School City of Hammond
New Middle / High School for Hammond

2017-105.MHS

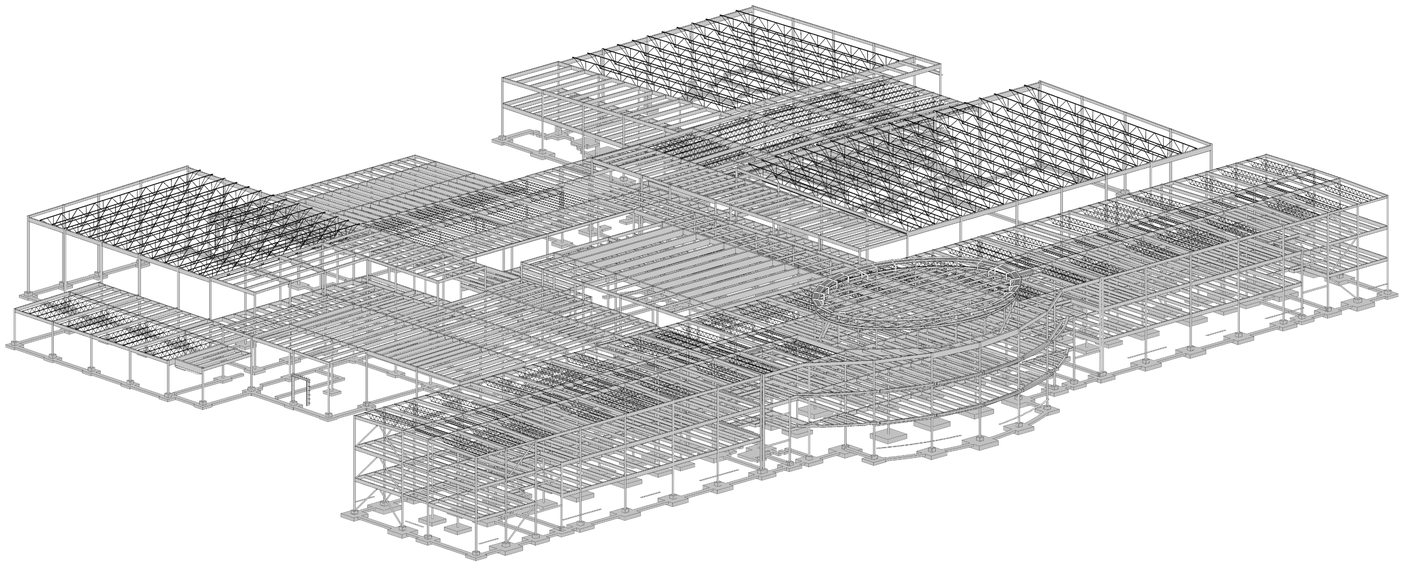
5926 Calumet Ave
Hammond, IN 46320

Bid Package -I -Site Utilities and Structural

School City of Hammond

09.06.2018

2017-105.MHS



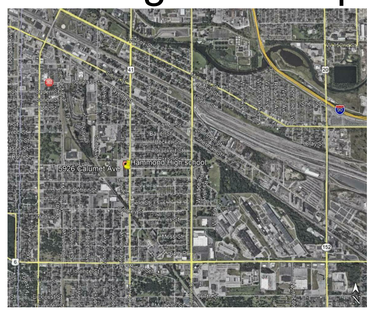
General Notes

Nothing set forth in these Drawings shall release any Contractor from responsibility to provide appropriate quantities, field measurements, dimensional stability, installation, anchorage and coordination with other trades, or waive the Contractor's responsibility to identify and resolve deviations from the requirements of the Contract Documents, or waive the Contractor's responsibility to alert the Architect to errors or omissions contained therein.
Each Contractor shall verify in the field all existing applicable conditions and dimensions shown on the Drawings and as pertinent to the intent of these Drawings. Any discrepancy discovered shall be brought to the attention of the Architect prior to the commencement of any Work affected by, or related to, such discrepancy.
Each Contractor shall be responsible for all costs associated with, or caused by failure to comply with requirement.
Each Contractor shall review in advance all portions of the Work to verify that the Work will not prohibit completion of the Project as intended in these Contract Documents. Any questions shall be promptly referred to the Architect for resolution.

Each Contractor shall refer to the Project Manual for cleaning and disposal requirements.
Each Contractor shall be responsible for the protection of all surfaces and finishes at interior and exterior of building. Damaged surfaces and finishes resulting from the performance of the Work shall be repaired at no cost to the Owner by the responsible Contractor to match existing to the satisfaction of the Owner.
Each Contractor shall coordinate respective cutting and patching Work with the other Prime Contracts.
Each Contractor shall become completely familiar with all aspects of the Work, even those areas designated to be provided by others. This familiarization includes full and complete understanding of the Work described on all Sheets of the Drawings and in all Sections of the Project Manual. Failure by the Contractor to become completely familiar and cognizant of all aspects of the Work shall not relieve the Contractor of the responsibility to provide materials, assemblies, or services indicated in the Contract Documents.

Vicinity Map

Thoroughfare Map



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Project Administration
Construction Management

RTM CONSULTANTS, INC.

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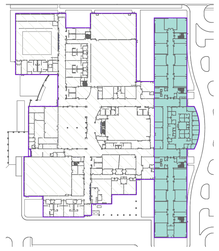
G-000.1

BUILDING SEPARATIONS

BUILDING A

BUILDING B



LIFE SAFETY PLAN LEGEND

Room name
101
AREA: 150 SF
EGRESS Occupancy
Load: ##
# of Exits: #

EGRESS INFORMATION TAG

LOCK BOX

ANNUNCIATOR PANEL

FIRE HOSE CABINET

FIRE EXTINGUISHER (NOT REQUIRED)

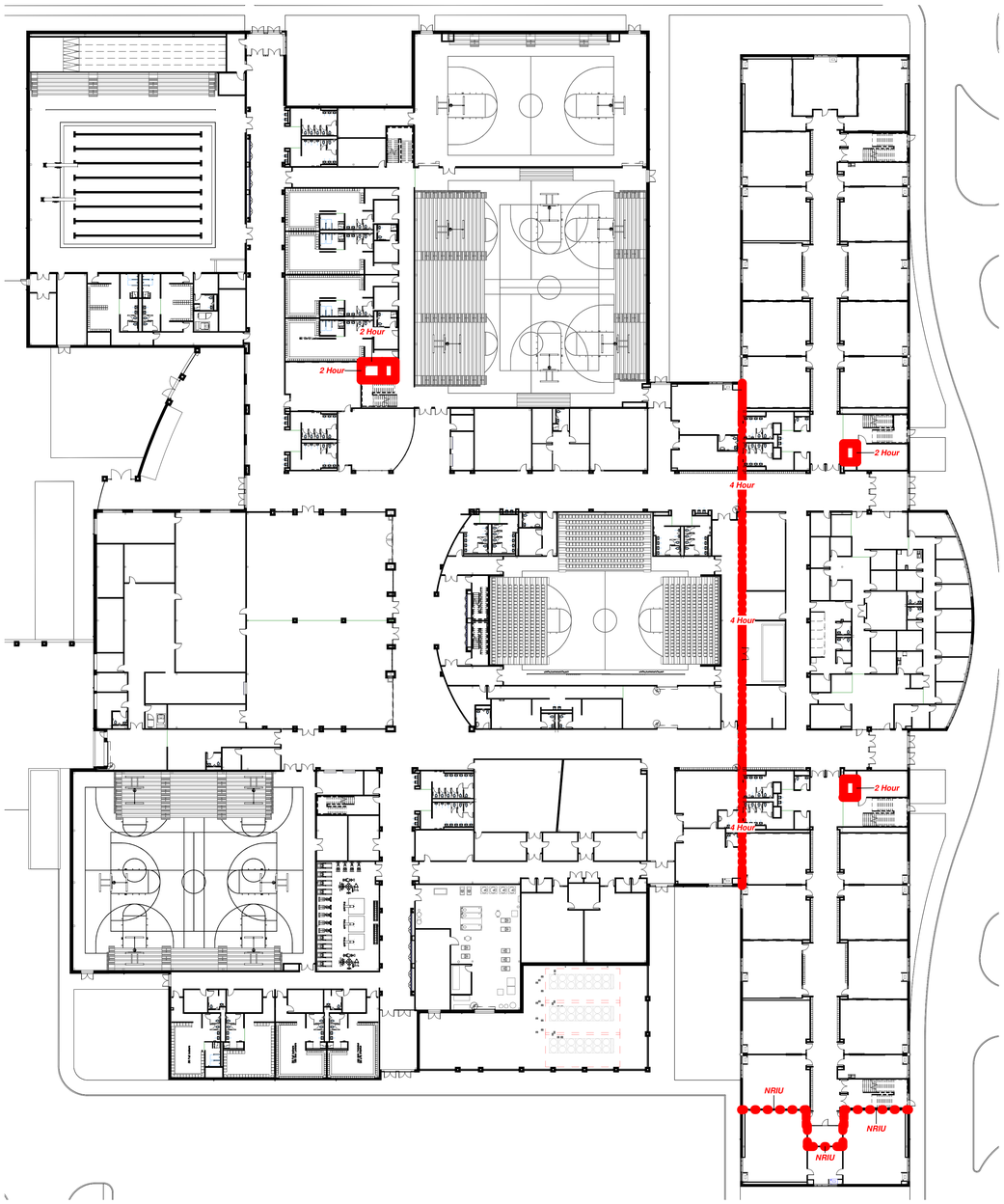
NON-RATED INCIDENTAL-USE WALL [508.2.2.1]

1-HOUR FB RATED WALL

2-HOUR FB RATED WALL

4-HOUR FB RATED WALL

1-HOUR FIRE PARTITION [419, 1017.1]



1C FIRST FLOOR FIRE & LIFE SAFETY PLAN
1" = 30'-0"

CODE SUMMARY

APPLICABLE CODE:	2014 Indiana Building Code 2014 Indiana Mechanical Code (IMC) ICC/ANSI A-117.1 Standard, 2009 Edition
SCOPE OF WORK:	Scope of Project: The project involves construction of a new middle-high school consisting of a 3-story academic building, and a 2-story building with shared arts, theater, sports, cafeteria, and other support functions
OCCUPANCY CLASSIFICATIONS:	Educational use areas for middle and high school students - E Occupancy [305.1] Assembly uses accessory to an E Occupancy are not considered separate occupancies [303.1.3] Office and administrative - less than 10% accessory occupancy and less than tabular area of 23,000 square feet for Type IIB - B Occupancy [304.1, 508.2]
CODE STRATEGY	The building will be divided into two (2) building areas and will be of Type IIB Construction throughout. A 4-hour fire wall will be provided to separated the two (2) building areas, with Building A three stories in height, and Building B two stories in height
VARIANCE REQUEST:	A variance will be required to permit less than 60 feet of frontage for the 2-story building where the 45-ft courtyard adjoins the 2-story and 3-story buildings
CONSTRUCTION TYPE:	Type IIB (noncombustible, unprotected) Construction permitted based upon allowable area for each Building Area
ALLOWABLE AREA BUILDING A:	Tabular: 14,500 sq. ft. [Table 503] Frontage: + 10,875 sq. ft. [506.2] Sprinkler Increase: + 29,000 sq. ft. [506.3] Allowable Area per floor: 54,375 sq. ft. Actual Area: sq. ft. 52,338 sq. ft.
ALLOWABLE AREA BUILDING B:	Unlimited area based upon 2-story height and protection throughout with an automatic sprinkler system Variance will be requested for portion of building perimeter not having 60 feet
ALLOWABLE HEIGHT:	3 stories permitted for Building A [504.2] 2 stories permitted for Building B [507.4]
BUILDING ELEMENTS - FIRE RESISTIVE REQUIREMENTS:	Building elements, including structural frame, floors and roof are permitted to be of noncombustible, unprotected construction. [Table 601] Exterior walls are permitted to be of nonrated, noncombustible construction based upon a fire separation distance of at least 10 feet [Table 602]
FIRE WALLS:	4-hour fire wall provided between Buildings A and B - fire wall is not required to have structural stability based upon the building on each side being protected throughout with a sprinkler system per NFPA 13 [706.2, exc.]
OCCUPANCY SEPARATIONS:	Occupancy separations not required, based upon classification of assembly uses accessory to an educational occupancy as E Occupancy areas [303.1.3] B Occupancy office areas are not required to be separated based upon compliance as accessory occupancy [508.2]
ELEVATOR HOISTWAY AND MACHINE ROOM:	Elevator hoistway and machine room are required to be separated with a 2-hour rating in order to eliminate sprinklers from these spaces. [903.3.3.1.1.1]
FLOOR OPENINGS AND PENETRATIONS, AND SHAFTS:	Interior exit stairway connecting 3 floors is required to be enclosed with 1-hour fire barriers [1022.1] Exit access stairway connecting 3 floors is permitted to be unenclosed based upon providing an 18-inch bulkhead down from the ceiling with a row of closely spaced sprinklers and limiting the floor opening to no more than twice the projected area of the stairway [1009.3, exc. 4] Egress stairs connecting only 2 floors are permitted to be unenclosed [1009.3, exc. 1] Ducts are permitted to connect up to 2 floor levels where floors are nonrated without shaft protection, where the annular space is filled with a noncombustible material [717.6.3] Ducts connecting 3 floor levels are required to be enclosed in a 1-hour shaft, or be provided with a fire damper at each floor level [717.6.3] Noncombustible penetrating items (excluding ducts) are permitted to connect up to 3 floor levels where floors are nonrated without shaft...
INCIDENTAL USE SEPARATION:	Walls for these areas are required to terminate at the deck or a 1-hour ceiling, with self-closing doors - Science rooms if containing any hazardous materials - Boiler and furnace rooms with equipment sized as indicated in Table 509 [Table 509, Sec. 509.4.2] Fire and/or smoke dampers are not required in duct penetrations of these separations
FIRE DAMPERS:	Fire dampers are required at duct penetrations of fire-rated shafts and at duct penetrations of fire barriers required to have more than a 1-hour fire rating [717.5]
OCCUPANT LOAD FACTORS:	Gymnasium: 50 sq. ft/ occ. Cafeteria: 15 sq. ft./occ. Classrooms: 20 sq. ft./occ. Vocational/labs: 50 sq. ft. / occ. Offices: 100 sq. ft./occ. Storage/Mechanical: 300sq. ft./occ.
EXIT ACCESS DOORWAYS:	Two exit access doors are required from rooms or areas with an occupant load of 50 or more or where the common path of travel is exceeds 75 feet. [Table 1015.1, Table 1014.3]
EXIT TRAVEL DISTANCE:	The maximum travel distance to an exterior exit, enclosed stair or horizontal exit is permitted to be a maximum of 250 feet. [Table 1016.1]
CORRIDORS:	Corridors are permitted to be of nonrated construction throughout, based upon sprinkler protection [Table 1018.1]
DOOR SWING:	Exit doors must swing in the direction of egress when serving 50 or more occupants. Exit doors are required to be side - hinged swinging type, except for office or storage areas with an occupant load of less than 10. [1008.1.2]
PANIC HARDWARE:	Panic hardware is required on all means of egress doors serving an occupant load of 50 or more [1008.1.10]
EMERGENCY AND EGRESS LIGHTING:	Exit signs required to indicate the direction of egress travel for rooms and areas that require more than one exit access. [1011.1] Emergency lighting is required in all corridors, rooms, spaces that require more than one means of egress or exit. [1006.3]
MEANS OF EGRESS:	2 means of egress are required from rooms with a calculated occupant load of 50 or more, or where exceeding 75 feet common path of travel in E Occupancy spaces and 100 feet in B Occupancy spaces. [1015.1]
AUTOMATIC SPRINKLERS:	Automatic sprinklers are required throughout based upon E Occupancy fire area exceeding 20,000 sq ft [903.2.2]
STANDPIPES:	Class I standpipes required in Building A, based upon having a floor level located more than 30 feet above the level of fire department vehicle access [905.3.1] The system is permitted to be a manual-wet system, with fire department pumper providing the pressure for the system
FIRE ALARM SYSTEM:	Fire alarm system required [907.2.3] Manual pull stations are not required based upon initiation of the alarm system by sprinkler water flow
SMOKE DETECTORS:	Smoke detectors are required for HVAC shutdown for systems delivering in excess of 2,000 cfm [606.1, IMC]

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SARAH KATHLEEN HUMPFERSTEAD REGISTERED NO. AR10400134 STATE OF INDIANA ARCHITECT

Sarah K Humpfersteed

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#	Revision	Date

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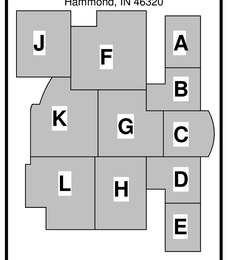


KEY PLAN

School City of Hammond

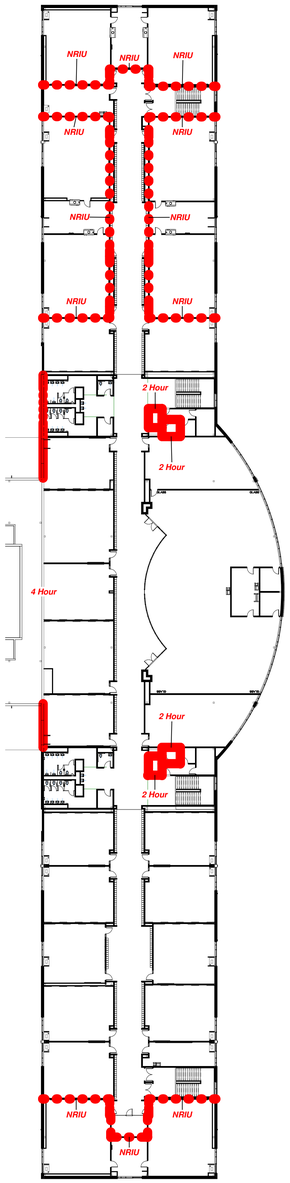
School City of Hammond

New Middle / High School for Hammond

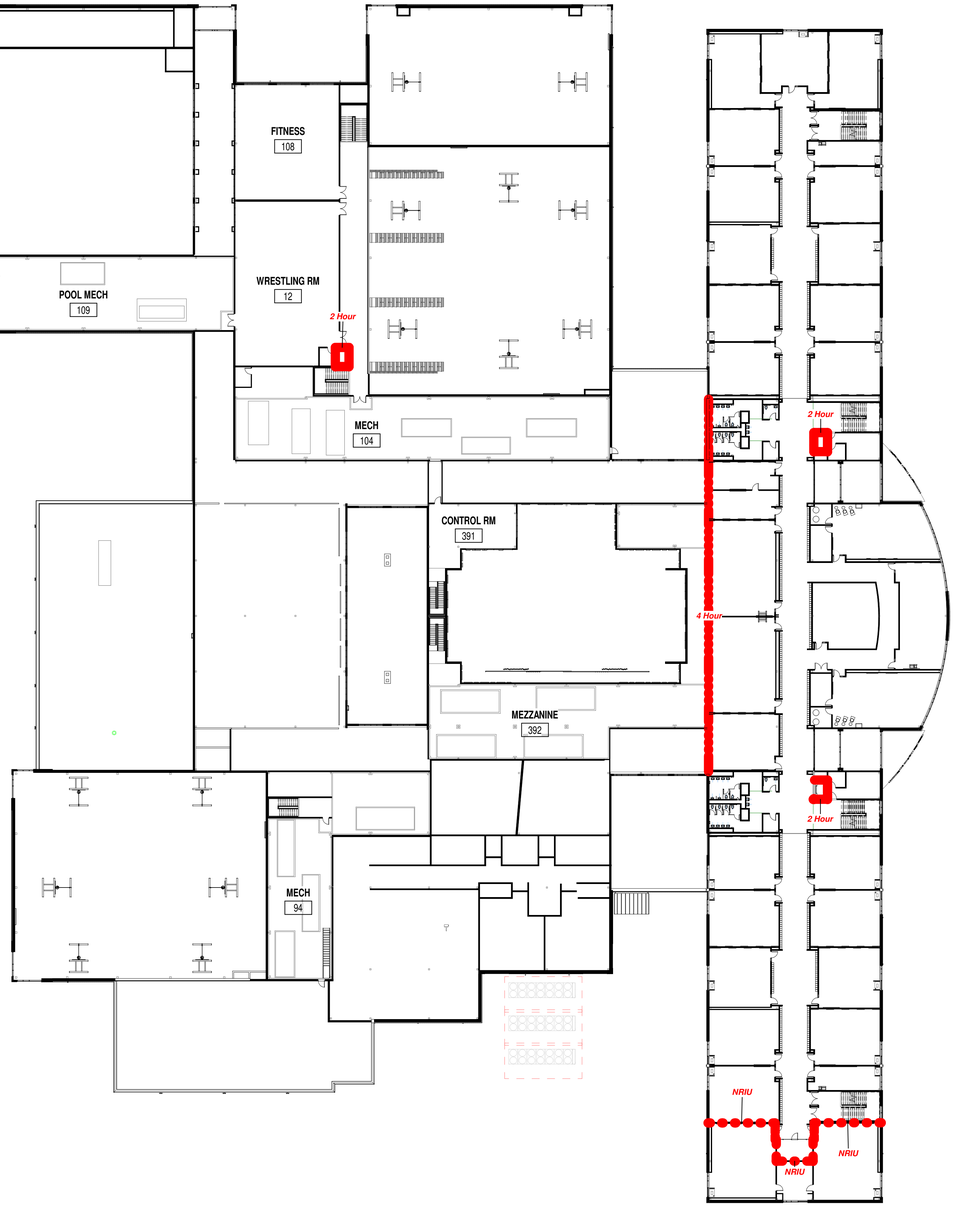
FIRE & LIFE SAFETY PLANS

G-100.1

REFERENCE G-100.1 FOR
CODE SUMMARY



5A THIRD FLOOR FIRE AND LIFE SAFETY PLAN
1" = 30'-0"



1A SECOND FLOOR FIRE AND LIFE SAFETY PLAN
1" = 30'-0"

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Project No. 2017-105.MHS
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SARAH KATHLEEN HEMPSTEAD
REGISTERED
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STATE OF INDIANA
ARCHITECT

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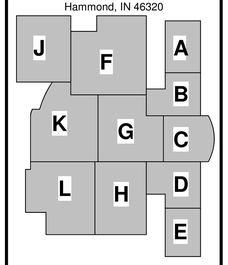

KEY PLAN

School City of Hammond

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New Middle / High School for Hammond

FIRE & LIFE SAFETY PLANS

G-101.1

GENERAL EROSION CONTROL NOTES:

1. ALL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE IN ACCORDANCE WITH THE INDIANA HANDBOOK FOR EROSION CONTROL IN DEVELOPING AREAS, LATEST EDITION, AVAILABLE FROM THE DIVISION OF SOIL CONSERVATION, INDIANA DEPARTMENT OF NATURAL RESOURCES.
2. A COPY OF THIS EROSION AND SEDIMENT CONTROL PLAN AND THE EROSION AND SEDIMENT CONTROL REPORT SHALL BE AVAILABLE AT THE PROJECT SITE THROUGHOUT THE ENTIRE CONSTRUCTION PERIOD.
3. THE CONTRACTOR SHALL CONTROL WASTE, GARBAGE, DEBRIS, WASTEWATER, AND OTHER SUBSTANCES ON THE SITE SO THEY WILL NOT BE TRANSPORTED FROM THE SITE BY THE ACTION OF WIND, STORM WATER RUNOFF, OR OTHER FORCES. PROPER DISPOSAL OR MANAGEMENT OF ALL WASTES AND UNUSED BUILDING MATERIAL APPROPRIATE TO THE NATURE OF THE WASTE OR MATERIAL IS REQUIRED.
4. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO IMMEDIATELY REMOVE ALL MUD, DIRT, STONE, SAND, CONCRETE, AND ANY OTHER MATERIALS TRANSFERRED ONTO ALL SURROUNDING STREETS, DRIVES, LOTS AND SIDEWALKS, AND RESTORE THOSE AREAS TO A CLEAN CONDITION AS DIRECTED BY THE OWNER'S REPRESENTATIVE. IF THE CONTRACTOR DOES COMPLY, THE OWNER SHALL SEEK TO HAVE THE CLEANING PERFORMED BY OTHER SOURCES AND ALL ASSOCIATED COSTS SHALL BE DEDUCTED FROM THE CONTRACTOR'S CONTRACT.
5. PUBLIC OR PRIVATE ROADWAYS SHALL BE KEPT CLEAR OF ACCUMULATED SEDIMENT. ALL SEDIMENT THAT IS CLEARED MUST BE RETURNED TO THE LIKELY POINT OF ORIGIN OR OTHER SUITABLE LOCATION. CLEARING OF LARGE AMOUNTS OF SEDIMENT SHALL NOT INCLUDE FLUSHING THE AREA WITH WATER.
6. THE CONTRACTOR SHALL PROVIDE ALL MEANS REQUIRED TO CONTROL DUST THROUGHOUT THE PROJECT. DUST SHALL NOT BE GENERATED OR ALLOWED AT ANY TIME THROUGHOUT THE PROJECT. IF THE CONTRACTOR DOES COMPLY, THE OWNER SHALL SEEK TO HAVE THE DUST CONTROL MEASURES PERFORMED BY OTHER SOURCES AND ALL ASSOCIATED COSTS SHALL BE DEDUCTED FROM THE CONTRACTOR'S CONTRACT.
7. CONTRACTOR SHALL BE RESPONSIBLE TO SUPPLY ALL WATER AND OTHER MATERIAL FOR DUST CONTROL AND SOIL STABILIZATION OPERATIONS.
8. MINIMIZE THE EXPOSURE OF BARE EARTH BY LIMITING THE WORK AREA TO THAT NECESSARY TO PERFORM THE WORK, AND BY PROPER SCHEDULING OF MANPOWER AND EQUIPMENT.
9. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED, CLEANED, AND MAINTAINED FOLLOWING EACH STORM EVENT.
10. WHEREVER POSSIBLE, MAINTAIN EXISTING VEGETATIVE COVER. USE NON-VEGETATIVE MATERIAL INCLUDING MULCH, EROSION BLANKETS, OR STONE TO CONTROL EROSION FROM DISTURBED AREAS.
11. ALL EROSION AND SEDIMENT CONTROL MEASURES SHOWN SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION. AN INSTALLED PRACTICE SHALL NOT BE REMOVED UNTIL THE AREA OF THE WORK CONTRIBUTING RUNOFF TO THE PRACTICE HAS BEEN COMPLETED AND STABILIZED, OR UNTIL SUFFICIENT ADDITIONAL MEASURES HAVE BEEN INSTALLED TO PROVIDE PROPER PROTECTION TO THE SITE AND SURROUNDING AREA FROM EROSION AND SEDIMENTATION.

4A PROJECT LOCATION
SCALE: 1" = 100'

GENERAL UTILITY NOTES:

1. ALL KNOWN UTILITY LOCATIONS ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION OF THE EXISTING UTILITIES AND REPAIRING ANY DAMAGE DONE TO THE UTILITIES DURING PROBING OR CONSTRUCTION. TO OBTAIN FIELD LOCATIONS OF EXISTING UNDERGROUND UTILITIES, CALL INDIANA UNDERGROUND PLANT PROTECTION SERVICE 1-800-382-5544 OR 811.
2. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES FOR THE RELOCATION OF UTILITIES ON SITE OR CROSSING THE SITE TO SERVICE ADJACENT PROPERTIES. DO NOT INTERRUPT EXISTING UTILITIES SERVING FACILITIES OCCUPIED AND USED BY OWNER OR OTHERS, DURING OCCUPIED HOURS, EXCEPT WHEN PERMITTED.
3. COORDINATE ALL UTILITIES WITH M, E, AND P SERIES DRAWINGS.
4. ALL COSTS INCURRED IN COORDINATION AND CONNECTION OF NEW UTILITY SERVICES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
5. ALL CONNECTIONS TO EXISTING STORM, SANITARY, WATER, GAS, COMMUNICATION, AND ELECTRIC UTILITIES SHALL BE VERIFIED WITH ENGINEER AND COORDINATED WITH RESPECTIVE UTILITY PRIOR TO BEGINNING WORK.
6. A "DANDY BAG" AND FIBER BARRIER SHALL BE PLACED UNDER AND AROUND EACH INLET CASTING DURING THE CONSTRUCTION PERIOD.
7. MAINTAIN 10 FEET (HORIZONTAL) AND 18 INCHES (VERTICAL) SEPARATION BETWEEN WATER MAINS AND STORM/SANITARY SEWERS. THIS MEASUREMENT SHALL BE OUTSIDE TO OUTSIDE OF PIPES.
8. CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL TESTING OF STORM AND SANITARY PIPES AND STRUCTURES PER CITY REQUIREMENTS. ALL COSTS FOR PERMITS AND TESTING TO BE BY CONTRACTOR.
9. CONTRACTOR IS RESPONSIBLE FOR ALL TESTING AND COSTS FOR ADDITIONAL EXCAVATION, IF REQUIRED, TO PROVIDE SUITABLE AND STABLE SUPPORT UNDER ALL PIPE AND STRUCTURES AS DIRECTED BY THE ENGINEER.

GENERAL SITE GRADING AND DRAINAGE NOTES:

1. CONTRACTOR SHALL VERIFY ALL EXISTING GRADES IN FIELD AND REPORT ANY DISCREPANCIES IMMEDIATELY TO THE ARCHITECT/ENGINEER.
2. CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE IN ALL AREAS. PAVING CONTRACTOR SHALL TEST FOR ANY PONDING CONDITIONS AFTER INSTALLATION AND CORRECT ANY DEFICIENCIES. SEE SPECIFICATIONS.
3. SEE SITE GRADING SHEETS FOR EROSION CONTROL TO BE INCORPORATED DURING CONSTRUCTION.
4. CONTRACTOR SHALL COORDINATE ALL EARTH MOVING ACTIVITIES WITH ALL EXISTING AND NEW UTILITIES. VERIFY COVER REQUIREMENTS WITH UTILITY CONTRACTORS AND/OR UTILITY COMPANIES SO NOT TO CAUSE DAMAGE.
5. CONTRACTOR SHALL STABILIZE ALL EARTHEN AREAS DISTURBED DURING CONSTRUCTION. SEE SEASONAL SOIL PROTECTION CHART AND EROSION CONTROL PLAN.
6. CONTRACTOR SHALL STABILIZE ANY STOCKPILED TOPSOIL AGAINST EROSION WITHIN 10 DAYS OF STOCKPILING. SEE SEASONAL SOIL PROTECTION CHART AND EROSION CONTROL PLAN.
7. PROVIDE SMOOTH TRANSITION FROM NEW AREAS TO EXISTING FEATURES AS NECESSARY.
8. THE CONTRACTOR SHALL PREPARE THE FINISH GRADE AT 1/2" BELOW ADJACENT PAVED AREAS. FINISHED GRADES IN PLANTING AREAS SHALL BE 1" LOWER THAN ADJACENT PAVING AND ARE TO INCLUDE 3" MULCHING OVER PLANTING SOIL, SEE SPECS.
9. PRIOR TO FINISH GRADING, CONTRACTORS SHALL MAINTAIN ALL WATER DRAINING OFF SITE CONSISTENT WITH DRAWINGS. NO WATER SHALL BE DIVERTED ONTO ADJOINING PROPERTIES DURING ANY PART OF THE GRADING PROCESS.

ABBREVIATIONS:

Accel.	Acceleration
Add.	Addendum
Adj.	Adjacent
Alt.	Alternate
Approx.	Approximately
Arch.	Architectural
Cal.	Caliper
CIP	Cast in place
C.E.	Civil Engineer
CL	Center line
CMU	Concrete masonry unit
Conc.	Concrete
CJ	Control joint
Decel.	Deceleration
Demo.	Demolition
Det.	Detail
Dia.	Diameter
El.	Elevation
Elec.	Electrical
EQ	Equal distance
Exist.	Existing
Exp.	Expansion
EJ	Expansion joint
FOW	Face of wall
FFE	Finish floor elevation
Ft.	Foot
Ga.	Gauge
Ht.	Height
HDPE	High Density Polyethylene
Horiz.	Horizontal
In/Ln Ft.	Inches per linear foot
I.D.	Inside diameter or dimension
Inv.	Invert
L.A.	Landscape Architect
M.H.	Manhole
Max.	Maximum
Mech.	Mechanical
Med.	Medium
Min.	Minimum
N/A	Not applicable
O.C.	On center
O.D.	Outside diameter
Perp.	Perpendicular
P.O.B.	Point of beginning
PVC	Polyvinyl chloride
R	Radius
Ref.	Reference.
RCP	Reinforced concrete pipe
Reinf.	Reinforcing
Req'd.	Required
ROW	Right or way
San.	Sanitary
Sht.	Sheet
Sim.	Similar
SLCPP	Smooth Lined Corrugated Plastic Pipe
Specs.	Specifications
Sq.	Square
STA	Station point
Storm	Storm sewer
Struct.	Structural
Thk.	Thick
TBS	To be selected
Typ.	Typical
Vert.	Vertical
VF	Verify in field
W.	Width
w/	with
w/o	without
WWF	Woven wire fabric
WWM	Woven wire mesh

SYMBOL LEGEND

3	Demolition note
6	Plan note
A6 / 86	Plant note
3 / C-502	Detail reference
12 / C-402	Section reference
767.30	Proposed spot elevation Note and Mark
768	Proposed contour
TC 765.75 / EP 765.25	Top of curb / Edge of pavement
TC 765.75 / RIM 765.25	Top of curb / Rim
ME	Match existing elevation
	Elevation target
ST-12	Storm structure number
SS-03	Sanitary sewer structure number
N: 4489.33 / E: 5876.22	Coordinate Reference Point

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

GENERAL SITE NOTES:

1. ALL TOPOGRAPHIC AND BOUNDARY SURVEY INFORMATION HAS BEEN OBTAINED FROM THE GARCIA SURVEYING & ENGINEERING, DATED 08/24/2018. SCHMIDT ASSOCIATES, INC. CLAIMS NO RESPONSIBILITY FOR THE ACCURACY OF THE INFORMATION PROVIDED IN THESE SURVEYS.
2. ALL DAMAGES TO EXISTING IMPROVEMENTS, EXCAVATION AND/OR REMOVAL OF ANY AND ALL EXISTING IMPROVEMENTS DURING CONSTRUCTION SHALL BE KEPT TO A MINIMUM. ANY EXISTING IMPROVEMENTS DAMAGED DURING CONSTRUCTION SHALL BE RESTORED, RECONSTRUCTED OR REPLACED BY THE CONTRACTOR AT HIS EXPENSE.
3. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REMOVE ALL MUD, DIRT, GRAVEL, AND ANY OTHER MATERIALS TRUCKED ONTO ANY PUBLIC OR PRIVATE STREETS OR SIDEWALKS.
4. PROVIDE SMOOTH GRADING TRANSITION FROM NEW AREAS TO EXISTING FEATURES AS NECESSARY.
5. THE CONTRACTOR SHALL SUBMIT SAMPLES OF MATERIALS AND FINISHES TO THE LANDSCAPE ARCHITECT/ENGINEER FOR APPROVAL PRIOR TO ORDERING AND INSTALLATION AS OUTLINED IN THE SPECIFICATIONS.
6. ALL AREAS WHERE PROPOSED ASPHALT PAVEMENT MEETS THE EXISTING PAVEMENT, THE EXISTING PAVEMENT EDGE SHALL BE PROPERLY SEALED WITH A TACK COAT MATERIAL.

GENERAL SITE DEMOLITION NOTES:

1. REMOVAL OF EXISTING CONCRETE AND ASPHALT PAVEMENT INDICATED ON PLANS SHALL INCLUDE ALL AGGREGATE BASE AND SUBGRADE MATERIALS. SAWCUT ALL EXISTING PAVED AREAS TO BE REMOVED. ALL CUTS SHALL BE CLEAN, NEAT AND TRUE TO LINE. WHERE PLANT MATERIAL IS PROPOSED TO REPLACE REMOVED CONCRETE AND ASPHALT, CONTRACTOR SHALL REMOVE ALL NON-ORGANIC OR TOXIC MATTER THAT WOULD INTERFERE WITH PROPOSED PLANT MATERIAL. CONTRACTOR SHALL DISPOSE OF EXCAVATED MATERIAL OFF-SITE AT APPROVED DISPOSAL SITES ONLY, UNLESS SHOWN OTHERWISE.
2. DEMOLISH AND COMPLETELY REMOVE FROM SITE, EXISTING UNDERGROUND UTILITIES INDICATED TO BE REMOVED. COORDINATE WITH UTILITY COMPANIES AND OWNER FOR SHUT-OFF SERVICES, IF LINES ARE ACTIVE.
3. ALL UNDERGROUND UTILITIES OR STRUCTURES IN PROPOSED PAVEMENT OR BUILDING AREAS REQUIRING REMOVAL SHALL BE BACKFILLED COMPLETELY WITH APPROVED ENGINEERED GRANULAR MATERIAL SUITABLE TO THE LANDSCAPE ARCHITECT/ENGINEER.
4. REFER TO M, E, AND P SERIES DRAWINGS FOR SITE DEMOLITION WORK TO BE PERFORMED BY MECHANICAL AND ELECTRICAL CONTRACTOR.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF EXISTING TREES AND SHRUBS DESIGNATED TO REMAIN WITHIN THE LIMITS OF CONSTRUCTION TO THE EXTENT OF THE DRIP LINES. EXISTING TREES SHALL BE FENCED OFF AND NO MATERIALS OR HEAVY EQUIPMENT SHALL ENCROACH FENCED AREAS DURING DEMOLITION AND CONSTRUCTION.
6. CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL DEBRIS IN A LEGAL MANNER.
7. CONTRACTOR SHALL MAINTAIN DUST CONTROL WITH WATER AT ALL TIMES. METER INSTALLATION AND WATER COSTS ARE THE RESPONSIBILITY OF THE CONTRACTOR.
8. THE USE OF EXPLOSIVES IS PROHIBITED ON THIS PROJECT.
9. CATCH BASINS, SEWER INLETS, ETC. ARE TO BE PROTECTED FROM DEBRIS AND SEDIMENTATION DURING DEMOLITION. INSTALL FILTER FABRIC UNDER ANY INLET CASTINGS ON OR OFF SITE THAT RECEIVE STORM WATER FROM THE SITE BEFORE ANY DEMOLITION OR EARTHWORK ACTIVITIES COMMENCE.
10. VERIFY ALL TREES TO BE REMOVED WITH LANDSCAPE ARCHITECT/ENGINEER IN FIELD PRIOR TO FELLING.
11. IF ANY DISCREPANCIES OCCUR BETWEEN CONTRACT DOCUMENTS AND SITE CONDITION DURING DEMOLITION,, CONTACT ARCHITECT/ENGINEER IMMEDIATELY.

GENERAL TRAFFIC CONTROL NOTES:

1. ALL TRAFFIC CONTROL SIGNS, DEVICES, LAYOUT, AND FIELD OPERATION SHALL BE IN ACCORDANCE WITH THE INDIANA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST REVISION, AND THE INDOT WORK ZONE TRAFFIC CONTROL GUIDELINES, LATEST REVISION.
2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE PLANNED CONSTRUCTION ACTIVITIES AND LANE CLOSURES WITHIN THE RIGHT-OF-WAY WITH THE CITY OF HAMMOND ENGINEERING & STREET DEPARTMENTS A MINIMUM OF 1 WEEK PRIOR TO CONSTRUCTION.
3. AT LEAST ONE LANE OF TRAFFIC SHALL BE MAINTAINED ON ADJACENT PUBLIC STREETS AT ALL TIMES. CONTRACTOR TO ERECT SIGNAGE & BARRICADES, DEPLOY FLAGGERS, AND PLACE HEAVY PLATES OVER EXCAVATIONS AS NEEDED TO PROTECT CONSTRUCTION AREAS FROM NORMAL TRAFFIC PATTERNS. SEE MAINTENANCE OF TRAFFIC PLAN.
4. ALL LANES TO BE OPEN AFTER DAYLIGHT WORKING HOURS.
5. TRAFFIC CIRCULATION ASSOCIATED WITH THE TRANSPORTATION OF STUDENTS IN BUSES AND PRIVATE VEHICLES SHALL BE MAINTAINED AT ALL TIMES. WORK THAT SIGNIFICANTLY RESTRICTS TRAFFIC CIRCULATION SHALL NOT BE SCHEDULED DURING PICK-UP/DROP-OFF PERIODS IN THE MORNING AND AFTERNOON WHEN SCHOOL IS IN SESSION.
6. THE SAFE MOVEMENT OF PEDESTRIANS AROUND EXISTING AND PROPOSED FACILITIES WITHIN THE SITE SHALL BE MAINTAINED AT ALL TIMES. CLOSURE OF SIDEWALKS WITHIN THE PUBLIC RIGHT-OF-WAY SHALL BE COORDINATED WITH THE CITY OF HAMMOND ENGINEERING & STREET DEPARTMENTS PRIOR TO CONSTRUCTION. CONTRACTOR TO ERECT SIGNAGE & BARRICADES AND INSTALL TEMPORARY CROSSWALKS AS NEEDED TO MAINTAIN PEDESTRIAN CIRCULATION WITHIN THE PUBLIC RIGHT-OF-WAY.

GENERAL SITE STAKING AND LAYOUT NOTES:

1. DO NOT SCALE DRAWING FOR DETERMINING EXACT LAYOUT INFORMATION.
2. CONTRACTOR SHALL STAKE AND VERIFY ALL DIMENSIONS IN FIELD PRIOR TO INITIATION OF ANY CONSTRUCTION. REVIEW ANY DISCREPANCIES IMMEDIATELY WITH THE LANDSCAPE ARCHITECT/ENGINEER FOR RESOLUTION.
3. ALL LAYOUT COMPONENTS SHALL BE STAKED OUT IN THE FIELD BY THE CONTRACTOR. OBTAIN LANDSCAPE ARCHITECT/ENGINEER APPROVAL BEFORE STARTING CONSTRUCTION.
4. ALL DIMENSIONS IN CURBED AREAS SHALL BE TO FACE OF CURB. ALL DIMENSIONS IN AREAS WITHOUT CURBING SHALL BE TO EDGE OF PAVEMENT. ALL DIMENSIONS AT INTEGRAL CURB AND WALK SHALL BE TO FACE OF CURB. ALL DIMENSIONS FROM BUILDING SHALL BE FROM FACE OF BUILDING.
5. ALL DIMENSIONS ARE PARALLEL AND PERPENDICULAR TO BASE LINES, PROPERTY LINES OR BUILDING LINES UNLESS OTHERWISE NOTED.
6. ALL RADII INDICATED SHALL BE FORMED AS CIRCULAR ARCS. ALL CURVES AND ARCS SHALL INTERSECT OTHER CURVES AND LINES AT POINTS OF TANGENCY TO FORM SMOOTH TRANSITIONS UNLESS CLEARLY SHOWN OTHERWISE.
7. WHERE NOT SHOWN, SIDEWALK AND RETAINING WALL EXPANSION JOINTS SHALL BE 30'-0" O.C. AND CONTROL JOINTS 5'-0" O.C. MAXIMUM SPACING. CURB EXPANSION JOINTS SHALL BE 50'-0" O.C. AND CONTROL JOINTS SHALL ALIGN WITH ADJACENT SIDEWALK WHERE APPLICABLE, OTHERWISE 5'-0" MAXIMUM SPACING SHALL BE USED.
8. ALL WALKS SHALL RECEIVE MEDIUM BROOM-SWEPT FINISH PERPENDICULAR TO DIRECTION OF TRAFFIC FLOW UNLESS OTHERWISE NOTED. COORDINATE JUNCTIONS WITH LANDSCAPE ARCHITECT/ENGINEER IN FIELD, UNLESS OTHERWISE NOTED.
9. ACCESSIBLE RAMPS AND SIGNAGE SHALL BE IN ACCORDANCE WITH FEDERAL, STATE, COUNTY, CITY, AND LOCAL CODES WHICHEVER HAS JURISDICTION. SEE SITE PLANS FOR LOCATIONS AND SITE DETAILS FOR SPECIFICATIONS.
10. PARKING STRIPING ASSOCIATED WITH ACCESSIBLE PARKING STALLS AND LOADING ZONES ARE TO BE 4" WIDE PAINTED BLUE. ALL OTHER STRIPES ARE TO BE 4" WIDE PAINTED WHITE. SPECIALITY PAVEMENT MARKING SHALL BE AS NOTED ON PLAN DETAILS.
11. REFER TO ARCHITECTURAL DRAWINGS FOR ALL BUILDING AND STRUCTURAL DIMENSIONS.
12. REFER TO PLANTING PLANS FOR LAYOUT OF ALL TREES, SHRUBS, PLANTING BEDS AND EXTENT OF ALL SODDING AND SEEDING.

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Project No. 2017-105.MHS
Project Date 09.06.2018
Produced ATJ

ALLEN T. JACOBSEN REGISTERED NO. 10001136 STATE OF INDIANA PROFESSIONAL ENGINEER

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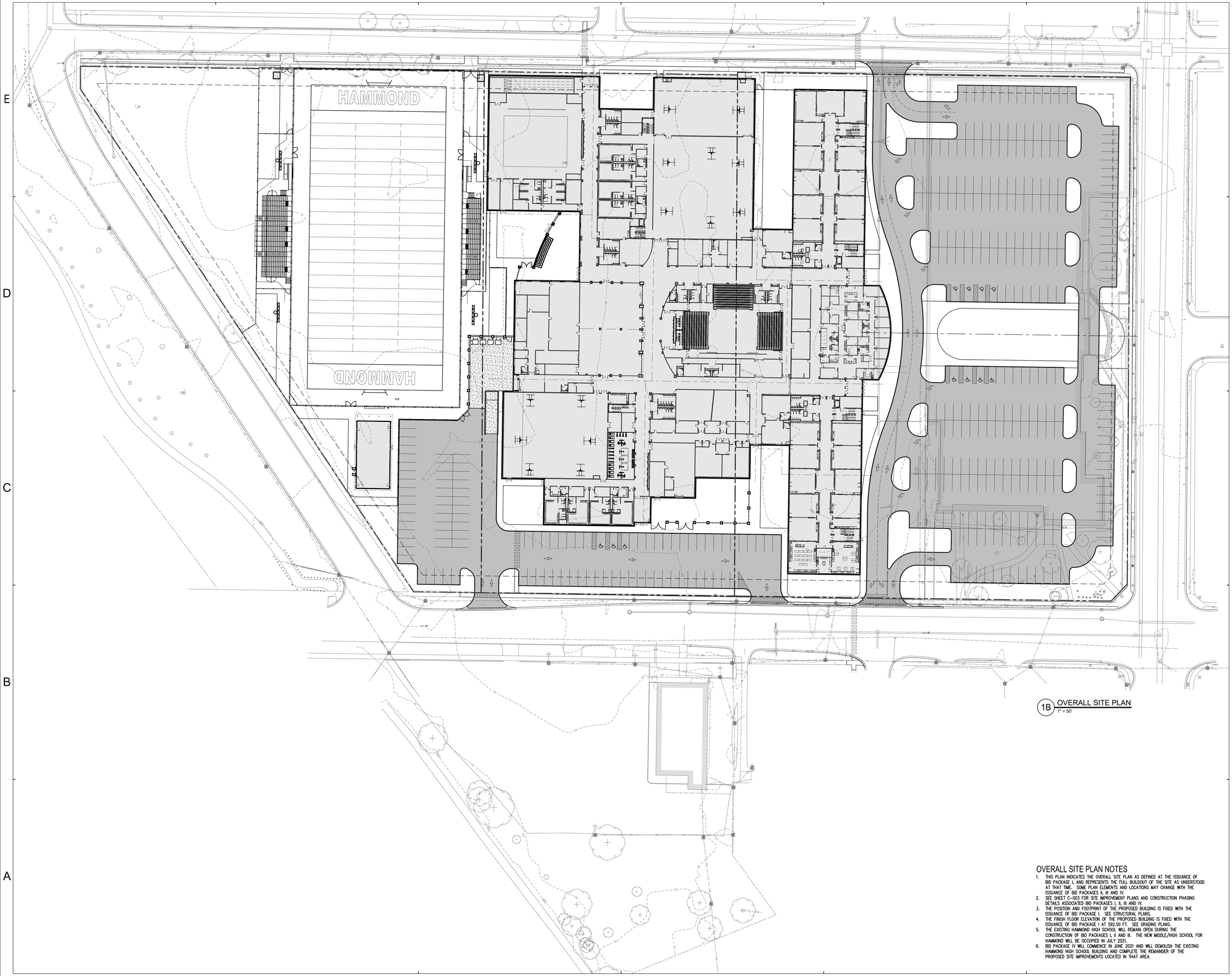
5926 Calumet Avenue
Hammond, IN 46320

School City of Hammond

New Middle / High School for Hammond
BID PACKAGE I

GENERAL NOTES & ABBREVIATIONS
C-001.1



1B OVERALL SITE PLAN
1" = 50'

OVERALL SITE PLAN NOTES

1. THIS PLAN INDICATES THE OVERALL SITE PLAN AS DEFINED AT THE ISSUANCE OF BID PACKAGE I, AND REPRESENTS THE FULL BUILDOUT OF THE SITE AS UNDERSTOOD AT THAT TIME. SOME PLAN ELEMENTS AND LOCATIONS MAY CHANGE WITH THE ISSUANCE OF BID PACKAGES II, III AND IV.
2. SEE SHEET C-003 FOR SITE IMPROVEMENT PLANS AND CONSTRUCTION PHASING DETAILS ASSOCIATED BID PACKAGES I, II, III AND IV.
3. THE POSITION AND FOOTPRINT OF THE PROPOSED BUILDING IS FIXED WITH THE ISSUANCE OF BID PACKAGE I. SEE STRUCTURAL PLANS.
4. THE FINISH FLOOR ELEVATION OF THE PROPOSED BUILDING IS FIXED WITH THE ISSUANCE OF BID PACKAGE I AT 592.50 FT. SEE GRADING PLANS.
5. THE EXISTING HAMMOND HIGH SCHOOL WILL REMAIN OPEN DURING THE CONSTRUCTION OF BID PACKAGES I, II AND III. THE NEW MIDDLE/HIGH SCHOOL FOR HAMMOND WILL BE OCCUPIED IN JULY 2021.
6. BID PACKAGE IV WILL COMMENCE IN JUNE 2021 AND WILL DEMOLISH THE EXISTING HAMMOND HIGH SCHOOL BUILDING AND COMPLETE THE REMAINDER OF THE PROPOSED SITE IMPROVEMENTS LOCATED IN THAT AREA.

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N

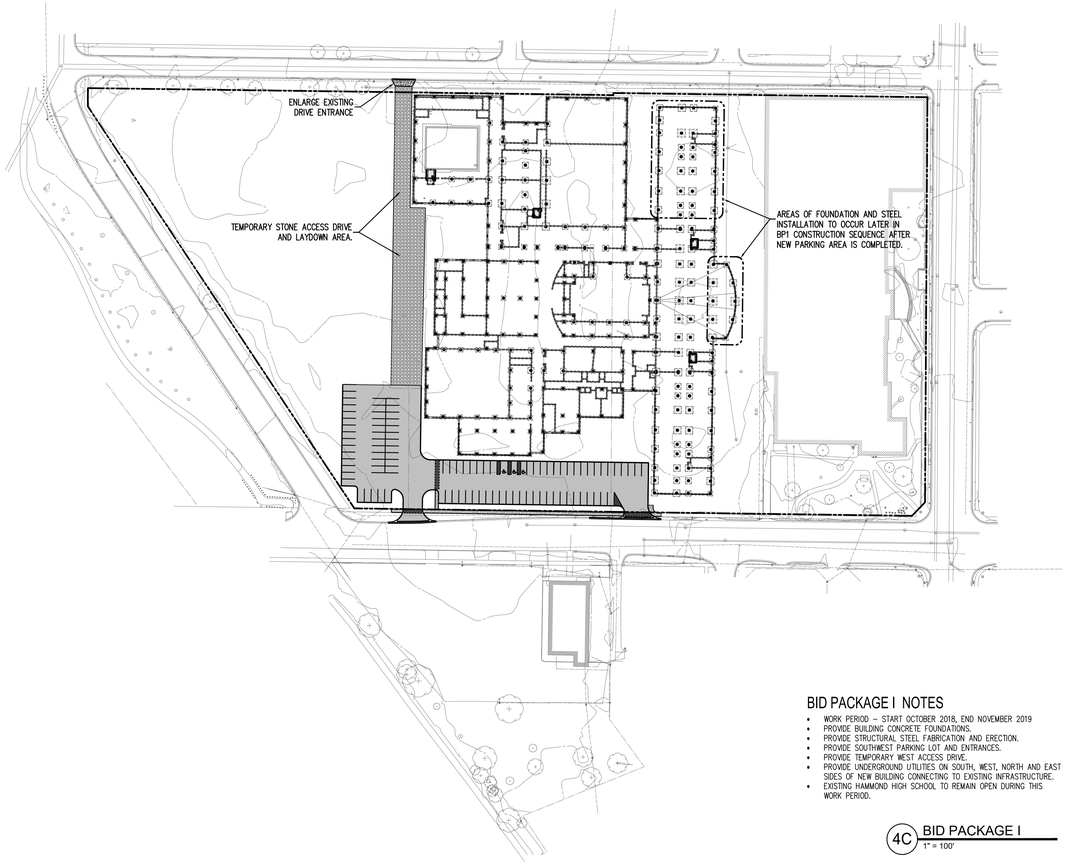
School City of Hammond

School City of Hammond

New Middle / High School for Hammond
BID PACKAGE I

OVERALL SITE PLAN

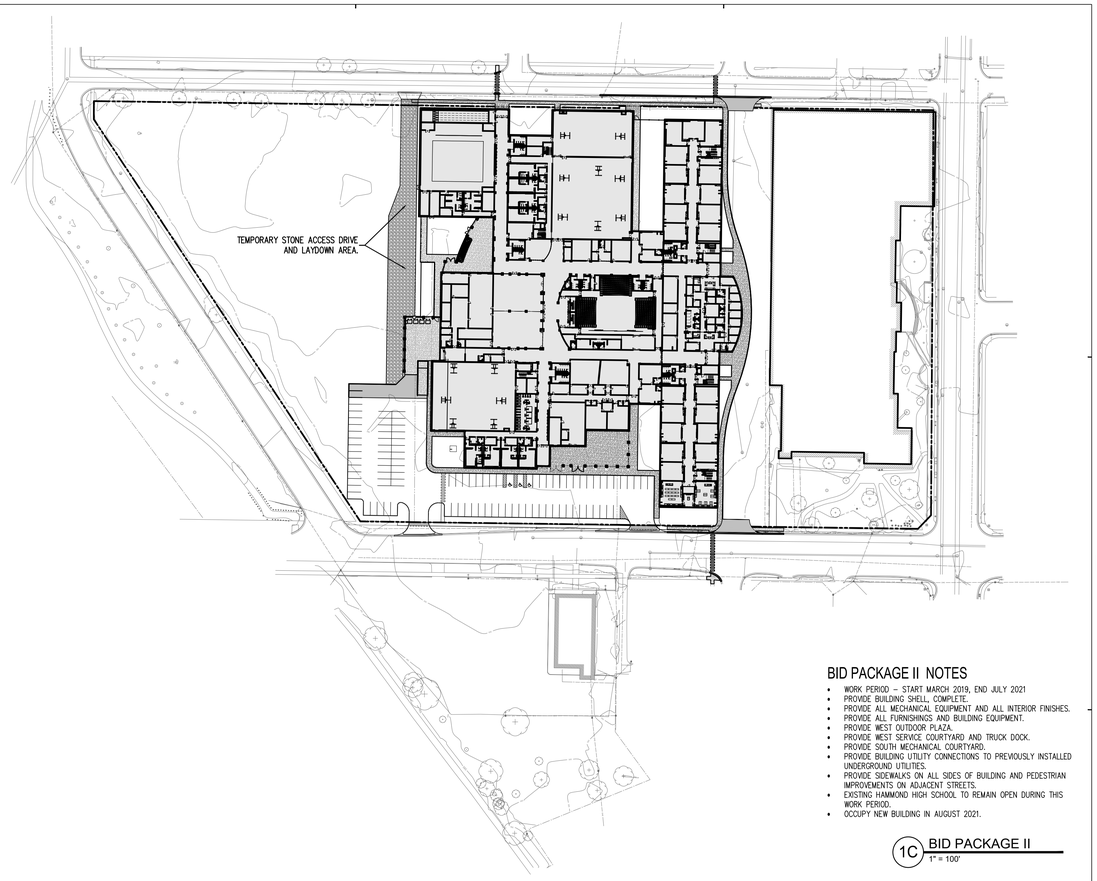
C-002.1



BID PACKAGE I NOTES

- WORK PERIOD – START OCTOBER 2018, END NOVEMBER 2019
- PROVIDE BUILDING CONCRETE FOUNDATIONS.
- PROVIDE STRUCTURAL STEEL FABRICATION AND ERECTION.
- PROVIDE SOUTHWEST PARKING LOT AND ENTRANCES.
- PROVIDE TEMPORARY WEST ACCESS DRIVE.
- PROVIDE UNDERGROUND UTILITIES ON SOUTH, WEST, NORTH AND EAST SIDES OF NEW BUILDING CONNECTING TO EXISTING INFRASTRUCTURE.
- EXISTING HAMMOND HIGH SCHOOL TO REMAIN OPEN DURING THIS WORK PERIOD.

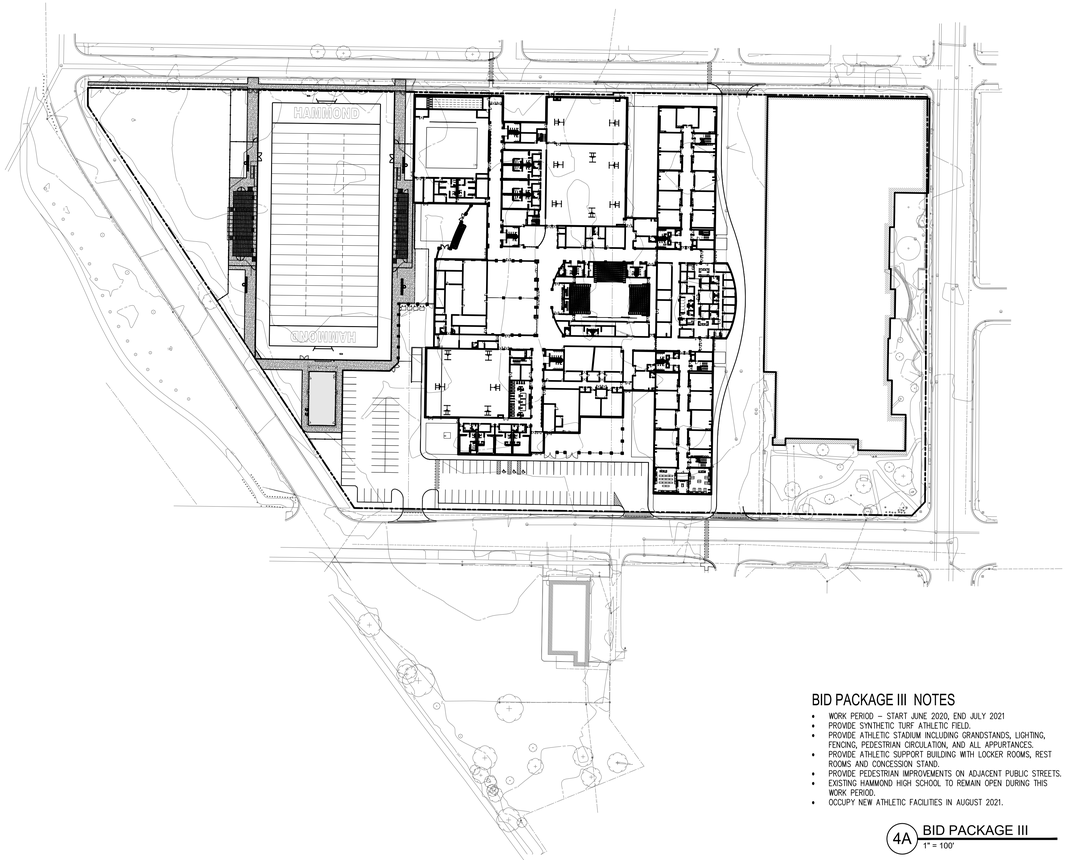
4C BID PACKAGE I
1" = 100'



BID PACKAGE II NOTES

- WORK PERIOD – START MARCH 2019, END JULY 2021
- PROVIDE BUILDING SHELL, COMPLETE.
- PROVIDE ALL MECHANICAL EQUIPMENT AND ALL INTERIOR FINISHES.
- PROVIDE ALL FURNISHINGS AND BUILDING EQUIPMENT.
- PROVIDE WEST OUTDOOR PLAZA.
- PROVIDE WEST SERVICE COURTYARD AND TRUCK DOCK.
- PROVIDE SOUTH MECHANICAL COURTYARD.
- PROVIDE BUILDING UTILITY CONNECTIONS TO PREVIOUSLY INSTALLED UNDERGROUND UTILITIES.
- PROVIDE SIDEWALKS ON ALL SIDES OF BUILDING AND PEDESTRIAN IMPROVEMENTS ON ADJACENT STREETS.
- EXISTING HAMMOND HIGH SCHOOL TO REMAIN OPEN DURING THIS WORK PERIOD.
- OCCUPY NEW BUILDING IN AUGUST 2021.

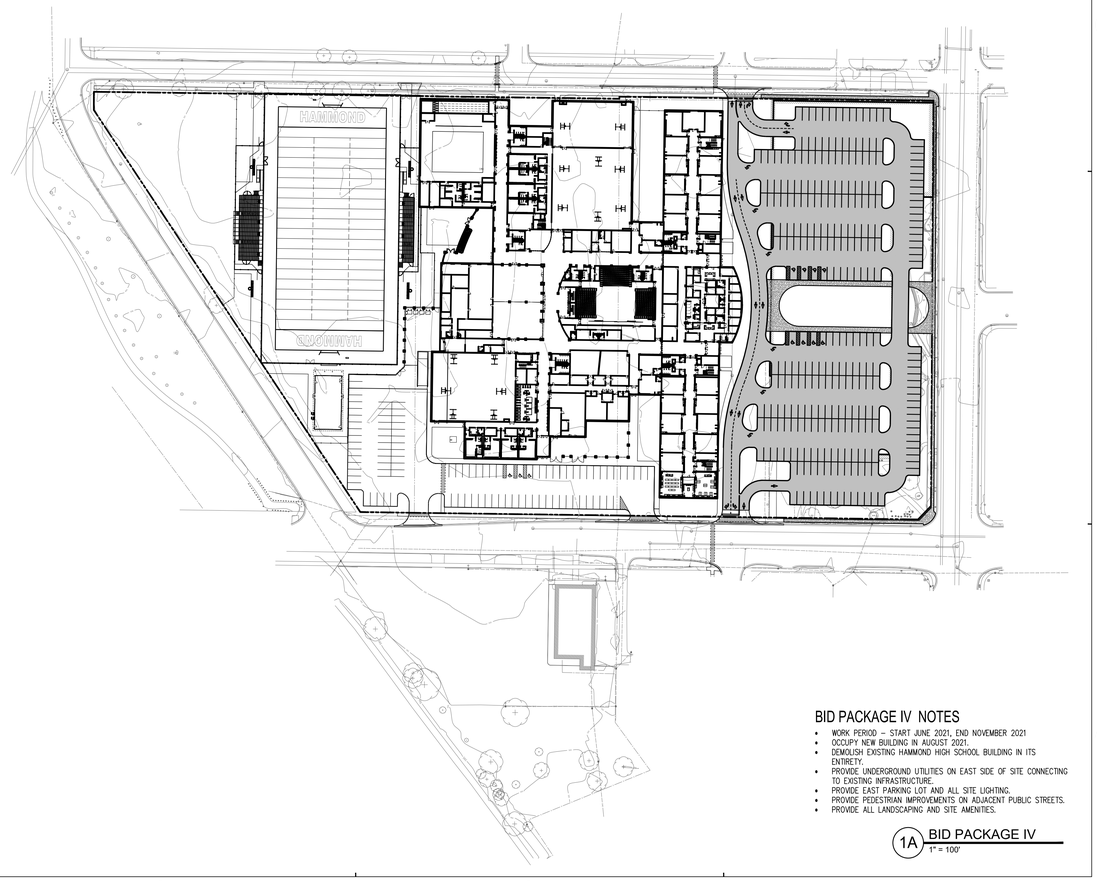
1C BID PACKAGE II
1" = 100'



BID PACKAGE III NOTES

- WORK PERIOD – START JUNE 2020, END JULY 2021
- PROVIDE SYNTHETIC TURF ATHLETIC FIELD.
- PROVIDE ATHLETIC STADIUM INCLUDING GRANDSTANDS, LIGHTING, FENCING, PEDESTRIAN CIRCULATION, AND ALL APPURTANCES.
- PROVIDE ATHLETIC SUPPORT BUILDING WITH LOCKER ROOMS, REST ROOMS AND CONCESSION STAND.
- PROVIDE PEDESTRIAN IMPROVEMENTS ON ADJACENT PUBLIC STREETS.
- EXISTING HAMMOND HIGH SCHOOL TO REMAIN OPEN DURING THIS WORK PERIOD.
- OCCUPY NEW ATHLETIC FACILITIES IN AUGUST 2021.

4A BID PACKAGE III
1" = 100'



BID PACKAGE IV NOTES

- WORK PERIOD – START JUNE 2021, END NOVEMBER 2021
- OCCUPY NEW BUILDING IN AUGUST 2021.
- DEMOLISH EXISTING HAMMOND HIGH SCHOOL BUILDING IN ITS ENTIRETY.
- PROVIDE UNDERGROUND UTILITIES ON EAST SIDE OF SITE CONNECTING TO EXISTING INFRASTRUCTURE.
- PROVIDE EAST PARKING LOT AND ALL SITE LIGHTING.
- PROVIDE PEDESTRIAN IMPROVEMENTS ON ADJACENT PUBLIC STREETS.
- PROVIDE ALL LANDSCAPING AND SITE AMENITIES.

1A BID PACKAGE IV
1" = 100'

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N

School City of Hammond

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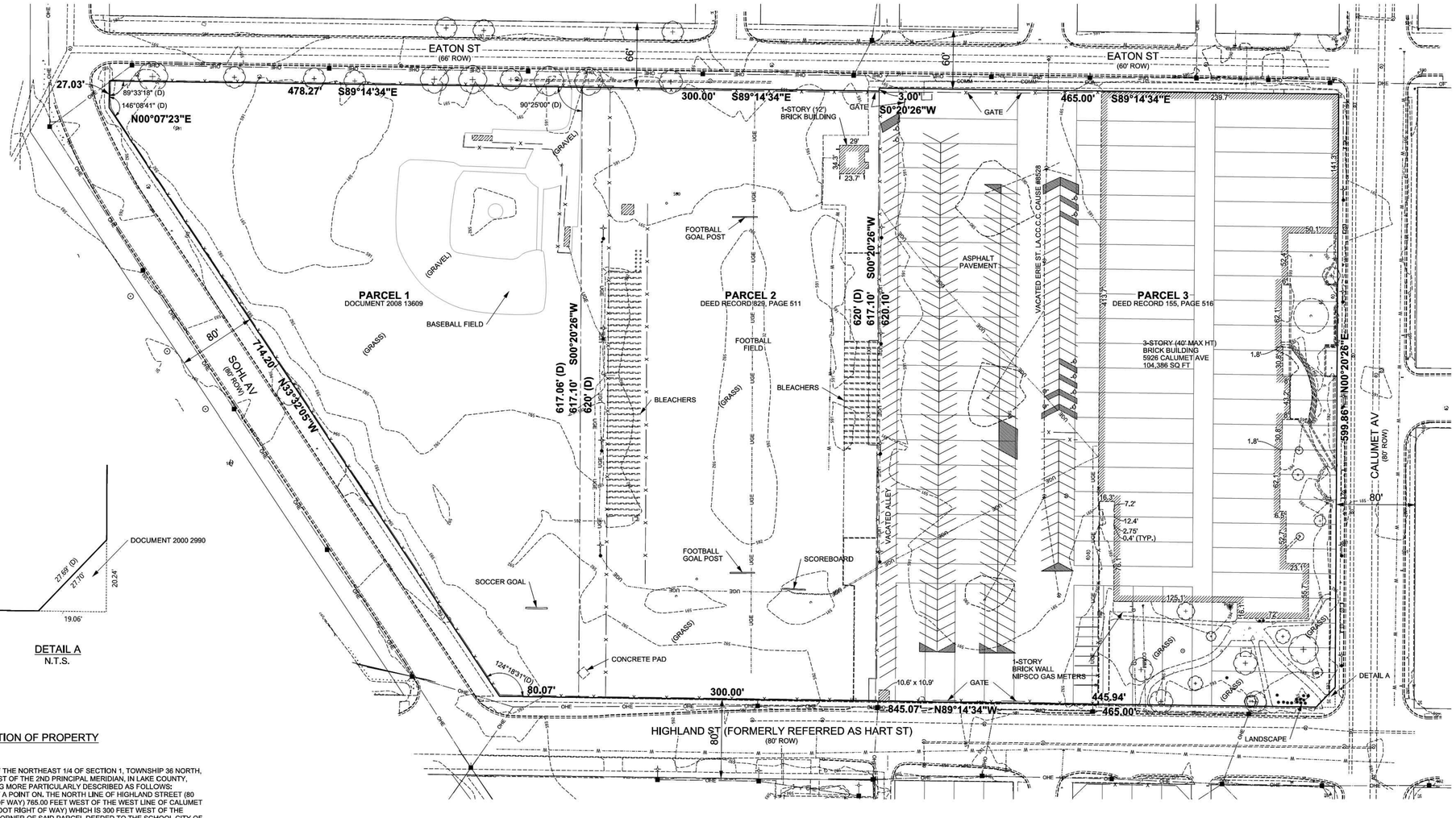
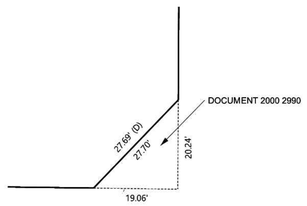
New Middle / High School for Hammond
BID PACKAGE I

PROJECT PHASING PLAN

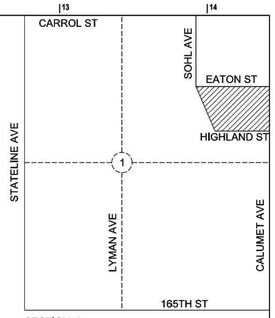
C-003.1

ALTA/NSPS LAND TITLE SURVEY





DETAIL A
N.T.S.



SECTION: 1
TOWNSHIP: 36N
RANGE: 10W

0 25 50 75 100
SCALE IN FEET
SCALE: 1" = 50'

DESCRIPTION OF PROPERTY

PARCEL 1:

THAT PART OF THE NORTHEAST 1/4 OF SECTION 1, TOWNSHIP 36 NORTH, RANGE 10 WEST OF THE 2ND PRINCIPAL MERIDIAN, IN LAKE COUNTY, INDIANA, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS: BEGINNING AT A POINT ON, THE NORTH LINE OF HIGHLAND STREET (80 FOOT RIGHT OF WAY) 765.00 FEET WEST OF THE WEST LINE OF CALUMET AVENUE (80 FOOT RIGHT OF WAY) WHICH IS 300 FEET WEST OF THE SOUTHEAST CORNER OF SAID PARCEL DEEDED TO THE SCHOOL CITY OF HAMMOND IN DEED RECORD 829 PAGE 511; THENCE WEST ALONG THE SAID NORTH LINE OF HIGHLAND STREET (80 FOOT RIGHT OF WAY), A DISTANCE OF 80.07 FEET TO THE EASTERLY LINE OF SOHL AVENUE; THENCE NORTHWESTERLY ALONG SAID EASTERLY LINE MAKING AN INTERIOR ANGLE OF 124 DEGREES 18 MINUTES 31 SECONDS WITH THE PRECEDING COURSE, A DISTANCE OF 714.20 FEET; THENCE NORTH CONTINUING ALONG THE EAST LINE OF SOHL AVENUE (80 FOOT RIGHT OF WAY) MAKING AN INTERIOR ANGLE OF 146 DEGREES 08 MINUTES 41 SECONDS WITH THE PRECEDING COURSE, A DISTANCE OF 27.03 FEET TO THE SOUTH LINE OF EATON STREET (66 FOOT RIGHT OF WAY); THENCE EAST ALONG SAID SOUTH LINE OF EATON STREET MAKING AN INTERIOR ANGLE OF 89 DEGREES 33 MINUTES 18 SECONDS WITH THE PRECEDING COURSE, A DISTANCE OF 478.27 FEET TO A POINT WHICH IS 765.00 FEET WEST OF THE WEST LINE OF CALUMET AVENUE (80 FOOT RIGHT OF WAY) AS MEASURED ALONG THE NORTH LINE OF SAID HIGHLAND STREET; THENCE SOUTH MAKING AN INTERIOR ANGLE OF 90 DEGREES 25 MINUTES 00 SECONDS WITH THE PRECEDING COURSE, A DISTANCE OF 617.06 FEET TO THE POINT OF BEGINNING.

PARCEL 2:

BEGINNING AT A POINT ON THE NORTH LINE OF HIGHLAND STREET WHICH IS 465 FEET WEST OF THE WEST LINE OF CALUMET AVENUE; THENCE WEST ALONG THE NORTH LINE OF HIGHLAND STREET A DISTANCE OF 300 FEET; THENCE NORTH PARALLEL TO THE WEST LINE OF CALUMET AVENUE A DISTANCE OF 620 FEET, MORE OR LESS, TO THE SOUTH LINE OF EATON STREET; THENCE EAST ALONG THE SOUTH LINE OF EATON STREET A DISTANCE OF 300 FEET TO A POINT WHICH IS 465 FEET WEST OF THE WEST LINE OF CALUMET AVENUE, THENCE SOUTH PARALLEL TO THE WEST LINE OF CALUMET AVENUE A DISTANCE OF 620 FEET, MORE OR LESS, TO THE NORTH LINE OF HIGHLAND STREET, THE PLACE OF BEGINNING, ALL SITUATED IN THE NORTHEAST QUARTER (NE1/4) OF SECTION 1, TOWNSHIP 36 NORTH, RANGE 10 WEST OF THE 2ND P. M., IN THE CITY OF HAMMOND, COUNTY OF LAKE, STATE OF INDIANA.

PARCEL 3:

PART OF THE SOUTHEAST QUARTER OF THE FRACTIONAL NORTHEAST QUARTER OF SECTION 1, TOWNSHIP 36 NORTH, RANGE 10 WEST OF THE 2ND P.M. DESCRIBED AS FOLLOWS: COMMENCING AT THE NORTHWEST CORNER OF CALUMET AVENUE AND HART STREET; THENCE WEST AND ALONG THE NORTH LINE OF HART STREET FOUR HUNDRED AND SIXTY FIVE FEET MORE OR LESS TO THE INTERSECTION OF THE NORTH LINE OF HART STREET WITH THE WEST LINE OF THE FIRST ALLEY WEST OF ERIE STREET (WHICH SAID ALLEY RUNS NORTH AND SOUTH); THENCE NORTH AND ALONG THE WEST LINE OF SAID ALLEY, SIX HUNDRED AND TWENTY FEET, MORE OR LESS, TO THE SOUTH LINE OF EATON STREET; THENCE EAST AND ALONG THE SOUTH LINE OF EATON STREET FOUR HUNDRED AND SIXTY FIVE FEET, MORE OR LESS, TO THE WEST LINE OF CALUMET AVENUE; THENCE SOUTH ALONG THE WEST LINE OF CALUMET AVENUE TO THE NORTH LINE OF HART STREET, THE PLACE OF BEGINNING, ALL IN THE CITY OF HAMMOND, INDIANA, NOW KNOWN AS LOTS 1 TO 47, BOTH INCLUSIVE, BLOCK 1 AND LOTS 1 TO 23, BOTH INCLUSIVE, BLOCK 4, TURNER'S 2ND ADDITION TO THE CITY OF HAMMOND, AS PER PLAT THEREOF, RECORDED IN PLAT BOOK 7, PAGE 31, IN THE OFFICE OF THE RECORDER OF LAKE COUNTY, INDIANA, AND A PORTION OF VACATED ERIE STREET AND SAID VACATED ALLEYS HAVING BEEN VACATED BY CASE NO. 8528 ON FEBRUARY 8, 1910, EXCEPT THEREFROM, A PART OF LOT 24 IN BLOCK 1, TURNER'S SECOND ADDITION TO THE CITY OF HAMMOND, INDIANA, IN PLAT BOOK 7, PAGE 31, AS EVIDENCED IN WARRANTY DEED RECORDED JANUARY 14, 2000 AS DOCUMENT NO. 2000 002990.

PROPERTY AREA: 14.94 ACRES

SURVEY NOTES

FLOOD ZONE

ACCORDING TO FEMA COMMUNITY PANEL 18089C0107E, EFFECTIVE 1/18/2012, THE LAND IS WITHIN ZONE X, AREAS OF MINIMAL FLOOD HAZARD.

VERTICAL RELIEF

CONTOURS ARE FROM STATE OF INDIANA LIDAR MAPPING, VERIFIED BY FIELD SURVEY.

EVIDENCE OF CONSTRUCTION

THERE IS NO EVIDENCE OF RECENT EARTH MOVING WORK, BUILDING CONSTRUCTION, OR BUILDING ADDITIONS OBSERVED IN THE PROCESS OF CONDUCTING THE FIELDWORK.

WETLANDS

NO EVIDENCE OF WETLAND DELINEATION MARKERS WERE OBSERVED IN THE PROCESS OF CONDUCTING THE FIELDWORK.

UTILITIES

UTILITIES NOTED ON THE PLAT ARE FROM FIELD OBSERVATION OF SURFACE FEATURES, UTILITY MARKINGS FROM AN 811 UTILITY LOCATE, FIELD MARKINGS FROM THE UNDERGROUND DETECTIVE, AND HAMMOND QUARTER SECTION MAPS.
OTHER UNDERGROUND UTILITIES MAY EXIST THAT WERE NOT MARKED OR WERE NOT VISIBLE FROM SURFACE OBSERVATIONS.

CHICAGO TITLE INSURANCE COMPANY COMMITMENT NO. CTNW1806506, SUPPLEMENT 1, DATED JULY 2, 2018 WAS PROVIDED TO THE SURVEYOR FOR USE IN PREPARING THIS SURVEY.

SURVEYOR'S REPORT:

IN ACCORDANCE WITH TITLE 865, ARTICLE 1, CHAPTER 12 OF THE INDIANA ADMINISTRATIVE CODE ("RULE 12"), THE FOLLOWING OBSERVATIONS AND OPINIONS ARE SUBMITTED REGARDING THE VARIOUS CAUSES AND AMOUNT OF UNCERTAINTY IN THE LOCATION OF THE LINES AND CORNERS DUE TO THE FOLLOWING:

(A) AVAILABILITY OF REFERENCE MONUMENTS AND THEORY OF LOCATION
THEORY OF LOCATION:
EXISTING MONUMENTS FOUND ARE NOTED ON THE PLAT AND WERE USED, ALONG WITH RIGHT-OF-WAY EVIDENCE, TO ESTABLISH THE LOCATION OF THE DESCRIBED LAND. THE BASIS OF BEARINGS IS ASSUMED.

(B) OCCUPATION OR POSSESSION LINES:
THE OCCUPATION OF THE SUBJECT PARCEL IS GENERALLY CONSISTENT WITH THE BOUNDARY LINES. THE NORTHEAST CORNER OF THE HIGH SCHOOL BUILDING ENCROACHES INTO THE RIGHT-OF-WAY OF EATON STREET BY 0.4 FEET.

(C) CLARITY OR AMBIGUITY OF THE RECORD DESCRIPTION USED AND/OR ADJOINER'S DESCRIPTIONS:
NONE WERE FOUND.

(D) THE RELATIVE POSITIONAL ACCURACY OF THE MEASUREMENTS
THE RELATIVE POSITIONAL ACCURACY OF THE MEASUREMENTS (DUE TO RANDOM ERRORS IN MEASUREMENTS) OF THE CORNERS OF THE SUBJECT LAND ESTABLISHED BY THIS SURVEY IS WITHIN THE SPECIFICATIONS FOR AN URBAN SURVEY (0.07 FEET PLUS 50 PARTS PER MILLION) AS DEFINED IN 865 IAC 1-12-7.

SURVEYOR'S CERTIFICATE:

CERTIFIED TO: SCHOOL CITY OF HAMMOND
CHICAGO TITLE INSURANCE COMPANY

I, GREGG L. HEINZMAN, HEREBY CERTIFY THAT THIS SURVEY WAS PERFORMED UNDER MY DIRECTION IN ACCORDANCE WITH 865 IAC 1-12 (RULE 12) AND TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF, THE PLAT HEREON DRAWN IS A TRUE AND ACCURATE REPRESENTATION OF SAID SURVEY.

THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH THE 2016 MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/NSPS LAND TITLE SURVEYS, JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS, AND INCLUDES ITEMS 1, 2, 3, 4, 5, 6a, 6b, 7a, 7c, 8, 11, 13, 16, 19, AND 20, OF TABLE A THEREOF. THE FIELD WORK WAS COMPLETED ON 6/23/2018.

GIVEN UNDER MY HAND AND SEAL THIS 24th DAY OF AUGUST, 2018.

GREGG L. HEINZMAN, REGISTERED LAND SURVEYOR,
STATE OF INDIANA, NO. LS29700020

GREGG L. HEINZMAN
REGISTERED
No.
LS29700020
STATE OF
INDIANA
LAND SURVEYOR

Garcia Consulting Engineers

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FIELD VERIFICATION

CONTRACTOR SHALL FIELD VERIFY ALL REQUIRED DIMENSIONS AND CONDITIONS AT THE JOB SITE AND NOTIFY ARCHITECT AND/ OR ENGINEER OF ANY DISCREPANCIES BEFORE BEGINNING OR FABRICATING ANY WORK. DO NOT SCALE THESE DRAWINGS.

