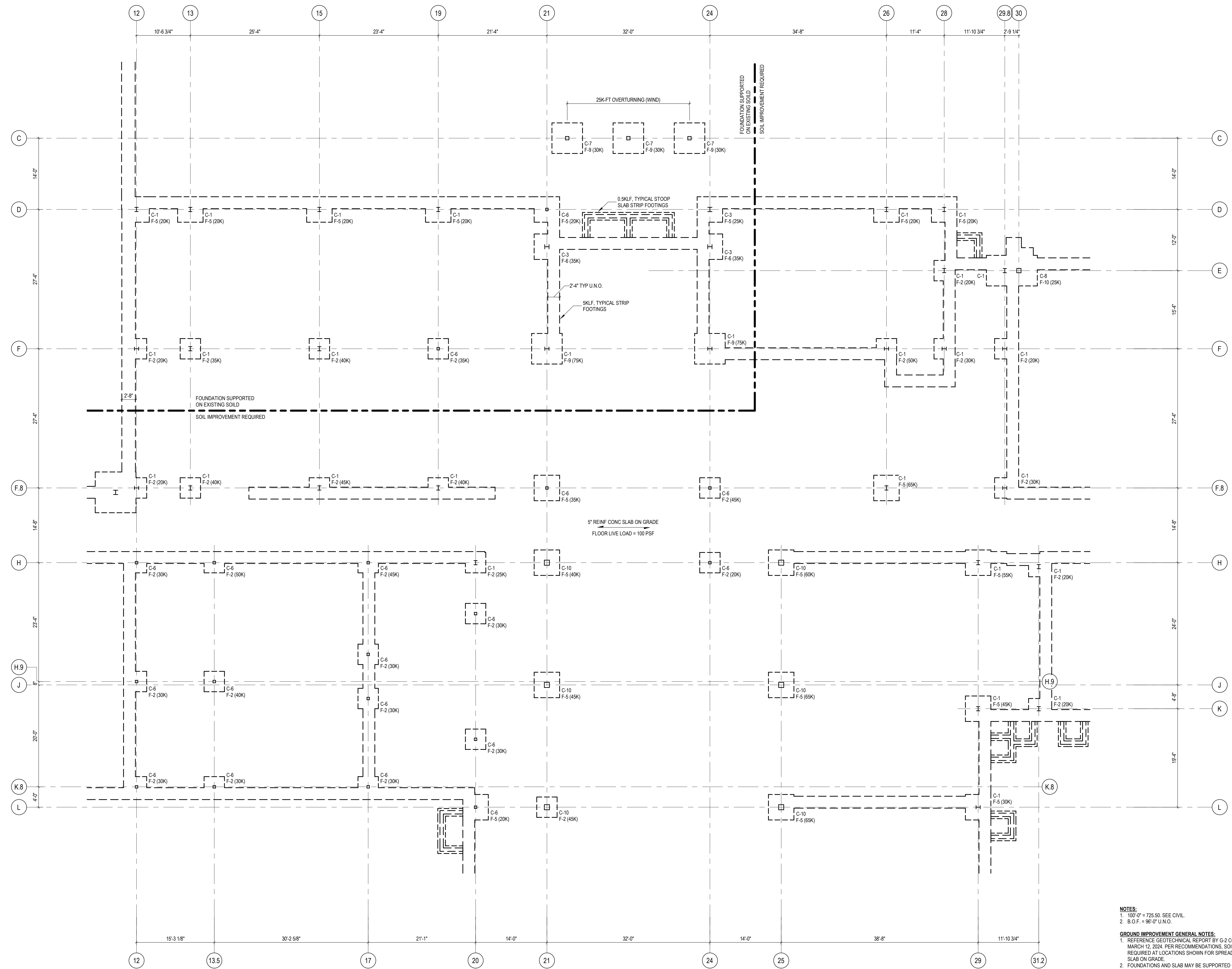
DATE	ISSUED FOR

03-26-2024 CONSTRUCTION DOCUMENTS

DATE	ISSUED FOR

PROJECT NO.  
**22102**

DRAWING NO.  
**S1.1B**



**GROUND IMPROVEMENT FOUNDATION PLAN - ZONE 'B'**  
SCALE: 1/8" = 1'-0"

**NOTES:**  
1. 100'-0" = 725.50. SEE CIVIL.  
2. B.O.F. = 96'-0" U.N.O.

**GROUND IMPROVEMENT GENERAL NOTES:**  
1. REFERENCE GEOTECHNICAL REPORT BY G-2 CONSULTING DATED MARCH 12, 2024. PER RECOMMENDATIONS, SOIL IMPROVEMENT IS REQUIRED AT LOCATIONS SHOWN FOR SPREAD STRIP FOOTINGS AND SLAB ON GRADE.  
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3. LOADS SHOWN REPRESENT WORST CASE COMBINED GRAVITY LOAD (DEAD, SNOW, LIVE).  
4. LOADS ARE UNFACTORED FOR ALLOWABLE SOIL PRESSURE DESIGN.  
5. FOOTINGS HAVE BEEN SIZED FOR A MINIMUM 3000 PSF ALLOWABLE BEARING CAPACITY.  
6. REFERENCE FOUNDATION SCHEDULE SHEET S1.1A

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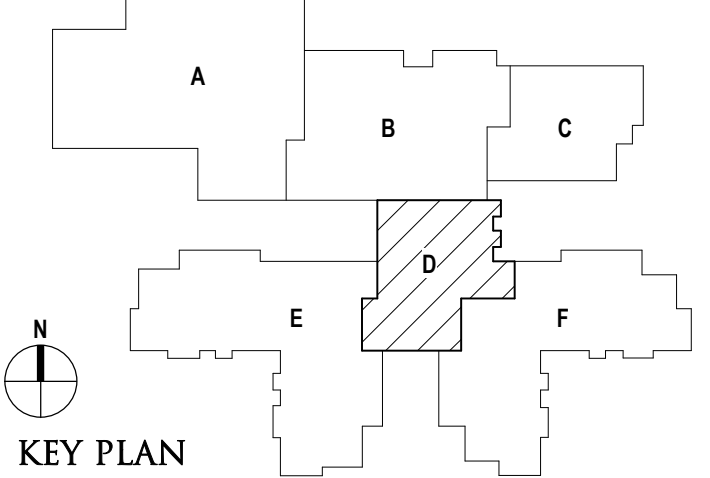
CONSULTANT



