



ARCHITECTURE

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NEW SMITH MIDDLE SCHOOL
Troy School District - Troy, Michigan 48085

2022 BOND PROGRAM - BID BACKAGE 03A
Project Number 22102
CONSTRUCTION DOCUMENTS

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

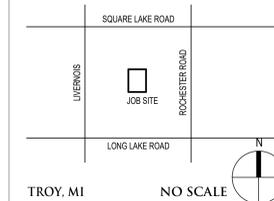
ELECTRICAL ENGINEER
PETER BASSO ASSOCIATES INC.
5145 LIVERNOIS ROAD, SUITE 100
TROY, MICHIGAN 48068-3276
PHONE: (248) 879-5666 FAX: (248) 879-0007

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PROJECT DATA:

LOCATION MAP:



TROY, MI

NO SCALE

BUILDING:

BUILDING AREA(S) = 103,859 SF (FIRST LEVEL)
21,903 SF (SECOND LEVEL)
125,762 SF (TOTAL)

CODE:

- GOVERNING CODES:
• 2016 SCHOOL FIRE SAFETY RULES (2012 Life Safety Code, plus amendments)
• 2015 MICHIGAN BUILDING CODE
• 2018 MICHIGAN PLUMBING CODE
• 2015 MICHIGAN MECHANICAL CODE
• 2015 MICHIGAN UNIFORM ENERGY CODE (ANSI/ASHRAE/IESNA Standard 90.1-2013)
• 2017 MICHIGAN ELECTRICAL CODE (2017 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)

ADDRESS: NEW SMITH MIDDLE SCHOOL
5835 Donaldson
Troy, Michigan 48085

USE GROUP CLASSIFICATION: "E" EDUCATION

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

ISSUE DATES
01-23-2024 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.

