ADDENDUM NO. 1

October 24, 2023

HANOVER COMMUNITY SCHOOLS - JANE BALL ELEMENTARY RENOVATIONS AND HIGH SCHOOL IMPROVEMENTS

TO: ALL BIDDERS OF RECORD

This Addendum forms a part of and modifies the Bidding Requirements, Contract Forms, Contract Conditions, the Specifications, and the Drawings dated October 13, 2023 by Gibraltar Design. Acknowledge receipt of the Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification.

This Addendum consists of Page ADD 1-1 through ADD 1-3 and attached Addendum No. 1 from Gibraltar Design dated October 24, 2023 and consisting of 3 pages, Specification Section 08 91 00 - Aluminum Wall Louvers, and 11 drawings.

A. SPECIFICATION SECTION 00 20 00 - TABLE OF CONTENTS

1. **Add:**

   Specification Section 08 91 00 - Aluminum Wall Louvers

B. SPECIFICATION SECTION 01 12 00 - MULTIPLE CONTRACT SUMMARY

Under 3.02 General Requirements

B. PROVIDED BY ALL CONTRACTORS AS APPLICABLE

1. **ADD:**

Clarification No. 3:

Use of excessive noise producing equipment and demolition operations that will interrupt normal school instruction will not be permitted during normal school operating hours. Contractors that require such equipment or that have interruptive demolition operations shall include in their bid the performance of such work after normal school operating hours. Contractors requiring the use or installation of materials that create excessive fumes must include in their bid the performance of such work after normal school operating hours. The contractor performing the work shall provide adequate ventilation to control fumes to allow normal school operations after the installation is completed.

Clarification No. 4:

Contractors having flooring systems or sealers assigned to their scope of work will be responsible to provide cleaning of all concrete floors, including those that will receive ceramic tile, resilient flooring, carpet, epoxy, etc. Use a sanding machine to remove all traces of plaster, grit, foreign substances, paint, trowel marks, and other deficiencies on the surface of the concrete. After the sanding operation is complete, vacuum all floors to ensure the removal of all dust and debris. Broom clean Mechanical Equipment Room floors and remove all foreign substances immediately prior to the application of the sealer in conformance with the manufacturer's specifications.

Under 3.03 Bid Categories

A. BID CATEGORY NO. 1 - SITEWORK/GENERAL TRADES

1. **ADD:**

Clarification No. 11:

The **Bid Category No. 1 Contractor** is responsible for the removal, storing and reinstallation of existing acoustical ceiling tile as required for new mechanical and plumbing as required per construction documents.

Clarification No. 12:

The **Bid Category No. 1 Contractor** is responsible for maintaining the SWPPP as indicated on Drawing Sheets C5.0 and C6.0 including site inspection and the maintenance log.

C. BID CATEGORY NO. 3 - PLUMBING/MECHANICAL

1. **ADD:**

   Specification Section 08 91 00 - Aluminum Wall Louvers

ADDENDUM ONE

Addendum One (AD.01) to the drawings and specifications prepared by Gibraltar Design for **Jane Ball Elementary School Renovation** for Hanover Community School Corporation, Cedar Lake, Indiana.

All Contractors bidding on this project shall read all of the items covered below and shall comply with all of the requirements as set forth, including any necessary refinements or additions generated by this Addendum and required by the intent of the original contract documents. All Contractors shall acknowledge on their bid form that they have received this Addendum and include the appropriate content of same within their bid proposal.

SPECIFICATIONS

1. Specification Section 00 01 10 Table of Contents

Add new Specification Section 08 91 00, Aluminum Wall Louvers, to Division 08 on the Table of Contents.

2. Specification Section 08 71 00 Door Hardware

A. Revise door hardware Groups as follow:

HARDWARE GROUP NO. 01
For use on Door #(s):
~~128-A~~ **129-A**

Provide each OPENING with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	PRIVACY LOCK	L9040 03A L583-363 L283-722	626	SCH
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS401/402CVX	626	IVE
3	EA	SILENCER	Q146		STE

HARDWARE GROUP NO. 06

For use on Door #(s):

126-A

Provide each OPENING with the following:

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
EA	NOTE	**SALVAGE AND RE-USE DR AND HW FROM SPEECH B-126**		

HARDWARE GROUP NO. 07

For use on Door #(s):

~~129-A~~ **128-A**

Provide each OPENING with the following:

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
EA	NOTE	**SALVAGE AND RE-USE DR AND HW FROM TOILET B-128**		

HARDWARE GROUP NO. 08

For use on Door #(s):

127-A

Provide each OPENING with the following:

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
EA	NOTE	**SALVAGE AND RE-USE DR AND HW FROM TITLE B-127**		

3. Specification Section 08 91 00 Aluminum Wall Louvers

A. Add Specification Section 08 91 00, Aluminum Wall Louvers, included in this Addendum, to the Project Manual.

DRAWINGS

4. Sheets G-101

A. Refer to revised full-size drawing, included in this Addendum for the following revisions:

1. Add Civil sheets to Sheet Index

5. Sheet C-1.0, C-1.1, C-2.0, C-3.0, C-4.0, C-5.0, and C-6.0

A. Refer to new full-size drawings, included in this Addendum for the addition of Civil work.

6. Sheet AD-102

A. Refer to revised full-size drawing, included in this Addendum for the revision of demolition note 6.

7. Sheet A-102

A. Refer to revised full-size drawing, included in this Addendum for revisions.

1. Revise Plan note 18.
2. Remove note 18 from door 129-A and add note 18 to door 128-A

8. Sheet A-601

A. Refer to revised full-size drawing, included in this Addendum for revisions to doors 126-A, 127-A, 128A, and 129A on the door schedule.

Pages 1 through 3, inclusive, Specification Section 08 91 00, and eleven (11) Full-Size Drawings, constitute the total makeup of **Addendum One**.

GIBRALTAR DESIGN

Joseph P. Briggs

Y:\20-139 Hanover CSC - Middle School Addition\Specs\Addendum One\AD01.doc

SECTION 08 91 00
ALUMINUM WALL LOUVERS

1 General

1.1 Section Includes

A. Louvers and frames.

B. Bird screening.

C. Blank out sheeting.

1.2 Related Sections

A. Section 04 20 00 - Unit Masonry: Prepared exterior wall openings.

B. Section 07 90 00 - Joint Sealants.

C. Section 23 31 00 - Ductwork: Ductwork attachment to louver.

1.3 References

A. AA - Designation System for Aluminum Finishes.

B. ASTM B209 - Aluminum and Aluminum-Alloy Sheet and Plate.

C. ASTM B221 - Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Shapes, and Tubes.

1.4 System Performance

A. Installed louver to permit passage of indicated air volume at 0 water penetration at 1250 feet per minute free area velocity, without blade vibration or noise, with maximum static pressure loss of 0.15 inch WG measured at 1250 feet per minute.

B. Installed louver to permit passage of indicated air volume at 0 water penetration at 1000 feet per minute free area velocity, without blade vibration or noise, with maximum static pressure loss of 0.15 inch WG measured at 1000 feet per minute.

1.5 Submittals

A. Provide product data on preassembled louvers describing design characteristics, maximum recommended air velocity, free area, materials, and finishes.

B. Indicate elevations, dimensions, and tolerances; head, jamb, and sill details; blade configuration; screening; and frames.

1.6 Coordination

A. Coordinate work of this Section with installation of masonry flashings and metal siding.

B. Coordinate work of this Section with mechanical ductwork.

1.7 Warranty

A. Furnish a five (5) year warranty from the manufacturer and from the installation contractor against leakage, rattling, and whistling.

2 Products

2.1 Aluminum Wall Louvers - Acceptable Manufacturers

A. Airolite Company, Marietta, Ohio (AI).

B. Construction Specialties (CS Group), Cranford, New Jersey (CS).

C. Industrial Louvers, Inc., Delano, Minnesota (I).

D. Louvers & Dampers, Inc., Florence, Kentucky (LD).

E. Greenheck, Schofield, Wisconsin (G).

F. Ruskin Manufacturing Company, Grandview, Missouri (R).

2.2 Materials

A. Aluminum: ASTM B221, 6063 alloy, T5 temper, extruded shape; ASTM B209, 3003 alloy, H14 temper, sheet.

B. Fasteners and Anchors: Stainless steel type.

C. Finish: Kynar 500 or Hylar 5000 fluoropolymer resin coating, color as selected by the Architect.

2.3 Accessories

A. Bird Screen: Interwoven wire mesh of aluminum, 0.063 inch diameter wire, 1/2 inch open weave, square design.

B. Clip Angles: 1-1/2 inch by 1-1/2 inch aluminum angle, by 2 inches long, minimum two per side.

C. Perimeter Angle: 3/4 inch by 3/4 inch by 1/8 inch aluminum angle at exterior perimeter.

2.4 Fabrication

A. Wall Louvers and Penthouses:

1. Louver Size: As indicated.

2. Louver Blade: Sloped at 35 degrees, minimum; drainable; minimum material thickness of 0.081 inch.

3. Louver Frame: Channel shape, drainable jambs, welded corner joints, material thickness of 0.081 inch.

4. Mullions: Concealed (if possible), aluminum, profiled to suit louver frame.

5. Sill: Material thickness of 0.063 inch; extend 1/2 inch beyond wall line; closed ends.

6. Screens: Install screen mesh in channel shaped frame with reinforced corner construction; screw to interior face of louver frame and to exterior face of penthouse frame.

2.5 Wall Louvers - 6 Inches Thick, High Performance

A. Type K6776 (AI).

B. Model A6177 (CS).

C. Model 653-XP (I).

D. Model IEL-67 (LD).

E. Model ESD-603 (G).

F. Type ELF 6350DMP (R).

3 Execution

3.1 Inspection

A. Verify that prepared openings and flashings are ready to receive work and opening dimensions are as indicated on shop drawings.

B. Beginning of installation means acceptance of existing conditions.

3.2 Installation

A. Install louver and penthouse assembly in accordance with manufacturer's instructions.

B. Install louvers level and plumb.

C. Secure louvers in opening framing with concealed fasteners.

1. Make wall louvers removable where indicated.

D. Align louver assembly to ensure moisture is shed from flashings and diversion of moisture to exterior.

E. Install bird screening to louver. Make exterior screens removable.

3.3 Cleaning

A. Clean surfaces and components.

END OF SECTION

PROJECT:

HANOVER CSC - JANE BALL ELEMENTARY SCHOOL RENOVATION

HANOVER COMMUNITY SCHOOL CORPORATION
CEDAR LAKE, INDIANA

100% CONSTRUCTION DOCUMENTS
10/13/2023

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G-202 HIGH SCHOOL LIFE SAFETY PLAN

G-301 TYPICAL MOUNTING HEIGHTS, PARTITION TYPES, ABBREVIATIONS, SYMBOLOGY, AND LEGEND

C CIVIL

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C-1.1 DEMOLITION PLAN

C-2.0 SITE PLAN

C-3.0 GRADING PLAN

C-4.0 DETAILS & SPECIFICATIONS

C-5.0 STORM WATER POLLUTION PREVENTION PLAN

C-6.0 DETAILS & SPECIFICATIONS

AD-1

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S-100 UNIT B STRUCTURAL PLAN
S-101 NEW CANOPY STRUCTURAL PLANS

S-401 STRUCTURAL SECTIONS AND DETAILS

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A-501 TYPICAL DETAILS, CASEWORK SCHEDULE, ELEVATIONS, AND TOILET ROOM PLANS

A-601 DOOR SCHEDULE, FRAMES PROFILES, ELEVATIONS, AND DETAILS
A-610 ALUMINUM STOREFRONT FRAME ELEVATIONS AND DETAILS

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A-802 UNIT "B" FIRST FLOOR FINISH PLAN
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M MECHANICAL

MD101 UNIT "A" FIRST FLOOR DEMOLITION PLAN – MECHANICAL
MD102 UNIT "B" FIRST FLOOR DEMOLITION PLAN – MECHANICAL
MD103 UNIT "C" FIRST FLOOR DEMOLITION PLAN – MECHANICAL
MD110 HS LOCKER ROOM MECHANICAL DEMOLITION PLAN

M-101 UNIT "A" FIRST FLOOR PLAN – MECHANICAL
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E ELECTRICAL

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ED102 UNIT "B" FIRST FLOOR DEMOLITION PLAN – ELECTRICAL
ED103 UNIT "C" FIRST FLOOR DEMOLITION PLAN – ELECTRICAL
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E-210 HS LOCKER ROOM ELECTRICAL POWER PLAN

E-300 ELECTRICAL NOTES, SCHEDULES AND DETAILS
E-301 ELECTRICAL NOTES, SCHEDULES AND DETAILS

GIBRALTAR
DESIGN
ARCHITECTURE ENGINEERING INTERIOR DESIGN

ARCHITECT OF RECORD	ENGINEER OF RECORD	ENGINEER OF RECORD	ENGINEER OF RECORD
JOSEPH P. BRIGGS REGISTERED NO. 11600109 STATE OF INDIANA ARCHITECT	DONALD C. TORRENCE REGISTERED No. 19868 STATE OF INDIANA PROFESSIONAL ENGINEER	SCOTT A. CLOSE REGISTERED PE10806154 STATE OF INDIANA PROFESSIONAL ENGINEER	DAVID G. JANNEY REGISTERED NO. 10302590 STATE OF INDIANA PROFESSIONAL ENGINEER

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PROJECT
HANOVER CSC - JANE BALL ES RENOVATIONS AND HS IMPROVEMENTS
HANOVER COMMUNITY SCHOOL CORPORATION
CEDAR LAKE, INDIANA