PROJECT TITLE  
**NEW SMITH MIDDLE SCHOOL**  
Bid Package No. 03E

Troy School District  
Troy, Michigan

DRAWING TITLE  
**Ground Improvement Foundation Plan - Zone 'D'**

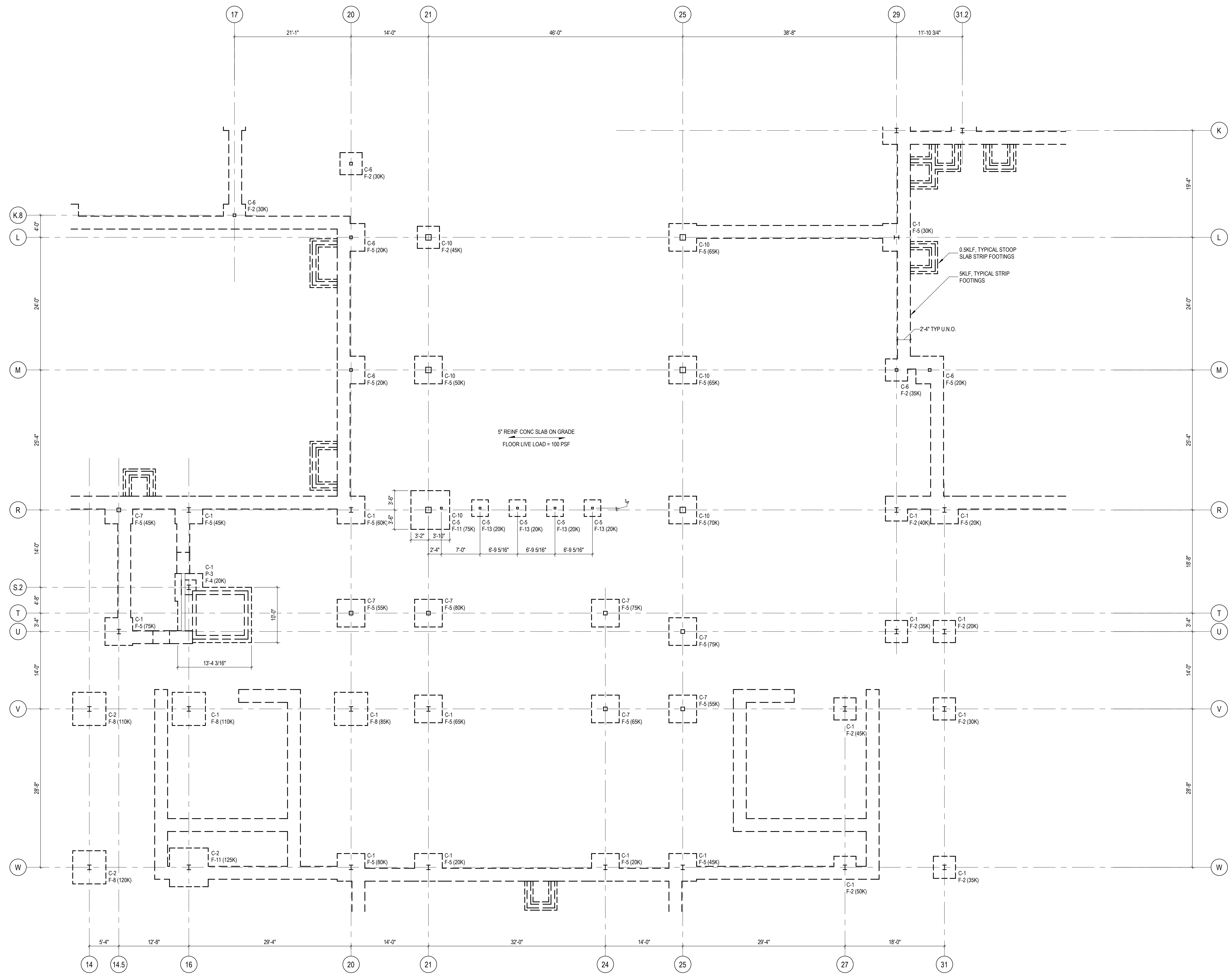


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DRAWN: D. BART	
CHECKED: B. KANNERS	
APPROVED: E. MANNOR	

PROJECT NO.  
**22102**  
DRAWING NO.  
**S1.1D**

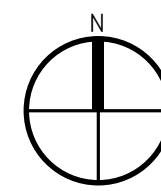
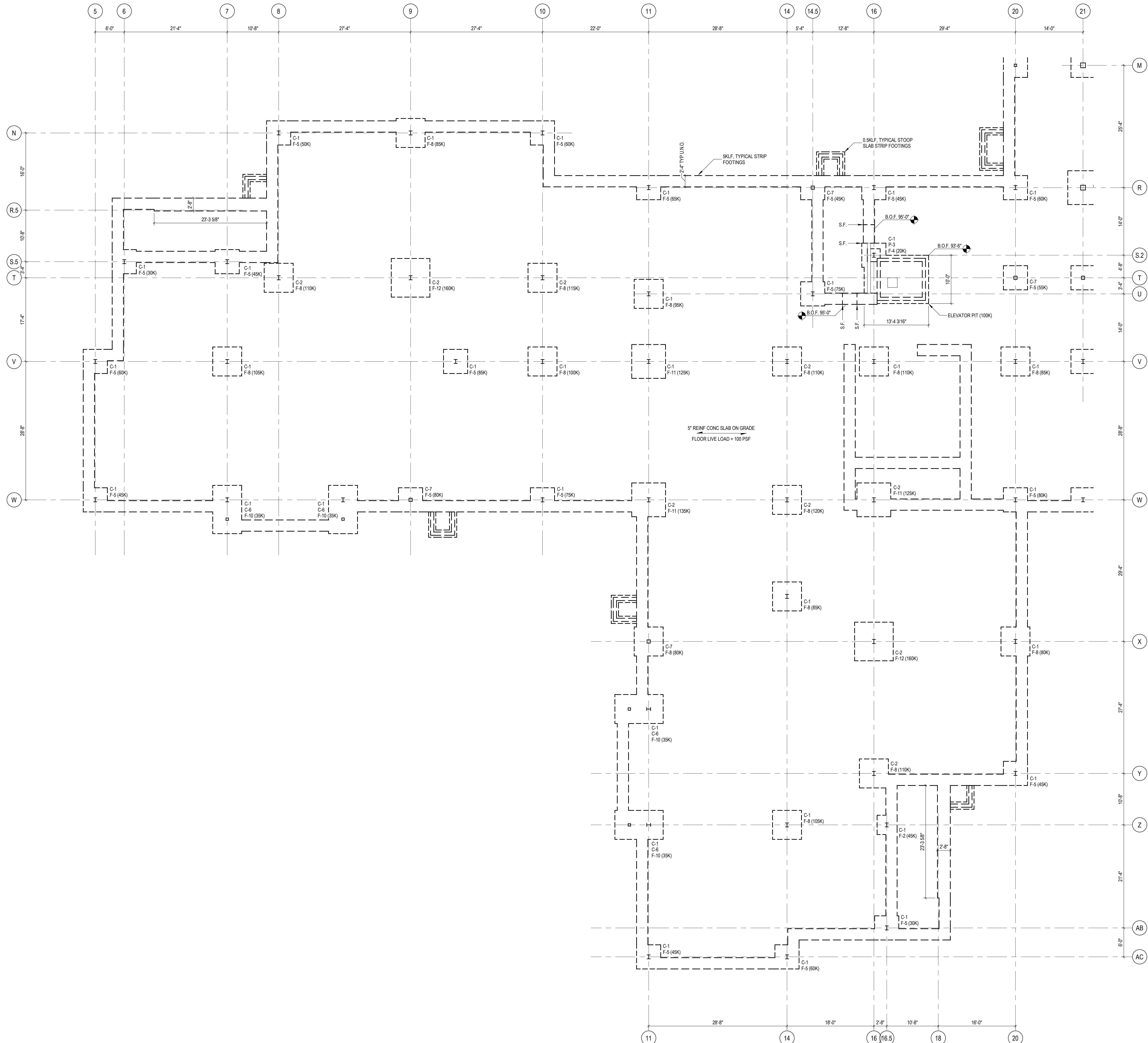