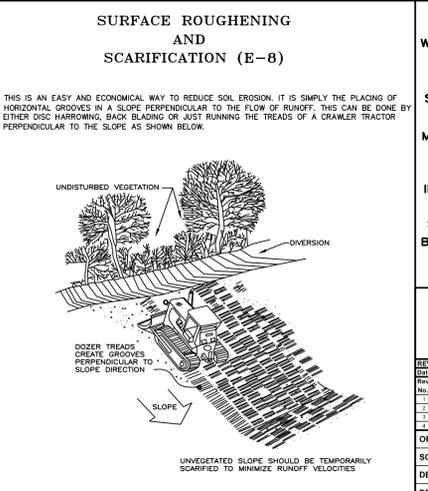
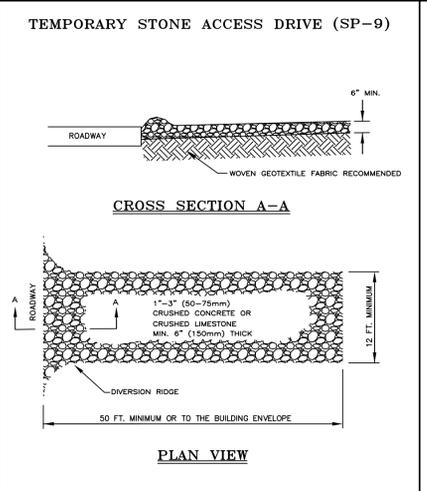
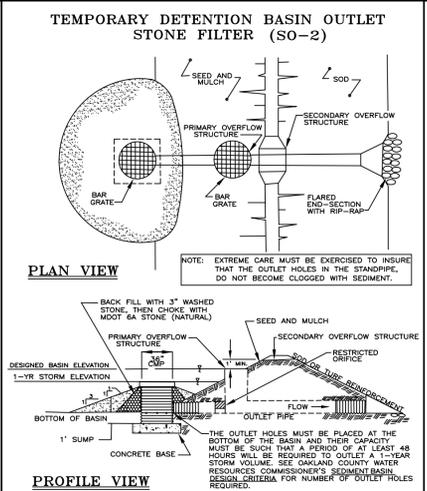
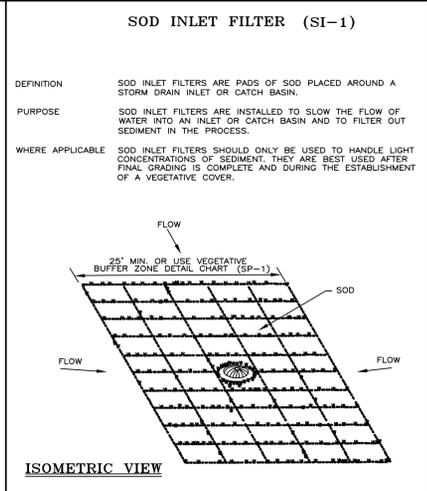
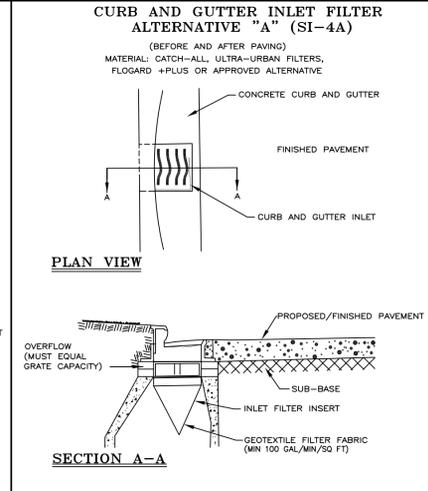
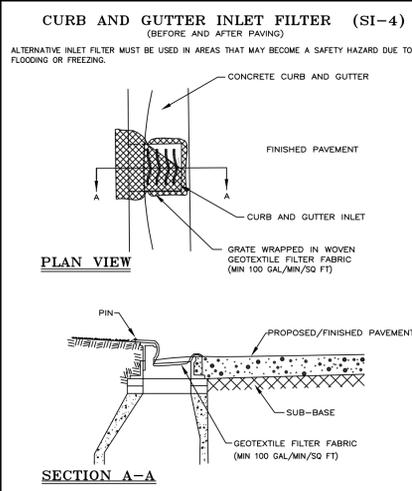
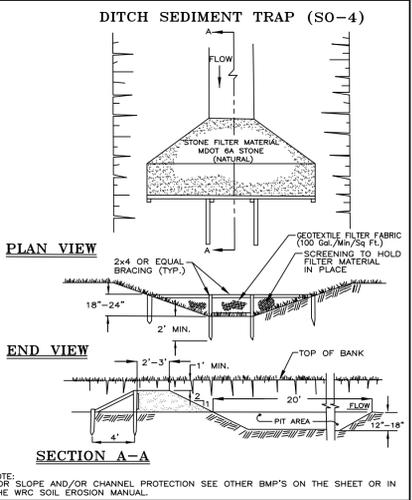
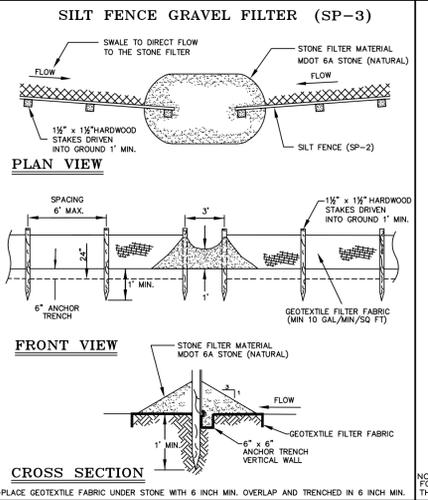
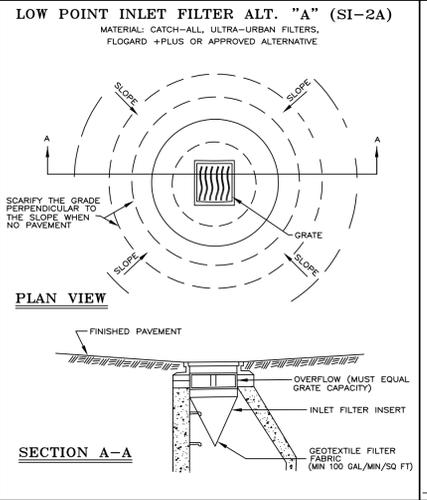