PROJECT
23-140
DATE
10/13/23
COORDINATED BY
DTB
DRAWN BY
DTB
CHECKED BY
DTB DJW

REVISIONS

MARK	DATE	ISSUED FOR
AD-1	10/24/23	ADDENDUM NO.1

DRAWING
COVER-SHEET INDEX

PROJECT
HANOVER CSC - JANE BALL ES RENOVATIONS AND HS IMPROVEMENTS

SHEET
G-101

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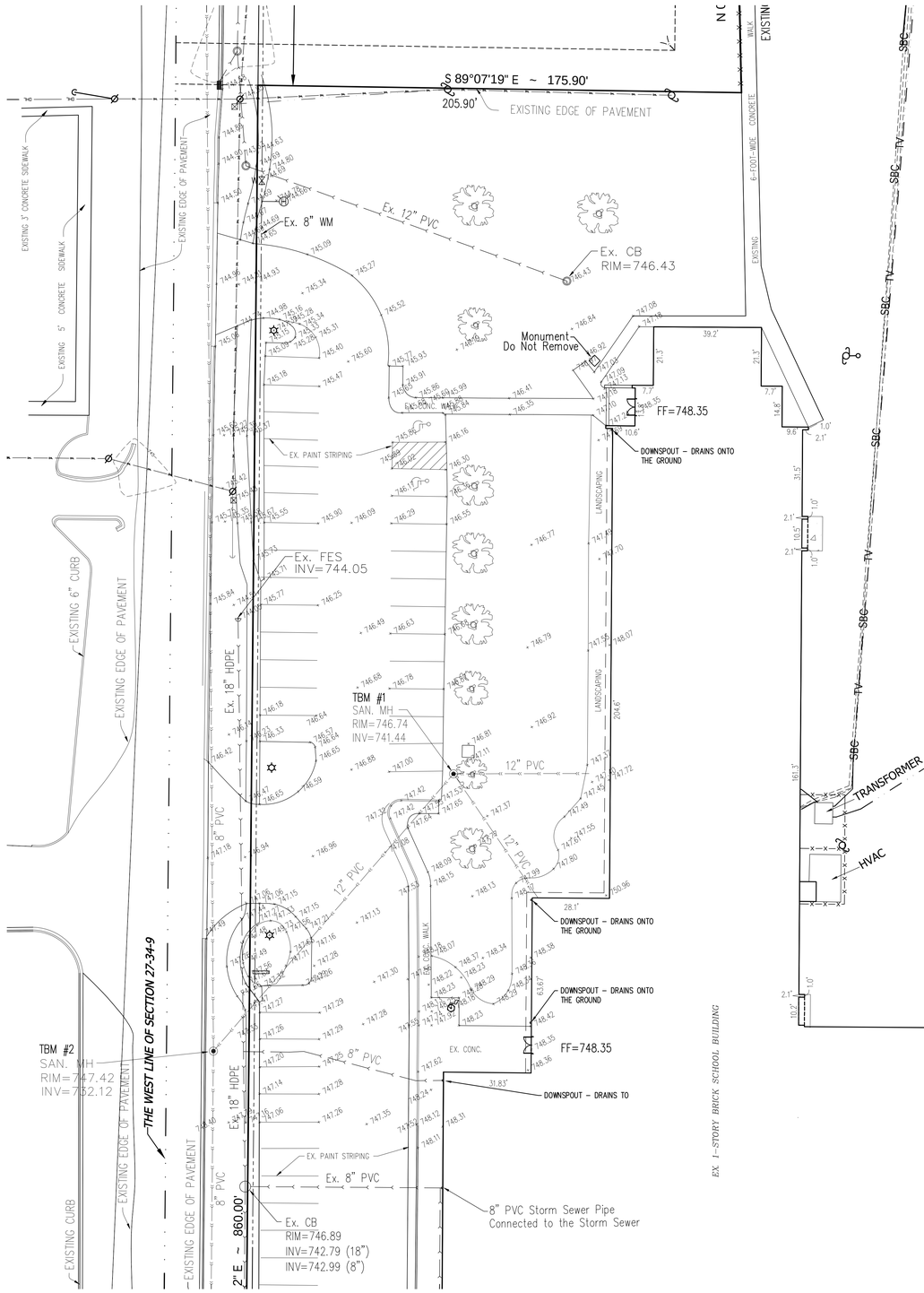
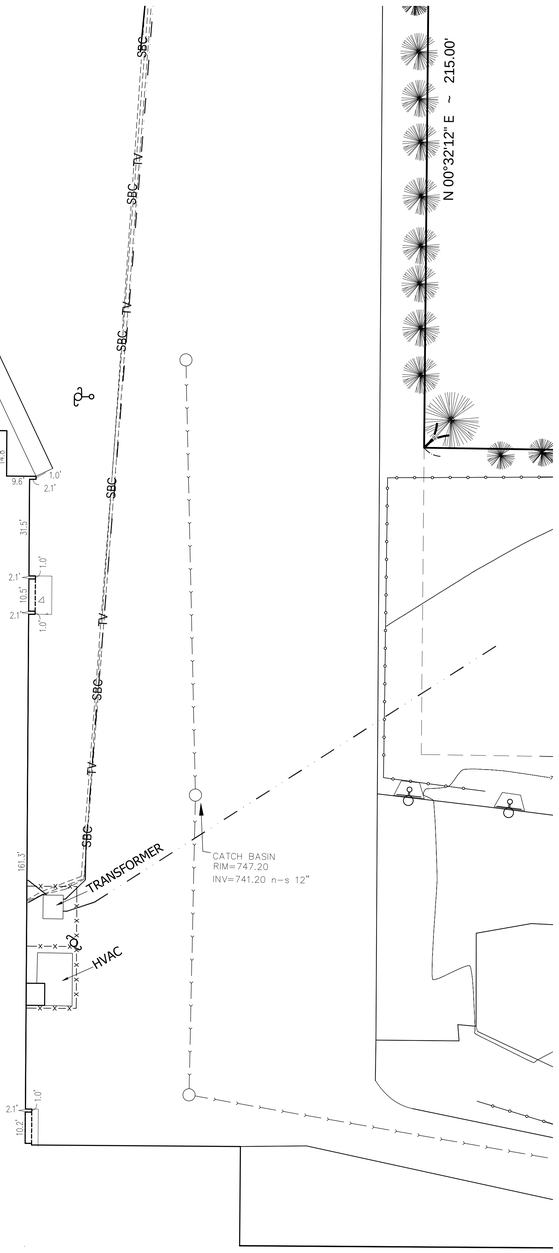
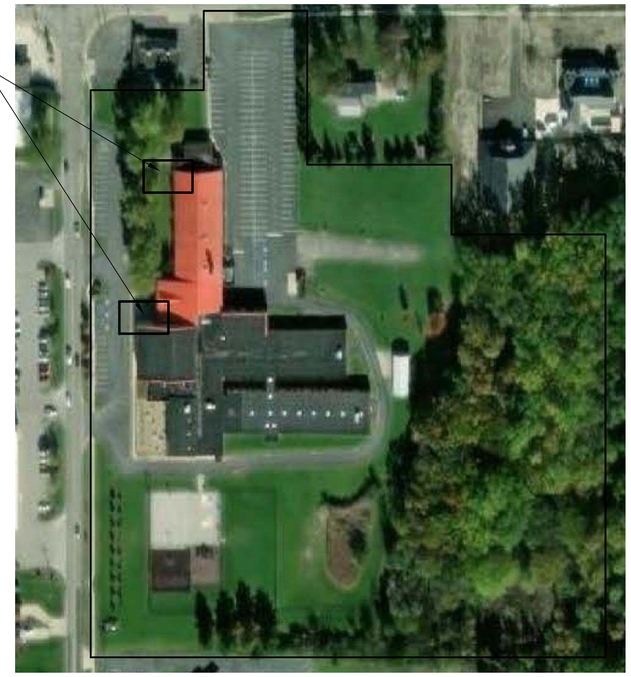




AREAS OF CONSTRUCTION



PROJECT SITE
NOT TO SCALE

LEGEND:

EXISTING

- LIGHT POLE
- CATCH BASIN/INLET OR MANHOLE
- WATER VALVE
- FIRE HYDRANT
- WATER MAIN LINE
- SANITARY SEWER
- STORM SEWER
- +000.00 GRADE
- SBC SBC TELEPHONE LINE

NOTE:
1) Temporary Benchmark Number 1 is the Northern Rim of the existing sanitary manhole located northwest of the main entrance. Elevation = 746.74

2) Temporary Benchmark Number 2 is the Northern Rim of the existing sanitary manhole located west of the main entrance. Elevation = 747.42

NORTH
GRAPHIC SCALE
20 0 10 20 40 80
(IN FEET)
1 inch = 20 ft.

GIBRALTAR DESIGN
ARCHITECTURE • ENGINEERING • INTERIOR DESIGN

PROJECT
HANOVER CSC - JANE BALL ES RENOVATIONS AND HS IMPROVEMENTS
HANOVER COMMUNITY SCHOOL CORPORATION
CEDAR LAKE, INDIANA

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PROJECT 23-140
DATE 10/16/23
COORDINATED BY DCT
DRAWN BY DCT EM
CHECKED BY DCT

DONALD C. TORRENGA REGISTERED No. 19868 STATE OF INDIANA PROFESSIONAL ENGINEER

REVISIONS

MARK	DATE	ISSUED FOR
AD-1	10/24/23	ADDENDUM NO. 1

DRAWING
EXISTING TOPOGRAPHY & UTILITIES

PROJECT
HANOVER CSC - JANE BALL ES RENOVATIONS AND HS IMPROVEMENTS

SHEET
C-1.0

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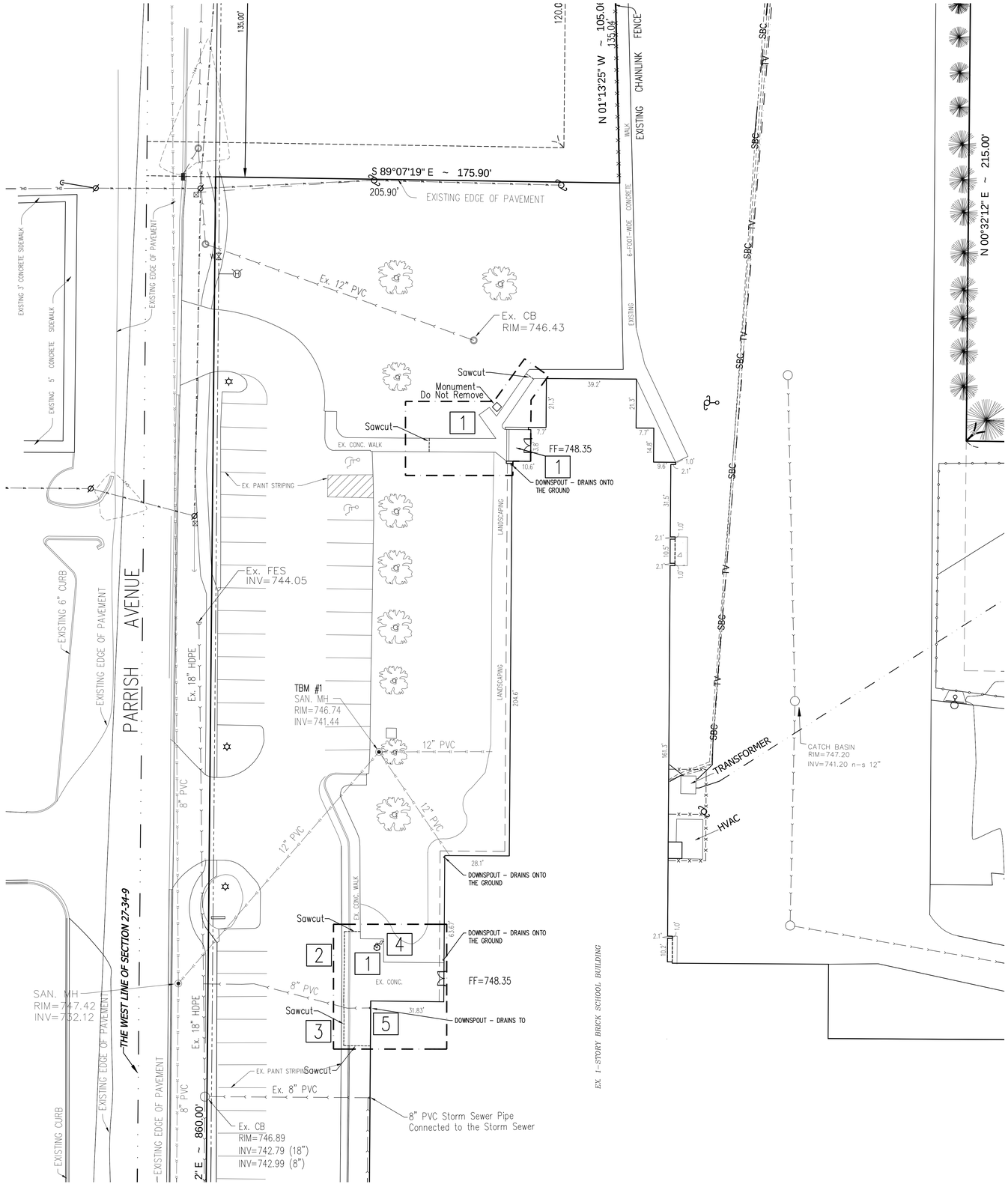

DEMOLITION NOTES

1. REMOVE CONCRETE SIDEWALK CONCRETE STAIRS & ENTRANCEWAY
2. REMOVE CURB / CURB & GUTTER
3. REMOVE ASPHALT
4. REMOVE FLAGPOLE
5. REMOVE DOWNSPOUT & DISCONNECT FROM STORM SEWER

NOTE:

1) Temporary Benchmark Number 1 is the Northern Rim of the existing sanitary manhole located northwest of the main entrance. Elevation = 746.74

2) Temporary Benchmark Number 2 is the Northern Rim of the existing sanitary manhole located south of the building. Elevation = 746.93

3) The Contractor is responsible to verify all existing site conditions and shall notify the Architect/Engineer immediately of any discrepancies between the existing conditions and all proposed improvements in the construction drawings.

NORTH
GRAPHIC SCALE
20 0 10 20 40 80
(IN FEET)
1 inch = 20 ft.

GIBRALTAR DESIGN
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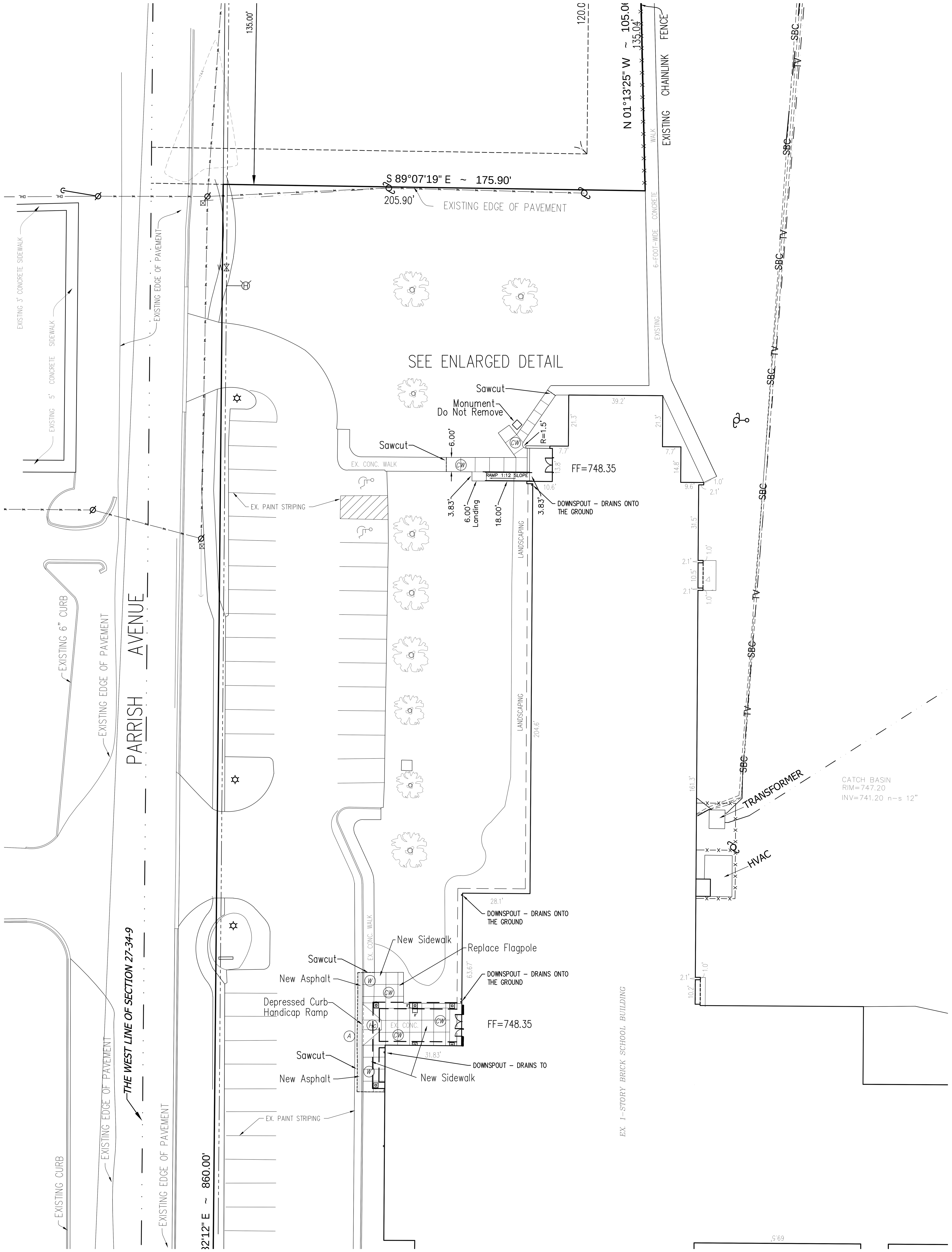
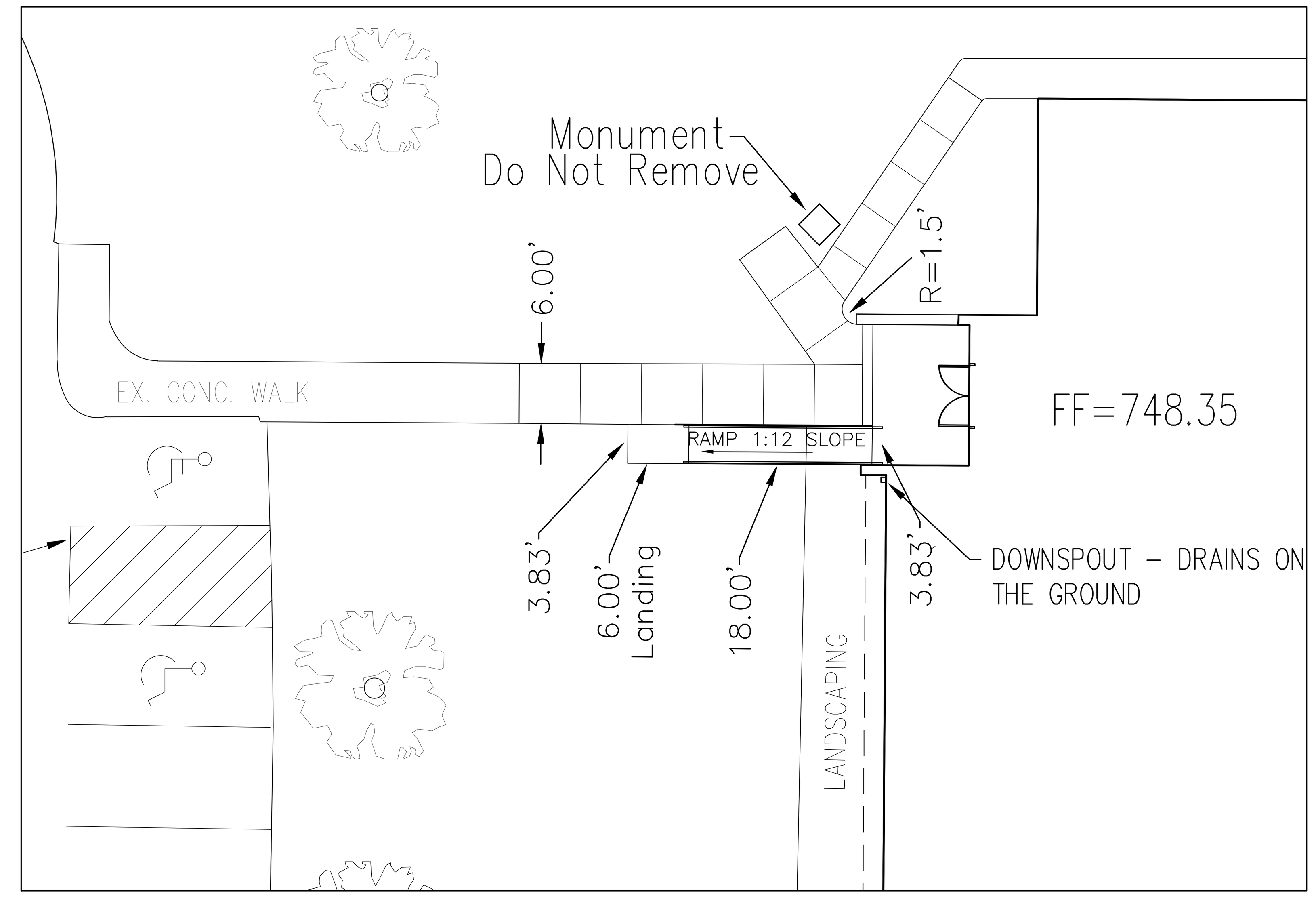
DRAWING
DEMOLITION PLAN