**GROUND IMPROVEMENT FOUNDATION PLAN - ZONE 'D'**  
SCALE: 1/8" = 1'-0"

NOTES:  
1. 100'-0" = 725.50. SEE CIVIL.  
2. B.O.F. = 96'-0" U.N.O.

GROUND IMPROVEMENT GENERAL NOTES:  
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5. FOOTINGS HAVE BEEN SIZED FOR A MINIMUM 3000 PSF ALLOWABLE BEARING CAPACITY.  
6. REFERENCE FOUNDATION SCHEDULE SHEET S1.1A

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GROUND IMPROVEMENT FOUNDATION PLAN – ZONE 'E'  
SCALE: 1/8" = 1'-0"

- NOTES:**  
 1. 100'-0" = 725.50. SEE CIVIL.  
 2. B.O.F. = 96'-0" U.N.O.
- GROUND IMPROVEMENT GENERAL NOTES:**  
 1. REFERENCE GEOTECHNICAL REPORT BY G-2 CONSULTING DATED MARCH 12, 2024. PER RECOMMENDATIONS, SOIL IMPROVEMENT IS REQUIRED AT LOCATIONS SHOWN FOR SPREAD STRIP FOOTINGS AND SLAB ON GRADE.  
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REGISTRATION SEAL

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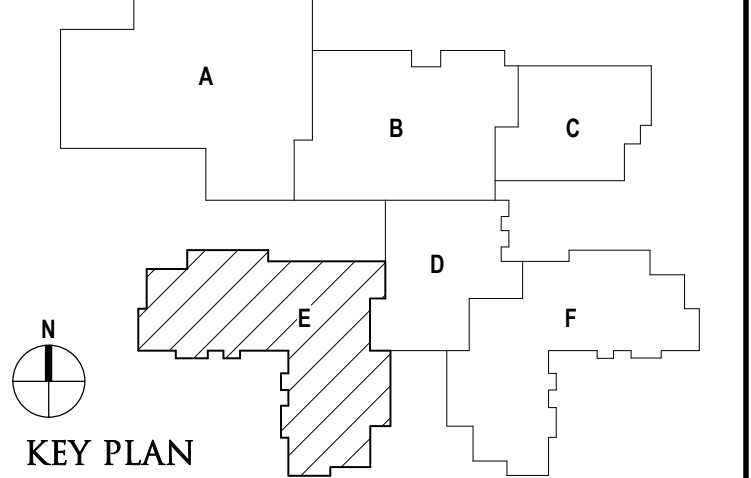
CONSULTANT