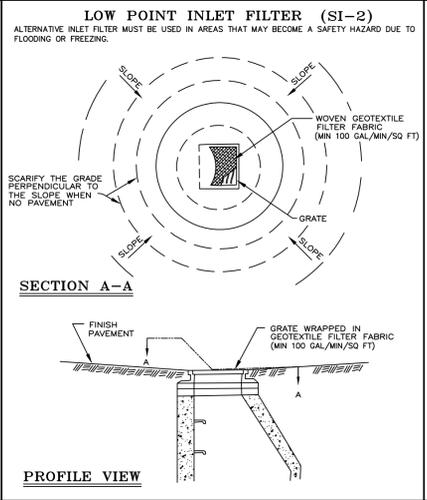
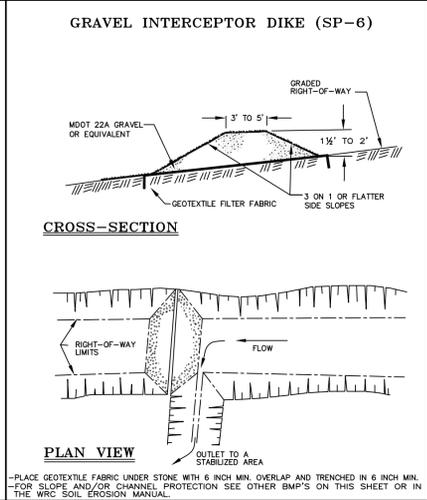
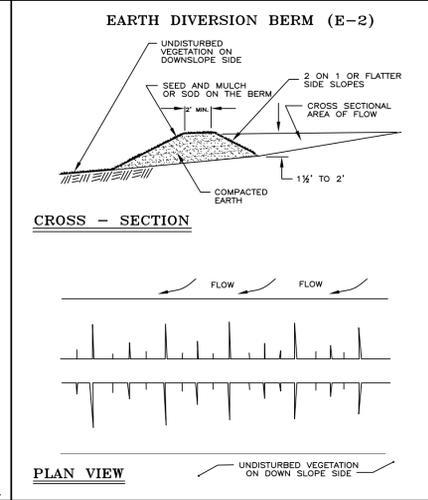
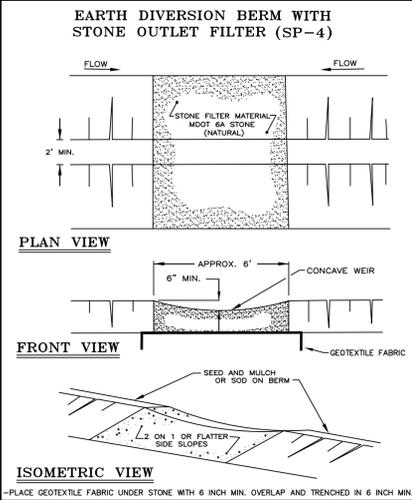
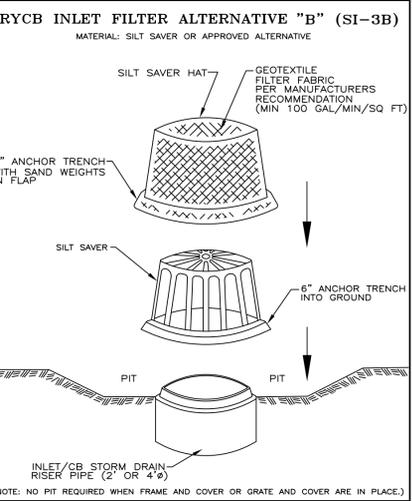
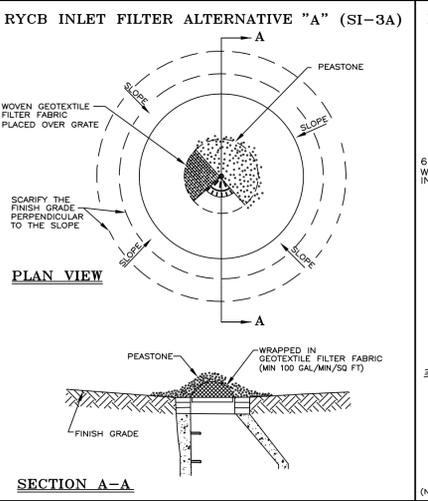
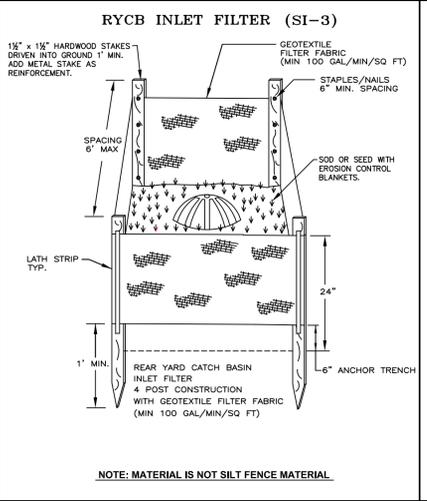
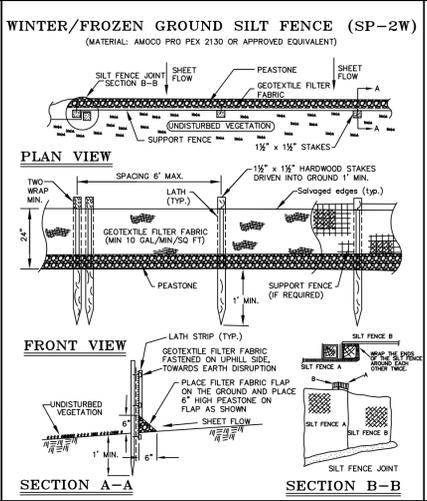
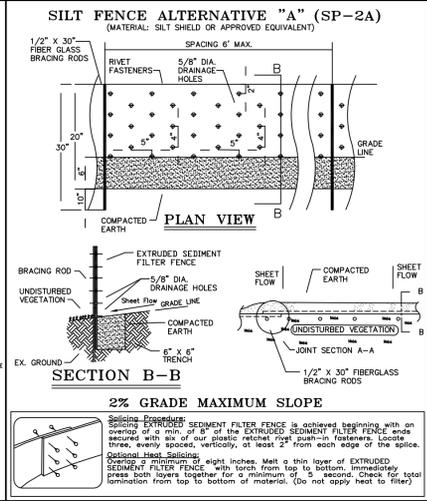