- MANHOLE
- UNKNOWN MANHOLE
- FIRE HYDRANT
- WATER VALVE
- LIGHT POLE
- POWERPOLE
- SIGNAL HAND HOLE
- BOLLARD
- (D) DEED DIMENSION

DATE: 8/24/2018
PROJECT No: SCHammond-18-0501-A
DRAWN: BMB/MBC **CHECKED:** GLH
FILE NAME: 2018 0803 Plans.dgn

REVISION	DESCRIPTION	DATE

PRELIMINARY
PRINT DATE & TIME:
8/24/2018
12:53:02 PM

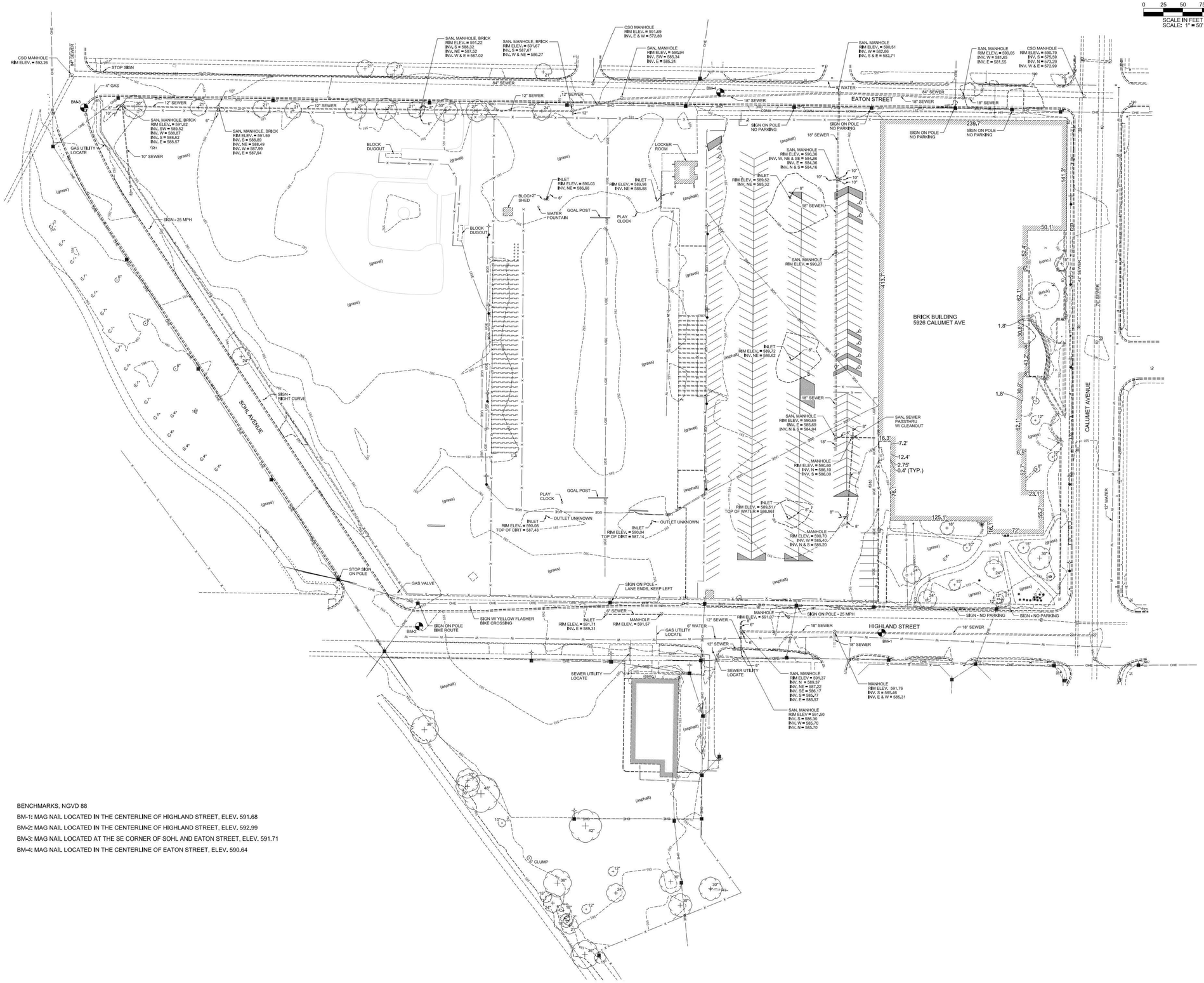
Prepared for:
School City of Hammond

5926 Calumet Ave
Hammond, IN 46320

ALTA/NSPS
LAND TITLE SURVEY

SHEET 1 OF 2

SV101



BENCHMARKS, NGVD 88

BM-1: MAG NAIL LOCATED IN THE CENTERLINE OF HIGHLAND STREET, ELEV. 591.68

BM-2: MAG NAIL LOCATED IN THE CENTERLINE OF HIGHLAND STREET, ELEV. 592.99

BM-3: MAG NAIL LOCATED AT THE SE CORNER OF SOHL AND EATON STREET, ELEV. 591.71

BM-4: MAG NAIL LOCATED IN THE CENTERLINE OF EATON STREET, ELEV. 590.64

0 25 50 75 100

SCALE IN FEET
SCALE: 1" = 50'

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SEWER MANHOLE
CATCH BASIN
INLET
FIRE HYDRANT
WATER VALVE
LIGHT POLE
UTILITY POLE
TRAFFIC SIGNAL POLE
HANDHOLD
DECIDUOUS TREE (SIZE AS NOTED)
BUSH
W — WATER MAIN
OHE — OVERHEAD ELECTRIC
UGE — UNDERGROUND ELECTRIC
G — GAS MAIN
X — FENCE

DATE: 08/10/2018

PROJECT No: SCHammond-18-0501-A

DRAWN: BMB **CHECKED:** GLH

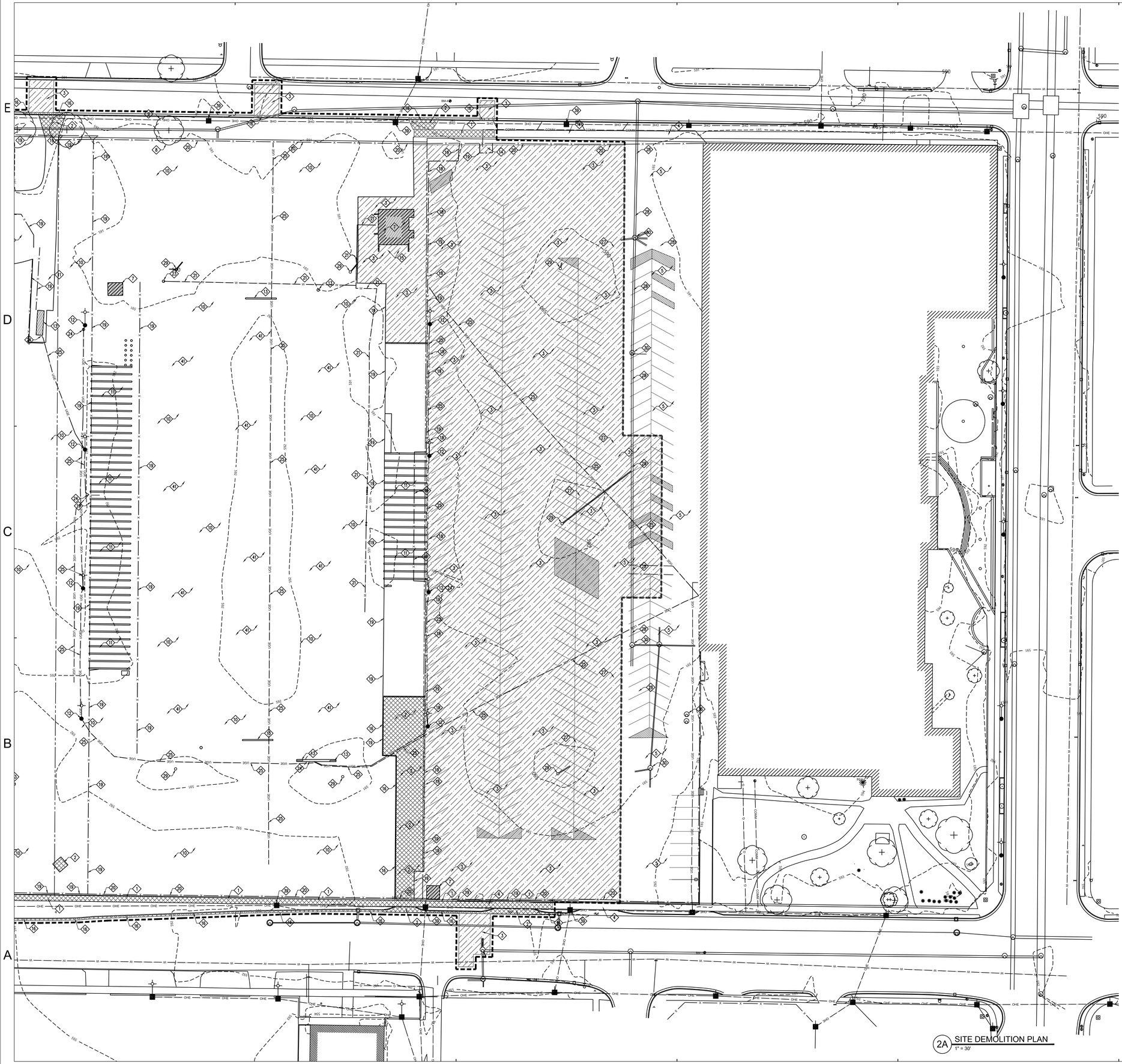
FILE NAME: 2018 0709 topo.dgn

REVISION	DESCRIPTION	DATE

Prepared for:
Shmidt Associates
5926 Calumet Ave
Hammond, IN 46320

Topographic Survey

SHEET 1 OF 1



2A SITE DEMOLITION PLAN
1" = 30'

DEMOLITION LEGEND

- DEMOLISH AND REMOVE BUILDING IN ITS ENTIRETY.
- SAW CUT AND REMOVE CONCRETE.
- SAW CUT AND REMOVE ASPHALT.
- CONSTRUCTION LIMITS LINE

GENERAL NOTES

1. REFERENCE C-001 FOR GENERAL DEMOLITION PLAN NOTES.
2. SEE ELECTRICAL SITE PLAN, FOR ALL ELECTRICAL, PHONE AND TECHNOLOGY DEMOLITION WORK.
3. NOT ALL NOTES MAY APPLY TO THIS SHEET.
4. USE CAUTION NOT TO DAMAGE UTILITIES AND FEATURES TO REMAIN.
5. UNLESS NOTED OTHERWISE, ALL ITEMS TO BE REMOVED SHALL BE DISPOSED OF OR RECYCLED. ALL DISPOSAL SHALL BE IN ACCORDANCE WITH APPLICABLE STATE AND FEDERAL REGULATIONS.
6. WHILE EVERY EFFORT HAS BEEN MADE TO SHOW ALL DEMOLITION REQUIRED, THE CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO BID TO FULLY UNDERSTAND WHAT ITEMS ARE IN THE WAY OF NEW CONSTRUCTION. ONLY THOSE ITEMS UNDERGROUND AND NOT INDICATED ANYWHERE IN CONTRACT DOCUMENTS WILL BE CONSIDERED AS UNFORESEEN CONDITIONS. CHANGE ORDERS WILL NOT BE ISSUED FOR VISIBLE ITEMS.

DEMOLITION KEY NOTES

1. REMOVE CONCRETE SIDEWALK.
2. REMOVE CONCRETE PAVEMENT.
3. REMOVE ASPHALT PAVEMENT.
4. CONCRETE SIDEWALK TO REMAIN. REPAIR IF DAMAGED.
5. ASPHALT PAVEMENT TO REMAIN. REPAIR IF DAMAGED.
6. REMOVE SIGN AND POST.
7. DEMOLISH BUILDING IN ITS ENTIRETY & REMOVE ASSOCIATED FOUNDATIONS. CUT & PERMANENTLY CAP ALL UTILITY SERVICE CONNECTIONS.
8. REMOVE TREES, SHRUBS, STUMPS & ROOT SYSTEM.
9. TREES TO REMAIN. PROTECT DURING CONSTRUCTION.
10. REMOVE ALL TURF AND MISCELLANEOUS PLANTINGS, CLEAR & GRUB.
11. REMOVE & SALVAGE METAL GRANDSTANDS AND PRESSBOX AT THE DIRECTION OF THE OWNER. REMOVE ALL CONCRETE FOOTINGS.
12. REMOVE ATHLETIC LIGHTING SYSTEM INCLUDING FIXTURES, POLES & FOOTINGS.
13. REMOVE ALL ATHLETIC EQUIPMENT, DUGOUTS, SCOREBOARDS, GOAL POSTS, ETC.
14. REMOVE & SALVAGE WEATHER MONITORING STATION & MAST. REMOVE ASSOCIATED FOOTING.
15. REMOVE METAL TUBE HAND RAIL.
16. REMOVE CONCRETE CURB.
17. CONCRETE CURB TO REMAIN, REPAIR IF DAMAGED.
18. REMOVE PARKING BUMPER BLOCKS.
19. REMOVE FENCE, GATES, POSTS AND ASSOCIATED HARDWARE.
20. FENCE TO REMAIN. REPLACE IF DAMAGED.
21. REMOVE WATER MAIN OR WATER SERVICE LINE.
22. WATER MAIN TO REMAIN. REPAIR IF DAMAGED.
23. REMOVE WATER STRUCTURE.
24. REMOVE ELECTRICAL STRUCTURE.
25. REMOVE ELECTRICAL LINE.
26. REMOVE METAL LIGHT POLE & CONCRETE BASE.
27. CUT, CAP, & REMOVE STORM SEWER PIPE.
28. STORM SEWER PIPE TO REMAIN.
29. REMOVE STORM SEWER STRUCTURE.
30. STORM SEWER STRUCTURE TO REMAIN. PROTECT DURING CONSTRUCTION.
31. REMOVE GAS LINE.
32. GAS LINE TO REMAIN. PROTECT DURING CONSTRUCTION.
33. CUT, CAP & REMOVE SANITARY SEWER PIPE.
34. SANITARY SEWER PIPE TO REMAIN. PROTECT DURING CONSTRUCTION.
35. REMOVE SANITARY SEWER STRUCTURE.
36. SANITARY SEWER STRUCTURE TO REMAIN. PROTECT DURING CONSTRUCTION.
37. REMOVE SANITARY SEWER CLEANOUT.
38. REMOVE UNDERGROUND TELECOM/FIBER LINES.
39. OVERHEAD POWER POLE AND LINES TO REMAIN, PROTECT DURING CONSTRUCTION.
40. REMOVE SITE FURNISHINGS.
41. REMOVE IRRIGATION SYSTEM.

DEMOLITION NOTES

1. THE OWNER WILL REMOVE ALL MISCELLANEOUS SITE EQUIPMENT TO BE SALVAGED PRIOR TO START OF CONTRUCTION.
2. SEE SHEETS C-003 & CL101/102 FOR CONSTRUCTION PHASING PLAN AND ADDITIONAL INFORMATION REGARDING SEQUENCE OF DEMOLITION.
3. THE CONTRACTOR SHALL DEMOLISH AND REMOVE FROM THE SITE ALL MATERIALS INDICATED ON THE PLAN OR THAT ARE IN CONFLICT WITH THE PROPOSED WORK. GENERALLY, DEMOLITION AREAS AND FACILITIES ARE INDICATED WITH BOLD LINES, SHADED AREAS AND/OR KEY NOTES.
4. DISPOSAL OF ALL DEMOLITION MATERIALS SHALL BE IN ACCORDANCE WITH APPLICABLE STATE AND FEDERAL GUIDELINES AND PROCEDURES.
5. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING FEATURES ALONG THE PERIMETER OF THE SITE. THESE FEATURES INCLUDE, BUT ARE NOT LIMITED TO: BUILDINGS, PAVEMENTS, FENCES, VEGETATION, UNDERGROUND UTILITIES, ABOVE GROUND UTILITIES, PROPERTY MARKERS, SIGNS, TREES, ETC. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE WHICH OCCURS DURING OR AS A RESULT OF CONSTRUCTION ACTIVITY. REPLACEMENT OF DAMAGED PROPERTY OR FEATURES SHALL BE EQUAL TO EXISTING CONDITIONS.
6. ALL UTILITIES WITHIN THE SUBJECT SITE SERVING SERVING THE CUURENT SCHOOL BUILDING SHALL BE REMOVED TO THE STREET RIGHT-OF-WAY AND PERMANENTLY CAPPED OR BULKHEADED.
7. ANY UNDERGROUND UTILITY PIPES OR CONDUITS THAT ARE ABANDONED IN PLACE SHALL BE FILLED WITH FLOWABLE CONCRETE GROUT.
8. FOLLOWING THE COMPLETION OF PROPOSED SITE IMPROVEMENTS AND FOLLOWING THE COMPLETION OF EARTHWORK AS INDICATED ON THE GRADING PLAN, CONTRACTOR SHALL SUPPLY AND INSTALL TOPSOIL FILL IN ALL PROPOSED PLANTING AREAS TO THE GRADES INDICATED ON THE GRADING PLAN, AND IN ACCORDANCE WITH THE EARTHWORK AND LANDSCAPING SPECIFICATIONS.
9. ALL TREES, BRUSH, STUMPS, AND GRUBBING DEBRIS SCHEDULED FOR DEMOLITION SHALL BE REMOVED FROM THE SITE.
10. ALL TOPSOIL IN AREAS SUBJECT TO CONSTRUCTION SHALL BE STRIPPED AND STOCKPILED FOR REPLACEMENT DURING FINISH GRADING. SEE SHEET CE101/102.
11. CURRENT FIELD CONDITIONS MAY VARY SOMEWHAT FROM THOSE INDICATED ON THIS PLAN. THE INFORMATION SHOULD NOT BE CONSIDERED AS EXACT OR COMPLETE.
    - 11.1. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LINE LOCATIONS PRIOR TO CONSTRUCTION. CONTACT THE INDIANA UNDERGROUND UTILITY PLANT PROTECTION SERVICE AT 1-800-382-5540 OR DIAL 811 (INDIANA). A PRIVATE UTILITY LOCATION SERVICE MAY BE REQUIRED IN AREAS NOT COVERED BY IUPPS.
    - 11.2. THE CONTRACTOR SHALL NOTIFY ALL APPROPRIATE UTILITY COMPANIES AT LEAST 48 HOURS PRIOR TO THE COMMENCEMENT OR RESUMPTION OF WORK THAT COULD POTENTIALLY DISRUPT THE RESPECTIVE UTILITY SERVICE OF INFRASTRUCTURE.
    - 11.3. UNLESS NOTED OTHERWISE, THE CONTRACTOR IS RESPONSIBLE FOR THE RELOCATION OF ALL EXISTING UTILITIES WHICH ARE IN CONFLICT WITH THE PROPOSED SITE IMPROVEMENTS.
    - 11.4. ANY DAMAGE TO EXISTING UTILITY LINES SHALL BE REPAIRED AT THE EXPENSE OF THE CONTRACTOR.

SCHMIDT ASSOCIATES
415 Massachusetts Avenue
Indianapolis, IN 46204
www.schmidt-arch.com

Project No. 2017-105.MHS
Project Date 09.06.2018
Produced ATJ

ALLEN T. JACOBSEN REGISTERED No. 10001136 STATE OF INDIANA PROFESSIONAL ENGINEER

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5926 Calumet Avenue
Hammond, IN 46320

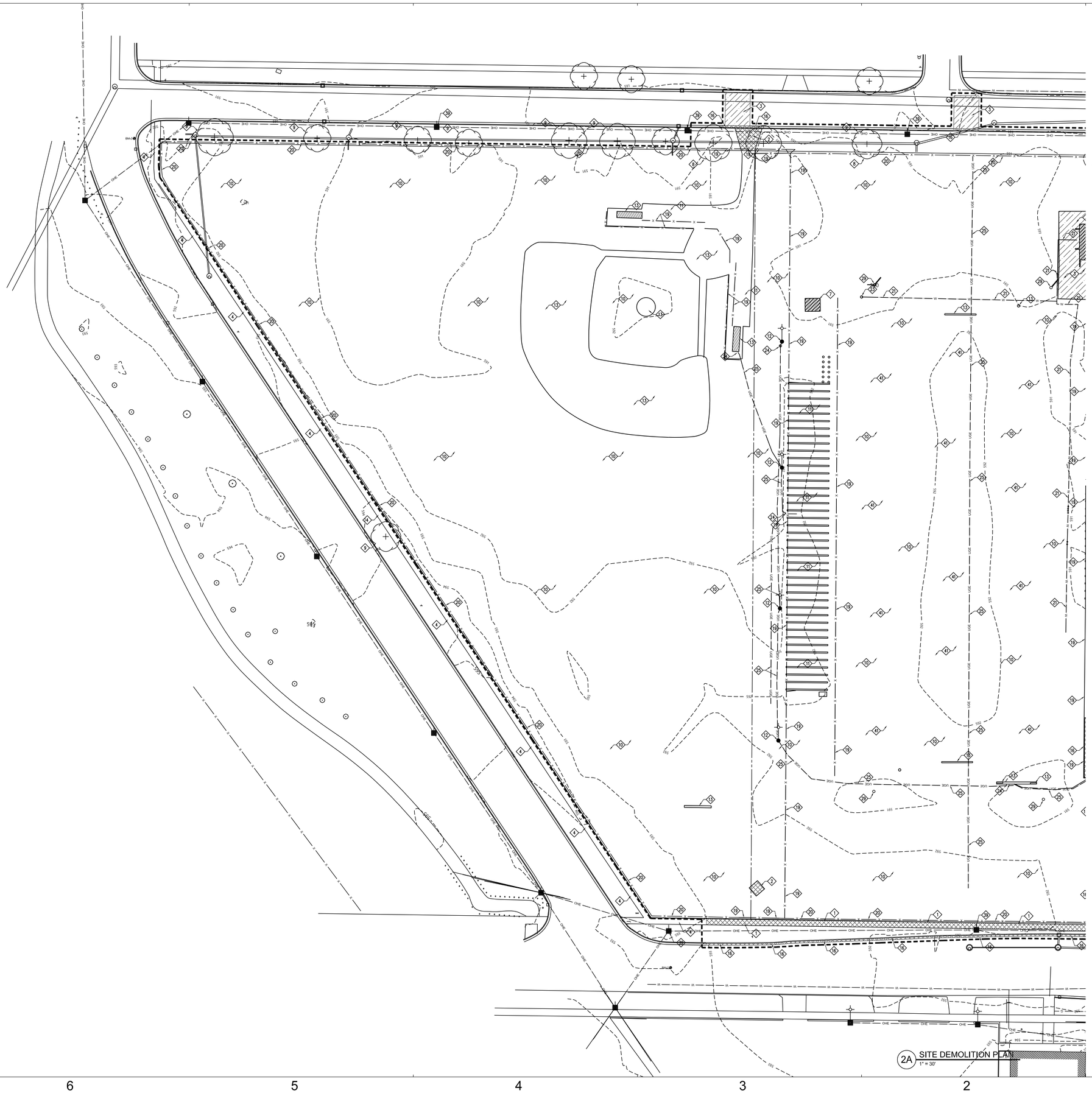
School City of Hammond

School City of Hammond

New Middle / High School for Hammond
BID PACKAGE I

SITE DEMOLITION PLAN - EAST

CD101.1



2A SITE DEMOLITION PLAN
1" = 30'

DEMOLITION LEGEND

- DEMOLISH AND REMOVE BUILDING IN ITS ENTIRETY.
- SAW CUT AND REMOVE CONCRETE.
- SAW CUT AND REMOVE ASPHALT.
- CONSTRUCTION LIMITS LINE

GENERAL NOTES

1. REFERENCE C-001 FOR GENERAL DEMOLITION PLAN NOTES.
2. SEE ELECTRICAL SITE PLAN, FOR ALL ELECTRICAL, PHONE AND TECHNOLOGY DEMOLITION WORK.
3. NOT ALL NOTES MAY APPLY TO THIS SHEET.
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DEMOLITION KEY NOTES

1. REMOVE CONCRETE SIDEWALK.
2. REMOVE CONCRETE PAVEMENT.
3. REMOVE ASPHALT PAVEMENT.
4. CONCRETE SIDEWALK TO REMAIN. REPAIR IF DAMAGED.
5. ASPHALT PAVEMENT TO REMAIN. REPAIR IF DAMAGED.
6. REMOVE SIGN AND POST.
7. DEMOLISH BUILDING IN ITS ENTIRETY & REMOVE ASSOCIATED FOUNDATIONS. CUT & PERMANENTLY CAP ALL UTILITY SERVICE CONNECTIONS.
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9. TREES TO REMAIN. PROTECT DURING CONSTRUCTION.
10. REMOVE ALL TURF AND MISCELLANEOUS PLANTINGS, CLEAR & GRUB.
11. REMOVE & SALVAGE METAL GRANDSTANDS AND PRESSBOX AT THE DIRECTION OF THE OWNER. REMOVE ALL CONCRETE FOOTINGS.
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25. REMOVE ELECTRICAL LINE.
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30. STORM SEWER STRUCTURE TO REMAIN. PROTECT DURING CONSTRUCTION.
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32. GAS LINE TO REMAIN. PROTECT DURING CONSTRUCTION.
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41. REMOVE IRRIGATION SYSTEM.

DEMOLITION NOTES

1. THE OWNER WILL REMOVE ALL MISCELLANEOUS SITE EQUIPMENT TO BE SALVAGED PRIOR TO START OF CONTRUCTION.
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8. FOLLOWING THE COMPLETION OF PROPOSED SITE IMPROVEMENTS AND FOLLOWING THE COMPLETION OF EARTHWORK AS INDICATED ON THE GRADING PLAN, CONTRACTOR SHALL SUPPLY AND INSTALL TOPSOIL FILL IN ALL PROPOSED PLANTING AREAS TO THE GRADES INDICATED ON THE GRADING PLAN, AND IN ACCORDANCE WITH THE EARTHWORK AND LANDSCAPING SPECIFICATIONS.
9. ALL TREES, BRUSH, STUMPS, AND GRUBBING DEBRIS SCHEDULED FOR DEMOLITION SHALL BE REMOVED FROM THE SITE.
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    - 11.1. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LINE LOCATIONS PRIOR TO CONSTRUCTION. CONTACT THE INDIANA UNDERGROUND UTILITY PLANT PROTECTION SERVICE AT 1-800-382-5540 OR DIAL 811 (INDIANA). A PRIVATE UTILITY LOCATION SERVICE MAY BE REQUIRED IN AREAS NOT COVERED BY IUPPS.
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    - 11.3. UNLESS NOTED OTHERWISE, THE CONTRACTOR IS RESPONSIBLE FOR THE RELOCATION OF ALL EXISTING UTILITIES WHICH ARE IN CONFLICT WITH THE PROPOSED SITE IMPROVEMENTS.
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Project No. 2017-105.MHS
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5926 Calumet Avenue
Hammond, IN 46320

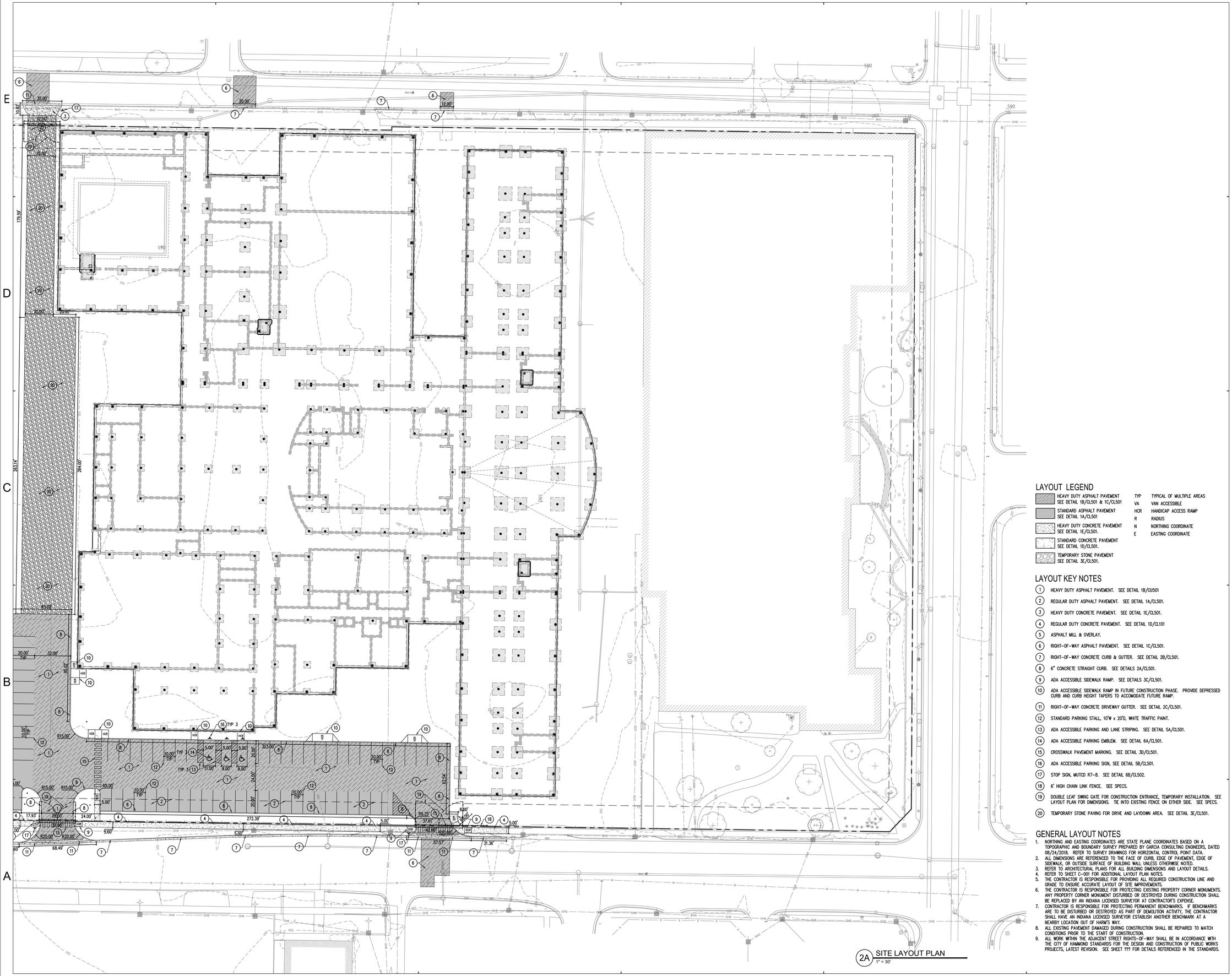
School City of Hammond

New Middle / High School for Hammond
BID PACKAGE I

SITE DEMOLITION PLAN - WEST

CD102.1

M:\2017\2017-105.MHS\05-Models\3-C\CD101-BP1.dwg, CD102-BP1, 9/6/2018 11:52:22 AM



2A SITE LAYOUT PLAN
1" = 30'

LAYOUT LEGEND

- HEAVY DUTY ASPHALT PAVEMENT SEE DETAIL 1B/CL501 & 1C/CL501
- STANDARD ASPHALT PAVEMENT SEE DETAIL 1A/CL501
- HEAVY DUTY CONCRETE PAVEMENT SEE DETAIL 1E/CL501.
- STANDARD CONCRETE PAVEMENT SEE DETAIL 1D/CL501.
- TEMPORARY STONE PAVEMENT SEE DETAIL 3E/CL501.

TYP	TYPICAL OF MULTIPLE AREAS
VA	VAN ACCESSIBLE
HCR	HANDICAP ACCESS RAMP
R	RADIUS
N	NORTHING COORDINATE
E	EASTING COORDINATE

LAYOUT KEY NOTES

1. HEAVY DUTY ASPHALT PAVEMENT. SEE DETAIL 1B/CU501
2. REGULAR DUTY ASPHALT PAVEMENT. SEE DETAIL 1A/CL501.
3. HEAVY DUTY CONCRETE PAVEMENT. SEE DETAIL 1E/CL501.
4. REGULAR DUTY CONCRETE PAVEMENT. SEE DETAIL 1D/CL101
5. ASPHALT MILL & OVERLAY.
6. RIGHT-OF-WAY ASPHALT PAVEMENT. SEE DETAIL 1C/CL501.
7. RIGHT-OF-WAY CONCRETE CURB & GUTTER. SEE DETAIL 2B/CL501.
8. 6" CONCRETE STRAIGHT CURB. SEE DETAILS 2A/CL501.
9. ADA ACCESSIBLE SIDEWALK RAMP. SEE DETAILS 3C/CL501.
10. ADA ACCESSIBLE SIDEWALK RAMP IN FUTURE CONSTRUCTION PHASE. PROVIDE DEPRESSED CURB AND CURB HEIGHT TAPERS TO ACCOMODATE FUTURE RAMP.
11. RIGHT-OF-WAY CONCRETE DRIVEWAY GUTTER. SEE DETAIL 2C/CL501.
12. STANDARD PARKING STALL, 10'W x 20'D, WHITE TRAFFIC PAINT.
13. ADA ACCESSIBLE PARKING AND LANE STRIPING. SEE DETAIL 5A/CL501.
14. ADA ACCESSIBLE PARKING EMBLEM. SEE DETAIL 6A/CL501.
15. CROSSWALK PAVEMENT MARKING. SEE DETAIL 3D/CL501.
16. ADA ACCESSIBLE PARKING SIGN, SEE DETAIL 5B/CL501.
17. STOP SIGN, MUTCD R7-8. SEE DETAIL 6B/CL502.
18. 6' HIGH CHAIN LINK FENCE. SEE SPECS.
19. DOUBLE LEAF SWING GATE FOR CONSTRUCTION ENTRANCE, TEMPORARY INSTALLATION. SEE LAYOUT PLAN FOR DIMENSIONS. TIE INTO EXISTING FENCE ON EITHER SIDE. SEE SPECS.
20. TEMPORARY STONE PAVING FOR DRIVE AND LAYDOWN AREA. SEE DETAIL 3E/CL501.

GENERAL LAYOUT NOTES

1. NORTHING AND EASTING COORDINATES ARE STATE PLANE COORDINATES BASED ON A TOPOGRAPHIC AND BOUNDARY SURVEY PREPARED BY GARCIA CONSULTING ENGINEERS, DATED 08/24/2018. REFER TO SURVEY DRAWINGS FOR HORIZONTAL CONTROL POINT DATA.
2. ALL DIMENSIONS ARE REFERENCED TO THE FACE OF CURB, EDGE OF PAVEMENT, EDGE OF SIDEWALK, OR OUTSIDE SURFACE OF BUILDING WALL UNLESS OTHERWISE NOTED.
3. REFER TO ARCHITECTURAL PLANS FOR ALL BUILDING DIMENSIONS AND LAYOUT DETAILS.
4. REFER TO SHEET C-001 FOR ADDITIONAL LAYOUT PLAN NOTES.
5. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL REQUIRED CONSTRUCTION LINE AND GRADE TO ENSURE ACCURATE LAYOUT OF SITE IMPROVEMENTS.
6. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING EXISTING PROPERTY CORNER MONUMENTS. ANY PROPERTY CORNER MONUMENT DISTURBED OR DESTROYED DURING CONSTRUCTION SHALL BE REPLACED BY AN INDIANA LICENSED SURVEYOR AT CONTRACTOR'S EXPENSE.
7. CONTRACTOR IS RESPONSIBLE FOR PROTECTING PERMANENT BENCHMARKS. IF BENCHMARKS ARE TO BE DISTURBED OR DESTROYED AS PART OF DEMOLITION ACTIVITY, THE CONTRACTOR SHALL HAVE AN INDIANA LICENSED SURVEYOR ESTABLISH ANOTHER BENCHMARK AT A NEARBY LOCATION OUT OF HARM'S WAY.
8. ALL EXISTING PAVEMENT DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED TO MATCH CONDITIONS PRIOR TO THE START OF CONSTRUCTION.
9. ALL WORK WITHIN THE ADJACENT STREET RIGHTS-OF-WAY SHALL BE IN ACCORDANCE WITH THE CITY OF HAMMOND STANDARDS FOR THE DESIGN AND CONSTRUCTION OF PUBLIC WORKS PROJECTS, LATEST REVISION. SEE SHEET ??? FOR DETAILS REFERENCED IN THE STANDARDS.

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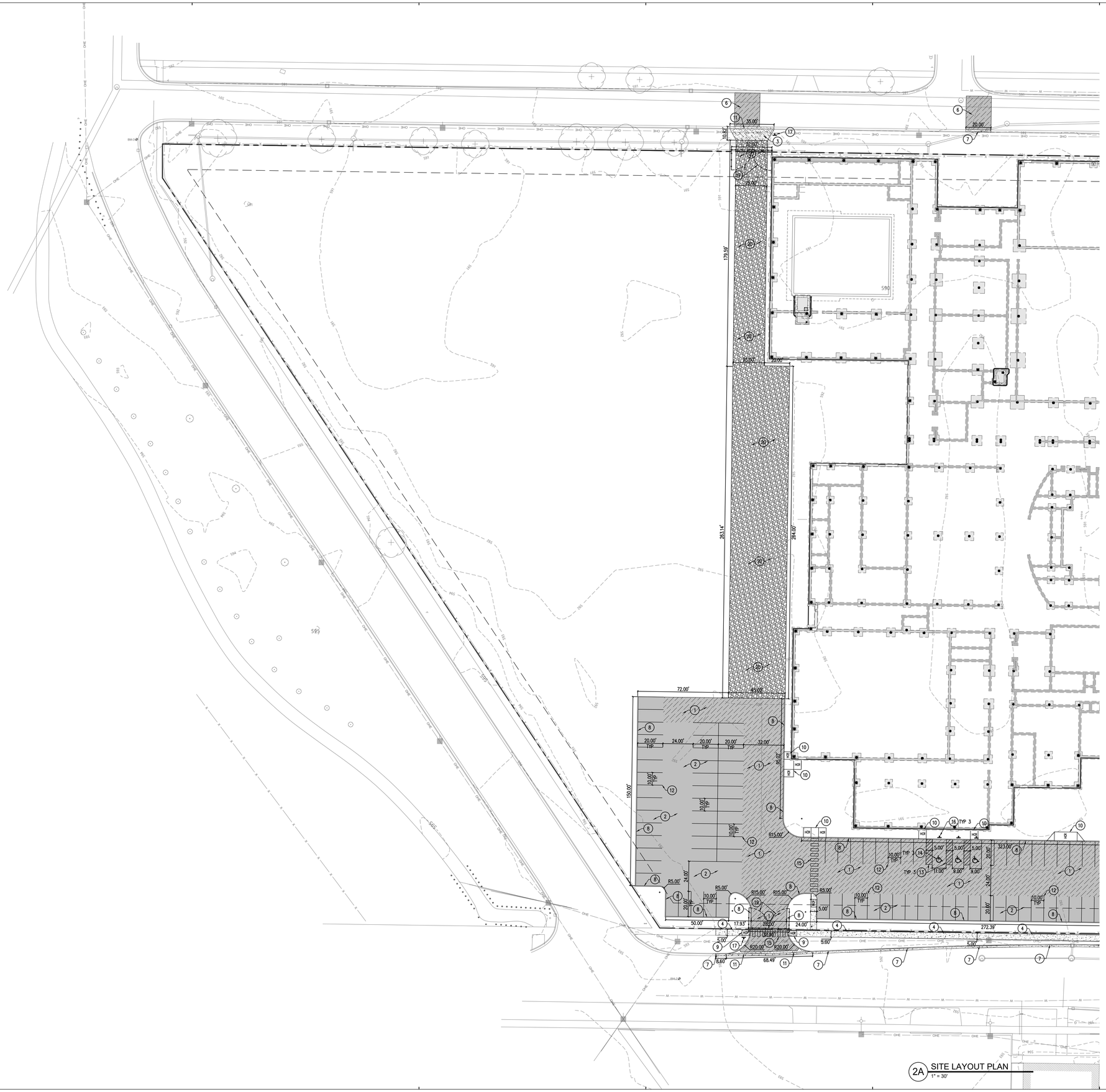
5926 Calumet Avenue
Hammond, IN 46320

School City of Hammond

New Middle / High School for Hammond
BID PACKAGE I

SITE LAYOUT PLAN - EAST

CL101.1



2A SITE LAYOUT PLAN
1" = 30'

LAYOUT LEGEND

- HEAVY DUTY ASPHALT PAVEMENT SEE DETAIL 1B/CL501 & 1C/CL501
- STANDARD ASPHALT PAVEMENT SEE DETAIL 1A/CL501
- HEAVY DUTY CONCRETE PAVEMENT SEE DETAIL 1E/CL501.
- STANDARD CONCRETE PAVEMENT SEE DETAIL 1D/CL501.
- TEMPORARY STONE PAVEMENT SEE DETAIL 3E/CL501.

TYP	TYPICAL OF MULTIPLE AREAS
VA	VAN ACCESSIBLE
HCR	HANDICAP ACCESS RAMP
R	RADIUS
N	NORTHING COORDINATE
E	EASTING COORDINATE

LAYOUT KEY NOTES

1. HEAVY DUTY ASPHALT PAVEMENT. SEE DETAIL 1B/CU501
2. REGULAR DUTY ASPHALT PAVEMENT. SEE DETAIL 1A/CL501.
3. HEAVY DUTY CONCRETE PAVEMENT. SEE DETAIL 1E/CL501.
4. REGULAR DUTY CONCRETE PAVEMENT. SEE DETAIL 1D/CL101
5. ASPHALT MILL & OVERLAY.
6. RIGHT-OF-WAY ASPHALT PAVEMENT. SEE DETAIL 1C/CL501.
7. RIGHT-OF-WAY CONCRETE CURB & GUTTER. SEE DETAIL 2B/CL501.
8. 6" CONCRETE STRAIGHT CURB. SEE DETAILS 2A/CL501.
9. ADA ACCESSIBLE SIDEWALK RAMP. SEE DETAILS 3C/CL501.
10. ADA ACCESSIBLE SIDEWALK RAMP IN FUTURE CONSTRUCTION PHASE. PROVIDE DEPRESSED CURB AND CURB HEIGHT TAPERS TO ACCOMODATE FUTURE RAMP.
11. RIGHT-OF-WAY CONCRETE DRIVEWAY GUTTER. SEE DETAIL 2C/CL501.
12. STANDARD PARKING STALL, 10'W x 20'D, WHITE TRAFFIC PAINT.
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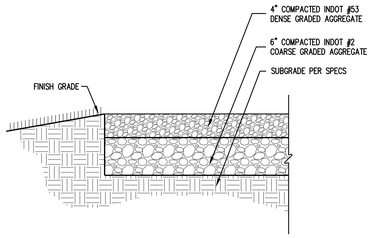
School City of Hammond

School City of Hammond

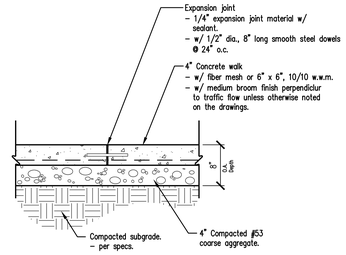
New Middle / High School for Hammond
BID PACKAGE I

SITE LAYOUT PLAN - WEST

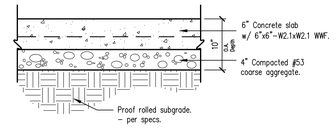
CL102.1



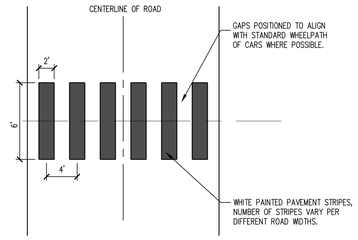
3E Heavy Duty Stone Pavement
Scale 1"=1'-0"



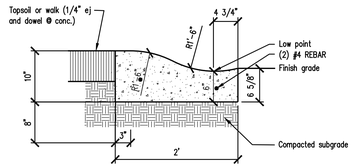
2E Concrete Paving & Expansion Joint Detail
Scale: 1" = 1'-0"



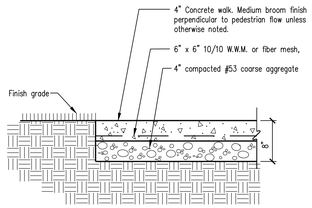
1E Heavy Duty Concrete Paving Detail
Scale: 1" = 1'-0"



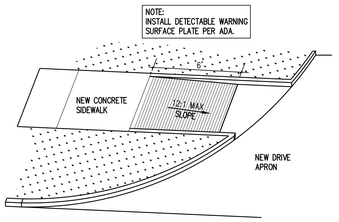
3D Crosswalk Detail
Scale: 1/8"=1'-0"



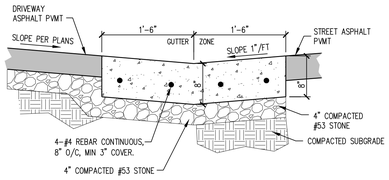
2D Rolled Curb Section
Scale 1"=1'-0"



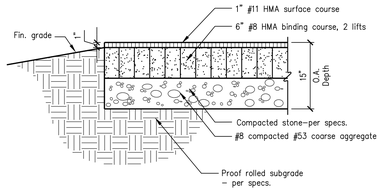
1D Standard Concrete Paving
Scale 1"=1'-0"



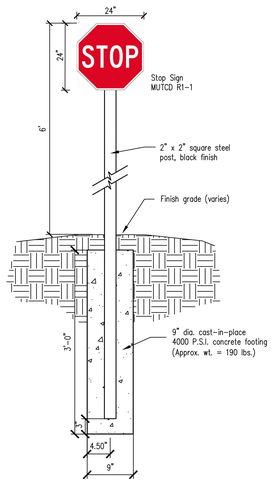
3C Accessible Ramp - RoW at Drive Apron
Not to Scale



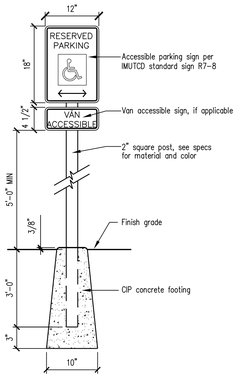
2C Street Valley Gutter
Scale 1" = 1'-0"



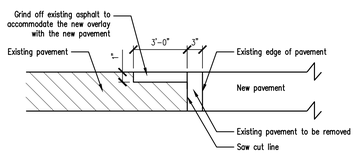
1C Right of Way Asphalt Paving
Scale: 1" = 1'-0"



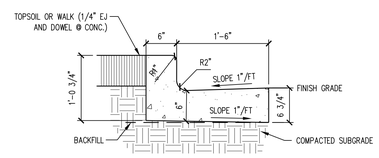
6B Standard MUTCD Signage Detail
Scale:1"=1'-0"



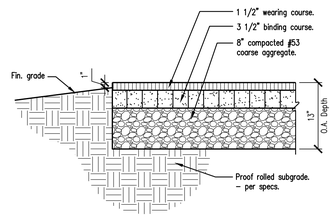
5B Accessible Parking Sign Detail
Not To Scale



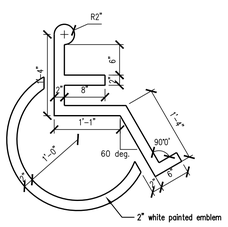
3B Saw Cut and Milling Detail
Scale: N.T.S.



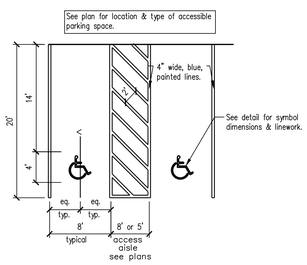
2B Curb and Gutter Detail
Scale 1" = 1'-0"



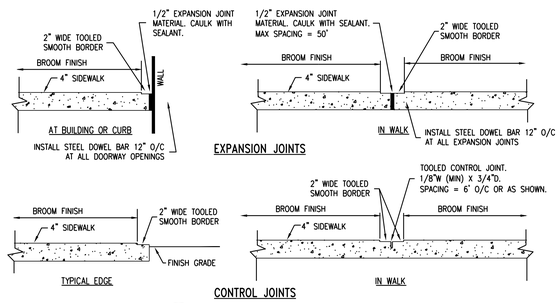
1B Heavy Duty Asphalt Paving Detail
Scale: 1" = 1'-0"



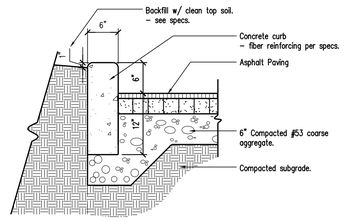
6A Accessible Emblem for Parking Stall
Scale: 1" = 1'-0"



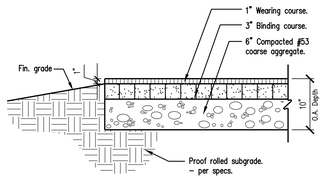
5A Accessible Parking Space-90°
Scale: 1/8" = 1'-0"



3A Concrete Finishing Detail
Scale: 1" =1'-0"



2A Straight Curb Detail
Scale: 1" = 1'-0"



1A Standard Asphalt Paving Detail
Scale: 1" = 1'-0"

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N

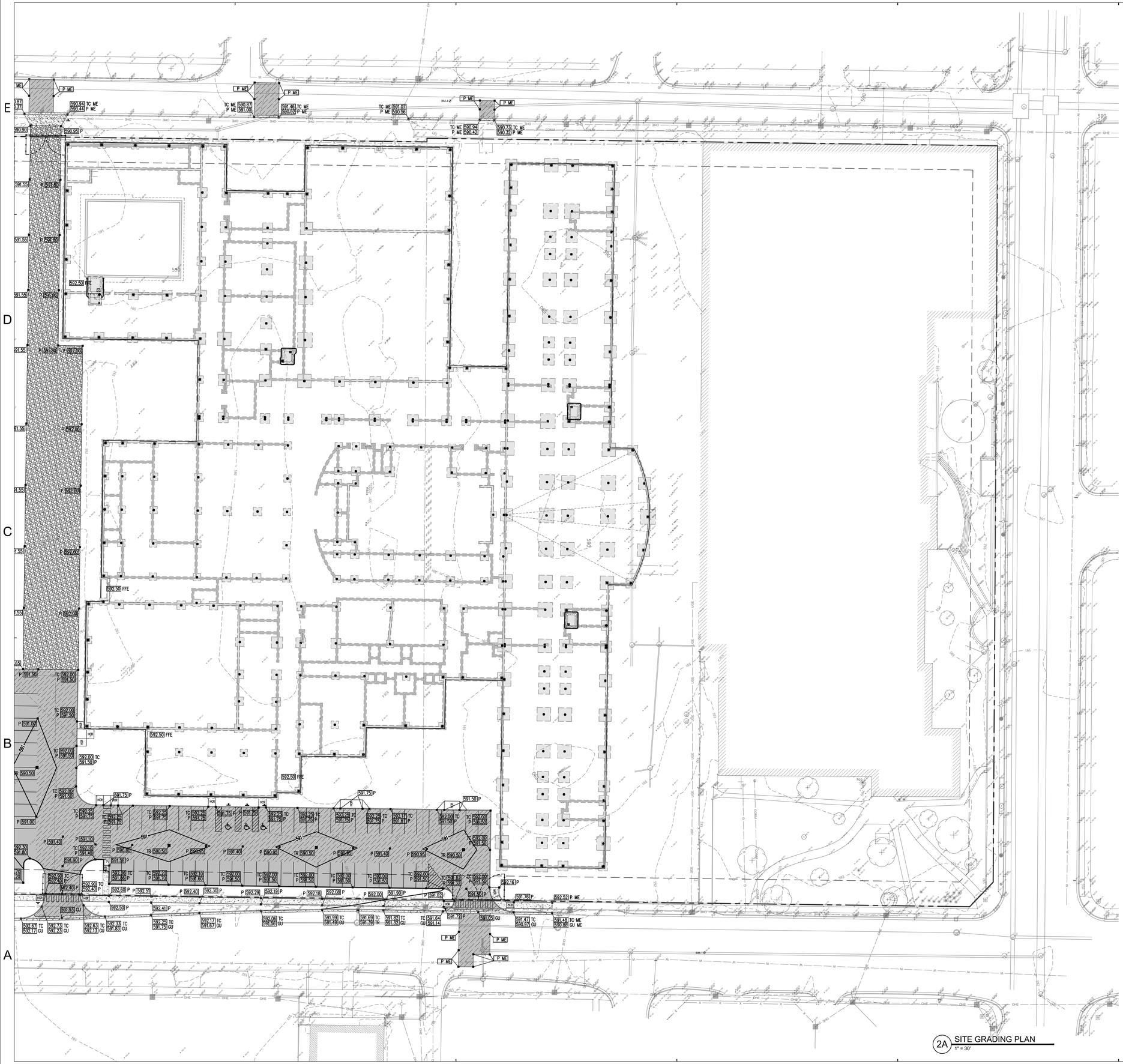
School City of Hammond

School City of Hammond

New Middle / High School for Hammond
BID PACKAGE I

SITE LAYOUT DETAILS

CL501.1



2A SITE GRADING PLAN
1" = 30'

GRADING LEGEND

— — 828 — —	EXISTING CONTOUR LINE
——828——	PROPOSED CONTOUR LINE
1000.00	PROPOSED ELEVATION
1000.00 EX	EXISTING ELEVATION
1000.00 ME	MATCH EXISTING ELEVATION
1000.00 TC / 1000.00 P	TOP OF CURB ELEVATION / PAVEMENT ELEVATION
1000.00 P	PAVEMENT ELEVATION
1000.00 GU	GUTTER ELEVATION
1000.00 G	GROUND ELEVATION
1000.00 FL	FLOWLINE ELEVATION
1000.00 TW	TOP OF WALL ELEVATION
1000.00 TSW	TOP OF SEAT WALL ELEVATION
1000.00 PAD	BUILDING PAD ELEVATION
1004.50 FFE	FINISH FLOOR ELEVATION

GENERAL GRADING NOTES

1. BENCHMARK INFORMATION (NAVD88 DATUM). SEE SURVEY SHEETS FOR ADDITIONAL HORIZONTAL AND VERTICAL CONTROL INFORMATION.

   BM-1
   MAG NAIL LOCATED IN THE CENTERLINE OF HIGHLAND STREET, APPROXIMATELY 60 FEET EAST OF THE INTERSECTION OF HIGHLAND STREET AND ERIE STREET.
   ELEV = 591.68

   BM-2
   MAG NAIL LOCATED IN THE CENTERLINE OF HIGHLAND STREET, APPROXIMATELY 48 FEET EAST OF THE INTERSECTION OF HIGHLAND STREET AND SOHL AVENUE.
   ELEV = 592.99

   BM-3
   MAG NAIL LOCATED AT THE SOUTHEAST CORNER OF THE INTERSECTION OF SOHL AVENUE AND EATON STREET
   ELEV = 591.71

   BM-4
   MAG NAIL LOCATED IN THE CENTERLINE OF EATON STREET, APPROXIMATELY 153 FEET WEST OF THE INTERSECTION OF EATON STREET AND ERIE STREET.
   ELEV = 590.64

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3. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE ACCURACY OF SITE CONDITIONS AT THE TIME THIS PROJECT IS BID.
4. THE FINISH FLOOR ELEVATION OF THE PROPOSED BUILDING IS 592.50 FT THROUGHOUT THE ENTIRE BUILDING FOOTPRINT. REFERENCE ELEVATIONS INDICATED ON STRUCTURAL AND PLUMBING DRAWINGS ARE BASED ON A FINISH FLOOR ELEVATION OF 0.00 FT.

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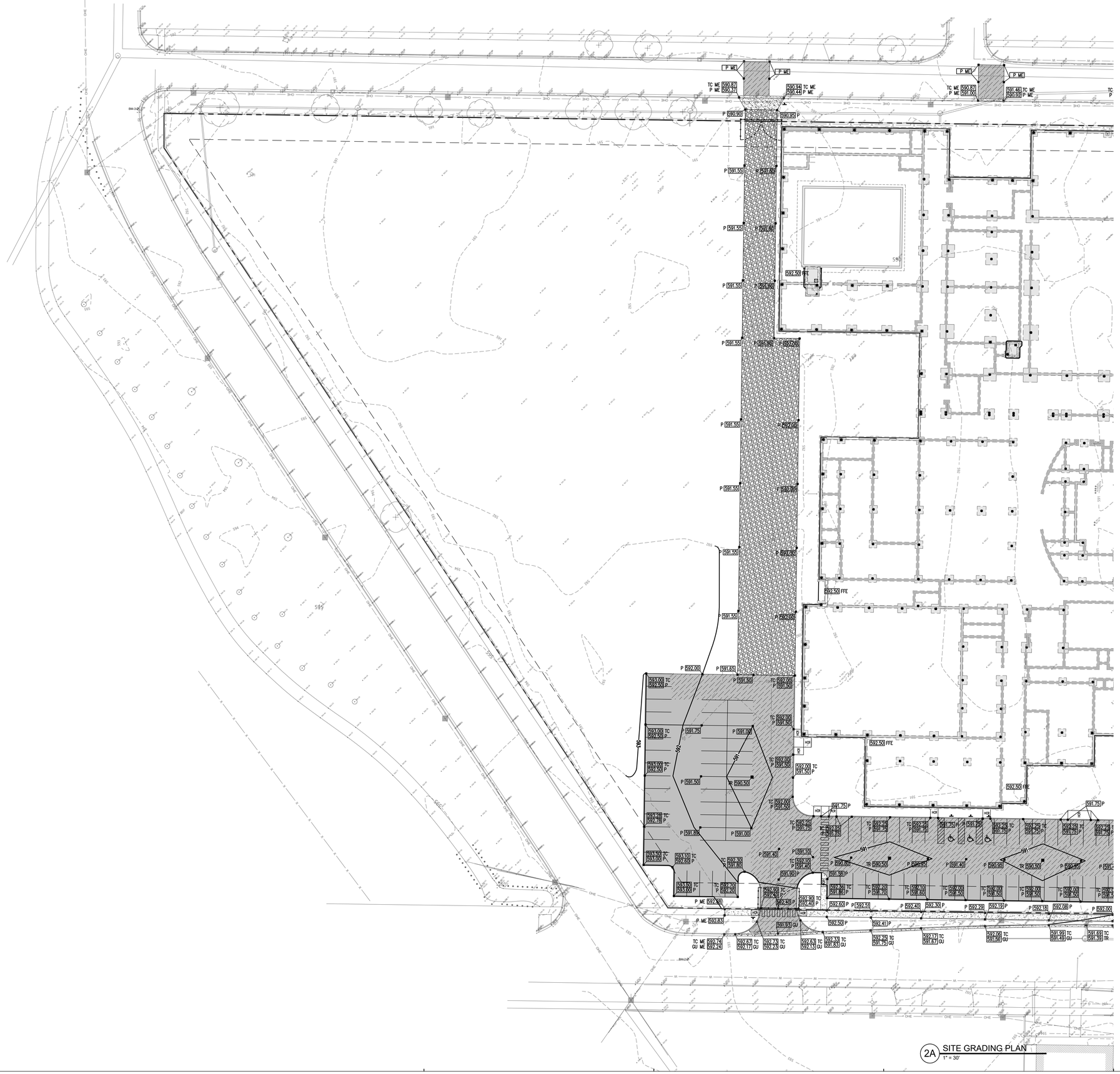
BID PACKAGE I

SITE GRADING PLAN - EAST

CG101.1



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1" = 30'

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828	PROPOSED CONTOUR LINE
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1000.00 GU	GUTTER ELEVATION
1000.00 G	GROUND ELEVATION
1000.00 FL	FLOWLINE ELEVATION
1000.00 TW	TOP OF WALL ELEVATION
1000.00 TSW	TOP OF SEAT WALL ELEVATION
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1004.50 FFE	FINISH FLOOR ELEVATION

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   ELEV = 591.68

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   MAG NAIL LOCATED IN THE CENTERLINE OF HIGHLAND STREET, APPROXIMATELY 48 FEET EAST OF THE INTERSECTION OF HIGHLAND STREET AND SOHL AVENUE.
   ELEV = 592.99

   BM-3
   MAG NAIL LOCATED AT THE SOUTHEAST CORNER OF THE INTERSECTION OF SOHL AVENUE AND EATON STREET
   ELEV = 591.71

   BM-4
   MAG NAIL LOCATED IN THE CENTERLINE OF EATON STREET, APPROXIMATELY 153 FEET WEST OF THE INTERSECTION OF EATON STREET AND ERIE STREET.
   ELEV = 590.64

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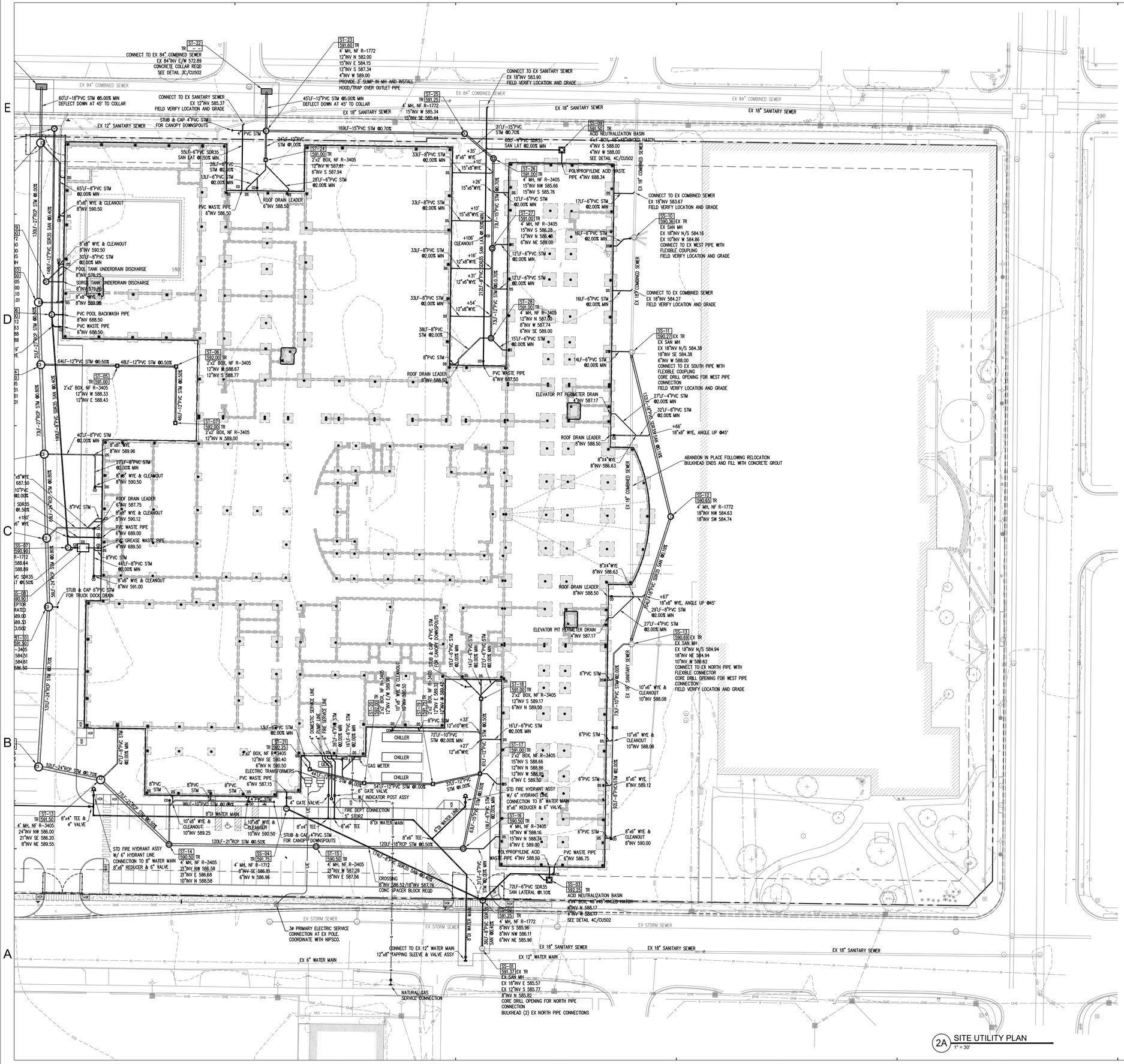
SITE GRADING PLAN - WEST

CG102.1



2A SITE UTILITY PLAN
1" = 30'

UTILITY LEGEND

- PROPOSED WATER LINE
- EXISTING WATER LINE
- PROPOSED SANITARY SEWER
- EXISTING SANITARY SEWER
- PROPOSED STORM SEWER/DRAIN
- EXISTING STORM SEWER/DRAIN

DS	DOWNSPOUT
CO	CLEAN OUT
WV	WATER VALVE
PIV	POST INDICATOR VALVE
INV	PIPE INVERT
ALT	BID ALTERNATE
TYP	TYPICAL OF MULTIPLE LOCATIONS

ST-01 713.00 TR MH 4A INV W 709.79 — PROPOSED STORM MANHOLE SEE DETAIL 1A/CU501, SHEETS CR110-111

ST-02 713.00 TR MH 4A INV W 709.79 — PROPOSED STORM MANHOLE/INLET SEE DETAIL 1A/CU501, SHEETS CR110-111

ST-03 713.00 TR 2x2 BOX INV N 710.00 — PROPOSED CATCH BASIN SEE DETAIL 1C/CU501, SHEETS CR110-111

SS-2 729.25 TR MH 4A INV S 721.00 — PROPOSED SANITARY MANHOLE SEE SHEETS CR108-109.

GENERAL UTILITY NOTES

1. ALL SANITARY SEWER IMPROVEMENTS SHALL BE INSTALLED IN ACCORDANCE WITH THE CITY OF HAMMOND SEWER DESIGN GUIDANCE MANUAL.
2. WHERE A NEW SANITARY SEWER IS CONNECTED TO AN EXISTING MANHOLE, THAT MANHOLE SHALL BE REHABILITATED TO CURRENT DESIGN STANDARDS OF CITY OR UTILITY HAVING JURISDICTION. THIS REQUIREMENT SHALL INCLUDE REHABILITATING FLOW CHANNEL/BENCHWALLS, SEALING CRACKS, CHIMNEY SEAL INSTALLATION, AS WELL AS OTHER MEASURES TO REDUCE THE AMOUNT OF INFILTRATION AND INFLOW TO REQUIRED LEVELS.
3. ALL LOCATIONS WHERE OTHER UTILITIES CROSS THE PROPOSED SANITARY SEWER WITH 18" VERTICAL CLEARANCE OR LESS REQUIRE THE INSTALLATION OF A CONCRETE CRADLE OR OTHER MEANS OF STRUCTURAL SUPPORT.
4. ALL SANITARY LATERALS AND FORCE MAINS REQUIRE THE INSTALLATION OF A TRACER WIRE ON TOP OF THE PIPE FROM THE SEWER MAIN TO THE CLEAN OUT.
5. ALL LIDS, CASTINGS, GRATES, BOXES, AND HATCHES ASSOCIATED WITH EXISTING UTILITY STRUCTURES THAT ARE NOT INDICATED FOR MODIFICATION OR REMOVAL SHALL BE MAINTAINED AND PROTECTED DURING CONSTRUCTION.
6. COMPACTED GRANULAR BACKFILL IS REQUIRED FOR ALL UTILITY TRENCHES LOCATED UNDER PAVED AREAS. SEE SPECIFICATIONS.
7. ALL WATER SYSTEM AND FIRE PROTECTION SYSTEM IMPROVEMENTS SHALL BE INSTALLED IN ACCORDANCE WITH THE CITY OF HAMMOND STANDARD SPECIFICATIONS AND DETAILS.
8. A MINIMUM OF 60" OF COVER SHALL BE PROVIDED OVER ALL EXTERIOR WATER PIPE, VALVES, AND FITTINGS.
9. PIPE LENGTHS INDICATED ON THE DRAWINGS ARE FOR HYDRAULIC CALCULATION PURPOSES ONLY. CONTRACTOR IS RESPONSIBLE FOR FURNISHING THE AMOUNT OF PIPE MATERIALS NECESSARY FOR A COMPLETE INSTALLATION.
10. ALL STORM INLET CASTINGS SHALL BE PERMANENTLY STAMPED WITH NOTATION "DUMP NO WASTE, DRAINS TO RIVER".
11. ALL STORM SEWERS, STRUCTURES, AND LATERALS WITHIN THE SUBJECT SITE SHALL BE PRIVATELY OWNED AND MAINTAINED.
12. NO SUBSTITUTION OF BMP HYDRODYNAMIC SEPARATOR STRUCTURE OR MANUFACTURER IS PERMITTED.
13. INSTALL 18"W x 18"L x 4"T CONCRETE COLLAR AROUND ALL CLEANOUTS, FIRE HYDRANTS, VALVE BOXES, INDICATOR POSTS, AND YARD HYDRANTS THAT ARE LOCATED IN YARD AREAS. COLLAR TO BE SET 1" ABOVE ADJACENT GROUND GRADES.
14. WHERE PROPOSED UNDERGROUND UTILITIES ARE IN CONFLICT WITH EXISTING UNDERGROUND UTILITIES, THE CONTRACTOR IS RESPONSIBLE FOR RELOCATING THE EXISTING UTILITIES AROUND THE PROPOSED WORK.
15. WHERE CONNECTIONS ARE MADE TO EXISTING MANHOLES OR INLET STRUCTURES, THOSE STRUCTURES SHALL BE REHABILITATED OR REPLACED TO THOSE MINIMUM STANDARDS OUTLINED IN THE CITY OF HAMMOND STANDARD SPECIFICATIONS AND DETAILS, LATEST EDITION. THE REHABILITATION SHALL INCLUDE THE INSTALLATION OF BENCHWALLS, AS WELL AS PRESCRIBED MEASURES TO ELIMINATE THE POTENTIAL FOR MIGRATION OF BACKFILL MATERIALS INTO THE STORMWATER SYSTEM.
16. ALL PROPOSED STORM SEWER AND DRAINAGE APPURTENANCES SHALL BE IN CONFORMANCE WITH THE CITY OF HAMMOND STANDARD SPECIFICATIONS AND DETAILS, LATEST EDITION. DISCREPANCIES BETWEEN THE PLANS AND THE CITY STANDARD DETAILS SHALL NOT ALLEVIATE THE CONTRACTOR FROM ADHERING TO THE REQUIREMENTS AS SET FORTH IN THE CITY STANDARD DETAILS.
17. UTILITIES SERVING THE EXISTING HANNOMD HIGH SCHOOL BUILDING SHALL REMAIN IN SERVICE UNTIL THE NEW BUILDING IS OCCUPIED. EXISTING UTILITIES SHALL THEN BE SHUTOFF, PERMANENTLY CAPPED, AND EITHER REMOVED OR ABANDONED ON PLACE DEPENDING ON LOCATION. ALL UNDERGROUND UTILITIES ABANDONED IN PLACE SHALL BE FILLED WITH LEAN CONCRETE GROUT AND ACCURATELY INDICATED ON THE AS-BUILT DRAWINGS.

SCHMIDT ASSOCIATES
415 Massachusetts Avenue
Indianapolis, IN 46204
www.schmidt-arch.com

Project No.	2017-105.MHS
Project Date	09.06.2018
Produced	ATJ

ALLEN T. JACOBSEN REGISTERED NO. 10001136 STATE OF INDIANA PROFESSIONAL ENGINEER

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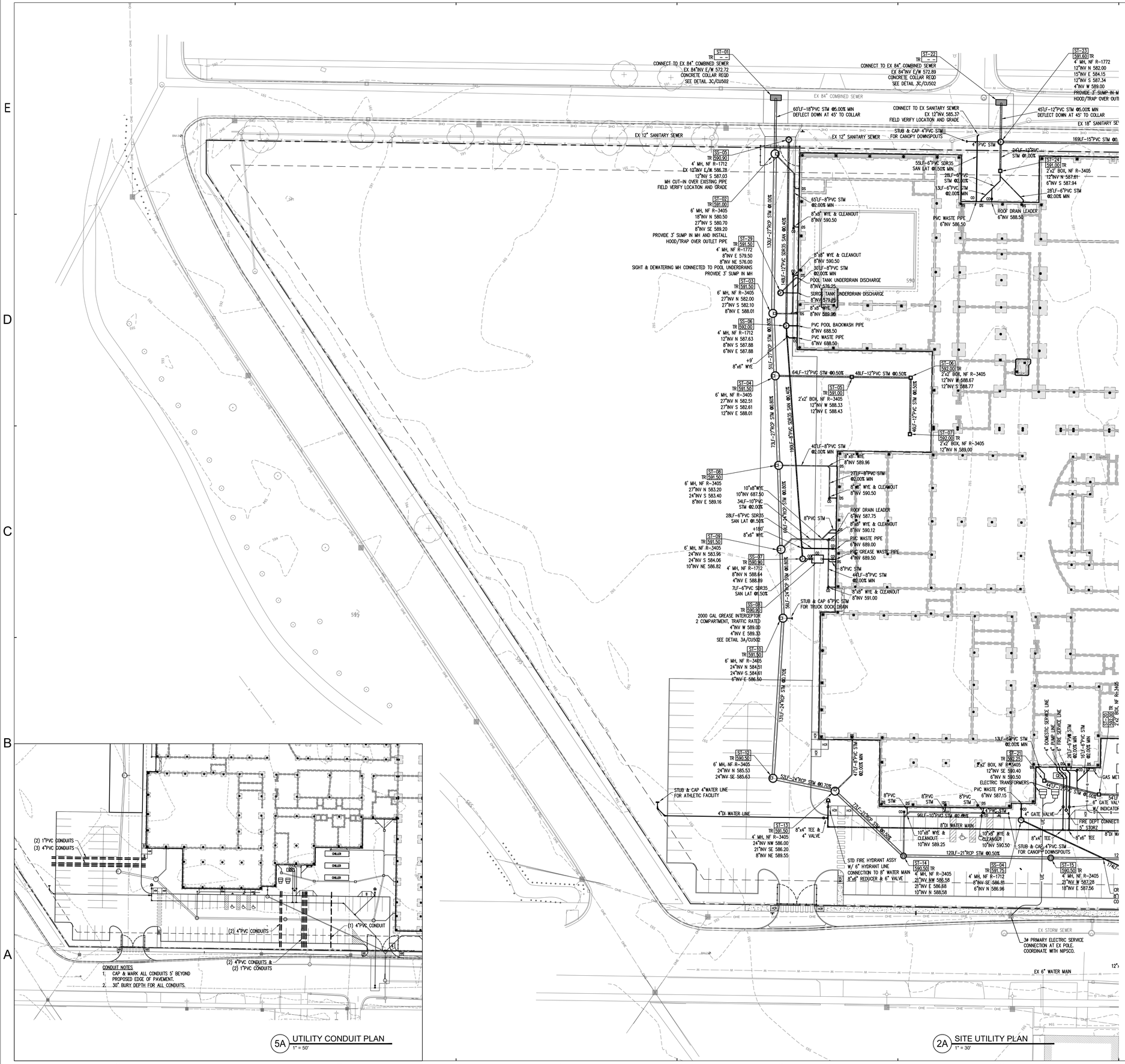
5926 Calumet Avenue
Hammond, IN 46320

School City of Hammond

New Middle / High School for Hammond
BID PACKAGE I

SITE UTILITY PLAN - EAST

CU101.1



2A SITE UTILITY PLAN
1" = 30'

5A UTILITY CONDUIT PLAN
1" = 50'

UTILITY LEGEND

- PROPOSED WATER LINE
- EXISTING WATER LINE
- PROPOSED SANITARY SEWER
- EXISTING SANITARY SEWER
- PROPOSED STORM SEWER/DRAIN
- EXISTING STORM SEWER/DRAIN

DS	DOWNSPOUT
CO	CLEAN OUT
WV	WATER VALVE
PIV	POST INDICATOR VALVE
INV	PIPE INVERT
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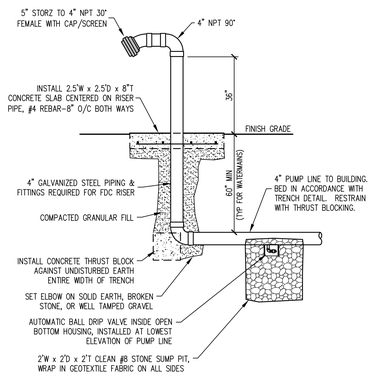
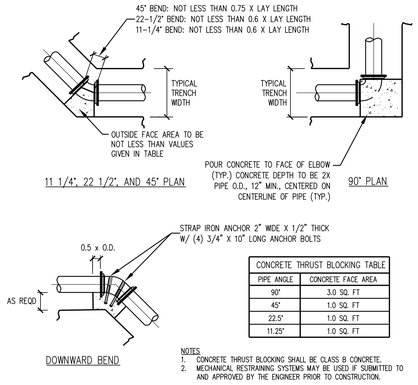
New Middle / High School for Hammond
BID PACKAGE I

SITE UTILITY PLAN - WEST

CU102.1



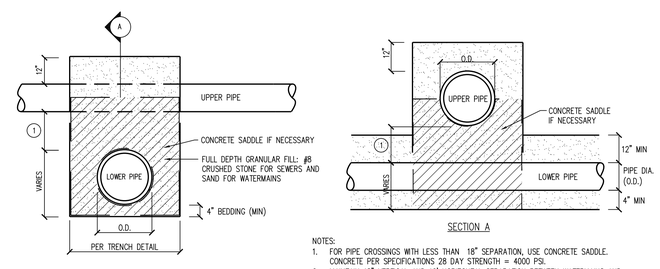
6E FIRE DEPARTMENT CONNECTION - STORZ
NOT TO SCALE



CONCRETE THRUST BLOCKING TABLE	
PIPE ANGLE	CONCRETE FACE AREA
90°	3.0 SQ. FT
45°	1.0 SQ. FT
22.5°	1.0 SQ. FT
11.25°	1.0 SQ. FT

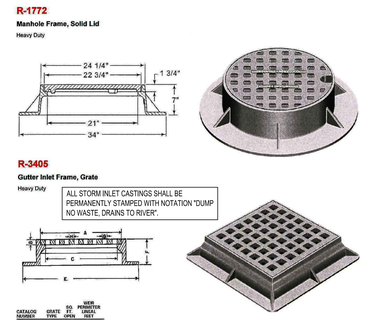
NOTES
1. CONCRETE THRUST BLOCKING SHALL BE CLASS B CONCRETE.
2. MECHANICAL RESTRAINING SYSTEMS MAY BE USED IF SUBMITTED TO AND APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION.

4D WATER MAIN THRUST BLOCK DETAILS
NOT TO SCALE

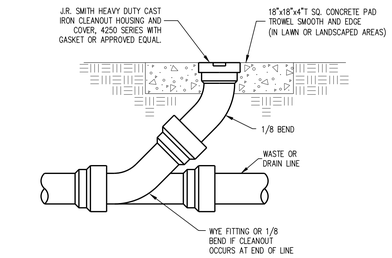


NOTES:
1. FOR PIPE CROSSINGS WITH LESS THAN 18" SEPARATION, USE CONCRETE SADDLE. CONCRETE PER SPECIFICATIONS 28 DAY STRENGTH = 4000 PSI.
2. MAINTAIN 18" VERTICAL AND 10' HORIZONTAL SEPARATION BETWEEN WATERMAINS AND SEWERS. WHEN THIS IS NOT POSSIBLE, THE SEWER PIPE SHALL BE PRESSURE RATED FOR AT LEAST ONE LENGTH OF PIPE. PIPE SELECTION IS SUBJECT TO ENGINEER'S APPROVAL.
3. IN ALL LOCATIONS WHERE GAS PIPING CROSSES BENEATH SEWER PIPING, THE GAS PIPING SHALL BE SLEEVED WITH STEEL PIPE, FOR A MINIMUM OF 20'. NO JOINTS IN THE STEEL SLEEVE SHALL BE LOCATED BELOW THE SEWER PIPE.

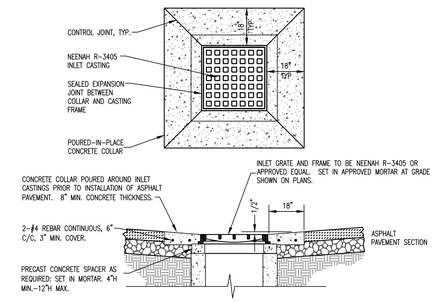
3C UTILITY CROSSING DETAIL
NOT TO SCALE



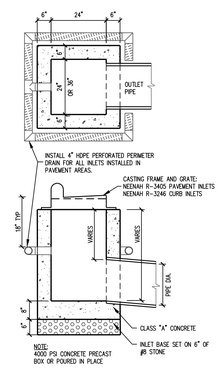
2D STORM SYSTEM CASTINGS
NOT TO SCALE



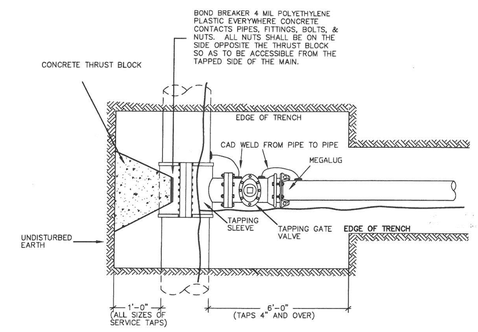
1E EXTERIOR CLEANOUT DETAIL
NOT TO SCALE



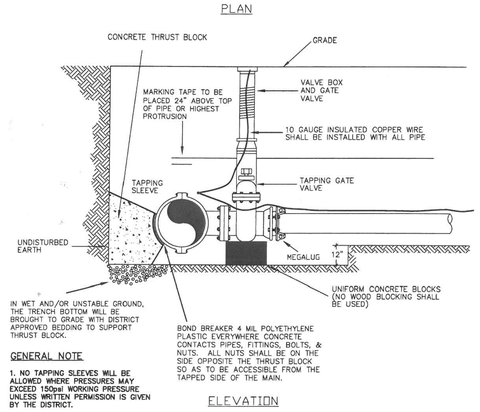
1D PAVEMENT INLET CONCRETE COLLAR
NOT TO SCALE



1C BOX INLET DETAIL
NOT TO SCALE



PLAN

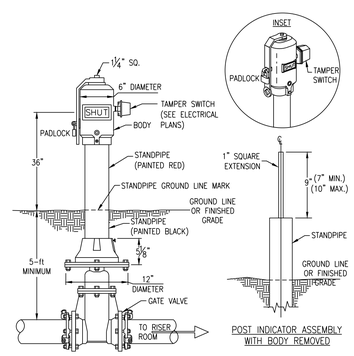


GENERAL NOTE

1. NO TAPPING SLEEVES WILL BE ALLOWED WHERE PRESSURES MAY EXCEED 150psi WORKING PRESSURE UNLESS WRITTEN PERMISSION IS GIVEN BY THE DISTRICT.

ELEVATION

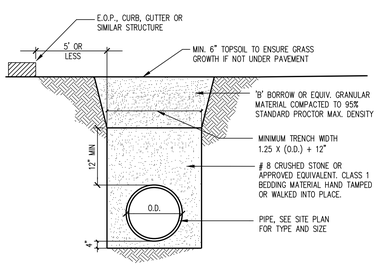
6A WATER MAIN TAPPING DETAIL
NOT TO SCALE



POST INDICATOR ASSEMBLY WITH BODY REMOVED

FIELD ADJUSTMENT INSTRUCTIONS
1. REMOVE THE BODY FROM THE TOP OF THE INDICATOR POST ASSEMBLY.
2. CUT THE REQUIRED LENGTH OFF THE BOTTOM OF THE STANDPIPE FOR THE GROUND LINE TO MATCH UP WITH STANDPIPE GROUND LINE MARK.
3. CUT THE 1" SQ. EXTENSION AT A DISTANCE OF 9" ABOVE THE TOP OF THE STANDPIPE.
4. SET THE "OPEN" AND "SHUT" TARGETS FOR THE APPROPRIATE VALVE SIZE.
5. RE-ATTACH THE BODY TO THE TOP OF THE INDICATOR POST ASSEMBLY.
6. ALL POST INDICATOR VALVES SHALL BE INSTALLED WITH AN ELECTRONIC UL LISTED TAMPER SWITCH.
7. THERE SHALL BE 36" OF UNOBSTRUCTED CLEARANCE AROUND THE PERIMETER OF ALL POST INDICATOR VALVES.
8. POST INDICATOR VALVE SHALL BE LOCATED AT A MINIMUM 5-ft FROM BUILDING.

4B POST INDICATOR VALVE ASSEMBLY
NOT TO SCALE



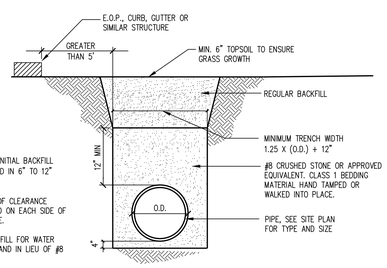
WITHIN 5' OF EDGE OF PAVEMENT

NOTES:

ALL BEDDING AND INITIAL BACKFILL SHALL BE INSTALLED IN 6" TO 12" BALANCED LIFTS.

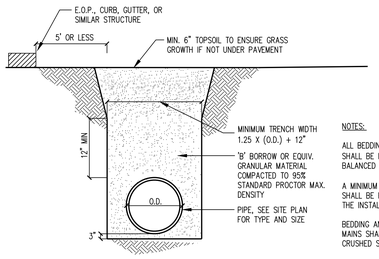
A MINIMUM OF 9" OF CLEARANCE SHALL BE PROVIDED ON EACH SIDE OF THE INSTALLED PIPE.

BEDDING AND BACKFILL FOR WATER MAINS SHALL BE SAND IN LIEU OF #8 CRUSHED STONE.



GREATER THAN 5' FROM EDGE OF PAVEMENT

3B FLEXIBLE PIPE BEDDING SECTION
NOT TO SCALE



WITHIN 5' OF EDGE OF PAVEMENT

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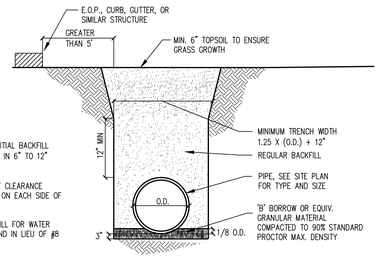
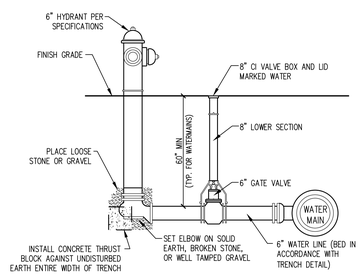
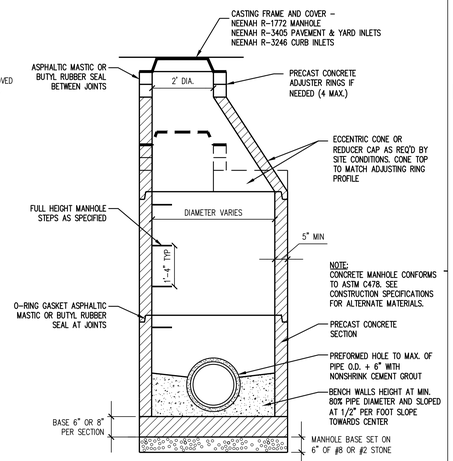


GREATER THAN 5' FROM EDGE OF PAVEMENT

3A RIGID PIPE BEDDING SECTION
NOT TO SCALE



4A FIRE HYDRANT ASSEMBLY DETAIL
NOT TO SCALE



NOTE:
MANHOLE DETAIL IS TYPICAL FOR SANITARY AND STORM MANHOLES, EXCEPT:

1. FOR SANITARY MANHOLE ADJUSTING RINGS USE BUTYL RUBBER BASE EXTERIOR TO CASTING.
2. MANHOLE JOINTS SHALL BE O-RING GASKET PLUS 1/2" EXTRUDABLE GASKET (KENT SEAL OR EQUAL), PER ASTM C-443.
3. CONNECTION OF PIPES TO SANITARY MANHOLES SHALL BE MADE USING A FLEXIBLE BOOT, KOR-N-SEAL FLEXIBLE CONNECTOR, CAST-IN-PLACE DURA-SEAL GASKET, A-LOCK GASKET, OR APPROVED EQUAL.

1A STORM SEWER MANHOLE
NOT TO SCALE

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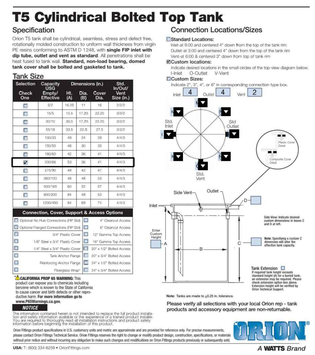
School City of Hammond

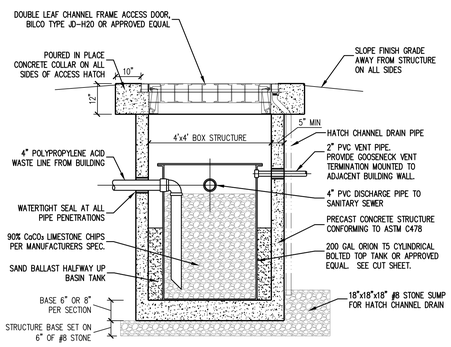
School City of Hammond

New Middle / High School for Hammond
BID PACKAGE I

SITE UTILITY DETAILS

CU501.1

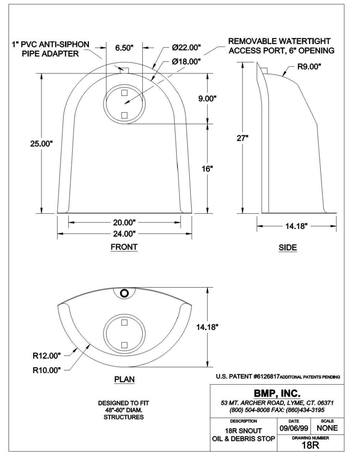




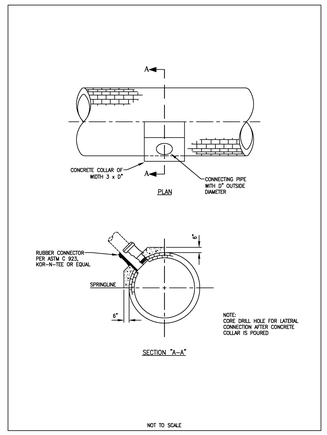
NOTES:

1. SEE UTILITY PLAN SHEETS FOR INVERT AND RIM ELEVATIONS
2. STRUCTURE JOINTS IF REQUIRED JOINTS SHALL BE O-RING GASKET PLUS 1/2" EXTRUDABLE GASKET (KENT SEAL OR EQUAL) PER ASTM C-443.
3. CONNECTION OF PIPES TO CONCRETE STRUCTURE SHALL BE MADE USING A FLEXIBLE BOOT, KOR-N-SEAL FLEXIBLE CONNECTOR, CAST-IN-PLACE DURA-SEAL GASKET, A-LOCK GASKET, OR APPROVED EQUAL.