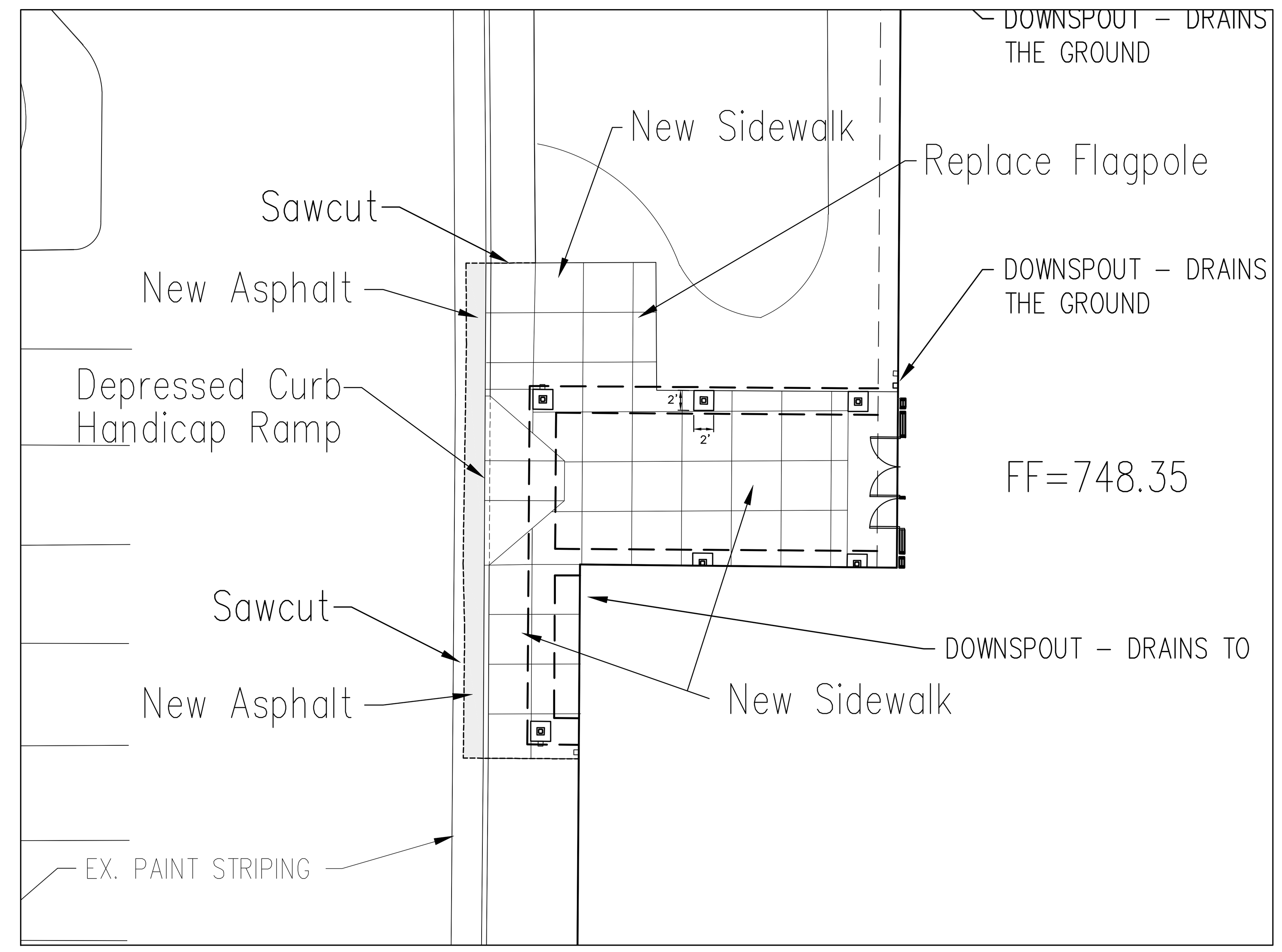
PROJECT
HANOVER CSC - JANE BALL ES RENOVATIONS AND HS IMPROVEMENTS

SHEET
C-1.1





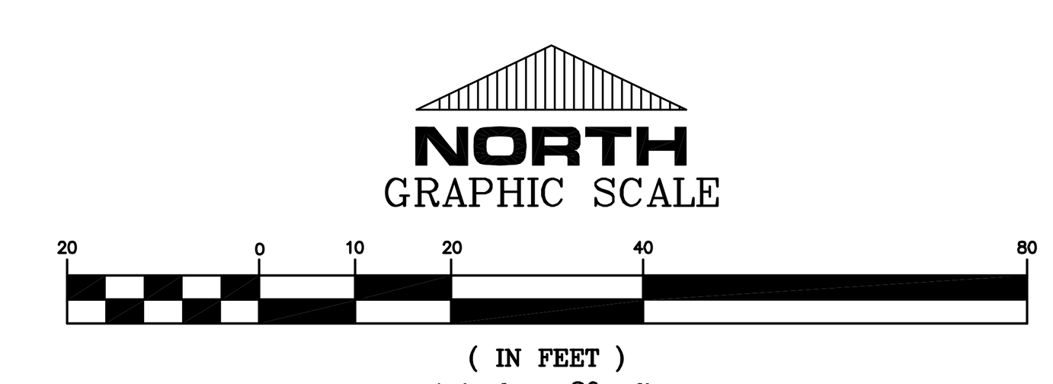
NORTHERN ENTRANCE
SCALE: 1"=40'



SOUTHERN ENTRANCE
SCALE: 1"=40'

LEGEND:
PROPOSED

Symbol	Description
A	ASPHALT PAVEMENT SECTION
W	TYPICAL PERIMETER SIDEWALK
CW	CONCRETE SIDEWALK
HC	HANDICAP ACCESS RAMP



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DRAWN BY DCT EM
CHECKED BY DCT

DONALD C. TORRENGA REGISTERED No. 19868 STATE OF INDIANA PROFESSIONAL ENGINEER

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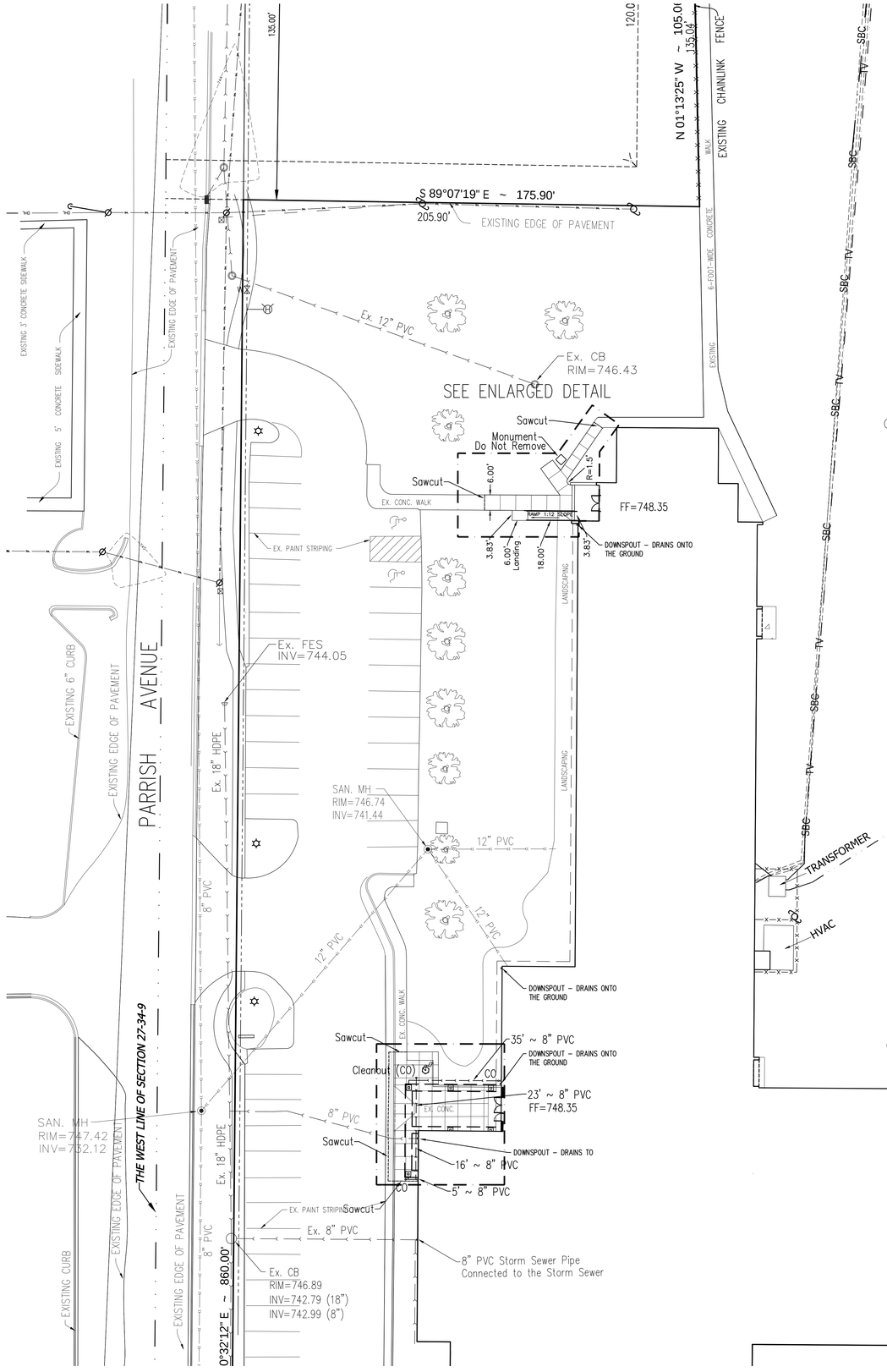
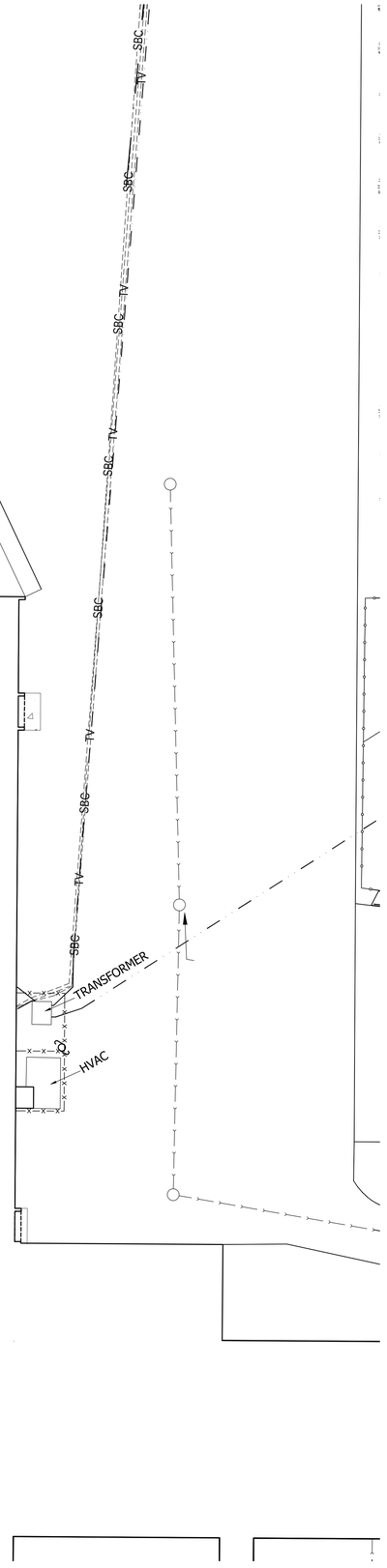
AD-1	10/24/23	ADDENDUM NO. 1

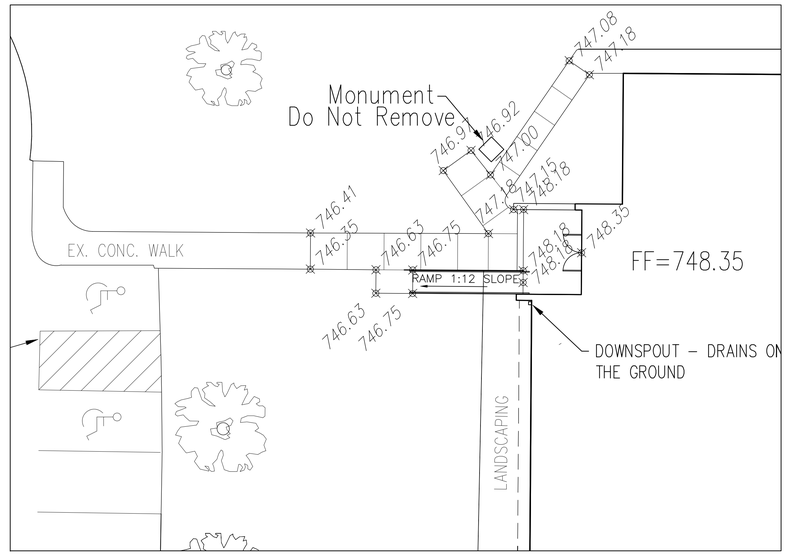
DRAWING
SITE PLAN

PROJECT
HANOVER CSC - JANE BALL ES RENOVATIONS AND HS IMPROVEMENTS

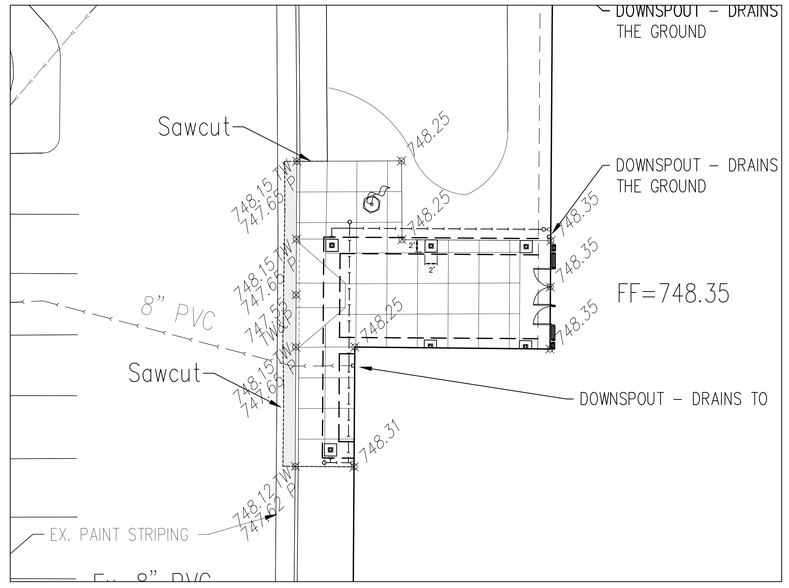
SHEET
C-2.0







NORTHERN ENTRANCE
SCALE: 1"=40'



SOUTHERN ENTRANCE
SCALE: 1"=40'

NORTH
GRAPHIC SCALE
20 0 10 20 40 80
(IN FEET)
1 inch = 20 ft.