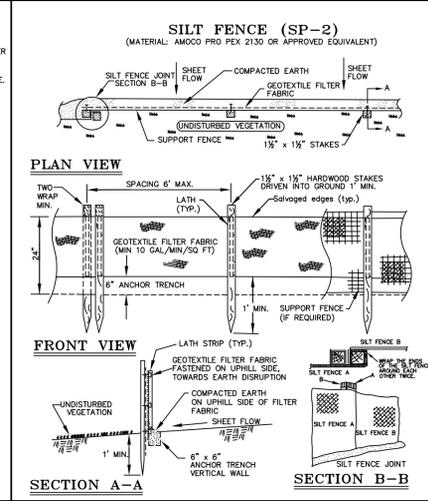
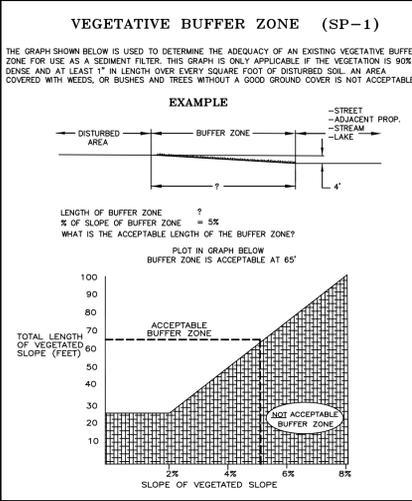
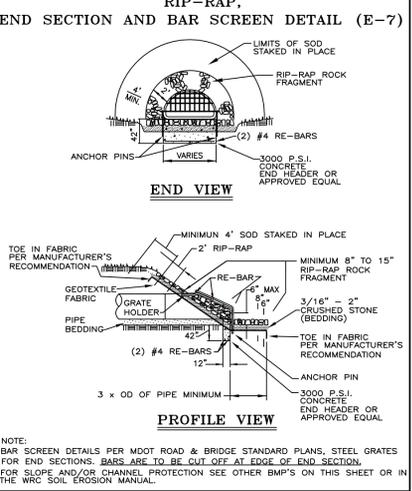
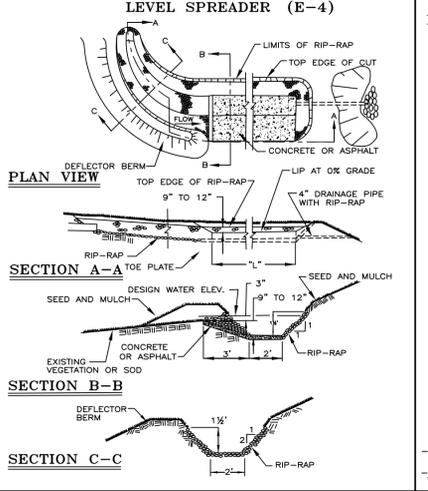
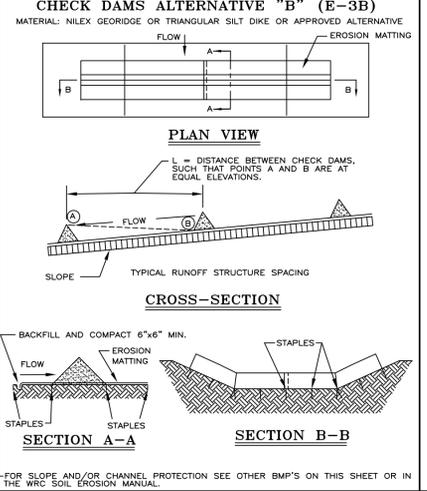
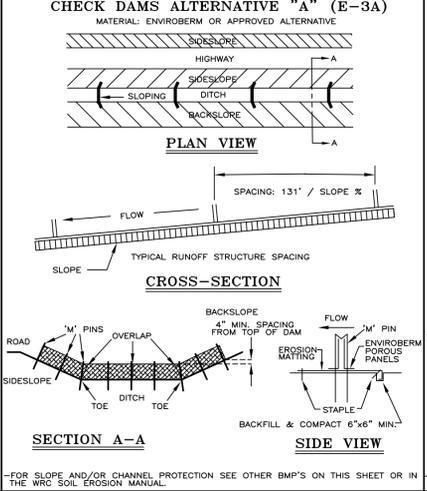
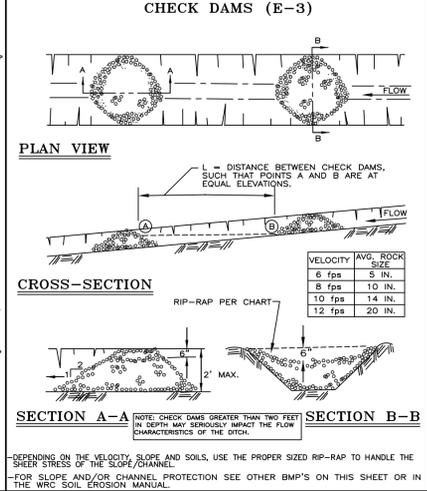
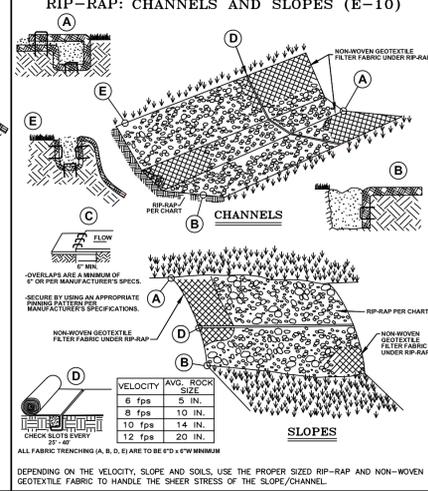
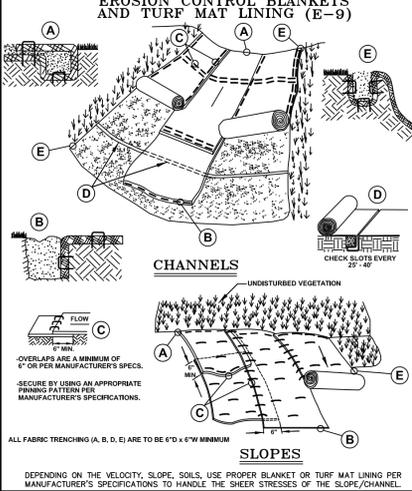
REGISTRATION SEALS