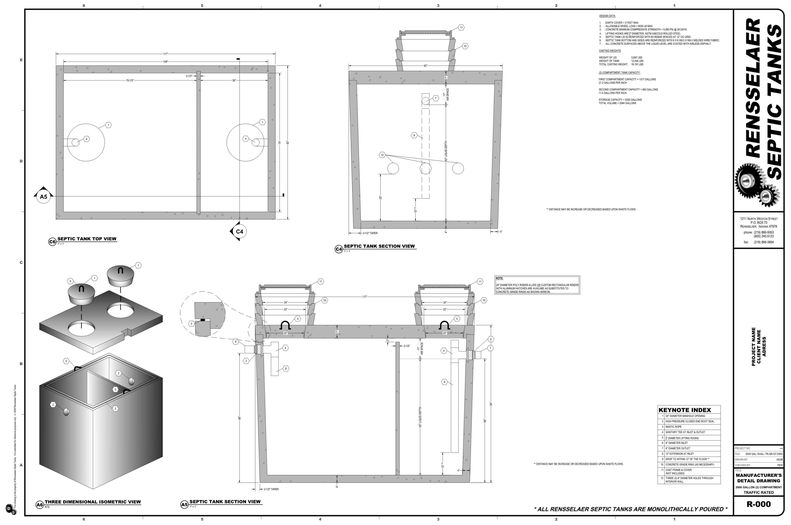
4C ACID NEUTRALIZATION BASIN
NOT TO SCALE



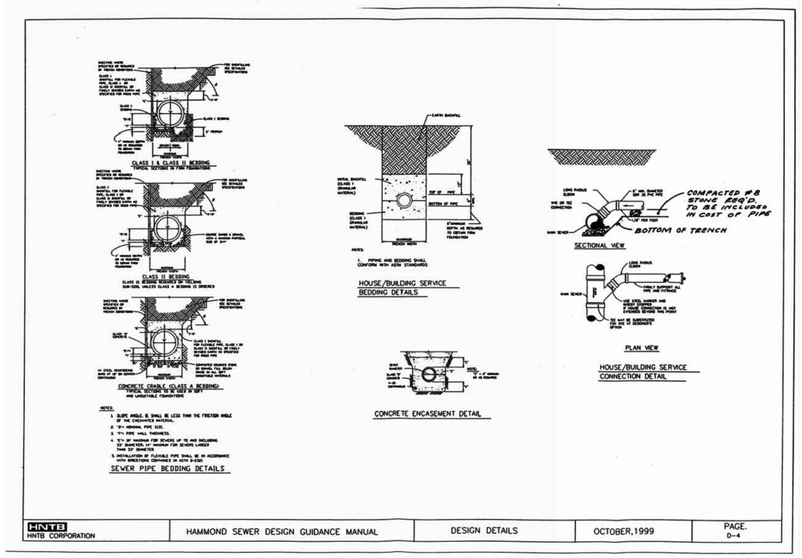
3D HOOD / TRAP FOR SUMPED STORM MANHOLE
NOT TO SCALE

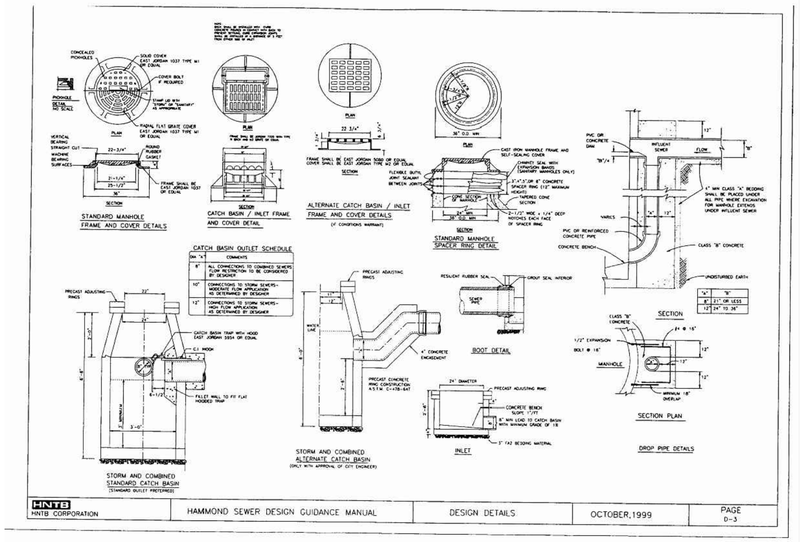


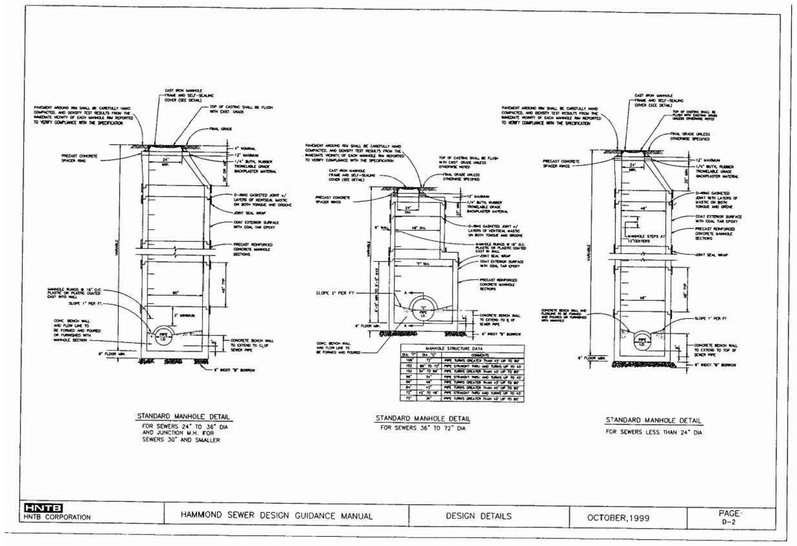
3C CONCRETE COLLAR FOR LARGE DIAMETER SEWER CONNECTION
NOT TO SCALE



3A 2000 GAL GREASE INTERCEPTOR
NOT TO SCALE







1A HAMMOND STANDARD SEWER DETAILS
NOT TO SCALE

SCHMIDT ASSOCIATES
415 Massachusetts Avenue
Indianapolis, IN 46204
www.schmidt-arch.com

Project No. 2017-105.MHS
Project Date 09.06.2018
Produced ATJ

ALLEN T. JACOBSEN REGISTERED NO. 10001136 STATE OF INDIANA PROFESSIONAL ENGINEER

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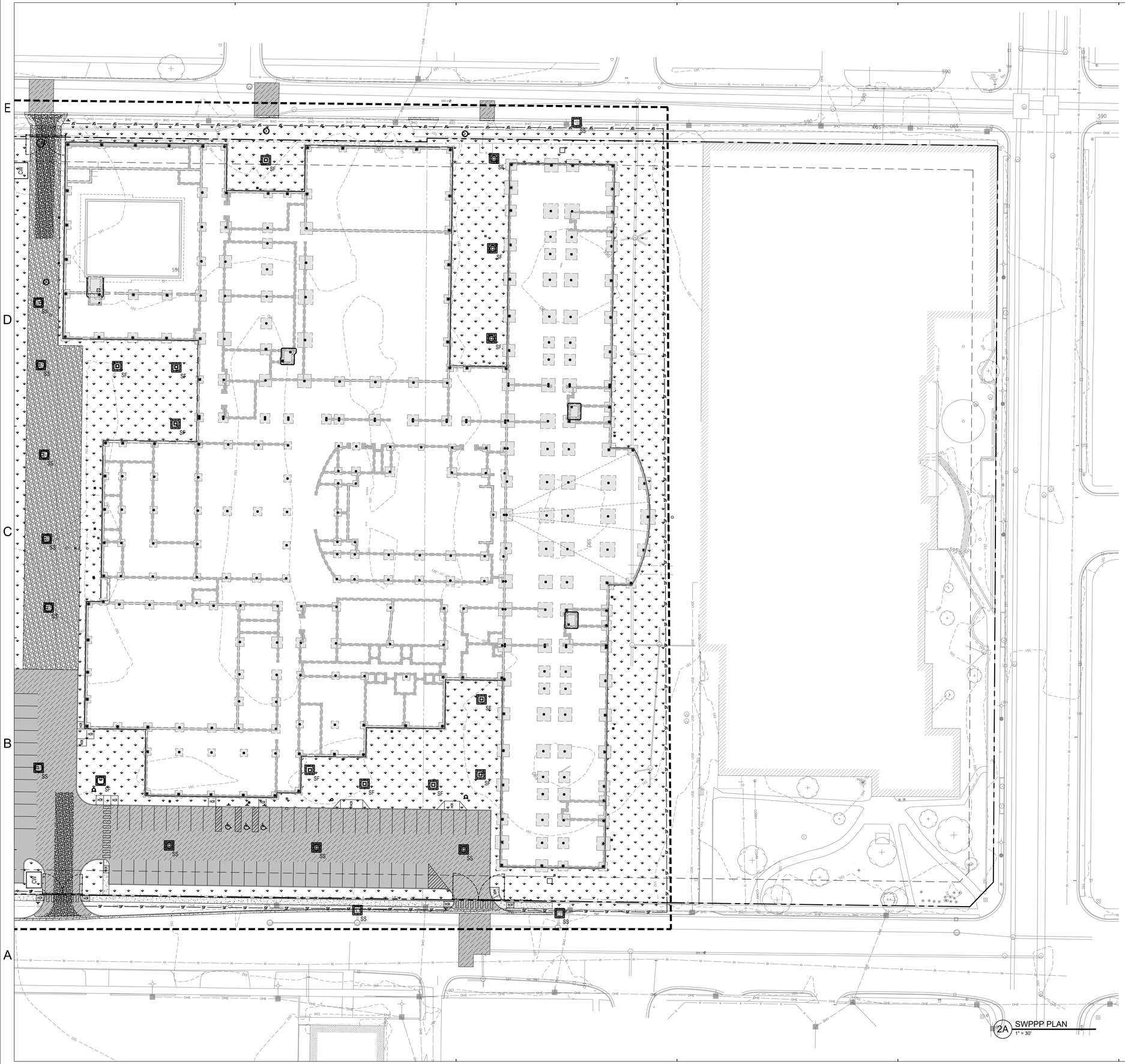
5926 Calumet Avenue
Hammond, IN 46320

School City of Hammond

New Middle / High School for Hammond
BID PACKAGE I

SITE UTILITY DETAILS

CU502.1



2A SWPPP PLAN
1" = 30'

EROSION CONTROL LEGEND

- SS — SILT SACK INLET PROTECTION, SEE DETAIL 2C/CE502
- SF — SILT FENCE INLET PROTECTION, SEE DETAIL 2B/CE502
- CW — CONCRETE WASHOUT, SEE DETAIL 1B/CE502
- TEMPORARY SEEDING, SEE SH. CE502 & SPECS
- CONSTRUCTION ENTRANCE, SEE DETAIL 1A/CE502
- TOPSOIL STOCKPILE AREA.
- CONSTRUCTION LIMITS LINE
- SILT FENCE, SEE DETAIL 2A/CE502

EROSION CONTROL NOTES

1. OWNER/CONTACT PERSON:
   SCHOOL CITY OF HAMMOND
   41 WILLIAMS STREET
   HAMMOND, IN 46320
   (219) 233-2400
   CONTACT: JAMES BURGGRAF
2. SITE INFORMATION
   HAMMOND HIGH SCHOOL
   5926 CALUMET AVENUE
   HAMMOND, IN 46320
   PHONE: (219) 933-2442
   PROPERTY AREA = 14.93 ACRES
   DISTURBED AREA = 11.89 ACRES
3. CITY COMPLIANCE INFORMATION:
   CITY OF HAMMOND ENGINEER'S OFFICE
   5925 CALUMET AVENUE
   HAMMOND, IN 46320
   PHONE: (219) 853-6336
4. A RULE 5 NOTICE OF INTENT FILING WITH THE INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT (IDEM) IS REQUIRED FOR THIS PLAN SINCE THE TOTAL DISTURBED AREA IS GREATER THAN 1.00 ACRES.
5. CONTRACTOR SHALL NOTIFY CITY OF HAMMOND ENGINEERS OFFICE REGARDING LOCATION FOR ANY PROPOSED OFF-SITE BORROW, FILL, OR STOCKPILE AREAS.
6. ALL EROSION CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE INDIANA STORMWATER QUALITY MANUAL, LATEST REVISION.
7. TEMPORARY OR PERMANENT SEEDING IS REQUIRED FOR ALL DISTURBED AREAS WITHIN CONSTRUCTION LIMITS. SEE SCHEDULE, SHEET CE501.
8. OWNER IS RESPONSIBLE FOR THE MAINTENANCE OF ALL POST-CONSTRUCTION BMP's.
9. ALL PROPOSED EROSION AND SEDIMENT CONTROL SHALL BE IN CONFORMANCE WITH CITY OF HAMMOND CONSTRUCTION GUIDELINES AND DETAILS, LATEST EDITION. DISCREPANCIES BETWEEN PLANS AND THE CITY REQUIREMENTS SHALL NOT ALLEVIATE THE CONTRACTOR FROM ADHERING TO THE REQUIREMENTS AS SET FORTH BY THE CITY.
10. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES MAY BE REQUIRED BY THE INSPECTOR.
11. THE BID PACKAGE I SWPPP PLAN WILL BE ADJUSTED AND AMENDED DURING SUBSEQUENT PROJECT PHASES. AN UPDATED SWPPP PLAN WILL BE ISSUED WITH BID PACKAGES II, III AND IV.

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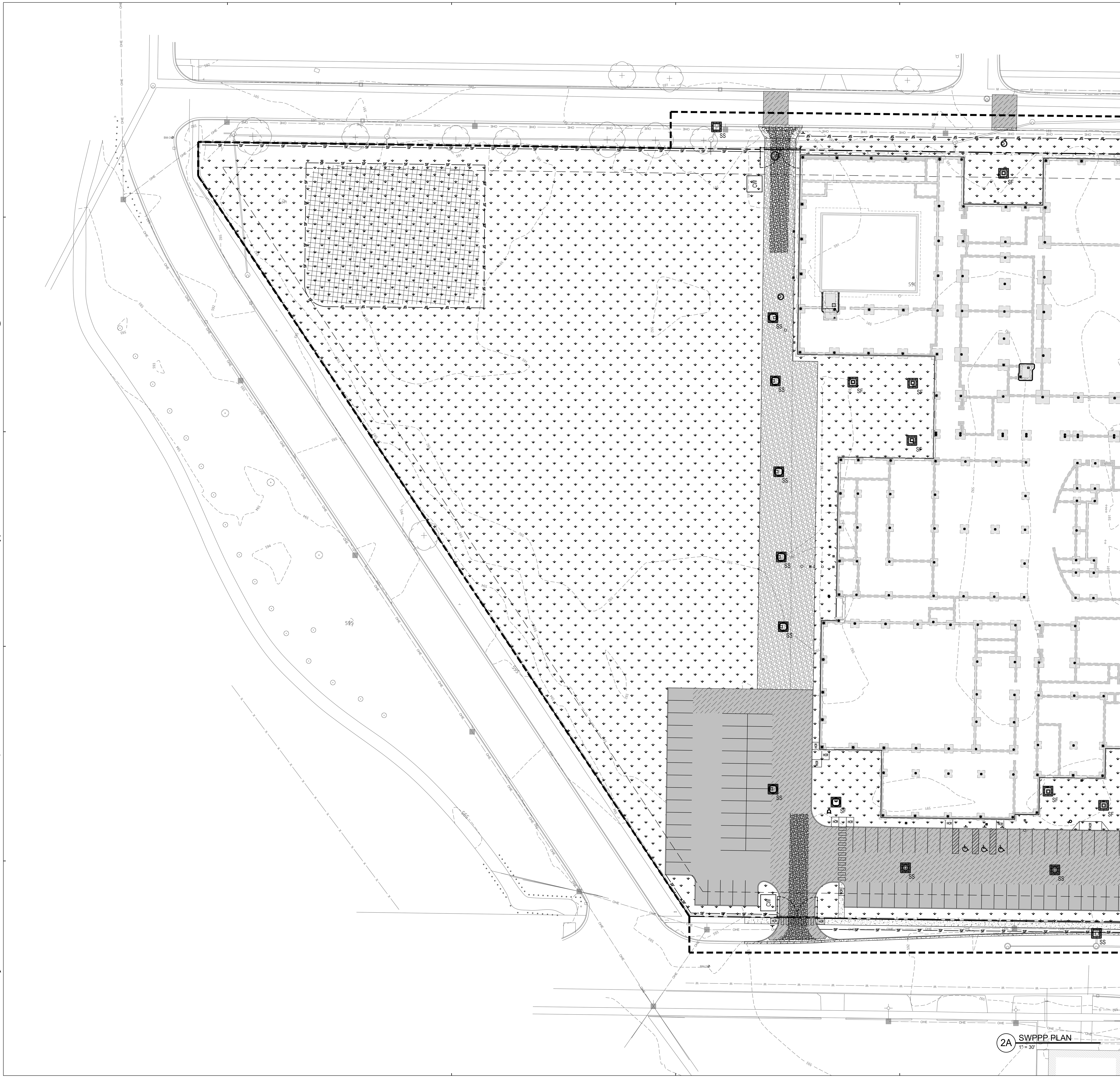
BID PACKAGE I

STORMWATER POLLUTION PREVENTION PLAN - EAST

CE101.1



2A SWPPP PLAN
1" = 30'

EROSION CONTROL LEGEND

- SS — SILT SACK INLET PROTECTION, SEE DETAIL 2C/CE502
- SF — SILT FENCE INLET PROTECTION, SEE DETAIL 2B/CE502
- CW — CONCRETE WASHOUT, SEE DETAIL 1B/CE502
- TEMPORARY SEEDING, SEE SH. CE502 & SPECS
- CONSTRUCTION ENTRANCE, SEE DETAIL 1A/CE502
- TOPSOIL STOCKPILE AREA.
- CONSTRUCTION LIMITS LINE
- SF — SILT FENCE, SEE DETAIL 2A/CE502

EROSION CONTROL NOTES

1. OWNER/CONTACT PERSON:
   SCHOOL CITY OF HAMMOND
   41 WILLIAMS STREET
   HAMMOND, IN 46320
   (219) 233-2400
   CONTACT: JAMES BURGGRAF
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   HAMMOND HIGH SCHOOL
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   HAMMOND, IN 46320
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   5925 CALUMET AVENUE
   HAMMOND, IN 46320
   PHONE: (219) 853-6336
4. A RULE 5 NOTICE OF INTENT FILING WITH THE INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT (IDEM) IS REQUIRED FOR THIS PLAN SINCE THE TOTAL DISTURBED AREA IS GREATER THAN 1.00 ACRES.
5. CONTRACTOR SHALL NOTIFY CITY OF HAMMOND ENGINEERS OFFICE REGARDING LOCATION FOR ANY PROPOSED OFF-SITE BORROW, FILL, OR STOCKPILE AREAS.
6. ALL EROSION CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE INDIANA STORMWATER QUALITY MANUAL, LATEST REVISION.
7. TEMPORARY OR PERMANENT SEEDING IS REQUIRED FOR ALL DISTURBED AREAS WITHIN CONSTRUCTION LIMITS. SEE SCHEDULE, SHEET CE501.
8. OWNER IS RESPONSIBLE FOR THE MAINTENANCE OF ALL POST-CONSTRUCTION BMPs.
9. ALL PROPOSED EROSION AND SEDIMENT CONTROL SHALL BE IN CONFORMANCE WITH CITY OF HAMMOND CONSTRUCTION GUIDELINES AND DETAILS, LATEST EDITION. DISCREPANCIES BETWEEN PLANS AND THE CITY REQUIREMENTS SHALL NOT ALLEVIATE THE CONTRACTOR FROM ADHERING TO THE REQUIREMENTS AS SET FORTH BY THE CITY.
10. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES MAY BE REQUIRED BY THE INSPECTOR.
11. THE BID PACKAGE I SWPPP PLAN WILL BE ADJUSTED AND AMENDED DURING SUBSEQUENT PROJECT PHASES. AN UPDATED SWPPP PLAN WILL BE ISSUED WITH BID PACKAGES II, III AND IV.

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Hammond, IN 46320

School City of Hammond

School City of Hammond

New Middle / High School for Hammond
BID PACKAGE I

STORMWATER POLLUTION PREVENTION PLAN - WEST

CE102.1

RULE 5 CHECKLIST INFORMATION
CONSTRUCTION PLAN ELEMENTS

A1. INDEX SHOWING LOCATIONS OF REQUIRED PLAN ELEMENTS:
SEE SHEET C-001, CE101, CE102.

A2. 11x17 INCH PLAT SHOWING BUILDING LOT NUMBERS/BOUNDARIES AND ROAD LAYOUT/NAMES:
PROVIDED - SEE ATTACHED SURVEY.

A3. NARRATIVE DESCRIBING THE NATURE AND PURPOSE OF THE PROJECT:
THE PROJECT IS LOCATED AT 5926 CALUMET AVE, HAMMOND, IN, 46320. THE PROJECT CONSISTS OF CONSTRUCTION OF A NEW MIDDLE SCHOOL/HIGH SCHOOL, NEW UTILITY INFRASTRUCTURE, NEW ATHLETIC FIELDS, NEW SIDEWALKS, NEW LANDSCAPING AND NEW PARKING LOTS. THIS PROJECT WILL BE CONSTRUCTED, WITH THE EXISTING HIGH SCHOOL REMAINING OPEN WITH 4 DIFFERENT BID PACKAGES. THIS STORM WATER POLLUTION PREVENTION PLAN IS BID PACKAGE 1. EACH OF THE FOLLOWING BID PACKAGE WILL HAVE A NEW STORM WATER POLLUTION PREVENTION PLAN.

A4. VICINITY MAP SHOWING PROJECT LOCATION:
SEE SHEET G-001, C-001.

A5. SITE IS LOCATED IN THE NE QUARTER OF SECTION 1, TOWNSHIP 36 NORTH, RANGE 10 WEST, IN THE CITY OF HAMMOND, NORTH TOWNSHIP, LAKE COUNTY, INDIANA. LATITUDE: 41° 35' 4.77" N; LONGITUDE: 87° 30' .57" W.

A6. LOCATION OF ALL LOTS AND PROPOSED SITE IMPROVEMENTS (ROADS, UTILITIES, STRUCTURES, ETC.):
SEE SURVEY SHEETS, SHEET C-001, CL101, & CG101/CG102.

A7. HYDROLOGIC UNIT CODE (14 DIGIT):
07120003050010 - GRAND CALUMET RIVER-LAKE COUNTY.

A8. NOTATION OF ANY STATE OR FEDERAL WATER QUALITY PERMITS:
IDEM RULE 5 REQUIRED.

A9. SPECIFIC POINTS WHERE STORM WATER DISCHARGE WILL LEAVE THE SITE:
STORMWATER WILL DISCHARGE THROUGH EXISTING MUNICIPAL STORM SEWERS AND COMBINED SEWERS TO THE GRAND CALUMET RIVER.

A10. LOCATION AND NAME OF ALL WETLANDS, LAKES AND WATER COURSES ON AND ADJACENT TO THE SITE:
NONE.

A11. IDENTIFICATION OF ALL RECEIVING WATERS:
GRAND CALUMET RIVER.

A12. IDENTIFICATION OF POTENTIAL DISCHARGES TO GROUND WATER (ABANDONED WELLS, SINKHOLES, ETC.):
NONE.

A13. 100 YEAR FLOODPLAINS, FLOODWAYS AND FLOODWAY FRINGES:
THE SITE IS LOCATED IN ZONE X (OUTSIDE 0.2% FLOOD ZONE) ACCORDING TO THE FEMA FLOOD INSURANCE RATE MAP PANEL NO 18089C0107E, DATED 01/18/2012.

A14. PRE-CONSTRUCTION AND POST-CONSTRUCTION ESTIMATE OF PEAK DISCHARGE (10-YEAR STORM EVENT, DISCHARGE FROM DETENTION POND):
10 YEAR PRE-CONSTRUCTION STORM (COMBINED) - 1.02 cfs
10 YEAR POST-CONSTRUCTION STORM (COMBINED) - 1.18 cfs

A15. ADJACENT LAND USE, INCLUDING UPSTREAM WATERSHED:
COMMERCIAL, RESIDENTIAL, INSTITUTIONAL, PLANNED UNIT DEVELOPMENT.

A16. LOCATIONS AND APPROXIMATE BOUNDARIES OF ALL DISTURBED AREAS (CONSTRUCTION LIMITS):
SEE SHEET CD101, CD102, CE101, CE102.

A17. IDENTIFICATION OF ALL EXISTING VEGETATIVE COVER:
SEE SURVEY SHEET AND DRAINAGE REPORT.

A18. SOILS MAP INCLUDING SOIL DESCRIPTIONS AND LIMITATIONS:
SEE SHEET CE502.

A19. LOCATIONS, SIZE AND DIMENSIONS OF PROPOSED STORMWATER SYSTEMS (PIPES, SWALES, CHANNELS, ETC):
SEE SHEET CG101, CG102.

A20. PLANS FOR ANY OFF-SITE CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS PROJECT (SEWER/WATER TIE-INS):
SEE SHEET CU101, CU101.

A21. LOCATIONS OF PROPOSED SOIL STOCKPILES AND/OR BORROW/DISPOSAL AREAS:
SEE SHEET CE101, CE102. STOCKPILES SHALL NOT BE LOCATED CLOSER THAN 15 FEET FROM ANY PROPERTY LINE. STOCKPILES SHALL BE IMMEDIATELY SEEDED AND SECURED WITH SILT FENCE.

A22. EXISTING SITE TOPOGRAPHY AT AN INTERVAL APPROPRIATE TO INDICATE DRAINAGE PATTERNS:
SEE SURVEY SHEETS.

A23. PROPOSED FINAL TOPOGRAPHY AT AN INTERVAL APPROPRIATE TO INDICATE DRAINAGE PATTERNS:
SEE SHEET CG101.

STORMWATER POLLUTION PREVENTION PLAN

B1. DESCRIPTION OF POTENTIAL POLLUTANT SOURCES ASSOCIATED WITH CONSTRUCTION ACTIVITIES:
SILT AND SEDIMENT FROM EXPOSED SOILS, LEAVES, MULCH, VEHICULAR SOURCES SUCH AS LEAKING FUEL OR OIL, BRAKE FLUID, BRAKE DUST, TRASH, DEBRIS, BIOLOGICAL AGENTS FOUND IN TRASH, FERTILIZERS, HERBICIDES, PESTICIDES, ACID RAIN, LIME DUST AND CONCRETE WASHOUT.

B2. SEQUENCE DESCRIBING STORMWATER QUALITY MEASURE IMPLEMENTATION RELATIVE TO LAND DISTURBING ACTIVITIES:
SEE GENERAL EROSION CONTROL NOTES SHEET C-001, AND SHEET CE501.
SEE CONSTRUCTION SITE MANAGEMENT PLANS, SHEETS CL201-202 FOR ADDITIONAL SEQUENCING INFORMATION.

PRECONSTRUCTION ACTIVITIES:
1. CALL INDIANA811 ("CALL BEFORE YOU DIG") AT 811 OR 1-800-382-5544 TO CHECK THE LOCATION OF ANY EXISTING UTILITIES. THEY SHOULD BE NOTIFIED TWO WORKING DAYS BEFORE CONSTRUCTION TAKES PLACE.
2. AN ORANGE CONSTRUCTION FENCE SHALL BE ERECTED ALONG THE PERIMETER OF THE TREE PRESERVATION AREAS PRIOR TO ANY EARTH MOVING.
3. A SILT FENCE SHALL BE INSTALLED AT THE EDGES OF THE PROJECT SITE WHERE THERE IS POTENTIAL FOR ANY STORMWATER RUNOFF. POTENTIAL AREAS ARE IDENTIFIED BASED ON EXISTING TOPOGRAPHY IN THE AREAS ALONG THE SOUTHERN AND EASTERN BOUNDARY OF THE SITE AS SHOWN ON PLANS.
4. INLET PROTECTION SHALL BE PLACED AT THE EXISTING CURB INLETS ON THE ADJOINING PUBLIC STREETS.
5. EVALUATE, MARK AND PROTECT IMPORTANT TREES AND ASSOCIATED ROOT ZONES. EVALUATE EXISTING VEGETATION SUITABLE FOR USE AS FILTER STRIPS ALONG THE NORTH, SOUTH, EAST AND WEST BOUNDARIES. MAINTAIN 15' WIDE TURF FILTER STRIPS WHERE POSSIBLE AROUND PERIMETER OF SITE.
6. CONSTRUCTION ENTRANCES SHALL BE PLACED PER THE PLAN LOCATIONS.
7. ESTABLISH CONSTRUCTION STAGING AREA FOR EQUIPMENT AND VEHICLES AS FAR FROM DETENTION PONDS AND SWALES AS POSSIBLE.
8. ESTABLISH ONSITE LOCATION FOR OWNER/OPERATOR/CONTRACTOR PLACEMENT OF APPROVED PLANS AND RULE 5 NOI AND RULE 5 INSPECTION DOCUMENTATION.

CONSTRUCTION ACTIVITIES:
1. ONCE EROSION AND SEDIMENT CONTROL MEASURES ARE IN PLACE, BEGIN LAND CLEARING FOLLOWED IMMEDIATELY BY ROUGH GRADING. DO NOT LEAVE LARGE AREAS UNPROTECTED FOR MORE THAN 15 DAYS. RULE 5 REQUIRES THAT ALL DISTURBED AREAS THAT POTENTIALLY WILL BE IDLE FOR 15 DAYS OR MORE WILL BE STABILIZED (SEEDED, MULCHED, ETC..) IMMEDIATELY.
2. AFTER COMPLETION OF MASS GRADING, FINAL GRADE AND SEED POND BANKS, LANDSCAPE BERMS, COMMON AREAS AND SWALES IMMEDIATELY AFTER GRADING IS COMPLETE.
3. UPON COMPLETION OF MASS GRADING, INSTALL SANITARY AND STORM SEWERS. AS STORM SEWERS ARE CONSTRUCTED, INSTALL INLET PROTECTION MEASURES. INSTALL RIPRAP UPON COMPLETION OF END SECTION INSTALLATION.
4. UPON COMPLETION OF SEWER INSTALLATION AND INLET PROTECTION, PROCEED WITH STREET CONSTRUCTION.
5. LIME STABILIZATION OF STREETS SHOULD BE DONE PRIOR TO THE INSTALLATION OF STORM SEWERS TO PREVENT THE TRANSMISSION OF LIME DUST TO PONDS OR RECEIVING WATERS.
6. ONCE PAVEMENT AND CURBS ARE IN PLACE, INSTALL CURB INLET SEDIMENT BARRIERS.
7. ONCE INLET PROTECTION IS IN PLACE, FINAL GRADE ALL AREAS. UPON COMPLETION OF ALL GRADING, VERIFY DEPTH OF POND PER PLAN REQUIREMENT, DREDGE AS NEEDED.

B3. STABLE CONSTRUCTION ENTRANCE LOCATIONS AND SPECIFICATIONS (AT ALL POINTS OF INGRESS AND EGRESS): ENTRY WILL BE FROM THE ADJOINING PUBLIC STREETS. SEE SHEETS CE101-102, CE502.

B4. SEDIMENT CONTROL MEASURES FOR SHEET FLOW AREAS:
SEE SHEETS CE101-102, CE502.

B5. SEDIMENT CONTROL MEASURES FOR CONCENTRATED FLOW AREAS:
SEE SHEETS CE101-102, CE502.

B6. STORM SEWER INLET PROTECTION MEASURE LOCATIONS AND SPECIFICATIONS:
SEE SHEETS CE101-102, CE502.

B7. RUNOFF CONTROL MEASURES (E.G. DIVERSIONS, ROCK CHECK DAMS, SLOPE DRAINS, ETC.):
SEE SHEETS CE101-102, CE502.

B8. STORM WATER OUTLET PROTECTION SPECIFICATIONS:
PROPOSED DETENTION BASINS & WATER QUALITY UNIT WILL ALLOW SEDIMENTS TO SETTLE FORM ON-SITE RUNOFF.

B9. GRADE STABILIZATION STRUCTURE LOCATIONS AND SPECIFICATIONS:
SEE SHEETS CE101-102, CE502.

B10. LOCATION, DIMENSIONS, SPECIFICATIONS, AND CONSTRUCTION DETAILS OF EACH STORMWATER QUALITY MEASURE:
SEE SHEETS CU101-102, CU502.

B11. TEMPORARY SURFACE STABILIZATION METHODS APPROPRIATE FOR EACH SEASON (INCLUDE SEQUENCING):
SEE SHEETS CE101-102, CE501 & CE502.

B12. PERMANENT SURFACE STABILIZATION SPECIFICATIONS (INCLUDE SEQUENCING):
SEE SHEETS CL101-102,CE101-102, CE501, CE502, LP101-102 & SPECIFICATIONS.

B13. DESCRIPTION OF POTENTIAL POLLUTANT SOURCES ASSOCIATED WITH CONSTRUCTION ACTIVITIES:
THE POTENTIAL FOR POLLUTANTS INTO THE SITE FROM CONSTRUCTION ACTIVITIES ARE EXPOSED SOILS, EQUIPMENT FUEL, LUBRICANTS AND CONSTRUCTION MATERIALS SUCH AS CONCRETE, ASPHALT AND CONSTRUCTION DEBRIS OR TRASH. TO MINIMIZE POLLUTANTS INTO THE STORM WATER, THE CONTRACTOR SHALL MAINTAIN SOIL EROSION CONTROLS AS SHOWN ON THE PLAN, INCLUDING TEMPORARY SEEDING AS REQUIRED. IN ADDITION, THE CONTRACTOR SHALL MAINTAIN PROPER INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT REGULATIONS FOR FUEL AND LUBRACANT STORAGE. ALL FUELING AND LUBRICATION OF EQUIPMENT SHALL BE DONE AT A MINIMUM OF 50 FEET FROM ANY STORM INLET OR DRAINAGE SWALE.

MATERIAL HANDLING AND SPILL PREVENTION PLAN:

SPILL CLEAN-UP:
IF ANY SPILL EXCEEDS THE INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT LEVELS, THE CONTRACTOR SHALL ENGAGE A QUALIFIED ENVIRONMENTAL CLEAN UP CONTRACTOR TO DISPOSE OF CONTAMINATED AREAS AS REQUIRED BY THE INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT. ALL CLEAN OUT OF CONCRETE TRUCKS SHALL ALSO BE DONE A MINIMUM OF 50 FEET FROM ANY STORM INLET, DRAINAGE SWALE OR EXCAVATED POND. ALL CONCRETE CLEAN OUT SHALL BE IN AN EXCAVATED SEDIMENT BASIN AND THE EXCESS MATERIAL REMOVED AFTER ALL CONCRETE MATERIAL INSTALLATION HAS BEEN COMPLETED ON THE SITE.

PURPOSE:
THE INTENTION OF THIS SPILL PREVENTION, CONTROL AND COUNTERMEASURES (SPCC) IS TO ESTABLISH THE PROCEDURES AND EQUIPMENT REQUIRED TO PREVENT THE DISCHARGE OF OIL AND HAZARDOUS SUBSTANCES IN QUANTITIES THAT VIOLATE APPLICABLE WATER QUALITY STANDARDS, CAUSE A SHEEN UPON OR DISCOLORATION OF THE SURFACE OF NAVIGABLE WATERS OR ADJOINING SHORELINES, OR CAUSE SLUDGE OR EMULSION TO BE DEPOSITED BENEATH THE SURFACE O THE WATER OR ADJOINING SHORELINES. THE PLAN ALSO ESTABLISHES THE ACTIVITIES REQUIRED TO MITIGATE SUCH DISCHARGES (I.E. COUNTERMEASURES) SHOULD THEY OCCUR.

DEFINITIONS:
POLLUTANT: MEANS POLLUTANT OF ANY KIND OR IN ANY FARM, INCLUDING BUT NOT LIMITED TO SEDIMENT, POINT, CLEANING AGENTS, CONCRETE WASHOUT, PESTICIDES, NUTRIENTS, TRASH, HYDRAULIC FLUIDS, FUEL, OIL, PETROLEUM, FUEL OIL, SLUDGE, OIL REFUSE, AND OIL MIXED WITH WASTES OTHER THAN DREDGED SOIL.

DISCHARGE:
INCLUDES BUT NOT LIMITED TO, ANY SPILLING, LEAKING, PUMPING, POURING, EMITTING, EMPTYING, OR DUMPING.

NAVIGABLE WATERS:
MEANS ALL WATERS OF THE UNITED STATES THAT ARE CONNECTED WITH A NAVIGABLE STREAM, LAKE, OR SEA. [NOTE: THIS DEFINITION IS USUALLY INTERPRETED TO MEAN ANY WASTEWATER (EVEN NORMALLY DRY WASH OR STORM SEWER) THAT EVENTUALLY DRAINS INTO A NAVIGABLE STREAM].

PLAN REVIEW AND AMENDMENTS:
THIS PLAN SHALL BE REVIEWED AND/OR AMENDED, IF NECESSARY, WHENEVER THERE IS A CHANGE IN THE DESIGN OF THE SITE, CONSTRUCTION, OPERATION, OR MAINTENANCE WHICH MATERIALLY AFFECTS THE SITE'S POTENTIAL FOR THE DISCHARGE OF REGULATED MATERIAL.

PREDICTION OF POTENTIAL SPILLS:
1. NEAREST NAVIGABLE WATER: WILDCAT CREEK AND WABASH RIVER.
2. DRAINAGE SYSTEM: ALL OF THE STORM DRAINAGE LEAVES THE PROJECT SITE BY AN ENGINEERED STORM DRAINAGE SYSTEM TO CITY OF LAFAYETTE STORM SEWERS.
3. POSSIBLE SPILL SOURCES (DURING AND POST CONSTRUCTION): VEHICULAR SOURCES SUCH AS LEAKING FUEL OR OIL, BROKE FLUID, GREASE, ANTIFREEZE; CONSTRUCTION TRASH AND DEBRIS, BIOLOGICAL AGENTS FOUND IN TRASH AND DEBRIS, FERTILIZERS, HOUSEHOLD ITEMS INCLUDING BUT NOT LIMITED TO CLEANING AGENTS, CHEMICALS, PAINT, HERBICIDES AND PESTICIDES.
4. GROUNDWATER CONTAMINATION:
THE FACILITY MAINTAINS NO ABOVE GROUND OR UNDER GROUND STORAGE TANKS AT THIS SITE. THEREFORE, IT IS FELT THAT THERE IS LITTLE OR NO POSSIBILITY OF POST-CONSTRUCTION GROUNDWATER CONTAMINATION. THE FACILITY IS SERVED BY MUNICIPAL SANITARY SEWER AND WATER.

ALERT PROCEDURES FOR SPILLS:
1. ANY PERSONNEL OBSERVING A SPILL WILL IMMEDIATELY INSTIGATE THE FOLLOWING PROCEDURE:
a. DIALING "0" FROM ANY TELEPHONE.
b. NOTIFY THE APPROPRIATE EMERGENCY PERSONNEL.
2. THE EMERGENCY COORDINATOR WILL THEN TAKE THE FOLLOWING ACTIONS:
c. BARRICADE THE AREA ALLOWING NO VEHICLES TO ENTER OR LEAVE THE SPILL ZONE.
NOTIFY THE INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT, OFFICE OF EMERGENCY RESPONSE BY CALLING THE APPROPRIATE TELEPHONE NUMBER:
OFFICE: 317-233-7745
TOLL FREE: 800-233-7745
ALSO THE NATIONAL RESPONSE CENTER AT 800-424-8802 AND PROVIDE THE FOLLOWING INFORMATION:
- TIME OF OBSERVATION OF THE SPILL
- LOCATION OF THE SPILL
- IDENTITY OF MATERIAL SPILLED
- PROBABLE SOURCE OF THE SPILL
- PROBABLE TIME OF THE SPILL
- VOLUME OF THE SPILL AND DURATION
- PRESENT AND ANTICIPATED MOVEMENT OF THE SPILL
- WEATHER CONDITIONS
- PERSONNEL AT THE SCENE
- ACTION INITIATED BY PERSONNEL
d. NOTIFY THE CITY OF HAMMOND FIRE DEPARTMENT PHONE: 9-1-1
e. NOTIFY THE CITY OF HAMMOND POLICE DEPARTMENT PHONE: 9-1-1
f. NOTIFY THE TIPPECANOE COUNTY DIVISION OF HOMELAND SECURITY/EMERGENCY MANAGEMENT PHONE: 219-755-3549.
g. NOTIFY WASTE RECOVERY CONTRACTOR, MAINTENANCE PERSONNEL OR OTHER CONTRACTUAL PERSONNEL AS NECESSARY FOR CLEANUP
h. COORDINATE AND MONITOR CLEANUP UNTIL THE SITUATION HAS BEEN STABILIZED AND ALL SPILLS HAVE BEEN ELIMINATED
i. COOPERATE WITH THE IDEM-OER ON PROCEDURES AND REPORTS INVOLVED WITH THE EVENT

CLEANUP PARAMETERS:
1. THE OWNER SHALL BE CONTINUALLY KEPT INFORMED, MAINTAIN LISTS OF QUALIFIED CONTRACTORS AND AVAILABLE VAC-TRUCKS, TANK PUMPERS AND OTHER EQUIPMENT READILY ACCESSIBLE FOR CLEAN-UP OPERATIONS. IN ADDITION, A CONTINUALLY UPDATED LIST OF AVAILABLE ABSORBENT MATERIALS AND CLEAN UP SUPPLIES SHOULD BE KEPT ON SITE.
2. ALL MAINTENANCE PERSONNEL WILL BE MADE AWARE OF TECHNIQUES FOR PREVENTION OF SPILLS. THEY WILL BE INFORMED OF THE REQUIREMENTS AND PROCEDURES OUTLINED IN THIS PLAN. THEY WILL BE KEPT ABREAST OF CURRENT DEVELOPMENTS OR NEW INFORMATION ON THE PREVENTION OF SPILLS AND/OR NECESSARY ALTERATIONS TO THIS PLAN.
3. WHEN SPILLS OCCUR WHICH COULD ENDANGER HUMAN LIFE AND THIS BECOMES PRIMARY CONCERN, THE DISCHARGE OF THE LIFE SAVING PROTECTION FUNCTION WILL BE CARRIED OUT BY THE LOCAL POLICE AND FIRE DEPARTMENTS.
4. ABSORBENT MATERIALS, WHICH ARE USED IN CLEANING UP SPILLED MATERIALS, WILL BE DISPOSED OF IN A MANNER SUBJECT TO THE APPROVAL OF THE INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT.
5. FLUSHING OF SPILLED MATERIAL WITH WATER WILL NOT BE PERMITTED UNLESS SO AUTHORIZED BY THE INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT.

B14. MONITORING AND MAINTENANCE GUIDELINES FOR EACH PROPOSED STORMWATER QUALITY MEASURE:

SILT FENCE MAINTENANCE REQUIREMENTS
1. INSPECT THE SILT FENCE PERIODICALLY AND AFTER EACH STORM EVENT
2. IF FENCE FABRIC TEARS, STARTS TO DECOMPOSE OR IN ANY WAY BECOMES INEFFECTIVE, REPLACE THE AFFECTED PORTION IMMEDIATELY.
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 CLEANOUT.
5. AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED, REMOVE THE FENCE AND SEDIMENT DEPOSITS, BRING THE DISTURBED AREA TO GRADE AND STABILIZE IT.

TEMPORARY SEDIMENT TRAP MAINTENANCE REQUIREMENTS
1. INSPECT TEMPORARY SEDIMENT TRAPS AFTER EACH STORM EVENT AND IMMEDIATELY REPAIR ANY EROSION AND PIPING HOLES.
2. REMOVE SEDIMENT WHEN IT HAS ACCUMULATED TO ONE-HALF THE DESIGN DEPTH.
3. REPLACE SPILLWAY GRAVEL FACING WHEN CLOGGED.
4. INSPECT VEGETATION AND RE-SEED IF NECESSARY.
5. CHECK THE SPILLWAY DEPTH PERIODICALLY TO INSURE A MINIMUM OF THE 1.5 FT. DEPTH FROM THE LOWEST POINT OF THE SETTLED EMBANKMENT TO THE HIGHEST POINT OF THE SPILLWAY CREST AND FILL ANY LOW AREAS TO MAINTAIN DESIRED ELEVATION.
6. PROMPTLY REPLACE ANY DISPLACED RIP-RAP, BEING CAREFUL THAT NO STONES IN THE SPILLWAY ARE ABOVE DESIGN GRADE.
7. AFTER ALL DISTURBED AREAS HAVE BEEN STABILIZED, REMOVE THE STRUCTURE ANDSEDIMENT, SMOOTH THE SITE TO BLEND WITH ADJOINING AREAS AND STABILIZE IT.

SILT SACK INLET BARRIER MAINTENANCE REQUIREMENTS
1. INSPECT FREQUENTLY FOR DAMAGE BY VEHICULAR TRAFFIC AND REPAIR IF NECESSARY.
2. INSPECT AFTER EACH STORM EVENT.
3. REMOVE SEDIMENT, WITHOUT FLUSHING, WHEN IT REACHES HALF THE HEIGHT OF THE BARRIER BY REMOVING AND EMPTYING SEDIMENT BAG.
4. DEPOSIT REMOVED SEDIMENT WHERE IT WILL NOT ENTER STORM SEWER DRAINS.

EROSION CONTROL BLANKET (SURFACE APPLIED) MAINTENANCE REQUIREMENTS
1. DURING VEGETATIVE ESTABLISHMENT, INSPECT AFTER EACH STORM EVENT FOR ANY EROSION BELOW THE BLANKET.
2. IF ANY AREA(S) SHOWS EROSION, PULL BACK THAT PORTION OF THE BLANKET COVERING IT, RESEED THE AREA AND RELAY AND STAPLE THE BLANKET.
3. AFTER VEGETATIVE ESTABLISHMENT CHECK THE TREATED AREA PERIODICALLY.

TEMPORARY GRAVEL CONSTRUCTION ENTRANCE MAINTENANCE REQUIREMENTS
1. INSPECT ENTRANCE PAD AND SEDIMENT DISPOSAL AREA WEEKLY AND AFTER STORM EVENTS OR HEAVY USE.
2. RESHAPE AS NEEDED FOR DRAINAGE AND RUNOFF CONTROL.
3. TOPDRESS WITH CLEAN STONE AS NEEDED.
4. IMMEDIATELY REMOVE MUD AND SEDIMENT TRACKED OR WASHED ONTO STREETS BY BRUSHING OR SWEEPING. FLUSHING SHOULD ONLY BE USED IF THE WATER IS CONVEYED INTO A SEDIMENT TRAP OR BASIN.
5. REPAIR ANY BROKEN ROAD PAVEMENT IMMEDIATELY.

B15. EROSION & SEDIMENT CONTROL SPECIFICATIONS FOR INDIVIDUAL BUILDING LOTS:
PROJECT DOES NOT INVOLVE INDIVIDUAL BUILDING LOTS.

STORMWATER POLLUTION PREVENTION PLAN-
POST CONSTRUCTION COMPONENT

C1. DESCRIPTION OF POLLUTANTS AND THEIR SOURCES ASSOCIATED WITH PROPOSED LAND USE:
EXPECTED POLLUTANTS INCLUDE TRASH FROM LITTERING, GRIT OR SEDIMENT, FLUIDS FROM VEHICLES, AND ELEVATED WATER TEMPERATURES DUE TO CONTACT WITH IMPERVIOUS SURFACES.

C2. SEQUENCING DESCRIBING STORMWATER QUALITY MEASURE IMPLEMENTATION:
THE NORTHWEST DETENTION BASIN SHALL BE INSTALLED EARLY IN THE CONSTRUCTION SEQUENCE WITH A PUMPED DISCHARGE TO THE ADJOINING CITY STORM SEWER, AND WILL FUNCTION AS A TEMPORARY SEDIMENT BASIN. THE NORTHEAST DETENTION BASIN & WATER QUALITY TREATMENT UNIT (WQTU) SHALL BE INSTALLED LATER IN THE CONSTRUCTION SEQUENCE.
1. INSPECT AND MAINTAIN ALL EROSION CONTROL MEASURES AS DETAILED IN THE STORMWATER POLLUTION PREVENTION MEASURES MAINTENANCE MANUAL BEGINNING IMMEDIATELY AFTER INSTALLATION AND CONTINUING UNTIL VEGETATION HAS BEEN SUFFICIENTLY ESTABLISHED AND AL CONSTRUCTION ACTIVITY IS COMPLETE.
2. REMOVE ALL INDIVIDUAL INLET PROTECTION, SILT FENCES, ETC. ONLY AFTER SEEDING, LANDSCAPING, MULCHING AND SUFFICIENT VEGETATIVE GROWTH HAS BEEN ESTABLISHED IN EACH AREA TO A POINT WHERE SEDIMENT/POLLUTANTS WILL NOT ENTER THE STORM SEWER SYSTEM.
3. IT IS RECOMMENDED THAT ANY PROPOSED WETLAND AREAS AND PLANTINGS (IF ANY) BE CONSTRUCTED/PLACED AFTER FINAL GRADING AND SUFFICIENT VEGETATIVE GROWTH HAS BEEN ESTABLISHED TO A POINT WHERE SEDIMENT/POLLUTANTS WILL NOT ENTER THE PROPOSED WETLANDS.

C3. DESCRIPTION OF PROPOSED POST CONSTRUCTION STORMWATER MEASURES (INCLUDE A WRITTEN DESCRIPTION OF HOW THESE MEASURES WILL REDUCE DISCHARGE OF EXPECTED POLLUTANTS):
TWO DETENTION BASINS AND A WATER QUALITY TREATMENT UNIT (WQTU) WILL REDUCE DISCHARGE OF EXPECTED POLLUTANTS.
1. REDUCING OR ELIMINATING POST-PROJECT RUNOFF.
2. CONTROLLING SOURCES OF POLLUTANTS.
3. TREATING CONTAMINATED STORM WATER RUNOFF BEFORE DISCHARGING IT INTO THE STORM SEWER SYSTEM OR RECEIVING WATERS.
ADDITIONAL STORM WATER QUALITY MEASURES FOR REDUCING, ELIMINATING OR CONTROLLING POLLUTANTS (SOURCE CONTROLS) INCLUDE:
1. REDUCING RUNOFF OR DIRECT RUNOFF FROM IMPERVIOUS AREAS.
2. VEGETATED STRIPS AND/OR SWALES.
3. PERMANENT EROSION CONTROL SEEDING AND PLANTINGS.
4. PLANTING MULCHING.

C4. IT IS THE INTENT OF THIS PLAN THAT THE IMPLEMENTATION OF THE ABOVE DESCRIBED STORMWATER QUALITY MEASURES BE EXECUTED IN ACCORDANCE WITH THE CONSTRUCTION PLANS, SPECIFICATIONS AND DETAILS IN ORDER TO MEET THE REQUIREMENTS OF RULE 5 STORM WATER QUALITY.

C5. LOCATION, DIMENSIONS, SPECIFICATIONS, AND CONSTRUCTION DETAILS OF EACH STORMWATER QUALITY MEASURE:
SEE SHEET CU101, CU502, CE101.

DESCRIPTION OF MAINTENANCE GUIDELINES FOR POST CONSTRUCTION STORMWATER QUALITY MEASURE:

WATER QUALITY TREATMENT UNIT (WQTU) - AQUA-SWIRL AS-5 PCS
CAPACITIES: TREATMENT FLOW RATE = 1.47 CFS, SEDIMENT CAPACITY = 45 CU FT, OIL STORAGE CAPACITY = 270 GAL., 80% TSS REMOVAL RATE.

MAINTENANCE PROCEDURES

1. OWNER IS RESPONSIBLE FOR THE ROUTING MAINTENANCE AND REPAIR OF ALL POST CONSTRUCTION BMPS.
2. MAINTENANCE EVENTS MAY INCLUDE INSPECTION, OIL & FLOATABLES REMOVAL, AND SEDIMENT REMOVAL.
3. MAINTENANCE OF THE WQTU IS PERFORMED USING VACUUM TRUCKS. NO ENTRY INTO THE UNIT IS REQUIRED FOR MAINTENANCE OF THE WQTU AND SOCS. DO NOT ENTER THE STRUCTURES WITHOUT THE PROPER EQUIPMENT, TRAINING, AND ARE QUALIFIED TO ENTER A CONFINED SPACE, AS IDENTIFIED BY LOCAL OCCUPATIONAL SAFETY AND HEALTH REGULATIONS. WITHOUT THE PROPER EQUIPMENT AND TRAINING, ENTRY INTO CONFINED SPACES CAN RESULT IN SERIOUS BODILY HARM AND POTENTIALLY DEATH. CONSULT LOCAL, PROVINCIAL, AND/OR STATE REGULATIONS TO DETERMINE THE REQUIREMENTS FOR CONFINED SPACE ENTRY.
4. THE VACUUM SERVICE INDUSTRY IS A WELL-ESTABLISHED SECTOR OF THE SERVICE INDUSTRY THAT CLEANS UNDERGROUND TANKS, SEWERS AND CATCH BASINS. COSTS TO CLEAN A WQTU OR SOCS WILL VARY BASED ON THE SIZE OF UNIT AND TRANSPORTATION DISTANCES.
5. THE DEPTH OF OIL IN THE WQTU CAN BE DETERMINED BY INSERTING A DIPSTICK TUBE IN THE INSPECTION OPENING.
6. SIMILARLY, THE DEPTH OF SEDIMENT CAN BE MEASURED FROM THE SURFACE WITHOUT ENTRY INTO THE WQTU VIA A DIPSTICK TUBE EQUIPPED WITH A BALL VALVE (SLUDGE JUDGE). MAINTENANCE SHOULD BE PERFORMED ONCE THE SEDIMENT DEPTH EXCEEDS THE GUIDELINE VALUES INDICATED BELOW.
7. REFER TO OPERATIONS AND MAINTANCE MANUALS FOR ADDITIONAL MAINTAINANCE DETAILS AND MAINTANANCE DUCUMENTATION FORMS.

RECOMMENDED PROCEDURE TO CLEAN OUT THE WQTU:

1. CLEANING IS BEST PERFORMED DURING DRY WEATHER CONDITIONS.
2. CHECK FOR OIL (USING A DIPSTICK TUBE).
3. REMOVE ANY OIL SEPARATELY USING A SMALL PORTABLE PUMP.
4. DECANT THE WATER FROM THE UNIT TO THE SANITARY SEWER USING A PORTABLE PUMP (PRIOR APPROVAL IS REQUIRED FROM THE SEWER AUTHORITY/MUNICIPALITY).
5. REMOVE THE SLUDGE FROM THE BOTTOM OF THE UNIT USING A VACUUM TRUCK.
6. RE-FILL THE WQTU WITH WATER WHERE REQUIRED BY THE LOCAL JURISDICTION.

MAINTENANCE SCHEDULE

1. INSPECT THE WQTU EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. THEREAFTER, ANNUAL INSPECTION IS REQUIRED BUT FREQUENCY WILL VARY WITH THE AMOUNT OF POLLUTION ON THE SITE (NUMBER OF HYDROCARBON SPILLS, AMOUNT OF SEDIMENT, ETC.). IT IS RECOMMENDED THAT THE FREQUENCY OF MAINTENANCE BE INCREASED OR REDUCED BASED ON LOCAL CONDITIONS. IF THE SEDIMENT LOAD IS HIGH, MAINTENANCE MAY BE REQUIRED SEMI-ANNUALLY. CONVERSELY ONCE THE SITE HAS STABILIZED, MAINTENANCE MAY BE REQUIRED LESS FREQUENTLY. MAINTENANCE SHOULD BE PERFORMED IMMEDIATELY AFTER AN OIL SPILL OR ONCE THE SEDIMENT DEPTH IN WQTU REACHES THE VALUE SPECIFIED BELOW BASED ON THE UNIT SIZE.
2. SEDIMENT DEPTH INDICATING REQUIRED MAINTENANCE: > 24 INCHES.

IN THE EVENT OF AN OIL SPILL

THE WQTU IS NOT DESIGNED TO CONTAIN A CATASTROPHIC SPILL OF OIL, THE WQTU IS DESIGNED TO CONTAIN SMALLER QUANTITIES OF OIL FROM THROUGHOUT THE SITE OVER LONGER PERIODS OF TIME. IN THE EVENT OF A CATASTROPHIC SPILL, THE WQTU SHOULD BE CLEANED IMMEDIATELY AFTER A SPILL OCCURS BY A LICENSED LIQUID WASTE HAULER. ALSO NOTIFY THE APPROPRIATE REGULATORY AGENCIES AS REQUIRED IN THE EVENT OF A SPILL AS INDICATED ABOVE.

DISPOSAL OF THE TRAPPED MATERIAL REMOVED FROM WQTU

1. THE REQUIREMENTS FOR THE DISPOSAL OF MATERIAL FROM THE WQTU ARE SIMILAR TO THAT OF ANY OTHER BEST MANAGEMENT PRACTICES (BMP). LOCAL GUIDELINES SHOULD BE CONSULTED PRIOR TO DISPOSAL OF THE SEPARATOR CONTENTS.
2. IN MOST AREAS THE SEDIMENT, ONCE DEWATERED, CAN BE DISPOSED OF IN A SANITARY LANDFILL. IT IS NOT ANTICIPATED THAT THE SEDIMENT WOULD BE CLASSIFIED AS HAZARDOUS WASTE. IN SOME AREAS, MIXING THE WATER WITH THE SEDIMENT WILL CREATE A SLURRY THAT CAN BE DISCHARGED INTO A TRUNK SANITARY SEWER. IN ALL DISPOSAL OPTIONS, APPROVAL FROM THE DISPOSAL FACILITY OPERATOR/AGENCY IS REQUIRED. PETROLEUM WASTE PRODUCTS COLLECTED IN STORMCEPTOR (OIL/CHEMICAL/FUEL SPILLS) SHOULD BE REMOVED BY A LICENSED WASTE MANAGEMENT COMPANY.

OBSERVATION OF OIL RAINBOW OR SHEEN AT THE WQTU OUTLET

WITH A STEADY INFLUX OF WATER WITH HIGH CONCENTRATIONS OF OIL, A SHEEN MAY BE NOTICEABLE AT THE WQTU OUTLET. THIS MAY OCCUR BECAUSE A RAINBOW OR SHEEN CAN BE SEEN AT VERY SMALL OIL CONCENTRATIONS (< 10 PPM). THE WQTU WILL REMOVE OVER 95% OF ALL FREE OIL AND THE APPEARANCE OF A SHEEN AT THE OUTLET WITH HIGH INFLUENT OIL CONCENTRATIONS DOES NOT MEAN THAT THE UNIT IS NOT WORKING TO THIS LEVEL OF REMOVAL. IN ADDITION, IF THE INFLUENT OIL IS EMULSIFIED, THE WQTU WILL NOT BE ABLE TO REMOVE IT. THE WQTU IS DESIGNED FOR FREE OIL REMOVAL AND NOT EMULSIFIED OR DISSOLVED OIL CONDITIONS.

EROSION CONTROL SEQUENCING & MAINTENANCE

CONTROL MEASURE	MAINTENANCE	INSTALLATION SEQUENCE
STONE ENTRANCE	INSPECT WEEKLY, AFTER STORM EVENTS, AND AFTER HEAVY USE; RESHAPE PAD AS NEEDED FOR DRAINAGE AND RUNOFF CONTROL; TOP-DRESS WITH CLEAN STONE AS NEEDED; REMOVE ALL MUD AND SEDIMENT TRACKED OR WASHED ONTO PUBLIC ROADS IMMEDIATELY.	PRIOR TO CLEARING AND GRADING
SILT FENCE	INSPECT AFTER STORM EVENTS; REPAIR ANY AREAS OF DECOMPOSITION OR DAMAGE TO FENCE MATERIAL; REMOVE SEDIMENT AT DEPTH OF ONE HALF FENCE HEIGHT AT LOWEST POINT OR IF FABRIC BULGES; AVOID UNDERMINING DURING CLEAN-OUT.	PRIOR TO CLEARING AND GRADING
EXISTING INLET PROTECTION	WEEKLY, AFTER STORM EVENTS, AND AS NEEDED.	PRIOR TO CLEARING AND GRADING
TEMPORARY TOPSOIL STOCKPILE	DETERMINE DEPTH AND SUITABILITY OF TOPSOIL AT THE SITE. (FOR HELP, CONTACT YOUR LOCAL SWCD OFFICE TO OBTAIN A COUNTY SOIL SURVEY REPORT OR CONSULT WITH A SOIL SCIENTIST.) PRIOR TO STRIPPING TOPSOIL, INSTALL ANY SITE-SPECIFIC DOWN SLOPE PRACTICES NEEDED TO CONTROL RUNOFF AND SEDIMENTATION. REMOVE THE SOIL MATERIAL NO DEEPER THAN WHAT THE COUNTY SOIL SURVEY STOCKPILE THE MATERIAL IN ACCESSIBLE LOCATIONS THAT NEITHER INTERFERE WITH FENCES, STRAW BALES, OR OTHER BARRIERS TO TRAP SEDIMENT (SEE EXHIBIT 3.02-B). (SEVERAL SMALL PILES AROUND THE CONSTRUCTION SITE ARE USUALLY MORE EFFICIENT AND EASIER TO CONTAIN THAN ONE LARGE PILE.) IF SOIL IS STOCKPILED FOR MORE THAN 6 MO., IT SHOULD BE TEMPORARILY SEEDED OR COVERED WITH A TARP OR SURROUNDED BY A SEDIMENT BARRIER.	PRIOR TO CLEARING AND GRADING
TEMPORARY SEEDING	INSPECT PERIODICALLY TO VERIFY ADEQUATE ESTABLISHMENT OF VEGETATIVE STANDS; RESEED AND MULCH AS NEEDED; INSPECT AFTER STORM EVENTS AND REPAIR EROSION DAMAGE; TOP-DRESS FALL SEEDED WHEAT OR RYE SEEDINGS WITH 50 LBS/AC OR NITROGEN IN FEBRUARY OR MARCH IF NITROGEN DEFICIENCY IS APPARENT; WATER AS NEEDED.	AFTER ROUGH GRADING
PERMANENT SEEDING	INSPECT PERIODICALLY AND AFTER STORM EVENTS UNTIL VEGETATIVE STAND IS ESTABLISHED; ADD FERTILIZER AFTER GROWING SEASON PER SOIL TEST RECOMMENDATIONS; REPAIR DAMAGED, BARE, OR SPARSE AREAS BY FILLING, PREPARING THE SEED BED, FERTILIZING, AND/OR SEEDING AND MULCHING.	AFTER FINISH GRADING OF EACH AREA
EROSION CONTROL BLANKET	INSPECT FOR AREAS OF EROSION BELOW THE BLANKET AFTER EACH STORM EVENT; REPAIR AREAS OF EROSION BY REMOVING AFFECTED PORTION OF BLANKET, ADD SOIL, RESEED, RELAY AND STAPLE BLANKET; INSPECT PERIODICALLY AFTER VEGETATION IS ESTABLISHED.	AFTER FINISH GRADING
INLET PROTECTION	INSPECT FABRIC BARRIER AFTER STORM EVENTS AND MAKE NEEDED REPAIRS IMMEDIATELY; REMOVE SEDIMENT FROM THE POOL AREA WHILE AVOIDING DAMAGING OR UNDERCUTTING THE FABRIC.	AFTER EACH INLET IS PLACED
SEED, SOD & LANDSCAPE	KEEP SOD MOIST UNTIL FULLY ROOTED; WATER AS NEEDED.	AFTER FINISHED GRADING
REMOVAL OF INLET PROTECTION	N/A	AFTER ALL TRIBUTARY AREAS ARE STABILIZED
REMOVAL OF SILT FENCE	N/A	AFTER ALL TRIBUTARY AREAS ARE STABILIZED

NOTE: EROSION CONTROL MAINTENANCE MEASURES ARE FOR A GUIDELINE ONLY. ALL EROSION CONTROL MAINTENANCE SHALL MEET OR EXCEED IDEM REGULATIONS & GUIDANCE.

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Project No. 2017-105.MHS
Project Date 09.06.2018
Produced ATJ

ALLEN T. JACOBSEN REGISTERED NO. 10001136 STATE OF INDIANA PROFESSIONAL ENGINEER

Allen T. Jacobsen

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5926 Calumet Avenue
Hammond, IN 46320

N

School City of Hammond

School City of Hammond

New Middle / High School for Hammond
BID PACKAGE I

SWPPP NOTES & DETAILS

CE501.1

9

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
Ur	Urban land	16.0	100.0%
Totals for Area of Interest		**16.0**	**100.0%**

3B SOILS MAP
NOT TO SCALE

Lake County, Indiana

Ur—Urban land

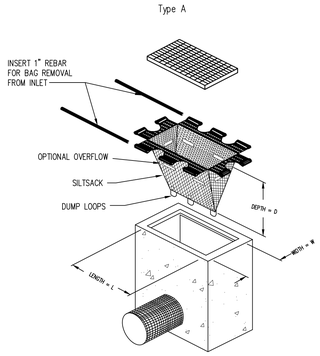
Map Unit Setting
National map unit symbol: 94kg
Elevation: 570 to 790 feet
Mean annual precipitation: 36 to 40 inches
Mean annual air temperature: 49 to 51 degrees F
Frost-free period: 170 to 180 days
Farmland classification: Not prime farmland

Map Unit Composition
Urban land: 100 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

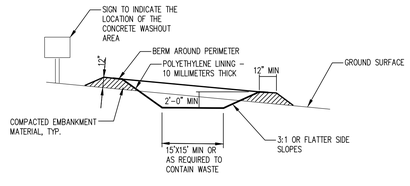
Description of Urban Land

Interpretive groups
Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 8
Other vegetative classification: Trees/Timber (Woody Vegetation)
Hydric soil rating: Unranked

3A SOILS DESCRIPTION
NOT TO SCALE

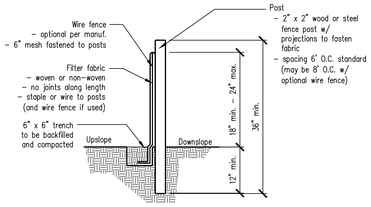


2C Silt Sack Inlet Protection
Not to Scale



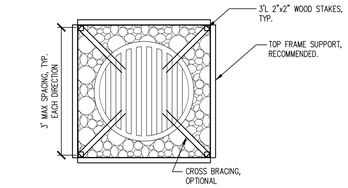
Notes:
1. Concrete washout area shall be installed prior to any concrete placement on site.
2. Signs shall be placed at the construction entrance, at the washout area, and elsewhere as necessary to clearly indicate the location of the concrete washout area to operators of concrete trucks and pump rigs.
3. The concrete washout area shall be repaired and enlarged or cleaned out as necessary to maintain capacity for wasted concrete.
4. At the end of construction, all concrete shall be removed from the site and disposed of at an approved waste site.
5. When the concrete washout area is removed, the disturbed area shall be seeded and mulched or otherwise stabilized in a manner approved by the inspector.

1C Concrete Washout Detail
NOT TO SCALE



Maintenance:
1. Inspect silt fence periodically (weekly) and after each storm event.
2. If fabric is torn or damaged or in any way becomes ineffective, replace the affected portion immediately.
3. Remove deposited sediment when it reaches half the height of the fence, or it is causing the fabric to bulge.
4. Take care not to undermine the fence during sediment removal.
5. After the contributing area has been stabilized, remove the fence and remaining sediment, bring the disturbed area to grade, and stabilize.

2B Silt Fence Section
NOT TO SCALE

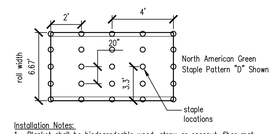


PLAN VIEW

Installation:
1. Cut fence fabric from a single roll to eliminate joints. Use a minimum overlap 2' if a joint is needed.
2. Bury 12" of fence fabric per the Silt Fence Section Detail, this sheet.
3. Space support evenly, with a maximum spacing of 3'.
4. Supports shall abut the inlet perimeter where ever possible.
   Provide a 4" bed of no. 2 stone where overflow falls to unprotected soil.
5. Prefabricated welded wire structures are acceptable.

Maintenance:
1. Inspect fence periodically (weekly) and after each storm event.
2. If fence is damaged, repair or replace it immediately.
3. Remove deposited sediment when it reaches one third of the height of fence.
4. Take care not to undermine the fence during sediment removal.
5. After the contributing area has been stabilized, remove the fence and remaining sediment, bring the disturbed area to grade, and stabilize.
6. Replace the fence with Gravel Donut (Practice 3.56) if it continually sustains significant damage.

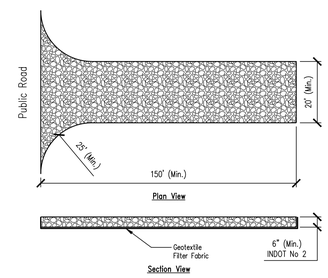
1B Silt Fence Inlet Protection
NOT TO SCALE – PRACTICE 3.52



Installation Notes:
1. Blanket shall be biodegradeable wood, straw or coconut-fiber mat enclosed in a photodegradable mesh.
2. Install per manufacturer's recommendations.
3. Use 6 inch, 11 ga. wire "U" staples. Longer or heavier gauge staples may be necessary for some soils.
4. Use Staple pattern shown, or per manufacturer's recommendation, whichever requires greater staple frequency.

Maintenance:
1. Inspect weekly, and after storm events. Especially at edges of blankets were erosion may undercut the material.
2. Repair and replace damaged material and eroded base areas immediately.
3. Restaple, and resecure as needed for erosion control.

2A Erosion Control Blanket
Example Only, Not to Scale



Maintenance:
1. Inspect weekly, and after storm events or heavy use.
2. Reshape as needed for drainage and runoff control.
3. Topdress with clean stone as required. Maintain minimum depth through construction.
4. Immediately remove mud and sediment tracked or washed onto public roads by sweeping or brushing.
5. Repair any broken pavement immediately.

1A STABILIZED CONSTRUCTION ENTRANCE
NOT TO SCALE

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Hammond, IN 46320

N

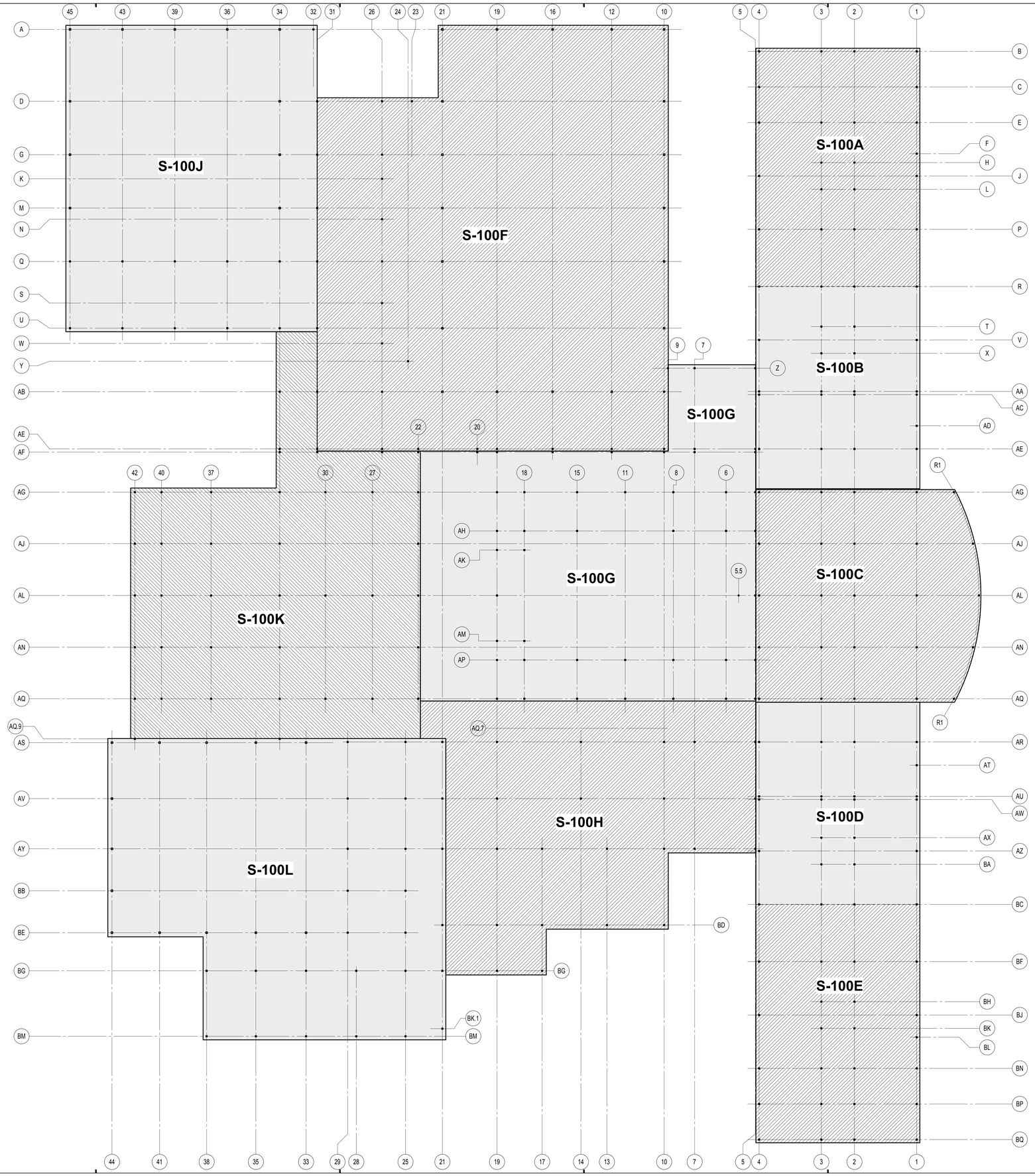
School City of Hammond

School City of Hammond

New Middle / High School for Hammond
BID PACKAGE I

SWPPP NOTES & DETAILS

CE502.1



1 OVERALL STRUCTURAL GRID LAYOUT
3/64" = 1'-0"

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Project Date 09.06.2018
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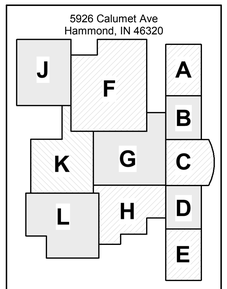


KEY PLAN

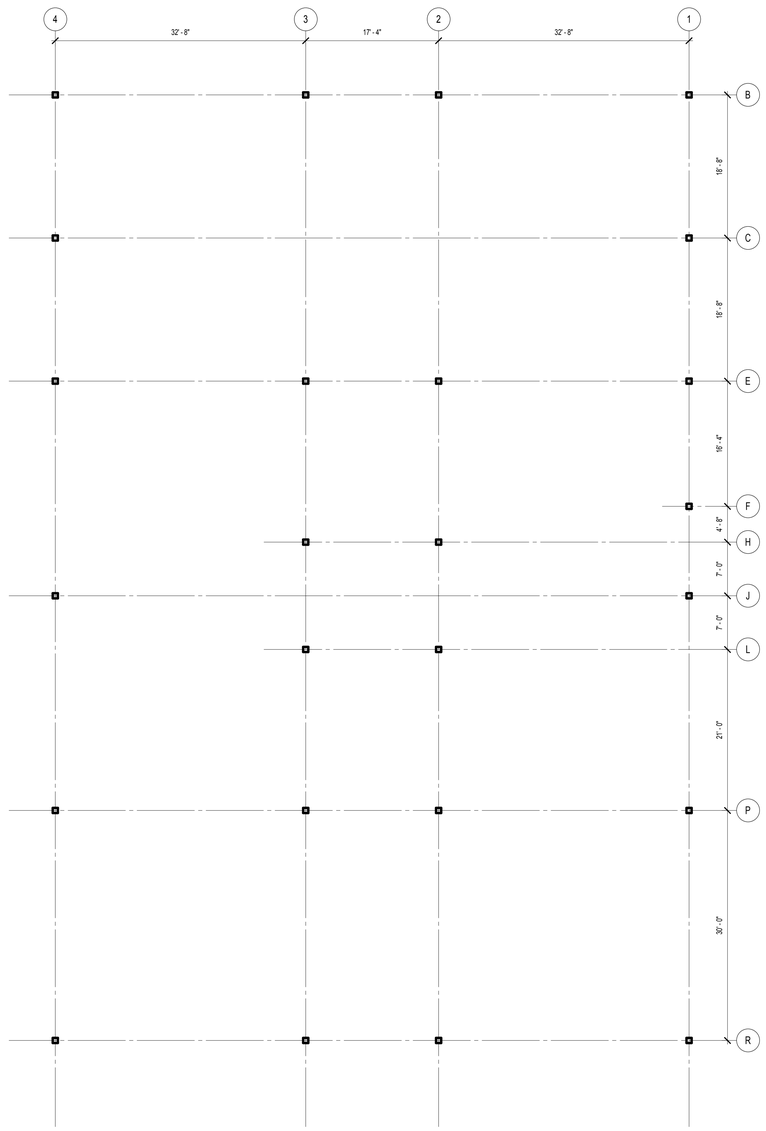
School City of Hammond

School City of Hammond

Hammond Middle High School

OVERALL GRID

S-100.1



1 STRUCTURAL GRID LAYOUT - UNIT A
1/8" = 1'-0"

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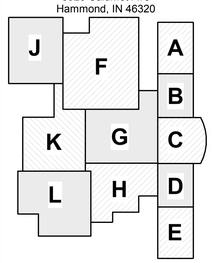


KEY PLAN

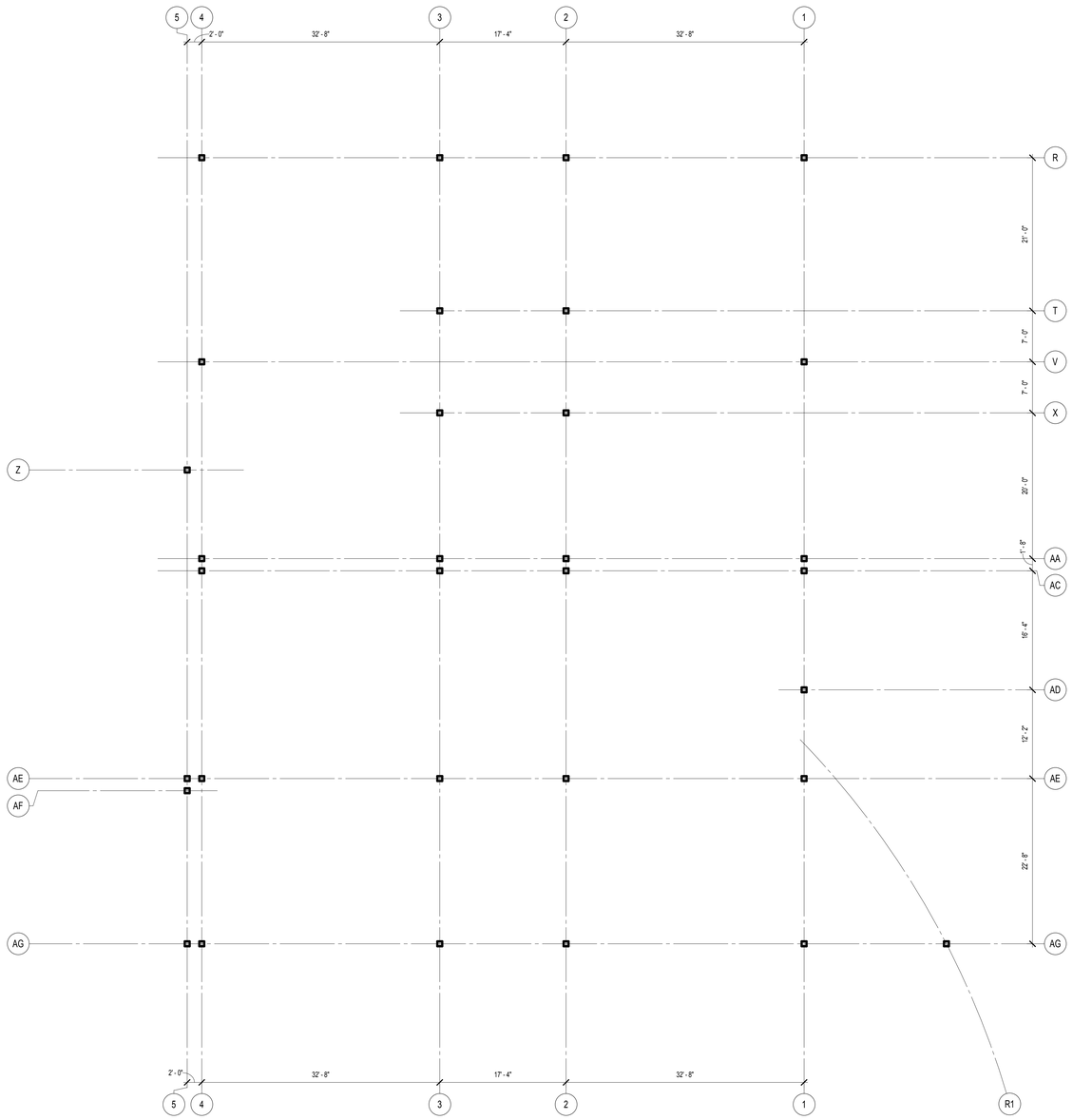
School City of Hammond

School City of Hammond

Hammond Middle High School

GRID LAYOUT - UNIT A

S-100A.1



1 STRUCTURAL GRID LAYOUT - UNIT B
1/8" = 1'-0"

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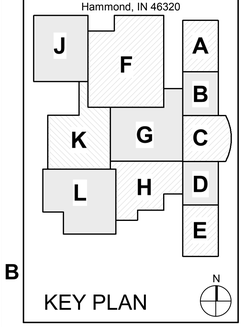


KEY PLAN

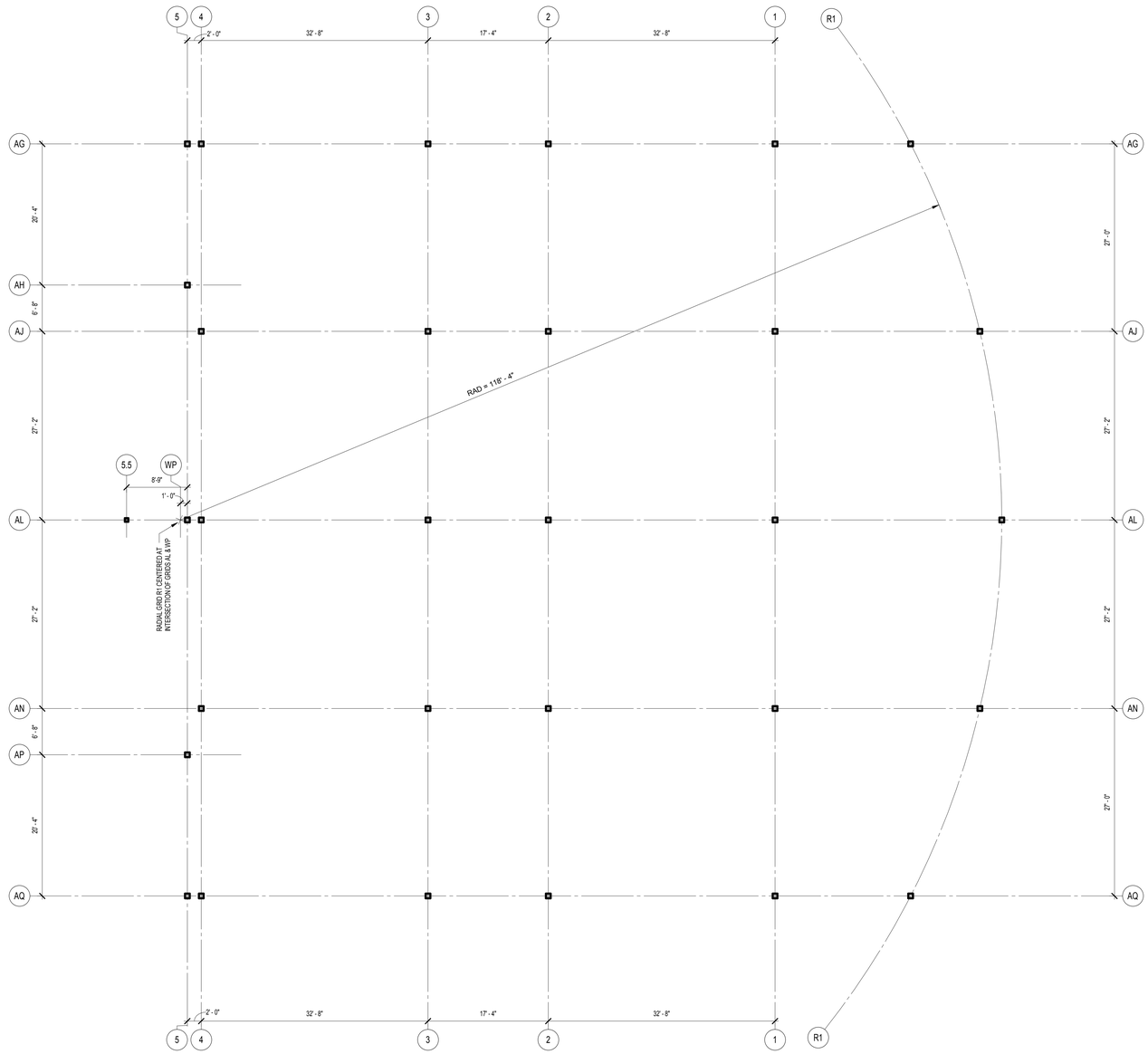
School City of Hammond

School City of Hammond

Hammond Middle High School

GRID LAYOUT - UNIT B

S-100B.1



1 STRUCTURAL GRID LAYOUT - UNIT C
1/8" = 1'-0"

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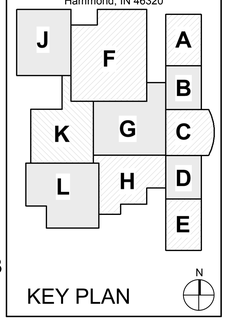


KEY PLAN

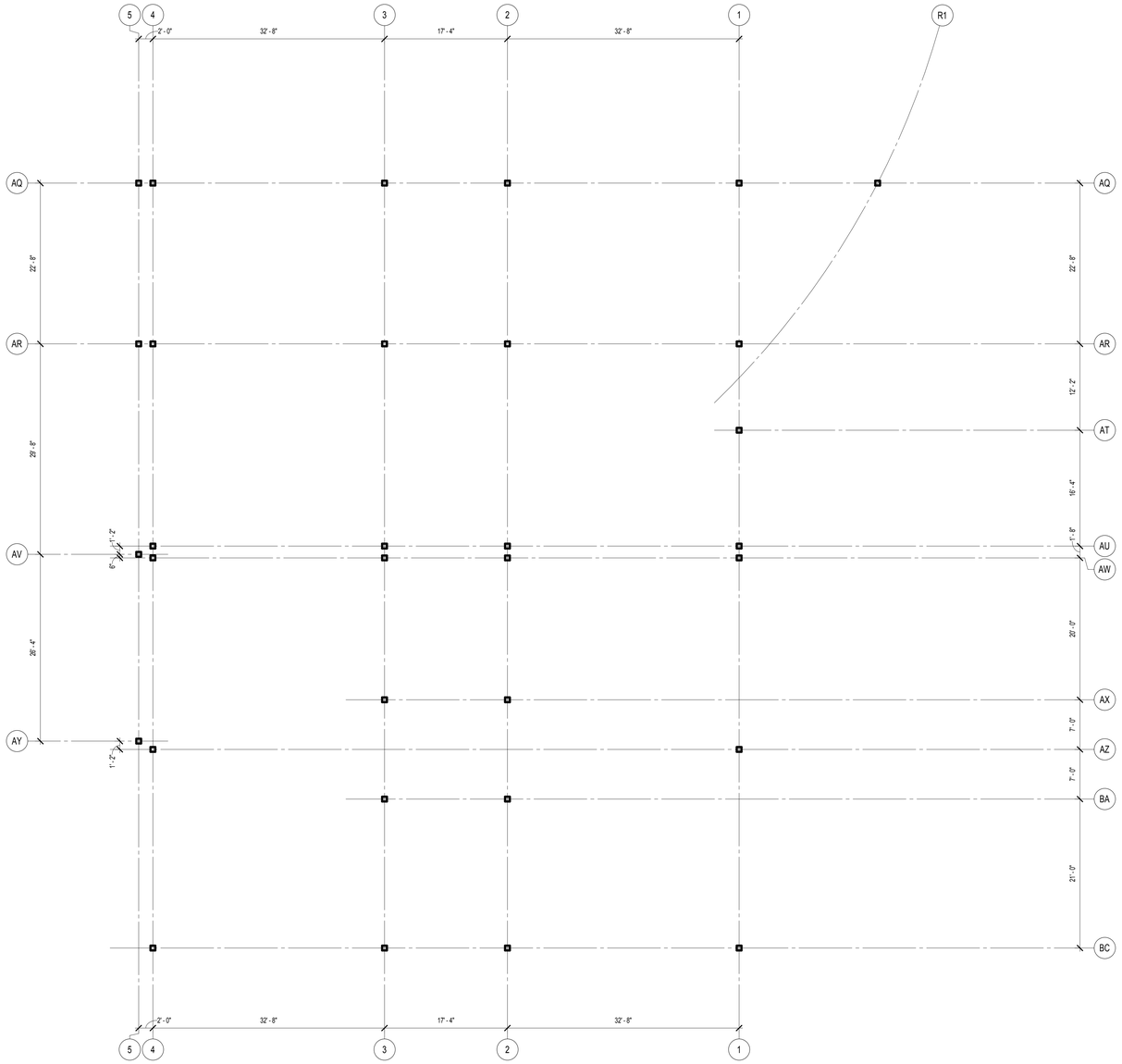
School City of Hammond

School City of Hammond

Hammond Middle High School

GRID LAYOUT - UNIT C

S-100C.1



1 STRUCTURAL GRID LAYOUT - UNIT D
1/8" = 1'-0"

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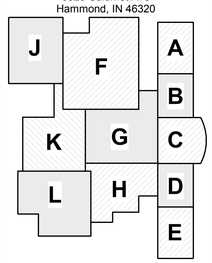