GIBRALTAR
DESIGN
ARCHITECTURE • ENGINEERING • INTERIOR DESIGN

PROJECT
HANOVER CSC - JANE BALL ES RENOVATIONS AND HS IMPROVEMENTS

HANOVER COMMUNITY SCHOOL CORPORATION
CEDAR LAKE, INDIANA

TORRENGA ENGINEERING, INC.
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Phone 317.580.5777 Fax 317.580.5778

PROJECT 23-140
DATE 10/16/23
COORDINATED BY DCT
DRAWN BY DCT EM
CHECKED BY DCT

DONALD C. TORRENGA REGISTERED No. 19868 STATE OF INDIANA PROFESSIONAL ENGINEER

REVISIONS

MARK	DATE	ISSUED FOR
AD-1	10/24/23	ADDENDUM NO. 1

DRAWING
GRADING PLAN

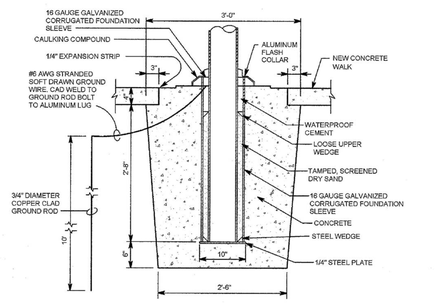
PROJECT
HANOVER CSC - JANE BALL ES RENOVATIONS AND HS IMPROVEMENTS

SHEET
C-3.0

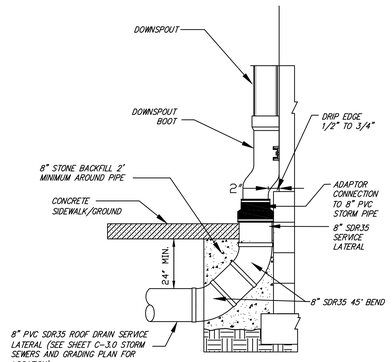
Z:\2023-5049 Jone Ball\dwg\2023-5049 Jone Ball.dwg 10/16/2023 2:34:22 PM CDT

GENERAL SPECIFICATIONS FOR STORM SEWERS

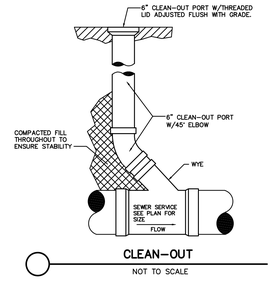
1. All work shall be performed in accordance with the Codes, Ordinances and Development Standards Manual of the Town of Cedar Lake and the 10 State Standards.
2. All storm sewer pipe, branches and fittings shall conform to either of the following: (A) Polyvinyl Chloride Type PSM (ASTM D-3034), SDR 26 with push-on rubber gasket joints (ASTM D-3212) less than 15" or: (B) Ductile Iron Pipe (AWWA C151), for pipe equal to or greater than 15 inch diameter, or: (C) Reinforced concrete pipe (ASTM C-76) with bell and spigot or tongue and groove push-on majestic joints, Class IV reinforced concrete pipe. ADS N12 ST perforated and non-perforated plastic pipe shall be used for drain tile applications only. Installation shall conform with ASTM D-22321 recommended practices, for pipe equal to or greater than 15 inch diameter.
3. All storm sewer manholes, catch basins, inlets and yard drains shall be standard precast concrete units (ASTM C-478) conforming to the standard detail sheet of these plans. Special Nyoplast Inline Catch Basins shall be used to drain the soccer field.
4. All improvements installed across paved or future paved areas shall be backfilled with graded stone aggregate to the subgrade line. Compaction shall be done in 12" maximum depth lifts to 95% maximum dry density.
5. Care shall be taken in parkway areas to assure compaction acceptable for the future stability of driveways and sidewalks. While special backfill material is not required, it shall be the responsibility of the Contractor to protect against potential future settlement of backfilled areas.
6. Pipe Grade shall be held within +/- 0.1 foot between manholes and the deviation per pipe length shall not exceed +/- ½ inch. Backfill shall be carefully placed to avoid pipe displacement, displacement of pipe shall not exceed 0.2 foot between manholes.
7. All sewers shall be laid at least 10 feet (3.0m) horizontally from any existing or proposed water main. The distance shall be measured edge to edge. All sewers crossing water mains shall be laid to provide a minimum vertical distance of 18 inches (46 cm) between the outside of the water main and the outside of the sewer. This shall be the case where the water main is either above or below the sewer. The crossing shall be arranged so that the sewer joints will be equidistant and as far as possible from the water main joints. Where a water main crosses under a sewer, adequate structural support shall be provided for the sewer to prevent damage to the water main. When it is impossible to obtain proper 10' horizontal and 18" vertical separation as stipulated above, the sewer shall be designed and constructed equal to water main pipe, a full length sewer pipe will be centered on the water main it is crossing.
8. Prior to release of any portion of the performance bond and after completion of all public improvements, the Owner shall make, or cause to the made, "As-Built" construction drawing showing the actual location, size, and lengths of all street improvements, sanitary and storm sewer improvements, water main improvements including valves, stubs and lateral and water services, and any other permanent improvements that the subdivider installs. The "As-Built" construction drawing shall be coordinated with sanitary and storm sewer video to ensure that lateral locations are properly located on the drawing. The "As-Built" construction drawing shall include as-built elevations at lot corners, breakpoints, low points, and building pad locations at the same location as shown on the approved grading plan. The "As-Built" construction drawing shall also be based on daily field drawings and no attempt shall be made to reconstruct locations after the fact. The "As-Built" construction drawing shall include as-built inverts, coordinates and rim elevations for all manholes, pipes, valves, and outlet structures. This "As-Built" construction drawing shall bear the signature and seal of a civil engineer registered in the State of Indiana and shall be submitted in three copies to the Administrator on reproducible materials. The as-built drawings shall also be submitted to the Administrator on electronic media in the latest AutoCAD release format. All data shall be provided in the Indiana State Plan Coordinate system.
9. Provide an electrically continuous type TW insulated #10 tracer wire. The wire shall be installed along the pipe, fastened to the pipe at twenty foot (20') intervals and terminated above ground with the lead taped around each structure.
10. Deflection test in accordance to ASTM D-3033 Standard shall be performed on all flexible pipe materials placed. The contractor shall be responsible for supplying testing materials and appurtenances. The tests shall be conducted after the final backfill has been in place at least 30 days. No pipe shall exceed a deflection of 5%. The deflection test is to be run using a rigid ball or mandrel, it shall have a diameter equal to 95% of the inside diameter of the pipe. The test shall be performed without mechanical pulling devices. Town of Cedar Lake shall be notified when the system (or portion thereof) is ready for testing.



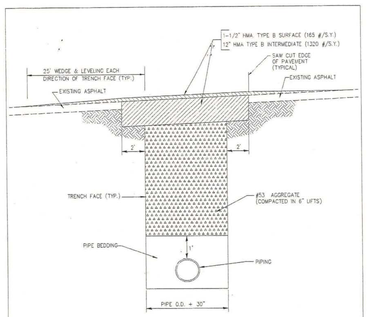
FLAG POLE FOUNDATION
NOT TO SCALE



(DOWN SPOUT)
ROOF DRAIN PIPE CONNECTION
NOT TO SCALE

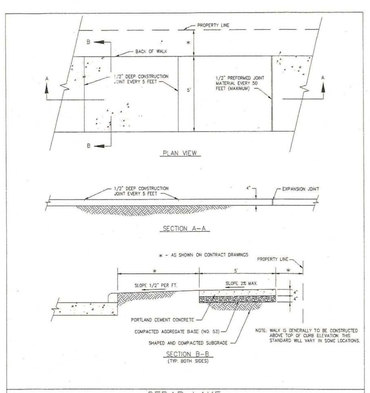


CLEAN-OUT
NOT TO SCALE



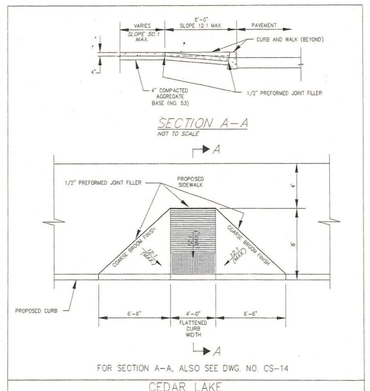
CEDAR LAKE
DEVELOPMENT STANDARDS MANUAL

PAVEMENT DETAILS		
ASPHALT PAVEMENT REPAIR		
SCALE: NONE	DATE: APRIL 2007	DWG. NO. ST-7



CEDAR LAKE
DEVELOPMENT STANDARDS MANUAL

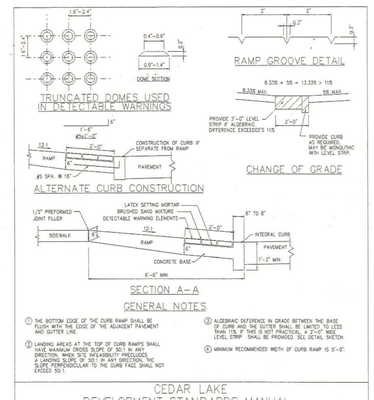
CURB,SIDEWALK & RAMP DETAILS		
CONCRETE SIDEWALK		
SCALE: NONE	DATE: APRIL 2007	DWG. NO. CS-7



FOR SECTION A-A, ALSO SEE DWG. NO. CS-14

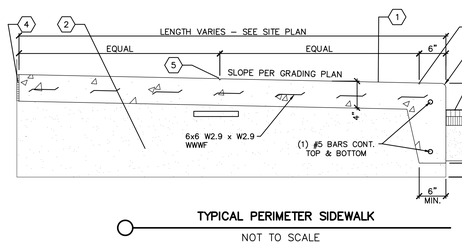
CEDAR LAKE
DEVELOPMENT STANDARDS MANUAL

CURB,SIDEWALK & RAMP DETAILS		
CURB RAMP, TYPE "A"		
SCALE: NONE	DATE: APRIL 2007	DWG. NO. CS-8



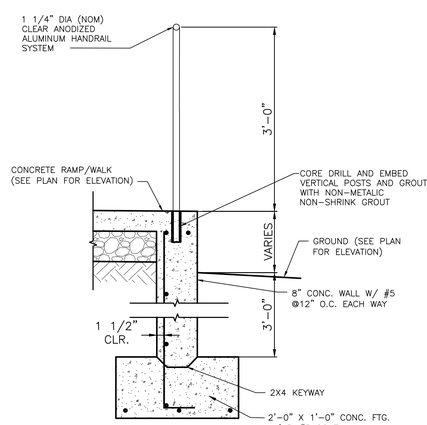
CEDAR LAKE
DEVELOPMENT STANDARDS MANUAL

CURB,SIDEWALK & RAMP DETAILS		
CURB RAMP DETAILS		
SCALE: NONE	DATE: APRIL 2007	DWG. NO. CS-14

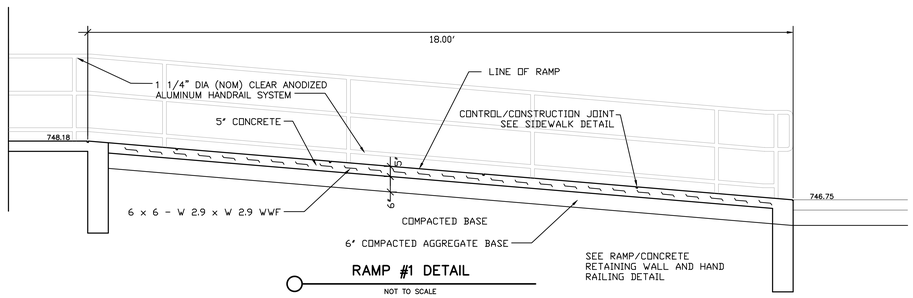


KEYED NOTES
1. 4" THICK CONC. BROOM FINISH WITH 6X6 W2.9XW2.9 WWWF
2. 6" COMPACTED GRANULAR FILL
3. PROPOSED PAVEMENT
4. COMPRESSIBLE FILLER (3/4" MAXIMUM). CUT BACK AND PROVIDE SEALANT, TYPICAL, AT ALL JOINTS WITH FILLER. (BUTTING BUILDING ONLY)
5. 1/4" TOOLED JOINT (SEE TYPICAL SIDEWALK DETAIL)

TYPICAL PERIMETER SIDEWALK
NOT TO SCALE



RAMP/CONCRETE RETAINING WALL AND HAND RAILING DETAIL
NOT TO SCALE



RAMP #1 DETAIL
NOT TO SCALE

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PROJECT 23-140
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REVISIONS

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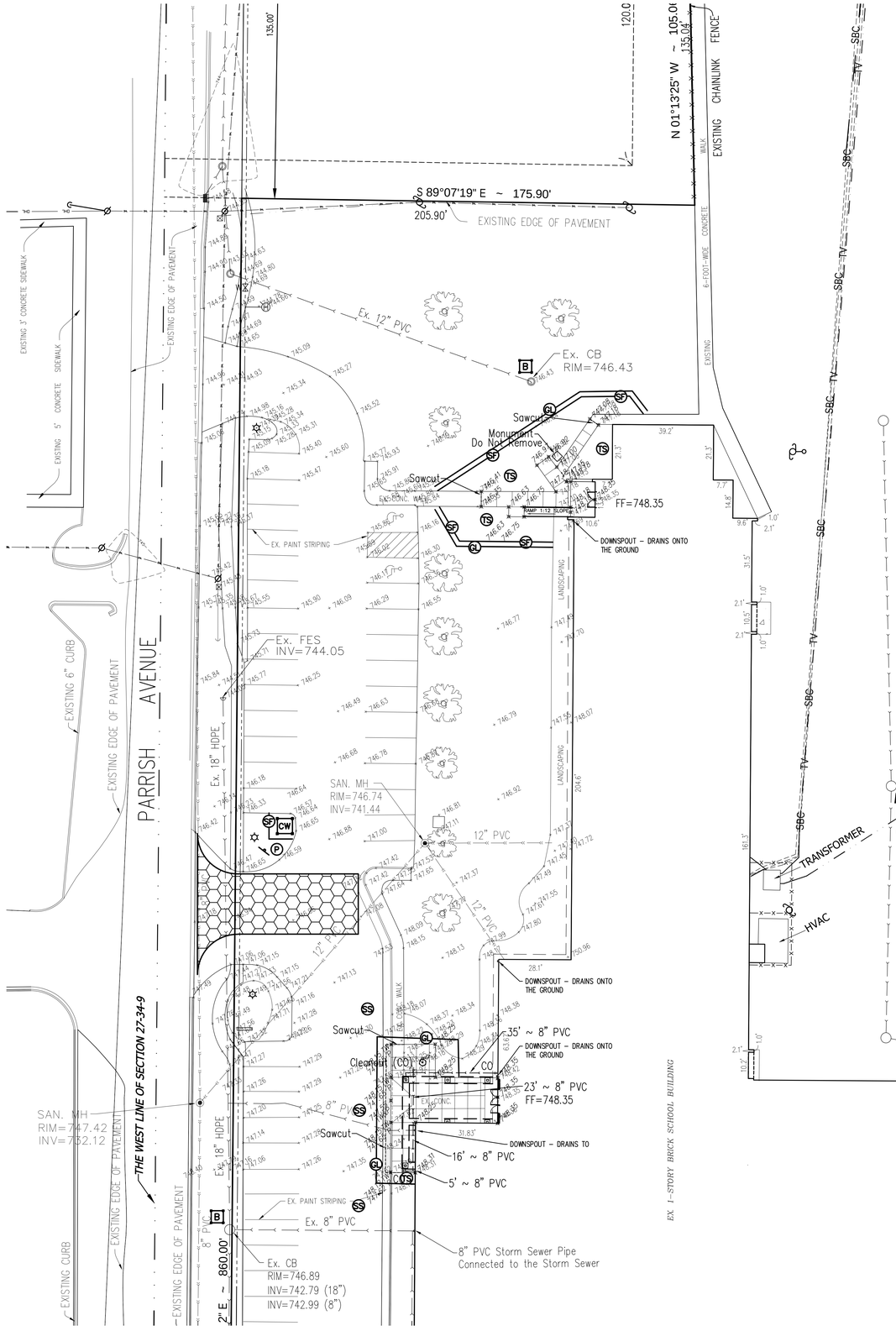
AD-1	10/24/23	ADDENDUM NO. 1

DRAWING
DETAILS & SPECIFICATIONS

PROJECT
HANOVER CSC - JANE BALL ES RENOVATIONS AND HS IMPROVEMENTS

SHEET
C-4.0



GENERAL NOTES:

1. THIS PROPERTY IS LOCATED IN FLOOD ZONE X (AREAS DETERMINED TO BE OUTSIDE 0.2% ANNUAL CHANCE FLOODPLAIN). THERE ARE NO FLOODWAYS AND FLOODWAY FRINGES ON THIS PROPERTY, AS TAKEN FROM FEMA FLOOD INSURANCE RATE MAP (FIRM) FOR THE TOWN OF CEDAR LAKE, LAKE COUNTY, INDIANA, MAP NUMBER 18089C0239E, EFFECTIVE DATE JANUARY 18, 2012.

2. HYDROLOGIC UNIT CODES: 07120001130060 LAKE DALECARLIA – CEDAR LAKE

3. STATE OR FEDERAL WATER QUALITY PERMITS ARE NOT REQUIRED FOR THE PROJECT, AN IDEM CONSTRUCTION STORMWATER GENERAL PERMIT (CSGP) IS NOT REQUIRED.

4. AT PRESENT, THE SITE IS A SCHOOL PROPERTY CONSISTING OF AN EXISTING BUILDING WITH SURROUNDING PARKING LOT AND LANDSCAPING INCLUDING GRASSES, BUSHES, AND GRAVEL.