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PROJECT TITLE
NEW SMITH MIDDLE SCHOOL

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



NOTE:

WHILE PERFORMING WORK INVOLVING GROUNDS MAINTENANCE AND/OR THE CONSTRUCTION/MAINTENANCE OF ANY INFRASTRUCTURE, INCLUDING ROADS, WATER MAINS, SANITARY SEWERS, STORM DRAINS AND STORM WATER BEST MANAGEMENT PRACTICES (BMPs), CONTRACTORS SHALL MINIMIZE POLLUTION FROM STORM WATER RUNOFF THAT CAN AFFECT WATER QUALITY RELATED TO WORK ACTIVITIES. POLLUTANTS THAT COULD IMPAIR WATER QUALITY MAY INCLUDE FUEL, GREASE AND OIL, NUTRIENTS, BACTERIA AND PATHOGENS, LITTER AND DEBRIS, AND SOIL EROSION AND SEDIMENTATION. APPLICABLE BMPs SHALL BE IMPLEMENTED BY THE CONTRACTOR TO THE MAXIMUM EXTENT PRACTICABLE TO PROTECT WATER QUALITY AND WILDLIFE HABITAT.

SOIL EROSION AND SEDIMENTATION CONTROL DETAILS

REV.	BY	DATE	DESCRIPTION
1	WRC	01/01/01	ISSUED FOR CONSTRUCTION
2	WRC	01/01/01	PROPOSED DETAIL REVISIONS
3	WRC	01/01/01	FOR CONSTRUCTION APPROVAL, NAME CHANGES
4	WRC	01/01/01	FOR CONSTRUCTION APPROVAL, NAME CHANGES
5	WRC	01/01/01	FOR CONSTRUCTION APPROVAL, NAME CHANGES

ORIG. DATE: 01/01/01

SCALE: _____

DESIGNED BY: WRC

DRAWN BY: Mapping

WRC WATER RESOURCES COMMISSIONER

ONE PUBLIC WORKS DRIVE, BLDG 905 WEST WATERFORD, MICHIGAN 48320-1907

SHEET NO.: 1 of 1



TMP ARCHITECTURE INC
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REGISTRATION SEAL