KEY PLAN

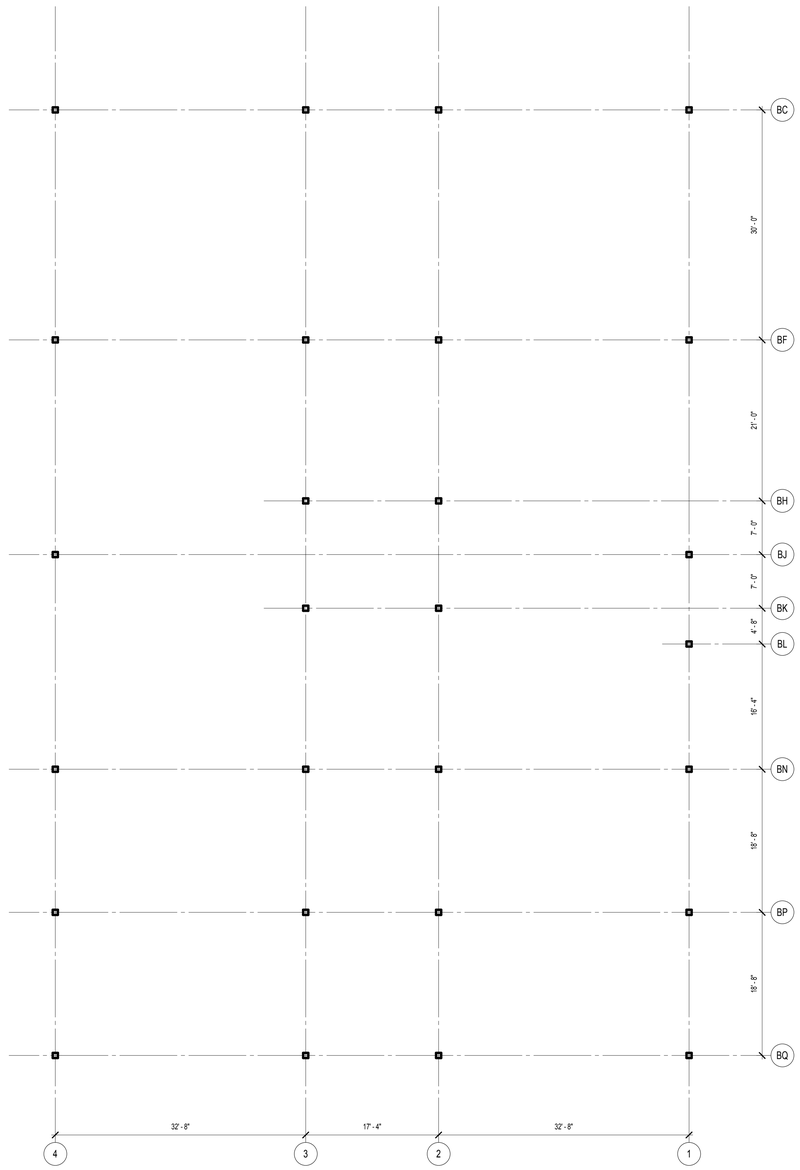
School City of Hammond

School City of Hammond

Hammond Middle High School

GRID LAYOUT - UNIT D

S-100D.1



1 STRUCTURAL GRID LAYOUT - UNIT E
1/8" = 1'-0"

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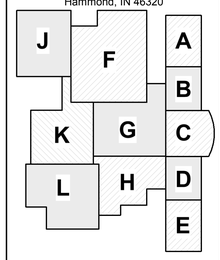

KEY PLAN

N

School City of Hammond

School City of Hammond

Hammond Middle High School

GRID LAYOUT - UNIT E

S-100E.1

S-100L1_GRIDLAYOUT - UNITE
2017-105.MHS - Hammond Middle School
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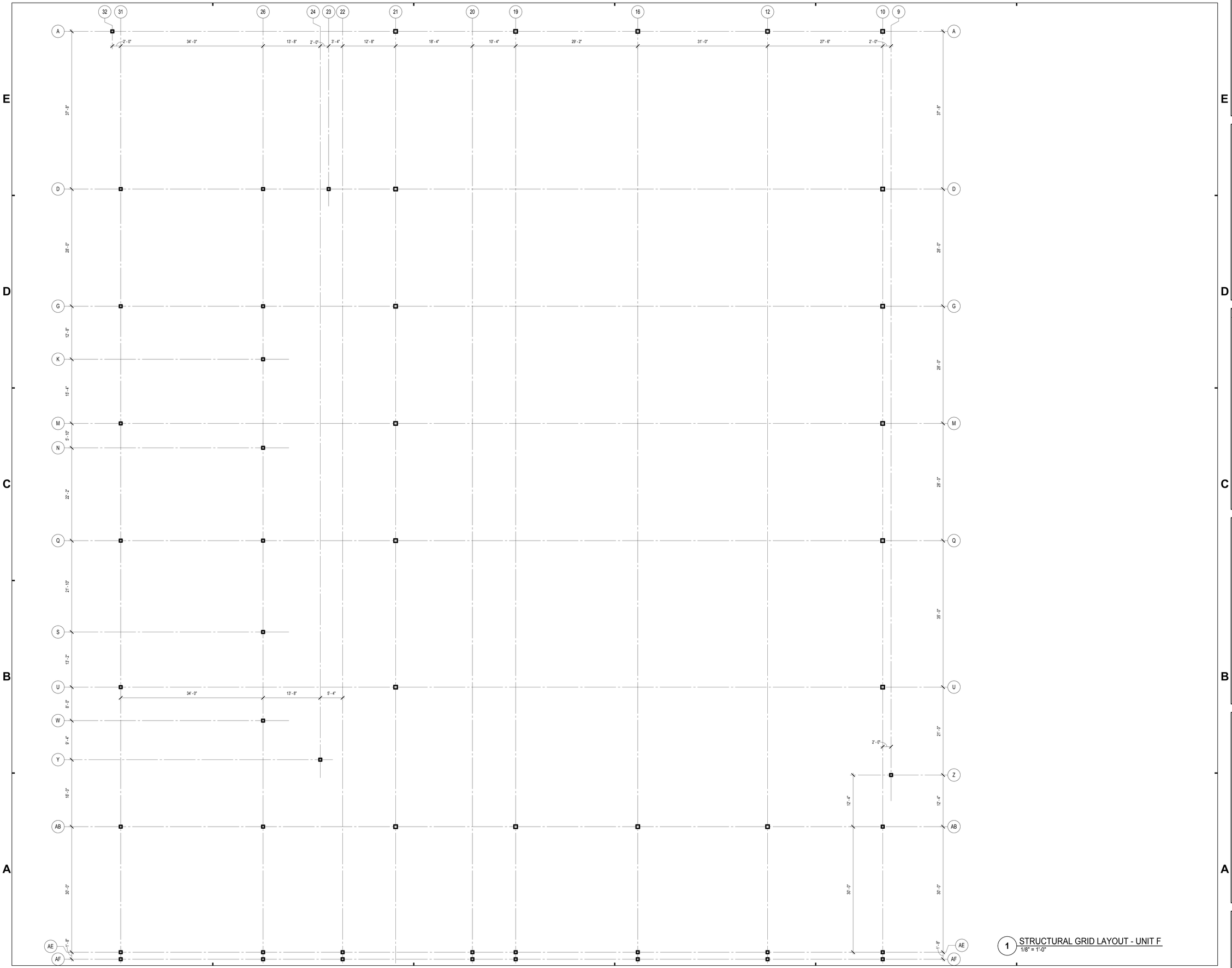
9/6/2018 12:16:10 PM



1 STRUCTURAL GRID LAYOUT - UNIT F
1/8" = 1'-0"

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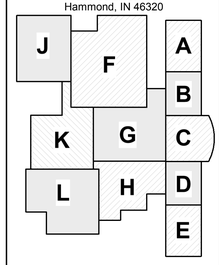


KEY PLAN

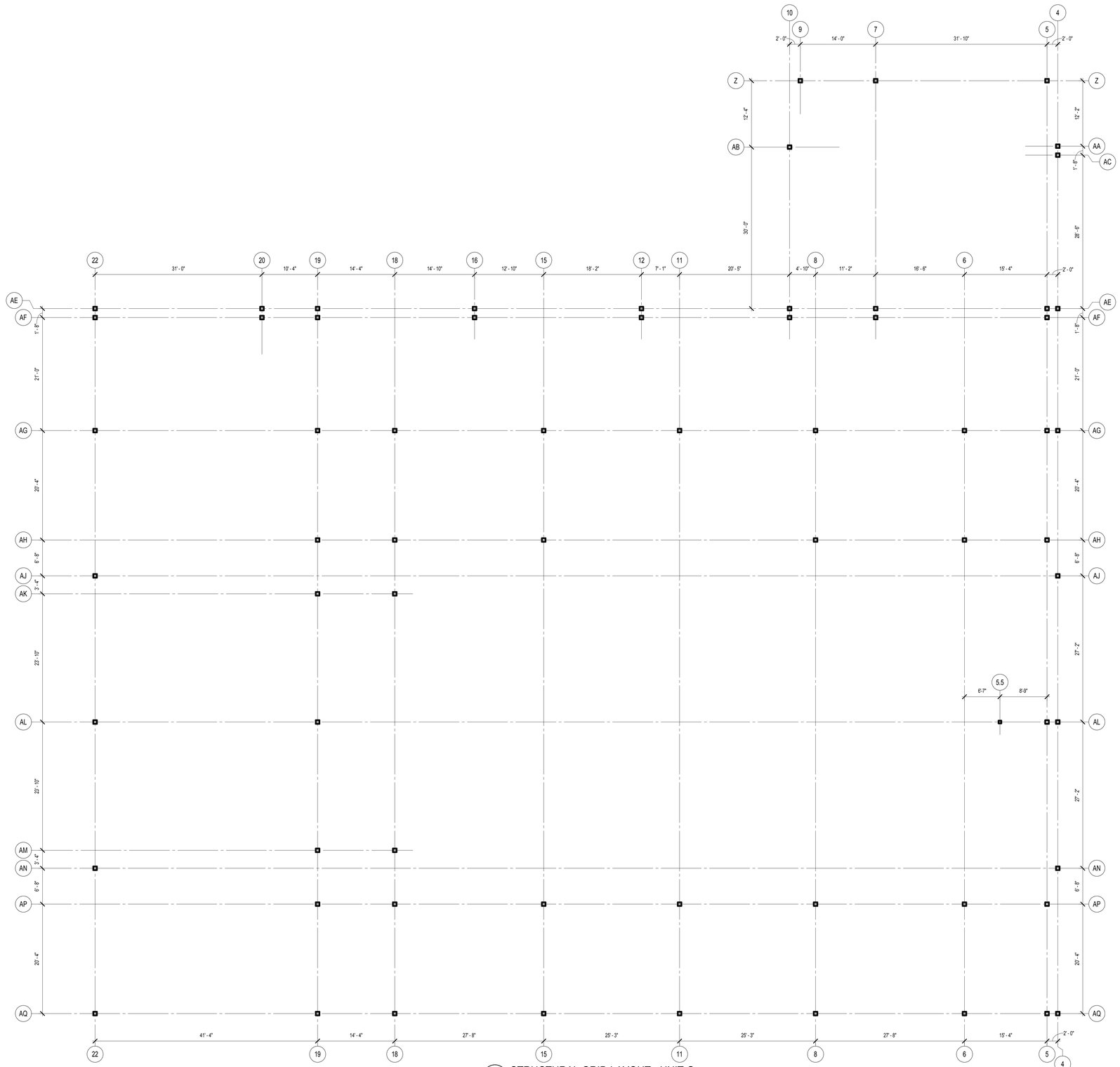
School City of Hammond

School City of Hammond

Hammond Middle High School

GRID LAYOUT - UNIT F

S-100F.1



1 STRUCTURAL GRID LAYOUT - UNIT G
1/8" = 1'-0"

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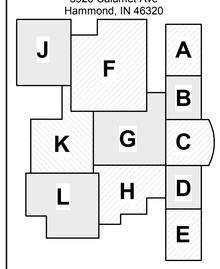


KEY PLAN

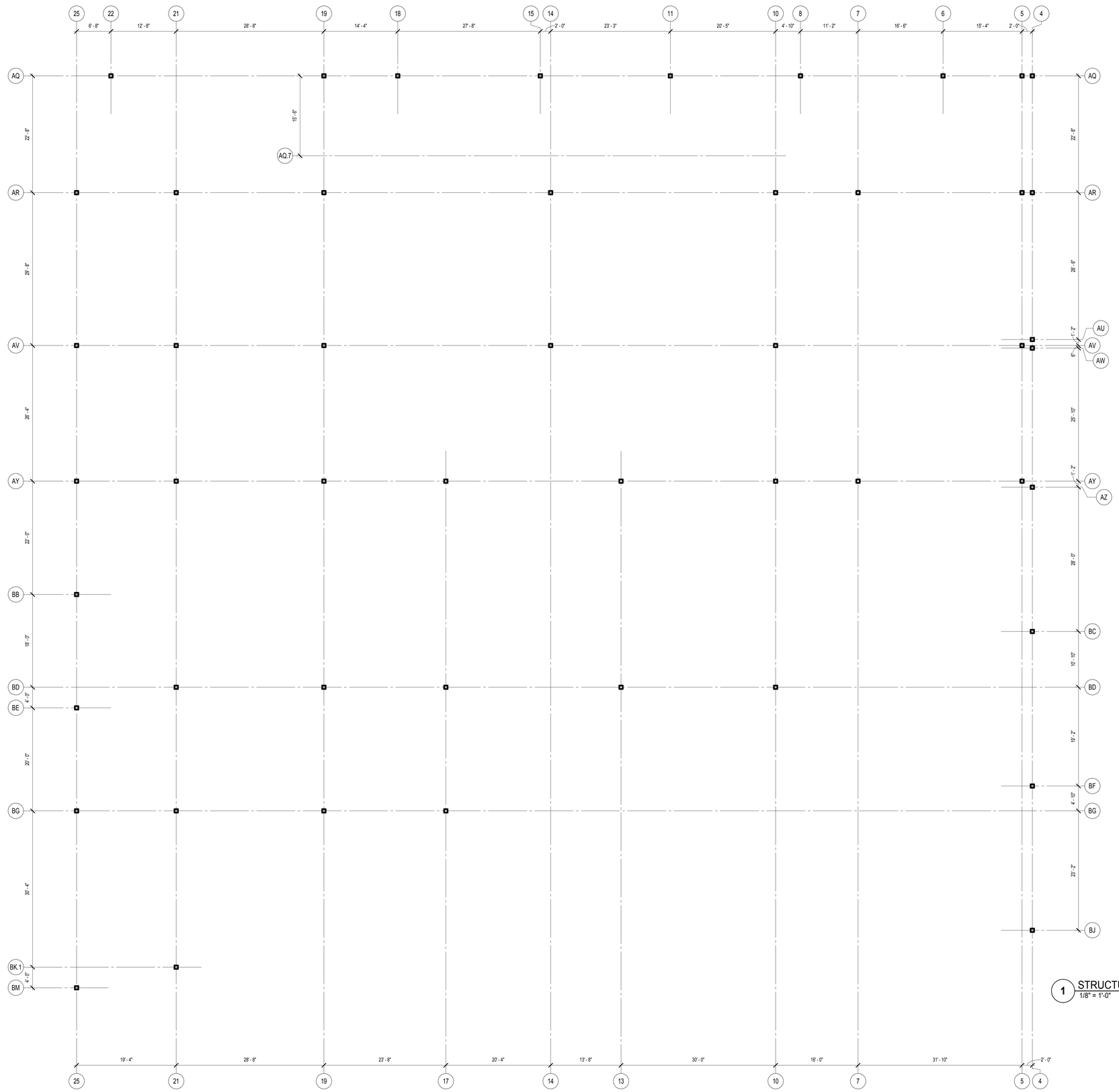
School City of Hammond

School City of Hammond

Hammond Middle High School

GRID LAYOUT - UNIT G

S-100G.1



1 STRUCTURAL GRID LAYOUT - UNIT H
1/8" = 1'-0"

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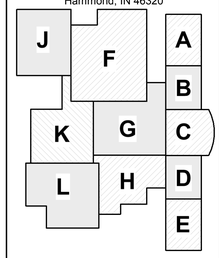


KEY PLAN

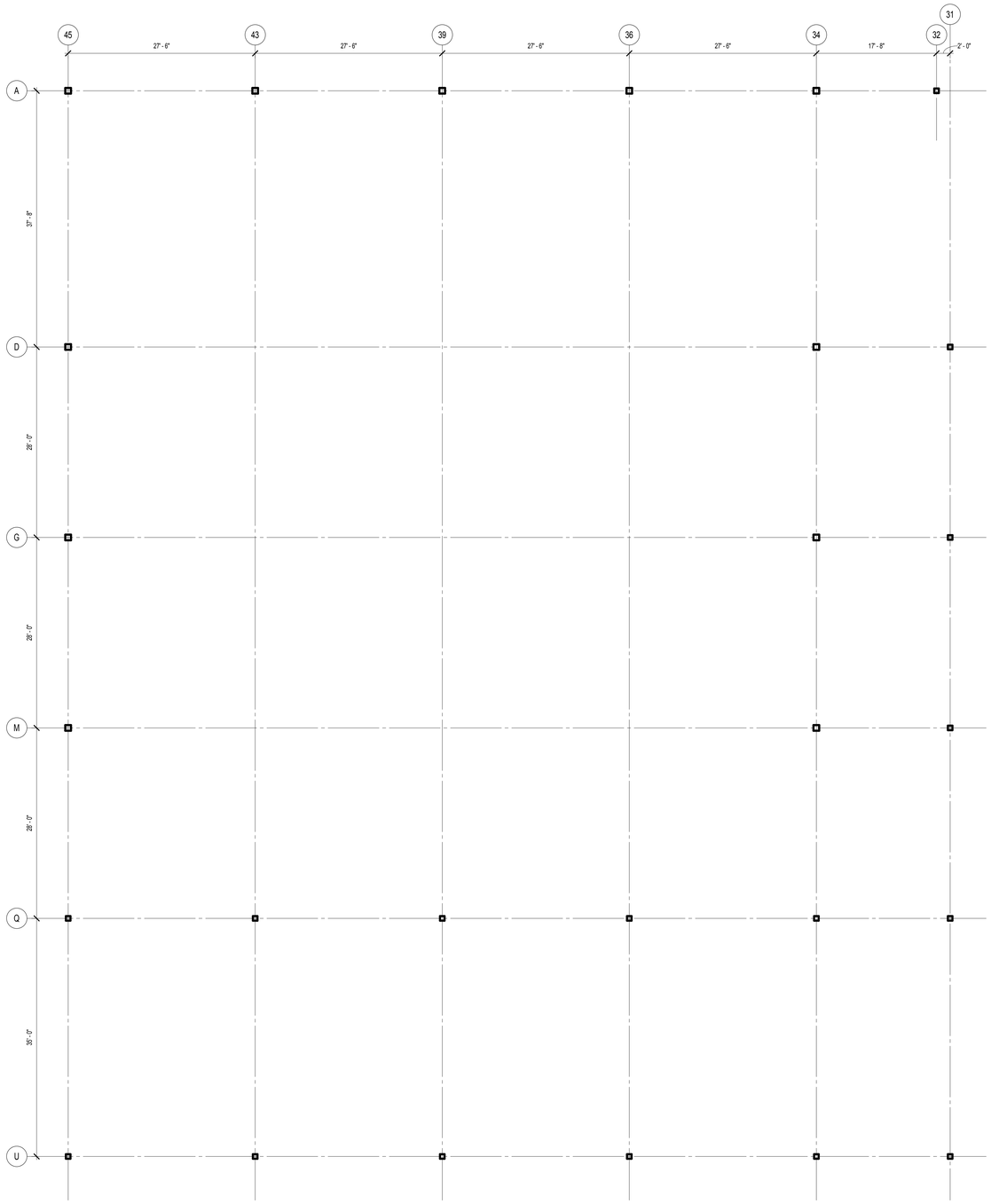
School City of Hammond

School City of Hammond

Hammond Middle High School

GRID LAYOUT - UNIT H

S-100H.1



1 STRUCTURAL GRID LAYOUT - UNIT J
1/8" = 1'-0"

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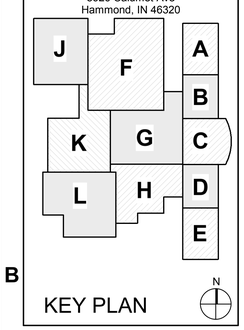


KEY PLAN

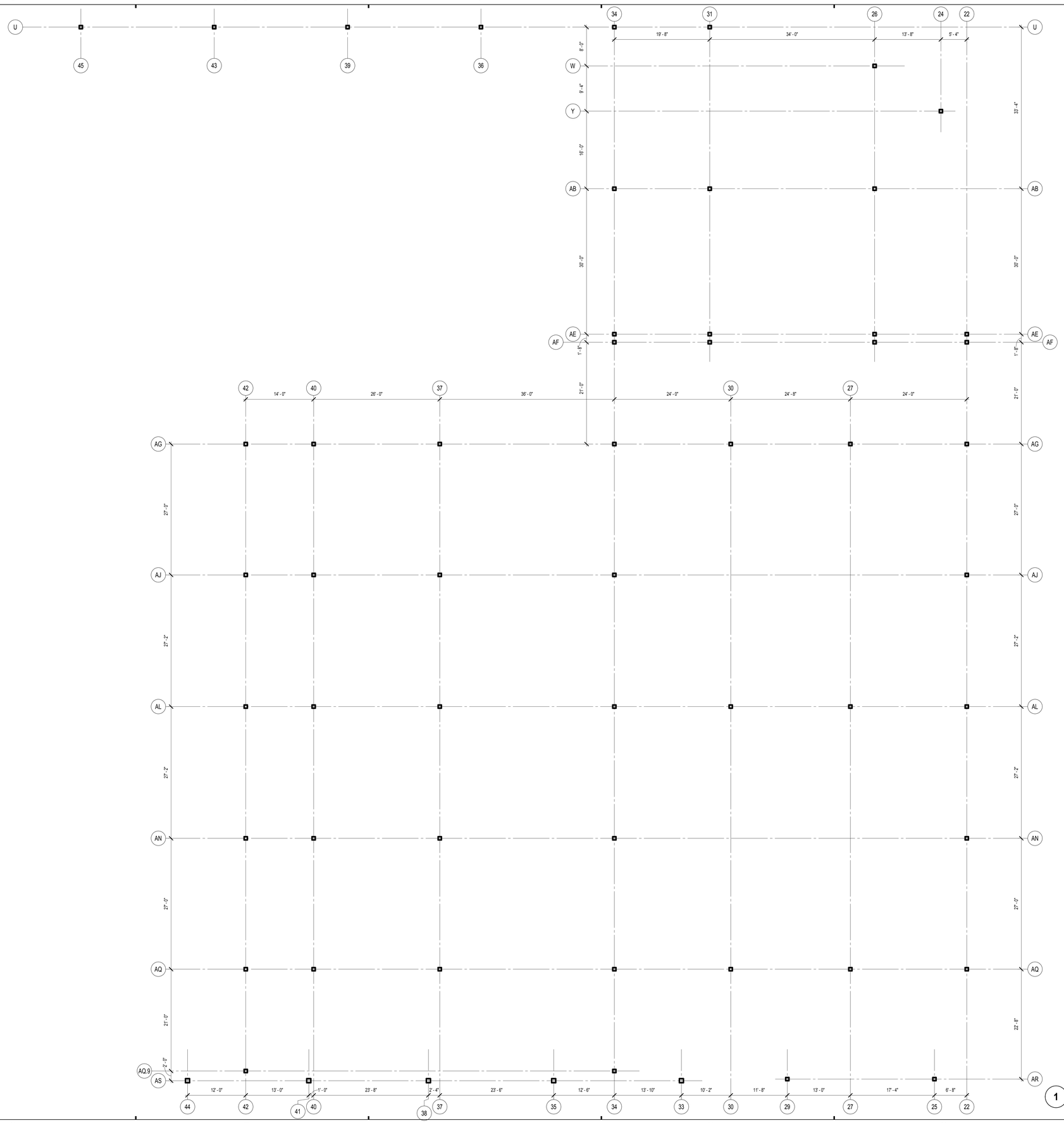
School City of Hammond

School City of Hammond

Hammond Middle High School

GRID LAYOUT - UNIT J

S-100J.1



1 STRUCTURAL GRID LAYOUT - UNIT K
1/8" = 1'-0"

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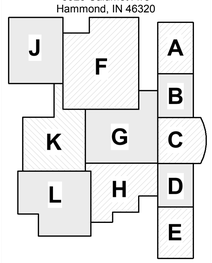


KEY PLAN

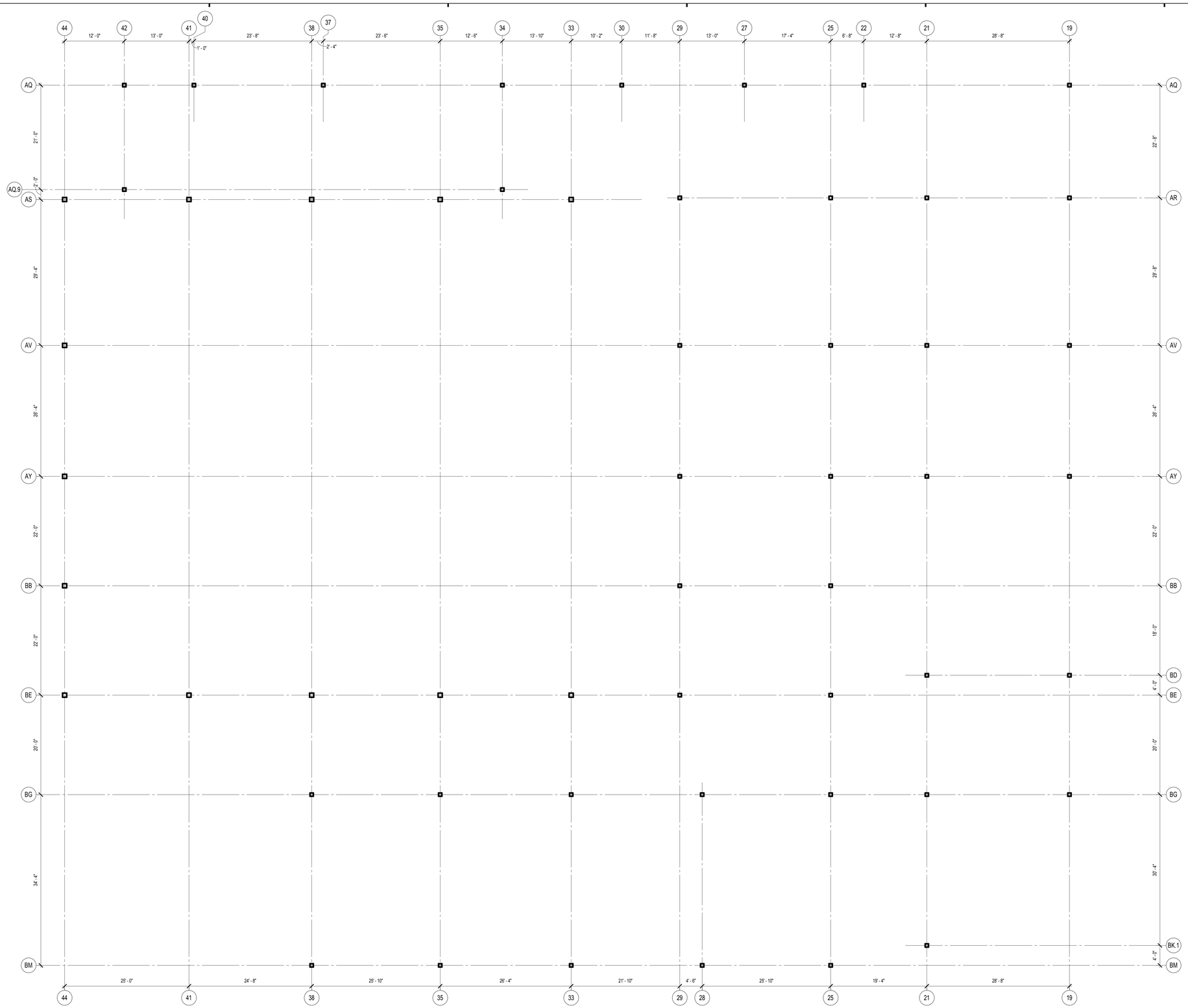
School City of Hammond

School City of Hammond

Hammond Middle High School

GRID LAYOUT - UNIT K

S-100K.1



1 STRUCTURAL GRID LAYOUT - UNIT L
1/8" = 1'-0"

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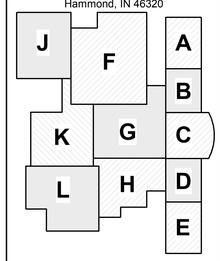


KEY PLAN

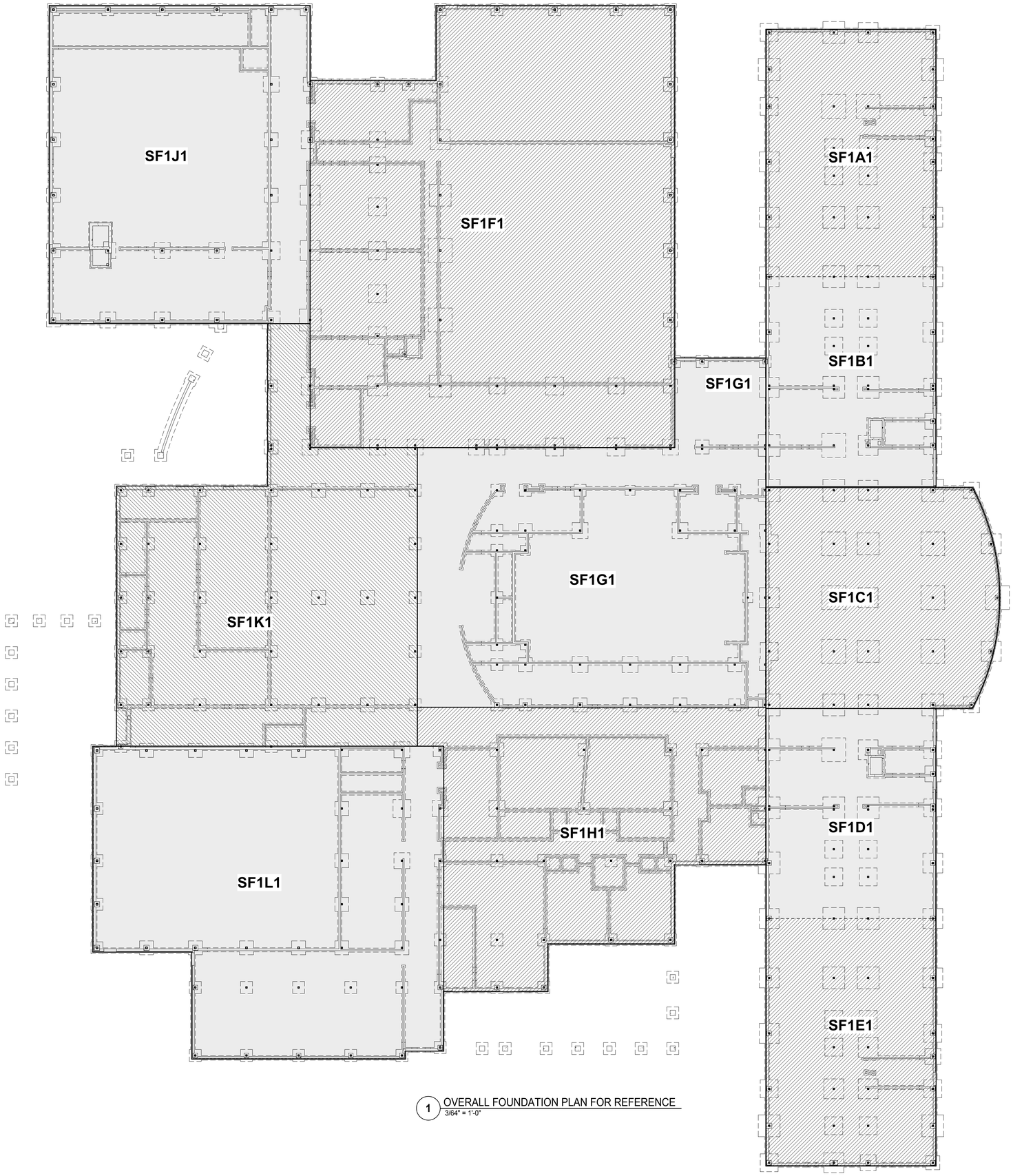
School City of Hammond

School City of Hammond

Hammond Middle High School

GRID LAYOUT - UNIT L

S-100L.1



1 OVERALL FOUNDATION PLAN FOR REFERENCE
3/64" = 1'-0"

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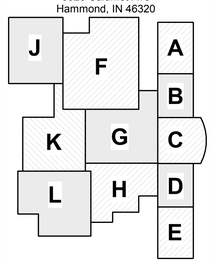

KEY PLAN

School City of Hammond

School City of Hammond

Hammond Middle High School

OVERALL FOUNDATION PLAN FOR REFERENCE

SF101.1

1 OVERALL 2ND FLOOR FRAMING PLAN FOR REFERENCE
3/64" = 1'-0"

2 OVERALL 3RD FLOOR FRAMING PLAN FOR REFERENCE
3/64" = 1'-0"

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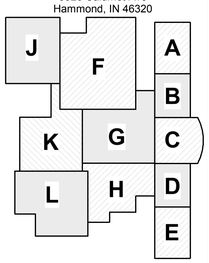


KEY PLAN

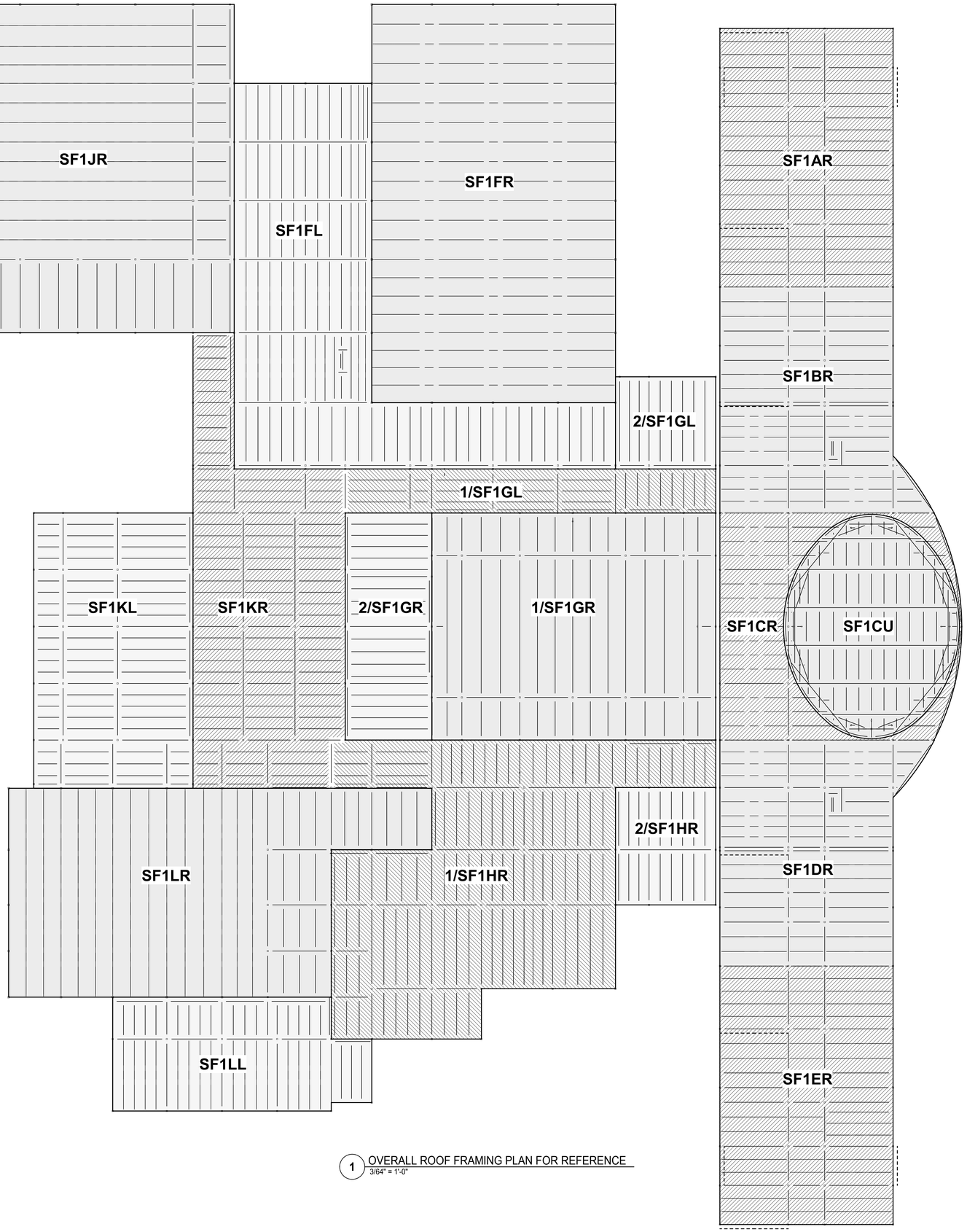
School City of Hammond

School City of Hammond

Hammond Middle High School

OVERALL FLOOR FRAMING PLANS FOR REFERENCE

SF102.1



1 OVERALL ROOF FRAMING PLAN FOR REFERENCE
3/64" = 1'-0"

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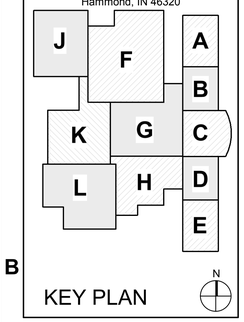


KEY PLAN

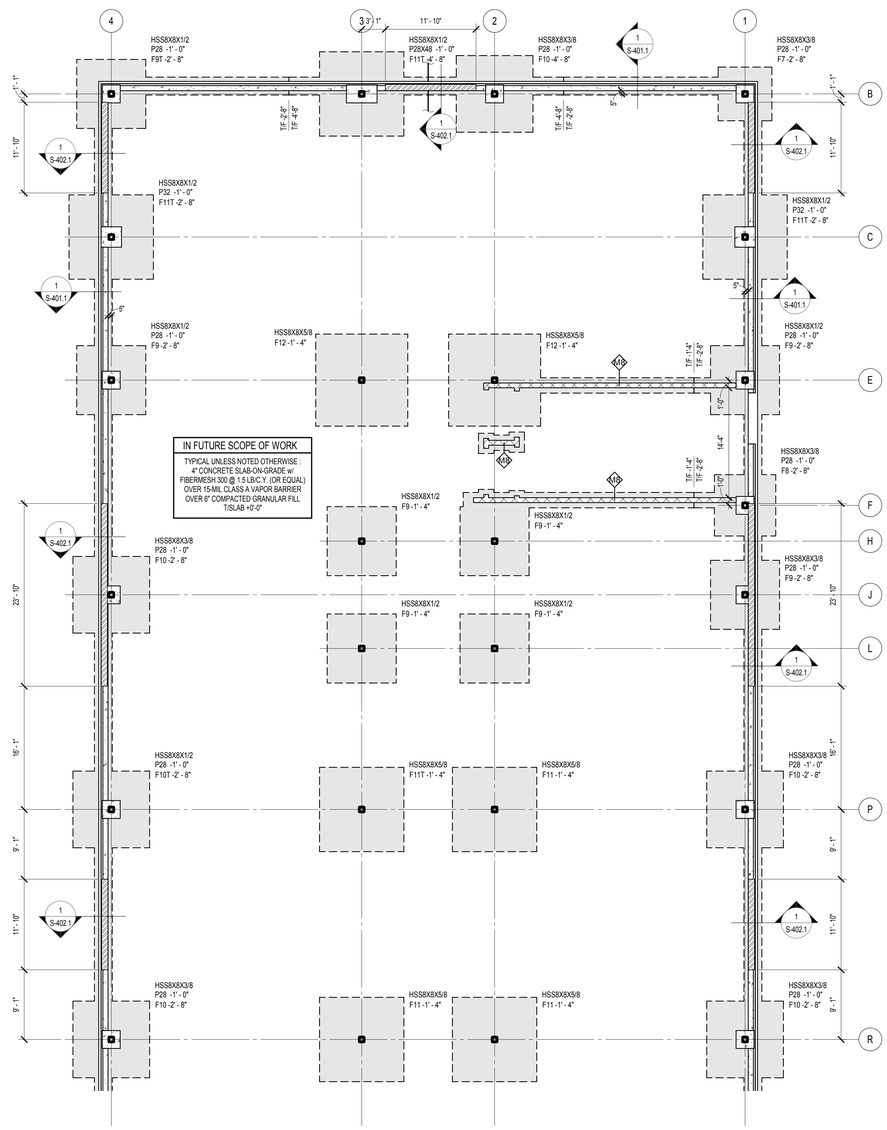
School City of Hammond

School City of Hammond

Hammond Middle High School

OVERALL ROOF FRAMING PLAN FOR REFERENCE

SF10R.1



1 FOUNDATION PLAN - UNIT A
1/8" = 1'-0"

FOUNDATION PLAN NOTES

1. REF. S-600 FOR STRUCTURAL NOTES, DESIGN DATA & SCHEDULES.

2. SEE SHEETS S-100, S-100A, S-100B, S-100C, ETC FOR GRID DIMENSIONS & GEOMETRY.

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8. NOTE: PERIMETER WALL AND COLUMN FOOTINGS SHALL BE LOWERED AND/OR SLEEVED TO PASS BELOW PLUMBING LINES (I.E. SANITARY & STORM SEWERS, WATER LINES, ETC.) SHOWN ON THE PLUMBING DRAWINGS. PROVIDE FOOTING STEPS AS REQUIRED PER TYPICAL DETAIL 22/S-400.

9. ALL SLAB RECESSES SHALL BE LOCATED PER THE ARCHITECTURAL DRAWINGS. COORDINATE DEPTHS OF ALL SLAB RECESSES WITH THE ARCHITECTURAL DRAWINGS AND/OR THE FLOORING SUPPLIER. SEE TYPICAL DETAIL 9/S-400.

10. COORDINATE REINFORCING DOWELS FOR CMU VERTICAL REINFORCING WITH REINF. NOTED ON PLANS & SECTIONS.

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12. COLUMN FOOTINGS AND WALL FOOTINGS SHALL BEAR ON APPROVED SOIL. UNDERCUT AS REQ'D TO SUITABLE BEARING MATERIAL AS DETERMINED BY THE GEOTECHNICAL TESTING AGENCY. REF. TYPICAL FOOTING UNDERCUT DETAILS 20 & 21 ON S-400.

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14. PROVIDE THICKENED SLAB UNDER ALL INTERIOR CMU WALLS WITHOUT FOOTINGS. SEE TYPICAL DETAIL 5/S-400. PROVIDE 8" THICKENED SLABS BELOW BASE OF ALL STAIRS AND BELOW INTERIOR BRICK PILASTERS EXTENDING APPROXIMATELY 20" BEYOND PILASTER. COORDINATE DIMENSIONS WITH FINAL ARCHITECTURAL CONSTRUCTION DOCUMENTS.

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T/C	DENOTES TOP OF CONCRETE ELEVATION
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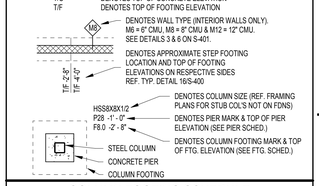

COLUMN FOOTING SCHEDULE

FOOTING MARK	FOOTING SIZE WIDTH	x LENGTH	x DEPTH	REINFORCING (EACH WAY U.N.O.)
F5	5'-0"	5'-0"	1'-2"	(5) #5 x 4'-6"
F6	6'-0"	6'-0"	1'-2"	(6) #6 x 5'-6"
F7	7'-0"	7'-0"	1'-4"	(7) #6 x 6'-6"
F8	8'-0"	8'-0"	1'-6"	(8) #7 x 7'-6"
F8T	8'-0"	8'-0"	1'-6"	(8) #7 x 7'-6" TOP & BOTTOM
F9	9'-0"	9'-0"	1'-8"	(9) #7 x 8'-6"
F9T	9'-0"	9'-0"	1'-8"	(9) #7 x 8'-6" TOP & BOTTOM
F10	10'-0"	10'-0"	1'-10"	(10) #8 x 9'-6"
F10T	10'-0"	10'-0"	1'-10"	(10) #8 x 9'-6" TOP & BOTTOM
F11	11'-0"	11'-0"	2'-0"	(11) #8 x 10'-6"
F11T	11'-0"	11'-0"	2'-0"	(11) #8 x 10'-6" TOP & BOTTOM
F12	12'-0"	12'-0"	2'-2"	(12) #8 x 11'-6"

NOTES:

1. CENTER FOOTINGS BENEATH COLUMNS, U.N.O.
2. ALL FOOTINGS SHALL BE BOARD-FORMED, UNLESS APPROVED IN WRITING BY A/E.
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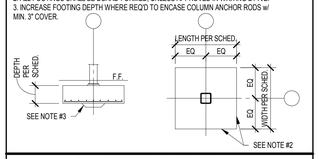


CONCRETE PIER SCHEDULE

PIER MARK	PIER SIZE		PIER REINFORCING VERTICALS	TIES-SIZE & SPACING	DETAIL
P28	2'-4"	2'-4"	(4) #9	#4 @ 12" O.C.	A
P32	2'-8"	2'-8"	(4) #10	#4 @ 12" O.C.	A
P28X48	2'-4"	4'-0"	(8) #9	#4 @ 12" O.C.	E

1. PROVIDE MIN. 1-1/2" CLEAR TO PIER TIES.

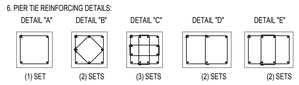
2. "CRITICAL HEIGHT" DENOTES HT. ABOVE WHICH LARGER DIA. VERTICALS WITH FEWER TIES MAY BE USED. REFER TO FOUNDATION PLAN(S) FOR T/P & T/F ELEV'S.

3. TYPICAL TIE SPACING, UNLESS NOTED OTHERWISE: HOLD FIRST TIE 2" FROM TOP OF PIER. HOLD NEXT THREE TIES 3" ON CENTER, SPACE BALANCE OF TIES AT SCHEDULED SPACING, WITH BOTTOM TIE HELD 2" ABOVE TOP OF FOOTING.

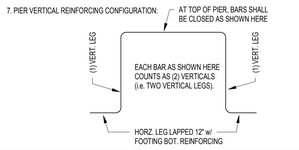
4. DOWELS TO FUNCTION AS PIER VERTS FOR PIERS LESS THAN OR EQ. TO 5'-0" H. PROVIDE SEPARATE DOWELS & VERTICALS FOR PIERS GREATER THAN OR EQUAL TO 5'-0" H, UNLESS APPROVED.

5. CONTACT ENGINEER FOR DIRECTION IF COLUMN ANCHOR RODS FOUL WITH PIER TIES OR VERTICALS. FOR TIE DETAILS "C" & "E", REBAR DETAILER SHALL SIZE TIES TO AVOID CONFLICTS WITH COLUMN ANCHOR RODS.

6. PIER TIE REINFORCING DETAILS:



7. PIER VERTICAL REINFORCING CONFIGURATION:



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Indianapolis, IN 46204
www.schmidt-arch.com

Project No. 2017-105.MHS
Project Date 09.06.2018
Produced RMD

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PE60860410
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Indiana
PROFESSIONAL ENGINEER

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#	Revision	Date

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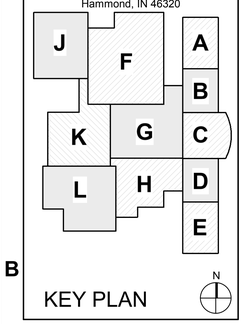
Hammond, IN 46320



KEY PLAN

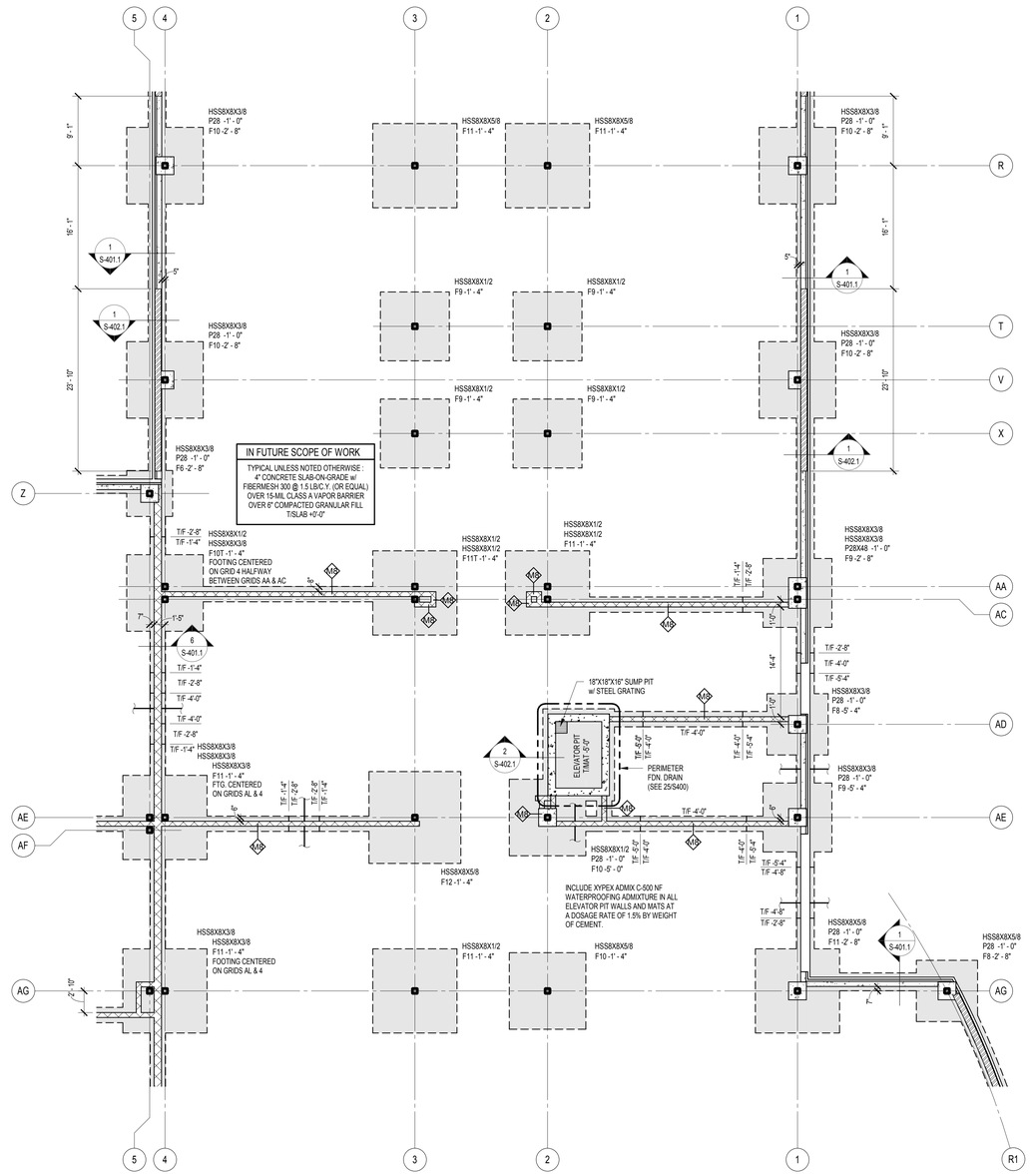
School City of Hammond

School City of Hammond

Hammond Middle High School

UNIT A FOUNDATION PLAN

SF1A1.1



1 FOUNDATION PLAN - UNIT B
1/8" = 1'-0"

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1. REF. S-600 FOR STRUCTURAL NOTES, DESIGN DATA & SCHEDULES.

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M8	DENOTES WALL TYPE (INTERIOR WALLS ONLY). M8 = 8" CMU, M8 = 8" CMU & MI2 = 12" CMU. SEE DETAILS 3 & 6 ON S-401.
T/E -2'-6" / T/F -4'-0"	DENOTES APPROXIMATE STEP FOOTING LOCATION AND TOP OF FOOTING ELEVATIONS ON RESPECTIVE SIDES REF. TYP. DETAIL 16/S-400
HSS8X8X1/2 P28 -1'- 0" F8.0 -2'- 8"	DENOTES COLUMN SIZE (REF. FRAMING PLANS FOR STUB COL'S NOT ON FDNS) DENOTES PIER MARK & TOP OF PIER ELEVATION (SEE PIER SCHED.) DENOTES COLUMN FOOTING MARK & TOP OF FTG. ELEVATION (SEE FTG. SCHED.)
STEEL COLUMN	
CONCRETE PIER	
COLUMN FOOTING	

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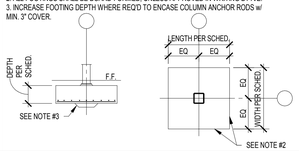

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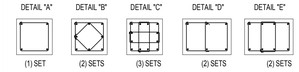

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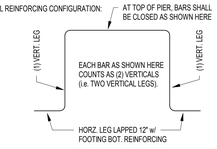

SCHMIDT ASSOCIATES
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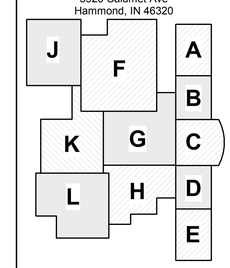

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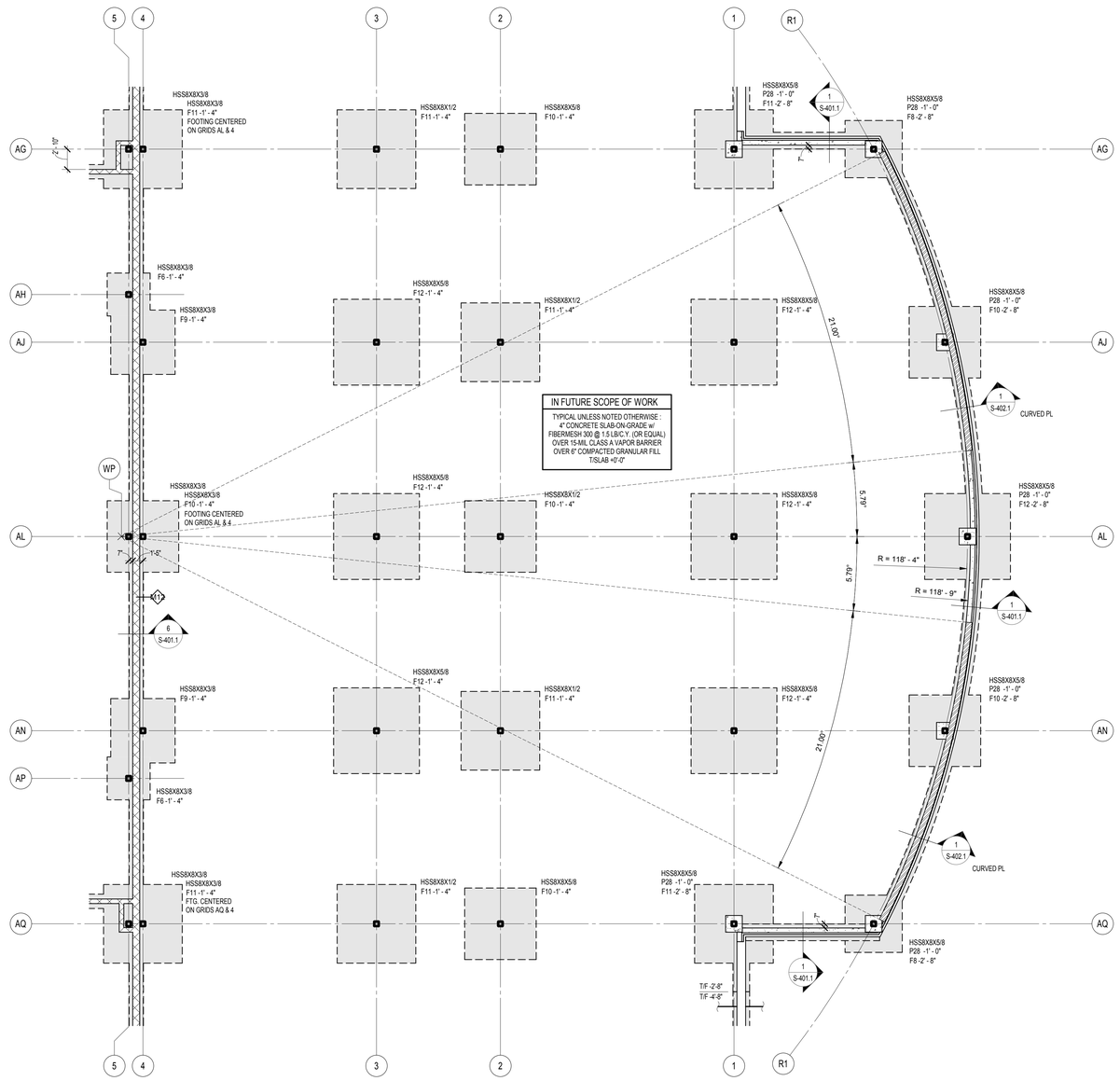
Hammond Middle High School

UNIT B FOUNDATION PLAN

SF1B1.1



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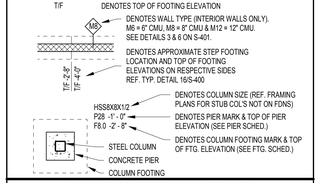

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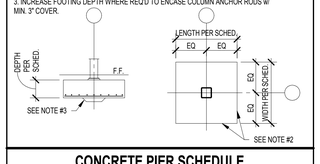
F10T	10'-0"	10'-0"	1'-10"	(10) #8 x 9'-6" TOP & BOTTOM
F11	11'-0"	11'-0"	2'-0"	(11) #8 x 10'-6"
F11T	11'-0"	11'-0"	2'-0"	(11) #8 x 10'-6" TOP & BOTTOM
F12	12'-0"	12'-0"	2'-2"	(12) #8 x 11'-6"

NOTES:

1. CENTER FOOTINGS BENEATH COLUMNS, U.N.O.
2. ALL FOOTINGS SHALL BE BOARD-FORMED, UNLESS APPROVED IN WRITING BY A/E.
3. INCREASE FOOTING DEPTH WHERE REQ'D TO ENCASE COLUMN ANCHOR RODS w/ MIN. 3" COVER.



CONCRETE PIER SCHEDULE

PIER MARK	PIER SIZE		PIER REINFORCING VERTICALS	TIES-SIZE & SPACING	DETAIL
P28	2'-4"	2'-4"	(4) #9	#4 @ 12" O.C.	A
P32	2'-8"	2'-8"	(4) #10	#4 @ 12" O.C.	A
P28X48	2'-4"	4'-0"	(8) #9	#4 @ 12" O.C.	E

1. PROVIDE MIN. 1-1/2" CLEAR TO PIER TIES.

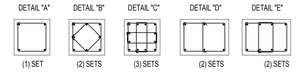
2. 'CRITICAL HEIGHT' DENOTES HT. ABOVE WHICH LARGER DIA. VERTICALS WITH FEWER TIES MAY BE USED. REFER TO FOUNDATION PLAN(S) FOR T/P & T/F ELEV'S.

3. TYPICAL TIE SPACING, UNLESS NOTED OTHERWISE: HOLD FIRST TIE 2" FROM TOP OF PIER. HOLD NEXT THREE TIES 3" ON CENTER, SPACE BALANCE OF TIES AT SCHEDULED SPACING, WITH BOTTOM TIE HELD 2" ABOVE TOP OF FOOTING.

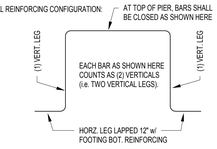
4. DOWELS TO FUNCTION AS PIER VERT'S FOR PIERS LESS THAN OR EQ. TO 5'-0" H. PROVIDE SEPARATE DOWELS & VERTICALS FOR PIERS GREATER THAN OR EQUAL TO 5'-0" H, UNLESS APPROVED.

5. CONTACT ENGINEER FOR DIRECTION IF COLUMN ANCHOR RODS FOUL WITH PIER TIES OR VERTICALS. FOR TIE DETAILS "C" & "E", REBAR DETAILER SHALL SIZE TIES TO AVOID CONFLICTS WITH COLUMN ANCHOR RODS.

6. PIER TIE REINFORCING DETAILS:



7. PIER VERTICAL REINFORCING CONFIGURATION:



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#	Revision	Date

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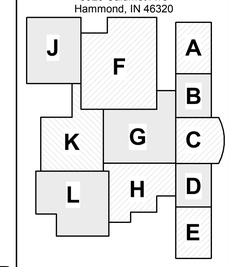


KEY PLAN

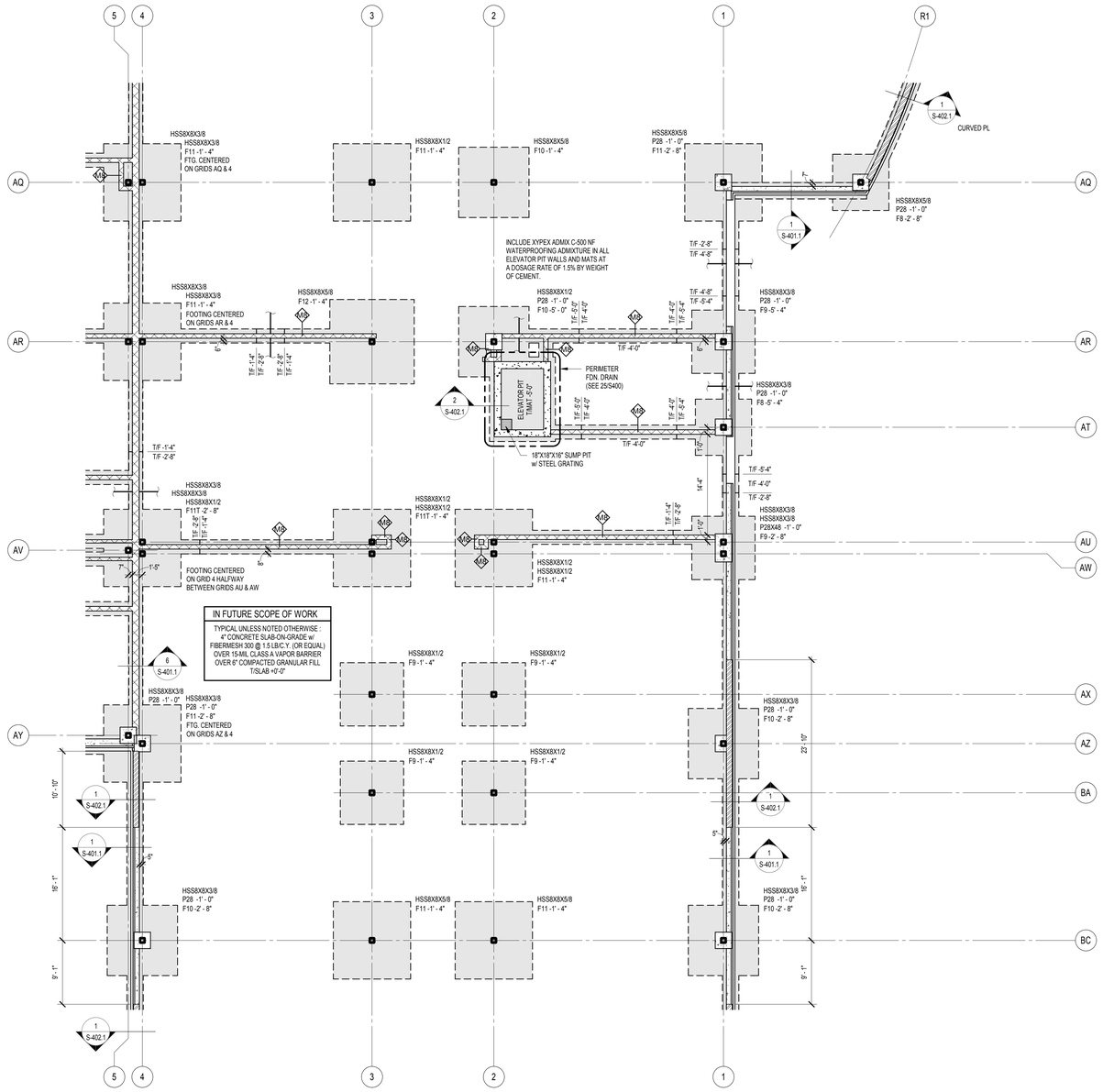
School City of Hammond

School City of Hammond

Hammond Middle High School

UNIT C FOUNDATION PLAN

SF1C1.1



1 FOUNDATION PLAN - UNIT D
1/8" = 1'-0"

FOUNDATION PLAN NOTES

1. REF. S-600 FOR STRUCTURAL NOTES, DESIGN DATA & SCHEDULES.

2. SEE SHEETS S-100, S-100A, S-100B, S-100C, ETC FOR GRID DIMENSIONS & GEOMETRY.

3. ALL CONTRACTORS ARE REQUIRED TO COORDINATE THEIR WORK WITH ALL DISCIPLINES TO AVOID CONFLICTS. THE MECHANICAL, ELECTRICAL, AND PLUMBING ASPECTS ARE NOT IN THE SCOPE OF THESE DRAWINGS. THEREFORE, ALL REQUIRED MATERIALS AND WORK MAY NOT BE INDICATED.

4. COORDINATE EXACT SIZE & LOCATION OF ALL MECHANICAL OPENINGS IN FOUNDATION WALLS WITH THE MECHANICAL, ELECTRICAL & PLUMBING CONTRACTORS.

5. ALL ELEVATIONS ARE REFERENCED FROM THE FIRST FLOOR FINISHED FLOOR ELEVATION +0'-0" (SEE CIVIL DRAWINGS FOR U.S.G.S.).

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7. REF. S-400 FOR TYPICAL FOUNDATION DETAILS.

8. NOTE: PERIMETER WALL AND COLUMN FOOTINGS SHALL BE LOWERED AND/OR SLEEVED TO PASS BELOW PLUMBING LINES (I.E. SANITARY & STORM SEWERS, WATER LINES, ETC.) SHOWN ON THE PLUMBING DRAWINGS. PROVIDE FOOTING STEPS AS REQUIRED PER TYPICAL DETAIL 22/S-400.

9. ALL SLAB RECESSES SHALL BE LOCATED PER THE ARCHITECTURAL DRAWINGS. COORDINATE DEPTHS OF ALL SLAB RECESSES WITH THE ARCHITECTURAL DRAWINGS AND/OR THE FLOORING SUPPLIER. SEE TYPICAL DETAIL 9/S-400.

10. COORDINATE REINFORCING DOWELS FOR CMU VERTICAL REINFORCING WITH REINF. NOTED ON PLANS & SECTIONS.

11. GROUT ALL CORES OF CMU BELOW FINISH FLOOR SOLID.

12. COLUMN FOOTINGS AND WALL FOOTINGS SHALL BEAR ON APPROVED SOIL. UNDERCUT AS REQ'D TO SUITABLE BEARING MATERIAL AS DETERMINED BY THE GEOTECHNICAL TESTING AGENCY. REF. TYPICAL FOOTING UNDERCUT DETAILS 20 & 21 ON S-400.

13. COLUMN FOOTINGS SUPPORTING MORE THAN ONE COLUMN SHALL BE CENTERED AT THE MIDPOINT BETWEEN THE COLUMNS, UNLESS NOTED OTHERWISE ON PLAN.

14. PROVIDE THICKENED SLAB UNDER ALL INTERIOR CMU WALLS WITHOUT FOOTINGS. SEE TYPICAL DETAIL 5/S-400. PROVIDE 8" THICKENED SLABS BELOW BASE OF ALL STAIRS AND BELOW INTERIOR BRICK PILASTERS EXTENDING APPROXIMATELY 20" BEYOND PILASTER. COORDINATE DIMENSIONS WITH FINAL ARCHITECTURAL CONSTRUCTION DOCUMENTS.

15. PROVIDE CONTROL/CONTRACTION JOINTS IN SLABS-ON-GRADE ALONG COLUMN CENTERLINES AND INTERMITTENTLY AT A MAXIMUM SPACING OF 36 X SLAB THICKNESS (I.E. 12' O.C. MAX FOR 4" THICK SLAB). ALL JOINTS IN SLABS TO RECEIVE THIN OR THICK-SET TERRAZZO, CERAMIC OR PORCELAIN TILE, VINYL-COMPOSITION TILE (VCT) OR VINYL SHEET GOODS, EPOXY OR SIMILAR THIN-FILM FINISH FLOORING SHALL BE CAREFULLY COORDINATED WITH THE FLOORING CONTRACTOR. SEE DETAIL 7/S-400.

16. PLAN LEGEND:

T.S.	DENOTES THICKENED SLAB BELOW BASE OF STAIRS & INTERIOR BRICK PILASTERS/WALLS (SEE NOTE 14 ABOVE).
F.F. / FFE	DENOTES FINISHED FLOOR ELEVATION
T/C	DENOTES TOP OF CONCRETE ELEVATION
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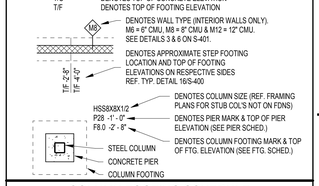

COLUMN FOOTING SCHEDULE

FOOTING MARK	FOOTING SIZE WIDTH	x LENGTH	x DEPTH	REINFORCING (EACH WAY U.N.O.)
F5	5'-0"	5'-0"	1'-2"	(5) #5 x 4'-6"
F6	6'-0"	6'-0"	1'-2"	(6) #6 x 5'-6"
F7	7'-0"	7'-0"	1'-4"	(7) #6 x 6'-6"
F8	8'-0"	8'-0"	1'-6"	(8) #7 x 7'-6"
F8T	8'-0"	8'-0"	1'-6"	(8) #7 x 7'-6" TOP & BOTTOM
F9	9'-0"	9'-0"	1'-8"	(9) #7 x 8'-6"
F9T	9'-0"	9'-0"	1'-8"	(9) #7 x 8'-6" TOP & BOTTOM
F10	10'-0"	10'-0"	1'-10"	(10) #8 x 9'-6"
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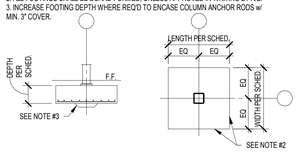

CONCRETE PIER SCHEDULE

PIER MARK	PIER SIZE		PIER REINFORCING VERTICALS	TIES-SIZE & SPACING	DETAIL
P28	2'-4"	2'-4"	(4) #9	#4 @ 12" O.C.	A
P32	2'-8"	2'-8"	(4) #10	#4 @ 12" O.C.	A
P28X48	2'-4"	4'-0"	(8) #9	#4 @ 12" O.C.	E

1. PROVIDE MIN. 1-1/2" CLEAR TO PIER TIES.

2. "CRITICAL HEIGHT" DENOTES HT. ABOVE WHICH LARGER DIA. VERTICALS WITH FEWER TIES MAY BE USED. REFER TO FOUNDATION PLAN(S) FOR T/P & T/F ELEV'S.

3. TYPICAL TIE SPACING, UNLESS NOTED OTHERWISE: HOLD FIRST TIE 2" FROM TOP OF PIER. HOLD NEXT THREE TIES 3" ON CENTER. SPACE BALANCE OF TIES AT SCHEDULED SPACING, WITH BOTTOM TIE HELD 2" ABOVE TOP OF FOOTING.

4. DOWELS TO FUNCTION AS PIER VERT'S FOR PIERS LESS THAN OR EQ. TO 5'-0" H. PROVIDE SEPARATE DOWELS & VERTICALS FOR PIERS GREATER THAN OR EQUAL TO 5'-0" H. UNLESS APPROVED.

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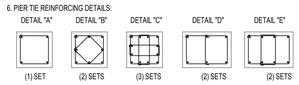
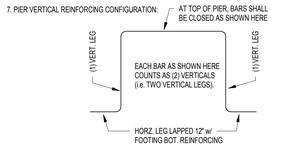
6. PIER TIE REINFORCING DETAILS:



7. PIER VERTICAL REINFORCING CONFIGURATION:



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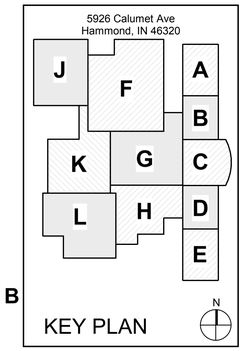

KEY PLAN

School City of Hammond

School City of Hammond

Hammond Middle High School

UNIT D FOUNDATION PLAN

SF1D1.1

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2017-105.MHS - Hammond Middle High School
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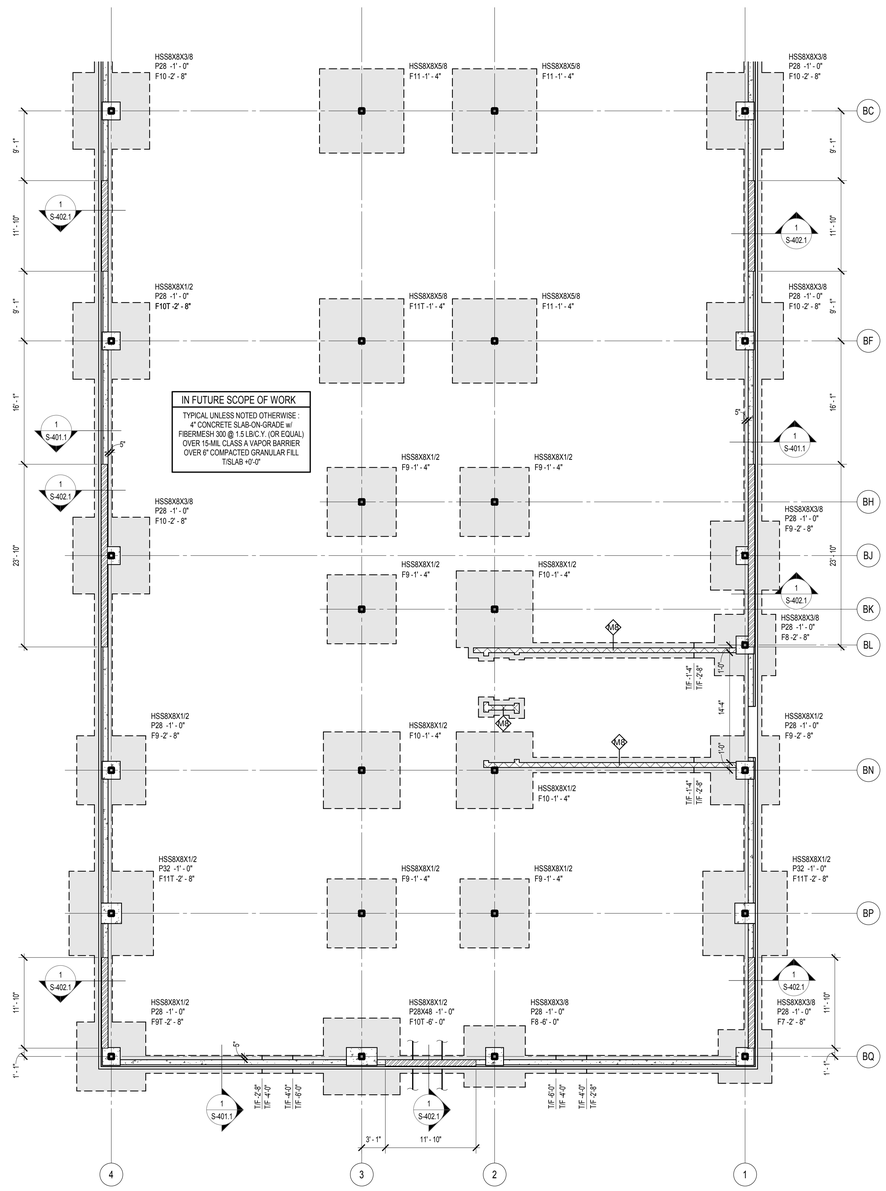

1 FOUNDATION PLAN - UNIT E
1/8" = 1'-0"

FOUNDATION PLAN NOTES

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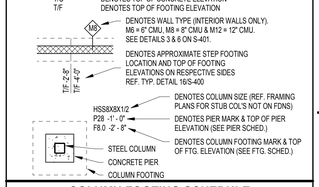

COLUMN FOOTING SCHEDULE

FOOTING MARK	FOOTING SIZE WIDTH	x LENGTH	x DEPTH	REINFORCING (EACH WAY U.N.O.)
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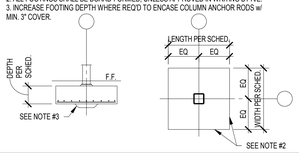

CONCRETE PIER SCHEDULE

PIER MARK	PIER SIZE		PIER REINFORCING VERTICALS	TIES-SIZE & SPACING	DETAIL
P28	2'-4"	2'-4"	(4) #9	#4 @ 12" O.C.	A
P32	2'-8"	2'-8"	(4) #10	#4 @ 12" O.C.	A
P28X48	2'-4"	4'-0"	(8) #9	#4 @ 12" O.C.	E

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2. 'CRITICAL HEIGHT' DENOTES HT. ABOVE WHICH LARGER DIA. VERTICALS WITH FEWER TIES MAY BE USED. REFER TO FOUNDATION PLAN(S) FOR T/P & T/F ELEV'S.

3. TYPICAL TIE SPACING, UNLESS NOTED OTHERWISE: HOLD FIRST TIE 2" FROM TOP OF PIER. HOLD NEXT THREE TIES 3" ON CENTER, SPACE BALANCE OF TIES AT SCHEDULED SPACING, WITH BOTTOM TIE HELD 2" ABOVE TOP OF FOOTING.

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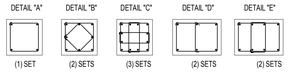
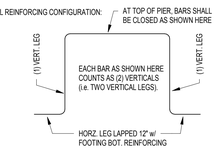


7. PIER VERTICAL REINFORCING CONFIGURATION:



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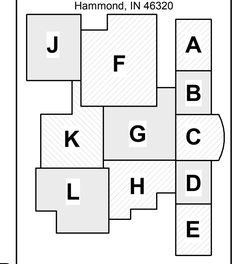

KEY PLAN

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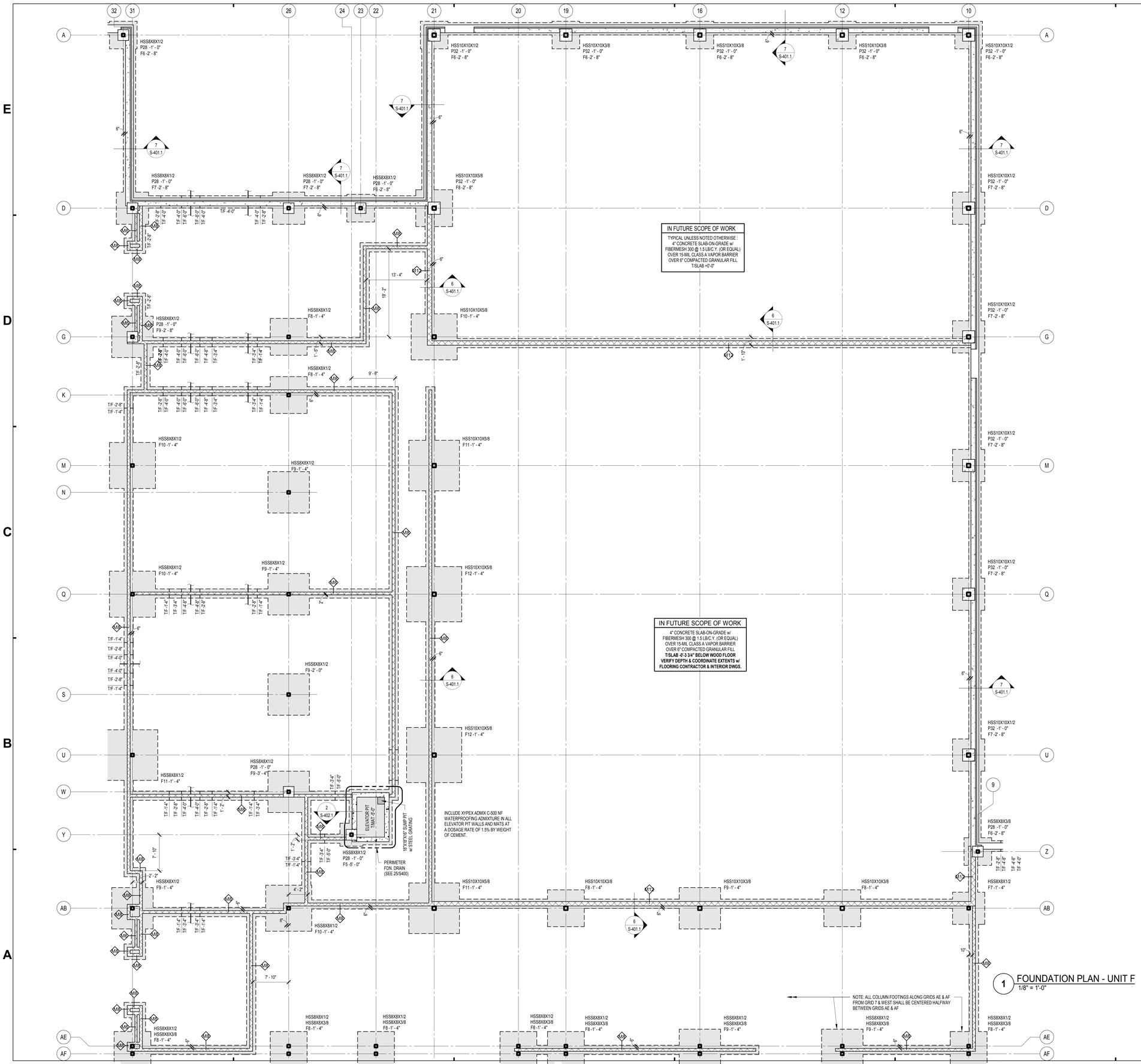
School City of Hammond

Hammond Middle High School

UNIT E FOUNDATION PLAN

SF1E1.1



1 FOUNDATION PLAN - UNIT F
1/8" = 1'-0"

FOUNDATION PLAN NOTES

1. REF. S-600 FOR STRUCTURAL NOTES, DESIGN DATA & SCHEDULES.

2. SEE SHEETS S-100, S-100A, S-100B, S-100C, ETC FOR GRID DIMENSIONS & GEOMETRY.

3. ALL CONTRACTORS ARE REQUIRED TO COORDINATE THEIR WORK WITH ALL DISCIPLINES TO AVOID CONFLICTS. THE MECHANICAL, ELECTRICAL, AND PLUMBING ASPECTS ARE NOT IN THE SCOPE OF THESE DRAWINGS. THEREFORE, ALL REQUIRED MATERIALS AND WORK MAY NOT BE INDICATED.

4. COORDINATE EXACT SIZE & LOCATION OF ALL MECHANICAL OPENINGS IN FOUNDATION WALLS WITH THE MECHANICAL, ELECTRICAL & PLUMBING CONTRACTORS.

5. ALL ELEVATIONS ARE REFERENCED FROM THE FIRST FLOOR FINISHED FLOOR ELEVATION +0'-0" (SEE CIVIL DRAWINGS FOR U.S.G.S.).

6. REF. ARCH. DRAWINGS FOR ALL DIMENSIONS NOT SHOWN. CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION AND IMMEDIATELY NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES.

7. REF. S-400 FOR TYPICAL FOUNDATION DETAILS.

8. NOTE: PERIMETER WALL AND COLUMN FOOTINGS SHALL BE LOWERED AND/OR SLEEVED TO PASS BELOW PLUMBING LINES (I.E. SANITARY & STORM SEWERS, WATER LINES, ETC.) SHOWN ON THE PLUMBING DRAWINGS. PROVIDE FOOTING STEPS AS REQUIRED PER TYPICAL DETAIL 22/S-400.

9. ALL SLAB RECESSES SHALL BE LOCATED PER THE ARCHITECTURAL DRAWINGS. COORDINATE DEPTHS OF ALL SLAB RECESSES WITH THE ARCHITECTURAL DRAWINGS AND/OR THE FLOORING SUPPLIER. SEE TYPICAL DETAIL 9/S-400.

10. COORDINATE REINFORCING DOWELS FOR CMU VERTICAL REINFORCING WITH REINF. NOTED ON PLANS & SECTIONS.

11. GROUT ALL CORES OF CMU BELOW FINISH FLOOR SOLID.

12. COLUMN FOOTINGS AND WALL FOOTINGS SHALL BEAR ON APPROVED SOIL. UNDERCUT AS REQ'D TO SUITABLE BEARING MATERIAL AS DETERMINED BY THE GEOTECHNICAL TESTING AGENCY. REF. TYPICAL FOOTING UNDERCUT DETAILS 20 & 21 ON S-400.

13. COLUMN FOOTINGS SUPPORTING MORE THAN ONE COLUMN SHALL BE CENTERED AT THE MIDPOINT BETWEEN THE COLUMNS, UNLESS NOTED OTHERWISE ON PLAN.

14. PROVIDE THICKENED SLAB UNDER ALL INTERIOR CMU WALLS WITHOUT FOOTINGS. SEE TYPICAL DETAIL 5/S-400. PROVIDE 8" THICKENED SLABS BELOW BASE OF ALL STAIRS AND BELOW INTERIOR BRICK PILASTERS EXTENDING APPROXIMATELY 20" BEYOND PILASTER. COORDINATE DIMENSIONS WITH FINAL ARCHITECTURAL CONSTRUCTION DOCUMENTS.

15. PROVIDE CONTROL/CONTRACTION JOINTS IN SLABS-ON-GRADE ALONG COLUMN CENTERLINES AND INTERMITTENTLY AT A MAXIMUM SPACING OF 36 X SLAB THICKNESS (I.E. 12' O.C. MAX FOR 4" THICK SLAB). ALL JOINTS IN SLABS TO RECEIVE THIN OR THICK-SET TERRAZZO, CERAMIC OR PORCELAIN TILE, VINYL COMPOSITION TILE (VCT) OR VINYL SHEET GOODS, EPOXY OR SIMILAR THIN-FILM FINISH FLOORING SHALL BE CAREFULLY COORDINATED WITH THE FLOORING CONTRACTOR. SEE DETAIL 7/S-400.