5. THERE IS NO PRESENCE OF HYDRIC SOILS ON THIS PROPERTY.

6. THERE ARE NO EXISTING WETLAND AREAS ON THIS PROPERTY AND DO NOT EXIST ON ADJACENT PROPERTY AS CLASSIFIED BY THE U.S. FISH AND WILDLIFE SERVICE, NATIONAL WETLANDS INVENTORY, AND THE UNITED STATES DEPARTMENT OF THE INTERIOR. THERE ARE NO LAKES OR WATER COURSES ON THIS PROPERTY AND ON ADJACENT PROPERTY. CEDAR LAKE IS THE WATER COURSE WHICH THE STORMWATER FROM THE PROPOSED SITE WILL ULTIMATELY DISCHARGE INTO, AND IT IS LOCATED APPROXIMATELY 0.5 MILES EAST OF THE PROJECT SITE, AND IS CLASSIFIED AS A WATER OF THE U.S., WITH A NWL = 693±.

7. POTENTIAL SOURCE OF STORM WATER DISCHARGE ENTERING THE GROUNDWATER FROM THIS DEVELOPMENT WILL BE THROUGH NATURAL GROUND ABSORPTION ONLY. THERE ARE NO ABANDONED WELLS OR SINKHOLES ON THE PROPERTY.

8. THERE ARE NO SENSITIVE AREAS ASSOCIATED WITH THIS PROPERTY.

9. THERE ARE NO REGULATED DRAINS WITHIN THIS PROPERTY, OR ON ADJACENT PROPERTIES. THERE IS NO RECORD OR KNOWLEDGE OF EXISTING FARM DRAINS OR FIELD TILE, INLETS AND OUTFALLS LOCATED WITHIN THE EXISTING PROPERTY LIMITS.

10. SOIL STOCKPILES, BORROW AND DISPOSAL AREAS ARE NOT EXPECTED FOR THIS PROJECT. SOIL STOCKPILES SHALL BE SURROUNDED WITH SILT FENCING AT ALL TIMES TO PREVENT EXCESSIVE EROSION, AND IF LEFT UNDISTURBED FOR A PERIOD OF MORE THAN 7 DAYS, IT SHALL BE STABILIZED WITHIN 14 DAYS. UPON SITE COMPLETION THE TOPSOIL STOCKPILE SHALL BE RESPREAD, GRADED, AND PERMANENTLY SEEDED.

11. AREAS WHERE THE PROPOSED SIDEWALK AND CANOPY ARE LOCATED WILL BE DISTURBED DURING CONSTRUCTION. IN ALL OTHER AREAS, EXISTING VEGETATIVE COVER WILL BE PRESERVED.

12. FUEL STORAGE AREA IF REQUIRED SHALL BE WITHIN THE CONSTRUCTION STAGING AREA, FUEL SHALL BE STORED IN APPROVED MOBILE REFUELING TANK LOCATED AWAY FROM DRAINAGE STRUCTURES AND CHANNELS. FIRE EXTINGUISHERS SHALL BE LOCATED NEAR FUEL STORAGE AREA AND BE OF SUITABLE TYPE, POSTED, AND BE MAINTAINED IN GOOD CONDITION.

13. TEMPORARY SEED ALL AREAS OF BARE SOIL (WITH THE ADDITION OF A BLANKET WHERE SLOPES ARE 4:1 OR GREATER) THAT WILL REMAIN UNDISTURBED FOR A PERIOD OF MORE THAN 14 DAYS. SEEDING: OPTIMUM SEEDING DATED ARE MARCH 1 – MAY 10 AND AUGUST 10 – SEPTEMBER 30. SEEDING DATES BETWEEN MAY 10 AND AUGUST 10, MAY NEED TO BE IRRIGATED. FOR SEEDING RECOMMENDATIONS SEE PRACTICE 3.12, INDIANA STORM WATER QUALITY MANUAL.

14. ALL SOIL STOCKPILES, AREAS THAT ARE DISTURBED DURING CONSTRUCTION, AND DRAINAGE SWALES WHICH ARE SCHEDULED OR LIKELY TO BE LEFT INACTIVE FOR SEVEN (7) CALENDAR DAYS OR MORE MUST BE STABILIZED WITHIN 14 DAYS. TEMPORARILY OR PERMANENTLY SEEDED WITH MEASURES APPROPRIATE FOR THE SEASON.

15. LOCATION OF ON-SITE POSTING, OF THE LOCAL STORMWATER PERMIT AND LOCATION OF THE COMPLETE SET OF ENGINEERING PLANS, SHALL BE AVAILABLE AT THE ENTRANCE TO THE SITE AND VISIBLE TO THE PUBLIC.

16. ALL APPLICABLE MATERIAL SAFETY DATA SHEETS (MSDS) SHOULD BE INCLUDED ON-SITE FOR MATERIALS EXPECTED POLLUTANTS OF CONCERN FOR THE PROJECT SITE.

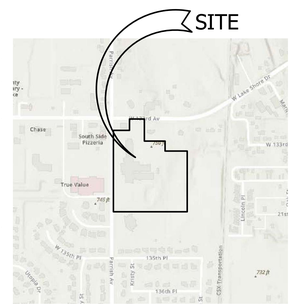
17. DURING CONSTRUCTION WHERE CONCENTRATED RUNOFF MAY OCCUR AND SILT FENCE IS NOT SUFFICIENT TO PROVIDE CONTROL OF SEDIMENT, ADDITIONAL MEASURES OF PROTECTION SHALL BE IMPLEMENTED (FILTER SOCKS). THE SILT FENCE BOUNDARY SHALL BE MONITORED DURING CONSTRUCTION TO EVALUATE IF THE SEDIMENT CONTROL MEASURE IS APPROPRIATE AND FUNCTIONING CORRECTLY.

18. SITE ELEVATIONS ARE BASED ON NAVD 88, AND HORIZONTAL DATUM IS BASED ON INDIANA STATE PLANE COORDINATES NAD 83.

Temporary stabilization plans and sequence of implementation.

a. On site posting of the Town Permit. Location of the posting and plans shall be made available by the owners contractor.
b. Installation of all erosion/sedimentation controls including stabilized construction entrance, silt fences, etc. per the engineering plans.
c. Clearing and grubbing
d. Rough cut and fill of major grading per the engineering plans shall be done to rough grades at the start of construction to prevent excessive soil erosion due to construction.
e. Implementation of storm sewer inlet protection at each open-grate structure (basket insert inlet protection, as per engineering plans).
f. Construct the concrete washout facility in the location shown in accordance with the detail on Storm Water Pollution Prevention Plan Detail & Specifications sheet.
g. Construct canopy and sidewalks.
h. Upon site completion when no additional disturbance is anticipated stockpile shall be respread, graded, and all disturbed areas shall be permanent seeded, mulched, and landscaped.
i. Complete permanent erosion control and restoration of site vegetation. Erosion control measures are to be removed upon permanent vegetative cover being established. Weekly inspections and inspections after a 0.5-inch rainfall event shall be required by owner.

VICINITY MAP
NOT TO SCALE



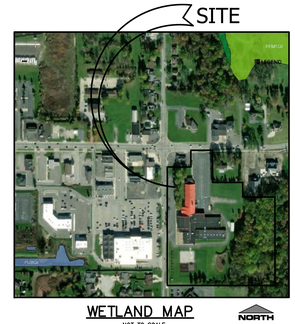
SOIL MAP
NOT TO SCALE

SOIL TYPE LEGEND
El – Elliot Silt Loam, 0 to 2 percent slopes

SWPPP LEGEND:

- TEMPORARY ENTRANCE/EXIT (GRAVEL OR MAT)
- B – BASKET INSERT INLET PROTECTION
- GL – GRADE LIMITS
- SF – SILT FENCE (SEDIMENT FENCE)
- CW – CONCRETE WASH OUT AREA
- P – POSTING CSGP NOI & NOS LETTERS AND LOCAL SWPPP PERMIT
- TS – TEMPORARY SEEDING
- XXX – CONTOUR (PROPOSED)
- XXXX – GRADES (PROPOSED)
- SS – STREET SWEEPING

WETLAND MAP
NOT TO SCALE



NORTH
GRAPHIC SCALE
20 0 10 20 40 80
(IN FEET)
1 inch = 20 ft.

GIBRALTAR DESIGN
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PROJECT 23-140
DATE 09/29/23
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CHECKED BY DCT

DONALD C. TORRENGA REGISTERED No. 19868 STATE OF INDIANA PROFESSIONAL ENGINEER

REVISIONS

MARK	DATE	ISSUED FOR
AD-1	10/24/23	ADDENDUM NO. 1

DRAWING
STORM WATER POLLUTION PREVENTION PLAN

PROJECT
HANOVER CSC - JANE BALL ES RENOVATIONS AND HS IMPROVEMENTS

SHEET
C-5.0

CONCRETE WASHOUT

Purpose: To reduce the discharge of pollutants associated with concrete waste through consolidation of solids and retention of liquids.

Requirements:

1.) Locate concrete washout systems at least 50 feet from any creeks, wetlands, ditches, karst features, or storm drains/manmade conveyance systems.

2.) Locate concrete washout systems in relatively flat areas with established vegetative cover and do not receive runoff from adjacent land areas.

3.) Locate in areas that provide easy access for concrete trucks and other construction equipment.

4.) Locate away from other construction traffic to reduce the potential for damage to the system.

5.) Minimum of ten millimeter polyethylene sheeting that is free of holes, tears, and other defects. The sheeting selected should be of an appropriate size to fit the washout system without seams or overlap of the lining.

6.) Signage.

7.) Orange safety fencing or equivalent.

8.) Straw bales, sandbags (bags should be ultraviolet-stabilized geotextile fabric), soil material, or other appropriate materials that can be used to construct a containment system (above grade systems).

Installation:

1.) Dependent upon the type of system, either excavate the pit or install the containment system.

2.) A base shall be constructed and prepared that is free of rocks and other debris that may cause tears or punctures in the polyethylene lining.

3.) Install the polyethylene lining. For excavated systems, the lining should extend over the entire excavation. The lining for bermed systems should be installed over the pooling area with enough material to extend the lining over the berm or containment system. The lining should be secured with pins, staples, or other fasteners.

4.) Place flags, safety fencing, or equivalent to provide a barrier to construction equipment and other traffic.

5.) Place a non-collapsing, non-water holding cover over the washout facility prior to a predicted rainfall event to prevent accumulation of water and possible overflow of the system (optional).

6.) Install signage that identifies concrete washout areas.

7.) Post signs directing contractors and suppliers to designated locations.

Maintenance:

1.) Inspect daily and after each storm event.

2.) Inspect the integrity of the overall structure including, where applicable, the containment system.

3.) Inspect the system for leaks, spills, and tracking of soil by equipment.

4.) Inspect the polyethylene lining for failure, including tears and punctures.

5.) Once concrete wastes harden, remove and dispose of the material.

6.) Excess concrete should be removed when the washout system reaches 50 percent of the design capacity. Use of the system should be discontinued until appropriate measures can be initiated to clean the structure. Prefabricated systems should also utilize this criterion, unless the manufacturer has alternate specifications.

7.) Upon removal of the solids, inspect the structure. Repair the structure as needed or construct a new system.

8.) Dispose of all concrete in a legal manner. Reuse the material on site, recycle, or haul the material to an approved construction/demolition landfill site. Recycling of material is encouraged. The waste material can be used for multiple applications including but not limited to roadbeds and building. The availability for recycling should be checked locally.

9.) The plastic liner should be replaced after every cleaning; the removal of material will usually damage the lining.

10.) The concrete washout system should be repaired or enlarged as necessary to maintain capacity for concrete waste.

11.) Concrete washout systems are designed to promote evaporation. However, if the liquids do not evaporate and the system is near capacity it may be necessary to vacuum or remove the liquids and dispose of them in an acceptable method. Disposal may be allowed at the local sanitary sewer authority provided their National Pollutant Discharge Elimination System permits allow for acceptance of this material. Another option would be to utilize a secondary containment system or basin for further dewatering.

12.) Prefabricated units are often pumped and the company supplying the unit provides this service.

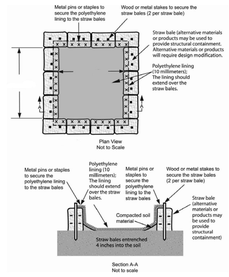
13.) Inspect construction activities on a regular basis to ensure suppliers, contractors, and others are utilizing designated washout areas. If concrete waste is being disposed of improperly, identify the violators and take appropriate action.

14.) When concrete washout systems are no longer required, the concrete washout systems shall be closed. Dispose of all hardened concrete and other materials used to construct the system.

15.) Holes, depressions and other land disturbances associated with the system should be backfilled, graded, and stabilized.

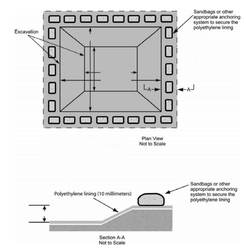
CONCRETE WASHOUT

Concrete Washout (Above Grade System) Worksheet



CONCRETE WASHOUT

Concrete Washout (Below Grade System) Worksheet



FABRIC DROP INLET PROTECTION

Purpose: To capture sediment at the entrance to a storm drain, allowing full use of the storm drain system during the construction period.

Requirements:

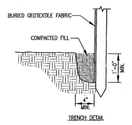
Contributing Area:	1 acre maximum.
Capacity:	Runoff from 2-yr, 24-hr. Storm without bypass flow.
Fabric material:	Geotextile fabric for filtration.
Height of fabric:	1 to 1-1/2 ft., measured from top of inlet.
Approach:	Pool area flat (less than 1% slope) with sediment storage of 945 cu.ft./acre disturbed.
Stability:	Structure must withstand 1-1/2 ft. head of water and sediment without collapsing or undercutting.
Support posts:	Steel fence post or 2 x 2 in. or 2 x 4 in. hard wood post, 3 ft. min. length, 3 ft. max. spacing; top of frame support recommended. Cross bracing tops of posts to opposite corners greatly strengthens support.

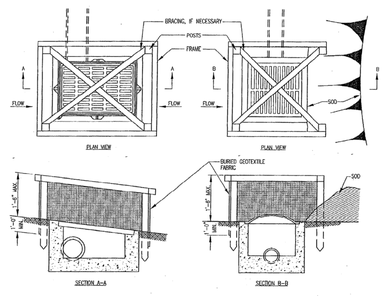
Installation:

1. To prevent runoff from bypassing the inlet, set top of the fabric at least 6" below the downslope ground elevation, or build a temporary dike (compacted to 6" higher than the fabric) on the low side of the inlet. (See Exhibit 3.52-C).
2. Cut the fabric from a single roll to eliminate joints. (Provide at least 2' of overlap if a joint is needed)
3. Bury the bottom of the fabric at least 1 ft. deep, backfill, and compact the backfill (See Exhibit 3.52-B).
4. Space the support posts evenly against the inlet perimeter a maximum of 3 ft. apart, and drive the about 1-1/2 ft. into the ground. (Overflow must fall directly into the inlet and not on unprotected soil.

Maintenance:

1. Inspect the fabric barrier after storm events, and make needed repairs immediately.
2. Remove sediment from the pool area to provide storage for the next storm. Avoid damaging or undercutting the fabric during sediment removal.
3. When the contributing drainage area has been stabilized, remove and properly dispose of all construction material and sediment, grade area to the elevation on the top of the inlet, then stabilize.





STREET AND PARKING LOT SWEEPING

Purpose: To reduce the amount of pollutants that get washed into the storm drain and ultimately transported and deposited in waterbodies.

Application:

1. Sweeping at points of egress where sediment is tracked from project site onto public or private streets and roads.

Limitations:

1. Sweeping may be ineffective if soil is wet or heavy accumulation of mud.
2. May require repeat cleanings.

Maintenance:

1. Inspect potential sediment tracking ingress and egress points locations daily, and after rain events.
2. Visible sediment observed outside the construction limits shall be swept and removed daily.
3. Do not use kick brooms or sweeper attachments. These tend to spread the dirt rather than remove it.
4. If not mixed with debris or trash, consider incorporating the removed sediment back into the project.
5. Be careful not to sweep up any unknown substance or any object that may be potentially hazardous.
6. Adjust brooms frequently; maximize efficiency of sweeping operations.
7. After sweeping is finished, properly dispose of sweeper wastes at an approved dumpsite.

SILT FENCE

Purpose: To retain sediment from small sloping disturbed areas by reducing the velocity of sheet flow.