CONSULTANT

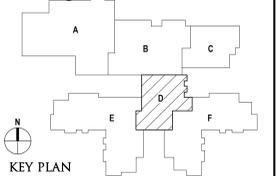


WILLIAM A. KIRBE & ASSOCIATES, INC.
ENGINEERS | ARCHITECTS | SURVEYORS

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

Troy School District
Troy, Michigan

DRAWING TITLE
**Second Floor / Low Roof
Framing Plan Zone 'D'**

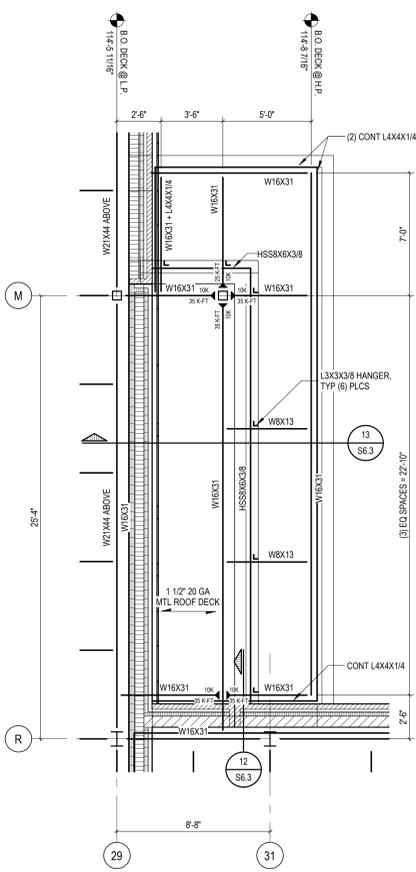
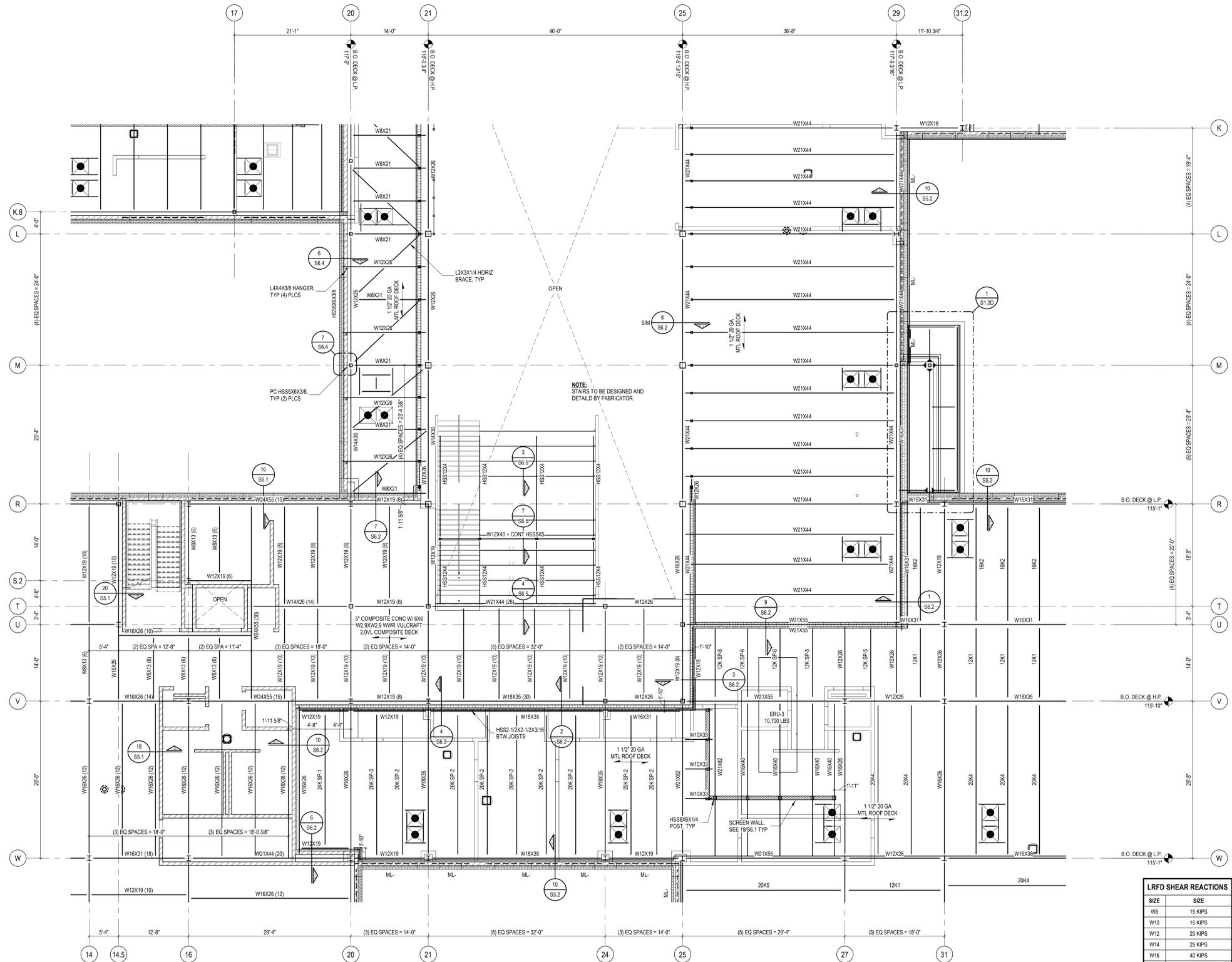


ISSUE DATES

DATE	ISSUED FOR
01-23-2024	CONSTRUCTION DOCUMENTS

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

PROJECT NO.
22102
DRAWING NO.
S1.2D



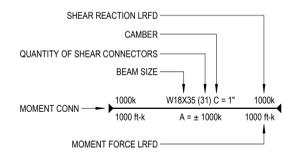
1 FRAMING PLAN - ZONE 'D'
S1.2D
SCALE: 1/4" = 1'-0"

SECOND FLOOR / LOW ROOF FRAMING PLAN - ZONE 'D'
SCALE: 1/8" = 1'-0"

LRFD SHEAR REACTIONS

SIZE	SIZE
W8	15 KIPS
W10	15 KIPS
W12	25 KIPS
W14	25 KIPS
W16	40 KIPS
W18	50 KIPS
W21	55 KIPS
W24	65 KIPS

NOTE: DESIGN ALL SHEAR CONNECTIONS FOR LOADS IN ABOVE TABLE U.N.O.



NOTE: SHEAR CONNECTORS FOR COMPOSITE BEAMS SHALL BE 3/4" Ø X 3 1/2" LONG. LENGTH INDICATED SHALL BE THE FINAL LENGTH AFTER WELDING. SEE TYPICAL DETAILS FOR PLACEMENT.

- NOTES:**
- SEE S5.1 FOR TYPICAL LOOSE LINTEL SCHEDULE U.N.O., SEE ARCH FOR OPENING SIZES AND LOCATIONS.
 - SEE S5.1 FOR TYPICAL MASONRY LINTEL SCHEDULE U.N.O., SEE ARCH FOR OPENING SIZES AND LOCATIONS.
 - JOIST MANUFACTURER SHALL DESIGN ALL JOIST / BRIDGING FOR A NET UFT PER PLETT DIAGRAMS, SEE S3.1.
 - REFER TO S3.1 FOR SPECIAL JOIST LOAD DIAGRAMS.
 - SEE DRAWING S3.1 FOR ROOF DECK ATTACHMENT DETAIL.
 - INDICATES MOMENT CONNECTION DESIGN CONNECTION FOR LOADS SHOWN.
 - SEE 418.1 FOR TYP RTU SUPPORT FRAME. COORDINATE ALL RTU AND OPENING DIMENSIONS WITH MECHANICAL.
 - SEE S6.1 FOR COLUMN AND BEARING PLATE SCHEDULES.
 - MASONRY SHOWN FOR REFERENCE. MASONRY BID DOCUMENTS HAVE NOT YET BEEN ISSUED.