16. PLAN LEGEND:

T.S.	DENOTES THICKENED SLAB BELOW BASE OF STAIRS & INTERIOR BRICK PILASTERS/WALLS (SEE NOTE 14 ABOVE).
F.F. / FFE	DENOTES FINISHED FLOOR ELEVATION
T/C	DENOTES TOP OF CONCRETE ELEVATION
T/F	DENOTES TOP OF FOOTING ELEVATION

M8 — DENOTES WALL TYPE (INTERIOR WALLS ONLY). M6 = 6" CMU, M8 = 8" CMU & M12 = 12" CMU. SEE DETAILS 3 & 6 ON S-401.

T/F -2'-8" / T/F -4'-0" — DENOTES APPROXIMATE STEP FOOTING LOCATION AND TOP OF FOOTING ELEVATIONS ON RESPECTIVE SIDES REF. TYP. DETAIL 16/S-400

HSS8X8X1/2 — DENOTES COLUMN SIZE (REF. FRAMING PLANS FOR STUB COL'S NOT ON FDNS)

P28 -1'- 0" / F8.0 -2'- 8" — DENOTES PIER MARK & TOP OF PIER ELEVATION (SEE PIER SCHED.)

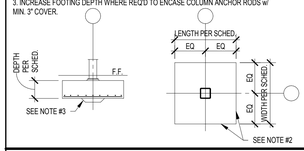
STEEL COLUMN / CONCRETE PIER / COLUMN FOOTING — DENOTES COLUMN FOOTING MARK & TOP OF FTG. ELEVATION (SEE FTG. SCHED.)

COLUMN FOOTING SCHEDULE

FOOTING MARK	FOOTING SIZE WIDTH	x LENGTH	x DEPTH	REINFORCING (EACH WAY U.N.O.)
F5	5'-0"	5'-0"	1'-2"	(5) #5 x 4'-6"
F6	6'-0"	6'-0"	1'-2"	(6) #6 x 5'-6"
F7	7'-0"	7'-0"	1'-4"	(7) #6 x 6'-6"
F8	8'-0"	8'-0"	1'-6"	(8) #7 x 7'-6"
F8T	8'-0"	8'-0"	1'-6"	(8) #7 x 7'-6" TOP & BOTTOM
F9	9'-0"	9'-0"	1'-8"	(9) #7 x 8'-6"
F9T	9'-0"	9'-0"	1'-8"	(9) #7 x 8'-6" TOP & BOTTOM
F10	10'-0"	10'-0"	1'-10"	(10) #8 x 9'-6"
F10T	10'-0"	10'-0"	1'-10"	(10) #8 x 9'-6" TOP & BOTTOM
F11	11'-0"	11'-0"	2'-0"	(11) #8 x 10'-6"
F11T	11'-0"	11'-0"	2'-0"	(11) #8 x 10'-6" TOP & BOTTOM
F12	12'-0"	12'-0"	2'-2"	(12) #8 x 11'-6"

NOTES:

1. CENTER FOOTINGS BENEATH COLUMNS, U.N.O.
2. ALL FOOTINGS SHALL BE BOARD-FORMED, UNLESS APPROVED IN WRITING BY A/E.
3. INCREASE FOOTING DEPTH WHERE REQ'D TO ENCASE COLUMN ANCHOR RODS w/ MIN. 3" COVER.



CONCRETE PIER SCHEDULE

PIER MARK	PIER SIZE		PIER REINFORCING VERTICALS	TIES-SIZE & SPACING	DETAIL
P28	2'-4"	2'-4"	(4) #9	#4 @ 12" O.C.	A
P32	2'-8"	2'-8"	(4) #10	#4 @ 12" O.C.	A
P28X48	2'-4"	4'-0"	(8) #9	#4 @ 12" O.C.	E

1. PROVIDE MIN. 1-1/2" CLEAR TO PIER TIES.

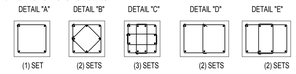
2. 'CRITICAL HEIGHT' DENOTES HT. ABOVE WHICH LARGER DIA. VERTICALS WITH FEWER TIES MAY BE USED. REFER TO FOUNDATION PLAN(S) FOR T/P & T/F ELEV'S.

3. TYPICAL TIE SPACING, UNLESS NOTED OTHERWISE: HOLD FIRST TIE 2" FROM TOP OF PIER. HOLD NEXT THREE TIES 3" ON CENTER, SPACE BALANCE OF TIES AT SCHEDULED SPACING, WITH BOTTOM TIE HELD 2" ABOVE TOP OF FOOTING.

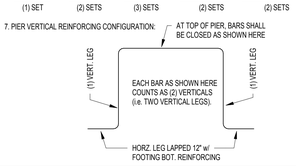
4. DOWELS TO FUNCTION AS PIER VERT'S FOR PIERS LESS THAN OR EQ. TO 5'-0" H. PROVIDE SEPARATE DOWELS & VERTICALS FOR PIERS GREATER THAN OR EQUAL TO 5'-0" H. UNLESS APPROVED.

5. CONTACT ENGINEER FOR DIRECTION IF COLUMN ANCHOR RODS FOUL WITH PIER TIES OR VERTICALS. FOR TIE DETALS "C" & "E", REBAR DETAILER SHALL SIZE TIES TO AVOID CONFLICTS WITH COLUMN ANCHOR RODS.

6. PIER TIE REINFORCING DETALS:



7. PIER VERTICAL REINFORCING CONFIGURATION:



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Indianapolis, IN 46204
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Project No. 2017-105.MHS
Project Date 09.06.2018
Produced RMD

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REGISTERED
PE60860410
STATE OF
Indiana
PROFESSIONAL ENGINEER

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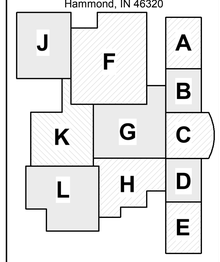
#	Revision	Date

5926 Calumet Ave
Hammond, IN 46320



KEY PLAN

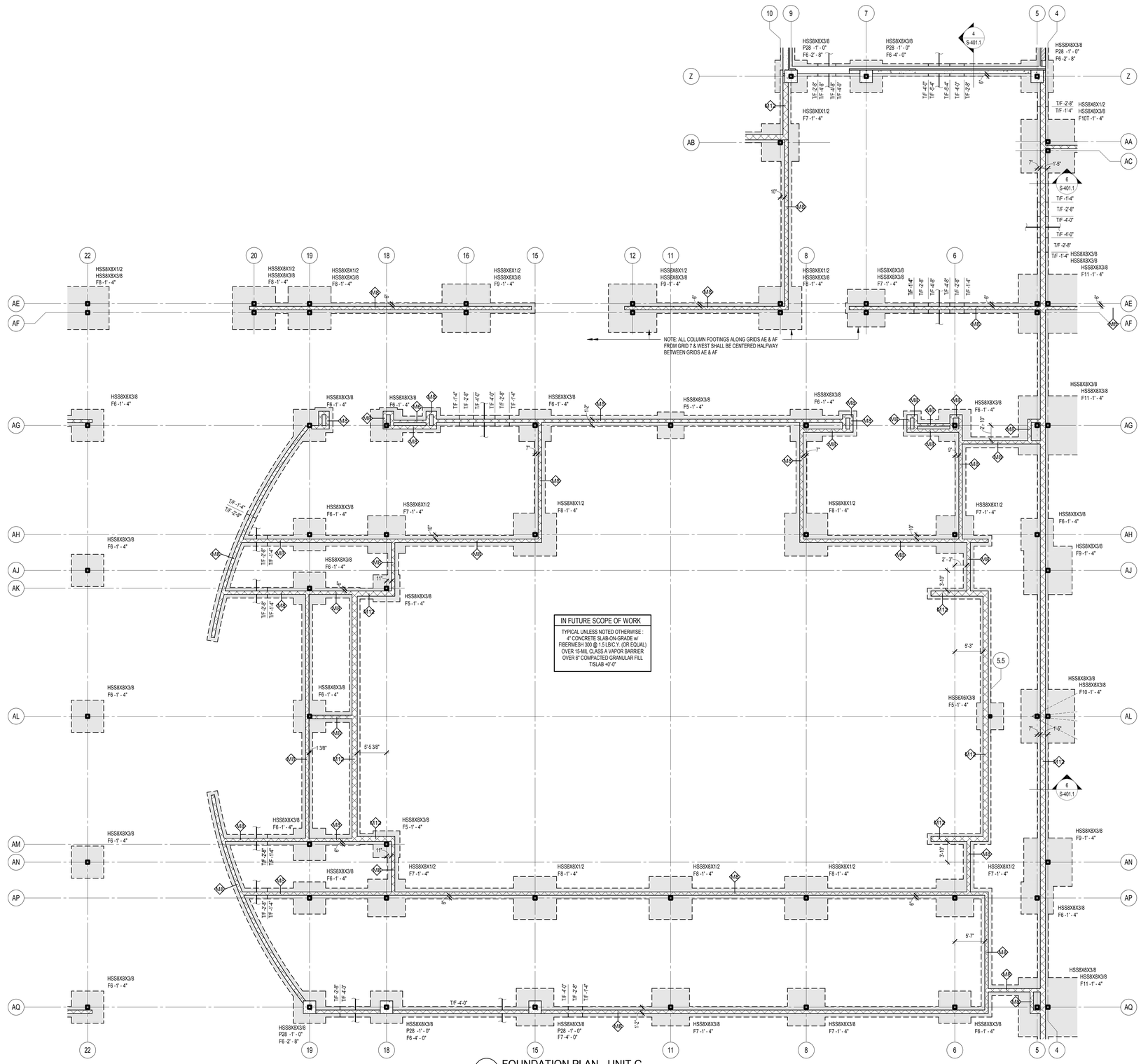
School City of Hammond

School City of Hammond

Hammond Middle High School

UNIT F FOUNDATION PLAN

SF1F1.1



1 FOUNDATION PLAN - UNIT G
1/8" = 1'-0"

FOUNDATION PLAN NOTES

1. REF. S-600 FOR STRUCTURAL NOTES, DESIGN DATA & SCHEDULES.

2. SEE SHEETS S-100, S-100A, S-100B, S-100C, ETC FOR GRID DIMENSIONS & GEOMETRY.

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8. NOTE: PERIMETER WALL AND COLUMN FOOTINGS SHALL BE LOWERED AND/OR SLEEVED TO PASS BELOW PLUMBING LINES (I.E. SANITARY & STORM SEWERS, WATER LINES, ETC.) SHOWN ON THE PLUMBING DRAWINGS. PROVIDE FOOTING STEPS AS REQUIRED PER TYPICAL DETAIL 22/S-400.

9. ALL SLAB RECESSES SHALL BE LOCATED PER THE ARCHITECTURAL DRAWINGS. COORDINATE DEPTHS OF ALL SLAB RECESSES WITH THE ARCHITECTURAL DRAWINGS AND/OR THE FLOORING SUPPLIER. SEE TYPICAL DETAIL 9/S-400.

10. COORDINATE REINFORCING DOWELS FOR CMU VERTICAL REINFORCING WITH REINF. NOTED ON PLANS & SECTIONS.

11. GROUT ALL CORES OF CMU BELOW FINISH FLOOR SOLID.

12. COLUMN FOOTINGS AND WALL FOOTINGS SHALL BEAR ON APPROVED SOIL. UNDERCUT AS REQ'D TO SUITABLE BEARING MATERIAL AS DETERMINED BY THE GEOTECHNICAL TESTING AGENCY. REF. TYPICAL FOOTING UNDERCUT DETAILS 20 & 21 ON S-400.

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15. PROVIDE CONTROL/CONTRACTION JOINTS IN SLABS-ON-GRADE ALONG COLUMN CENTERLINES AND INTERMITTENTLY AT A MAXIMUM SPACING OF 36 X SLAB THICKNESS (I.E. 12' O.C. MAX FOR 4" THICK SLAB). ALL JOINTS IN SLABS TO RECEIVE THIN OR THICK-SET TERRAZZO, CERAMIC OR PORCELAIN TILE, VINYL-COMPOSITION TILE (VCT) OR VINYL SHEET GOODS, EPOXY OR SIMILAR THIN-FILM FINISH FLOORING SHALL BE CAREFULLY COORDINATED WITH THE FLOORING CONTRACTOR. SEE DETAIL 7/S-400.

16. PLAN LEGEND:

T.S.	DENOTES THICKENED SLAB BELOW BASE OF STAIRS & INTERIOR BRICK PILASTERS/WALLS (SEE NOTE 14 ABOVE).
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M8	DENOTES WALL TYPE (INTERIOR WALLS ONLY). M8 = 6" CMU, M8 = 8" CMU & M12 = 12" CMU. SEE DETAILS 3 & 6 ON S-401.
T/F -2'-6" / T/F -4'-0"	DENOTES APPROXIMATE STEP FOOTING LOCATION AND TOP OF FOOTING ELEVATIONS ON RESPECTIVE SIDES REF. TYP. DETAIL 16/S-400
HSS8X8X1/2	DENOTES COLUMN SIZE (REF. FRAMING PLANS FOR STUB COL'S NOT ON FDNS)
P28 -1'- 0" / F8.0 -2'- 8"	DENOTES PIER MARK & TOP OF PIER ELEVATION (SEE PIER SCHED.)
STEEL COLUMN	DENOTES COLUMN FOOTING MARK & TOP OF FTG. ELEVATION (SEE FTG. SCHED.)
CONCRETE PIER	
COLUMN FOOTING	

COLUMN FOOTING SCHEDULE

FOOTING MARK	FOOTING SIZE WIDTH	x LENGTH	x DEPTH	REINFORCING (EACH WAY U.N.O.)
F5	5'-0"	5'-0"	1'-2"	(5) #5 x 4'-6"
F6	6'-0"	6'-0"	1'-2"	(6) #6 x 5'-6"
F7	7'-0"	7'-0"	1'-4"	(7) #6 x 6'-6"
F8	8'-0"	8'-0"	1'-6"	(8) #7 x 7'-6"
F8T	8'-0"	8'-0"	1'-6"	(8) #7 x 7'-6" TOP & BOTTOM
F9	9'-0"	9'-0"	1'-8"	(9) #7 x 8'-6"
F9T	9'-0"	9'-0"	1'-8"	(9) #7 x 8'-6" TOP & BOTTOM
F10	10'-0"	10'-0"	1'-10"	(10) #8 x 9'-6"
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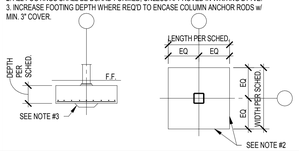
NOTES:

1. CENTER FOOTINGS BENEATH COLUMNS, U.N.O.
2. ALL FOOTINGS SHALL BE BOARD-FORMED, UNLESS APPROVED IN WRITING BY A/E.
3. INCREASE FOOTING DEPTH WHERE REQ'D TO ENCASE COLUMN ANCHOR RODS w/ MIN. 3" COVER.



CONCRETE PIER SCHEDULE

PIER MARK	PIER SIZE		PIER REINFORCING VERTICALS	TIES-SIZE & SPACING	DETAIL
P28	2'-4"	2'-4"	(4) #9	#4 @ 12" O.C.	A
P32	2'-8"	2'-8"	(4) #10	#4 @ 12" O.C.	A
P28X48	2'-4"	4'-0"	(8) #9	#4 @ 12" O.C.	E

1. PROVIDE MIN. 1-1/2" CLEAR TO PIER TIES.

2. "CRITICAL HEIGHT" DENOTES HT. ABOVE WHICH LARGER DIA. VERTICALS WITH FEWER TIES MAY BE USED. REFER TO FOUNDATION PLAN(S) FOR T/P & T/F ELEV'S.

3. TYPICAL TIE SPACING, UNLESS NOTED OTHERWISE: HOLD FIRST TIE 2" FROM TOP OF PIER. HOLD NEXT THREE TIES 3" ON CENTER, SPACE BALANCE OF TIES AT SCHEDULED SPACING, WITH BOTTOM TIE HELD 2" ABOVE TOP OF FOOTING.

4. DOWELS TO FUNCTION AS PIER VERT'S FOR PIERS LESS THAN OR EQ. TO 5'-0" H. PROVIDE SEPARATE DOWELS & VERTICALS FOR PIERS GREATER THAN OR EQUAL TO 5'-0" H, UNLESS APPROVED.

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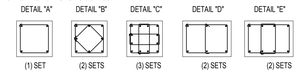
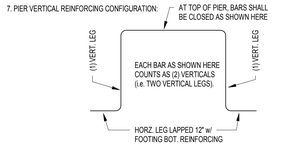


7. PIER VERTICAL REINFORCING CONFIGURATION:



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Project No. 2017-105.MHS
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WESLEY B. HARRISON
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#	Revision	Date

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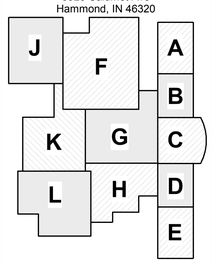
Hammond, IN 46320



KEY PLAN

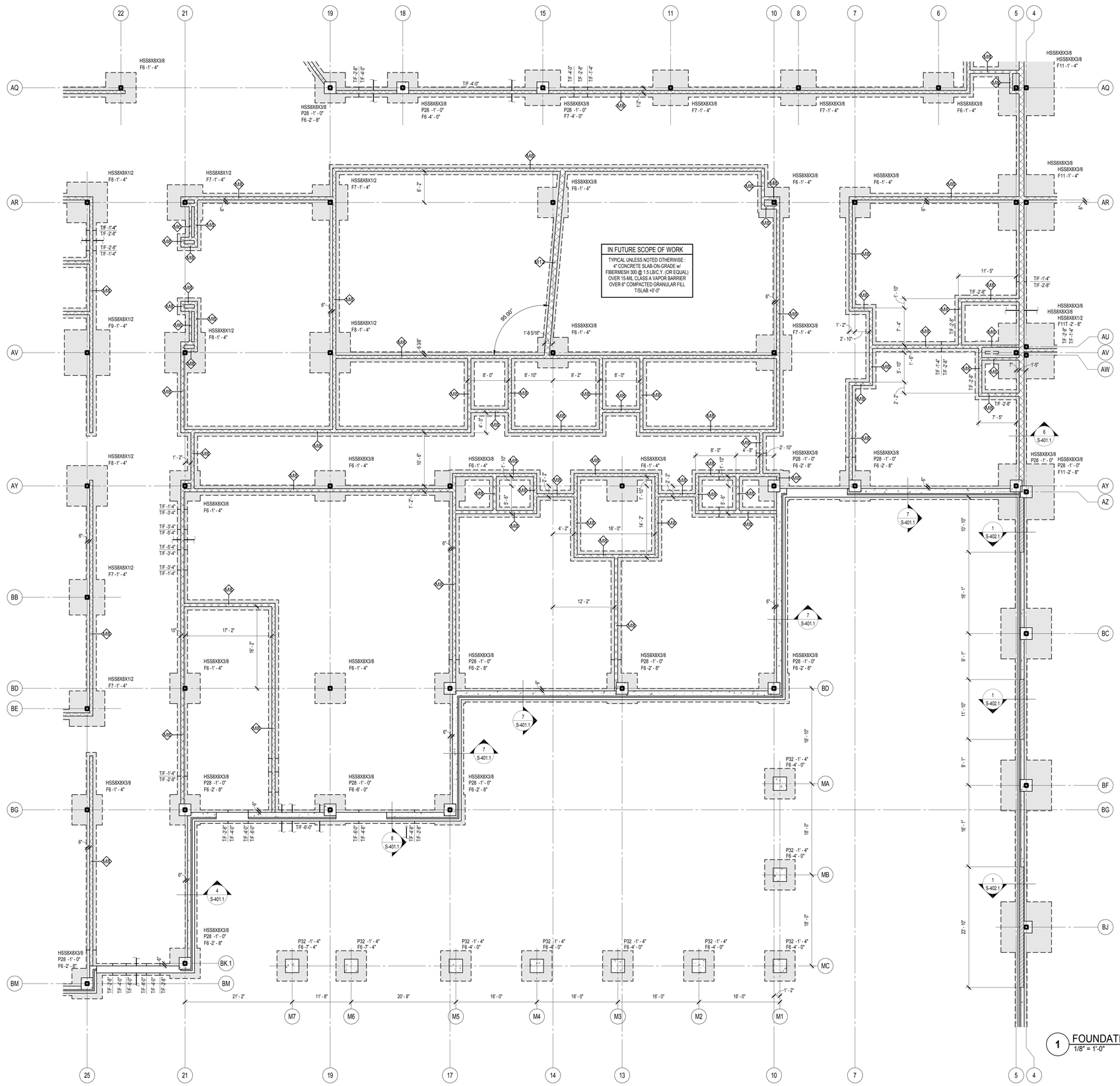
School City of Hammond

School City of Hammond

Hammond Middle High School

UNIT G FOUNDATION PLAN

SF1G1.1



1 FOUNDATION PLAN - UNIT H
1/8" = 1'-0"

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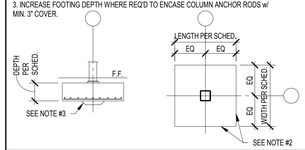
F8.0 -2'-8"	DENOTES COLUMN FOOTING MARK & TOP OF FTG. ELEVATION (SEE FTG. SCHED.)
STEEL COLUMN	
CONCRETE PIER	
COLUMN FOOTING	

COLUMN FOOTING SCHEDULE

FOOTING MARK	FOOTING SIZE WIDTH	x LENGTH	x DEPTH	REINFORCING (EACH WAY U.N.O.)
F5	5'-0"	5'-0"	1'-2"	(5) #5 x 4'-6"
F6	6'-0"	6'-0"	1'-2"	(6) #6 x 5'-6"
F7	7'-0"	7'-0"	1'-4"	(7) #6 x 6'-6"
F8	8'-0"	8'-0"	1'-6"	(8) #7 x 7'-6"
F8T	8'-0"	8'-0"	1'-6"	(8) #7 x 7'-6" TOP & BOTTOM
F9	9'-0"	9'-0"	1'-8"	(9) #7 x 8'-6"
F9T	9'-0"	9'-0"	1'-8"	(9) #7 x 8'-6" TOP & BOTTOM
F10	10'-0"	10'-0"	1'-10"	(10) #8 x 9'-6"
F10T	10'-0"	10'-0"	1'-10"	(10) #8 x 9'-6" TOP & BOTTOM
F11	11'-0"	11'-0"	2'-0"	(11) #8 x 10'-6"
F11T	11'-0"	11'-0"	2'-0"	(11) #8 x 10'-6" TOP & BOTTOM
F12	12'-0"	12'-0"	2'-2"	(12) #8 x 11'-6"

NOTES:

1. CENTER FOOTINGS BENEATH COLUMNS, U.N.O.
2. ALL FOOTINGS SHALL BE BOARD-FORMED, UNLESS APPROVED IN WRITING BY A/E.
3. INCREASE FOOTING DEPTH WHERE REQ'D TO ENCASE COLUMN ANCHOR RODS w/ MIN. 3" COVER.



CONCRETE PIER SCHEDULE

PIER MARK	PIER SIZE		PIER REINFORCING VERTICALS	TIES-SIZE & SPACING	DETAIL
P28	2'-4"	2'-4"	(4) #9	#4 @ 12" O.C.	A
P32	2'-8"	2'-8"	(4) #10	#4 @ 12" O.C.	A
P28X48	2'-4"	4'-0"	(8) #9	#4 @ 12" O.C.	E

1. PROVIDE MIN. 1-1/2" CLEAR TO PIER TIES.

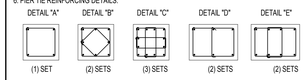
2. 'CRITICAL HEIGHT' DENOTES HT. ABOVE WHICH LARGER DIA. VERTICALS WITH FEWER TIES MAY BE USED. REFER TO FOUNDATION PLAN(S) FOR T/P & T/F ELEVS.

3. TYPICAL TIE SPACING, UNLESS NOTED OTHERWISE: HOLD FIRST TIE 2" FROM TOP OF PIER. HOLD NEXT THREE TIES 3" ON CENTER, SPACE BALANCE OF TIES AT SCHEDULED SPACING, WITH BOTTOM TIE HELD 2" ABOVE TOP OF FOOTING.

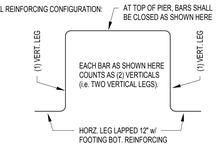
4. DOWELS TO FUNCTION AS PIER VERT'S FOR PIERS LESS THAN OR EQ. TO 5'-0" H. PROVIDE SEPARATE DOWELS & VERTICALS FOR PIERS GREATER THAN OR EQUAL TO 5'-0" H, UNLESS APPROVED.

5. CONTACT ENGINEER FOR DIRECTION IF COLUMN ANCHOR RODS FOUL WITH PIER TIES OR VERTICALS. FOR TIE DETALS "C" & "E", REBAR DETALER SHALL SIZE TIES TO AVOID CONFLICTS WITH COLUMN ANCHOR RODS.

6. PIER TIE REINFORCING DETALS:



7. PIER VERTICAL REINFORCING CONFIGURATION:



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Project No. 2017-105.MHS
Project Date 09.06.2018
Produced RMD

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PROFESSIONAL ENGINEER

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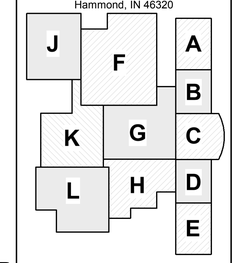
#	Revision	Date

5926 Calumet Ave
Hammond, IN 46320



KEY PLAN

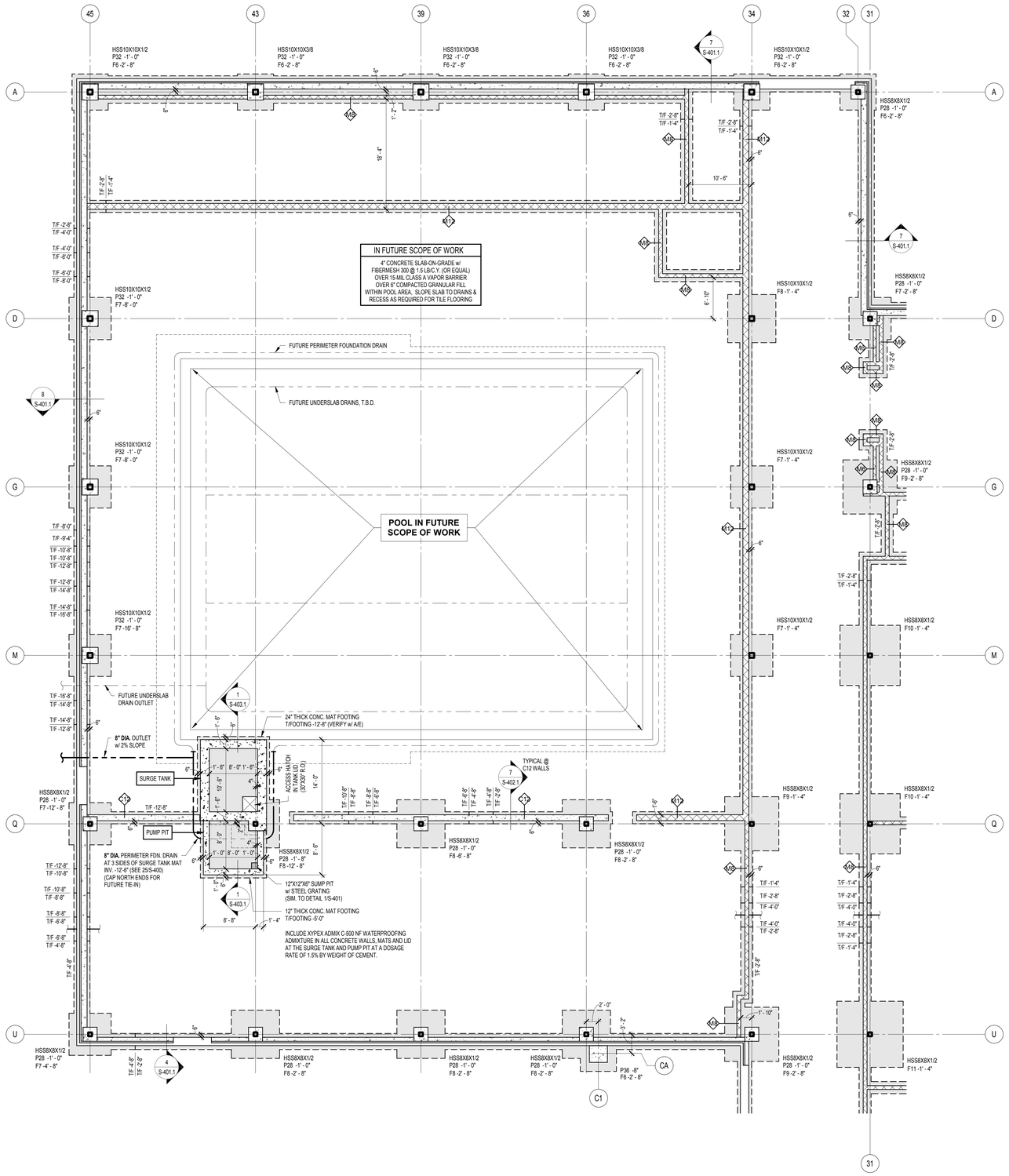
School City of Hammond

School City of Hammond

Hammond Middle High School

UNIT H FOUNDATION PLAN

SF1H1.1



1 FOUNDATION PLAN - UNIT J
1/8" = 1'-0"

FOUNDATION PLAN NOTES

1. REF. S-600 FOR STRUCTURAL NOTES, DESIGN DATA & SCHEDULES.

2. SEE SHEETS S-100, S-100A, S-100B, S-100C, ETC FOR GRID DIMENSIONS & GEOMETRY.

3. ALL CONTRACTORS ARE REQUIRED TO COORDINATE THEIR WORK WITH ALL DISCIPLINES TO AVOID CONFLICTS. THE MECHANICAL, ELECTRICAL AND PLUMBING ASPECTS ARE NOT IN THE SCOPE OF THESE DRAWINGS. THEREFORE, ALL REQUIRED MATERIALS AND WORK MAY NOT BE INDICATED.

4. COORDINATE EXACT SIZE & LOCATION OF ALL MECHANICAL OPENINGS IN FOUNDATION WALLS WITH THE MECHANICAL, ELECTRICAL & PLUMBING CONTRACTORS.

5. ALL ELEVATIONS ARE REFERENCED FROM THE FIRST FLOOR FINISHED FLOOR ELEVATION +0'-0" (SEE CIVIL DRAWINGS FOR U.S.G.S.).

6. REF. ARCH. DRAWINGS FOR ALL DIMENSIONS NOT SHOWN. CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION AND IMMEDIATELY NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES.

7. REF. S-400 FOR TYPICAL FOUNDATION DETAILS.

8. NOTE: PERIMETER WALL AND COLUMN FOOTINGS SHALL BE LOWERED AND/OR SLEEVED TO PASS BELOW PLUMBING LINES (I.E. SANITARY & STORM SEWERS, WATER LINES, ETC.) SHOWN ON THE PLUMBING DRAWINGS. PROVIDE FOOTING STEPS AS REQUIRED PER TYPICAL DETAIL 22/S-400.

9. ALL SLAB RECESSES SHALL BE LOCATED PER THE ARCHITECTURAL DRAWINGS. COORDINATE DEPTHS OF ALL SLAB RECESSES WITH THE ARCHITECTURAL DRAWINGS AND/OR THE FLOORING SUPPLIER. SEE TYPICAL DETAIL 9/S-400.

10. COORDINATE REINFORCING DOWELS FOR CMU VERTICAL REINFORCING WITH REINF. NOTED ON PLANS & SECTIONS.

11. GROUT ALL CORES OF CMU BELOW FINISH FLOOR SOLID.

12. COLUMN FOOTINGS AND WALL FOOTINGS SHALL BEAR ON APPROVED SOIL. UNDERCUT AS REQ'D TO SUITABLE BEARING MATERIAL AS DETERMINED BY THE GEOTECHNICAL TESTING AGENCY. REF. TYPICAL FOOTING UNDERCUT DETAILS 20 & 21 ON S-400.

13. COLUMN FOOTINGS SUPPORTING MORE THAN ONE COLUMN SHALL BE CENTERED AT THE MIDPOINT BETWEEN THE COLUMNS, UNLESS NOTED OTHERWISE ON PLAN.

14. PROVIDE THICKENED SLAB UNDER ALL INTERIOR CMU WALLS WITHOUT FOOTINGS. SEE TYPICAL DETAIL 5/S-400. PROVIDE 8" THICKENED SLABS BELOW BASE OF ALL STAIRS AND BELOW INTERIOR BRICK PILASTERS EXTENDING APPROXIMATELY 20" BEYOND PILASTER. COORDINATE DIMENSIONS WITH FINAL ARCHITECTURAL CONSTRUCTION DOCUMENTS.

15. PROVIDE CONTROL/CONTRACTION JOINTS IN SLABS-ON-GRADE ALONG COLUMN CENTERLINES AND INTERMITTENTLY AT A MAXIMUM SPACING OF 36 X SLAB THICKNESS (I.E. 12' O.C. MAX FOR 4" THICK SLAB). ALL JOINTS IN SLABS TO RECEIVE THIN OR THICK-SET TERRAZZO, CERAMIC OR PORCELAIN TILE, VINYL-COMPOSITION TILE (VCT) OR VINYL SHEET GOODS, EPOXY OR SIMILAR THIN-FILM FINISH FLOORING SHALL BE CAREFULLY COORDINATED WITH THE FLOORING CONTRACTOR. SEE DETAIL 7/S-400.

16. PLAN LEGEND:

T.S.	DENOTES THICKENED SLAB BELOW BASE OF STAIRS & INTERIOR BRICK PILASTERS/WALLS (SEE NOTE 14 ABOVE).
F.F. / FFE	DENOTES FINISHED FLOOR ELEVATION
T/C	DENOTES TOP OF CONCRETE ELEVATION
T/F	DENOTES TOP OF FOOTING ELEVATION

M8 — DENOTES WALL TYPE (INTERIOR WALLS ONLY). M8 = 6" CMU, M8 = 8" CMU & M12 = 12" CMU. SEE DETAILS 3,4 & 0N S-401.

T/F -8'-0" / T/F -9'-4" — DENOTES APPROXIMATE STEP FOOTING LOCATION AND TOP OF FOOTING ELEVATIONS ON RESPECTIVE SIDES REF. TYP. DETAIL 16/S-400

HSS8X8X1/2 — DENOTES COLUMN SIZE (REF. FRAMING PLANS FOR STUB COL'S NOT ON FDNS)

P28 -1' - 0" — DENOTES PIER MARK & TOP OF PIER ELEVATION (SEE PIER SCHED.)

F8.0 -2' - 8" — DENOTES COLUMN FOOTING MARK & TOP OF FTG. ELEVATION (SEE FTG. SCHED.)

STEEL COLUMN
CONCRETE PIER
COLUMN FOOTING

COLUMN FOOTING SCHEDULE

FOOTING MARK	FOOTING SIZE WIDTH	x LENGTH	x DEPTH	REINFORCING (EACH WAY U.N.O.)
F5	5'-0"	5'-0"	1'-2"	(5) #5 x 4'-6"
F6	6'-0"	6'-0"	1'-2"	(6) #6 x 5'-6"
F7	7'-0"	7'-0"	1'-4"	(7) #6 x 6'-6"
F8	8'-0"	8'-0"	1'-6"	(8) #7 x 7'-6"
F8T	8'-0"	8'-0"	1'-6"	(8) #7 x 7'-6" TOP & BOTTOM
F9	9'-0"	9'-0"	1'-8"	(9) #7 x 8'-6"
F9T	9'-0"	9'-0"	1'-8"	(9) #7 x 8'-6" TOP & BOTTOM
F10	10'-0"	10'-0"	1'-10"	(10) #8 x 9'-6"
F10T	10'-0"	10'-0"	1'-10"	(10) #8 x 9'-6" TOP & BOTTOM
F11	11'-0"	11'-0"	2'-0"	(11) #8 x 10'-6"
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F12	12'-0"	12'-0"	2'-2"	(12) #8 x 11'-6"

NOTES:

1. CENTER FOOTINGS BENEATH COLUMNS, U.N.O.
2. ALL FOOTINGS SHALL BE BOARD-FORMED, UNLESS APPROVED IN WRITING BY A/E.
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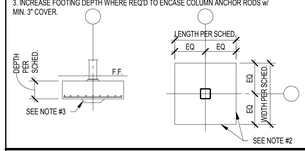

CONCRETE PIER SCHEDULE

PIER MARK	PIER SIZE		PIER REINFORCING VERTICALS	TIES-SIZE & SPACING	DETAIL
P28	2'-4"	2'-4"	(4) #9	#4 @ 12" O.C.	A
P32	2'-8"	2'-8"	(4) #10	#4 @ 12" O.C.	A
P28X48	2'-4"	4'-0"	(8) #9	#4 @ 12" O.C.	E

1. PROVIDE MIN. 1-1/2" CLEAR TO PIER TIES.

2. 'CRITICAL HEIGHT' DENOTES HT. ABOVE WHICH LARGER DIA. VERTICALS WITH FEWER TIES MAY BE USED. REFER TO FOUNDATION PLAN(S) FOR T/P & T/F ELEV'S.

3. TYPICAL TIE SPACING, UNLESS NOTED OTHERWISE: HOLD FIRST TIE 2" FROM TOP OF PIER. HOLD NEXT THREE TIES 3" ON CENTER, SPACE BALANCE OF TIES AT SCHEDULED SPACING, WITH BOTTOM TIE HELD 2" ABOVE TOP OF FOOTING.

4. DOWELS TO FUNCTION AS PIER VERT'S FOR PIERS LESS THAN OR EQ. TO 5'-0" H. PROVIDE SEPARATE DOWELS & VERTICALS FOR PIERS GREATER THAN OR EQUAL TO 5'-0" H, UNLESS APPROVED.

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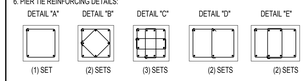
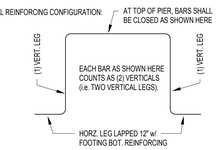
6. PIER TIE REINFORCING DETAILS:



7. PIER VERTICAL REINFORCING CONFIGURATION:



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Project No. 2017-105.MHS
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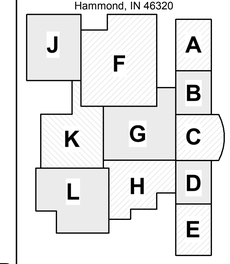
#	Revision	Date

5926 Calumet Ave
Hammond, IN 46320



KEY PLAN

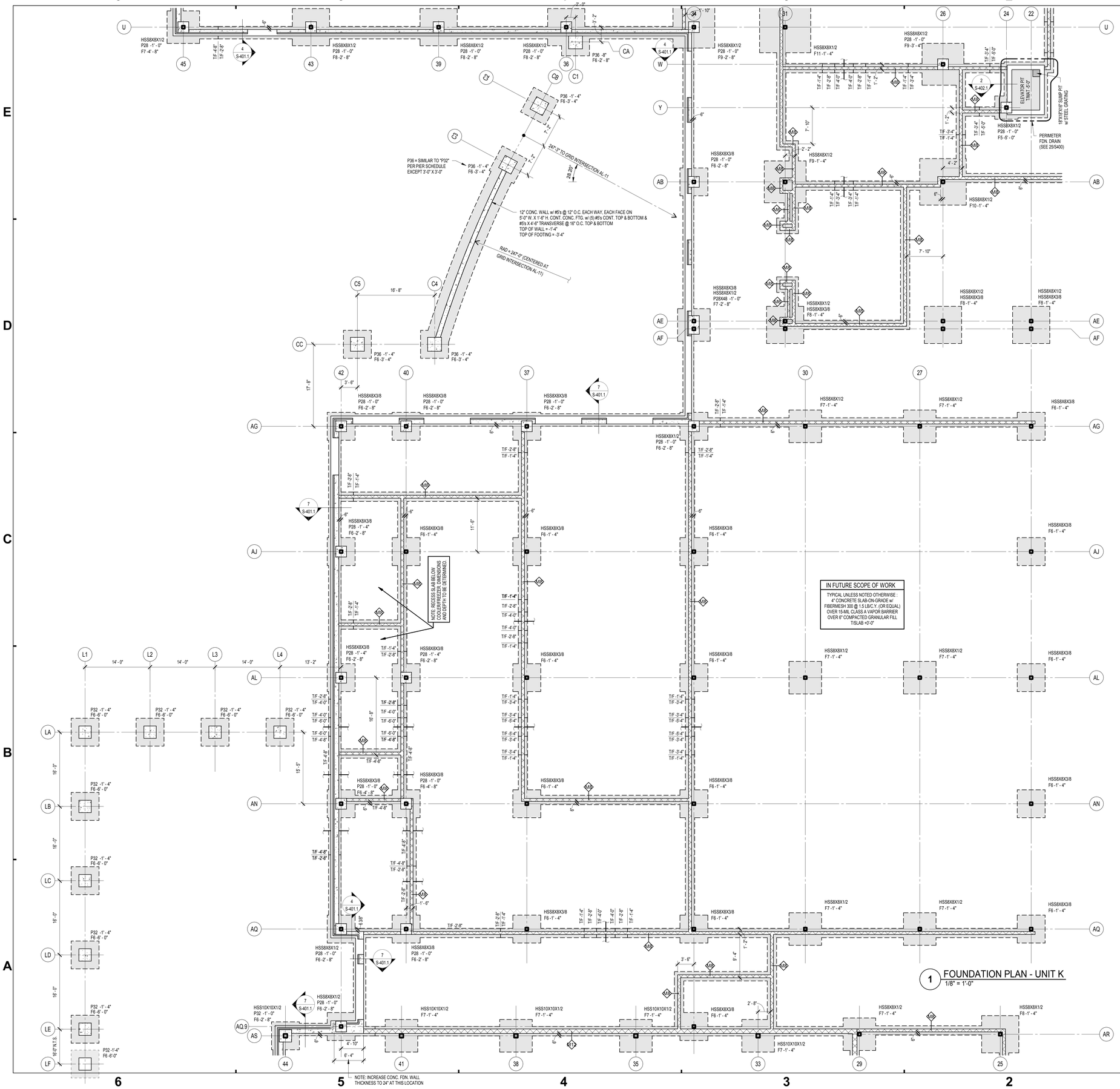
School City of Hammond

School City of Hammond

Hammond Middle High School

UNIT J FOUNDATION PLAN

SF1J1.1



1 FOUNDATION PLAN - UNIT K
1/8" = 1'-0"

FOUNDATION PLAN NOTES

1. REF. S-600 FOR STRUCTURAL NOTES, DESIGN DATA & SCHEDULES.

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16. PLAN LEGEND:

T.S.	DENOTES THICKENED SLAB BELOW BASE OF STAIRS & INTERIOR BRICK PILASTERS/WALLS (SEE NOTE 14 ABOVE).
F.F. / FFE	DENOTES FINISHED FLOOR ELEVATION
T/C	DENOTES TOP OF CONCRETE ELEVATION
T/F	DENOTES TOP OF FOOTING ELEVATION

M8 — DENOTES WALL TYPE (INTERIOR WALLS ONLY). M6 = 6" CMU, M8 = 8" CMU & M12 = 12" CMU. SEE DETAILS 3 & 6 ON S-401.

T/F -2'-8" / T/F -4'-0" — DENOTES APPROXIMATE STEP FOOTING LOCATION AND TOP OF FOOTING ELEVATIONS ON RESPECTIVE SIDES REF. TYP. DETAIL 16/S-400

HSS8X8X1/2 — DENOTES COLUMN SIZE (REF. FRAMING PLANS FOR STUB COL'S NOT ON FDNS)

P28 -1' - 0" — DENOTES PIER MARK & TOP OF PIER ELEVATION (SEE PIER SCHED.)

F8.0 -2' - 8" — DENOTES COLUMN FOOTING MARK & TOP OF FTG. ELEVATION (SEE FTG. SCHED.)

STEEL COLUMN
CONCRETE PIER
COLUMN FOOTING

COLUMN FOOTING SCHEDULE

FOOTING MARK	FOOTING SIZE WIDTH	x LENGTH	x DEPTH	REINFORCING (EACH WAY U.N.O.)
F5	5'-0"	5'-0"	1'-2"	(5) #5 x 4'-6"
F6	6'-0"	6'-0"	1'-2"	(6) #6 x 5'-6"
F7	7'-0"	7'-0"	1'-4"	(7) #6 x 6'-6"
F8	8'-0"	8'-0"	1'-6"	(8) #7 x 7'-6"
F8T	8'-0"	8'-0"	1'-6"	(8) #7 x 7'-6" TOP & BOTTOM
F9	9'-0"	9'-0"	1'-8"	(9) #7 x 8'-6"
F9T	9'-0"	9'-0"	1'-8"	(9) #7 x 8'-6" TOP & BOTTOM
F10	10'-0"	10'-0"	1'-10"	(10) #8 x 9'-6"
F10T	10'-0"	10'-0"	1'-10"	(10) #8 x 9'-6" TOP & BOTTOM
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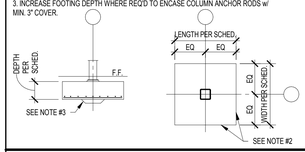
NOTES:

1. CENTER FOOTINGS BENEATH COLUMNS, U.N.O.
2. ALL FOOTINGS SHALL BE BOARD-FORMED, UNLESS APPROVED IN WRITING BY A/E.
3. INCREASE FOOTING DEPTH WHERE REQ'D TO ENCASE COLUMN ANCHOR RODS w/ MIN. 3" COVER.



CONCRETE PIER SCHEDULE

PIER MARK	PIER SIZE		PIER REINFORCING VERTICALS	TIES-SIZE & SPACING	DETAIL
P28	2'-4"	2'-4"	(4) #9	#4 @ 12" O.C.	A
P32	2'-8"	2'-8"	(4) #10	#4 @ 12" O.C.	A
P28X48	2'-4"	4'-0"	(8) #9	#4 @ 12" O.C.	E

1. PROVIDE MIN. 1-1/2" CLEAR TO PIER TIES.

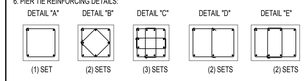
2. 'CRITICAL HEIGHT' DENOTES HT. ABOVE WHICH LARGER DIA. VERTICALS WITH FEWER TIES MAY BE USED. REFER TO FOUNDATION PLAN(S) FOR T/P & T/F ELEV'S.

3. TYPICAL TIE SPACING, UNLESS NOTED OTHERWISE: HOLD FIRST TIE 2" FROM TOP OF PIER. HOLD NEXT THREE TIES 3" ON CENTER, SPACE BALANCE OF TIES AT SCHEDULED SPACING, WITH BOTTOM TIE HELD 2" ABOVE TOP OF FOOTING.

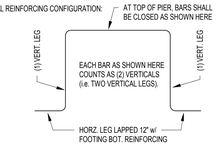
4. DOWELS TO FUNCTION AS PIER VERT'S FOR PIERS LESS THAN OR EQ. TO 5'-0" H. PROVIDE SEPARATE DOWELS & VERTICALS FOR PIERS GREATER THAN OR EQUAL TO 5'-0" H, UNLESS APPROVED.

5. CONTACT ENGINEER FOR DIRECTION IF COLUMN ANCHOR RODS FOUL WITH PIER TIES OR VERTICALS. FOR TIE DETALS "C" & "E", REBAR DETAILER SHALL SIZE TIES TO AVOID CONFLICTS WITH COLUMN ANCHOR RODS.

6. PIER TIE REINFORCING DETALS:



7. PIER VERTICAL REINFORCING CONFIGURATION:



SCHMIDT ASSOCIATES
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Project No. 2017-105.MHS
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#	Revision	Date

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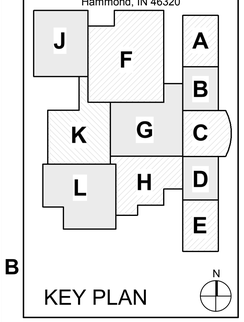


KEY PLAN

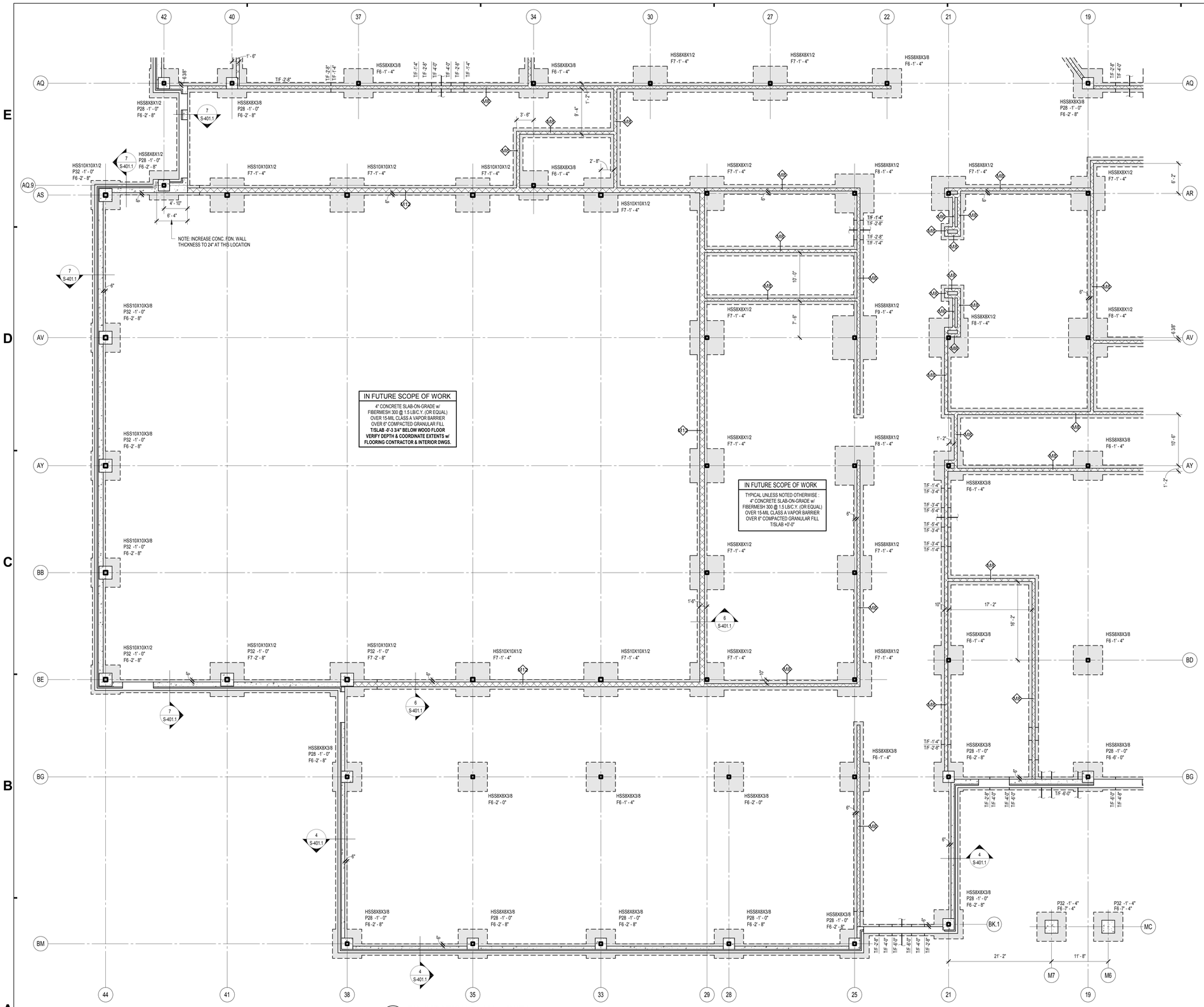
School City of Hammond

School City of Hammond

Hammond Middle High School

UNIT K FOUNDATION PLAN

SF1K1.1



1 FOUNDATION PLAN - UNIT L
1/8" = 1'-0"

FOUNDATION PLAN NOTES

1. REF. S-600 FOR STRUCTURAL NOTES, DESIGN DATA & SCHEDULES.

2. SEE SHEETS S-100, S-100A, S-100B, S-100C, ETC FOR GRID DIMENSIONS & GEOMETRY.

3. ALL CONTRACTORS ARE REQUIRED TO COORDINATE THEIR WORK WITH ALL DISCIPLINES TO AVOID CONFLICTS. THE MECHANICAL, ELECTRICAL, AND PLUMBING ASPECTS ARE NOT IN THE SCOPE OF THESE DRAWINGS. THEREFORE, ALL REQUIRED MATERIALS AND WORK MAY NOT BE INDICATED.

4. COORDINATE EXACT SIZE & LOCATION OF ALL MECHANICAL OPENINGS IN FOUNDATION WALLS WITH THE MECHANICAL, ELECTRICAL & PLUMBING CONTRACTORS.

5. ALL ELEVATIONS ARE REFERENCED FROM THE FIRST FLOOR FINISHED FLOOR ELEVATION =0'-0" (SEE CIVIL DRAWINGS FOR U.S.G.S.).

6. REF. ARCH. DRAWINGS FOR ALL DIMENSIONS NOT SHOWN. CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION AND IMMEDIATELY NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES.

7. REF. S-400 FOR TYPICAL FOUNDATION DETAILS.

8. NOTE: PERIMETER WALL AND COLUMN FOOTINGS SHALL BE LOWERED AND/OR SLEEVED TO PASS BELOW PLUMBING LINES (I.E. SANITARY & STORM SEWERS, WATER LINES, ETC.) SHOWN ON THE PLUMBING DRAWINGS. PROVIDE FOOTING STEPS AS REQUIRED PER TYPICAL DETAIL 22/S-400.

9. ALL SLAB RECESSES SHALL BE LOCATED PER THE ARCHITECTURAL DRAWINGS. COORDINATE DEPTHS OF ALL SLAB RECESSES WITH THE ARCHITECTURAL DRAWINGS AND/OR THE FLOORING SUPPLIER. SEE TYPICAL DETAIL 9/S-400.

10. COORDINATE REINFORCING DOWELS FOR CMU VERTICAL REINFORCING WITH REINF. NOTED ON PLANS & SECTIONS.

11. GROUT ALL CORES OF CMU BELOW FINISH FLOOR SOLID.

12. COLUMN FOOTINGS AND WALL FOOTINGS SHALL BEAR ON APPROVED SOIL. UNDERCUT AS REQD TO SUITABLE BEARING MATERIAL AS DETERMINED BY THE GEOTECHNICAL TESTING AGENCY. REF. TYPICAL FOOTING UNDERCUT DETAILS 20 & 21 ON S-400.

13. COLUMN FOOTINGS SUPPORTING MORE THAN ONE COLUMN SHALL BE CENTERED AT THE MIDPOINT BETWEEN THE COLUMNS, UNLESS NOTED OTHERWISE ON PLAN.

14. PROVIDE THICKENED SLAB UNDER ALL INTERIOR CMU WALLS WITHOUT FOOTINGS. SEE TYPICAL DETAIL 5/S-400. PROVIDE 8" THICKENED SLABS BELOW BASE OF ALL STAIRS AND BELOW INTERIOR BRICK PILASTERS EXTENDING APPROXIMATELY 20" BEYOND PILASTER. COORDINATE DIMENSIONS WITH FINAL ARCHITECTURAL CONSTRUCTION DOCUMENTS.

15. PROVIDE CONTROL/CONTRACTION JOINTS IN SLABS-ON-GRADE ALONG COLUMN CENTERLINES AND INTERMITTENTLY AT A MAXIMUM SPACING OF 36 X SLAB THICKNESS (I.E. 12' O.C. MAX FOR 4" THICK SLAB). ALL JOINTS IN SLABS TO RECEIVE THIN OR THICK-SET TERRAZZO, CERAMIC OR PORCELAIN TILE, VINYL-COMPOSITION TILE (VCT) OR VINYL SHEET GOODS, EPOXY OR SIMILAR THIN-FILM FINISH FLOORING SHALL BE CAREFULLY COORDINATED WITH THE FLOORING CONTRACTOR. SEE DETAIL 7/S-400.

16. PLAN LEGEND:

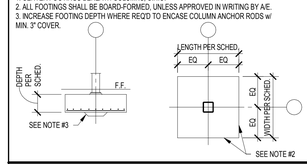
T.S.	DENOTES THICKENED SLAB BELOW BASE OF STAIRS & INTERIOR BRICK PILASTERS/WALLS (SEE NOTE 14 ABOVE).
F.F. / FFE	DENOTES FINISHED FLOOR ELEVATION
T/C	DENOTES TOP OF CONCRETE ELEVATION
T/F	DENOTES TOP OF FOOTING ELEVATION
M8	DENOTES WALL TYPE (INTERIOR WALLS ONLY). M6 = 6" CMU, M8 = 8" CMU & M12 = 12" CMU. SEE DETAILS 3 & 6 ON S-401.
T/F -2'-4" / T/F -4'-0"	DENOTES APPROXIMATE STEP FOOTING LOCATION AND TOP OF FOOTING ELEVATIONS ON RESPECTIVE SIDES REF. TYP. DETAIL 16/S-400
HSS8X8X1/2 P28 -1' - 0" F8.0 -2' - 8"	DENOTES COLUMN SIZE (REF. FRAMING PLANS FOR STUB COL'S NOT ON FDNS) DENOTES PIER MARK & TOP OF PIER ELEVATION (SEE PIER SCHED.) DENOTES COLUMN FOOTING MARK & TOP OF FTG. ELEVATION (SEE FTG. SCHED.)
STEEL COLUMN	
CONCRETE PIER	
COLUMN FOOTING	

COLUMN FOOTING SCHEDULE

FOOTING MARK	FOOTING SIZE WIDTH	x LENGTH	x DEPTH	REINFORCING (EACH WAY U.N.O.)
F5	5'-0"	5'-0"	1'-2"	(5) #5 x 4'-6"
F6	6'-0"	6'-0"	1'-2"	(6) #6 x 5'-6"
F7	7'-0"	7'-0"	1'-4"	(7) #6 x 6'-6"
F8	8'-0"	8'-0"	1'-6"	(8) #7 x 7'-6"
F8T	8'-0"	8'-0"	1'-6"	(8) #7 x 7'-6" TOP & BOTTOM
F9	9'-0"	9'-0"	1'-8"	(9) #7 x 8'-6"
F9T	9'-0"	9'-0"	1'-8"	(9) #7 x 8'-6" TOP & BOTTOM
F10	10'-0"	10'-0"	1'-10"	(10) #8 x 9'-6"
F10T	10'-0"	10'-0"	1'-10"	(10) #8 x 9'-6" TOP & BOTTOM
F11	11'-0"	11'-0"	2'-0"	(11) #8 x 10'-6"
F11T	11'-0"	11'-0"	2'-0"	(11) #8 x 10'-6" TOP & BOTTOM
F12	12'-0"	12'-0"	2'-2"	(12) #8 x 11'-6"

NOTES:

1. CENTER FOOTINGS BENEATH COLUMNS, U.N.O.
2. ALL FOOTINGS SHALL BE BOARD-FORMED, UNLESS APPROVED IN WRITING BY A/E.
3. INCREASE FOOTING DEPTH WHERE REQ'D TO ENCASE COLUMN ANCHOR RODS w/ MIN. 3" COVER.



CONCRETE PIER SCHEDULE

PIER MARK	PIER SIZE		PIER REINFORCING VERTICALS	TIES-SIZE & SPACING	DETAIL
P28	2'-4"	2'-4"	(4) #9	#4 @ 12" O.C.	A
P32	2'-8"	2'-8"	(4) #10	#4 @ 12" O.C.	A
P28X48	2'-4"	4'-0"	(8) #9	#4 @ 12" O.C.	E

1. PROVIDE MIN. 1-1/2" CLEAR TO PIER TIES.

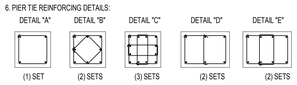
2. "CRITICAL HEIGHT" DENOTES HT. ABOVE WHICH LARGER DIA. VERTICALS WITH FEWER TIES MAY BE USED. REFER TO FOUNDATION PLAN(S) FOR T/P & T/F ELEVS.

3. TYPICAL TIE SPACING, UNLESS NOTED OTHERWISE: HOLD FIRST TIE 2" FROM TOP OF PIER. HOLD NEXT THREE TIES 3" ON CENTER, SPACE BALANCE OF TIES AT SCHEDULED SPACING, WITH BOTTOM TIE HELD 2" ABOVE TOP OF FOOTING.

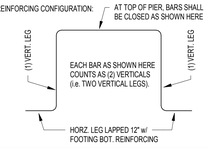
4. DOWELS TO FUNCTION AS PIER VERT'S FOR PIERS LESS THAN OR EQ. TO 5'-0" H. PROVIDE SEPARATE DOWELS & VERTICALS FOR PIERS GREATER THAN OR EQUAL TO 5'-0" H, UNLESS APPROVED.

5. CONTACT ENGINEER FOR DIRECTION IF COLUMN ANCHOR RODS FOUL WITH PIER TIES OR VERTICALS. FOR TIE DETAILS "C" & "E", REBAR DETAILER SHALL SIZE TIES TO AVOID CONFLICTS WITH COLUMN ANCHOR RODS.

6. PIER TIE REINFORCING DETAILS:



7. PIER VERTICAL REINFORCING CONFIGURATION:



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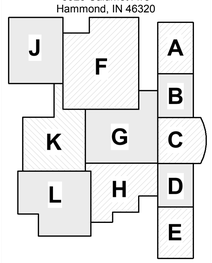


KEY PLAN

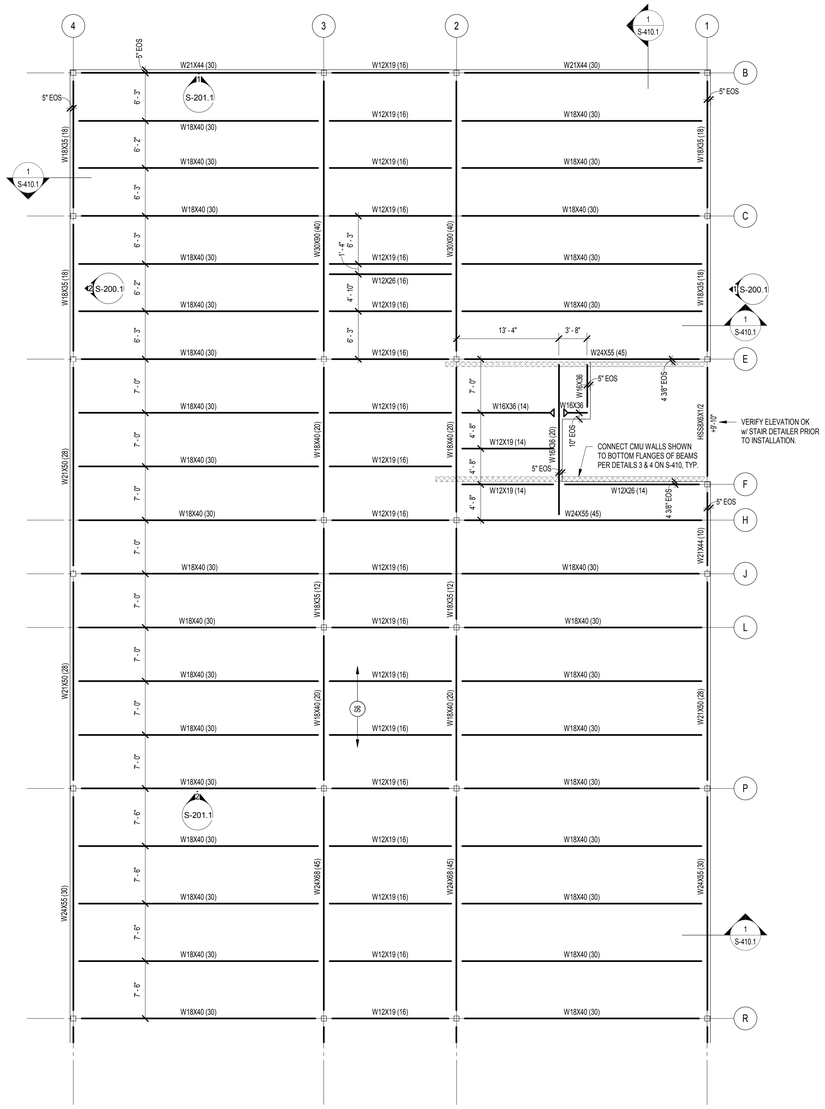
School City of Hammond

School City of Hammond

Hammond Middle High School

UNIT L FOUNDATION PLAN

SF1L1.1



1 SECOND FLOOR FRAMING PLAN - UNIT A
1/8" = 1'-0"

FRAMING PLAN NOTES

1. REF. S-600 FOR STRUCTURAL NOTES, DESIGN DATA & SCHEDULES.

2. SEE "GRID LAYOUT" SHEETS S-100, S-100A, S-100B, S-100C, ETC. FOR GRID DIMENSIONS & GEOMETRY.

3. ALL CONTRACTORS ARE REQUIRED TO COORDINATE THEIR WORK WITH ALL DISCIPLINES TO AVOID CONFLICTS. REFERENCE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS.

4. ALL ELEVATIONS ARE REFERENCED FROM THE FIRST FLOOR FINISHED FLOOR ELEVATION +0'-0".

5. SEE FOUNDATION PLANS FOR SIZES OF STEEL COLUMNS SUPPORTED ON FOUNDATIONS.

6. REF. S-500 & S-501 FOR TYPICAL CONNECTION & FRAMING DETAILS.

7. REF. S-502 FOR TYPICAL MASONRY DETAILS.

8. INSTALL CONTINUOUS BENT PLATE / ANGLE POUR STOPS AT ALL ELEVATED SLAB-ON-DECK PERIMETER EDGES AND AROUND ALL INTERIOR FLOOR OPENINGS (BOTH SHOWN AND NOT SHOWN). SEE DETAIL A/S-410.

9. INSTALL CONTINUOUS ANGLES AT ALL PERIMETER ROOF EDGES. SEE DETAIL B/S-410 FOR ATTACHMENT TO BEAM AND FOR ALL CONDITIONS NOT SPECIFICALLY DEFINED IN FRAMING SECTIONS.

10. INSTALL CONTINOUS CONCRETE CURBS PER DETAIL C/S-410 AROUND THE PERIMETER OF ALL MECHANICAL ROOMS AND AROUND ALL FLOOR PENETRATIONS BOTH SHOWN AND NOT SHOWN INCLUDING STEEL COLUMN PENETRATIONS. **(NOTE: CURBS IN FUTURE SCOPE OF WORK.)**

12. PLAN LEGEND:

NOTE: CONCRETE & W.W.F. IN FUTURE SCOPE OF WORK. STEEL DECK IS IN THIS SCOPE OF WORK.

- S6 — 4 1/2" N.W. CONCRETE SLAB w/ 6X6-W2.1XW2.1 W.W.F. OVER 1 1/2", 18 GA. GALVANIZED COMPOSITE STEEL FLOOR DECK TOTAL THICKNESS = 6". SEE DETAILS 3 & 4/S-501. T/SLAB @ 2ND FLOOR = +15'-4" & T/S = +14'-10" U.N.O. T/SLAB @ 3RD FLOOR = +30'-8" & T/S = +30'-2" U.N.O.
- R1.5 — 1 1/2", 18 GA. TYPE B WIDE-RIB STEEL ROOF DECK (PRIME PAINTED BOTH SIDES.) SEE DETAIL 5/S-501.
- R3 — 3", 20 GA. TYPE N STEEL ROOF DECK (PRIME PAINTED BOTH SIDES.) SEE DETAIL 13/S-501.
- E2.5 — 2 1/2", 20 GA. TORIS ROOF DECK BY EPIC METALS (G90 GALV. & PRIME PAINTED w/ EPIC'S NATACOAT SYSTEM.) SEE DETAIL 14/S-501.
- G1 — GALV. 19W4 BANDED STEEL GRATING w/ 1" X 3/16" BEARING BARS @ 1 3/16" O.C. & CROSS BARS AT 4" O.C.

T/S	DENOTES TOP OF STEEL ELEVATION.
B/S	DENOTES BOTTOM OF STEEL ELEVATION
E.O.S. (or EOS)	DENOTES EDGE OF SLAB (MEASURED FROM BEAM C.L.) SEE TYPICAL DETAIL A/S-410
E.O.D. (or EOD)	DENOTES EDGE OF DECK (MEASURED FROM BEAM C.L.) NOTE: PERIMETER ROOF ANGLE/BENT PL NOT REQUIRED.
E.O.L. (or EOL)	DENOTES EDGE OF ANGLE (MEASURED FROM BEAM C.L.) SEE TYPICAL DETAIL B/S-410
C.L.	DENOTES CENTERLINE
PL	DENOTES STEEL PLATE
S.O.D. (or SOD)	DENOTES SLAB-ON-DECK
S.O.G. (or SOG)	DENOTES SLAB-ON-GRADE
H.A.S.'s	DENOTES HEADED ANCHOR STUDS (FOR EXAMPLE, ALONG TOP FLANGES OF BEAMS INTO CMU ABOVE)

DENOTES BEAM-THRU-BEAM MOMENT CONNECTION. SEE DETAIL 17/S-500.

DENOTES BEAM-TO-HSS COLUMN MOMENT CONNECTION. CUT-TO-FIT & WELD ALL AROUND w/ MIN. 5/16" FILLET WELD.

W14X26 (23) — DENOTES STEEL BEAM SIZE. FOR MEMBERS INDICATED, DENOTES NUMBER OF 3/4" DIA. X 3 1/4" LONG HEADED SHEAR STUDS UNIFORMLY SPACED ALONG LENGTH OF BEAM. SEE DETAILS 1 & 2 ON S-501.

DENOTES APPROXIMATE SIZE/LOCATION OF MECHANICAL OPENINGS. COORDINATE EXACT SIZE/LOCATION AND QUANTITIES w/ MECHANICAL CONTRACTOR. REFERENCE TYPICAL OPENING DETAILS ON S-501. NOTE: ALL OPENINGS MAY NOT BE SHOWN ON PLAN.

NOTE: THE MECHANICAL AND PLUMBING DESIGNS ARE STILL BEING DEVELOPED AS OF THIS PRINTING, AND THEIREFORE, OPENING QUANTITIES/SIZES/LOCATIONS ARE LARGELY UNKNOWN. STEEL FABRICATOR SHALL COORDINATE OPENINGS WITH OTHER TRADES ONCE THOSE CONTRACTS HAVE BEEN ASSIGNED.

FOR MULTIPLE CLOSELY SPACED OPENINGS, TREAT AS ONE LARGE OPENING.

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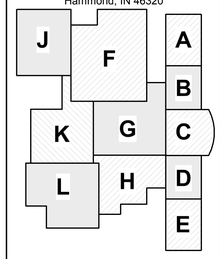

KEY PLAN

School City of Hammond

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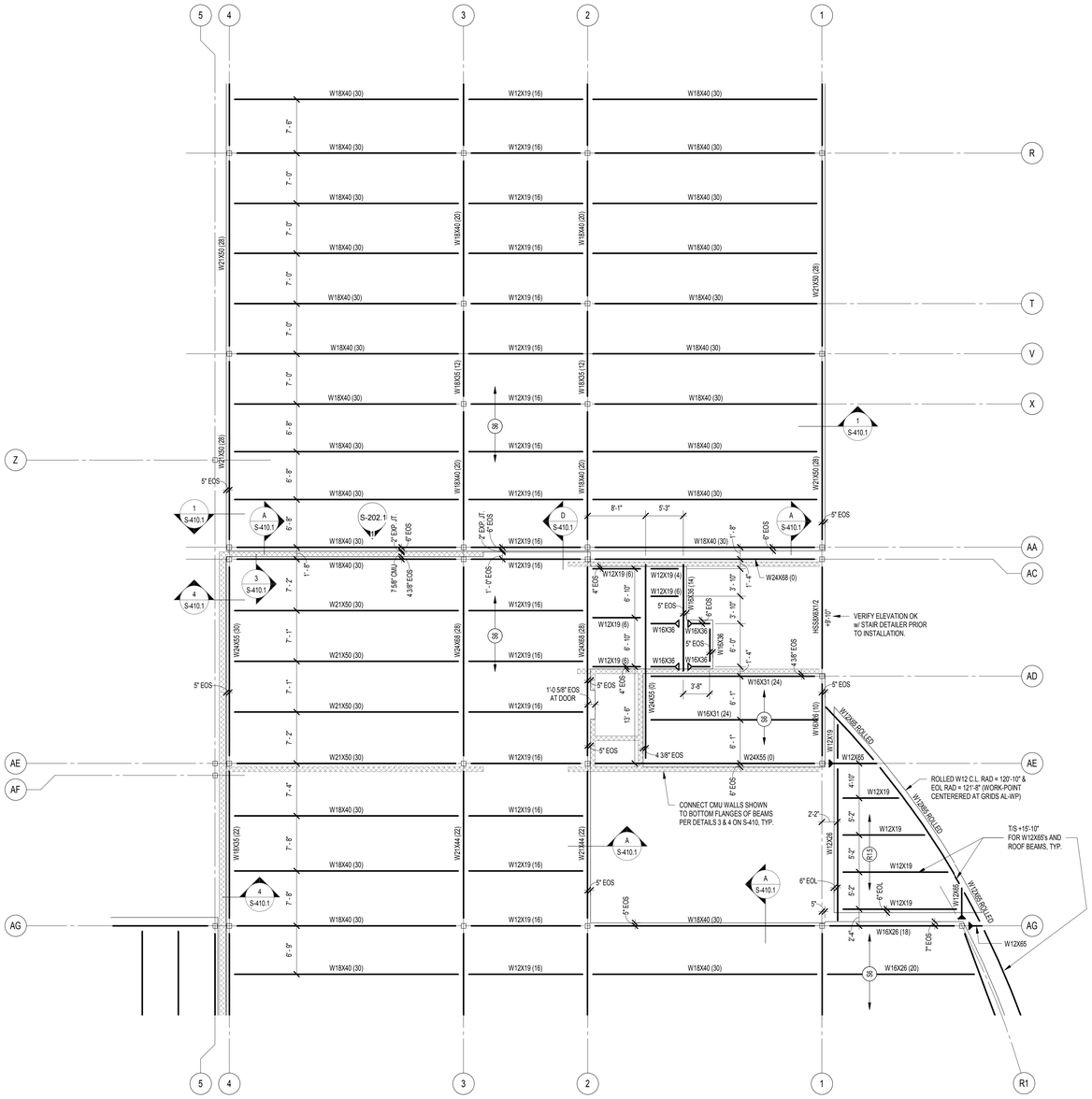
Hammond Middle High School

UNIT A SECOND FLOOR FRAMING PLAN

SF1A2.1



1 SECOND FLOOR FRAMING PLAN - UNIT B
1/8" = 1'-0"

FRAMING PLAN NOTES

1. REF. S-600 FOR STRUCTURAL NOTES, DESIGN DATA & SCHEDULES.

2. SEE "GRID LAYOUT" SHEETS S-100, S-100A, S-100B, S-100C, ETC. FOR GRID DIMENSIONS & GEOMETRY.

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8. INSTALL CONTINUOUS BENT PLATE / ANGLE POUR STOPS AT ALL ELEVATED SLAB-ON-DECK PERIMETER EDGES AND AROUND ALL INTERIOR FLOOR OPENINGS (BOTH SHOWN AND NOT SHOWN). SEE DETAIL A/S-410.

9. INSTALL CONTINUOUS ANGLES AT ALL PERIMETER ROOF EDGES. SEE DETAIL B/S-410 FOR ATTACHMENT TO BEAM AND FOR ALL CONDITIONS NOT SPECIFICALLY DEFINED IN FRAMING SECTIONS.

10. INSTALL CONTINOUS CONCRETE CURBS PER DETAIL C/S-410 AROUND THE PERIMETER OF ALL MECHANICAL ROOMS AND AROUND ALL FLOOR PENETRATIONS BOTH SHOWN AND NOT SHOWN INCLUDING STEEL COLUMN PENETRATIONS. **(NOTE: CURBS IN FUTURE SCOPE OF WORK.)**

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R1.5	1 1/2", 18 GA. TYPE B WIDE-RIB STEEL ROOF DECK (PRIME PAINTED BOTH SIDES.) SEE DETAIL 5/S-501.
R3	3", 20 GA. TYPE N STEEL ROOF DECK (PRIME PAINTED BOTH SIDES.) SEE DETAIL 13/S-501.
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G1	GALV. 19W4 BANDED STEEL GRATING w/ 1" X 3/16" BEARING BARS @ 1 3/16" O.C. & CROSS BARS AT 4" O.C.
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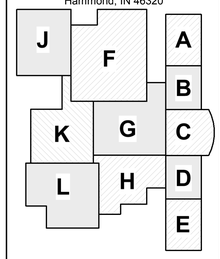

KEY PLAN

School City of Hammond

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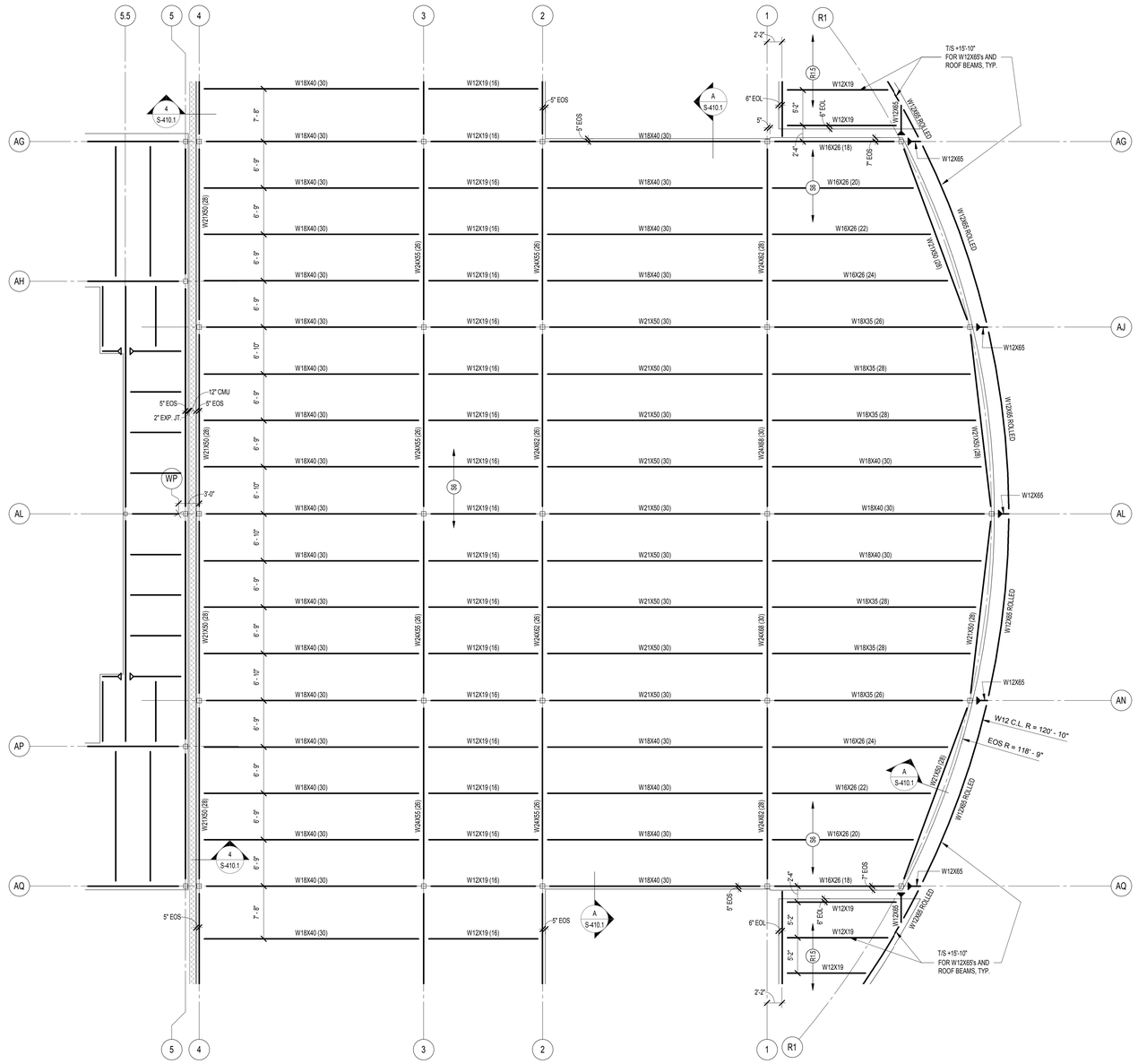
Hammond Middle High School

UNIT B SECOND FLOOR FRAMING PLAN

SF1B2.1



1 SECOND FLOOR FRAMING PLAN - UNIT C
1/8" = 1'-0"

FRAMING PLAN NOTES

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4. ALL ELEVATIONS ARE REFERENCED FROM THE FIRST FLOOR FINISHED FLOOR ELEVATION +0'-0".

5. SEE FOUNDATION PLANS FOR SIZES OF STEEL COLUMNS SUPPORTED ON FOUNDATIONS.

6. REF. S-500 & S-501 FOR TYPICAL CONNECTION & FRAMING DETAILS.

7. REF. S-502 FOR TYPICAL MASONRY DETAILS.

8. INSTALL CONTINUOUS BENT PLATE / ANGLE POUR STOPS AT ALL ELEVATED SLAB-ON-DECK PERIMETER EDGES AND AROUND ALL INTERIOR FLOOR OPENINGS (BOTH SHOWN AND NOT SHOWN). SEE DETAIL A/S-410.

9. INSTALL CONTINUOUS ANGLES AT ALL PERIMETER ROOF EDGES. SEE DETAIL B/S-410 FOR ATTACHMENT TO BEAM AND FOR ALL CONDITIONS NOT SPECIFICALLY DEFINED IN FRAMING SECTIONS.

10. INSTALL CONTINOUS CONCRETE CURBS PER DETAIL C/S-410 AROUND THE PERIMETER OF ALL MECHANICAL ROOMS AND AROUND ALL FLOOR PENETRATIONS BOTH SHOWN AND NOT SHOWN INCLUDING STEEL COLUMN PENETRATIONS. **(NOTE: CURBS IN FUTURE SCOPE OF WORK.)**

12. PLAN LEGEND:

NOTE: CONCRETE & W.W.F. IN FUTURE SCOPE OF WORK. STEEL DECK IS IN THIS SCOPE OF WORK.