Requirements:

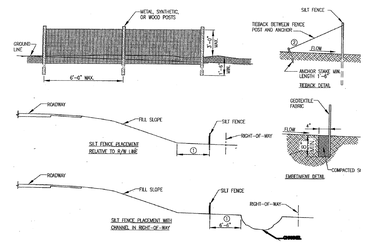
Trench:	8" minimum depth, flat bottom or v-shaped, filled with compacted soil or gravel to bury lower portion of support wire and/or fence fabric.
Support posts:	2" x 2" hardwood posts set at lease 1 foot deep.
Spacing of Posts:	8-foot maximum if fence supported by wire, otherwise 6 foot for extra strength fabric without wire backing.
Fence height:	A 3 feet minimum or high enough so depth of impounded water does not exceed 1.5 feet at any point along fence line.
Support wire : (optional)	14 gauge, 6" mesh wire fence. (needed if using standard-strength fabric
Fence Fabric:	Woven or non-woven Geotextile fabric with specified filtering efficiency and tensile strength and containing UV inhibitors and stabilizers to ensure 6 months minimum life at temperatures 0-120 degrees F.

Installation:

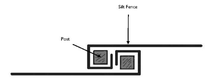
1. Along the entire intended fence line, maintain contour as much as possible, dig an 8" deep flat bottom or v-shaped trench.
2. On the downslope side of the trench, drive the post at least 1 foot into the ground. (Note: If the fence has pre-attached posts or stakes, drive them deep enough so the fabric is satisfactorily in the trench per step 6)
3. Fasten support wire fence to the upslope side of the posts, extending it 8" into trench. (use only if required by manufacturer)
4. Run a continuous length of Geotextile fabric along upslope side of posts.
5. If a joint is necessary, nail the overlap to the nearest post with a wood lath.
6. Place the bottom 1' of fabric in the 8" deep trench, extending the remaining 4" of fabric toward the upslope side.
7. Backfill the trench with compacted earth.

Maintenance:

1. Inspect silt fence periodically and after each storm event.
2. If fence fabric tears, starts to decompose, or becomes ineffective, replace the affected portion.
3. Remove deposited sediment when it reaches half the height of the fence at its lowest point or is causing the fabric to bulge.
4. Take care to avoid undermining the fence during clean out.
5. After watershed has been stabilized, remove fence and sediment deposits, bring the disturbed area to grade and stabilize.



Detailed example of silt fence installation



SILT FENCE WRAP JOINT DETAIL

BASKET INLET / CATCH BASIN PROTECTION

Purpose: To prevent excessive sediment from entering storm sewers at inlet/catch basin, allowing full use of the storm drain system during the construction period.

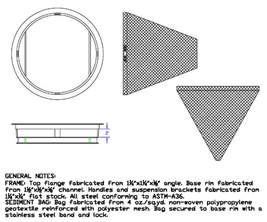
Requirements: Steel Frame with top width-length dimensions such that the basket fits into the inlet and/or catch basin (circular and/or rectangular), and a replaceable Geotextile fabric bag attached with a steel band locking cap that is suspended from the frame, **Catch -all Inlet Protector Hancor Flo-Gard bt Nyloplast** or approved equal.

Installation:

1. Install protection to existing and newly installed inlet/catch basin in a new development before land disturbing activities begin in a stabilized area.
2. Remove the grate, and place the basket assembly under the grate on the lip of the structure frame.
3. Replace the inlet/catch basin grate.

Maintenance:

1. Inspect weekly during construction and after each storm event of a minimum of 1/2 inch rainfall, and remove built-up sediment.
2. Replace bag every six (6) months.
3. Replace the Geotextile fabric bag if there is a hole and/or won't pass water.
4. Replace the Geotextile fabric bag after any oil, gasoline or solvent spill.



TYPICAL INLET/CATCH BASIN PROTECTION
INSERT DETAIL

TEMPORARY SEEDING

Purpose: To stabilize disturbed areas especially along both sides of the streets and courts after final grading work is completed and where additional work is not scheduled.

Requirements:
Site and seedbed preparation: Graded, and lime and fertilizer applied

Seed Selected:
Selected on the basis of quick germination, growth, and time of year, see Table for temporary seeding recommendations.

Fertilize: According to soil test or use 600 lbs/acre 12-12-12 analysis or equivalent.

Mulch: 1.5 - 2 tons/acre straw. Straw must be dry, unchopped and free of undesirable seeds.

Application:

1. Fertilize and lime as recommended by the soil test.
2. Till the soil to obtain a uniform seedbed, working the fertilizer and lime into the soil 2-4" deep with a disk or rake operated across the slope.
3. Apply seed uniformly with a drill or cultipacker-seeder, or by broadcasting, and cover to a depth as shown on Table for temporary seeding recommendations.
4. If drilling or broadcasting, firm the seedbed with a roller or cultipacker.
5. Mulch all seeded areas. (Note: If seeding is done with a hydroseeder, fertilizer and mulch can be applied with the seed in a slurry mixture.)

Maintenance:

1. Inspect periodically after planting to see that vegetative stands are adequately established; re-seed if necessary.
2. Check for erosion damage after storm events and repair; re-seed and mulch if necessary.

Notes:

1. Vegetative Filter Strip: permanent or temporary, shall be done on all disturbed areas along both sides of the streets and courts to reduce erosion where additional work is not scheduled.
2. Permanent Seeding: or sodding shall be done at the time of final landscaping.

Table 1. Temporary Seeding Specifications

Seed Species[1]	Rate per Acre	Planting Depth	Optimum Dates[2]
Wheat or Rye	150 lbs.	1 to 1½ inches	Sept. 15 – Oct. 30
Spring Oats	100 lbs.	1 inch	March 1 – April 15
Annual Ryegrass	40 lbs.	¼ inch	March 1 – May 1 Aug. 1 – Sept. 1
German Millet	40 lbs.	1 to 2 inches	May 1 – June 1
Sudangrass	35 lbs.	1 to 2 inches	May 1 – July 30
Buckwheat	60 lbs.	1 to 2 inches	April 15 – June 1
Corn (broadcast)	300 lbs.	1 to 2 inches	May 11 – Aug. 10
Sorghum	35 lbs.	1 to 2 inches	May 1 – July 15

[1] Perennial species may be used as a temporary cover, especially if the area to be seeded will remain idle for more than one year (see **Permanent Seeding** on page 35).

[2] Seeding done outside the optimum seeding dates increases the chances of seeding failure. Dates may be extended or shortened based on the location of the project site within the state.

TEMPORARY CONSTRUCTION ENTRANCE/EXIT

Purpose: To provide a stable entrance/exit condition from the construction site, and to keep mud and sediment off public roads.

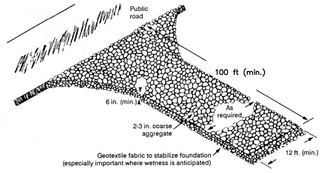
"GRAVEL"
Requirements:
Width: 12 feet minimum or full width of entrance
Length: 100 feet minimum
Material: 2-3 inch diameter washed stone (INDOT CA No. 2), with Geotextile Fabric Underliner.
Thickness: 6 inch minimum

Installation:

1. Remove all vegetation and other objectionable material from the foundation area.
2. Install pipe under the stone if needed to provide proper public road drainage.
3. Install Geotextile fabric on the graded foundation area prior to stone placement.
4. Divert all surface runoff and drainage from the stone to sediment trap.

Maintenance:

1. Inspect entrance pad for sediment deposits weekly and after storm events or heavy use.
2. Reshape pad as needed for drainage and runoff control.
3. Topdress with clean stone as needed.
4. Remove mud and sediment tracked or washed onto public road by brushing or sweeping. No flushing of sediment off the street
5. Repair any broken road pavement immediately.



Plans of a temporary gravel construction entrance/exit pad.

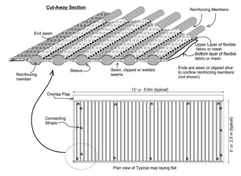
"MAT"
Requirements:
Width: 12 feet minimum or full width of entrance
Length: 100 feet minimum
Material: Geotextile-Type mats, **AGES Mud Mat** or approved equal

Installation:

1. Install pipe under mat if needed to provide proper site drainage.
2. Install Geotextile-Type mat on the graded foundation area.
3. Divert all surface runoff and drainage from the mat to sediment trap.

Maintenance:

1. Inspect entrance mat for sediment deposits weekly and after storm of a minimum of 1/2 inch rainfall events or heavy use.
2. Reshape pad as needed for drainage and runoff control.
3. Repair or replace mats as needed.
4. Remove mud and sediment tracked or washed onto public road by brushing or sweeping. No flushing of sediment off the street.



PLANS OF TEMPORARY CONSTRUCTION INGRESS/EGRESS PAD

DUST CONTROL

Purpose:
To reduce wind-borne soil particles (dust) that may be transported and deposited in waterbodies, create a health hazard, and/or a visibility hazard.

Requirements:

1. Dust control measures may be applied at any construction site, but should always be utilized for sites with dry, unvegetated soils that are exposed to wind or vehicle traffic that can potentially result in the generation of dust.
2. Where practical, locate haul roads and stockpiles away from existing residential housing, businesses, and public areas.
3. Limit construction equipment on haul roads to the extent practical. Construction equipment should maintain low speed of 15 miles per hour or less.
4. Trucks leaving a project site should be covered, especially where conditions may result in blowing of haul material.
5. Minimize areas of disturbed, unvegetated soil exposed to traffic and wind.
6. Water quality impacts should always be considered when selecting a dust control treatment.

Application:

1. Temporary Methods
   - A. Watering/Irrigation
     Typically used for haul roads and heavy traffic areas.
     Used as an emergency treatment measure.
   - B. Dust suppressants that are commercially available. Some products may be toxic to the environment. The level of toxicity and proximity to waterbodies and other unique resource areas should be considered when selecting a product. Products should be strictly applied according to the standards and specifications of the manufacturer and in accordance with applicable local, state, and federal regulations.

Chlorides
- Used for unpaved construction haul roads.
- Applied as a liquid solution or dry granules/flakes.
- Application can inhibit growth.
- Runoff from treated areas can pollute waterbodies.

Resins
- Applied to haul roads, soil stockpiles, unvegetated soils, or used as a tackifier.
- Water sheds off soils treated with these products.
- Low environmental impact after application.
- Avoid introducing resins into waterbodies during application.

Polymer Products
- Used on soil stockpiles, unvegetated soils.
- May also be applicable to haul roads.
- Apply with truck or hydroseeding machine.
- Use restricted to anionic polymer mixtures and shall have less than or equal to .05 percent free acrylamide monomer by weight as established by the U.S. Food and Drug Administration and the U.S. Environmental Protection Agency.

Ligninsulfonates
- Used for haul roads.
- Water soluble and could lose bonding capability in heavy rain.
- Environmentally friendly.

Tillage
- Large open disturbed areas.
- Used as an emergency treatment measure.
- Relatively flat areas of less than two percent.
- Chisel plows with shanks spaced 12 to 18 inches apart, straight-toothed harrows, or similar tillage equipment.
- Best if implemented before soil begins to blow.

Mulch
- Disturbed areas.
- Effective, temporary measure.

Temporary Vegetative Cover
- Disturbed areas.
- Effective, temporary measure.

Physical Barriers
- Emergency treatment measure.
- Solid board fences, snow fences, burlap fences, crate walls, bales of hay, etc.
- Used to control air currents and soil migration.

Street Sweeping
- Paved areas.
- Street sweeper, vacuum truck, or a bucket end loader.

Application:
Prepare site for the application method or product that was selected for dust control.

Maintenance:

1. Inspect daily.
2. Repeat treatments as needed when using temporary dust control methods.
3. Commercial products should be used in accordance with the recommendations of the manufacturer.

SPILL PREVENTION AND RESPONSE

Purpose: Procedures and practices to prevent and control spills in a manner that minimizes or eliminates the discharge of spilled material to the drainage system or watercourses.

Hazardous Waste Products:
- Petroleum Products,
- Asphalt Products,
- Concrete Curing Compounds,
- Pesticides,
- Acids,
- Paints,
- Stains,
- Solvents,
- Wood Preservatives,
- Roofing Tar, or

Other Waste Products:
- Soil stabilizers/binders
- Dust palliatives
- Herbicides
- Growth inhibitors
- Fertilizers
- Deicing/anti-icing chemicals
- Fuels
- Lubricants
- Other petroleum distillates

Any materials deemed a hazardous waste in 40 CFR Parts 110, 117, 261, or 302

Spill Prevention Practices:
The following are management practices used for reduction of spills and other accidental exposure of materials and substances to storm water runoff:

a. The contractors and subcontractors shall refer to the Material Safety Data Sheet (MSDS) for information on the proper storage, use, and clean-up methods for all materials anticipated being on the project site.
b. All required materials for spill clean up and disposal of all onsite materials shall be kept on site in a project trailer with easy access for all users of associated materials.
c. All disposals of spilled materials shall be done in accordance with Federal, State and Local waste disposal regulations. All contractors and subcontractors shall be responsible for any and all spills associated with their work.
d. Prompt cleanup of any spills that may occur of liquid or dry materials.
e. Cleanup of sediments that have been tracked by vehicles or have been transported by wind or storm water about the site or onto nearby roadways.

Response Practices:
In the event that a large spill occurs (that which requires extensive cleanup actions, refer to MSD sheets for information), the following procedures shall be followed to minimize exposure of the material.

a. Immediate action shall be taken to control and contain the spill to prevent it from entering any nearby storm sewer structures or open waters.
b. Notify the Town of Valparaiso Fire Department at 911 for all combustible and flammable materials.
c. Notify: for local contact, the Porter County Emergency Management at Phone: 219-462-8654, and/or Fax: 219-465-3598; the Federal Emergency Spill Hotline at 1-800-424-8802 within 2 hours for spills above the reported allowable quantity, or if the material enters any nearby storm sewer structures or open waters.
d. Notify: for local contact, the Porter County Emergency Management at Phone: 219-462-8654, and/or Fax: 219-465-3598; the Indiana Emergency Response Hotline at 1-888-233-7745.
e. The spill area shall be isolated from all surrounding areas with absorbent pads, booms, and pillows designed for the use of spill containment and absorption.
f. The spill kits that are required to be on site shall be utilized.
g. Emergency Response teams shall be contacted for extensive spills above and beyond the containment by available methods.

Waste Disposal Management Practices:
All solid waste associated with the construction and development of this project shall be removed and disposed of properly with in all applicable state and federal laws associated with the waste generated. Developer and/or contractor are to provide on-site dumpsters, rented from a licensed solid waste management company, to ensure waste is collected and disposed of properly. All trash and construction debris from the site will be deposited in a dumpster. No construction waste will be buried onsite. All personnel will be instructed regarding the correct procedure for waste disposal.

a. Select a designated waste collection area onsite.
b. Provide an adequate number of containers with lids or covers throughout the site, and frequent pickups
c. Provide immediate cleanup of any container spills.
d. Make sure that construction waste is collected, removed, and disposed of only at authorized areas.