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REGISTRATION SEAL

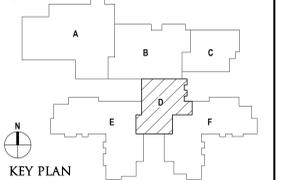
CONSULTANT



PROJECT TITLE
NEW SMITH MIDDLE SCHOOL
Bid Package No. 03A

Troy School District
Troy, Michigan

DRAWING TITLE
High Roof Framing Plan Zone 'D'



ISSUE DATES

DATE	ISSUED FOR
01-23-2024	CONSTRUCTION DOCUMENTS

DATE: ISSUED FOR:

DRAWN: D. BART

CHECKED: B. KANNERS

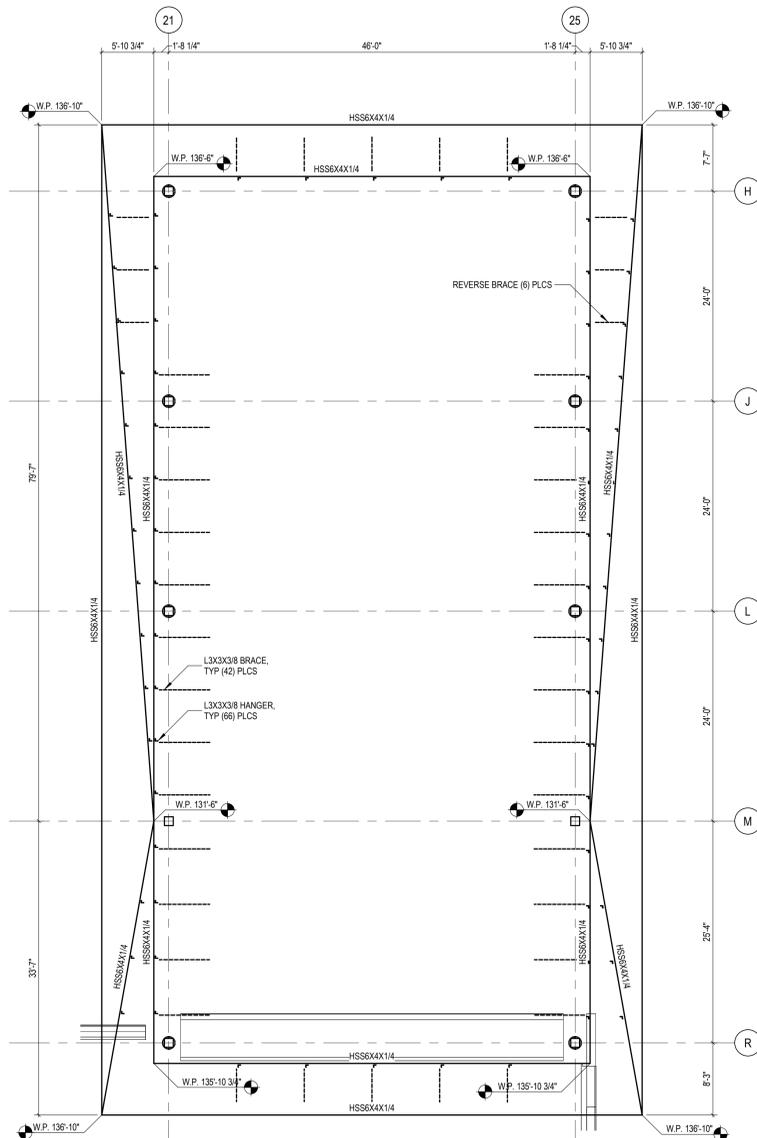
APPROVED: E. MANNOR

PROJECT NO.