PROJECT TITLE  
**NEW SMITH MIDDLE SCHOOL**  
 Bid Package No. 03E

Troy School District  
 Troy, Michigan

DRAWING TITLE  
**Ground Improvement Foundation Plan - Zone 'E'**



ISSUE DATES


03-26-2024	CONSTRUCTION DOCUMENTS
DATE:	ISSUED FOR:
DRAWN:	D. BART
CHECKED:	B. KANNERS
APPROVED:	E. MANNOR

PROJECT NO.  
**22102**

DRAWING NO.  
**S1.1E**



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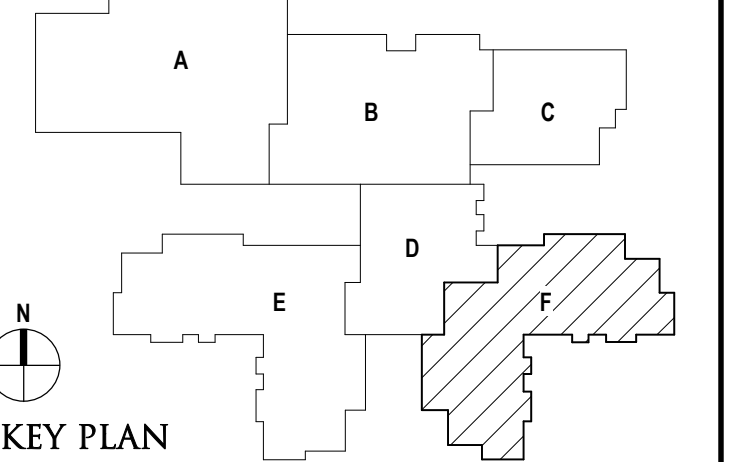


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ENGINEERS | ARCHITECTS | SURVEYORS