GIBRALTAR
DESIGN
ARCHITECTURE • ENGINEERING • INTERIOR DESIGN

PROJECT
HANOVER CSC - JANE BALL ES RENOVATIONS AND HS IMPROVEMENTS
HANOVER COMMUNITY SCHOOL CORPORATION
CEDAR LAKE, INDIANA

TORRENGA ENGINEERING, INC.
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PROJECT 23-140
DATE 10/16/23
COORDINATED BY DCT
DRAWN BY DCT EM
CHECKED BY DCT

DONALD C. TORRENGA REGISTERED No. 19868 STATE OF INDIANA PROFESSIONAL ENGINEER

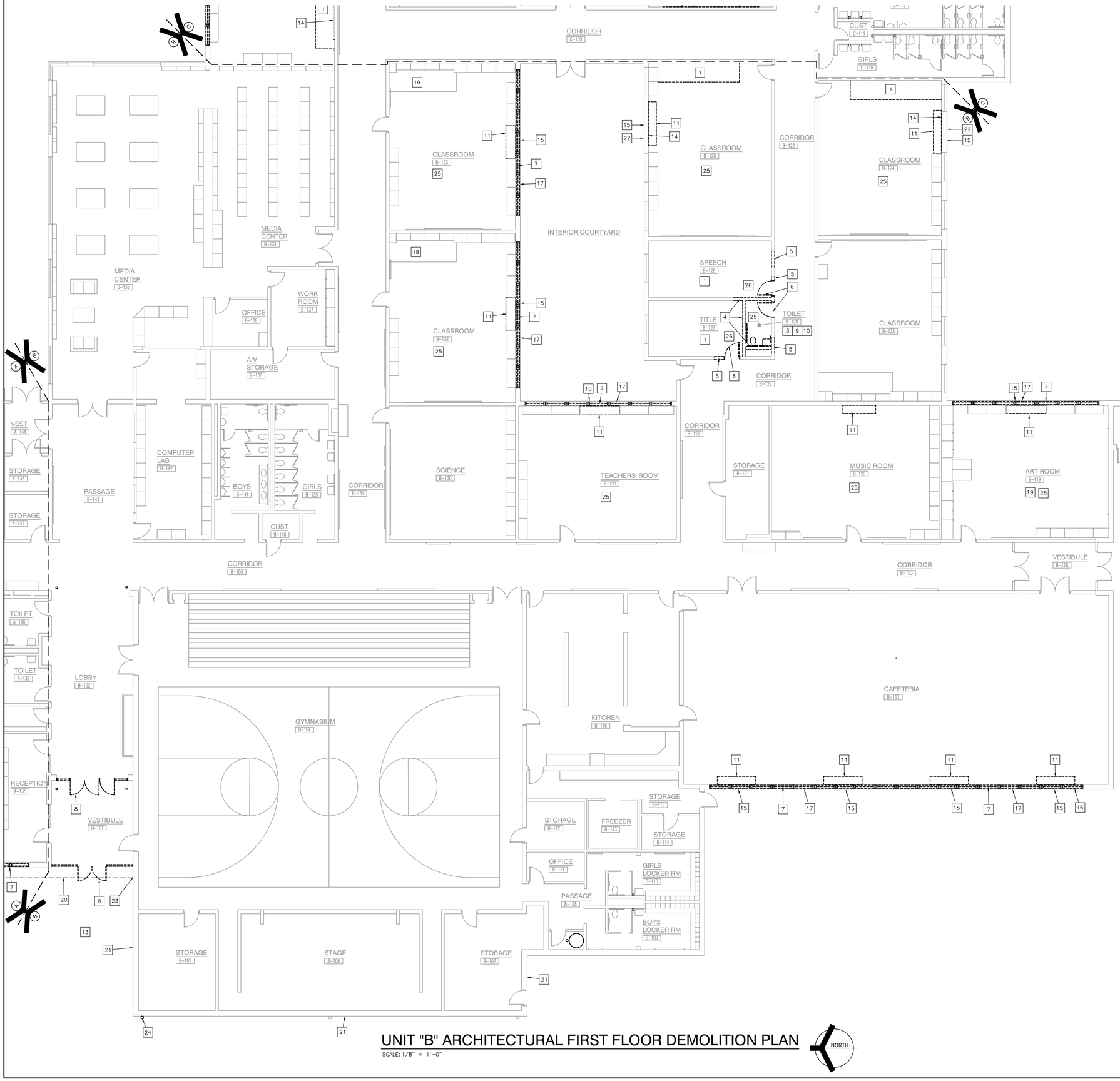
REVISIONS

MARK	DATE	ISSUED FOR
AD-1	10/24/23	ADDENDUM NO. 1

DRAWING
DETAILS & SPECIFICATIONS

PROJECT
HANOVER CSC - JANE BALL ES RENOVATIONS AND HS IMPROVEMENTS

SHEET
C-6.0



UNIT "B" ARCHITECTURAL FIRST FLOOR DEMOLITION PLAN

SCALE: 1/8" = 1'-0"

NORTH

GENERAL DEMOLITION NOTES:

A. FOR GENERAL PROJECT NOTES, MATERIAL INDICATIONS LEGEND, SYMBOL LEGEND, ABBREVIATIONS, ETC., REFER TO GI SERIES SHEETS.

B. UNLESS NOTED OTHERWISE ON THIS SHEET, THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL DEMOLITION AND REMOVAL WORK INDICATED ON THIS SHEET.

C. CONTRACTORS ENCOUNTERING EXISTING MATERIAL WHICH IS SUSPECTED OF CONTAINING ASBESTOS SHALL STOP WORK IMMEDIATELY AND NOTIFY THE OWNER AND THE OWNERS REPRESENTATIVE.

D. BOLD DASHED LINES INDICATE EXISTING ITEMS TO BE REMOVED UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING THE EXTENT OF DEMOLITION WORK PRIOR TO BIDDING AND FOR COORDINATING THE EXTENT OF DEMOLITION WITH THE INSTALLATION OF NEW SYSTEMS.

E. EACH CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEMOLITION APPLICABLE TO THEIR SCOPE OF WORK AND AS REQUIRED FOR INSTALLATION OF NEW WORK WHETHER OR NOT IT IS SPECIFICALLY INDICATED OR NOTED IN THESE DOCUMENTS.

F. REMOVE ALL ITEMS AND FINISHES MADE OBSOLETE BY NEW CONSTRUCTION. VERIFY ITEMS DEEMED OBSOLETE WITH ARCHITECT PRIOR TO REMOVAL. REFER TO NEW CONSTRUCTION DRAWINGS FOR DEMOLITION REQUIRED NOT SHOWN ON DEMOLITION PLANS.

G. EACH CONTRACTOR SHALL BE RESPONSIBLE FOR OFF SITE REMOVAL OF ALL DEMOLITION MATERIALS AND/OR ITEMS UNLESS NOTED OTHERWISE OR DIRECTED BY THE OWNER.

H. PRIOR TO STARTING DEMOLITION, CONSTRUCT DUST CONTROL BARRIERS AS REQUIRED TO PREVENT THE SPREAD OF DUST INTO SURROUNDING AREAS (WHERE APPLICABLE).

I. WHERE BUILDING EGRESS IS REQUIRED TO PASS THROUGH DEMOLITION AREAS, PROVIDE APPROVED BARRIERS, ETC. TO ENSURE SAFETY OF THE PUBLIC.

J. RELOCATED ITEMS SHALL BE CLEANED AND PLACED IN STORAGE, PER OWNERS' DIRECTION, UNTIL ITEMS ARE READY TO BE INSTALLED. IF ITEMS ARE DAMAGED DURING DEMOLITION OR RELOCATION, THEY SHALL BE REPAIRED OR REPLACED WITH NEW ITEMS AS APPROVED.

K. DEMOLITION SHALL BE PERFORMED WITHOUT DAMAGE TO EXISTING CONSTRUCTION TO REMAIN. WHERE SUCH DAMAGE OCCURS, PATCH, REPAIR, OR RESTORE WALLS, FLOORS, CEILING, ETC. NEATLY TO MATCH EXISTING ADJACENT SURFACE. PROVIDE SHORING, BRACING, OR SUPPORT AS REQUIRED TO PREVENT MOVEMENT OR SETTLEMENT OF EXISTING STRUCTURES.

L. EACH CONTRACTOR IS RESPONSIBLE FOR CUTTING, PATCHING, AND DISCONNECTION OF ITEMS APPLICABLE TO THEIR SCOPE OF WORK. WHERE EXISTING SERVICES ARE ABANDONED, CAP AT LEAST 1" BEHIND NEW FINISHES AND/OR EXISTING SURFACE AND PATCH AS REQUIRED TO RECEIVE NEW FINISHES OR MATCH EXISTING FINISH.

M. ON WALLS THAT ARE TO RECEIVE NEW FINISHES, REMOVE AND REINSTALL EXISTING EQUIPMENT TO REMAIN AS REQUIRED FOR INSTALLATION OF NEW FINISHES.

N. WHERE WALLS OR BULKHEADS ARE REMOVED, PATCH FLOORS, CEILINGS, AND ADJACENT WALLS AS REQUIRED TO MATCH EXISTING OR RECEIVE NEW FINISHES WHERE APPLICABLE. WHERE EXISTING DUCTWORK, PIPING, OR EQUIPMENT IS REMOVED, PATCH OPENINGS AND/OR SURFACES AS REQUIRED TO MATCH ADJACENT SURFACES OR RECEIVE NEW FINISHES WHERE APPLICABLE. REFER TO ALL DEMOLITION DRAWINGS FOR EXTENT OF ITEMS TO REMOVED.

O. OVER CUT NEW OPENINGS IN EXISTING WALL AS REQUIRED FOR NEW CONSTRUCTION. PATCH AND REPAIR WALLS AS REQUIRED TO MATCH EXISTING. WHERE APPLICABLE, TOOTH NEW MASONRY INTO EXISTING MASONRY.

P. ALL EQUIPMENT AND FURNITURE WHICH ARE CONSIDERED LOOSE FURNISHING SHALL BE REMOVED BY THE OWNER PRIOR TO DEMOLITION.

Q. MASONRY WALLS TO BE REMOVED SHALL BE REMOVED TO A POINT 2" MINIMUM BELOW THE EXISTING FLOOR SLAB UNLESS SETTING ON A SLAB OR SPECIFICALLY NOTED OTHERWISE. PATCH WITH NEW CONCRETE TO BE FLUSH WITH THE EXISTING FLOOR SLAB.

R. EACH CONTRACTOR SHALL BE RESPONSIBLE FOR GENERAL REVIEW OF DEMOLITION NOTES AND GENERAL DEMOLITION NOTES AS THEY APPLY TO THEIR SCOPE OF WORK.

S. THE OWNER SHALL RESERVE THE RIGHT TO CLAIM ANY MATERIALS THAT ARE BEING DEMOLISHED PRIOR TO THE CONTRACTOR DISPOSING OF THEM OFF SITE.

T. REFER TO THE STRUCTURAL, MECHANICAL, PLUMBING, ELECTRICAL AND TECHNOLOGY DOCUMENTS FOR COMPLETE SCOPE OF DEMOLITION WORK.

U. "FLOORING" DENOTES FLOOR COVERING MATERIALS INCLUDING BACKING, ADHESIVES, AND BASES DOWN TO BUT EXCLUSIVE OF FLOOR SLABS AND STRUCTURAL MATERIALS UNLESS NOTED OTHERWISE.

V. DEMOLITION IS TO FOLLOW ESTABLISHED CONSTRUCTION SEQUENCE. REFER TO SPECIFICATIONS AND DRAWINGS FOR REQUIREMENTS AND SPECIAL CONDITIONS.

W. WHERE APPLICABLE SALVAGE EXISTING MASONRY (FACE BRICK, GLAZED CMU, FACING TILE) AS REQUIRED FOR PATCHING AND INFILL IN RENOVATED AREAS WHERE INDICATED. DISCARD UNUSED PORTION OFF SITE.

DEMOLITION PLAN NOTES:

(ALL PLAN NOTES MAY NOT BE INDICATED ON THIS SHEET.)

1. REMOVE CARPET FLOORING SYSTEM IN ITS ENTIRETY. PREPARE FLOOR FOR NEW FINISHES.
2. REMOVE VCT/SHEET VINYL FLOORING SYSTEM IN ITS ENTIRETY. PREPARE FLOOR FOR NEW FINISHES.
3. REMOVE ROLLED RUBBER FLOORING SYSTEM IN ITS ENTIRETY. PREPARE FLOOR FOR NEW FINISHES.
4. REMOVE MASONRY WALL (AS REQUIRED FOR NEW CONSTRUCTION.) PATCH AND REPAIR FLOOR AND WALL AS REQUIRED TO ACCEPT NEW FINISHES.
5. REMOVE PORTION OF MASONRY WALL AS REQUIRED TO INSTALL NEW DOOR.
6. REMOVE WOOD DOOR, HOLLOW METAL FRAME AND HARDWARE IN THER ENTIRETY. SALVAGE DOOR AND HARDWARE FOR REUSE. REFER TO NEW AND DOOR SCHEDULE FOR NEW LOCATION.
7. REMOVE WINDOW SYSTEM IN ITS ENTIRETY. AD-1
8. REMOVE ALUMINUM STOREFRONT FRAMING, DOORS, AND HARDWARE IN ITS ENTIRETY, REFER TO ELECTRICAL.
9. REMOVE PLUMBING FIXTURES IN THEIR ENTIRETY. CUT AND CAP LINE BELOW WALL OR FLOOR SURFACE. UNLESS OTHERWISE NOTED ON PLUMBING DRAWINGS PATCH AND REPAIR FLOOR AND/OR WALL AS REQUIRED TO ACCEPT NEW FINISHES.
10. REMOVE TOILET ACCESSORIES AND TURN OVER TO THE OWNER.
11. REMOVE MECHANICAL UNIT. PATCH AND REPAIR WALL AND FLOOR TO RECEIVE NEW FINISHES. REFER TO MECHANICAL DRAWINGS.
12. REMOVE PORTION OF STAIR AS REQUIRED FOR NEW RAMP, PATCH AND REPAIR EXISTING STAIR TO REMAIN AS REQUIRED TO MAKE LIKE NEW, REFER TO CIVIL.
13. REMOVE EXISTING CONCRETE SIDEWALK AND PREPARE FOR NEW CONCRETE SIDEWALK SAME LOCATION, REFER TO CIVIL.
14. REMOVE DISPLAY WALL, CHALK, MARKER, AND/OR TACKBOARD IN IT'S ENTIRETY. PATCH AND REPAIR AS REQUIRED TO RECEIVE NEW FINISHES.
15. REMOVE EXISTING LOUVER IN ITS ENTIRETY, REFER TO MECHANICAL.
16. REMOVE DAMAGED LIMESTONE SILL SECTION AND PREPARE AS REQUIRED FOR NEW SILL.
17. REMOVE SEALANT AROUND EXISTING LIMESTONE AND PREPARE AS REQUIRED FOR NEW SEALANT
18. REMOVE AND SALVAGE PROJECTOR AND SMARTBOARD AND ALL RELATED EQUIPMENT, REFER TO EQUIPMENT AND ELECTRICAL DRAWINGS.
19. REMOVE ALL RED VCT TILES AND PREPARE FLOOR FOR NEW TILES TO REPLACE RED TILES.
20. REMOVE EXISTING FASCIA AND GUTTER AS REQUIRED TO CONSTRUT NEW CANOPY.
21. REMOVE EXISTING EIFS SYSTEM REFER TO SECTIONS AND ELEVATIONS.
22. REMOVE PORTION OF MASONRY WALL AS REQUIRED FOR NEW LOUVER, SALVAGE BRICK FOR REUSE.
23. REMOVE AND SALVAGE ALUMINUM LETTERS FOR REUSE, REFER TO ELEVATIONS FOR NEW LOCATION.
24. REMOVE AND SALVAGE DOWNSPOUT AND BOOT, PATCH AND REPAIR CONCRETE, REFER TO PLANS AND ELEVATIONS FOR NEW LOCATION.
25. REMOVE AND REINSTALL EXISTING ACT AS REQUIRED FOR NEW MECHANICAL DUCT INSTALLATION, REFER TO MECHANICAL.
26. REMOVE EXISTING ACT AND GRID SYSTEM IN ITS ENTIRETY.
27. MODIFY EXISTING ACT AND GRID SYSTEM AS REQUIRED FOR NEW CONSTRUCTION.

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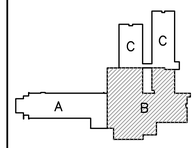
PROJECT

HANOVER CSC - JANE BALL ES RENOVATIONS AND HS IMPROVEMENTS

HANOVER COMMUNITY SCHOOL CORPORATION
CEDAR LAKE, INDIANA



KEY PLAN

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PROJECT 23-140
DATE 10/13/23
COORDINATED BY DTB
DRAWN BY DTB
CHECKED BY DTB DJW

JOSEPH P. BRIGGS REGISTERED NO. 11600109 STATE OF INDIANA ARCHITECT

REVISIONS

MARK	DATE	ISSUED FOR
AD-1	10/24/23	ADDENDUM NO.1

DRAWING

UNIT "B" ARCHITECTURAL FIRST FLOOR DEMOLITION PLAN

PROJECT

HANOVER CSC - JANE BALL ES RENOVATIONS AND HS IMPROVEMENTS

SHEET

JB AD102

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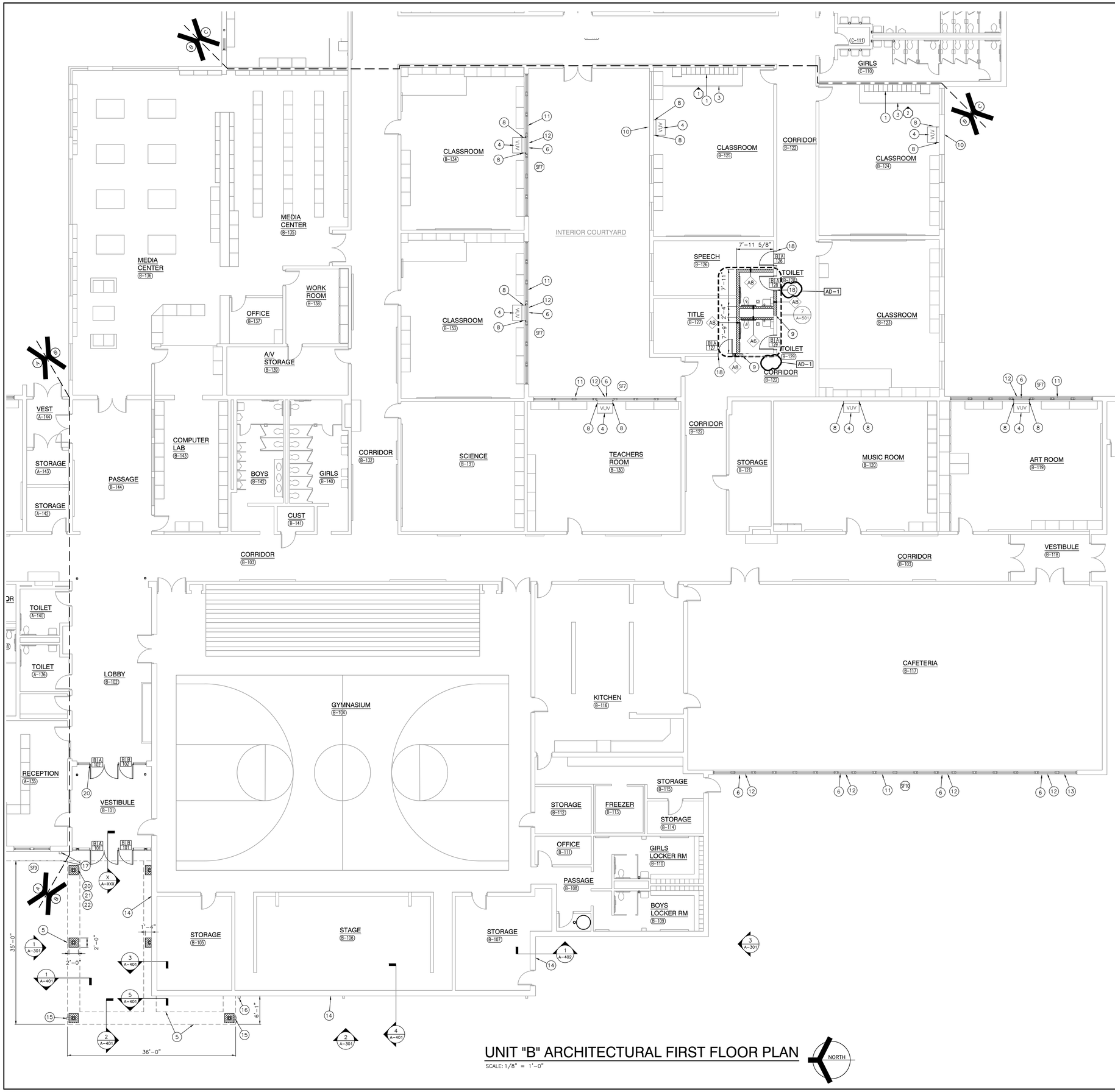

UNIT "B" ARCHITECTURAL FIRST FLOOR PLAN

SCALE: 1/8" = 1'-0"

NORTH

GENERAL PLAN NOTES:

A. FOR GENERAL PROJECT NOTES, MATERIAL INDICATIONS LEGEND, SYMBOL LEGEND, ABBREVIATIONS, ETC., REFER TO GI SERIES SHEETS.