S6	4 1/2" N.W. CONCRETE SLAB w/ 6X6-W2.1XW2.1 W.W.F. OVER 1 1/2", 18 GA. GALVANIZED COMPOSITE STEEL FLOOR DECK TOTAL THICKNESS = 6". SEE DETAILS 3 & 4/S-501. T/SLAB @ 2ND FLOOR = +15'-4" & T/S = +14'-10" U.N.O. T/SLAB @ 3RD FLOOR = +30'-8" & T/S = +30'-2" U.N.O.
R1.5	1 1/2", 18 GA. TYPE B WIDE-RIB STEEL ROOF DECK (PRIME PAINTED BOTH SIDES.) SEE DETAIL 5/S-501.
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T/S	DENOTES TOP OF STEEL ELEVATION.
B/S	DENOTES BOTTOM OF STEEL ELEVATION
E.O.S. (or EOS)	DENOTES EDGE OF SLAB (MEASURED FROM BEAM C.L.) SEE TYPICAL DETAIL A/S-410
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C.L.	DENOTES CENTERLINE
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W14X26 (23)	DENOTES STEEL BEAM SIZE FOR MEMBERS INDICATED. DENOTES NUMBER OF 3/4" DIA. X 3 1/4" LONG HEADED SHEAR STUDS UNIFORMLY SPACED ALONG LENGTH OF BEAM. SEE DETAILS 1 & 2 ON S-501.
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Project No. 2017-105.MHS
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Produced RMD

WESLEY B. HAMILTON
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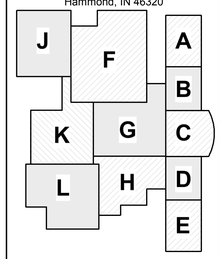

KEY PLAN

School City of Hammond

School City of Hammond

Hammond Middle High School

UNIT C SECOND FLOOR FRAMING PLAN

SF1C2.1

SF1C2.1_UNIT C SECOND FLOOR FRAMING PLAN
2017-105.MHS_HAMMOND HIGH SCHOOL
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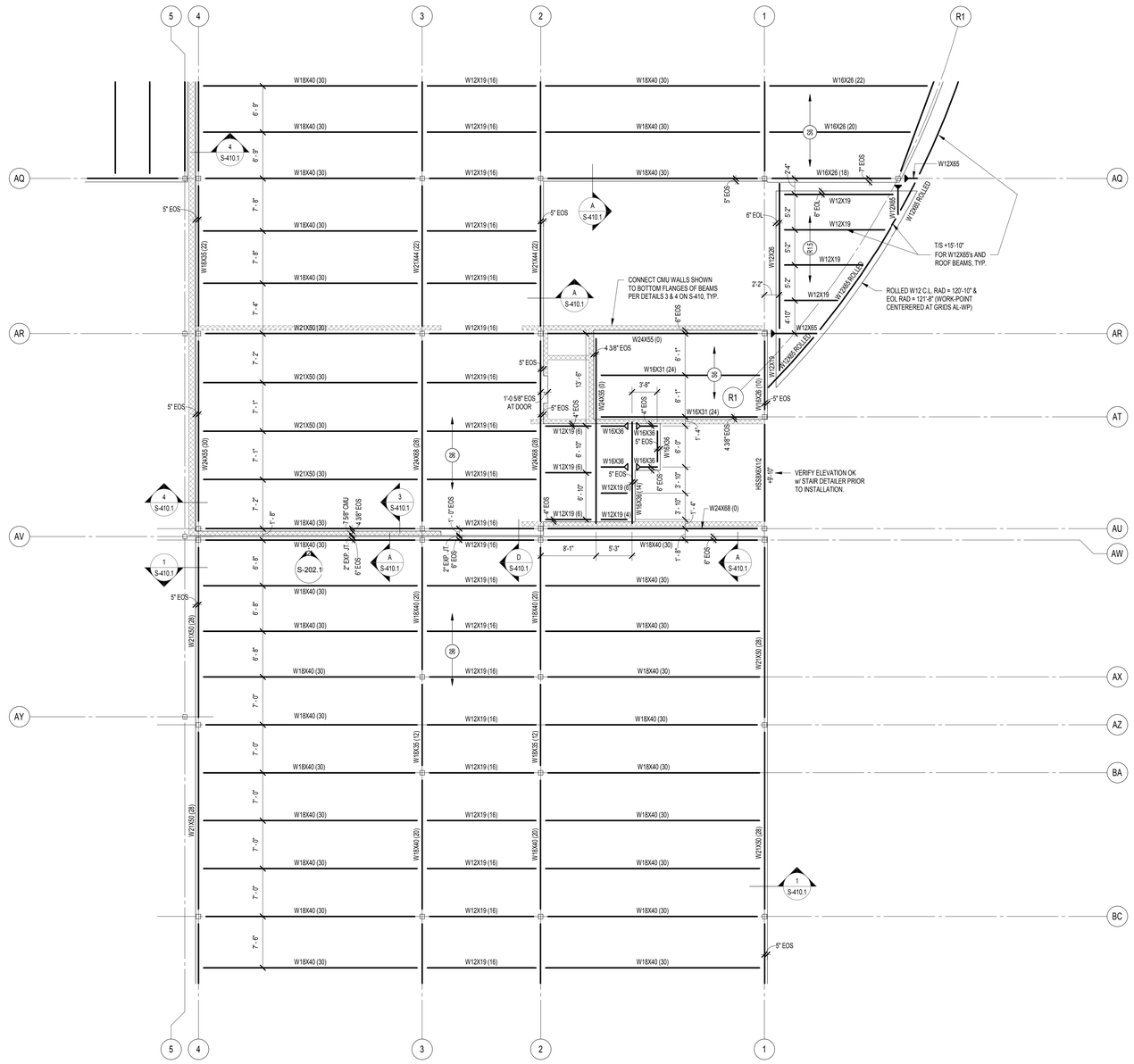

1 SECOND FLOOR FRAMING PLAN - UNIT D
1/8" = 1'-0"

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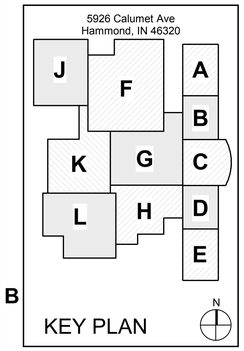


KEY PLAN

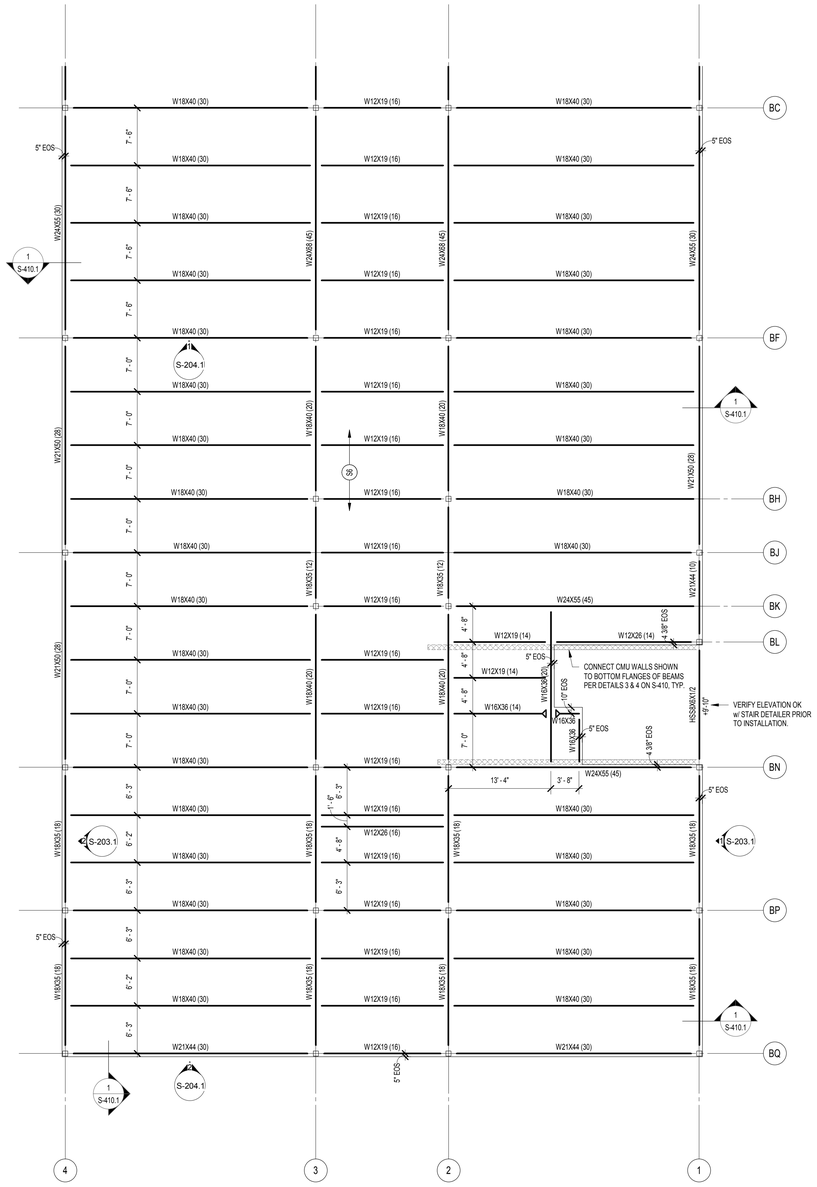
School City of Hammond

School City of Hammond

Hammond Middle High School

UNIT D SECOND FLOOR FRAMING PLAN

SF1D2.1



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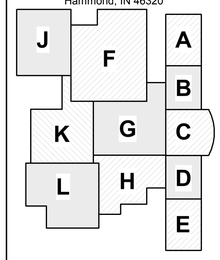

KEY PLAN

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Hammond Middle High School

UNIT E SECOND FLOOR FRAMING PLAN

SF1E2.1

SF1E2.1_UNIT E SECOND FLOOR FRAMING PLAN
2017-105.MHS - HAMMOND HIGH SCHOOL - HAMMOND, IN
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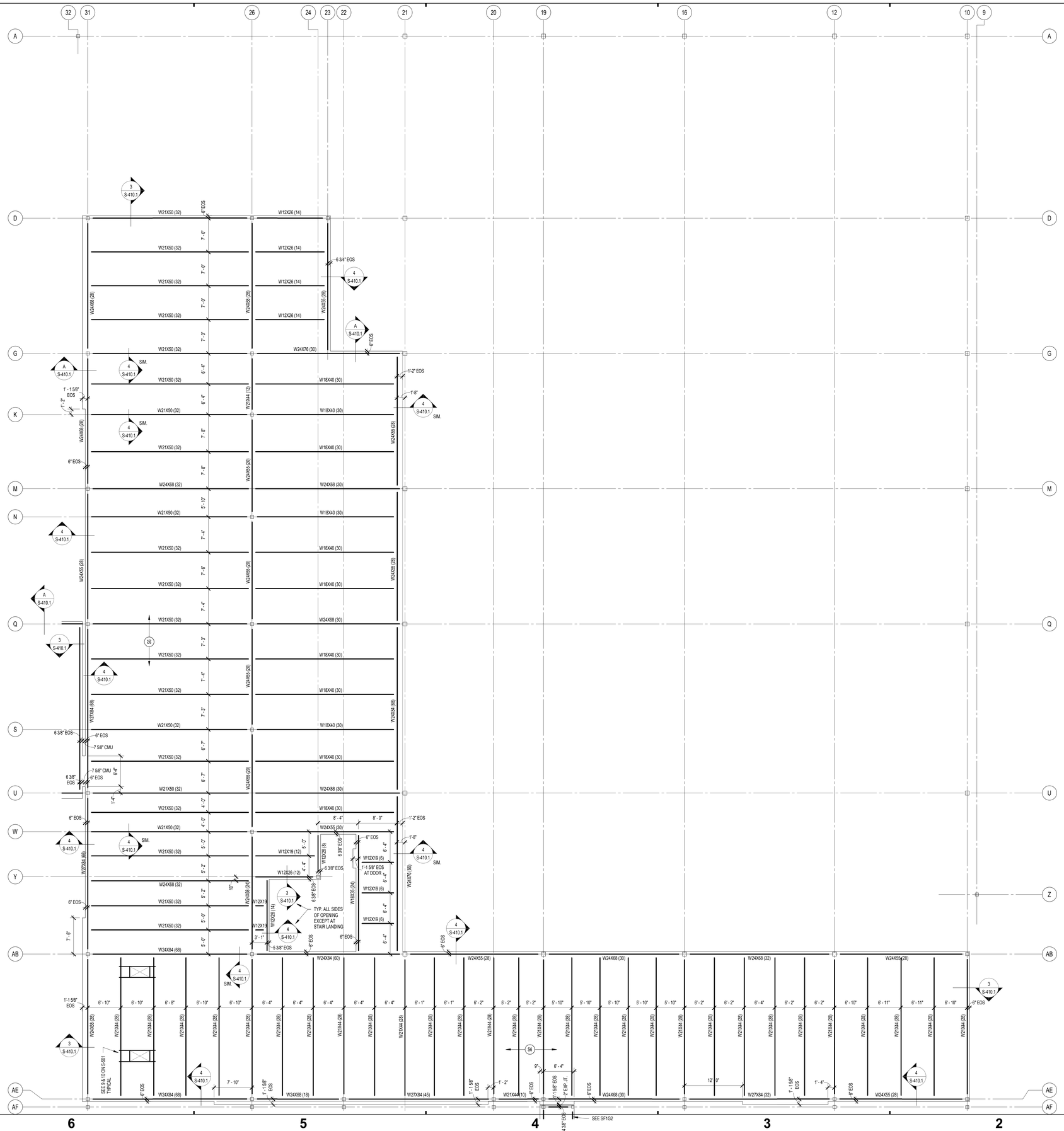

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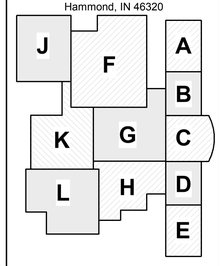

KEY PLAN

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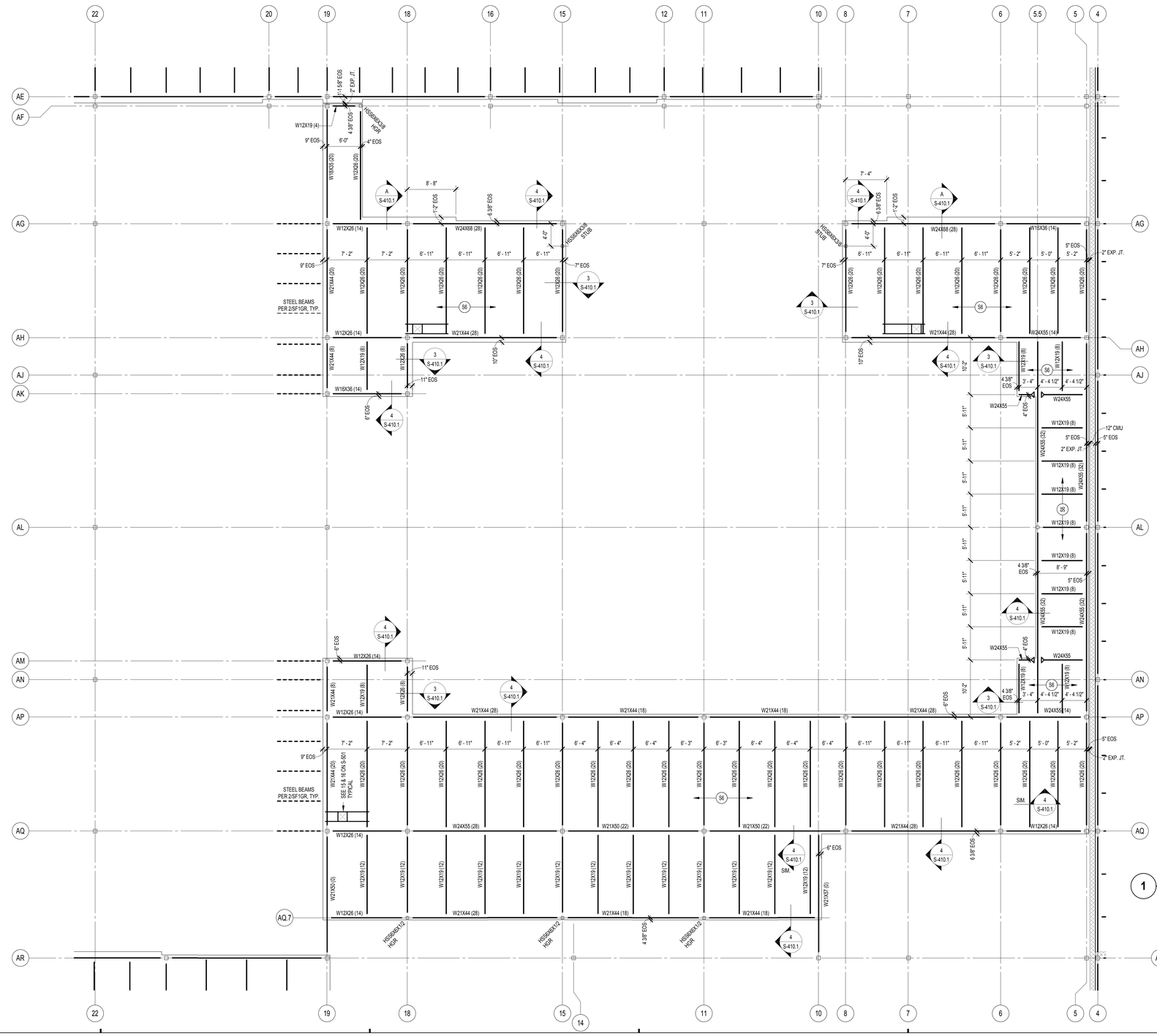
Hammond Middle High School

UNIT F SECOND FLOOR FRAMING PLAN

SF1F2.1



1 SECOND FLOOR FRAMING PLAN - UNIT G
1/8" = 1'-0"

FRAMING PLAN NOTES

1. REF. S-600 FOR STRUCTURAL NOTES, DESIGN DATA & SCHEDULES.

2. SEE "GRID LAYOUT" SHEETS S-100, S-100A, S-100B, S-100C, ETC. FOR GRID DIMENSIONS & GEOMETRY.

3. ALL CONTRACTORS ARE REQUIRED TO COORDINATE THEIR WORK WITH ALL DISCIPLINES TO AVOID CONFLICTS. REFERENCE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS.

4. ALL ELEVATIONS ARE REFERENCED FROM THE FIRST FLOOR FINISHED FLOOR ELEVATION +0'-0".

5. SEE FOUNDATION PLANS FOR SIZES OF STEEL COLUMNS SUPPORTED ON FOUNDATIONS.

6. REF. S-500 & S-501 FOR TYPICAL CONNECTION & FRAMING DETAILS.

7. REF. S-502 FOR TYPICAL MASONRY DETAILS.

8. INSTALL CONTINUOUS BENT PLATE / ANGLE POUR STOPS AT ALL ELEVATED SLAB-ON-DECK PERIMETER EDGES AND AROUND ALL INTERIOR FLOOR OPENINGS (BOTH SHOWN AND NOT SHOWN). SEE DETAIL A/S-410.

9. INSTALL CONTINUOUS ANGLES AT ALL PERIMETER ROOF EDGES. SEE DETAIL B/S-410 FOR ATTACHMENT TO BEAM AND FOR ALL CONDITIONS NOT SPECIFICALLY DEFINED IN FRAMING SECTIONS.

10. INSTALL CONTINOUS CONCRETE CURBS PER DETAIL C/S-410 AROUND THE PERIMETER OF ALL MECHANICAL ROOMS AND AROUND ALL FLOOR PENETRATIONS BOTH SHOWN AND NOT SHOWN INCLUDING STEEL COLUMN PENETRATIONS. **(NOTE: CURBS IN FUTURE SCOPE OF WORK.)**

12. PLAN LEGEND:

NOTE: CONCRETE & W.W.F. IN FUTURE SCOPE OF WORK. STEEL DECK IS IN THIS SCOPE OF WORK.

- S6 — 4 1/2" N.W. CONCRETE SLAB w/ 6X6-W2.1XW2.1 W.W.F. OVER 1 1/2", 18 GA. GALVANIZED COMPOSITE STEEL FLOOR DECK TOTAL THICKNESS = 6". SEE DETAILS 3 & 4/S-501. T/SLAB @ 2ND FLOOR = +15'-4" & T/S = +14'-10" U.N.O. T/SLAB @ 3RD FLOOR = +30'-8" & T/S = +30'-2" U.N.O.
- R1.5 — 1 1/2", 18 GA. TYPE B WIDE-RIB STEEL ROOF DECK (PRIME PAINTED BOTH SIDES.) SEE DETAIL 5/S-501.
- R3 — 3", 20 GA. TYPE N STEEL ROOF DECK (PRIME PAINTED BOTH SIDES.) SEE DETAIL 13/S-501.
- 2.5 — 2 1/2", 20 GA. TORIS ROOF DECK BY EPIC METALS (G90 GALV. & PRIME PAINTED w/ EPIC'S NATACOAT SYSTEM.) SEE DETAIL 14/S-501.
- G1 — GALV. 19W4 BANDED STEEL GRATING w/ 1" X 3/16" BEARING BARS @ 1 3/16" O.C. & CROSS BARS AT 4" O.C.

T/S	DENOTES TOP OF STEEL ELEVATION.
B/S	DENOTES BOTTOM OF STEEL ELEVATION
E.O.S. (or EOS)	DENOTES EDGE OF SLAB (MEASURED FROM BEAM C.L.) SEE TYPICAL DETAIL A/S-410
E.O.D. (or EOD)	DENOTES EDGE OF DECK (MEASURED FROM BEAM C.L.) NOTE: PERIMETER ROOF ANGLE/BENT PL NOT REQUIRED.
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C.L.	DENOTES CENTERLINE
PL	DENOTES STEEL PLATE
S.O.D. (or SOD)	DENOTES SLAB-ON-DECK
S.O.G. (or SOG)	DENOTES SLAB-ON-GRADE
H.A.S.'s	DENOTES HEADED ANCHOR STUDS (FOR EXAMPLE, ALONG TOP FLANGES OF BEAMS INTO CMU ABOVE)

DENOTES BEAM-THRU-BEAM MOMENT CONNECTION. SEE DETAIL 17/S-500.

DENOTES BEAM-TO-HSS COLUMN MOMENT CONNECTION. CUT-TO-FIT & WELD ALL AROUND w/ MIN. 5/16" FILLET WELD.

W14X26 (23) — DENOTES STEEL BEAM SIZE

FOR MEMBERS INDICATED, DENOTES NUMBER OF 3/4" DIA. X 3 1/4" LONG HEADED SHEAR STUDS UNIFORMLY SPACED ALONG LENGTH OF BEAM. SEE DETAILS 1 & 2 ON S-501.

DENOTES APPROXIMATE SIZE/LOCATION OF MECHANICAL OPENINGS. COORDINATE EXACT SIZE/LOCATION AND QUANTITIES w/ MECHANICAL CONTRACTOR. REFERENCE TYPICAL OPENING DETAILS ON S-501. NOTE: ALL OPENINGS MAY NOT BE SHOWN ON PLAN.

NOTE: THE MECHANICAL AND PLUMBING DESIGNS ARE STILL BEING DEVELOPED AS OF THIS PRINTING, AND THEREFORE, OPENING QUANTITIES/SIZES/LOCATIONS ARE LARGELY UNKNOWN. STEEL FABRICATOR SHALL COORDINATE OPENINGS WITH OTHER TRADES ONCE THOSE CONTRACTS HAVE BEEN ASSIGNED.

FOR MULTIPLE CLOSELY SPACED OPENINGS, TREAT AS ONE LARGE OPENING.

SCHMIDT ASSOCIATES
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Project No. 2017-105.MHS
Project Date 09.06.2018
Produced RMD

WESLEY B. HAMILTON — REGISTERED — PE60860410 — STATE OF Indiana — PROFESSIONAL ENGINEER

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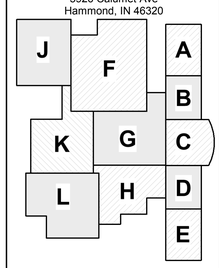


KEY PLAN

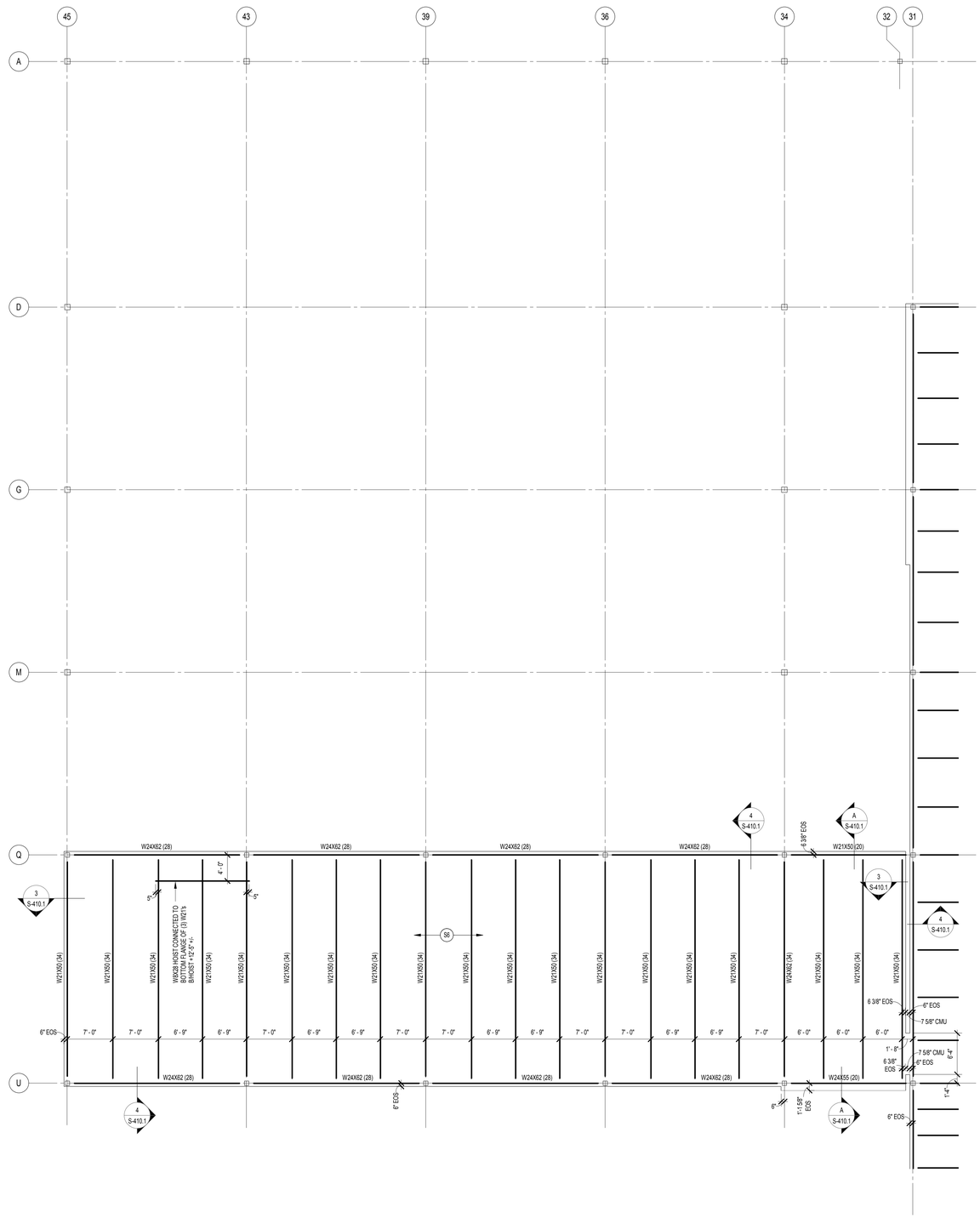
School City of Hammond

School City of Hammond

Hammond Middle High School

UNIT G SECOND FLOOR FRAMING PLAN

SF1G2.1



1 SECOND FLOOR FRAMING PLAN - UNIT J
1/8" = 1'-0"

FRAMING PLAN NOTES

1. REF. S-600 FOR STRUCTURAL NOTES, DESIGN DATA & SCHEDULES.

2. SEE "GRID LAYOUT" SHEETS S-100, S-100A, S-100B, S-100C, ETC. FOR GRID DIMENSIONS & GEOMETRY.

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T/S	DENOTES TOP OF STEEL ELEVATION.
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C.L.	DENOTES CENTERLINE
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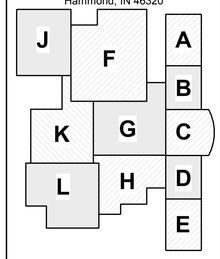


KEY PLAN

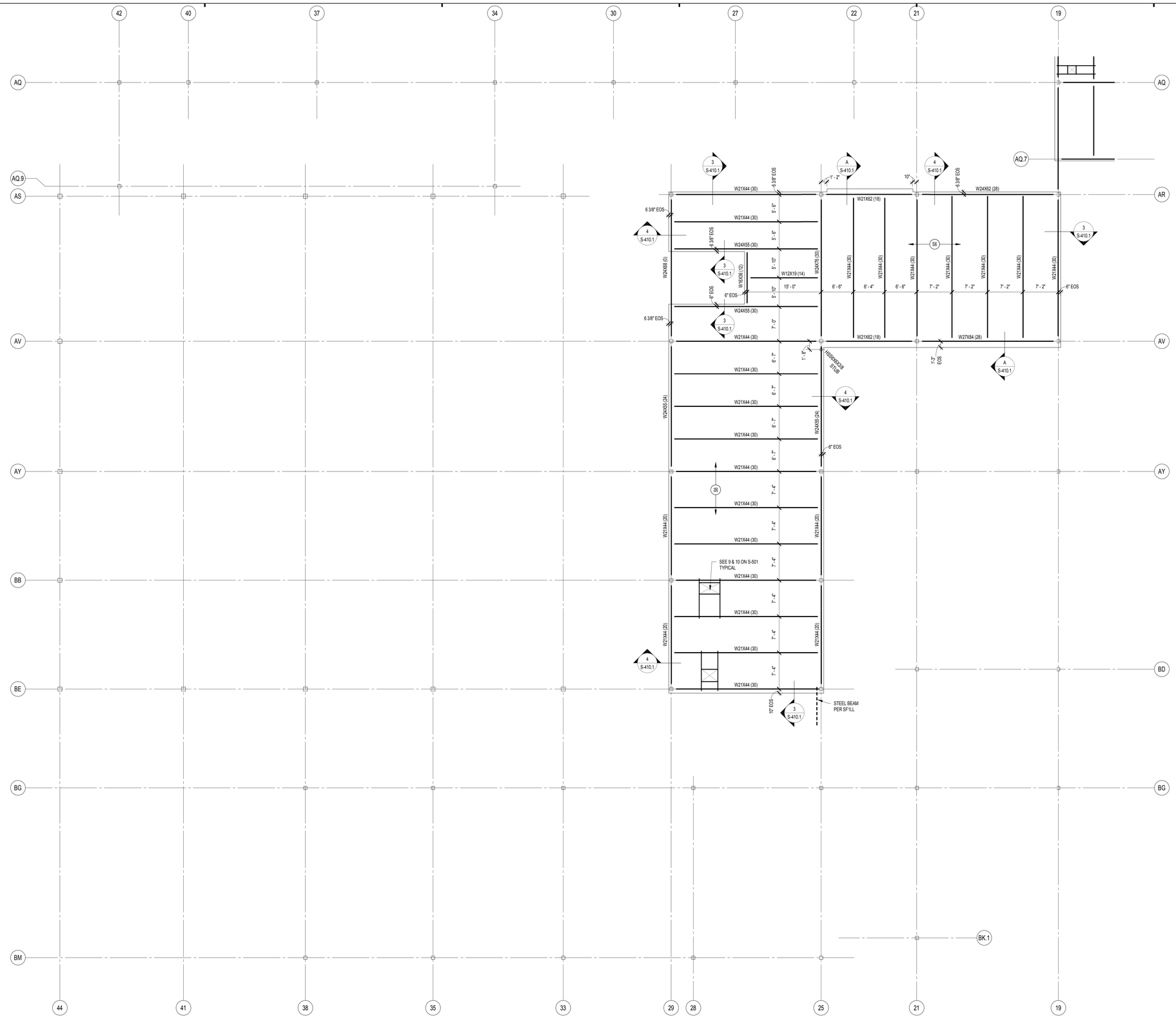
School City of Hammond

School City of Hammond

Hammond Middle High School

UNIT J SECOND FLOOR FRAMING PLAN

SF1J2.1



1 SECOND FLOOR FRAMING PLAN - UNIT L
1/8" = 1'-0"

FRAMING PLAN NOTES

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W14X26 (23)

DENOTES STEEL BEAM SIZE

FOR MEMBERS INDICATED. DENOTES NUMBER OF 3/4" DIA. X 3 1/4" LONG HEADED SHEAR STUDS UNIFORMLY SPACED ALONG LENGTH OF BEAM. SEE DETAILS 1 & 2 ON S-501.

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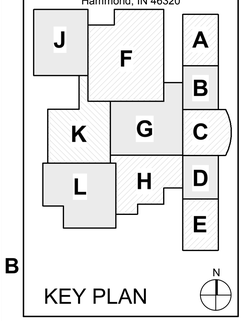


KEY PLAN

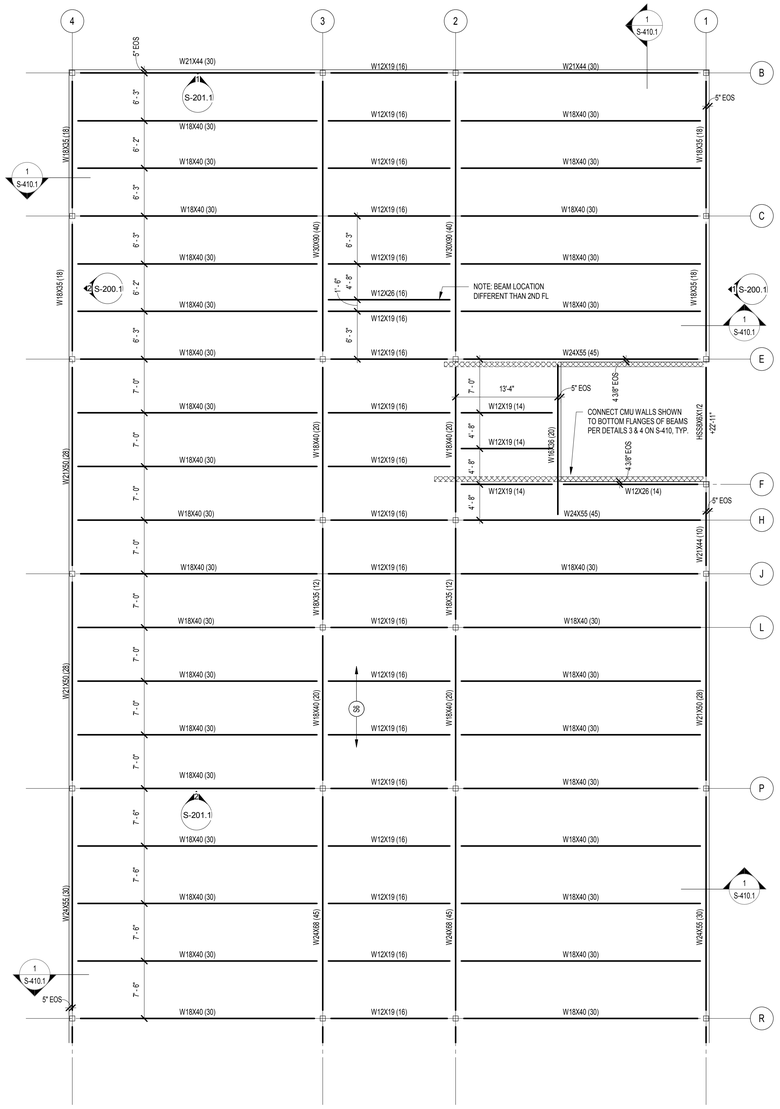
School City of Hammond

School City of Hammond

Hammond Middle High School

UNIT L SECOND FLOOR FRAMING PLAN

SF1L2.1



1 THIRD FLOOR FRAMING PLAN - UNIT A
1/8" = 1'-0"

FRAMING PLAN NOTES

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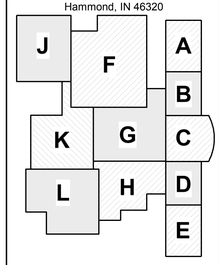

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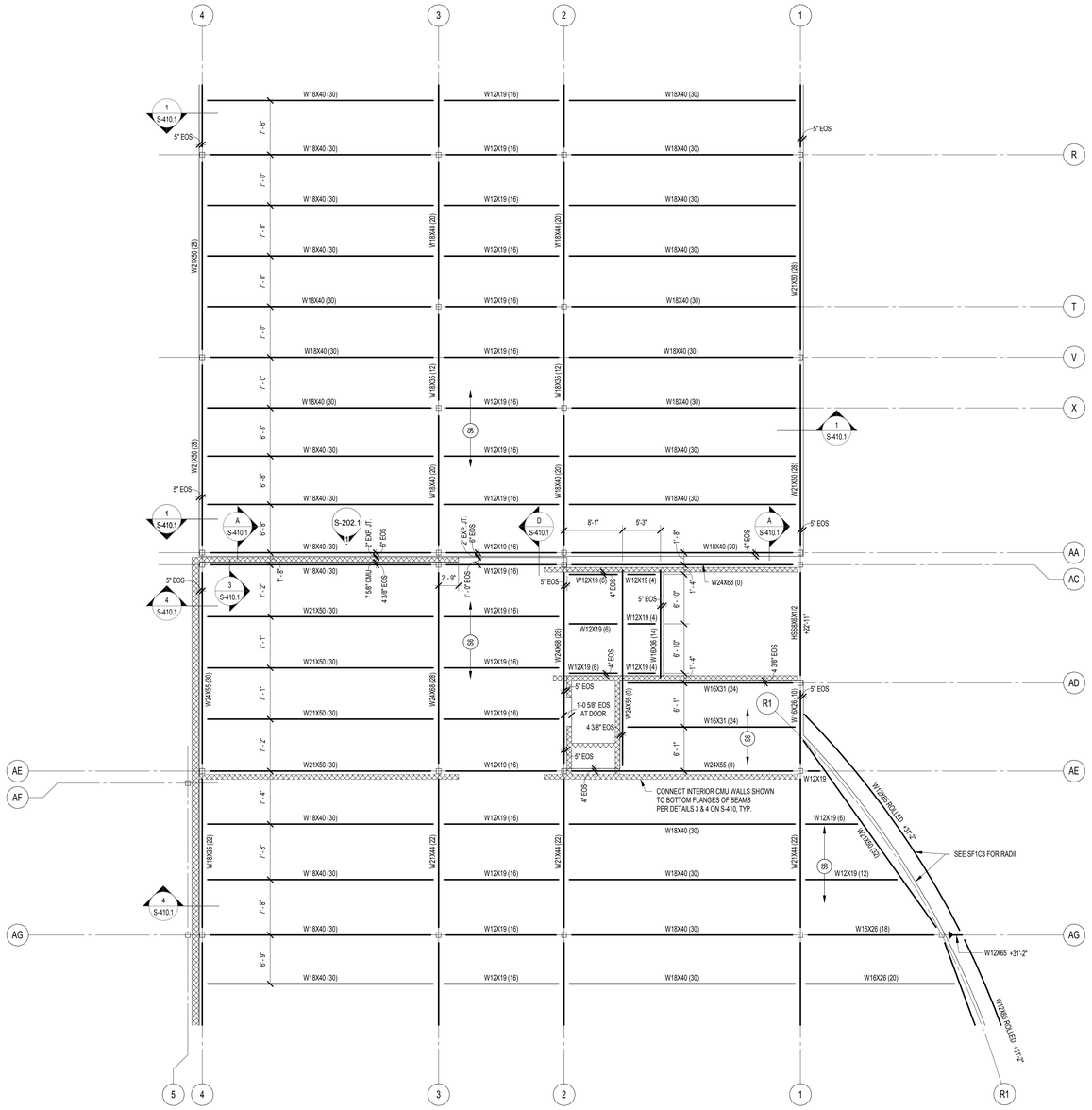
School City of Hammond

Hammond Middle High School

UNIT A THIRD FLOOR FRAMING PLAN

SF1A3.1



1 THIRD FLOOR FRAMING PLAN - UNIT B
1/8" = 1'-0"

FRAMING PLAN NOTES

1. REF. S-600 FOR STRUCTURAL NOTES, DESIGN DATA & SCHEDULES.

2. SEE "GRID LAYOUT" SHEETS S-100, S-100A, S-100B, S-100C, ETC. FOR GRID DIMENSIONS & GEOMETRY.

3. ALL CONTRACTORS ARE REQUIRED TO COORDINATE THEIR WORK WITH ALL DISCIPLINES TO AVOID CONFLICTS. REFERENCE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS.

4. ALL ELEVATIONS ARE REFERENCED FROM THE FIRST FLOOR FINISHED FLOOR ELEVATION +0'-0".

5. SEE FOUNDATION PLANS FOR SIZES OF STEEL COLUMNS SUPPORTED ON FOUNDATIONS.

6. REF. S-500 & S-501 FOR TYPICAL CONNECTION & FRAMING DETAILS.

7. REF. S-502 FOR TYPICAL MASONRY DETAILS.

8. INSTALL CONTINUOUS BENT PLATE / ANGLE POUR STOPS AT ALL ELEVATED SLAB-ON-DECK PERIMETER EDGES AND AROUND ALL INTERIOR FLOOR OPENINGS (BOTH SHOWN AND NOT SHOWN). SEE DETAIL A/S-410.

9. INSTALL CONTINUOUS ANGLES AT ALL PERIMETER ROOF EDGES. SEE DETAIL B/S-410 FOR ATTACHMENT TO BEAM AND FOR ALL CONDITIONS NOT SPECIFICALLY DEFINED IN FRAMING SECTIONS.

10. INSTALL CONTINOUS CONCRETE CURBS PER DETAIL C/S-410 AROUND THE PERIMETER OF ALL MECHANICAL ROOMS AND AROUND ALL FLOOR PENETRATIONS BOTH SHOWN AND NOT SHOWN INCLUDING STEEL COLUMN PENETRATIONS. **(NOTE: CURBS IN FUTURE SCOPE OF WORK.)**

12. PLAN LEGEND:

NOTE: CONCRETE & W.W.F. IN FUTURE SCOPE OF WORK. STEEL DECK IS IN THIS SCOPE OF WORK.

- S6 — 4 1/2" N.W. CONCRETE SLAB w/ 6X6-W2.1XW2.1 W.W.F. OVER 1 1/2", 18 GA. GALVANIZED COMPOSITE STEEL FLOOR DECK TOTAL THICKNESS = 6". SEE DETAILS 3 & 4/S-501. T/SLAB @ 2ND FLOOR = +15'-4" & T/S = +14'-10" U.N.O. T/SLAB @ 3RD FLOOR = +30'-8" & T/S = +30'-2" U.N.O.
- R1.5 — 1 1/2", 18 GA. TYPE B WIDE-RIB STEEL ROOF DECK (PRIME PAINTED BOTH SIDES.) SEE DETAIL 5/S-501.
- R3 — 3", 20 GA. TYPE N STEEL ROOF DECK (PRIME PAINTED BOTH SIDES.) SEE DETAIL 13/S-501.
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- G1 — GALV. 19W4 BANDED STEEL GRATING w/ 1" X 3/16" BEARING BARS @ 1 3/16" O.C. & CROSS BARS AT 4" O.C.

T/S	DENOTES TOP OF STEEL ELEVATION.
B/S	DENOTES BOTTOM OF STEEL ELEVATION
E.O.S. (or EOS)	DENOTES EDGE OF SLAB (MEASURED FROM BEAM C.L.) SEE TYPICAL DETAIL A/S-410
E.O.D. (or EOD)	DENOTES EDGE OF DECK (MEASURED FROM BEAM C.L.) NOTE: PERIMETER ROOF ANGLE/BENT PL NOT REQUIRED.
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C.L.	DENOTES CENTERLINE
PL	DENOTES STEEL PLATE
S.O.D. (or SOD)	DENOTES SLAB-ON-DECK
S.O.G. (or SOG)	DENOTES SLAB-ON-GRADE
H.A.S.'s	DENOTES HEADED ANCHOR STUDS (FOR EXAMPLE, ALONG TOP FLANGES OF BEAMS INTO CMU ABOVE)

DENOTES BEAM-THRU-BEAM MOMENT CONNECTION. SEE DETAIL 17/S-500.

DENOTES BEAM-TO-HSS COLUMN MOMENT CONNECTION. CUT-TO-FIT & WELD ALL AROUND w/ MIN. 5/16" FILLET WELD.

W14X26 (23) — DENOTES STEEL BEAM SIZE

FOR MEMBERS INDICATED, DENOTES NUMBER OF 3/4" DIA. X 3 1/4" LONG HEADED SHEAR STUDS UNIFORMLY SPACED ALONG LENGTH OF BEAM. SEE DETAILS 1 & 2 ON S-501.

DENOTES APPROXIMATE SIZE/LOCATION OF MECHANICAL OPENINGS. COORDINATE EXACT SIZE/LOCATION AND QUANTITIES w/ MECHANICAL CONTRACTOR. REFERENCE TYPICAL OPENING DETAILS ON S-501. NOTE: ALL OPENINGS MAY NOT BE SHOWN ON PLAN.

NOTE: THE MECHANICAL AND PLUMBING DESIGNS ARE STILL BEING DEVELOPED AS OF THIS PRINTING, AND THEREFORE, OPENING QUANTITIES/SIZES/LOCATIONS ARE LARGELY UNKNOWN. STEEL FABRICATOR SHALL COORDINATE OPENINGS WITH OTHER TRADES ONCE THOSE CONTRACTS HAVE BEEN ASSIGNED.

FOR MULTIPLE CLOSELY SPACED OPENINGS, TREAT AS ONE LARGE OPENING.

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Project No. 2017-105.MHS
Project Date 09.06.2018
Produced RMD

WESLEY B. HARRISON
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STATE OF
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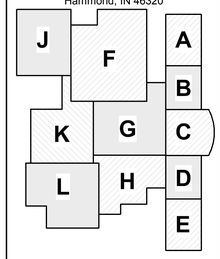


KEY PLAN

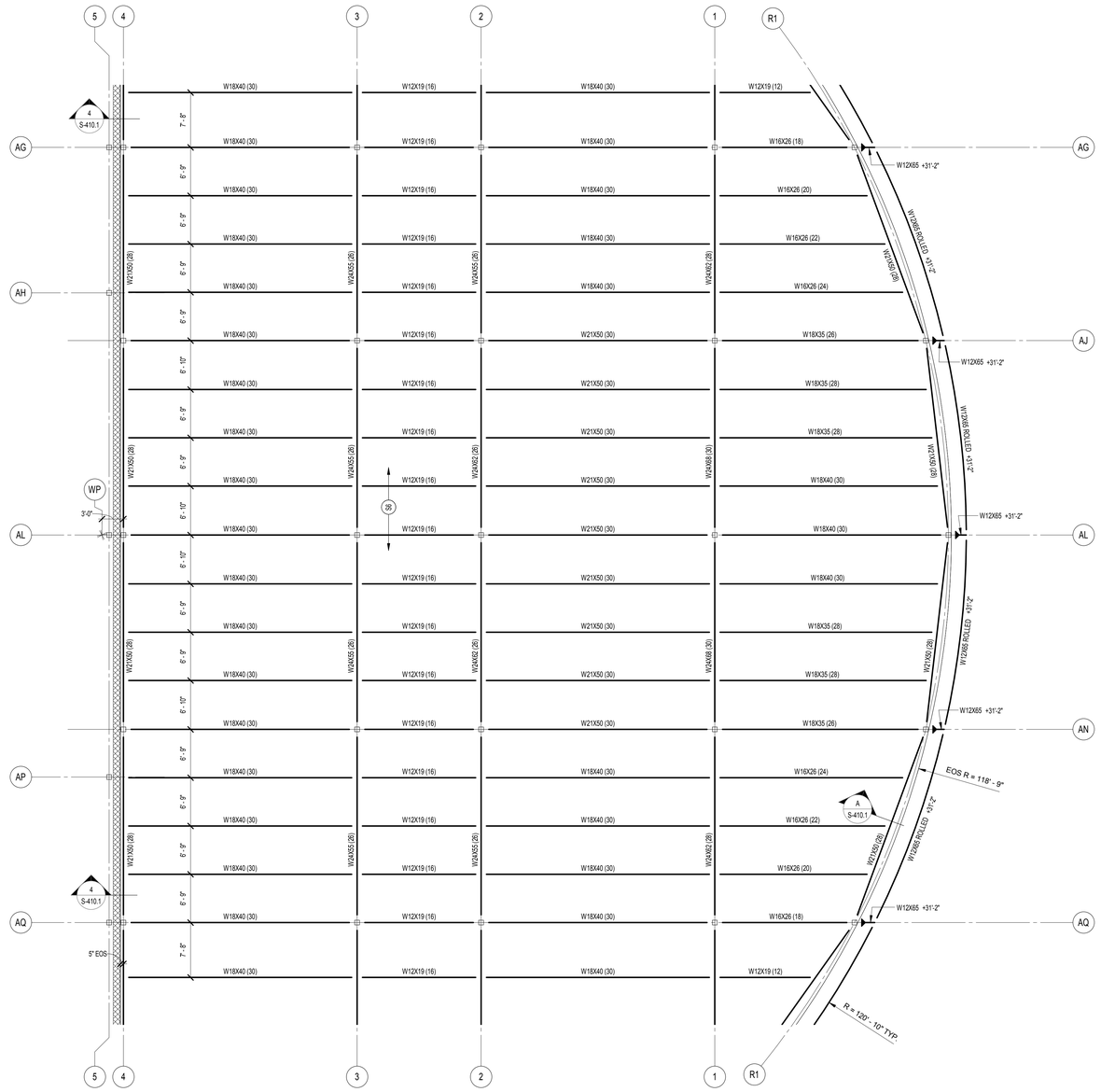
School City of Hammond

School City of Hammond

Hammond Middle High School

UNIT B THIRD FLOOR FRAMING PLAN

SF1B3.1



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FRAMING PLAN NOTES

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9. INSTALL CONTINUOUS ANGLES AT ALL PERIMETER ROOF EDGES. SEE DETAIL B/S-410 FOR ATTACHMENT TO BEAM AND FOR ALL CONDITIONS NOT SPECIFICALLY DEFINED IN FRAMING SECTIONS.

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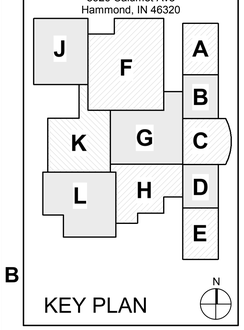

KEY PLAN

School City of Hammond

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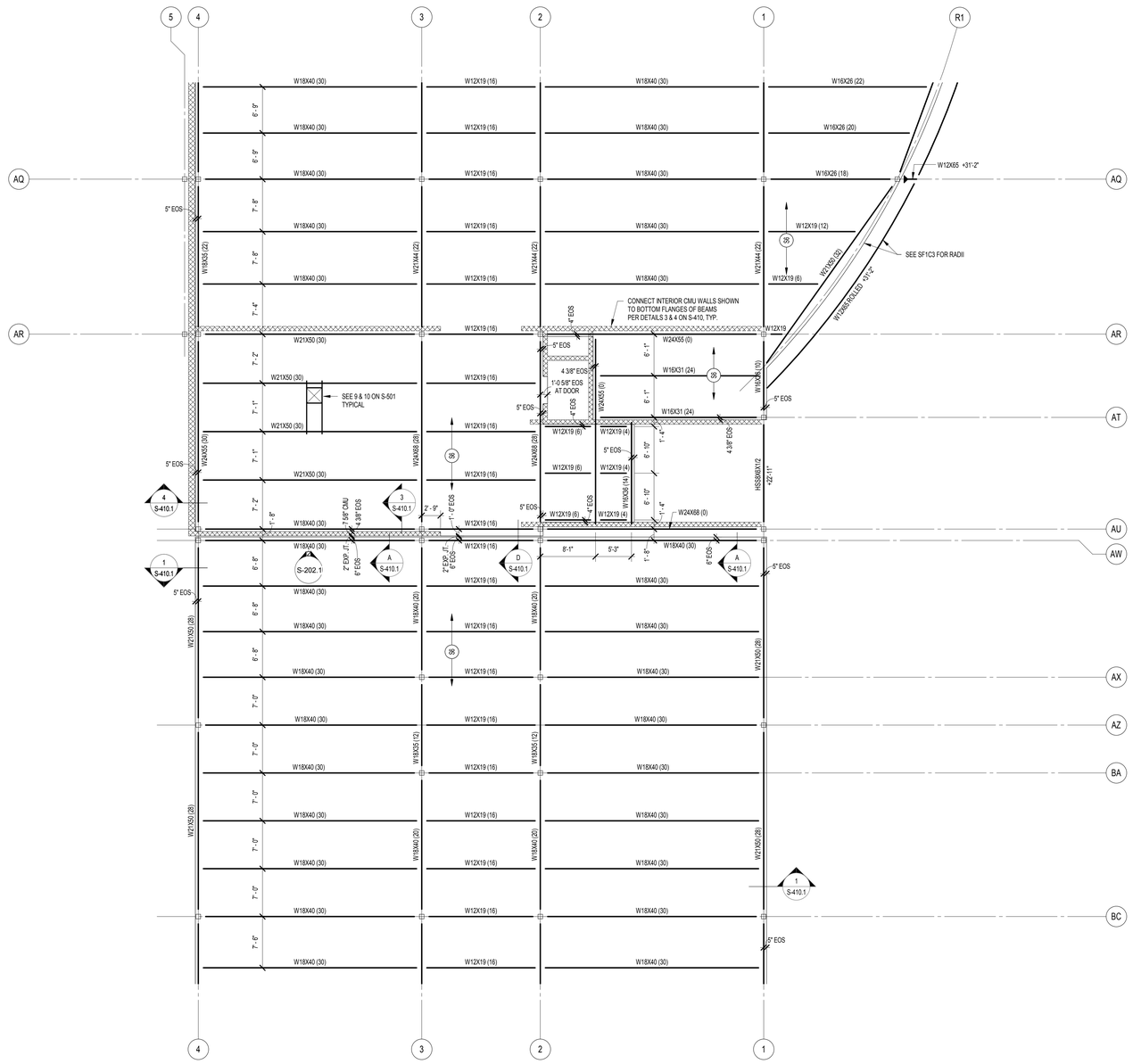
Hammond Middle High School

UNIT C THIRD FLOORING FRAMING PLAN

SF1C3.1



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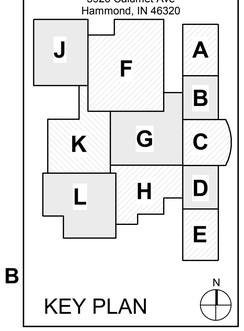

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UNIT D THIRD FLOORING FRAMING PLAN

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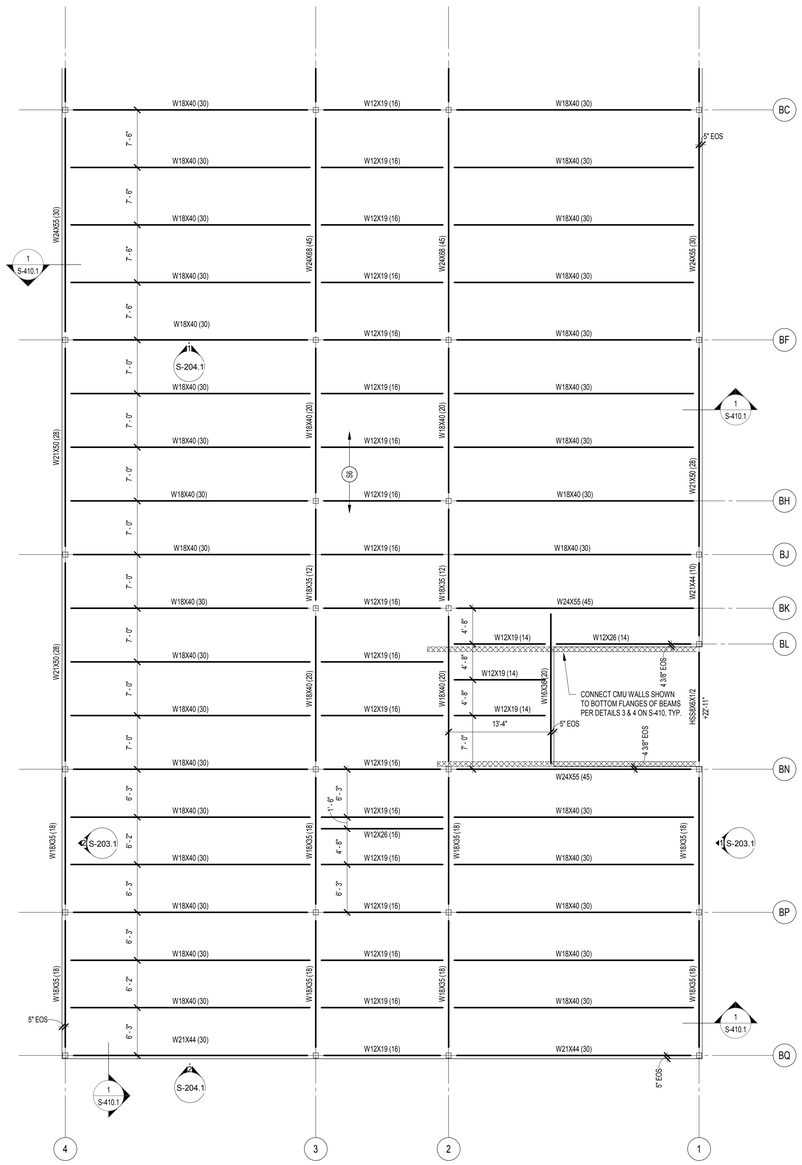

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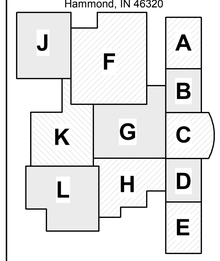


KEY PLAN

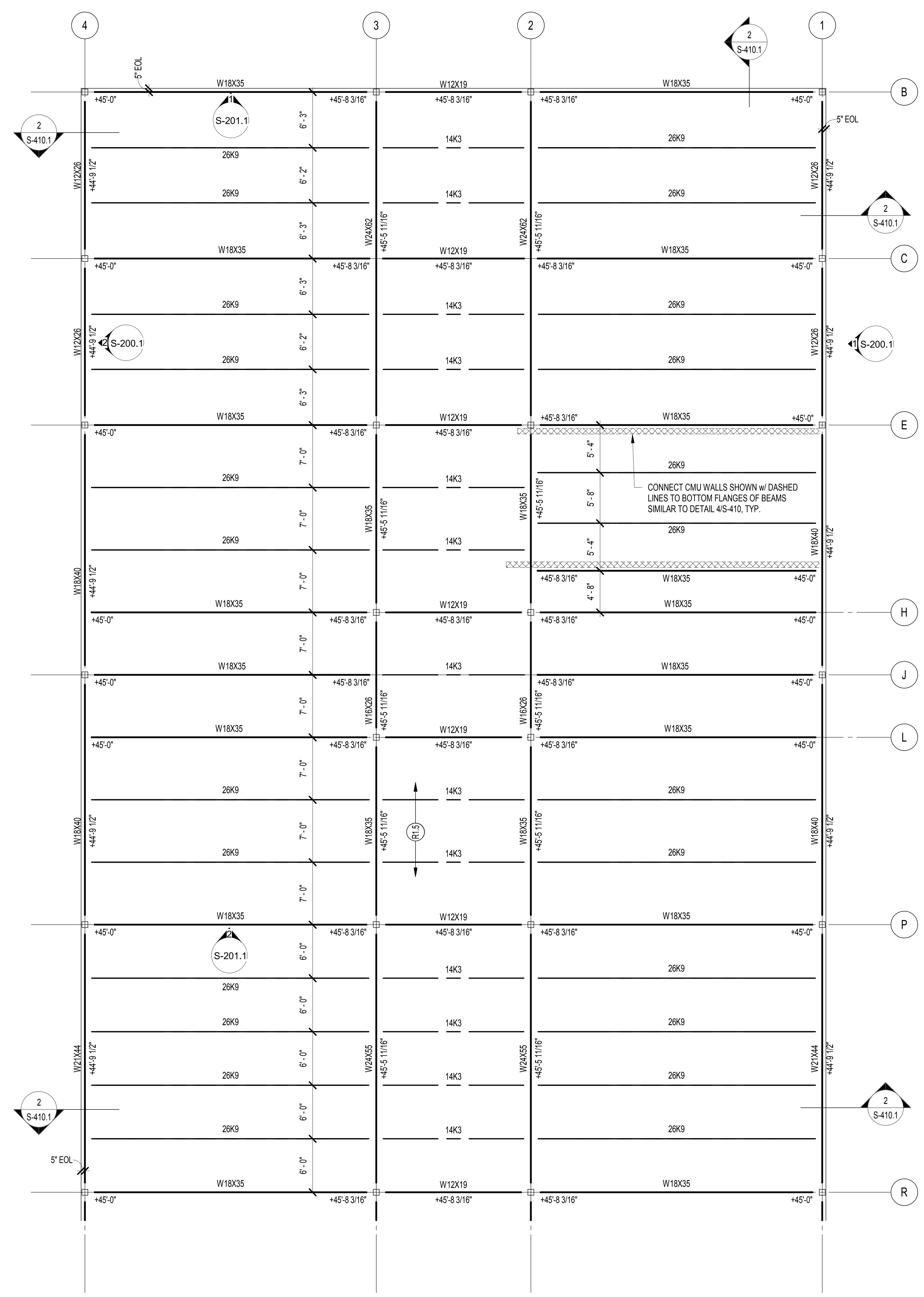
School City of Hammond

School City of Hammond

Hammond Middle High School

UNIT E THIRD FLOOR FRAMING PLAN

SF1E3.1



1 ROOF FRAMING PLAN - UNIT A
1/8" = 1'-0"

FRAMING PLAN NOTES

1. REF. S-600 FOR STRUCTURAL NOTES, DESIGN DATA & SCHEDULES.

2. SEE "GRID LAYOUT" SHEETS S-100, S-100A, S-100B, S-100C, ETC. FOR GRID DIMENSIONS & GEOMETRY.

3. ALL CONTRACTORS ARE REQUIRED TO COORDINATE THEIR WORK WITH ALL DISCIPLINES TO AVOID CONFLICTS. REFERENCE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS.

4. ALL ELEVATIONS ARE REFERENCED FROM THE FIRST FLOOR FINISHED FLOOR ELEVATION +0'-0".

5. SEE FOUNDATION PLANS FOR SIZES OF STEEL COLUMNS SUPPORTED ON FOUNDATIONS.

6. REF. S-500 & S-501 FOR TYPICAL CONNECTION & FRAMING DETAILS.

7. REF. S-502 FOR TYPICAL MASONRY DETAILS.

8. INSTALL CONTINUOUS BENT PLATE / ANGLE POUR STOPS AT ALL ELEVATED SLAB-ON-DECK PERIMETER EDGES AND AROUND ALL INTERIOR FLOOR OPENINGS (BOTH SHOWN AND NOT SHOWN). SEE DETAIL A/S-410.

9. INSTALL CONTINUOUS ANGLES AT ALL PERIMETER ROOF EDGES. SEE DETAIL B/S-410 FOR ATTACHMENT TO BEAM AND FOR ALL CONDITIONS NOT SPECIFICALLY DEFINED IN FRAMING SECTIONS.

10. INSTALL CONTINOUS CONCRETE CURBS PER DETAIL C/S-410 AROUND THE PERIMETER OF ALL MECHANICAL ROOMS AND AROUND ALL FLOOR PENETRATIONS BOTH SHOWN AND NOT SHOWN INCLUDING STEEL COLUMN PENETRATIONS. **(NOTE: CURBS IN FUTURE SCOPE OF WORK.)**

12. PLAN LEGEND:

NOTE: CONCRETE & W.W.F. IN FUTURE SCOPE OF WORK. STEEL DECK IS IN THIS SCOPE OF WORK.

S6	4 1/2" N.W. CONCRETE SLAB w/ 6X6-W2.1XW2.1 W.W.F. OVER 1 1/2", 18 GA. GALVANIZED COMPOSITE STEEL FLOOR DECK TOTAL THICKNESS = 6". SEE DETAILS 3 & 4/S-501. T/SLAB @ 2ND FLOOR = +15'-4" & T/S = +14'-10" U.N.O. T/SLAB @ 3RD FLOOR = +30'-8" & T/S = +30'-2" U.N.O.
R1.5	1 1/2", 18 GA. TYPE B WIDE-RIB STEEL ROOF DECK (PRIME PAINTED BOTH SIDES.) SEE DETAIL 5/S-501.
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G1	GALV. 19W4 BANDED STEEL GRATING w/ 1" X 3/16" BEARING BARS @ 1 3/16" O.C. & CROSS BARS AT 4" O.C.
T/S	DENOTES TOP OF STEEL ELEVATION.
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E.O.L. (or EOL)	DENOTES EDGE OF ANGLE (MEASURED FROM BEAM C.L.) SEE TYPICAL DETAIL B/S-410
C.L.	DENOTES CENTERLINE
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S.O.D. (or SOD)	DENOTES SLAB-ON-DECK
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SCHMIDT ASSOCIATES
415 Massachusetts Avenue
Indianapolis, IN 46204
www.schmidt-arch.com

Project No. 2017-105.MHS
Project Date 09.06.2018
Produced RMD

WESLEY B. HARRISON REGISTERED PE60860410 STATE OF INDIANA PROFESSIONAL ENGINEER

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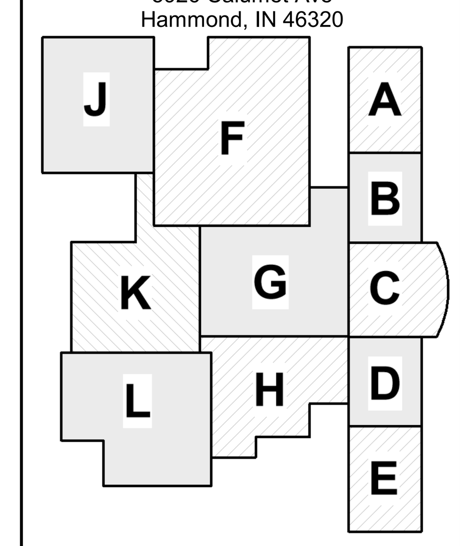

KEY PLAN

School City of Hammond

School City of Hammond

Hammond Middle High School

UNIT A ROOF FRAMING PLAN

SF1AR.1

SF1AR.1_ UNIT A ROOF FRAMING PLAN
2017-105.MHS_School City of Hammond_Hammond Middle High School_
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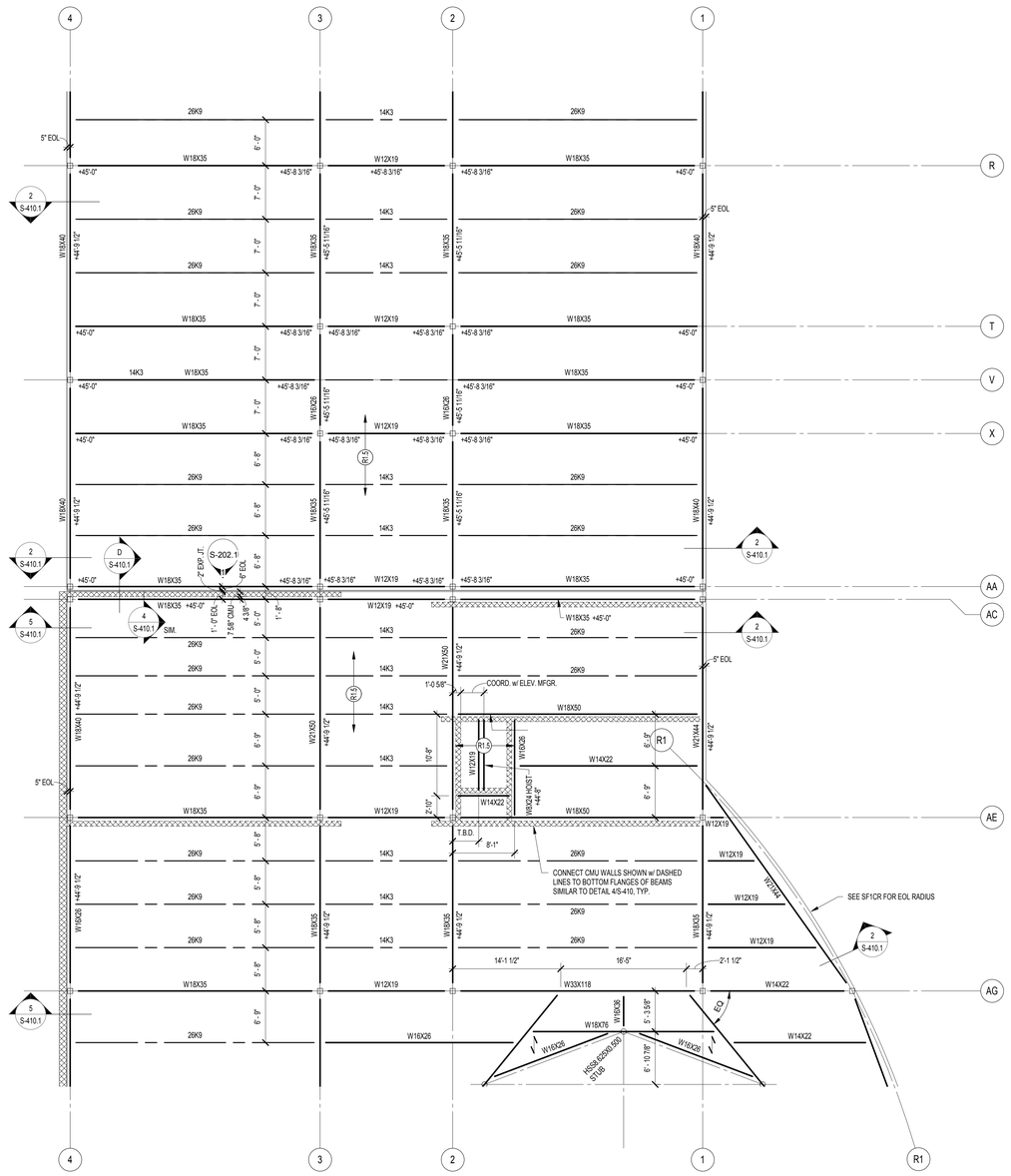

T/S +45'-0" U.N.O.
BETWEEN GRIDS AC & AU

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1/8" = 1'-0"

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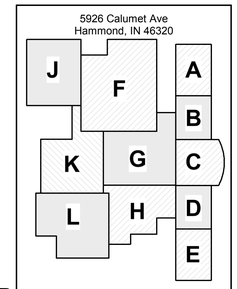


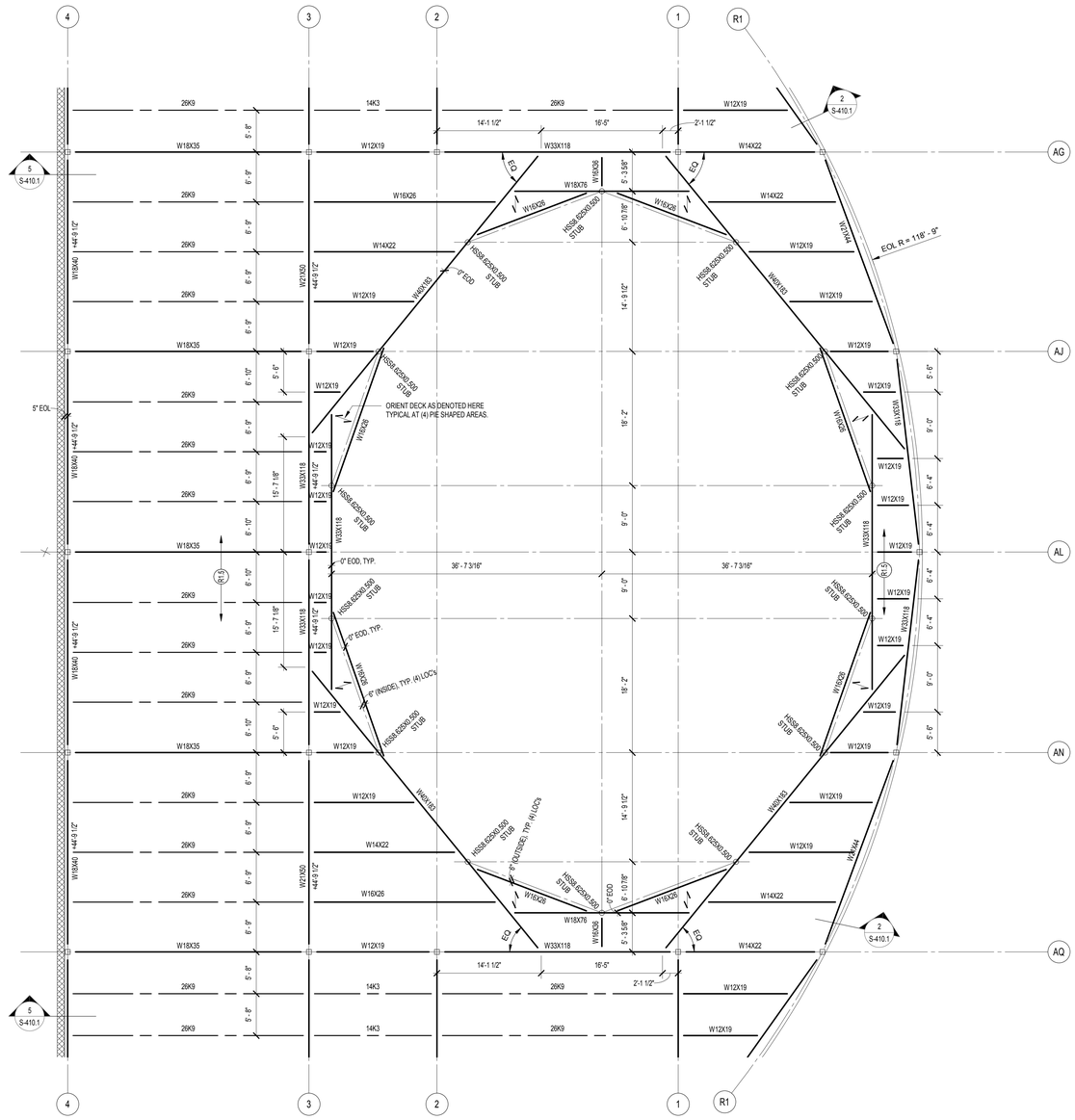
KEY PLAN

School City of Hammond

Hammond Middle High School

UNIT B ROOF FRAMING PLAN

SF1BR.1



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1/8" = 1'-0"

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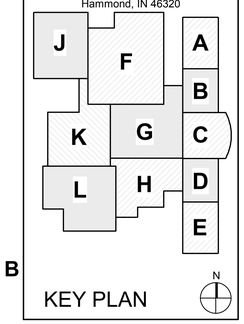

KEY PLAN

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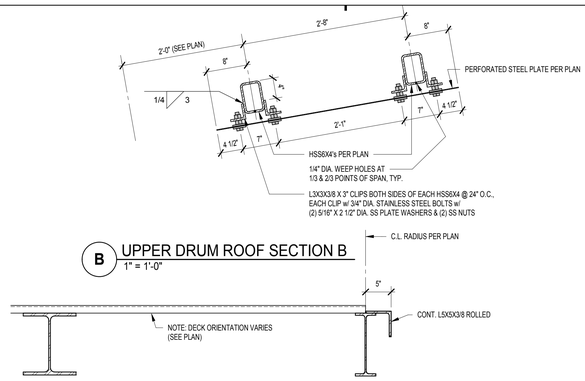
School City of Hammond

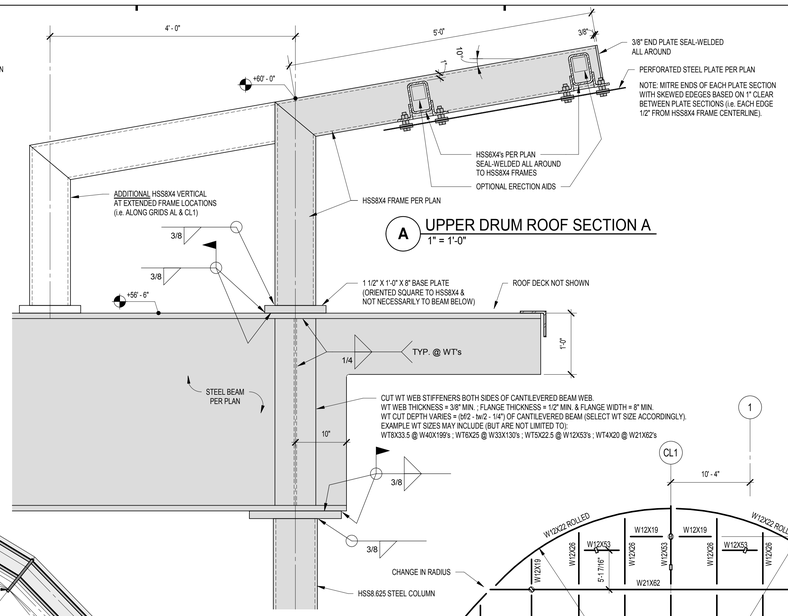
Hammond Middle High School

UNIT C ROOF FRAMING PLAN

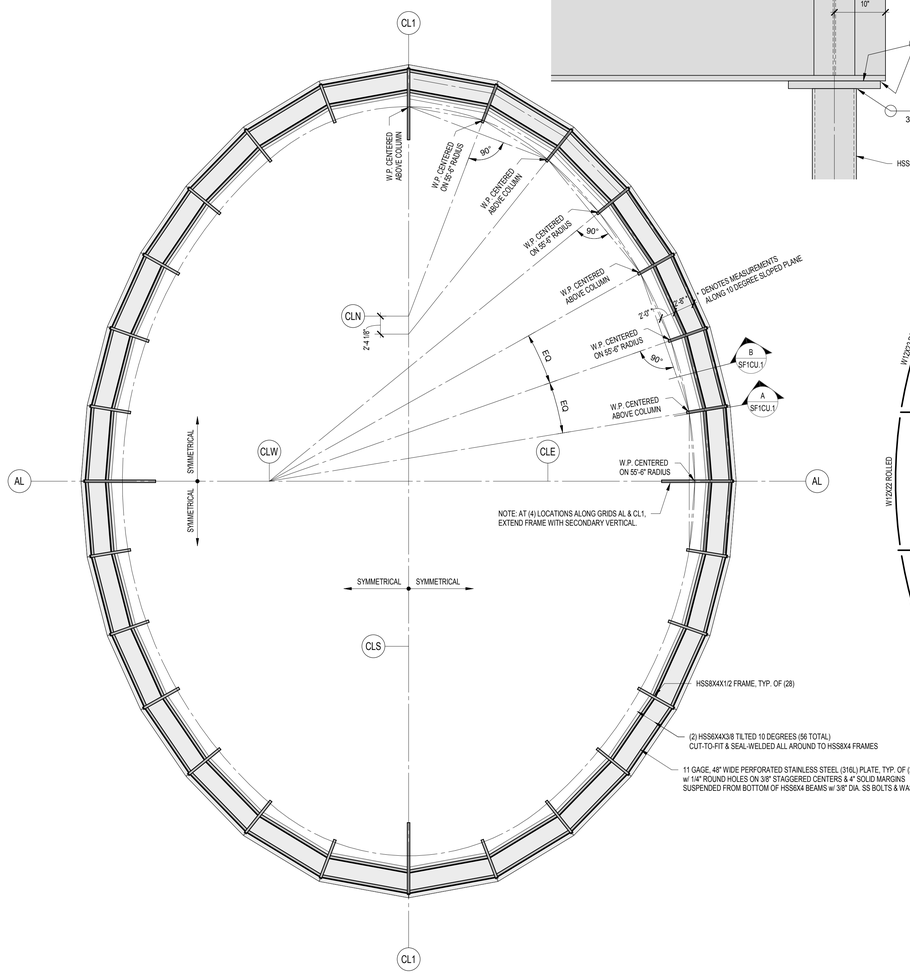
SF1CR.1



B UPPER DRUM ROOF SECTION B
1" = 1'-0"

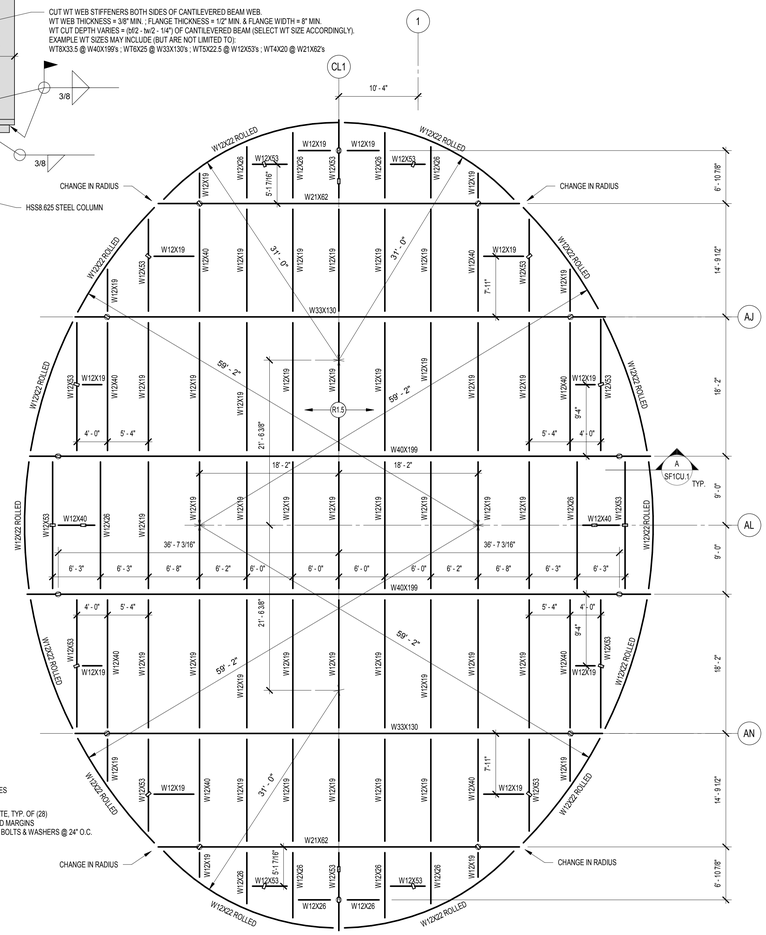


A UPPER DRUM ROOF SECTION A
1" = 1'-0"



2 UPPER DRUM ROOF FRAMING PLAN
1/8" = 1'-0"

ALL STEEL ABOVE +56'-6" (EXCEPT STAINLESS STEEL PLATE & BOLTS)
SHALL BE AESS CATEGORY 1 AND PRIME-PAINTED
w/ TNEMEC 90-97 (DFT 2.5-3.5 MILS) OVER AN SSPC-SP6 SURFACE PREP.
TOUCH-UP PRIME ALL WELDS IN FIELD.
INTERMEDIATE & TOPCOATS SHALL BE COMPATIBLE HIGH-PERFORMANCE PAINT.



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PL	DENOTES STEEL PLATE
S.O.D. (or SOD)	DENOTES SLAB-ON-DECK
S.O.G. (or SOG)	DENOTES SLAB-ON-GRADE
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	DENOTES BEAM-TO-HSS COLUMN MOMENT CONNECTION. CUT-TO-FIT & WELD ALL AROUND w/ MIN. 5/16" FILLET WELD.
W14X26 (23)	DENOTES STEEL BEAM SIZE. FOR MEMBERS INDICATED, DENOTES NUMBER OF 3/4" DIA. X 3 1/4" LONG HEADED SHEAR STUDS UNIFORMLY SPACED ALONG LENGTH OF BEAM. SEE DETAILS 1 & 2 ON S-501.
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Indianapolis, IN 46204
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Project No. 2017-105.MHS
Project Date 09.06.2018
Produced RMD

WESLEY B. HARRISON
REGISTERED
PE60860410
STATE OF Indiana
PROFESSIONAL ENGINEER

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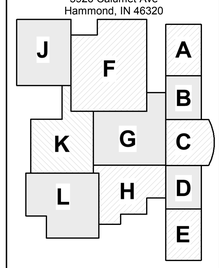


KEY PLAN

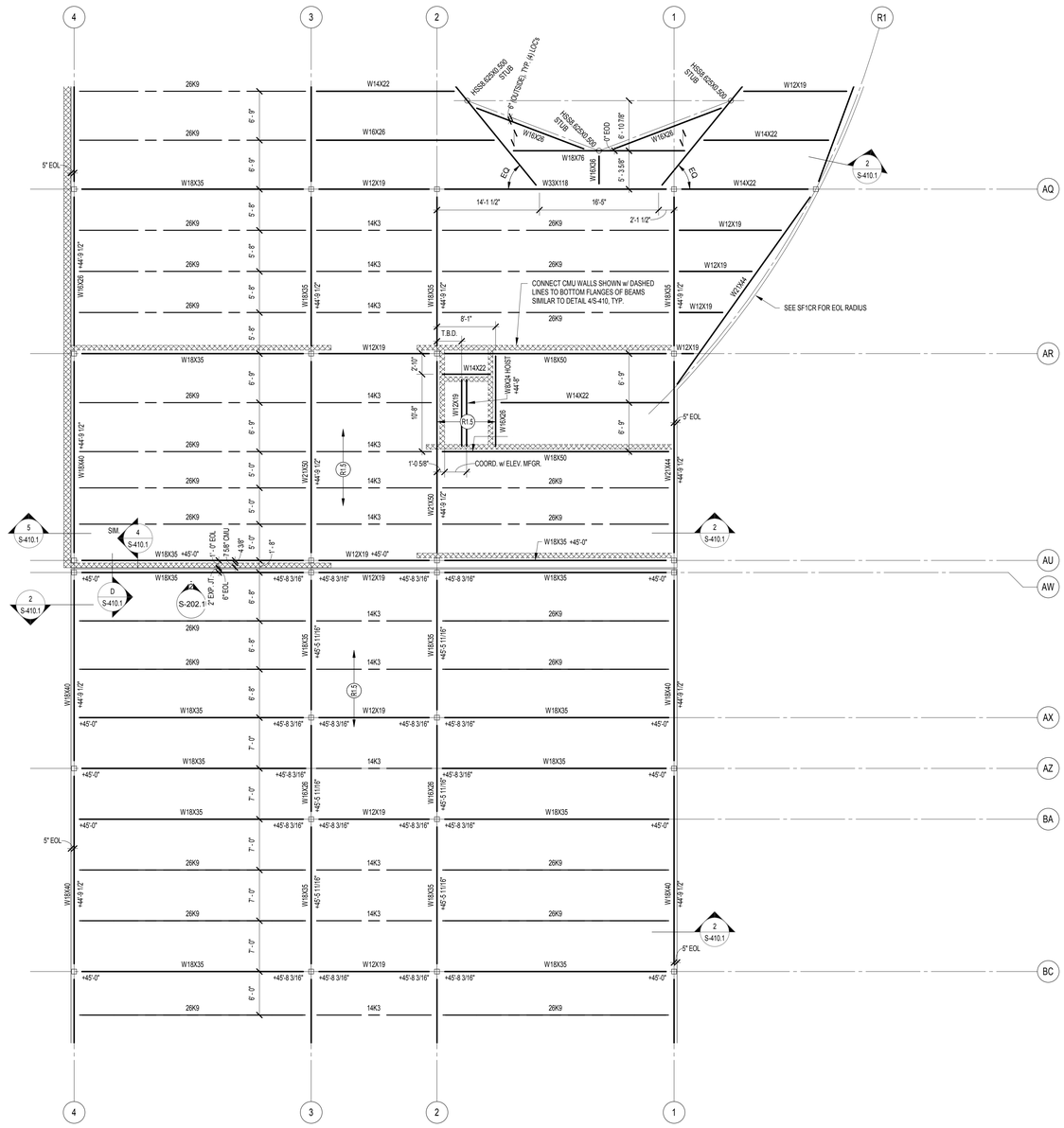
School City of Hammond

School City of Hammond

Hammond Middle High School

UNIT C UPPER ROOF FRAMING PLAN

SF1CU.1



1 ROOF FRAMING PLAN - UNIT D
1/8" = 1'-0"

FRAMING PLAN NOTES

1. REF. S-600 FOR STRUCTURAL NOTES, DESIGN DATA & SCHEDULES.

2. SEE "GRID LAYOUT" SHEETS S-100, S-100A, S-100B, S-100C, ETC. FOR GRID DIMENSIONS & GEOMETRY.

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7. REF. S-502 FOR TYPICAL MASONRY DETAILS.

8. INSTALL CONTINUOUS BENT PLATE / ANGLE POUR STOPS AT ALL ELEVATED SLAB-ON-DECK PERIMETER EDGES AND AROUND ALL INTERIOR FLOOR OPENINGS (BOTH SHOWN AND NOT SHOWN). SEE DETAIL A/S-410.

9. INSTALL CONTINUOUS ANGLES AT ALL PERIMETER ROOF EDGES. SEE DETAIL B/S-410 FOR ATTACHMENT TO BEAM AND FOR ALL CONDITIONS NOT SPECIFICALLY DEFINED IN FRAMING SECTIONS.