22102

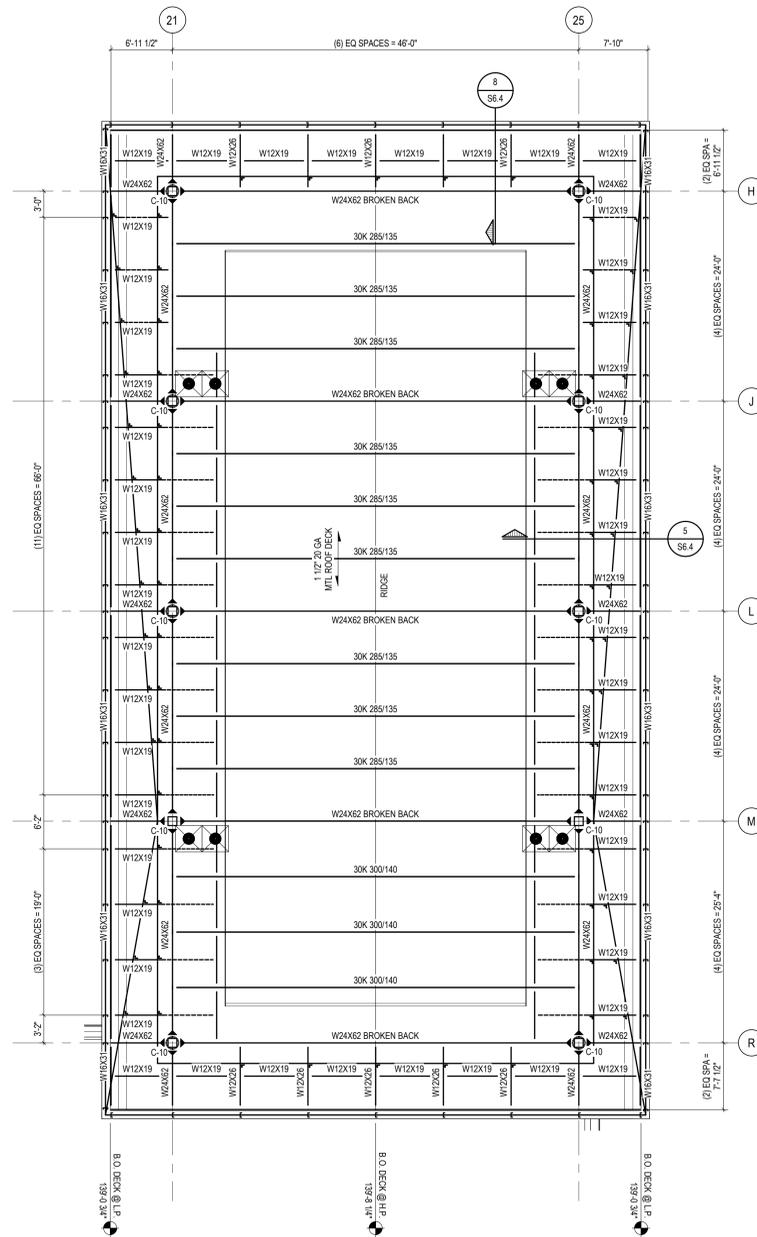
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S1.3D

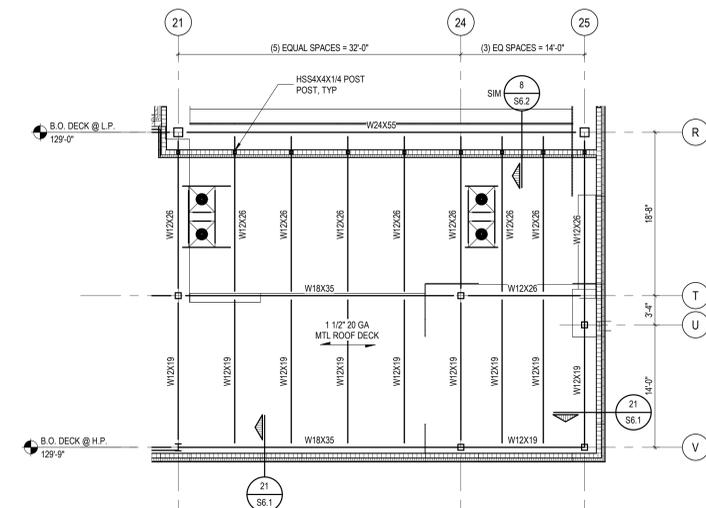


NOTE:
WORKING POINTS ARE BASED
ON BOTTOM OF STEEL

HIGH ROOF FRAMING PLAN - ZONE 'D'
SCALE: 1/8" = 1'-0"



HIGH ROOF FRAMING PLAN - ZONE 'D'
SCALE: 1/8" = 1'-0"



HIGH ROOF FRAMING PLAN - ZONE 'D'
SCALE: 1/8" = 1'-0"

SIZE	SIZE
W8	15 KIPS
W10	15 KIPS
W12	25 KIPS
W14	25 KIPS
W16	40 KIPS
W18	50 KIPS
W21	55 KIPS
W24	65 KIPS

NOTE:
DESIGN ALL SHEAR CONNECTIONS
FOR LOADS IN ABOVE TABLE U.N.O.

NOTES:

- SEE S5.1 FOR TYPICAL LOOSE LINTEL SCHEDULE U.N.O., SEE ARCH FOR OPENING SIZES AND LOCATIONS.
- SEE S5.1 FOR TYPICAL MASONRY LINTEL SCHEDULE U.N.O., SEE ARCH FOR OPENING SIZES AND LOCATIONS.
- JOIST MANUFACTURER SHALL DESIGN ALL JOIST BRIDGING FOR A NET UPLIFT PER JOIST DIAGRAMS, SEE S3.1.
- REFER TO S3.1 FOR SPECIAL JOIST LOAD DIAGRAMS.
- SEE DRAWING S3.1 FOR ROOF DECK ATTACHMENT DETAIL.
- INDICATES MOMENT CONNECTION DESIGN CONNECTION FOR LOADS SHOWN.
- SEE 4158.1 FOR TYP RTU SUPPORT FRAME. COORDINATE ALL RTU AND OPENING DIMENSIONS WITH MECHANICAL.
- SEE S6.1 FOR COLUMN AND BEARING PLATE SCHEDULES.
- MASONRY SHOWN FOR REFERENCE. MASONRY BID DOCUMENTS HAVE NOT YET BEEN ISSUED.