B. PLAN DIMENSIONS TO MASONRY WALLS ARE TO FACE OF ROUGH MASONRY. PLAN DIMENSIONS TO STUD WALLS ARE TO FACE OF FINISHED GYPSUM BOARD OR PLASTER. PLAN DIMENSIONS TO STUD WALLS WITH CERAMIC TILE FINISH ARE TO THE FACE OF TILE BACKER BOARD.

C. ALL CMU WALLS THAT DO NOT LAY OUT IN FULL OR HALF LENGTHS SHOULD BE BALANCED SO AS NOT TO HAVE ANY PIECES LESS THAN 4" IN SIZE EXPOSED TO VIEW.

D. MASONRY WALLS BEARING ON A THICKENED SLAB AT SLAB DEPRESSIONS REQUIRE CUT MASONRY UNITS SO THAT COURSING BEGINS AT THE FLOOR LINE.

E. THE BASE FIRST FLOOR ELEVATION INDICATED FOR THE PROJECT IS 100'-0". REFER TO SITE PLAN FOR CORRELATION TO USGS DATUM.

F. HINGE SIDE OF DOOR JAMB AT CMU WALLS SHALL BE LOCATED 8" MINIMUM FROM ADJACENT WALL AND HINGE SIDE OF DOOR JAMB AT GYPSUM BOARD WALLS SHALL BE LOCATED 4" MINIMUM FROM ADJACENT WALL UNLESS NOTED OTHERWISE.

G. PROVIDE WOOD BLOCKING (OR METAL STRAPPING WHERE APPLICABLE) AS REQUIRED WITHIN METAL STUD WALLS FOR WALL MOUNTED ITEMS.

H. REFER TO LIFE SAFETY PLANS REGARDING FIRE RATED WALL LOCATIONS AND OTHER CODE INFORMATION.

I. INTERIOR CMU WALLS ARE TO BE RUNNING BOND UNLESS NOTED OTHERWISE.

J. WHERE NEW CMU WALLS INTERSECT EXISTING CMU WALLS AT A CORNER OR ARE ALIGNED WITH EXISTING CMU WALLS, TOOTH NEW CMU INTO EXISTING CMU UNLESS NOTED OTHERWISE.

K. REFER TO FINISH PLANS FOR LOCATION AND EXTENT OF FINISHED FLOOR AND WALL MATERIAL.

L. ALL EXPOSED CONCRETE MASONRY UNITS (CMU) CORNERS ARE TO BE BULLNOSED, EXCEPT AT MASONRY BULKHEADS AND EXTERIOR WINDOW JAMBS.

M. REFER TO DEMOLITION SHEETS FOR ADDITIONAL PATCHING AND REPAIR WORK.

PLAN LEGEND:

INDICATES STOREFRONT, CURTAIN WALL, OR WINDOW SYSTEM. REFER TO A-600 SERIES DRAWINGS FOR ELEVATIONS AND DETAILS.

INDICATES WALL TYPES REFER TO G-201 FOR WALL THICKNESS, HEIGHT, AND COMPOSITION.

INDICATES CASEWORK ELEVATION SYMBOL – REFER TO A-501 SERIES DRAWINGS FOR ELEVATIONS AND DETAILS.

PLAN NOTES:

(ALL PLAN NOTES MAY NOT BE INDICATED ON THIS SHEET.)

1. CASEWORK AND/OR MILLWORK, REFER TO EQUIPMENT PLANS.
2. NEW CONCRETE RAMP, REFER TO CIVIL.
3. FLOOR FINISH TRANSITION, REFER TO FINISH PLANS.
4. UNIT VENTILATOR, REFER TO MECHANICAL DRAWINGS.
5. LINE OF NEW CANOPY, REFER TO SECTIONS.
6. INFILL EXISTING LOUVER OPENING BY TOOTHING IN NEW CMU AND BRICK VENEER MATCHING EXISTING IN SIZE, SHAPE, COLOR, AND PROFILE.
7. NEW 1 1/2" O.D. PAINTED ALUMINUM HANDRAIL WITH ALUMINUM BRACKETS AT 35" ABOVE SLOPE OF RAMP AND FLOOR. EXTEND RAIL 12" PAST TOP AND BOTTOM OF RAMP AND RETURN ENDS TO WALL.
8. UNIT VENTILATOR HEAVY GAUGE PAINTED METAL CLOSURE TO MATCH UNIT VENTILATOR. COORDINATE EACH CONDITION IN FIELD WITH WALL, FLOOR AND CEILING CONDITION. (4/A-501)
9. TOOTH IN NEW CMU INTO EXISTING.
10. NEW LOUVER TOOTH IN NEW CMU AND SALVAGED BRICK ARROUND NEW LOUVER WHERE EXISTING LOUVER WAS REMOVED, REFER TO MECHANICAL.
11. NEW BACKER ROD AND SEALANT AROUND STONE SILLS AND CLEAN SILL FOR ENTIRE BAY OF WINDOWS OR ENTIRE LENGTH OF WALL AT ADMIN.
12. RESET SAGGED STONE SILL ABOVE EXISTING LOUVER SO THAT IT IS BACK INLINE WITH ADJACENT SILLS.
13. REPLACE CRACKED SECTION OF STONE SILL WITH NEW MATCHING COLOR AND PROFILE OF EXISTING.
14. CLEAN EXISTING CMU WALL.
15. NEW ALUMINUM DOWNSPOUT AND BOOT CONNECTED INTO STORM SEWER. ADJUST GUTTER TO WORK WITH NEW DOWNSPOUT LOCAITION, REFER TO CIVIL.
16. RELOCATE EXISTING ALUMINUM DOWNSPOUT AND BOOT AND CONNECT INTO STORM SEWER, REFER TO CIVIL.
17. EXISTING GUTTER AND DOWNSPOUT. MODIFY AS REQUIRED TO CONNECT NEW CANOPY GUTTER SYSTEM AND MAINTAIN POSITIVE DRAINAGE.
18. SALVAGED WOOD DOOR AND HARDWARE WITH NEW HOLLOW METAL FRAME. (AD-1)
19. RELOCATED SMART BOARD.
20. PUSH PAD FOR ADA OPERATOR, REFER TO ELECTRICAL DRAWINGS.
21. CARD/FOB READER, REFER TO ELECTRICAL DRAWINGS.
22. KNOX BOX

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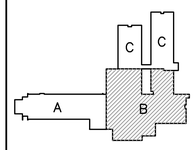
PROJECT

HANOVER CSC - JANE BALL ES RENOVATIONS AND HS IMPROVEMENTS

HANOVER COMMUNITY SCHOOL CORPORATION
CEDAR LAKE, INDIANA



KEY PLAN

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DRAWING
UNIT "B" ARCHITECTURAL FIRST FLOOR PLAN

PROJECT
HANOVER CSC - JANE BALL ES RENOVATIONS AND HS IMPROVEMENTS

SHEET
JB A-102

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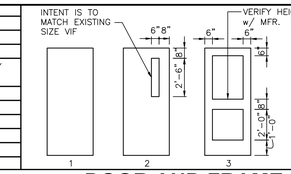
GLASS SCHEDULE	
MK	GLASS TYPES
A	1/4" CLEAR TEMPERED
B	1" INSUL. GLASS
C	1/2" LAMINATED SAFETY GLASS



LOUVER SCHEDULE	
MK	LOUVER SIZE

DOOR AND FRAME SCHEDULE

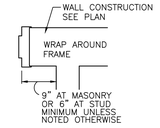
	DOOR					GLASS			FRAME					LABEL	HARDWARE		NOTES
NO.	DESCRIPTION	TYPE	DOOR SIZE (WxH) (INCHES)	MATERIAL	LOU	DOOR	SIDE LGT	TRA	MAT'L	WIDTH	JAMB	HEAD	SILL	ELEV		EXIT DEVICE	CLOSER	
101-A	DOUBLE	3	PR 36 x 84	AL		B	B	B	AL	6"	SEE ELEV	SEE ELEV	SEE ELEV	SF1		YES	YES	1,2,3,4,5,6
101-B	SINGLE	3	36 x 84	AL		B	B	B	AL	6"	SEE ELEV	SEE ELEV	SEE ELEV	SF1		YES	YES	4,6
102-A	DOUBLE	3	PR 36 x 84	AL		C	C	C	AL	4 1/2"	SEE ELEV	SEE ELEV	SEE ELEV	SF1		YES	YES	1,2,5,6
102-B	SINGLE	3	36 x 84	WD		C	C	C	AL	4 1/2"	SEE ELEV	SEE ELEV	SEE ELEV	SF3		YES	YES	6
AD-1																		
126-A	EXISTING SINGLE	2	36 x 84	EXIST WD					HM	8 3/4"	J1	H1		HM1				7
127-A	EXISTING SINGLE	2	36 x 84	EXIST WD					HM	8 3/4"	J1	H1		HM1				8
128-A	EXISTING SINGLE	1	36 x 84	EXIST WD					HM	8 3/4"	J1	H1		HM1				9
129-A	SINGLE	1	36 x 84	WD					HM	8 3/4"	J1	H1		HM1				

GENERAL DOOR NOTES

A. JAMB, HEAD, AND SILL DO NOT SHOW WALL CONSTRUCTION. SEE FLOOR PLAN FOR WALL MATERIALS. REFER TO A800 SERIES DRAWINGS FOR WALL FINISHES.
B. SEAL ALL JAMBS AND HEADS WHERE FRAMES MEET EXPOSED MASONRY AND/OR GYPSUM BOARD.
C. PROVIDE A SCRIBE MOLD AT ALL EXTERIOR DOOR FRAMES AND WHERE NOTED ON DRAWINGS. SCRIBE MOLD TO BE 3/4" X 3/4" METAL AT EXTERIOR OF METAL FRAMES AND AT BOTH SIDES OF ALUMINUM FRAMES. SET SCRIBE MOLDS IN SEALANT.
D. PROVIDE GLAZING AND GLASS STOPS AS REQUIRED.
E. FIELD VERIFY ALL DIMENSIONS AND CONDITIONS, BOTH NEW AND EXISTING.
F. SHIM SPACE IS NOT SHOWN ON DOOR FRAME ELEVATIONS FOR ALUMINUM STOREFRONT. TAKE THESE DIMENSIONS INTO ACCOUNT AND ADJUST DIMENSIONS ACCORDINGLY.
G. FOR DOOR POSITION WITHIN WALL REFER TO FRAME MOUNTING DETAIL 5-A601.
H. FOR ELECTRICAL ROUGH-IN AT DOORS REFER TO DETAIL 3-A601.
I. FOR HOLLOW METAL FRAME ELEVATIONS (HM) REFER TO 1-A601. FOR HOLLOW METAL (HM) FRAME PROFILES REFER TO 2-A601.
J. FOR ALUMINUM STOREFRONT ELEVATIONS (SF) REFER TO 1-A610. FOR STOREFRONT (SF) FRAME PROFILES REFER TO 2-A610.
K. GLASS NOTED IN SIDELIGHT COLUMN FOR STOREFRONT WITH NO DOOR APPLIES TO ALL OPENINGS IN FRAME UNLESS NOTED OTHERWISE.
L. REFER TO FLOOR PLANS FOR LOCATIONS OF NEW AND EXISTING ADA PUSH PADS FOR POWER ASSISTED OPERATORS.
M. WHERE FRAMES INDICATE 2 OF MORE OPENINGS FOR DOORS, EACH SINGLE OR PAIR OF DOORS IS SCHEDULED SEPARATELY AND FRAME INDICATED.

DOOR SCHEDULE NOTES (REMARKS):

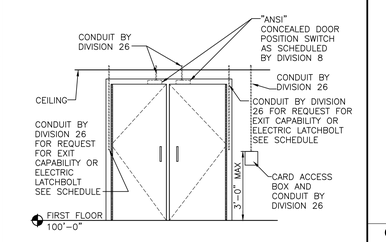
1. PANIC DEVICE TO HAVE ELECTRIC LATCH BOLT. PREPARE FRAME FOR ELECTRIFIED HINGE.
2. DOOR TO BE CONTROLLED BY CARD READER/FOB. REFER TO ELECTRICAL DRAWINGS FOR ROUGH IN.
3. PROVIDE POWER ASSISTED OPERATOR ON ONE LEAF OF DOUBLE DOORS.
4. PROVIDE ALUMINUM THRESHOLD SET IN FULL BED OF MASTIC.
5. KEYED REMOVABLE MULLION.
6. PREPARE DOOR AND FRAME FOR DOOR POSITION SWITCH.
7. DOOR, HARDWARE, AND FRAME SALVAGED FROM SPEECH B-126.
8. DOOR, HARDWARE, AND FRAME SALVAGED FROM TITLE B-127.
9. DOOR, HARDWARE, AND FRAME SALVAGED FROM TOILET B-128.



FRAME MOUNTING DETAILS

SCALE: NTS

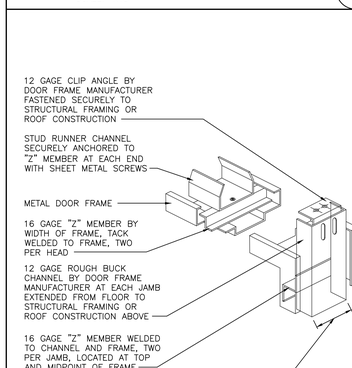
5 A-601



ELECRTICAL ROUGH-IN AT DOOR FRAMES

SCALE: NTS

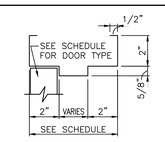
3 A-601



TYPICAL HEAD & JAMB ANCHORAGE

SCALE: NTS

4 A-601



HEAD H1/JAMB J1

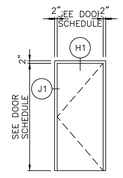
HOLLOW METAL (HM) FRAME PROFILES

SCALE: 3" = 1'-0"

2 A-601

NOTES - HOLLOW METAL (HM)

1. FOR HOLLOW METAL HEAD, JAMB AND SILL DETAILS REFER TO WALL SECTIONS AND HOLLOW METAL (HM) FRAME PROFILES .
2. PROVIDE SEALANT AROUND PERIMETER OF ALL FRAMES.
3. DIMENSIONS SHOWN ARE NOMINAL. FIELD VERIFY ALL DIMENSIONS SHOWN PRIOR TO FABRICATION AND INSTALLATION.
4. JAMB, HEAD, AND SILL DO NOT SHOW WALL CONSTRUCTION. SEE FLOOR PLAN FOR WALL MATERIALS. SEE ROOM FINISH SCHEDULE FOR WALL FINISHES.
5. PROVIDE GLAZING AND GLASS STOPS AS REQUIRED



HM1

HOLLOW METAL FRAME ELEVATIONS (HM)

SCALE: 1/4" = 1'-0"

1 A-601

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DRAWING
DOOR SCHEDULE, FRAME PROFILES, ELEVATIONS, AND DETAILS

PROJECT
HANOVER CSC - JANE BALL ES RENOVATIONS AND HS IMPROVEMENTS

SHEET
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