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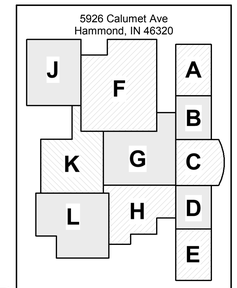


KEY PLAN

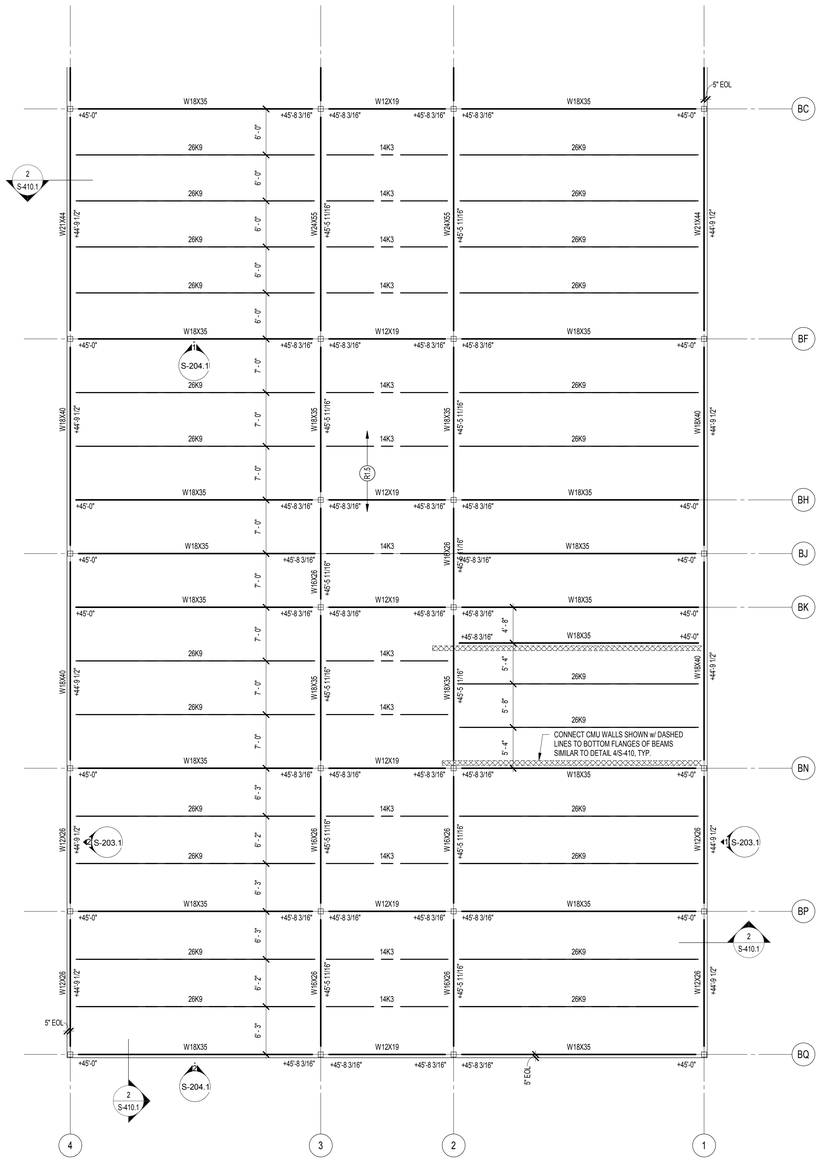
School City of Hammond

School City of Hammond

Hammond Middle High School

UNIT D ROOF FRAMING PLAN

SF1DR.1



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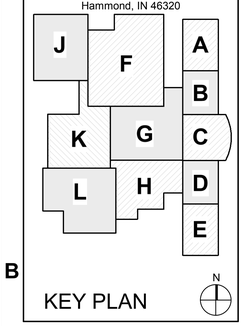


KEY PLAN

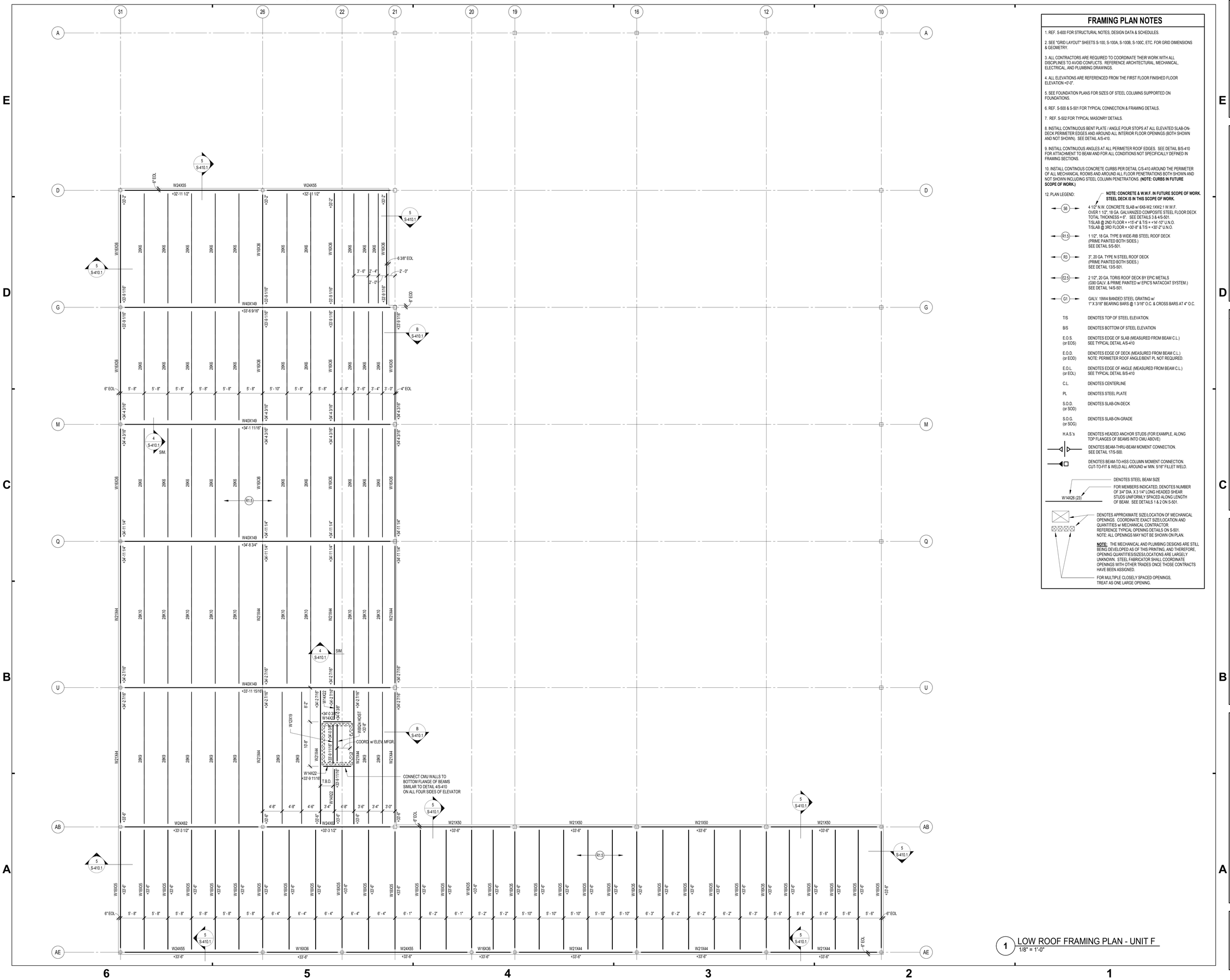
School City of Hammond

School City of Hammond

Hammond Middle High School

UNIT E ROOF FRAMING PLAN

SF1ER.1



1 LOW ROOF FRAMING PLAN - UNIT F
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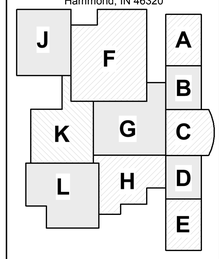

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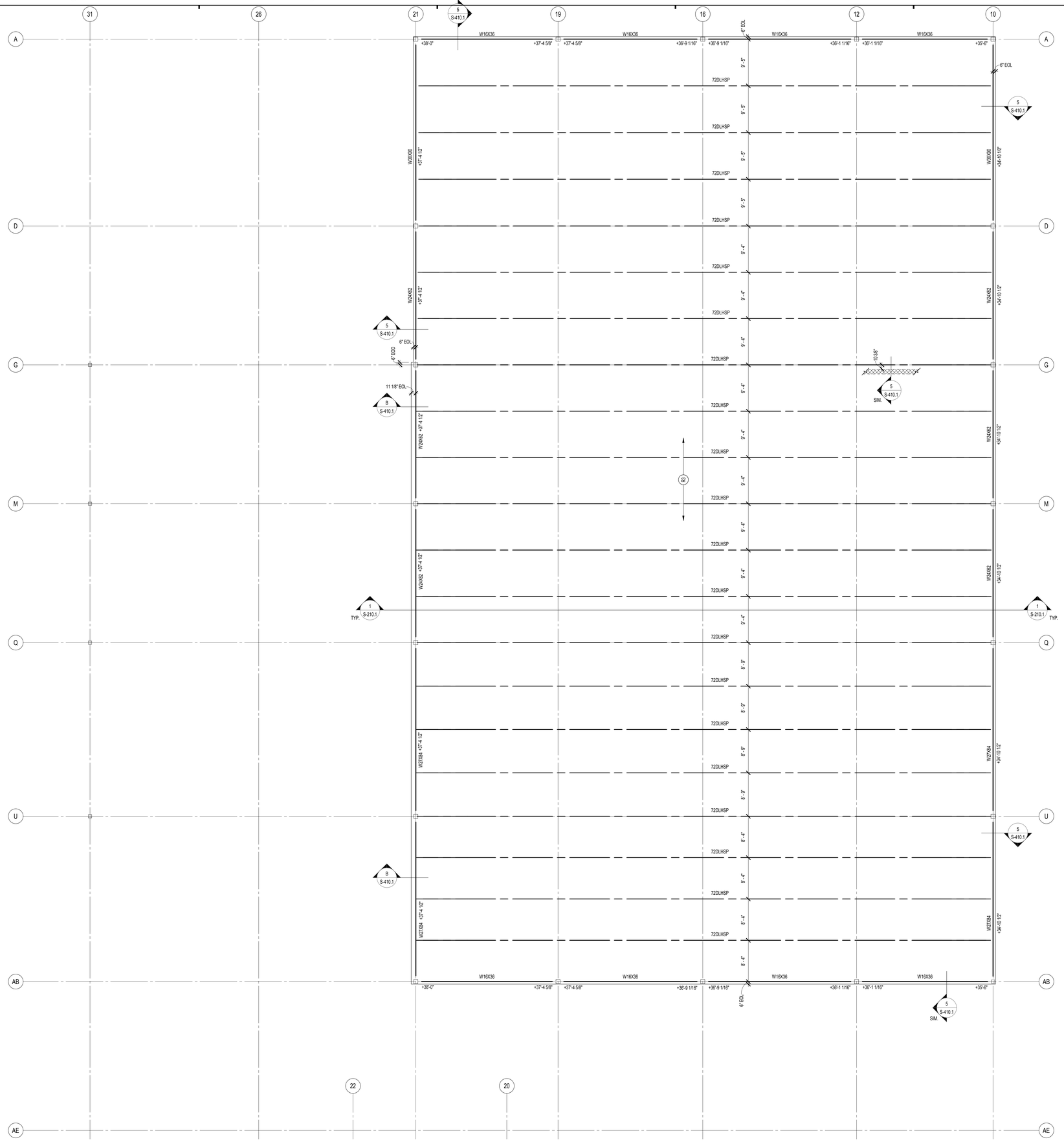
Hammond Middle High School

UNIT F LOW ROOF FRAMING PLAN

SF1FL.1



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E.O.S. (or EOS)	DENOTES EDGE OF SLAB (MEASURED FROM BEAM C.L.) SEE TYPICAL DETAIL A/S-410
E.O.D. (or EOD)	DENOTES EDGE OF DECK (MEASURED FROM BEAM C.L.) NOTE: PERIMETER ROOF ANGLE/BENT PL NOT REQUIRED.
E.O.L. (or EOL)	DENOTES EDGE OF ANGLE (MEASURED FROM BEAM C.L.) SEE TYPICAL DETAIL B/S-410
C.L.	DENOTES CENTERLINE
PL	DENOTES STEEL PLATE
S.O.D. (or SOD)	DENOTES SLAB-ON-DECK
S.O.G. (or SOG)	DENOTES SLAB-ON-GRADE
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	DENOTES BEAM-THRU-BEAM MOMENT CONNECTION. SEE DETAIL 17/S-600.
	DENOTES BEAM-TO-HSS COLUMN MOMENT CONNECTION. CUT-TO-FIT & WELD ALL AROUND w/ MIN. 5/16" FILLET WELD.

W14X26 (23)

DENOTES STEEL BEAM SIZE

FOR MEMBERS INDICATED, DENOTES NUMBER OF 3/4" DIA. X 3 1/4" LONG HEADED SHEAR STUDS UNIFORMILY SPACED ALONG LENGTH OF BEAM. SEE DETAILS 1 & 2 ON S-501.

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FOR MULTIPLE CLOSELY SPACED OPENINGS, TREAT AS ONE LARGE OPENING.

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Project No. 2017-105.MHS
Project Date 09.06.2018
Produced RMD

WESLEY B. HAMILTON
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PE60860410
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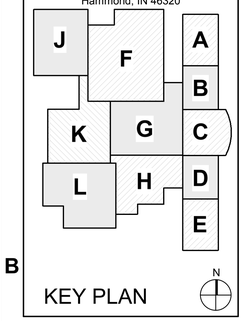


KEY PLAN

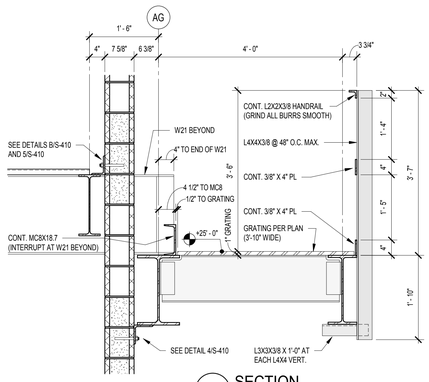
School City of Hammond

School City of Hammond

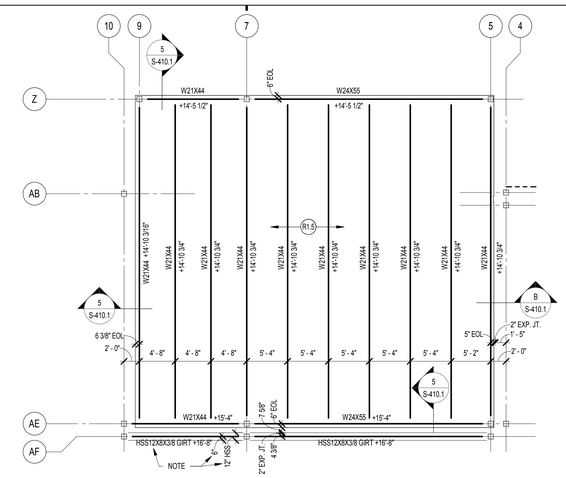
Hammond Middle High School

UNIT F ROOF FRAMING PLAN

SF1FR.1



3 SECTION
3/4" = 1'-0"



2 LOW ROOF FRAMING PLAN - UNIT G
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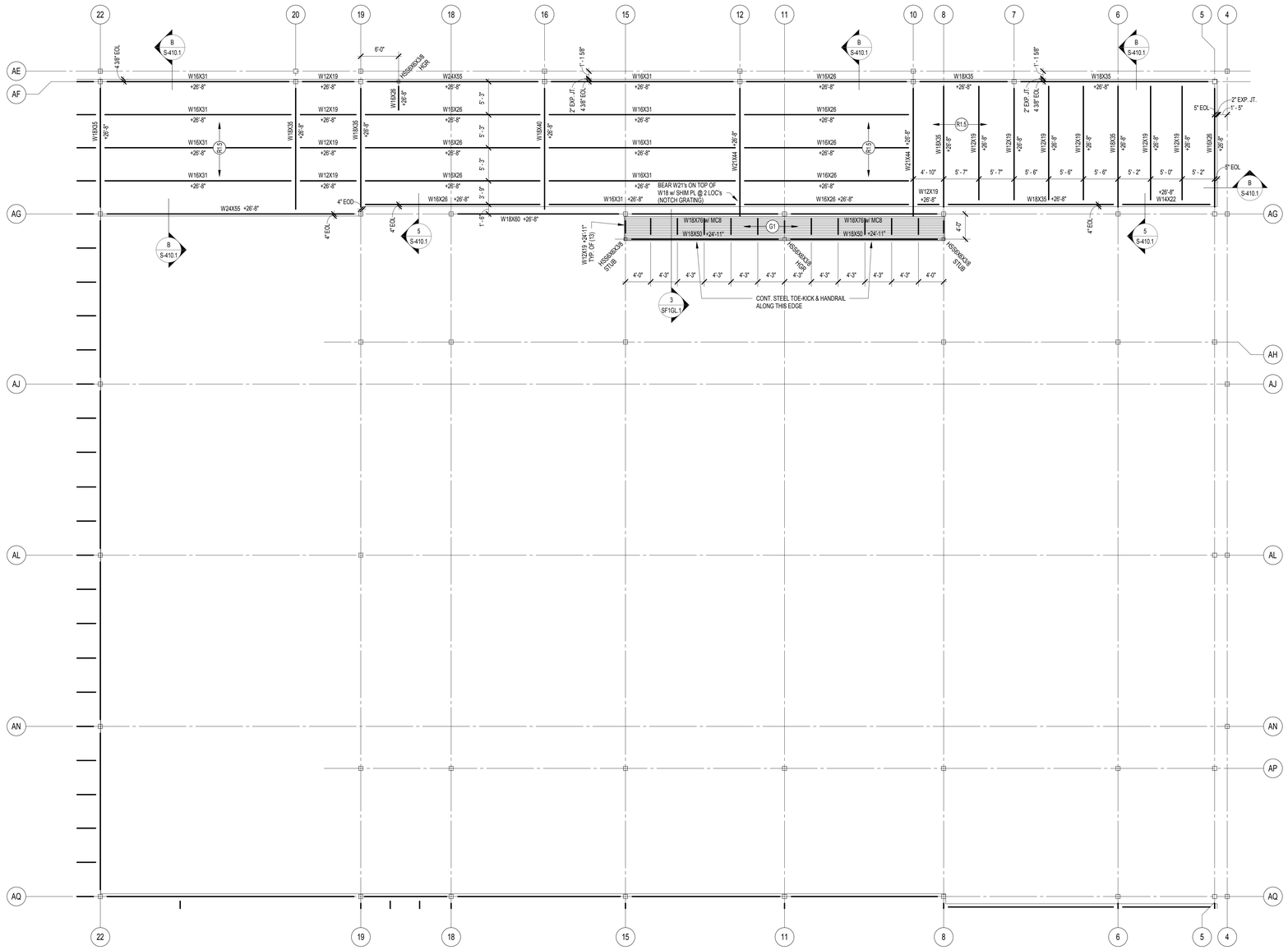

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NOTE: CONCRETE & W.W.F. IN FUTURE SCOPE OF WORK. STEEL DECK IS IN THIS SCOPE OF WORK.

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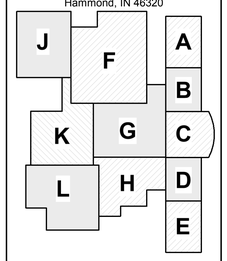

KEY PLAN

School City of Hammond

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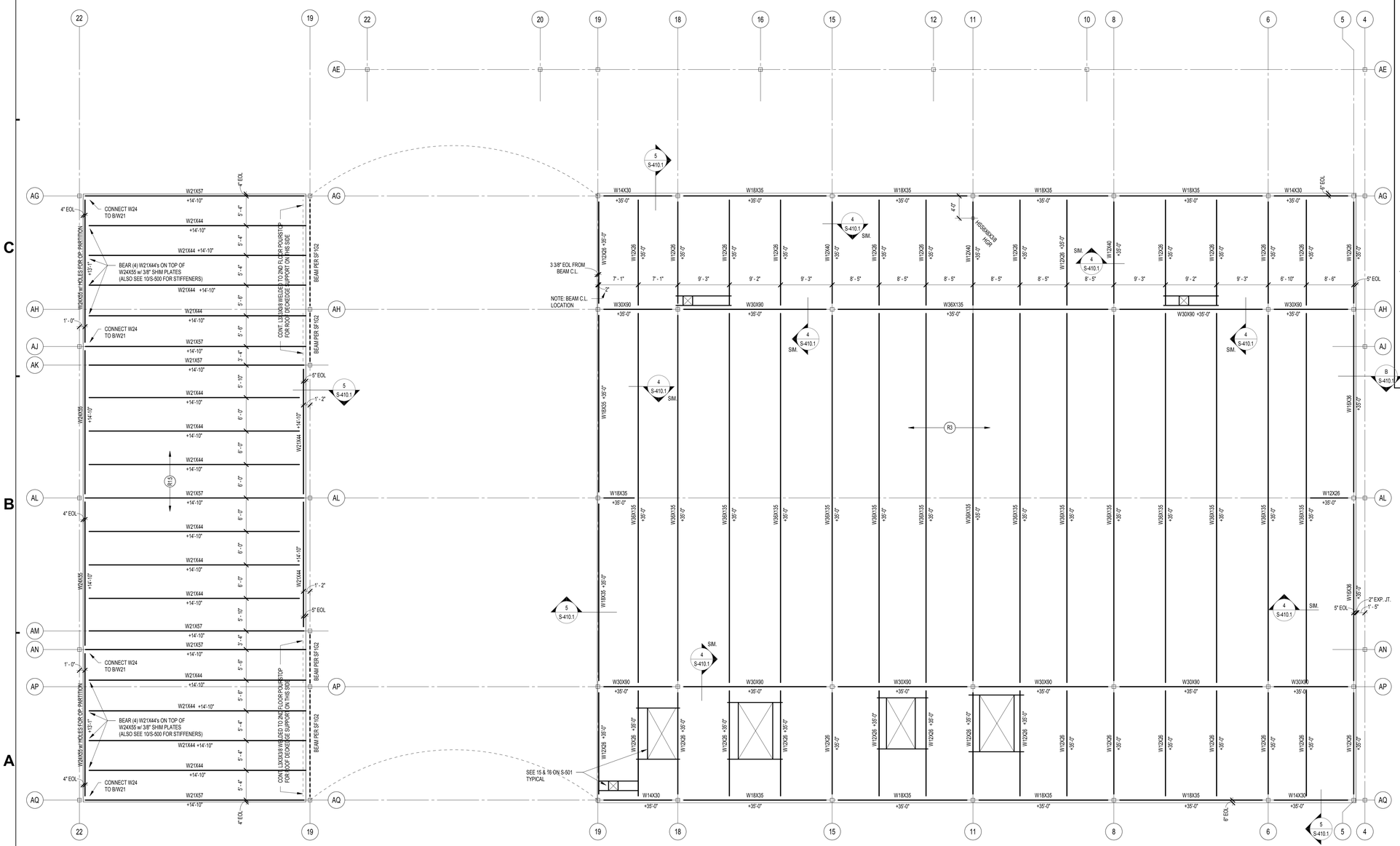
Hammond Middle High School

UNIT G LOW ROOF FRAMING PLAN

SF1GL.1



2 LOW ROOF FRAMING PLAN - UNIT G
1/8" = 1'-0"

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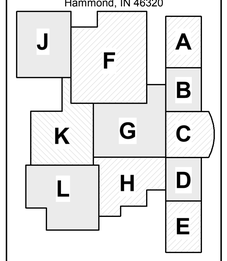


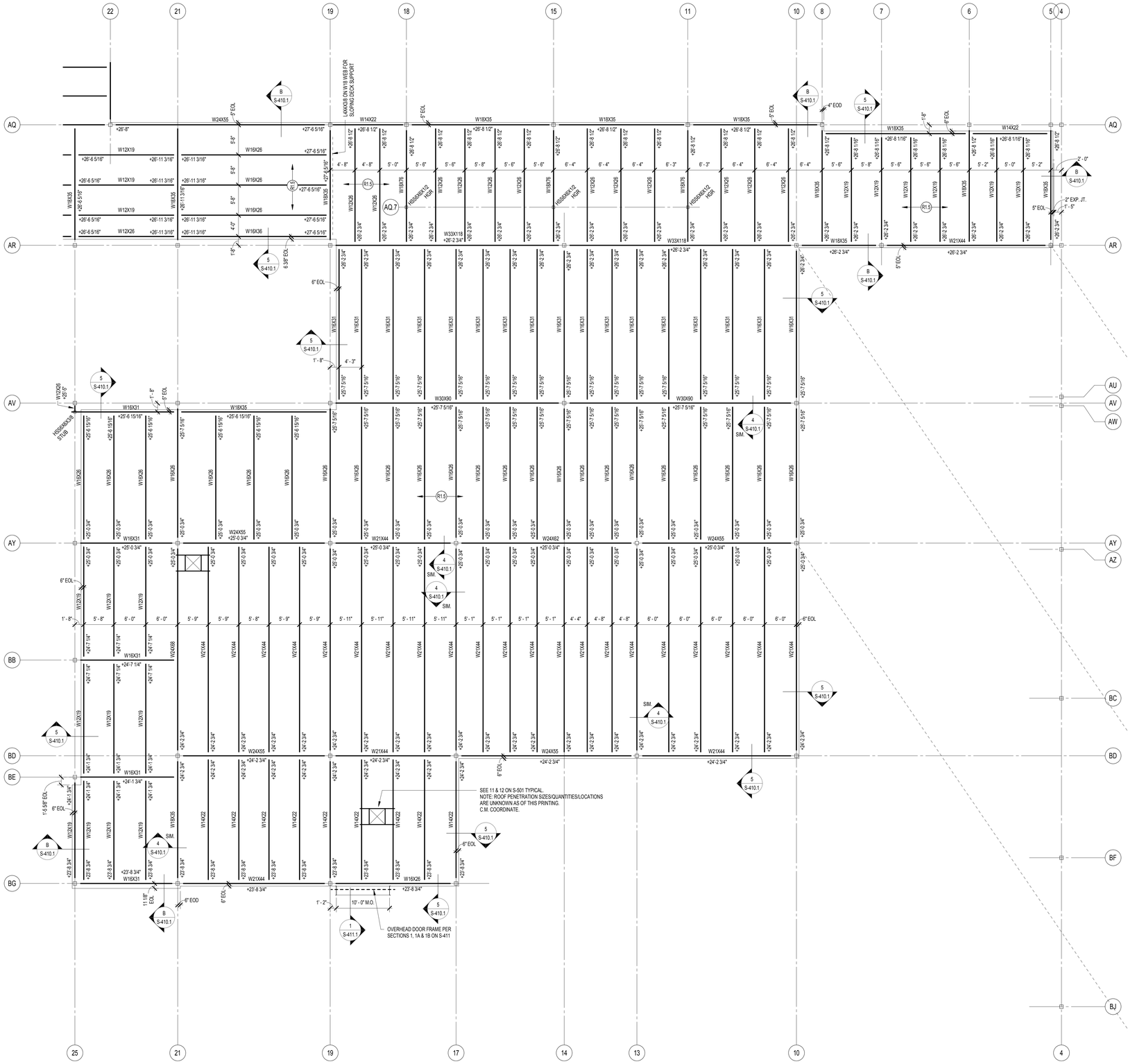
KEY PLAN

School City of Hammond

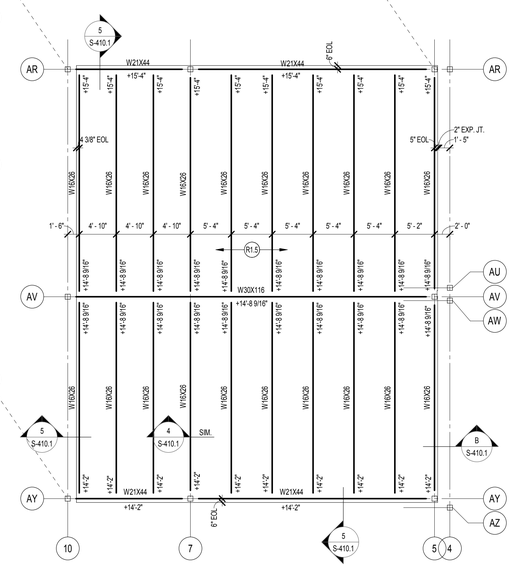
Hammond Middle High School

UNIT G ROOF FRAMING PLAN

SF1GR.1



1 ROOF FRAMING PLAN - UNIT H
1/8" = 1'-0"



2 LOW ROOF FRAMING PLAN - UNIT H
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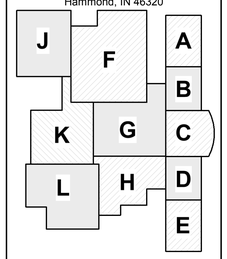

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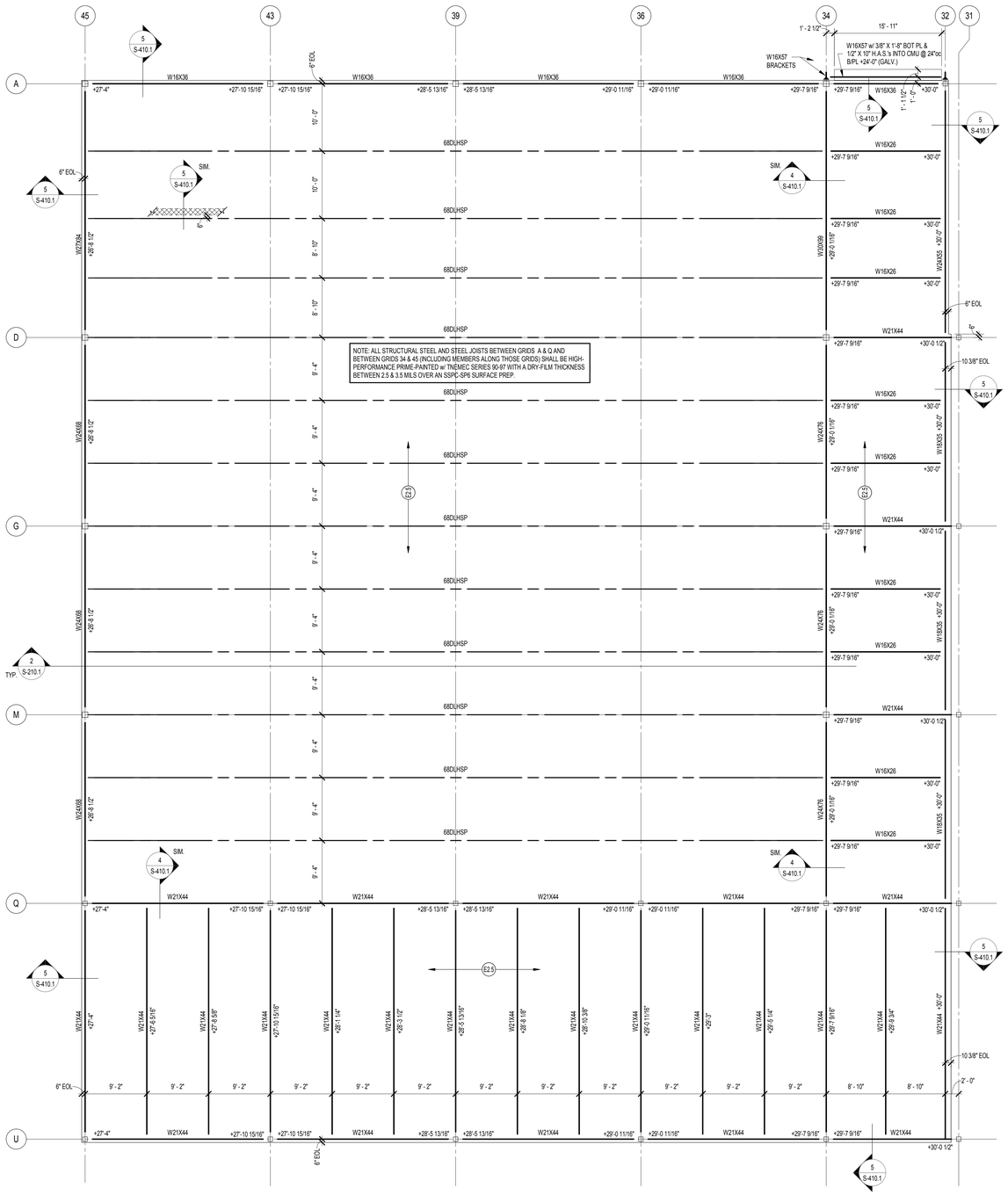
Hammond Middle High School

UNIT H ROOF FRAMING PLAN

SF1HR.1



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9. INSTALL CONTINUOUS ANGLES AT ALL PERIMETER ROOF EDGES. SEE DETAIL B/S-410 FOR ATTACHMENT TO BEAM AND FOR ALL CONDITIONS NOT SPECIFICALLY DEFINED IN FRAMING SECTIONS.

10. INSTALL CONTINOUS CONCRETE CURBS PER DETAIL C/S-410 AROUND THE PERIMETER OF ALL MECHANICAL ROOMS AND AROUND ALL FLOOR PENETRATIONS BOTH SHOWN AND NOT SHOWN INCLUDING STEEL COLUMN PENETRATIONS. **(NOTE: CURBS IN FUTURE SCOPE OF WORK.)**

12. PLAN LEGEND:

NOTE: CONCRETE & W.W.F. IN FUTURE SCOPE OF WORK. STEEL DECK IS IN THIS SCOPE OF WORK.

- S6 — 4 1/2" N.W. CONCRETE SLAB w/ 6X6-W2.1XW2.1 W.W.F. OVER 1 1/2", 18 GA. GALVANIZED COMPOSITE STEEL FLOOR DECK TOTAL THICKNESS = 6". SEE DETAILS 3 & 4/S-501. T/SLAB @ 2ND FLOOR = +15'-4" & T/S = +14'-10" U.N.O. T/SLAB @ 3RD FLOOR = +30'-8" & T/S = +30'-2" U.N.O.
- R1.5 — 1 1/2", 18 GA. TYPE B WIDE-RIB STEEL ROOF DECK (PRIME PAINTED BOTH SIDES.) SEE DETAIL 5/S-501.
- R3 — 3", 20 GA. TYPE N STEEL ROOF DECK (PRIME PAINTED BOTH SIDES.) SEE DETAIL 13/S-501.
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- G1 — GALV. 19W4 BANDED STEEL GRATING w/ 1" X 3/16" BEARING BARS @ 1 3/16" O.C. & CROSS BARS AT 4" O.C.

T/S	DENOTES TOP OF STEEL ELEVATION.
B/S	DENOTES BOTTOM OF STEEL ELEVATION
E.O.S. (or EOS)	DENOTES EDGE OF SLAB (MEASURED FROM BEAM C.L.) SEE TYPICAL DETAIL A/S-410
E.O.D. (or EOD)	DENOTES EDGE OF DECK (MEASURED FROM BEAM C.L.) NOTE: PERIMETER ROOF ANGLE/BENT PL NOT REQUIRED.
E.O.L. (or EOL)	DENOTES EDGE OF ANGLE (MEASURED FROM BEAM C.L.) SEE TYPICAL DETAIL B/S-410
C.L.	DENOTES CENTERLINE
PL	DENOTES STEEL PLATE
S.O.D. (or SOD)	DENOTES SLAB-ON-DECK
S.O.G. (or SOG)	DENOTES SLAB-ON-GRADE
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DENOTES BEAM-THRU-BEAM MOMENT CONNECTION. SEE DETAIL 17/S-500.

DENOTES BEAM-TO-HSS COLUMN MOMENT CONNECTION. CUT-TO-FIT & WELD ALL AROUND w/ MIN. 5/16" FILLET WELD.

W14X26 (23)
DENOTES STEEL BEAM SIZE
FOR MEMBERS INDICATED, DENOTES NUMBER OF 3/4" DIA. X 3 1/4" LONG HEADED SHEAR STUDS UNIFORMLY SPACED ALONG LENGTH OF BEAM. SEE DETAILS 1 & 2 ON S-501.

DENOTES APPROXIMATE SIZE/LOCATION OF MECHANICAL OPENINGS. COORDINATE EXACT SIZE/LOCATION AND QUANTITIES w/ MECHANICAL CONTRACTOR. REFERENCE TYPICAL OPENING DETAILS ON S-501. NOTE: ALL OPENINGS MAY NOT BE SHOWN ON PLAN.

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FOR MULTIPLE CLOSELY SPACED OPENINGS, TREAT AS ONE LARGE OPENING.

SCHMIDT ASSOCIATES
415 Massachusetts Avenue
Indianapolis, IN 46204
www.schmidt-arch.com

Project No. 2017-105.MHS
Project Date 09.06.2018
Produced RMD

WESLEY B. HAMILTON
REGISTERED
PE60860410
STATE OF
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PROFESSIONAL ENGINEER

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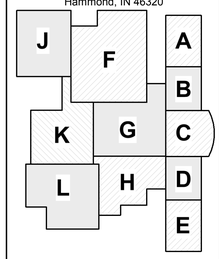


KEY PLAN

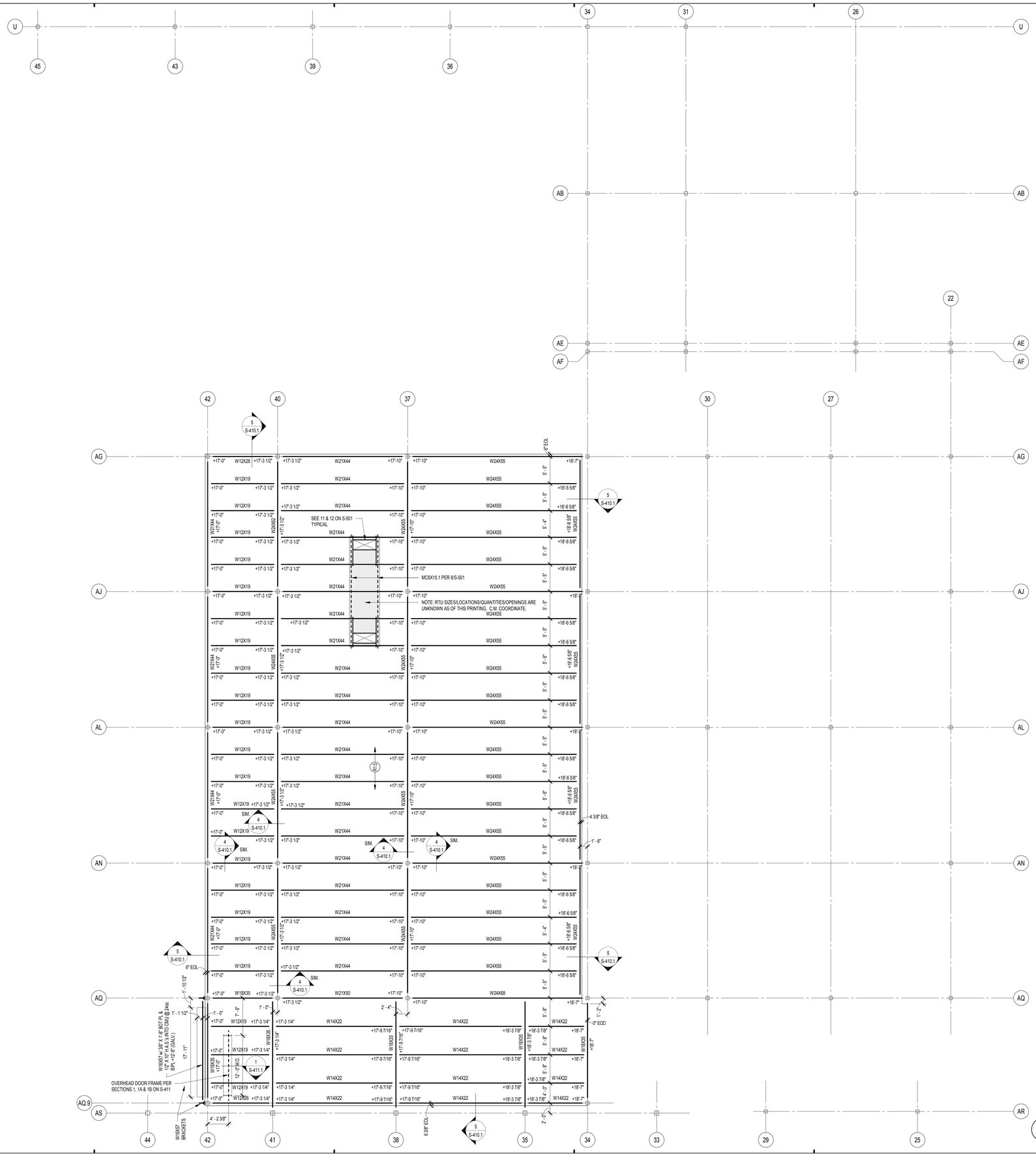
School City of Hammond

School City of Hammond

Hammond Middle High School

UNIT J ROOF FRAMING PLAN

SF1JR.1



1 KITCHEN ROOF FRAMING PLAN - UNIT K
1/8" = 1'-0"

FRAMING PLAN NOTES

1. REF. S-600 FOR STRUCTURAL NOTES, DESIGN DATA & SCHEDULES.

2. SEE "GRID LAYOUT" SHEETS S-100, S-100A, S-100B, S-100C, ETC. FOR GRID DIMENSIONS & GEOMETRY.

3. ALL CONTRACTORS ARE REQUIRED TO COORDINATE THEIR WORK WITH ALL DISCIPLINES TO AVOID CONFLICTS. REFERENCE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS.

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5. SEE FOUNDATION PLANS FOR SIZES OF STEEL COLUMNS SUPPORTED ON FOUNDATIONS.

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T/S	DENOTES TOP OF STEEL ELEVATION.
B/S	DENOTES BOTTOM OF STEEL ELEVATION
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C.L.	DENOTES CENTERLINE
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Project No. 2017-105.MHS
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WESLEY B. HARRISON — REGISTERED — PE60860410 — STATE OF Indiana — PROFESSIONAL ENGINEER

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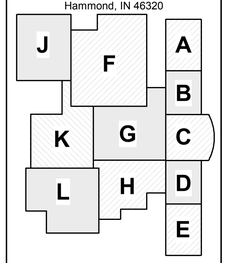


KEY PLAN

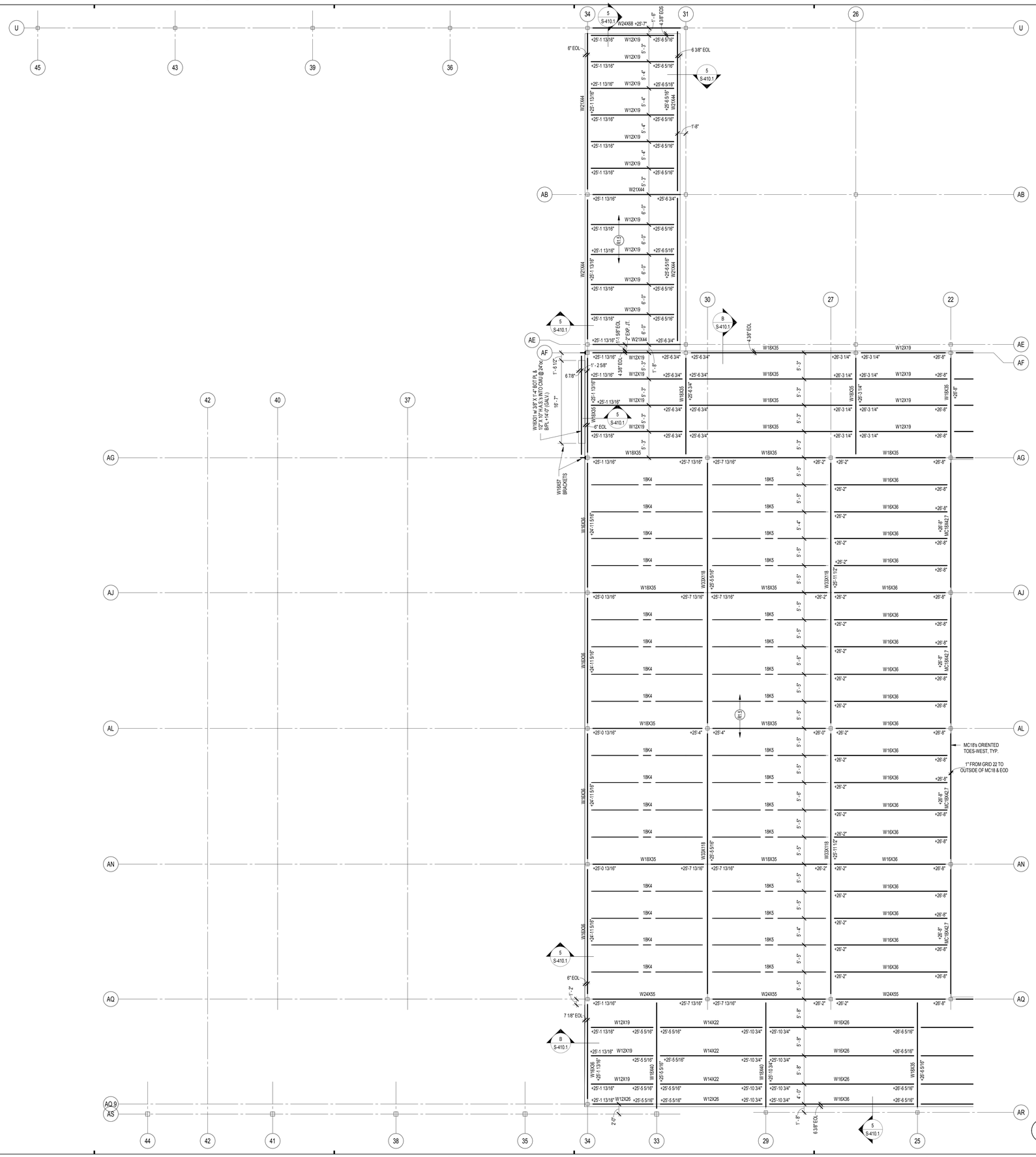
School City of Hammond

School City of Hammond

Hammond Middle High School

UNIT K LOW ROOF FRAMING PLAN

SF1KL.1



1 ROOF FRAMING PLAN - UNIT K
1/8" = 1'-0"

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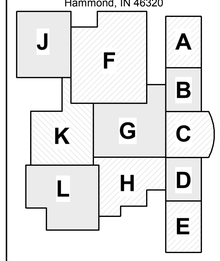

KEY PLAN

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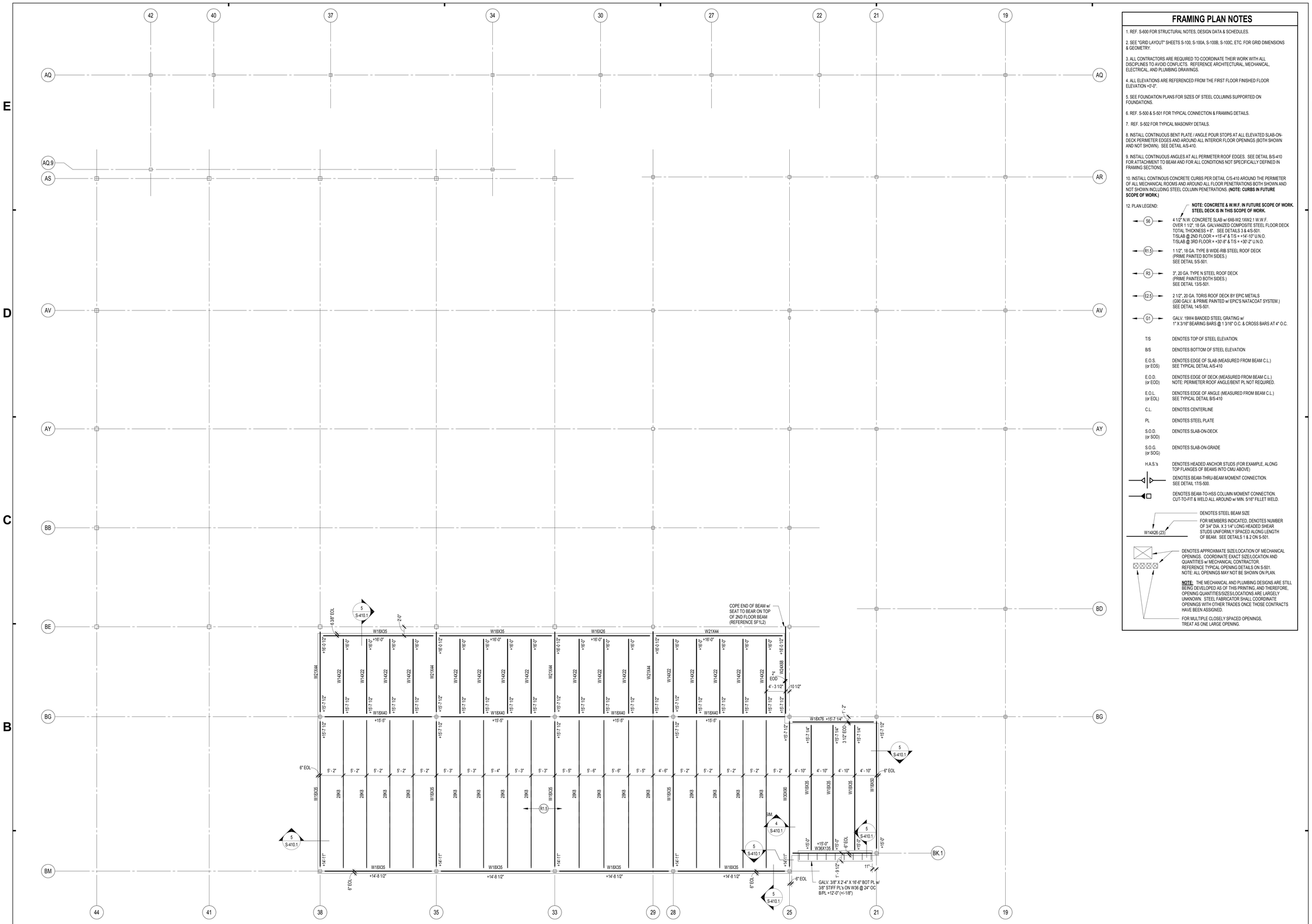
School City of Hammond

Hammond Middle High School

UNIT K ROOF FRAMING PLAN

SF1KR.1



1 LOW ROOF FRAMING PLAN - UNIT L
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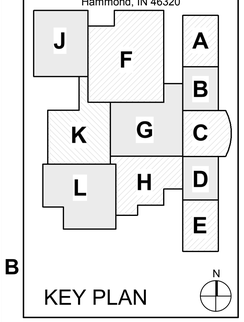

KEY PLAN

School City of Hammond

School City of Hammond

Hammond Middle High School

UNIT L LOW ROOF FRAMING PLAN

SF1LL.1

SF1L1_UNIT L LOW ROOF FRAMING PLAN
2017-105.MHS_Hammond Middle School
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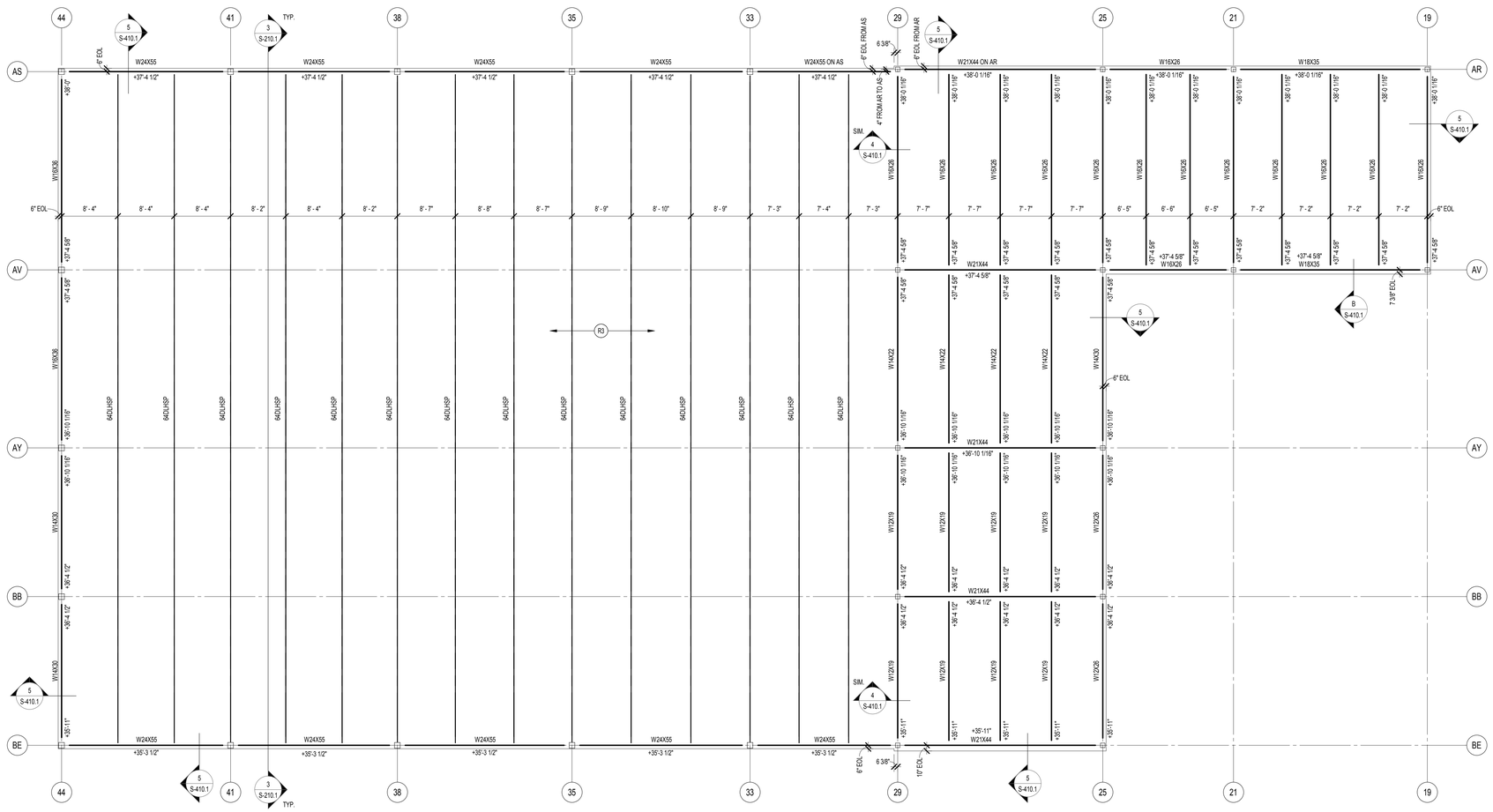

1 ROOF FRAMING PLAN - UNIT L
1/8" = 1'-0"

FRAMING PLAN NOTES

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2. SEE "GRID LAYOUT" SHEETS S-100, S-100A, S-100B, S-100C, ETC. FOR GRID DIMENSIONS & GEOMETRY.

3. ALL CONTRACTORS ARE REQUIRED TO COORDINATE THEIR WORK WITH ALL DISCIPLINES TO AVOID CONFLICTS. REFERENCE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS.

4. ALL ELEVATIONS ARE REFERENCED FROM THE FIRST FLOOR FINISHED FLOOR ELEVATION +0'-0".

5. SEE FOUNDATION PLANS FOR SIZES OF STEEL COLUMNS SUPPORTED ON FOUNDATIONS.

6. REF. S-500 & S-501 FOR TYPICAL CONNECTION & FRAMING DETAILS.

7. REF. S-502 FOR TYPICAL MASONRY DETAILS.

8. INSTALL CONTINUOUS BENT PLATE / ANGLE POUR STOPS AT ALL ELEVATED SLAB-ON-DECK PERIMETER EDGES AND AROUND ALL INTERIOR FLOOR OPENINGS (BOTH SHOWN AND NOT SHOWN). SEE DETAIL A/S-410.

9. INSTALL CONTINUOUS ANGLES AT ALL PERIMETER ROOF EDGES. SEE DETAIL B/S-410 FOR ATTACHMENT TO BEAM AND FOR ALL CONDITIONS NOT SPECIFICALLY DEFINED IN FRAMING SECTIONS.

10. INSTALL CONTINOUS CONCRETE CURBS PER DETAIL C/S-410 AROUND THE PERIMETER OF ALL MECHANICAL ROOMS AND AROUND ALL FLOOR PENETRATIONS BOTH SHOWN AND NOT SHOWN INCLUDING STEEL COLUMN PENETRATIONS. **(NOTE: CURBS IN FUTURE SCOPE OF WORK.)**

12. PLAN LEGEND:

NOTE: CONCRETE & W.W.F. IN FUTURE SCOPE OF WORK. STEEL DECK IS IN THIS SCOPE OF WORK.

S6	4 1/2" N.W. CONCRETE SLAB w/ 6X6-W2.1XW2.1 W.W.F. OVER 1 1/2", 18 GA. GALVANIZED COMPOSITE STEEL FLOOR DECK TOTAL THICKNESS = 6". SEE DETAILS 3 & 4/S-501. T/SLAB @ 2ND FLOOR = +15'-4" & T/S = +14'-10" U.N.O. T/SLAB @ 3RD FLOOR = +30'-8" & T/S = +30'-2" U.N.O.
R1.5	1 1/2", 18 GA. TYPE B WIDE-RIB STEEL ROOF DECK (PRIME PAINTED BOTH SIDES.) SEE DETAIL 5/S-501.
R3	3", 20 GA. TYPE N STEEL ROOF DECK (PRIME PAINTED BOTH SIDES.) SEE DETAIL 13/S-501.
E2.5	2 1/2", 20 GA. TORIS ROOF DECK BY EPIC METALS (G90 GALV. & PRIME PAINTED w/ EPIC'S NATACOAT SYSTEM.) SEE DETAIL 14/S-501.
G1	GALV. 19W4 BANDED STEEL GRATING w/ 1" X 3/16" BEARING BARS @ 1 3/16" O.C. & CROSS BARS AT 4" O.C.
T/S	DENOTES TOP OF STEEL ELEVATION.
B/S	DENOTES BOTTOM OF STEEL ELEVATION
E.O.S. (or EOS)	DENOTES EDGE OF SLAB (MEASURED FROM BEAM C.L.) SEE TYPICAL DETAIL A/S-410
E.O.D. (or EOD)	DENOTES EDGE OF DECK (MEASURED FROM BEAM C.L.) NOTE: PERIMETER ROOF ANGLE/BENT PL NOT REQUIRED.
E.O.L. (or EOL)	DENOTES EDGE OF ANGLE (MEASURED FROM BEAM C.L.) SEE TYPICAL DETAIL B/S-410
C.L.	DENOTES CENTERLINE
PL	DENOTES STEEL PLATE
S.O.D. (or SOD)	DENOTES SLAB-ON-DECK
S.O.G. (or SOG)	DENOTES SLAB-ON-GRADE
H.A.S.'s	DENOTES HEADED ANCHOR STUDS (FOR EXAMPLE, ALONG TOP FLANGES OF BEAMS INTO CMU ABOVE)
	DENOTES BEAM-THRU-BEAM MOMENT CONNECTION. SEE DETAIL 17/S-500.
	DENOTES BEAM-TO-HSS COLUMN MOMENT CONNECTION. CUT-TO-FIT & WELD ALL AROUND w/ MIN. 5/16" FILLET WELD.
W14X26 (23)	DENOTES STEEL BEAM SIZE FOR MEMBERS INDICATED, DENOTES NUMBER OF 3/4" DIA. X 3 1/4" LONG HEADED SHEAR STUDS UNIFORMLY SPACED ALONG LENGTH OF BEAM. SEE DETAILS 1 & 2 ON S-501.
	DENOTES APPROXIMATE SIZE/LOCATION OF MECHANICAL OPENINGS. COORDINATE EXACT SIZE/LOCATION AND QUANTITIES w/ MECHANICAL CONTRACTOR. REFERENCE TYPICAL OPENING DETAILS ON S-501. NOTE: ALL OPENINGS MAY NOT BE SHOWN ON PLAN.

NOTE: THE MECHANICAL AND PLUMBING DESIGNS ARE STILL BEING DEVELOPED AS OF THIS PRINTING, AND THEREFORE, OPENING QUANTITIES/SIZES/LOCATIONS ARE LARGELY UNKNOWN. STEEL FABRICATOR SHALL COORDINATE OPENINGS WITH OTHER TRADES ONCE THOSE CONTRACTS HAVE BEEN ASSIGNED.

FOR MULTIPLE CLOSELY SPACED OPENINGS, TREAT AS ONE LARGE OPENING.

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Project No. 2017-105.MHS
Project Date 09.06.2018
Produced RMD

WESLEY B. HAMISON
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STATE OF Indiana
PROFESSIONAL ENGINEER

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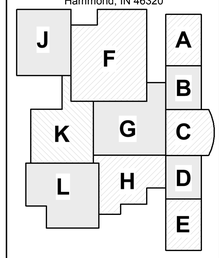


KEY PLAN

N

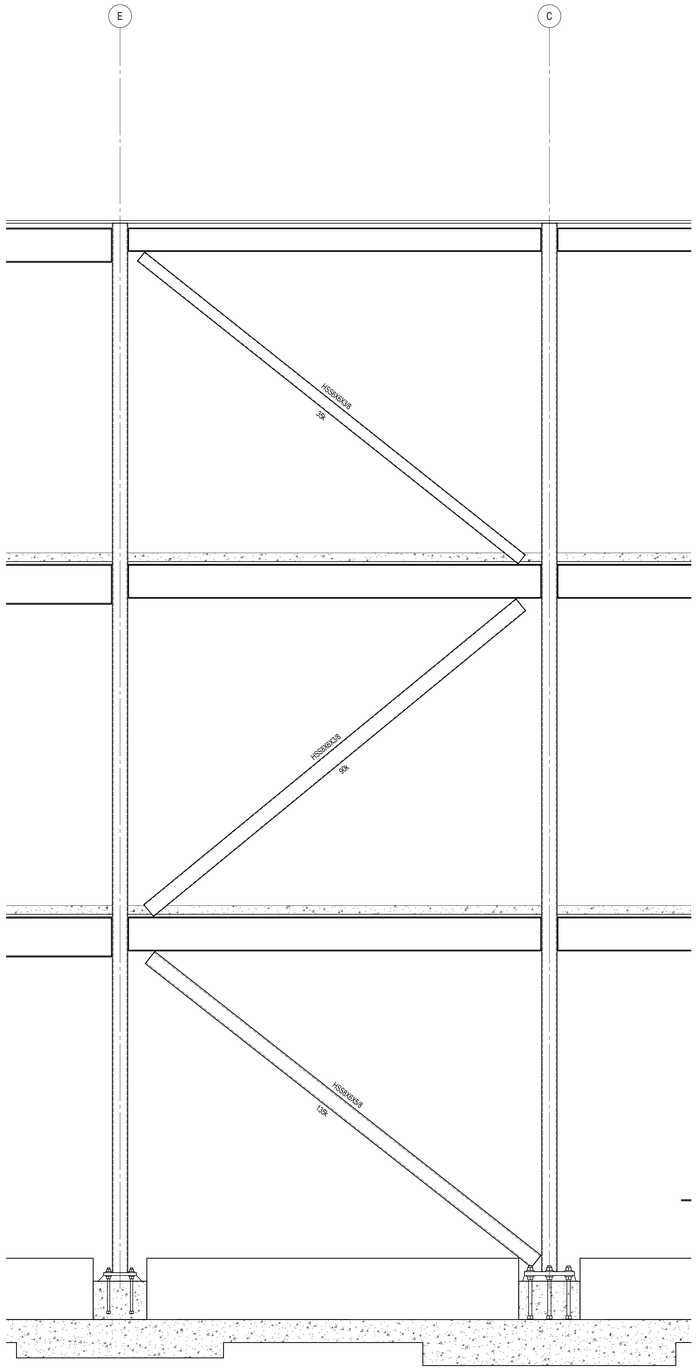
School City of Hammond

School City of Hammond

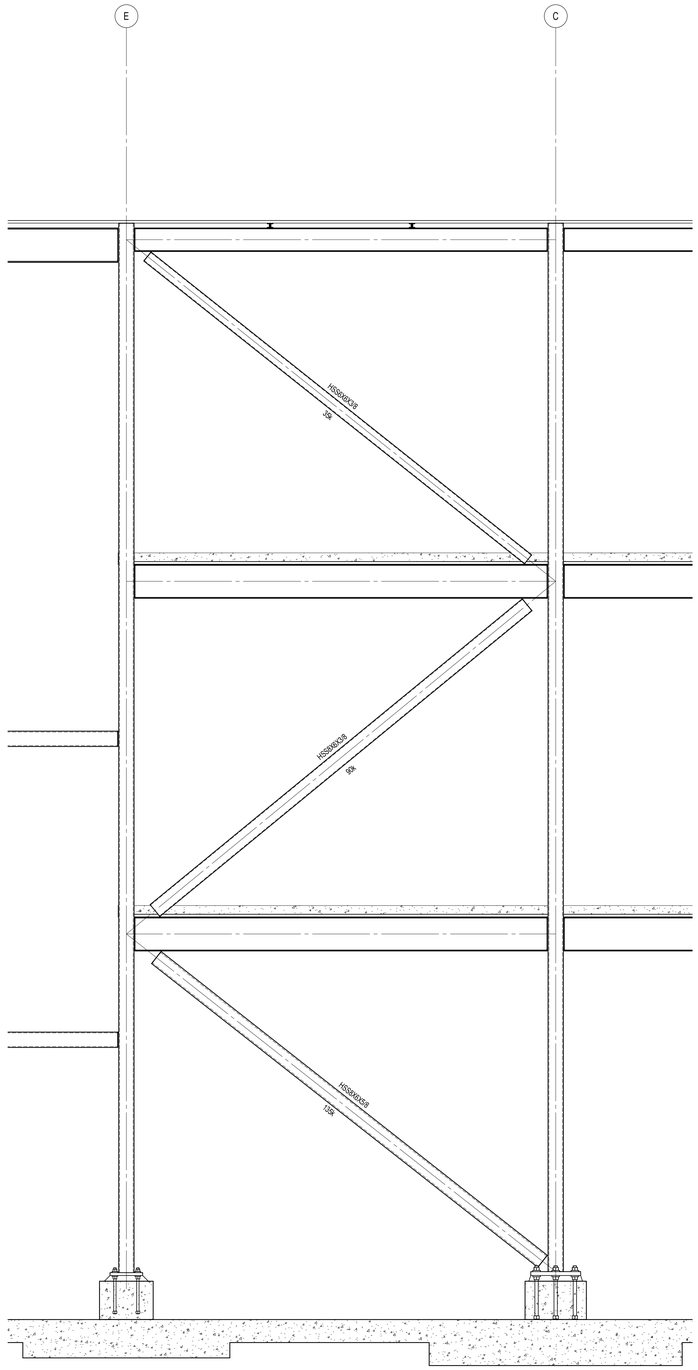
Hammond Middle High School

UNIT L ROOF FRAMING PLAN

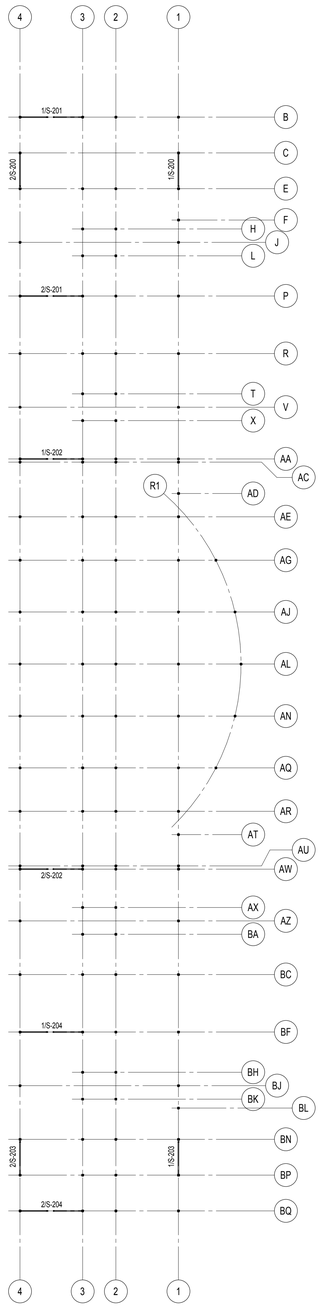
SF1LR.1



2 BRACING ELEVATION ALONG GRID 4 - UNIT A
3/8" = 1'-0"



1 BRACING ELEVATION ALONG GRID 1 - UNIT A
3/8" = 1'-0"



A OVERALL BRACING PLAN FOR REFERENCE
1/32" = 1'-0"

BRACING NOTES

1. UNLESS NOTED OTHERWISE, ALL WORK POINTS SHALL BE AT THE TOP OF THE COLUMN BASEPLATE AND AT THE INTERSECTION OF MEMBER NEUTRAL AXES.
2. ALL GUSSET PLATE CONNECTION MATERIAL SHALL BE GRADE A36 WITH A MINIMUM THICKNESS OF 1/2". NOTE: GUSSETS NOT SHOWN.
3. PROVIDE (1) ERECTION BOLT AT EACH END OF HSS BRACING MEMBERS AND WELD AFTER ERECTION.
4. DESIGN HSS BRACING CONNECTIONS CAPABLE OF RESISTING BRACE AXIAL ALLOWABLE STRESS DESIGN FORCES AS INDICATED IN KIPS (k).
5. ALLOWABLE STRESSES IN CONNECTIONS SHALL NOT BE INCREASED BY 1/3.
6. PROVIDE (1/2" x FULL DEPTH) BEAM WEB STIFFENERS ON EACH SIDE OF BEAM WEBS. TYPICAL WHERE BRACING MEMBER CENTERLINE INTERSECTS BEAM NEUTRAL AXIS (NOT REQUIRED WHEN WORK POINT IS ON COLUMN CENTERLINE).
7. REFERENCE PLANS FOR TOP OF FOOTING/PIER & TOP OF STEEL ELEVATIONS.
8. ALL BRACED FRAME BEAM-TO-COLUMN CONNECTIONS SHALL BE SLIP-CRITICAL.

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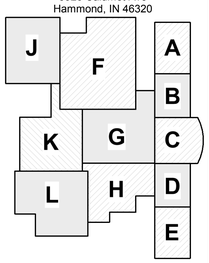


KEY PLAN

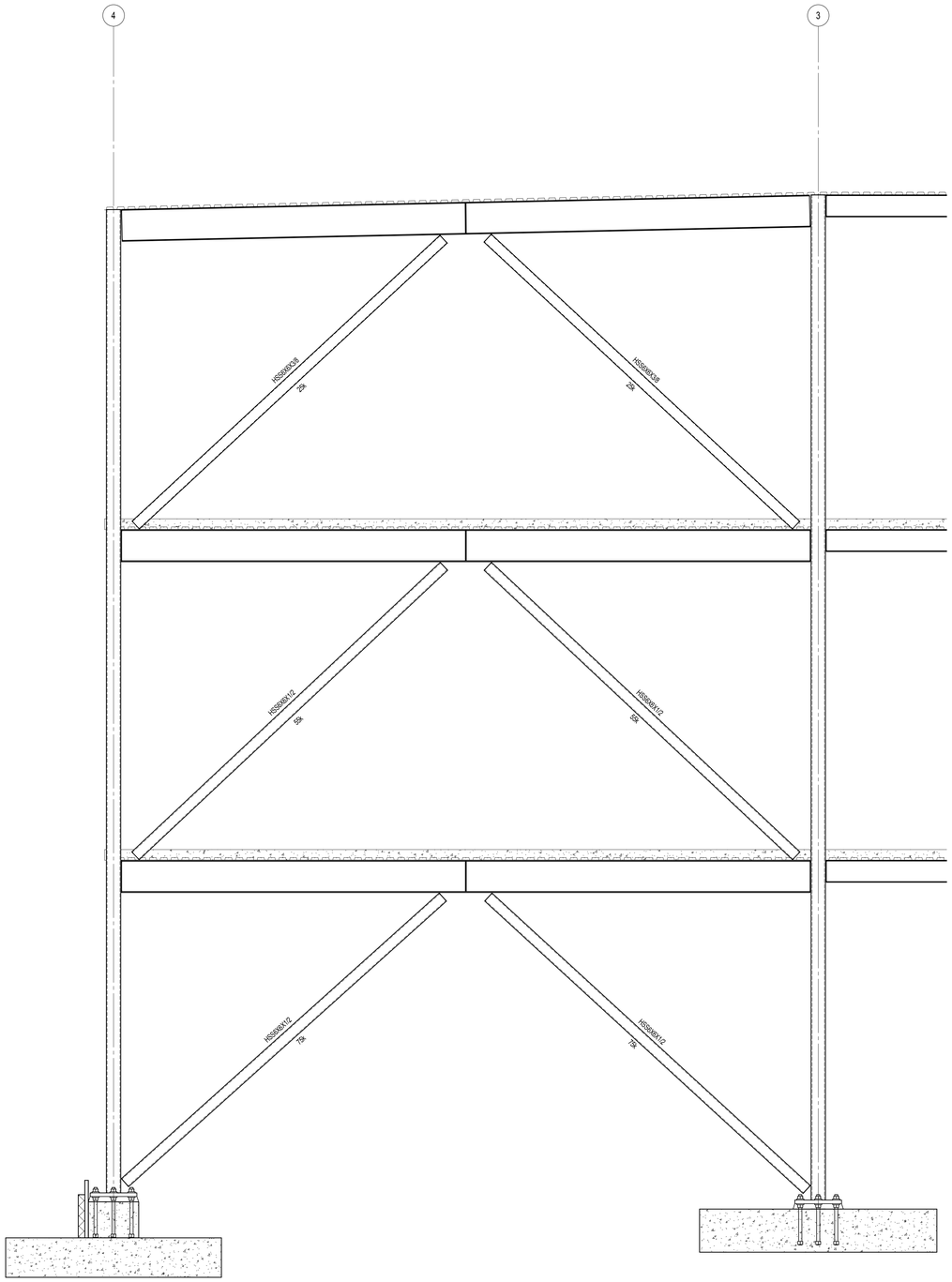
School City of Hammond

School City of Hammond

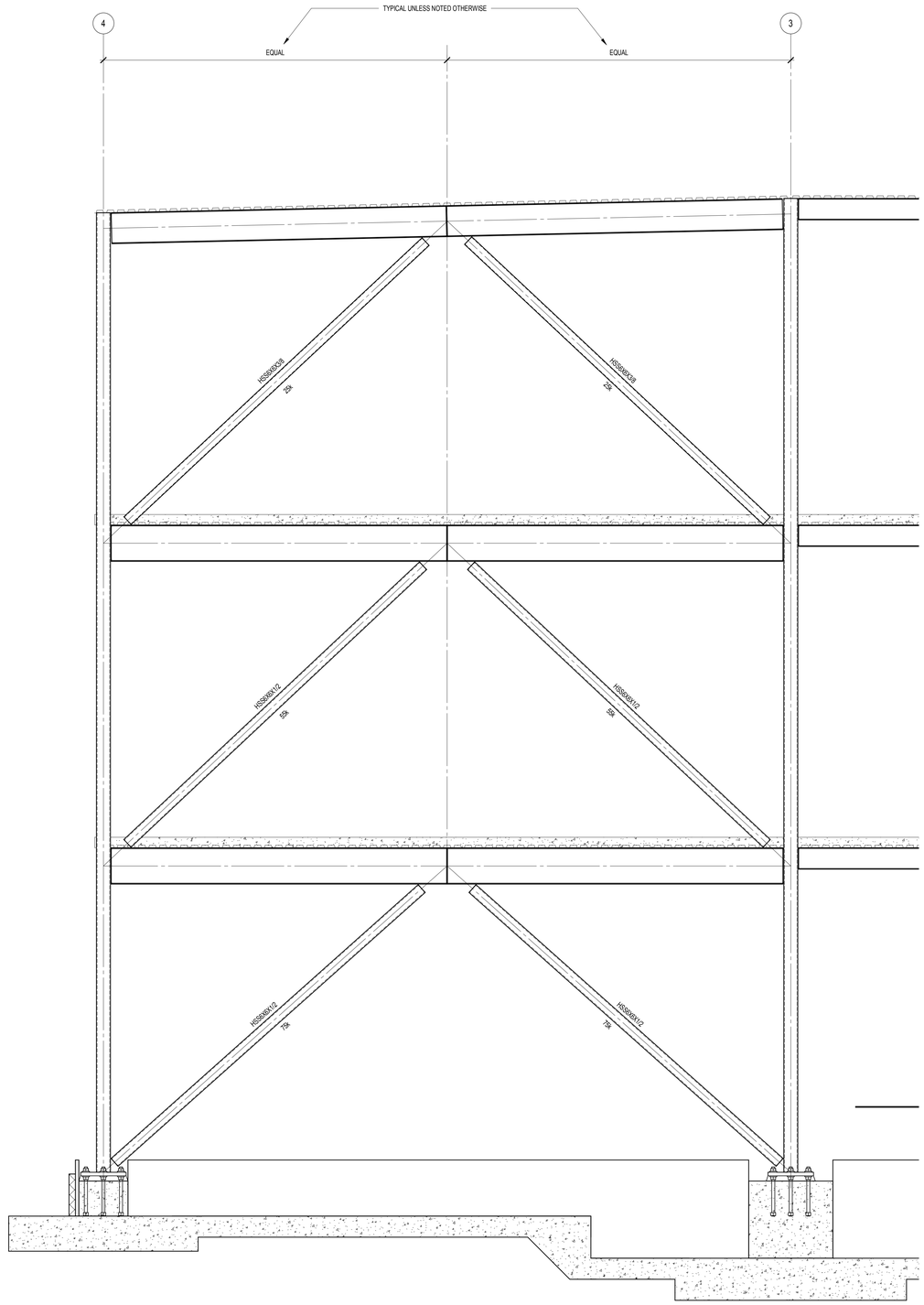
Hammond Middle High School

BRACING ELEVATIONS

S-200.1



2 BRACING ELEVATION ALONG GRID P
3/8" = 1'-0"



1 BRACING ELEVATION ALONG GRID B
3/8" = 1'-0"

BRACING NOTES

1. UNLESS NOTED OTHERWISE, ALL WORK POINTS SHALL BE AT THE TOP OF THE COLUMN BASEPLATE AND AT THE INTERSECTION OF MEMBER NEUTRAL AXES.
2. ALL GUSSET PLATE CONNECTION MATERIAL SHALL BE GRADE A36 WITH A MINIMUM THICKNESS OF 1/2". NOTE: GUSSETS NOT SHOWN.
3. PROVIDE (1) ERECTION BOLT AT EACH END OF HSS BRACING MEMBERS AND WELD AFTER ERECTION.
4. DESIGN HSS BRACING CONNECTIONS CAPABLE OF RESISTING BRACE AXIAL ALLOWABLE STRESS DESIGN FORCES AS INDICATED IN KIPS (k).
5. ALLOWABLE STRESSES IN CONNECTIONS SHALL NOT BE INCREASED BY 1/3.
6. PROVIDE (1/2" x FULL DEPTH) BEAM WEB STIFFENERS ON EACH SIDE OF BEAM WEBS. TYPICAL WHERE BRACING MEMBER CENTERLINE INTERSECTS BEAM NEUTRAL AXIS (NOT REQUIRED WHEN WORK POINT IS ON COLUMN CENTERLINE).
7. REFERENCE PLANS FOR TOP OF FOOTING/PIER & TOP OF STEEL ELEVATIONS.
8. ALL BRACED FRAME BEAM-TO-COLUMN CONNECTIONS SHALL BE SLIP-CRITICAL.

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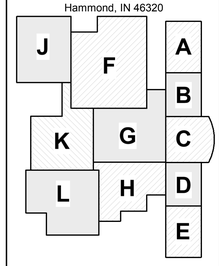

KEY PLAN

School City of Hammond

School City of Hammond

Hammond Middle High School

BRACING ELEVATIONS

S-201.1

S-201.1_BRACING ELEVATIONS
2017-105.MHS_Hammond Middle High School
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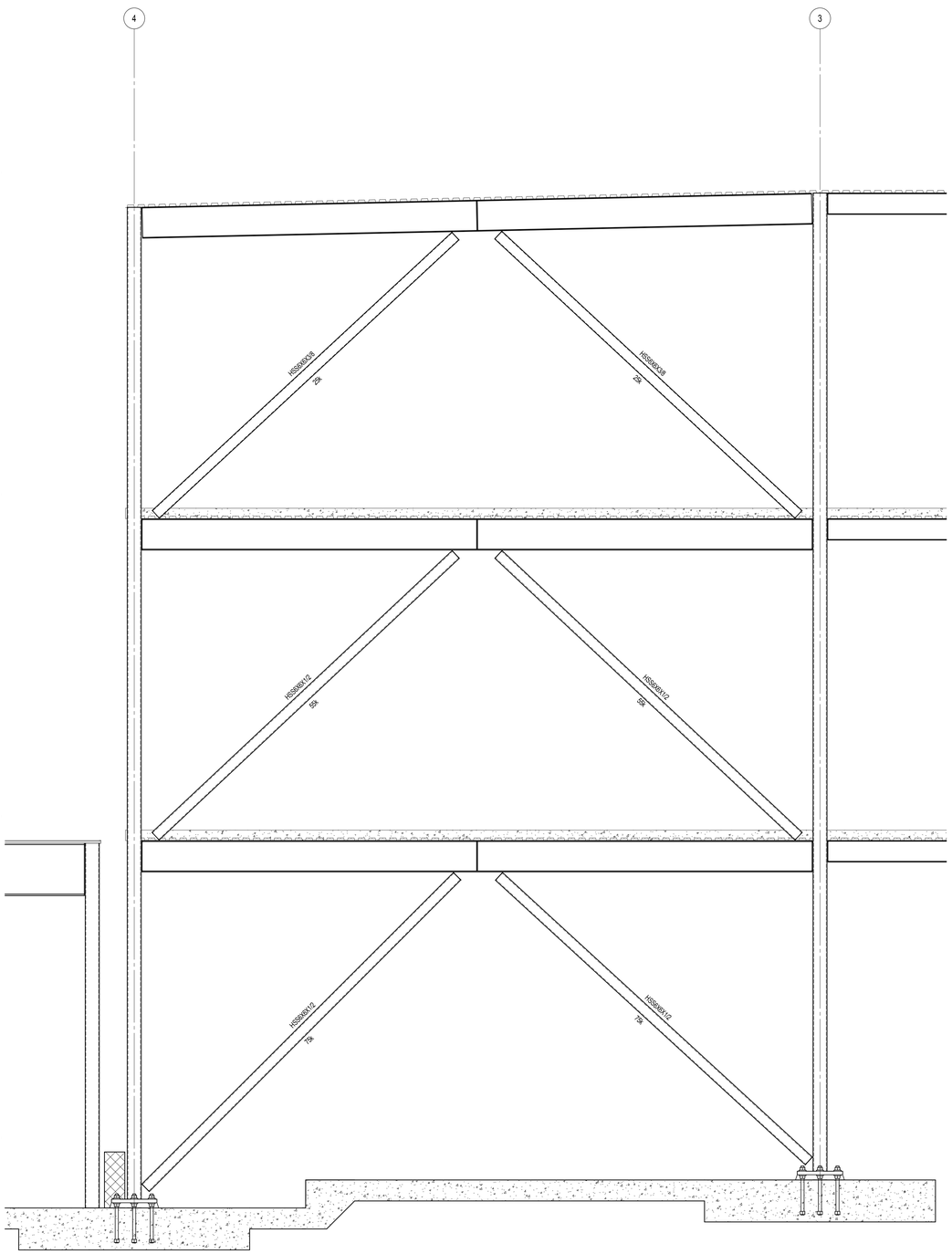
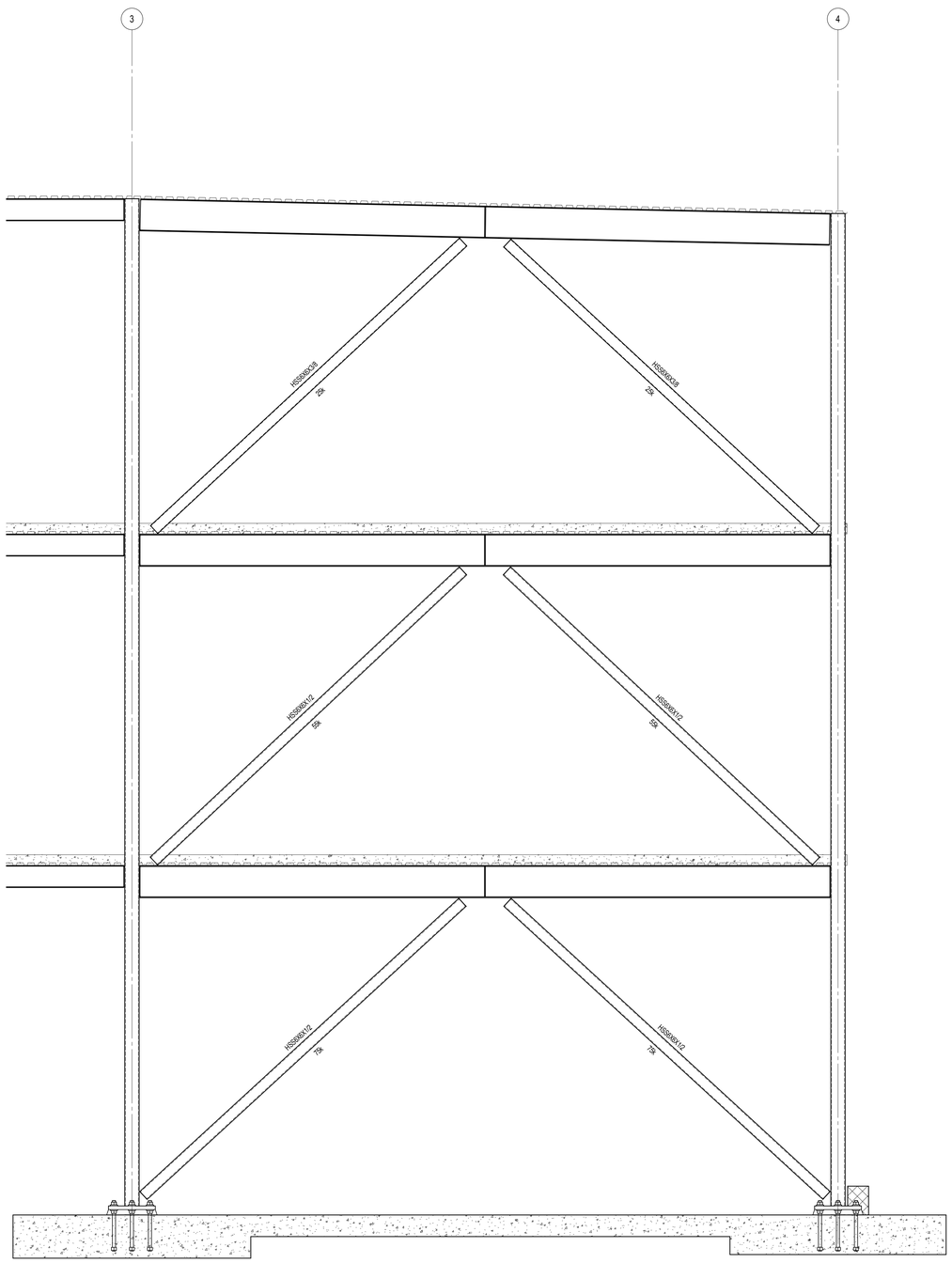


2 BRACING ELEVATION ALONG GRID AW
3/8" = 1'-0"



1 BRACING ELEVATION ALONG GRID AA
3/8" = 1'-0"

BRACING NOTES

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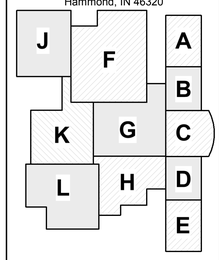


KEY PLAN

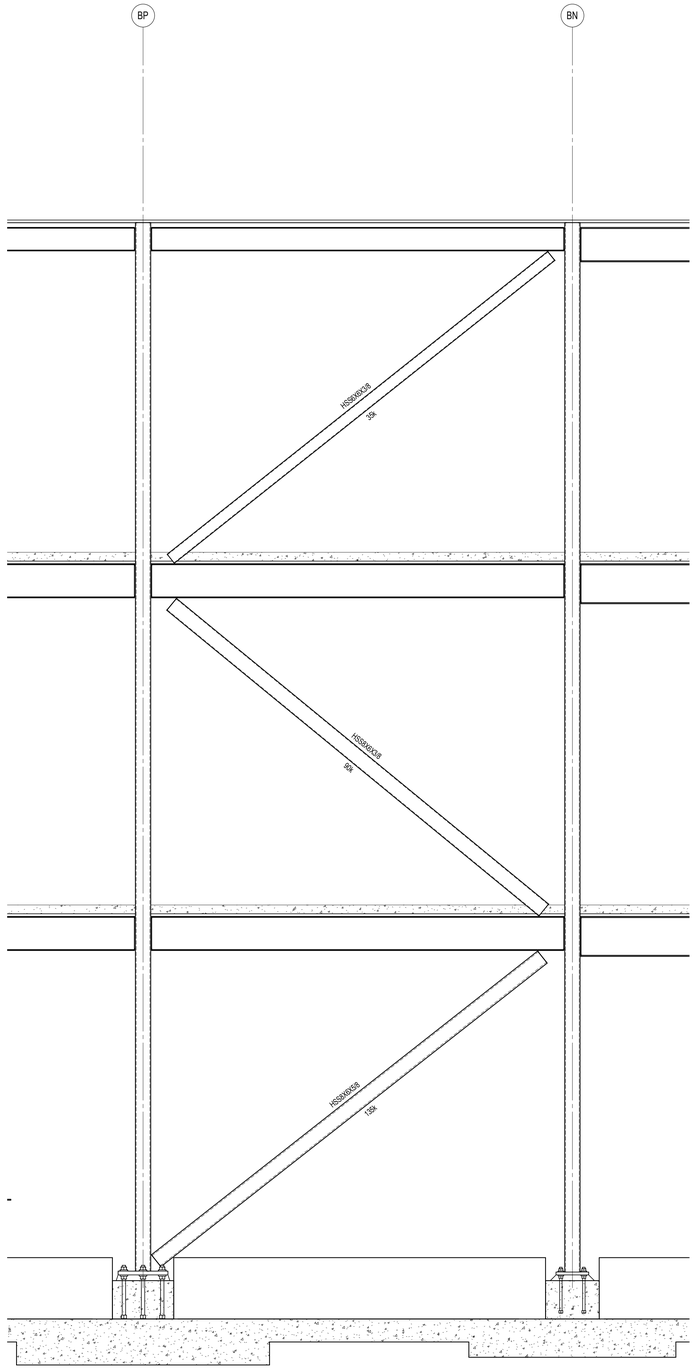
School City of Hammond

School City of Hammond

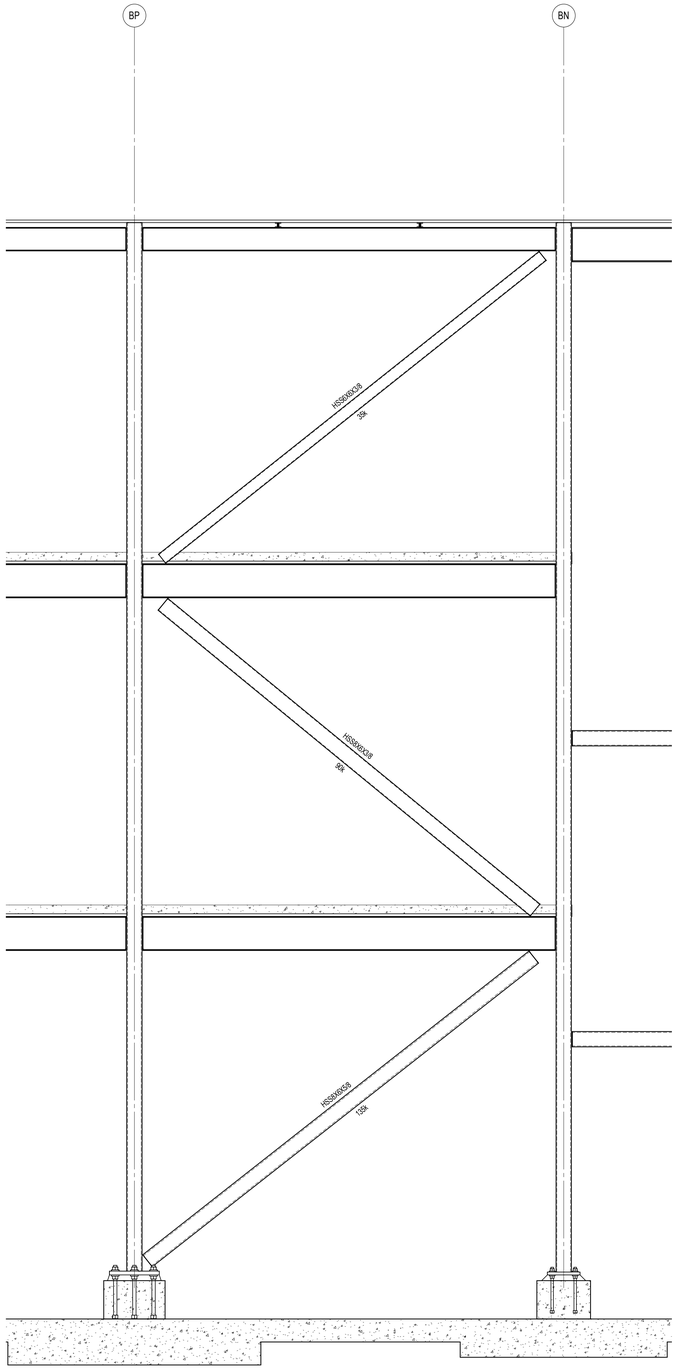
Hammond Middle High School

BRACING ELEVATIONS

S-202.1



2 BRACING ELEVATION ALONG GRID 4 - UNIT E
3/8" = 1'-0"



1 BRACING ELEVATION ALONG GRID 1 - UNIT E
3/8" = 1'-0"

BRACING NOTES

1. UNLESS NOTED OTHERWISE, ALL WORK POINTS SHALL BE AT THE TOP OF THE COLUMN BASEPLATE AND AT THE INTERSECTION OF MEMBER NEUTRAL AXES.
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4. DESIGN HSS BRACING CONNECTIONS CAPABLE OF RESISTING BRACE AXIAL ALLOWABLE STRESS DESIGN FORCES AS INDICATED IN KIPS (k).
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6. PROVIDE (1/2" x FULL DEPTH) BEAM WEB STIFFENERS ON EACH SIDE OF BEAM WEBS. TYPICAL WHERE BRACING MEMBER CENTERLINE INTERSECTS BEAM NEUTRAL AXIS (NOT REQUIRED WHEN WORK POINT IS ON COLUMN CENTERLINE).
7. REFERENCE PLANS FOR TOP OF FOOTING/PIER & TOP OF STEEL ELEVATIONS.
8. ALL BRACED FRAME BEAM-TO-COLUMN CONNECTIONS SHALL BE SLIP-CRITICAL.