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Bid Package No. 03E

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Troy, Michigan

DRAWING TITLE  
**Ground Improvement  
Foundation Plan - Zone 'F'**



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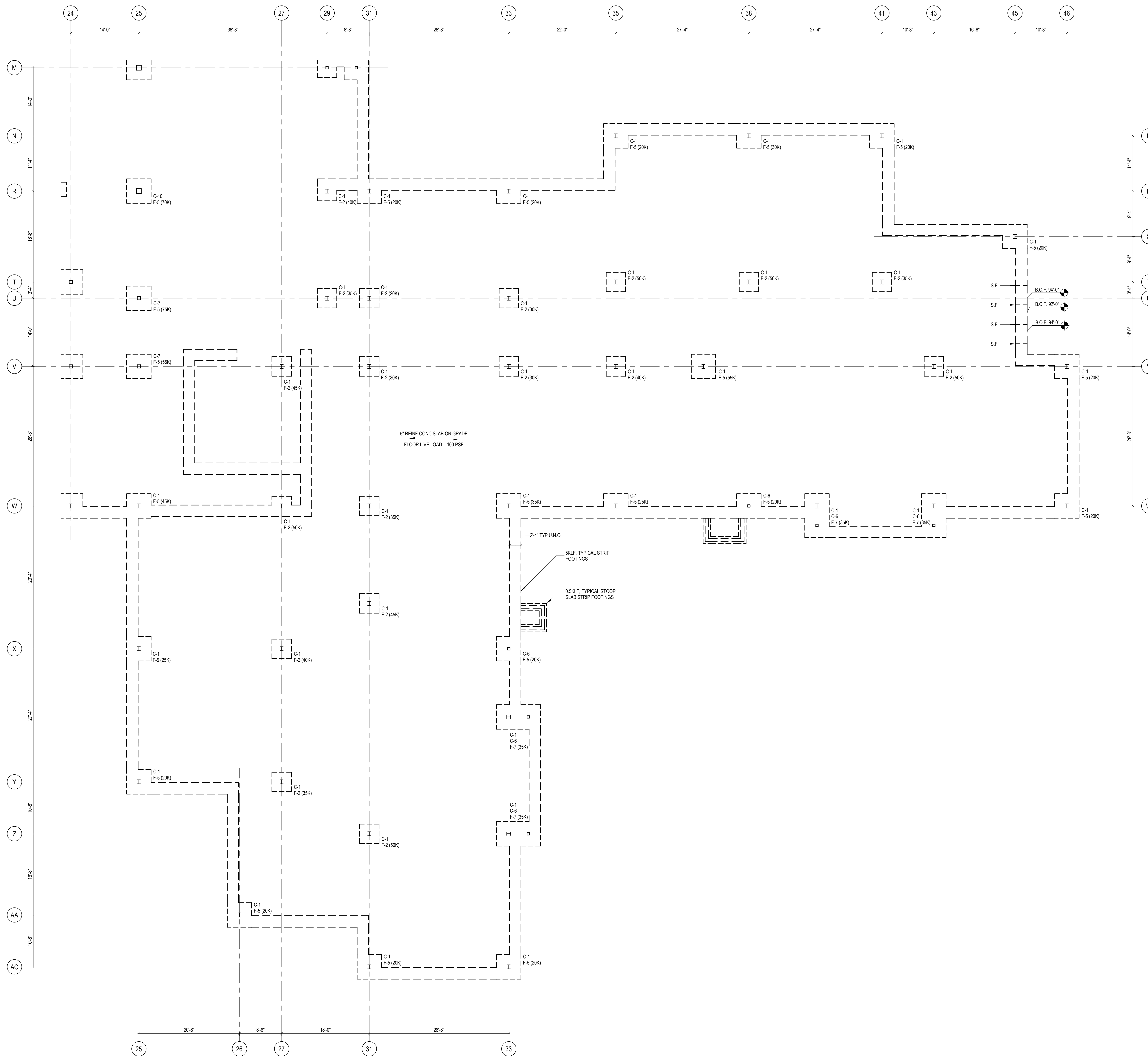
DATE	ISSUED FOR

03-26-2024 CONSTRUCTION DOCUMENTS

DATE	ISSUED FOR

DRAWN	D. BART
CHECKED	B. KANNERS
APPROVED	E. MANNOR

PROJECT NO.  
**22102**  
DRAWING NO.  
**S1.1F**



NOTES:  
1. 100'-0" = 725.50. SEE CIVIL.  
2. B.O.F. = 96'-0" U.N.O.  
  
GROUND IMPROVEMENT GENERAL NOTES:  
1. REFERENCE GEOTECHNICAL REPORT BY G-2 CONSULTING DATED MARCH 12, 2024. PER RECOMMENDATIONS, SOIL IMPROVEMENT IS REQUIRED AT LOCATIONS SHOWN FOR SPREAD STRIP FOOTINGS AND SLAB ON GRADE.  
2. FOUNDATIONS AND SLAB MAY BE SUPPORTED ON EXISTING SOILS AT CERTAIN LOCATIONS. A REPRESENTATIVE OF G-2 MUST BE PRESENT PRIOR TO PLACING ENGINEERED FILL TO DETERMINE THIS DELINEATION LOCATION SHOWN IS APPROXIMATE, AND FOR BIDDING PURPOSES ONLY.  
3. LOADS SHOWN REPRESENT WORST CASE COMBINED GRAVITY LOAD (DEAD, SNOW, LIVE).  
4. LOADS ARE UNFACTORED FOR ALLOWABLE SOIL PRESSURE DESIGN.  
5. FOOTINGS HAVE BEEN SIZED FOR A MINIMUM 3000 PSF ALLOWABLE BEARING CAPACITY.  
6. REFERENCE FOUNDATION SCHEDULE SHEET S1.1A

GROUND IMPROVEMENT FOUNDATION PLAN - ZONE 'F'  
SCALE: 1/8" = 1'-0"

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