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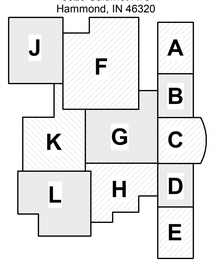

KEY PLAN

N

School City of Hammond

School City of Hammond

Hammond Middle High School

BRACING ELEVATIONS

S-203.1

S-203.1_ BRACING ELEVATIONS
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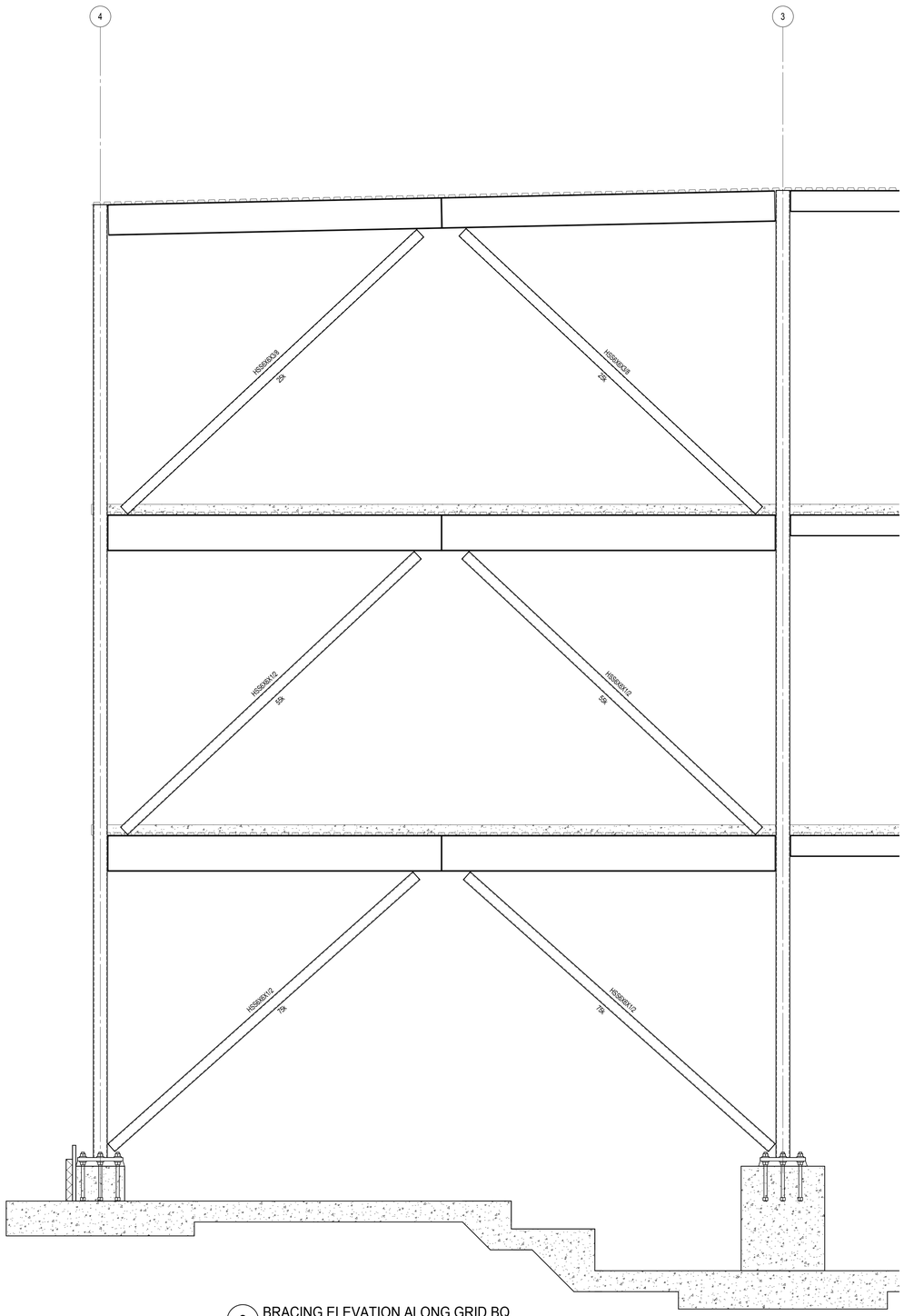
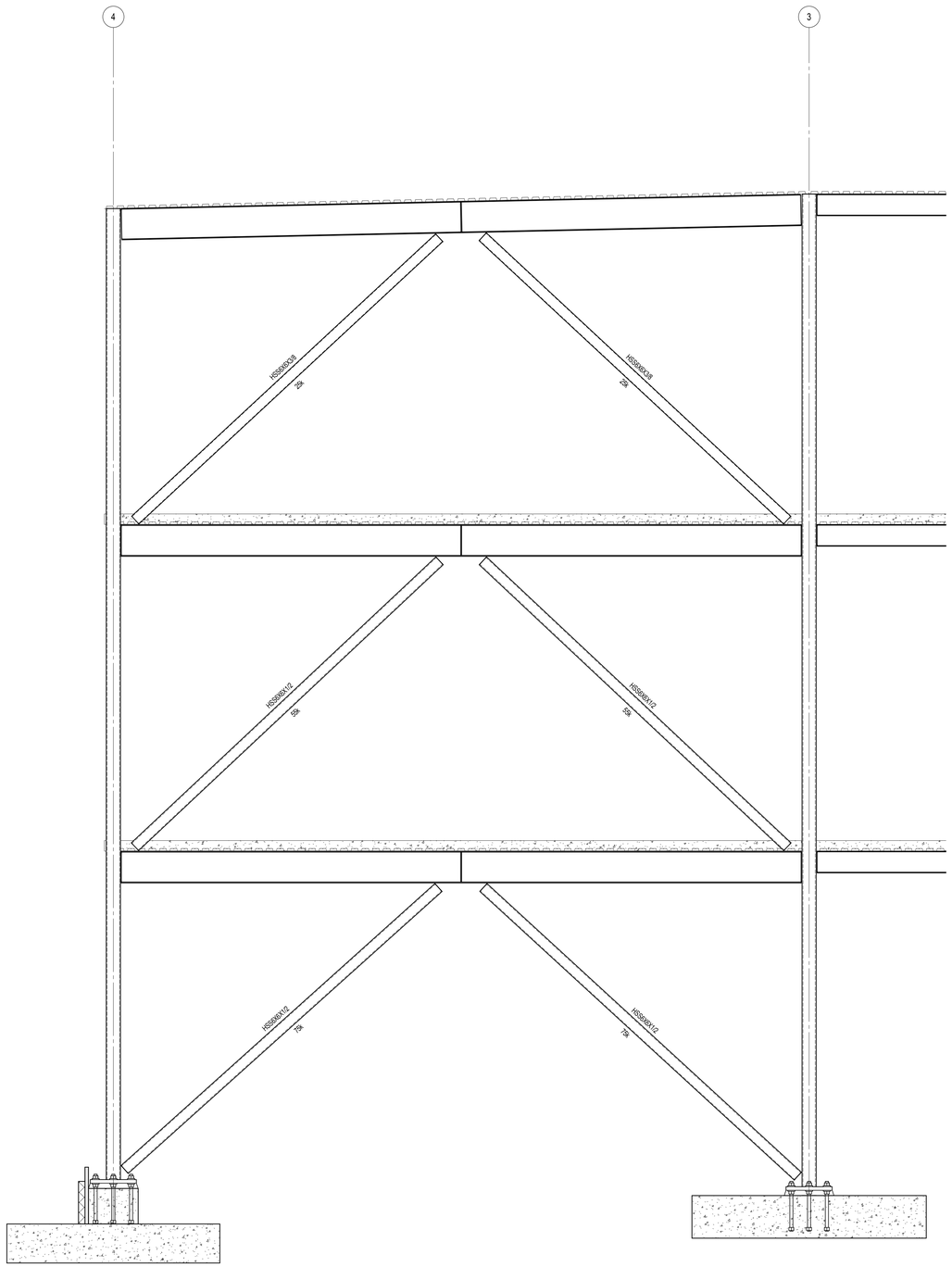


2 BRACING ELEVATION ALONG GRID BQ
3/8" = 1'-0"



1 BRACING ELEVATION ALONG GRID BF
3/8" = 1'-0"

BRACING NOTES

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2. ALL GUSSET PLATE CONNECTION MATERIAL SHALL BE GRADE A36 WITH A MINIMUM THICKNESS OF 1/2". NOTE: GUSSETS NOT SHOWN.
3. PROVIDE (1) ERECTION BOLT AT EACH END OF HSS BRACING MEMBERS AND WELD AFTER ERECTION.
4. DESIGN HSS BRACING CONNECTIONS CAPABLE OF RESISTING BRACE AXIAL ALLOWABLE STRESS DESIGN FORCES AS INDICATED IN KIPS (k).
5. ALLOWABLE STRESSES IN CONNECTIONS SHALL NOT BE INCREASED BY 1/3.
6. PROVIDE (1/2" x FULL DEPTH) BEAM WEB STIFFENERS ON EACH SIDE OF BEAM WEBS. TYPICAL WHERE BRACING MEMBER CENTERLINE INTERSECTS BEAM NEUTRAL AXIS (NOT REQUIRED WHEN WORK POINT IS ON COLUMN CENTERLINE).
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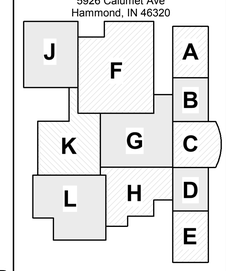


KEY PLAN

School City of Hammond

School City of Hammond

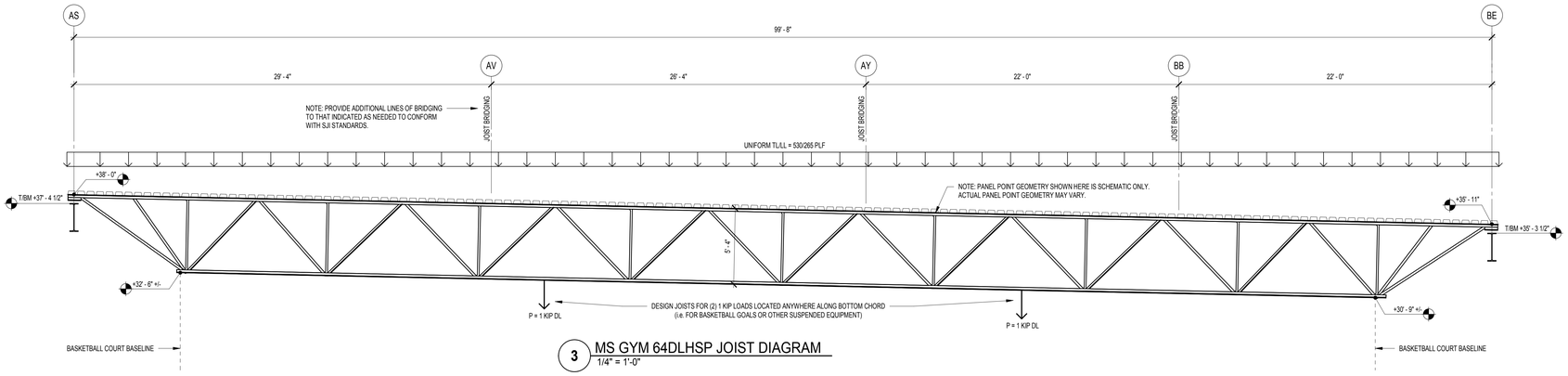
Hammond Middle High School

BRACING ELEVATIONS

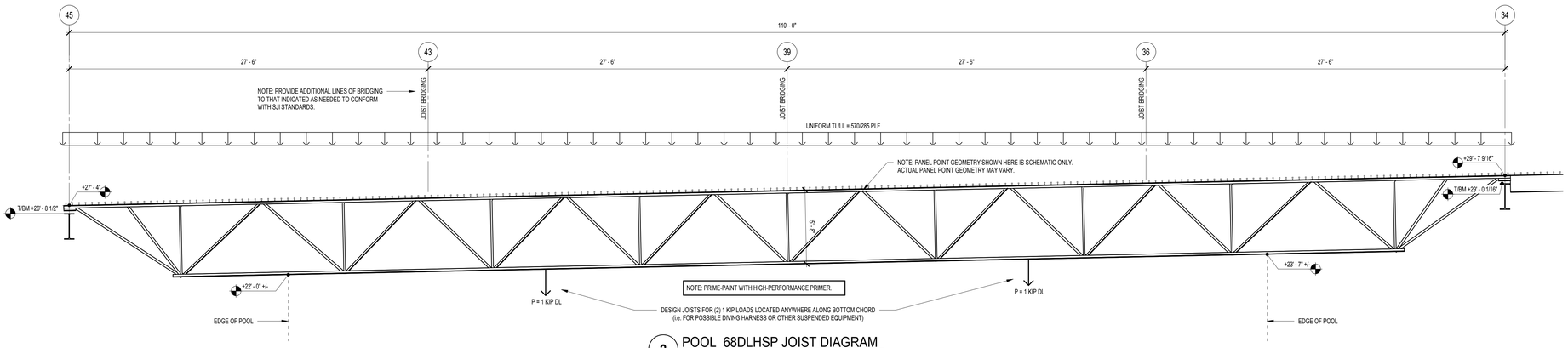
S-204.1

"SP" JOIST DESIGN NOTES:

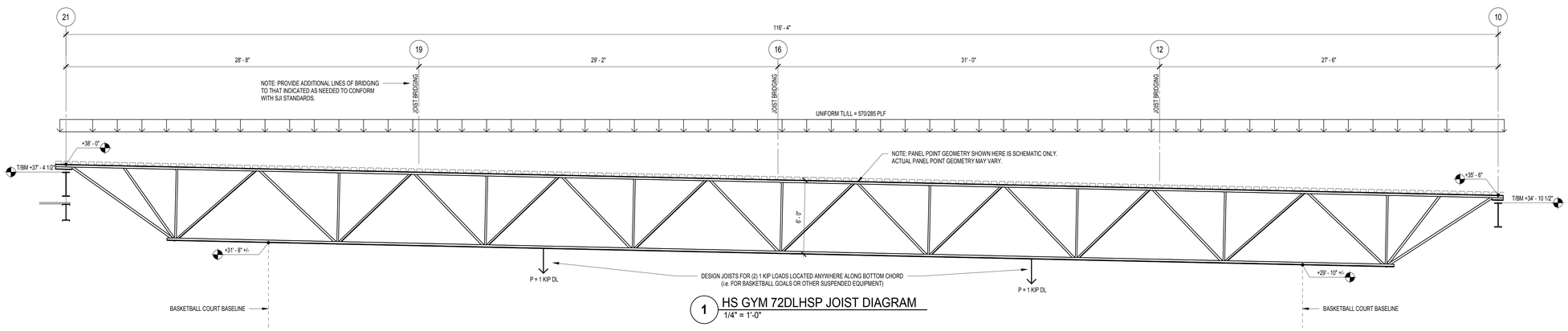
1. PENDING FINAL MECHANICAL DUCTWORK DESIGN & ROUTING ABOVE BOTH GYMS AND ABOVE THE POOL, THE JOIST BRIDGING IN SOME BAYS MAY NEED TO BE HORIZONTAL BRIDGING IN LIEU OF X-BRIDGING IN ORDER TO ACCOMMODATE ROUTING THE DUCTWORK PARALLEL TO AND WITHIN THE DEPTH THE JOISTS. JOIST SUPPLIER SHALL REQUEST CLARIFICATION OF THIS IN THEIR SHOP DRAWING SUBMITTAL BY CLOGGING THIS FOR A/E REVIEW & COMMENT.
2. DESIGN ALL "SP" JOISTS WITH 3.5" MAXIMUM CAMBER AND MAXIMUM LIVE LOAD DEFLECTION = L/480



3 MS GYM 64DLHSP JOIST DIAGRAM
1/4" = 1'-0"



2 POOL 68DLHSP JOIST DIAGRAM
1/4" = 1'-0"



1 HS GYM 72DLHSP JOIST DIAGRAM
1/4" = 1'-0"

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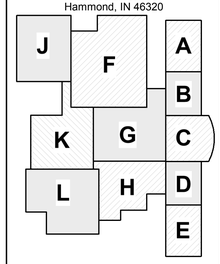
Hammond, IN 46320



KEY PLAN

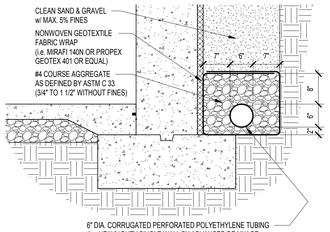
School City of Hammond

School City of Hammond

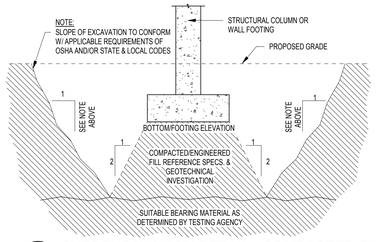
Hammond Middle High School

JOIST DIAGRAMS

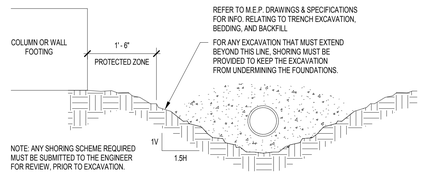
S-210.1



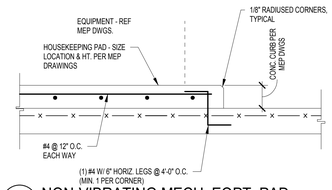
25 TYPICAL FOUNDATION DRAIN DETAIL
3/4" = 1'-0"



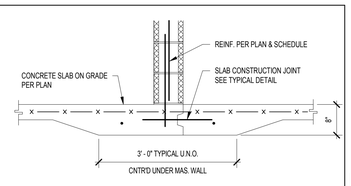
21 OVEREXCAVATION DETAIL - COMPACTED FILL
1/2" = 1'-0"

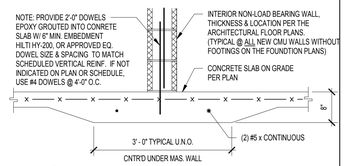


17 EXCAVATION LIMITS DETAILS
3/4" = 1'-0"

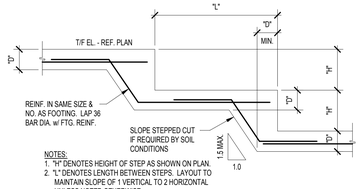


11 NON-VIBRATING MECH. EQPT. PAD
3/4" = 1'-0"

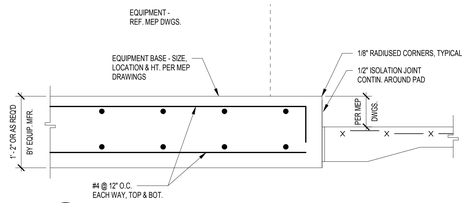




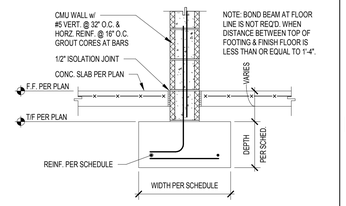
5 THICKENED SLAB AT CMU WALLS
3/4" = 1'-0"



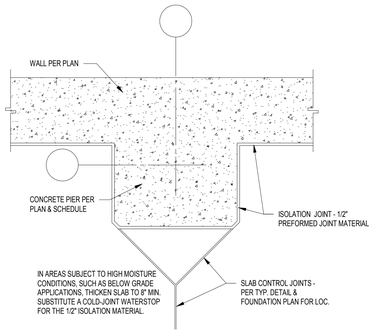
16 STEPPED FOOTING DETAIL
1/2" = 1'-0"



10 VIBRATING MECHANICAL EQUIPMENT PAD
1" = 1'-0"



4 INTERIOR WALL FOOTING DETAIL
3/4" = 1'-0"

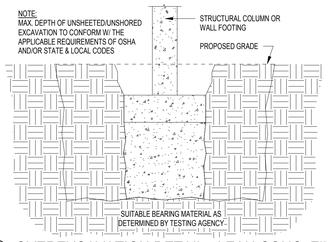


1. WHERE THIN-SET EPOXY TERRAZZO OR VINYL SHEET GOODS ARE THE SCHEDULED FLOOR FINISH, ELIMINATE THE TRIANGULAR-SHAPED ISOLATION JOINT AND EXTEND THE CONTROL JOINTS TO THE FACE OF THE PIER.

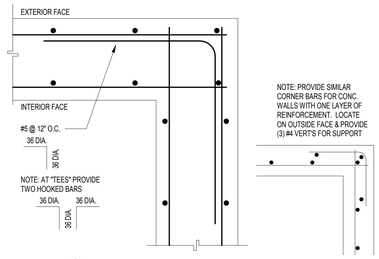
24 CONC. COLUMN ISOLATION JOINT
1" = 1'-0"

1. REFER TO THE SPECIFICATIONS FOR APPLICATION OF UNIT COSTS FOR REMOVAL OF UNSUITABLE BEARING MATERIAL & REPLACEMENT W/ LEAN CONCRETE FILL.

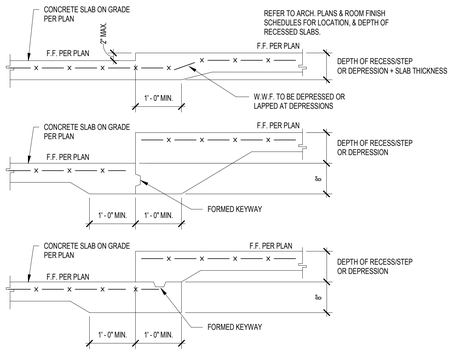
2. REFER TO THE GEOTECHNICAL ENGINEERING REPORT FOR ADDITIONAL INFORMATION RE: EXPECTED SOIL CONDITIONS, SUITABILITY OF EX. SOILS FOR USE AS ENGINEERED FILL, GROUNDWATER CONDITIONS, ETC.



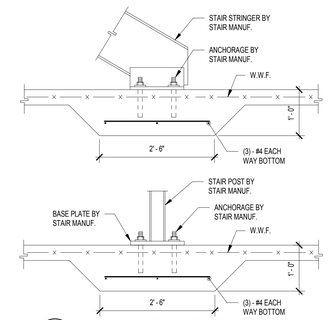
20 OVEREXCAVATION DETAIL - LEAN CONC. FILL
1/2" = 1'-0"



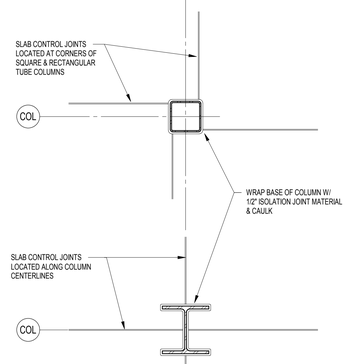
15 C.I.P. WALL CORNER REINFORCING
1" = 1'-0"



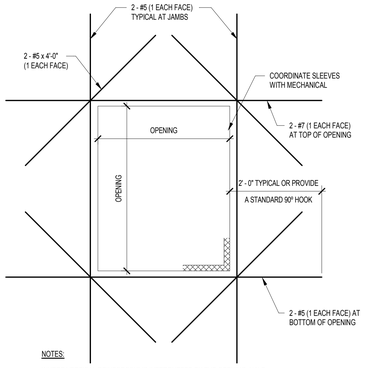
9 RECESSED SLAB DETAILS
3/4" = 1'-0"



3 THICKENED SLAB AT STAIR POSTS
3/4" = 1'-0"



23 STEEL COLUMN ISOLATION JOINT
3/4" = 1'-0"



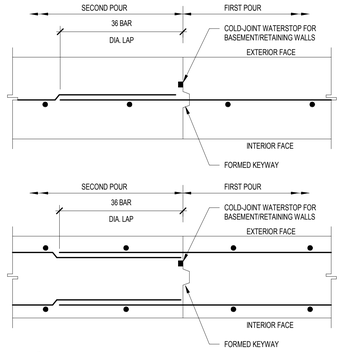
NOTES:

WHERE VERTICAL REINFORCING IS INTERRUPTED BY THE OPENING, HALF OF THE INTERRUPTED STEEL SHALL BE ADDED EACH SIDE OF THE OPENING. USE FULL LENGTH BARS. IF BARS CANNOT BE PLACED AS DETAILED, REPLACE THE 1'-6" EXTENSION WITH 6" AND A STANDARD HOOK.

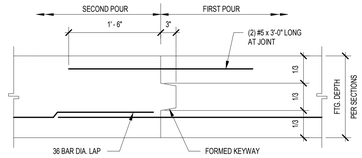
COORDINATE FINAL LOCATION OF MECHANICAL PENETRATIONS WITH MECHANICAL CONTRACTOR BEFORE INSTALLATION OF THE REINFORCING.

THIS DETAIL APPLIES TO ALL SQUARE AND RECTANGULAR OPENINGS IN CONCRETE WALLS UNLESS OTHERWISE NOTED ON THE PLANS.

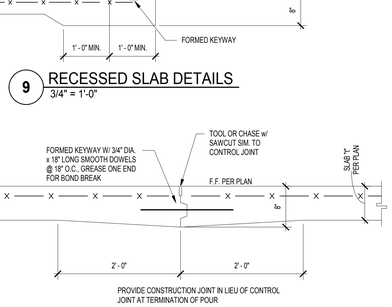
19 C.I.P. WALL RECTANGULAR OPENING
3/4" = 1'-0"



14 C.I.P. WALL CONSTRUCTION JOINTS
1" = 1'-0"



13 WALL FOOTING CONSTRUCTION JOINT
1" = 1'-0"



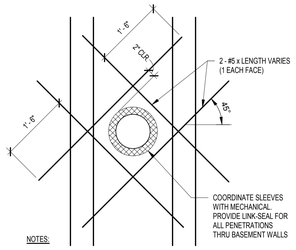
8 SLAB CONSTRUCTION JOINT
1" = 1'-0"

NOTES:
1. REFER TO PLUMBING DRAWINGS FOR INVERT ELEVATION OF ALL UNDERGROUND PIPING.

2. STEP FOOTING FOR PIPE PENETRATION THROUGH FOUNDATION WALL UNLESS WRITTEN PERMISSION IS OBTAINED FROM THE MEP ENGINEER.

3. PROVIDE PRECAST OR BOND BEAM LINTEL FOR MULTIPLE PENETRATIONS OR OPENINGS GREATER THAN 24" IN WIDTH.

22 CMU FOUNDATION WALL PIPE SLEEVE DETAIL
3/4" = 1'-0"



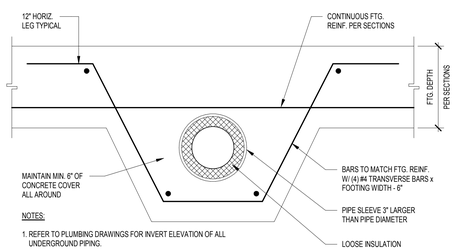
NOTES:

WHERE VERTICAL REINFORCING IS INTERRUPTED BY THE OPENING, HALF OF THE INTERRUPTED STEEL SHALL BE ADDED EACH SIDE OF THE OPENING. USE FULL LENGTH BARS. IF BARS CANNOT BE PLACED AS DETAILED, REPLACE THE 1'-6" EXTENSION WITH 6" AND A STANDARD HOOK.

COORDINATE FINAL LOCATION OF PIPE PENETRATIONS WITH MECHANICAL CONTRACTOR BEFORE INSTALLATION OF THE REINFORCING.

THIS DETAIL APPLIES TO ALL ROUND AND ELLIPTICAL OPENINGS IN CONCRETE WALLS, UNLESS OTHERWISE NOTED ON THE PLANS.

18 C.I.P. WALL ROUND OPENING
3/4" = 1'-0"



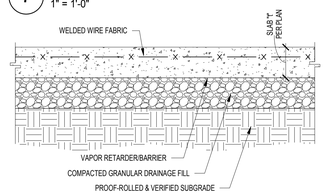
NOTES:

1. REFER TO PLUMBING DRAWINGS FOR INVERT ELEVATION OF ALL UNDERGROUND PIPING.

2. PROVIDE THIS DETAIL WHERE A PENETRATION THROUGH A WALL FOOTING IS UNAVOIDABLE.

3. NO SLEEVES IN COLUMN FOOTINGS ARE PERMITTED WITHOUT PRIOR WRITTEN APPROVAL OF THE ARCHITECT/ENGINEER.

12 WALL FOOTING SLEEVE DETAIL
1" = 1'-0"



1. LOCATE WELDED WIRE FABRIC IN UPPER THIRD OF SLAB. SUPPORT ON BOLSTERS, CHAIRS, OR CONCRETE BRICKS.

2. LAP WELDED WIRE FABRIC A MIN. OF ONE FULL MESH SPACING.

3. THE USE OF NYLON OR POLYPROPYLENE FIBER IN LIEU OF WELDED WIRE FABRIC AS A SECONDARY REINFORCEMENT IS PERMISSIBLE, UNLESS OTHERWISE NOTED. NOTE: FIBER MAY NOT BE SUBSTITUTED FOR W.W.F. IN SUPPORTED SLABS.

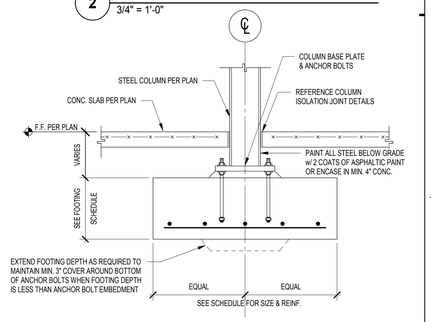
4. SEE PLAN, NOTES, AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS SUCH AS FINISH, JOINTING, CURING, ETC.

6 SLAB ON GRADE CONSTRUCTION
1" = 1'-0"

TEMP, DEG. F	TIME, HOURS
< 40	16
50	14
60	8 1/2
70	5 1/2
80	4
90	3

CONTROL JOINTS SHALL BE SAWN NOT LATER THAN THE FOLLOWING TABLE, OR 16 HOURS AFTER FINAL TROWELING (WHICHEVER IS LESS), WHERE TEMP EQUALS THE AMBIENT TEMPERATURE IN DEGREES FAHRENHEIT AT THEN TIME OF FINAL TROWELING. SAWCUTTING SHALL BE SUSPENDED ONLY IF THE LARGE AGGREGATE IS DISLODGED OR LOOSENED. ALTERNATE: USE PRE-FORMED JOINT FORMER.

7 SLAB CONTROL/CONTRACTION JOINT
1" = 1'-0"



2 INTERIOR COLUMN FOOTING W/ PIER
3/4" = 1'-0"

1 TYPICAL INTERIOR COLUMN FOOTING
3/4" = 1'-0"

SCHMIDT ASSOCIATES
415 Massachusetts Avenue
Indianapolis, IN 46204
www.schmidt-arch.com

Project No. 2017-105.MHS
Project Date 09.06.2018
Produced RMD

WESLEY B. HAMISON
PE60860410
STATE OF Indiana
PROFESSIONAL ENGINEER

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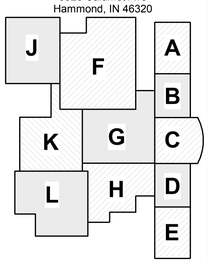
#	Revision	Date

5926 Calumet Ave
Hammond, IN 46320



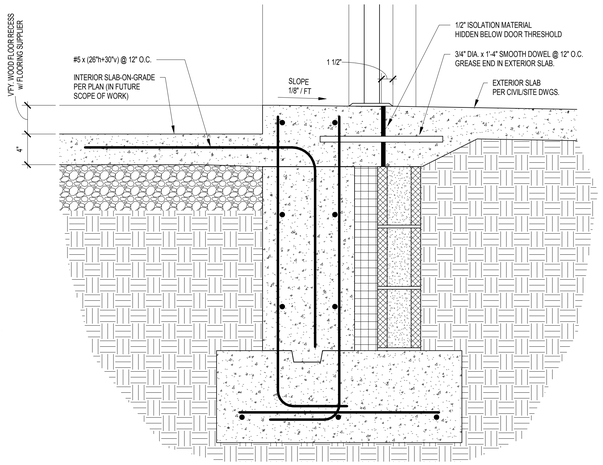
KEY PLAN

School City of Hammond

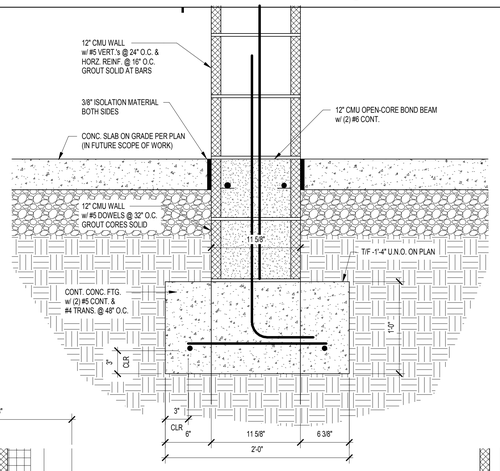
Hammond Middle High School

TYPICAL FOUNDATION DETAILS

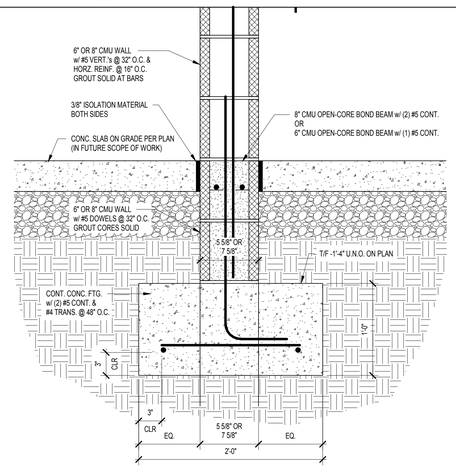
S-400.1



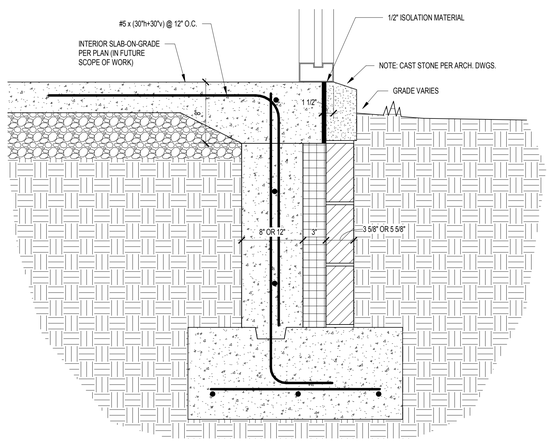
11 TYP. DETAIL AT GYM WOOD FLOOR ENTRIES
1 1/2" = 1'-0"



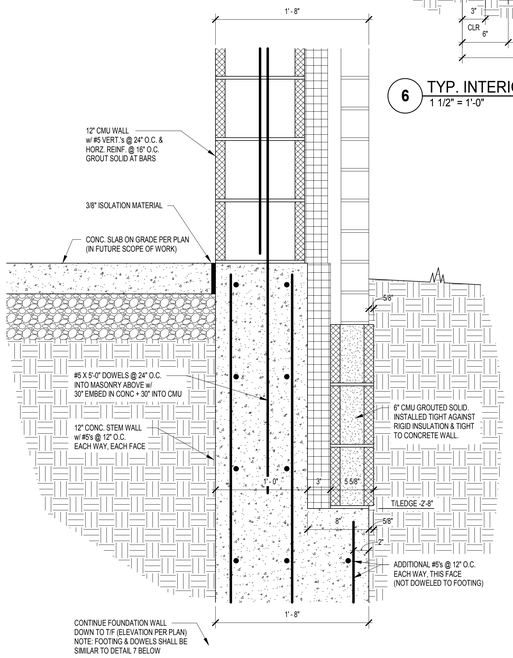
6 TYP. INTERIOR 12" CMU FOUNDATION DETAIL
1 1/2" = 1'-0"



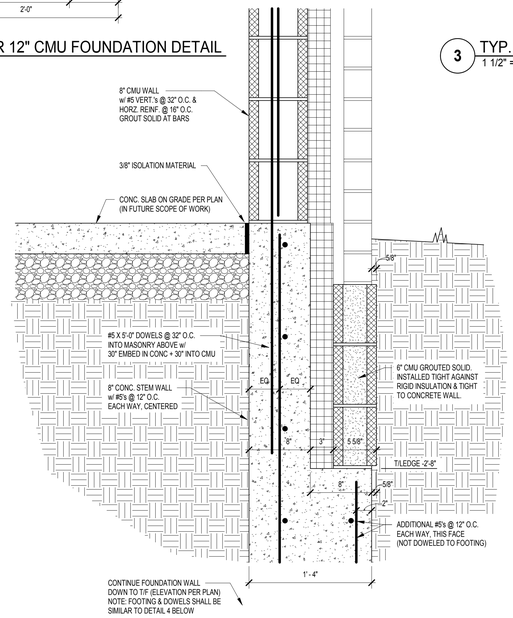
3 TYP. INTERIOR 6" & 8" CMU FOUNDATION DETAIL
1 1/2" = 1'-0"



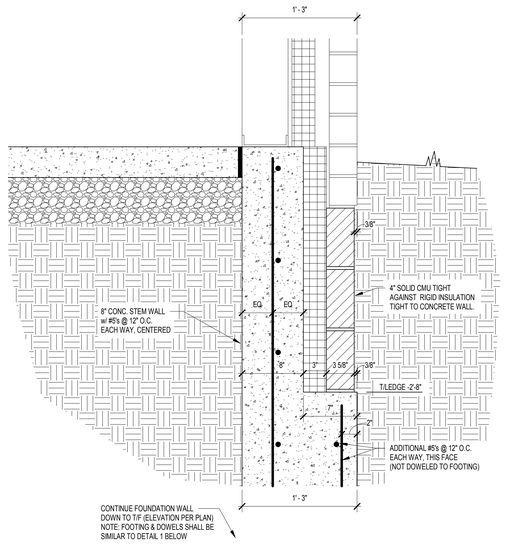
10 TYP. FDN. DETAIL AT STOREFRONT ADJACENT TO GRADE
1 1/2" = 1'-0"



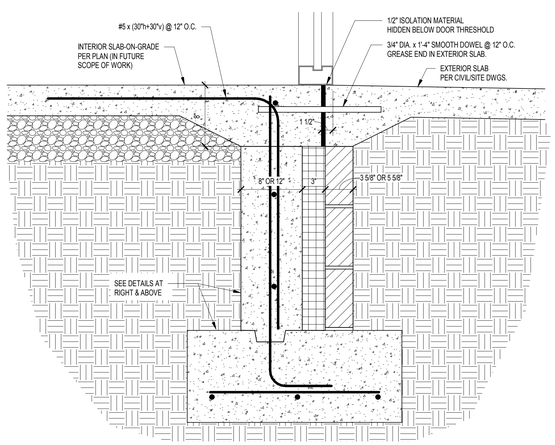
8 TYP. EM12B FOUNDATION WALL (DEEP)
1 1/2" = 1'-0"



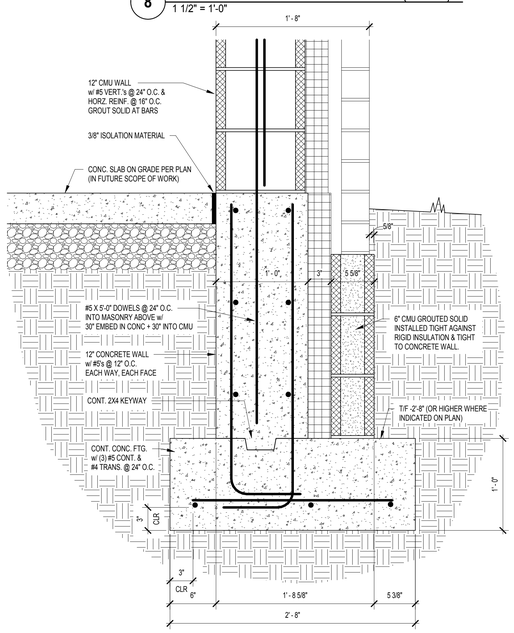
5 TYP. EM8B FOUNDATION WALL (DEEP)
1 1/2" = 1'-0"



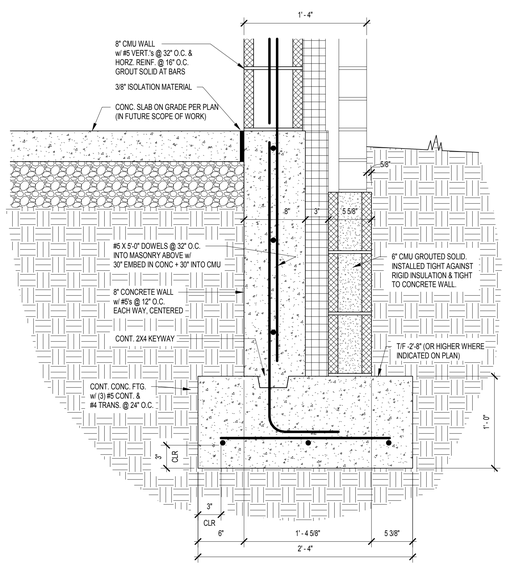
2 TYP. ES6B FOUNDATION WALL (DEEP)
1 1/2" = 1'-0"



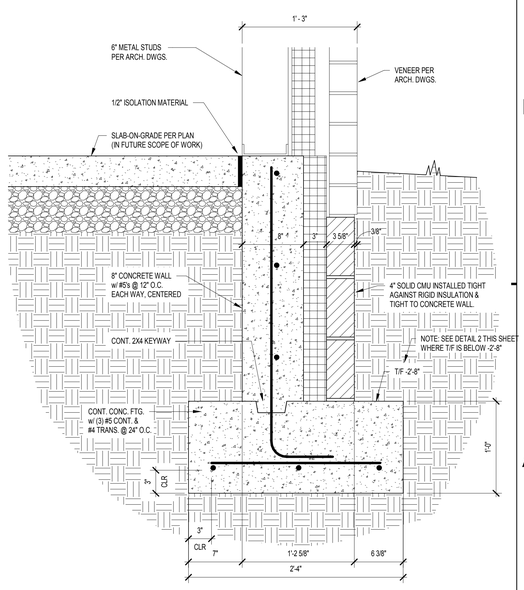
9 TYP. DETAIL AT STOREFRONT & ENTRIES ADJACENT TO SIDEWALK
1 1/2" = 1'-0"



7 TYP. EM12B FOUNDATION WALL (SHALLOW)
1 1/2" = 1'-0"



4 TYP. EM8B FOUNDATION WALL (SHALLOW)
1 1/2" = 1'-0"



1 TYP. ES6B FOUNDATION WALL (SHALLOW)
1 1/2" = 1'-0"

SCHMIDT ASSOCIATES
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Project No. 2017-105.MHS
Project Date 09.06.2018
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WESLEY B. HAMILTON
REGISTERED
PE60860410
STATE OF
Indiana
PROFESSIONAL ENGINEER

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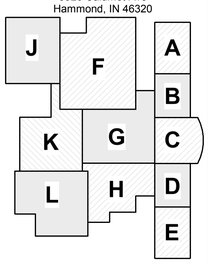
#	Revision	Date

5926 Calumet Ave
Hammond, IN 46320



KEY PLAN

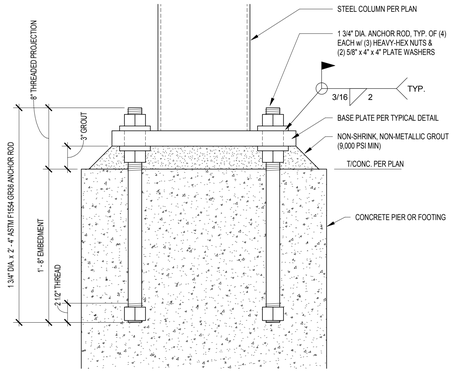
School City of Hammond

School City of Hammond

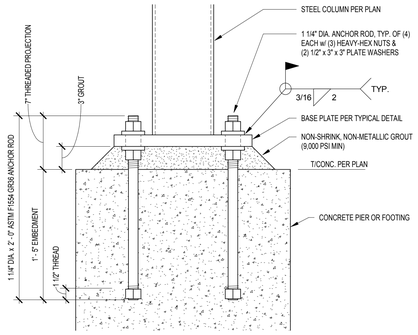
Hammond Middle High School

FOUNDATION SECTIONS AND DETAILS

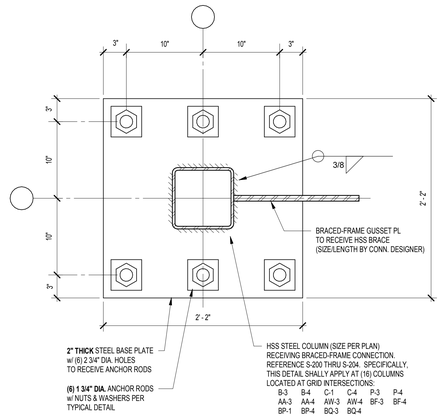
S-401.1

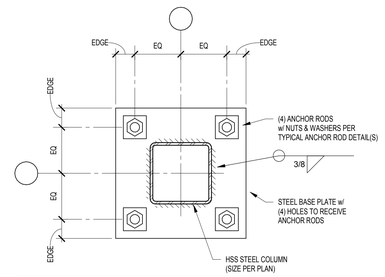


6 TYPICAL 1 3/4" DIA. ANCHOR ROD DETAIL
1 1/2" = 1'-0"



5 TYPICAL 1 1/4" DIA. ANCHOR ROD DETAIL
1 1/2" = 1'-0"

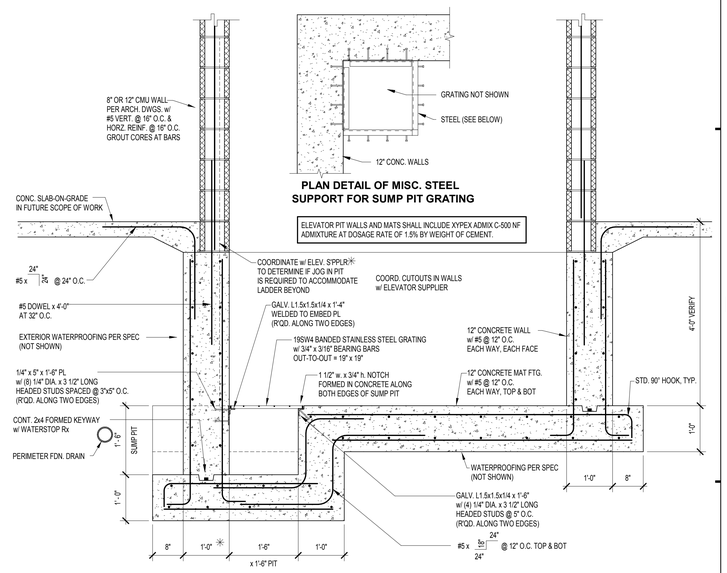




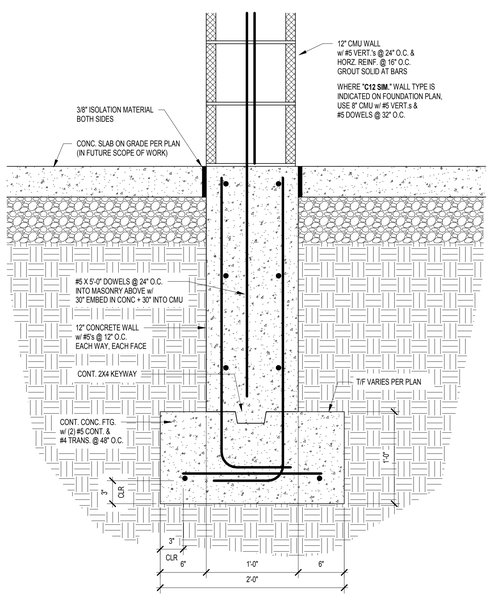
BASEPLATE SCHEDULE (U.N.O. IN DETAILS AT LEFT)

COLUMN SIZE	BASE PLATE SIZE	EQ	EDGE	ANCHOR RODS - (QTY) DIA.	HOLE DIA.
HSS6X6 & HSS6.625	1 1/4" X 1'-3" X 1'-3"	5"	2 1/2"	(4) 1 1/4"	2"
HSS8X8 & HSS8.625	1 1/2" X 1'-5" X 1'-5"	6"	2 1/2"	(4) 1 1/4"	2"
HSS10X10	2" X 1'-10" X 1'-10"	8"	3"	(4) 1 3/4"	2 3/4"

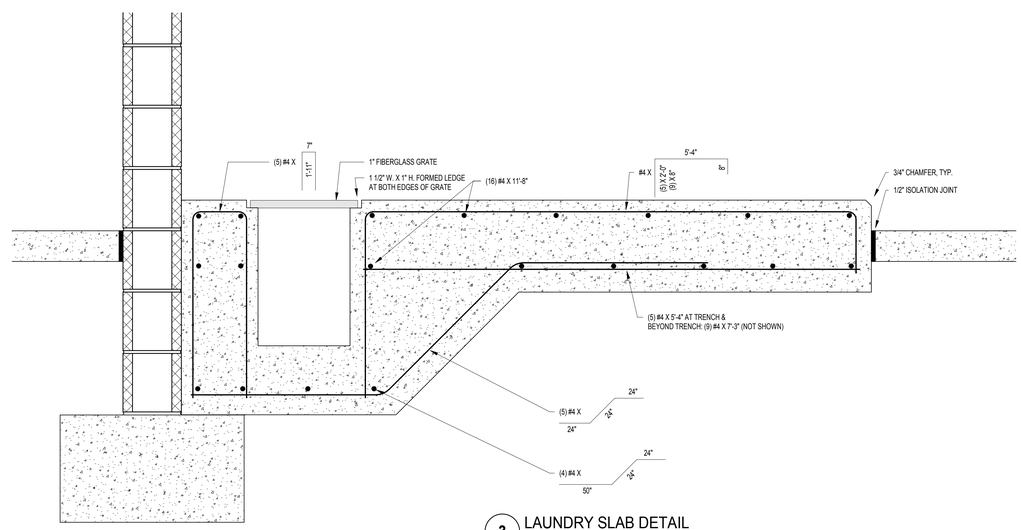
4 TYPICAL COLUMN BASE PLATE PLAN DETAILS
1 1/2" = 1'-0"



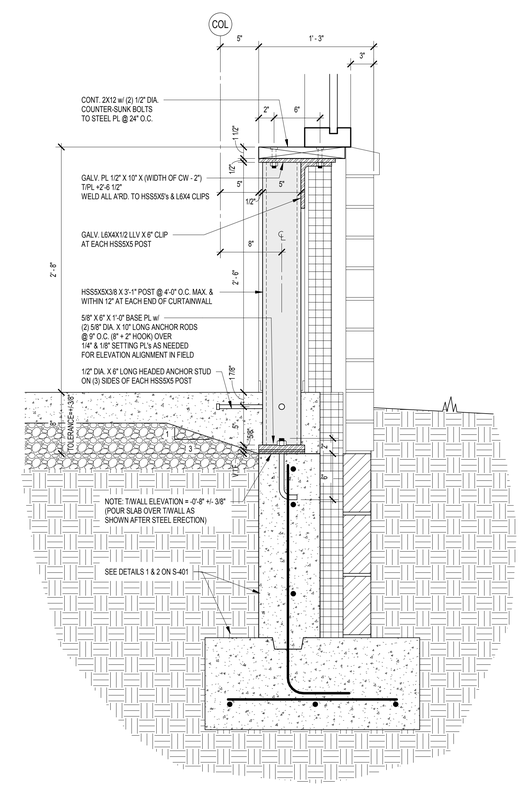
2 ELEVATOR PIT DETAIL
3/4" = 1'-0"



7 TYP. INTERIOR 12" CONC. FOUNDATION DETAIL
1 1/2" = 1'-0"



3 LAUNDRY SLAB DETAIL
1 1/2" = 1'-0"
IN FUTURE SCOPE OF WORK



1 SECTION
1 1/2" = 1'-0"

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Project No. 2017-105.MHS
Project Date 09.06.2018
Produced RMD

WESLEY B. HARRISON
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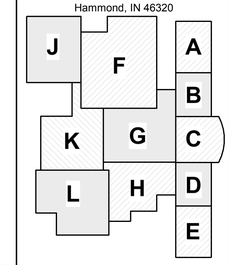
#	Revision	Date

5926 Calumet Ave
Hammond, IN 46320



KEY PLAN

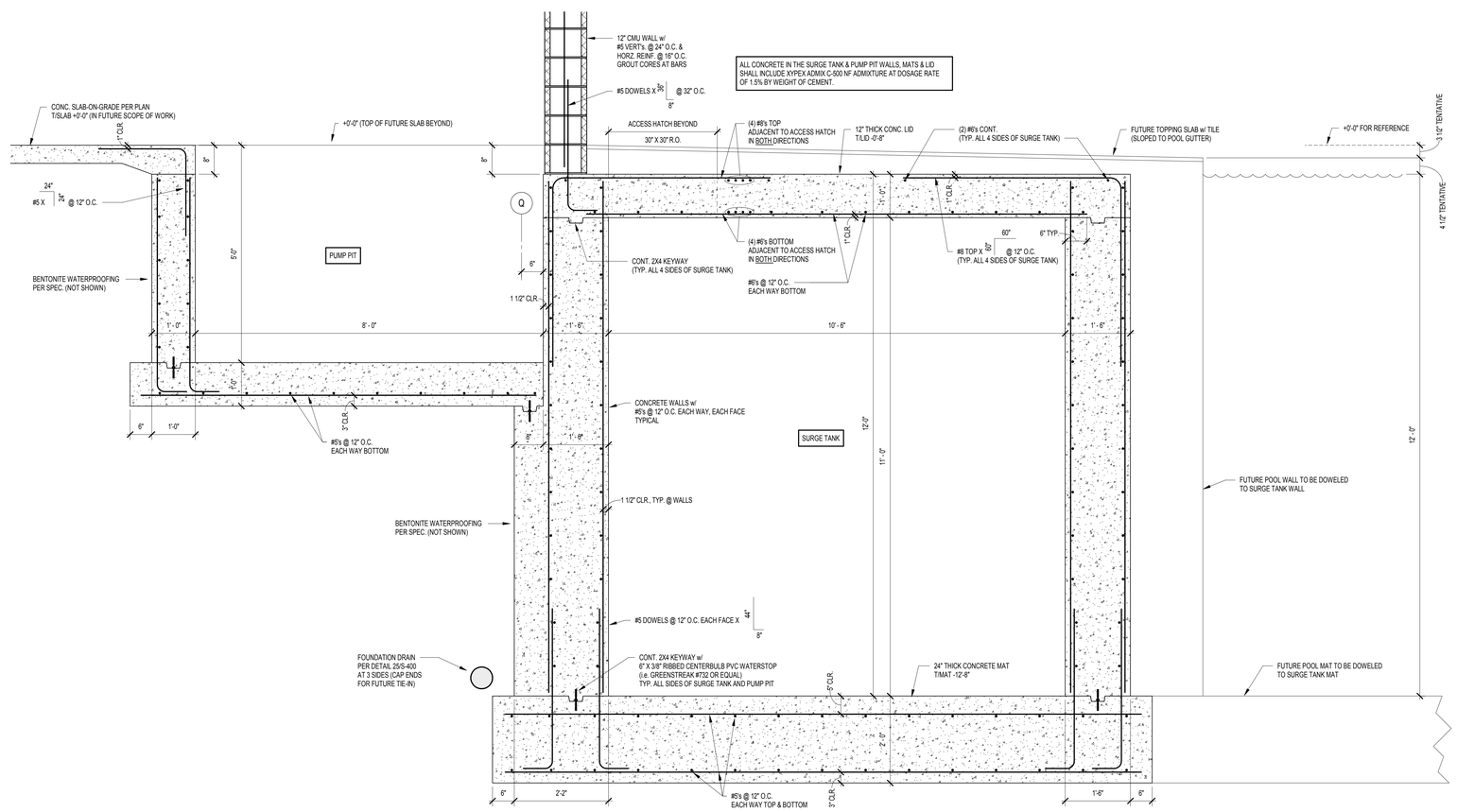
School City of Hammond

School City of Hammond

Hammond Middle High School

FOUNDATION SECTIONS AND DETAILS

S-402.1



1 SURGE TANK SECTION
3/4" = 1'-0"

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#	Revision	Date

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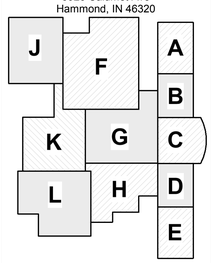


KEY PLAN

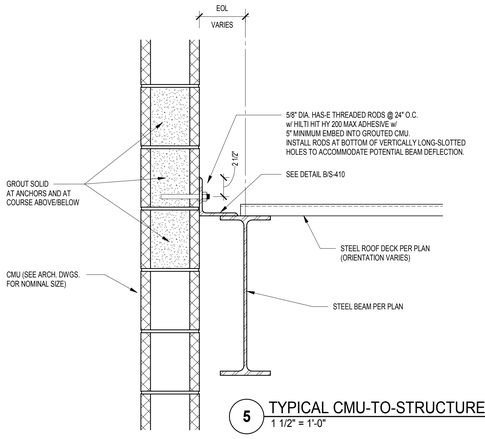
School City of Hammond

School City of Hammond

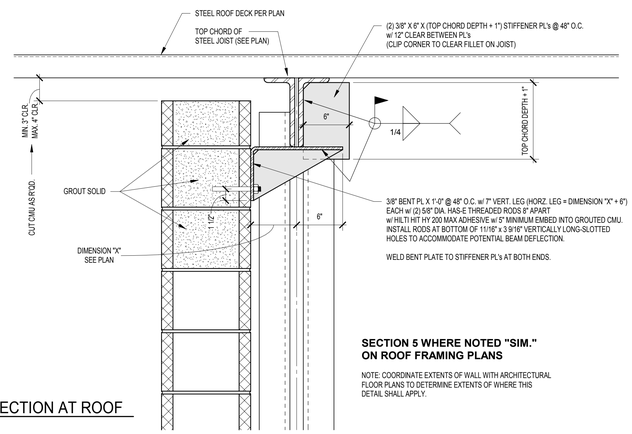
Hammond Middle High School

FOUNDATION SECTIONS AND DETAILS

S-403.1

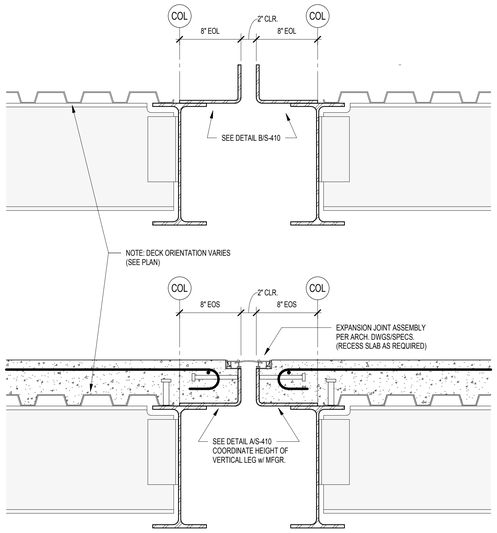


5 TYPICAL CMU-TO-STRUCTURE CONNECTION AT ROOF
1 1/2" = 1'-0"

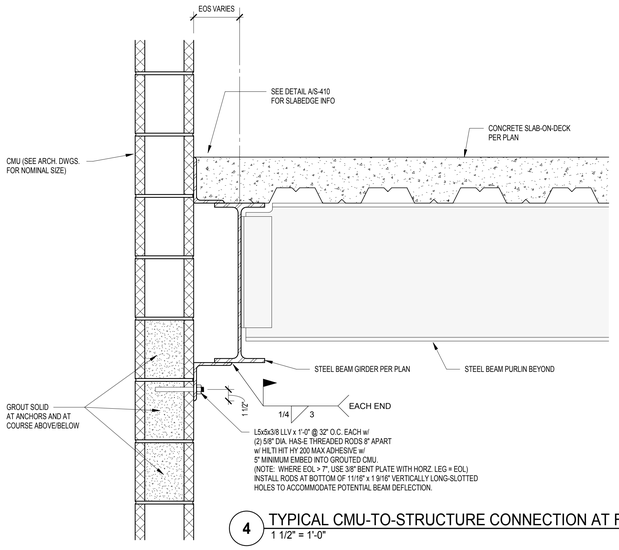


SECTION 5 WHERE NOTED "SIM." ON ROOF FRAMING PLANS

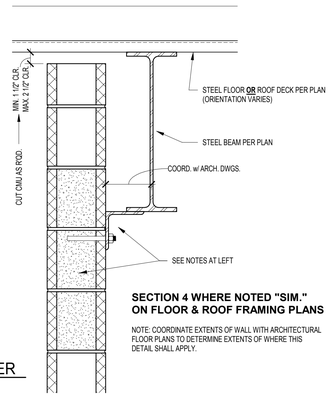
NOTE: COORDINATE EXTENTS OF WALL WITH ARCHITECTURAL FLOOR PLANS TO DETERMINE EXTENTS OF WHERE THIS DETAIL SHALL APPLY.



D TYPICAL EXPANSION JOINT DETAILS
1 1/2" = 1'-0"

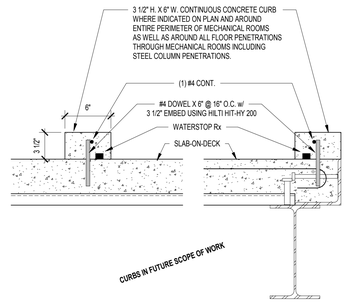


4 TYPICAL CMU-TO-STRUCTURE CONNECTION AT FLOOR GIRDER
1 1/2" = 1'-0"

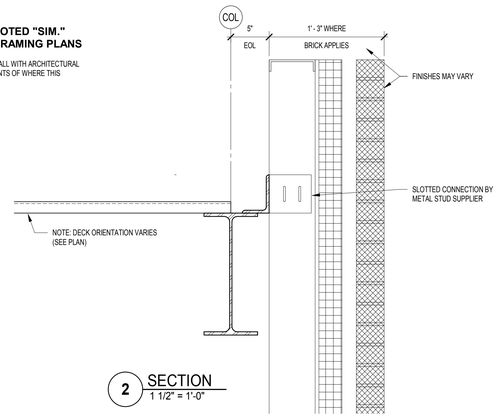


SECTION 4 WHERE NOTED "SIM." ON FLOOR & ROOF FRAMING PLANS

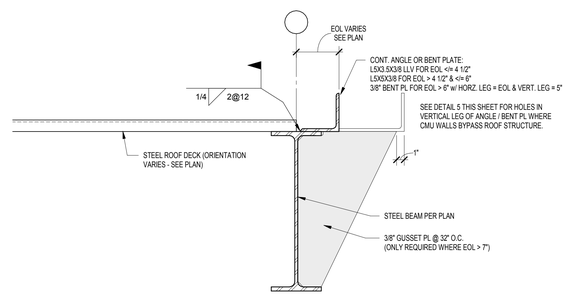
NOTE: COORDINATE EXTENTS OF WALL WITH ARCHITECTURAL FLOOR PLANS TO DETERMINE EXTENTS OF WHERE THIS DETAIL SHALL APPLY.



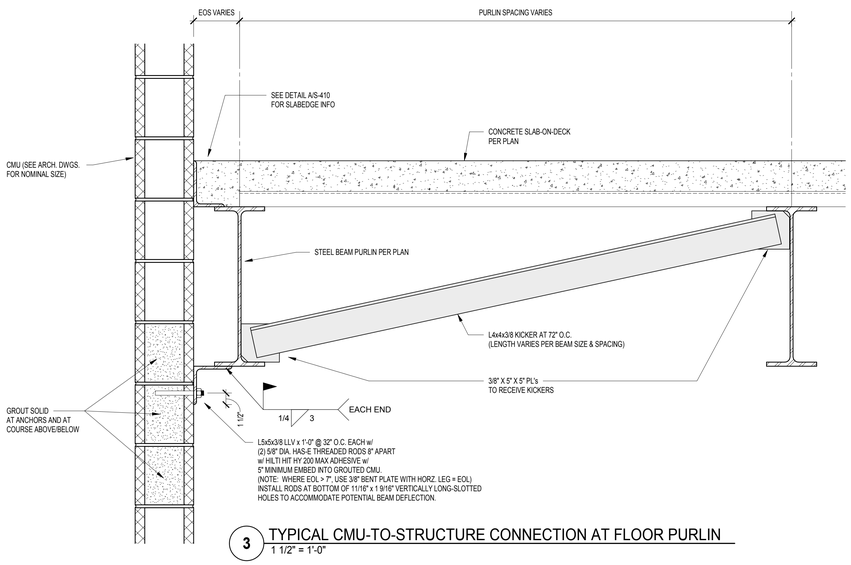
C TYPICAL CONCRETE CURB DETAILS
1 1/2" = 1'-0"



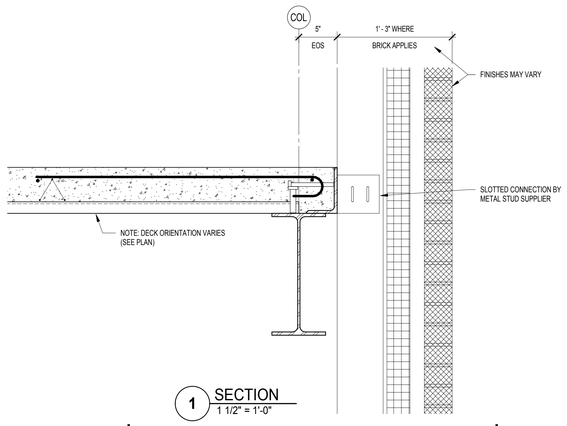
2 SECTION
1 1/2" = 1'-0"



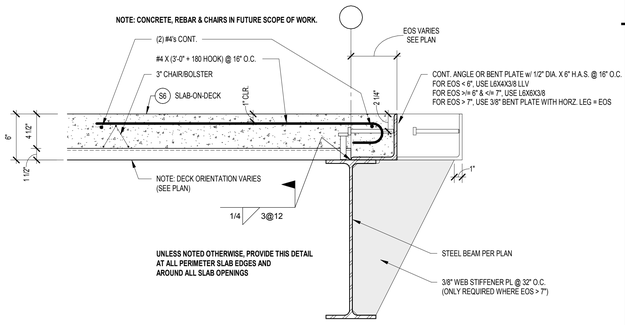
B TYPICAL ROOF EDGE DETAIL
1 1/2" = 1'-0"



3 TYPICAL CMU-TO-STRUCTURE CONNECTION AT FLOOR PURLIN
1 1/2" = 1'-0"



1 SECTION
1 1/2" = 1'-0"



A TYPICAL SLAB EDGE DETAIL
1 1/2" = 1'-0"

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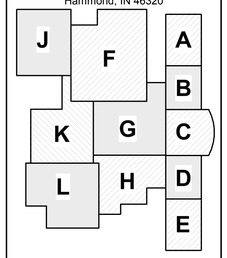


KEY PLAN

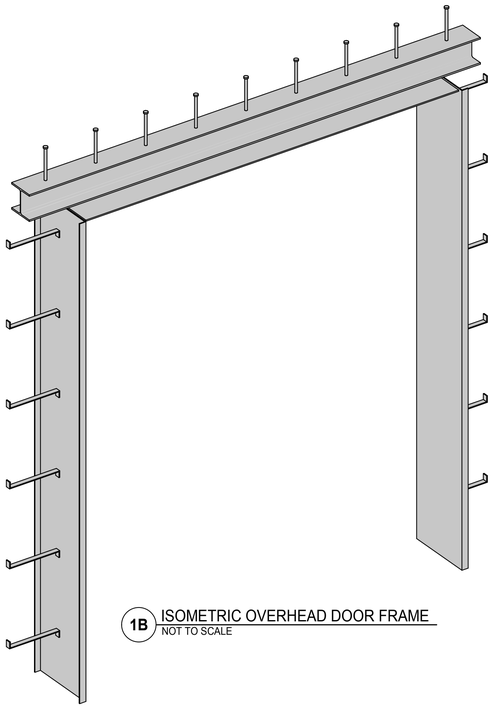
School City of Hammond

School City of Hammond

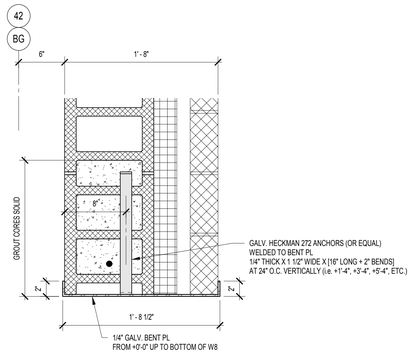
Hammond Middle High School

FRAMING SECTIONS AND DETAILS

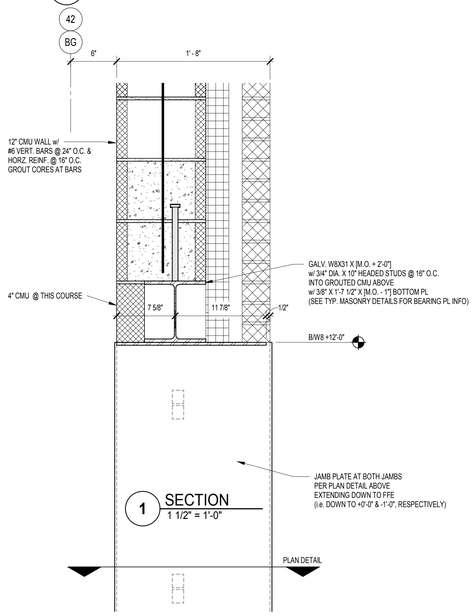
S-410.1



1B ISOMETRIC OVERHEAD DOOR FRAME
NOT TO SCALE



1A OVERHEAD DOOR JAMB PLAN DETAIL
1 1/2" = 1'-0"



1 SECTION
1 1/2" = 1'-0"

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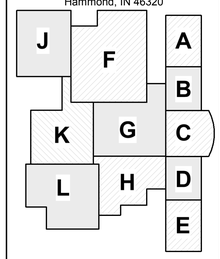


KEY PLAN

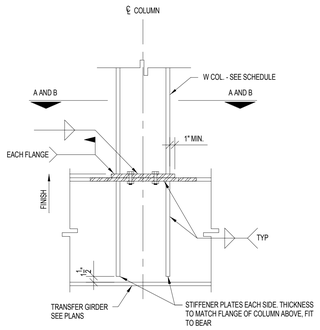
School City of Hammond

School City of Hammond

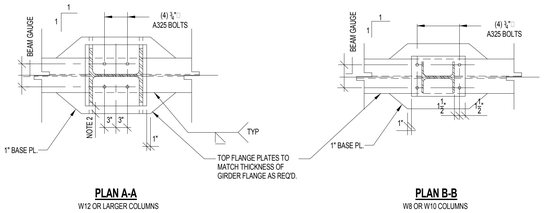
Hammond Middle High School

FRAMING SECTIONS AND DETAILS

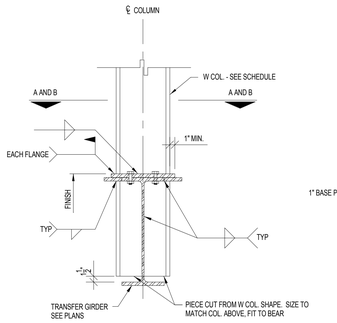
S-411.1



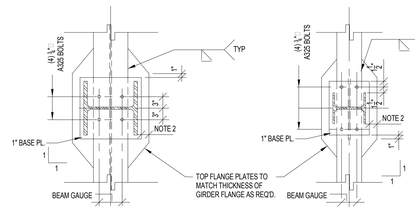
20 TYPICAL COLUMN TRANSFER WITH WEB PARALLEL TO BEAM
3/4" = 1'-0"



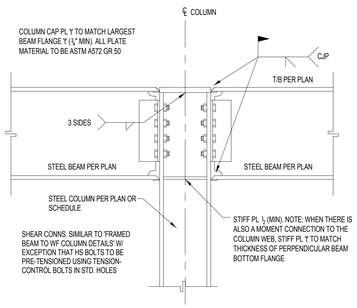
NOTES:
1. TYPICAL FRAMED BEAM CONNECTION NOT SHOWN FOR CLARITY.
2. PROVIDE 2" MINIMUM TYPICAL. REDUCE TO ½" AT EXTERIOR COLUMN LOCATIONS.



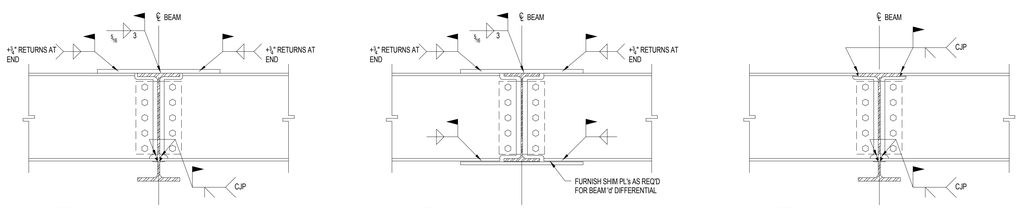
19 TYPICAL COLUMN TRANSFER WITH WEB PERPENDICULAR TO BEAM
3/4" = 1'-0"



NOTES:
1. TYPICAL FRAMED BEAM CONNECTION NOT SHOWN FOR CLARITY.
2. PROVIDE 2" MINIMUM TYPICAL. REDUCE TO ½" AT EXTERIOR COLUMN LOCATIONS.



18 TYPICAL BEAM-TO-WF COLUMN MOMENT CONNECTIONS
3/4" = 1'-0"

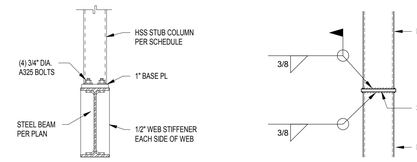


NOTES:
1. SHEAR CONNS. SIMILAR TO 'FRAMED BEAM CONNECTIONS' W/ EXCEPTION THAT HS BOLTS TO BE PRE-TENSIONED USING TENSION-CONTROL BOLTS IN STD HOLES.
2. FLANGE PL & WELDS AS REQ'D TO DEVELOP DESIGN MOMENT CAPACITY. DESIGN NARROWER THAN BEAM FLANGE TO FACILITATE WELDING.

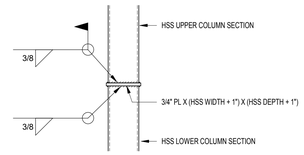
NOTES:
1. SHEAR CONNS. SIMILAR TO 'FRAMED BEAM CONNECTIONS' W/ EXCEPTION THAT HS BOLTS TO BE PRE-TENSIONED USING TENSION-CONTROL BOLTS IN STD HOLES.
2. FLANGE PL'S & WELDS AS REQ'D TO DEVELOP DESIGN MOMENT CAPACITY. DESIGN TOP PL NARROWER & BOTTOM PL WIDER THAN BEAM FLANGES TO FACILITATE WELDING.

NOTES:
1. SHEAR CONNS. SIMILAR TO 'FRAMED BEAM CONNECTIONS' W/ EXCEPTION THAT HS BOLTS TO BE PRE-TENSIONED USING TENSION-CONTROL BOLTS IN STD HOLES.

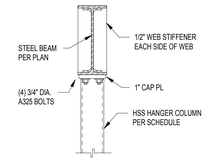
17 TYPICAL BEAM-TO-BEAM MOMENT CONNECTIONS
3/4" = 1'-0"



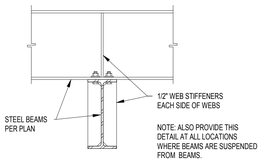
21 TYP. HSS STUB COLUMN ON BEAM
3/4" = 1'-0"



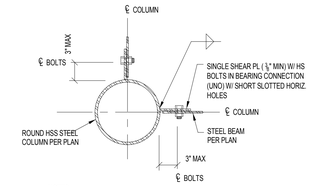
16 TYP. HSS COL SPLICE
3/4" = 1'-0"



15 TYP. HSS HANGER FROM BEAM
3/4" = 1'-0"

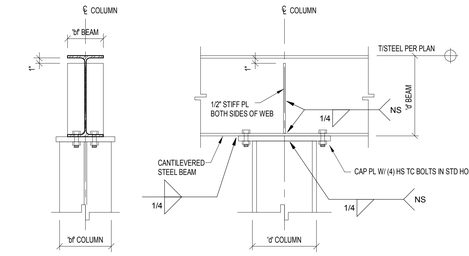


10 TYP. BEAM CANTILEVERED OVER BEAM
3/4" = 1'-0"



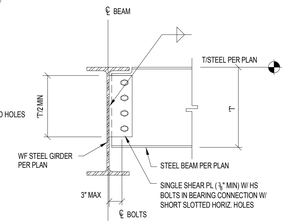
NOTES:
1. DESIGN CONNECTION TO DEVELOP 100% OF BEAM REACTION.
2. PROVIDE SHEAR PL AT LEAST ONE HALF THE DEPTH OF THE FRAMED BEAM.

5 TYP. BEAM CONN TO ROUND HSS COL
3/4" = 1'-0"



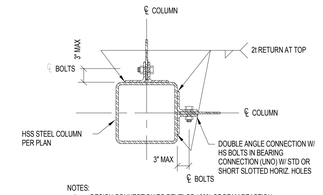
NOTES:
1. MIN. CAP/BASE PL WIDTH TO BE WIDTH OF COLUMN OR BEAM (bf), WHICHEVER IS GREATER +2".
2. MIN. CAP/BASE PL LENGTH TO BE DEPTH OF COLUMN (d) +6" UNLESS LONGER PL IS REQ'D. FOR BEARING/CRIPPLING OR BOLT CLEARANCES.
3. CAP/BASE PL THICKNESS TO BE EQUAL TO OR GREATER THAN COLUMN OR BEAM FLANGE THICKNESS (tf) WHICHEVER IS GREATER WITH A MINIMUM 'Y' OF 1".
4. STIFF PL MAY DOUBLE AS SHEAR PL FOR CONNECTION OF PERPENDICULAR BEAM WHERE OCCURS. OFFSET PL AS REQ'D TO MAINTAIN BEAM ON COLUMN GRID UNO.
5. HSS COLUMNS SIMILAR, EXCEPT WELD ALL AROUND BTWN COLUMN & CAP PL.

14 TYPICAL BEAM CONTINUOUS OVER COLUMN
3/4" = 1'-0"



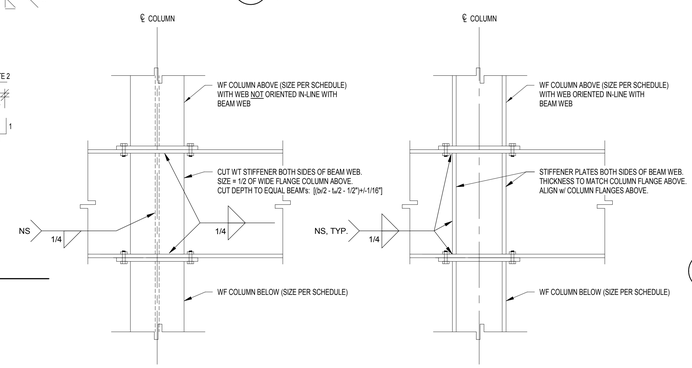
NOTE: DESIGN CONNECTION TO DEVELOP 100% OF BEAM REACTION.

9 ALT. BEAM CONN TO INTERIOR GIRDER
3/4" = 1'-0"

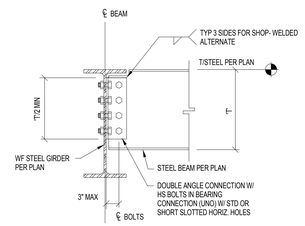


NOTES:
1. DESIGN CONNECTION TO DEVELOP 100% OF BEAM REACTION.
2. PROVIDE DOUBLE ANGLES AT LEAST ONE HALF THE DEPTH OF THE FRAMED BEAM.

4 TYP. BEAM CONN TO HSS COL OVER 7"
3/4" = 1'-0"

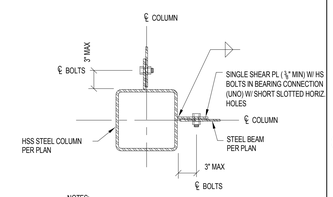


13 TYPICAL INTERRUPTED COLUMN AT BEAM
3/4" = 1'-0"



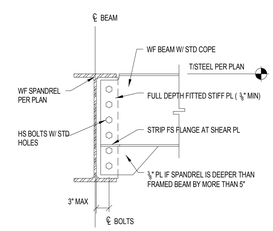
NOTE: DESIGN CONNECTION TO DEVELOP 100% OF BEAM REACTION.

8 TYP. BEAM CONN TO INTERIOR GIRDER
3/4" = 1'-0"



NOTES:
1. DESIGN CONNECTION TO DEVELOP 100% OF BEAM REACTION.
2. PROVIDE SHEAR PL AT LEAST ONE HALF THE DEPTH OF THE FRAMED BEAM.

3 TYP. BEAM CONN TO HSS COL UP TO 7"
3/4" = 1'-0"

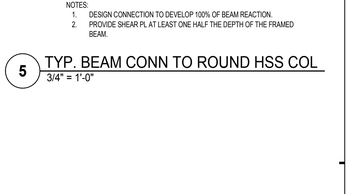


NOTES:
1. DESIGN CONNECTION TO DEVELOP 100% OF BEAM REACTION.
2. PROVIDE CONNECTION AT OPPOSITE END OF FRAMED BEAM W/ SHORT-SLOTTED HORIZ HOLES.

12 ALT. BEAM CONN TO PERIMETER GIRDER
3/4" = 1'-0"

NOTES:
1. DESIGN CONNECTION TO DEVELOP 100% OF BEAM REACTION.
2. PROVIDE SHEAR PL AT LEAST ONE HALF THE DEPTH OF THE FRAMED BEAM.

7 TYP. SKEWED BEAM CONN
3/4" = 1'-0"

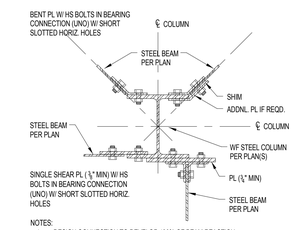


NOTES:
1. DESIGN CONNECTION TO DEVELOP 100% OF BEAM REACTION.
2. SINGLE SHEAR PL NO PERMITTED AT COLUMN WEB.
3. PROVIDE SHEAR PL AT LEAST ONE HALF THE DEPTH OF THE FRAMED BEAM.

2 ALT. BEAM CONN TO WF COL
3/4" = 1'-0"

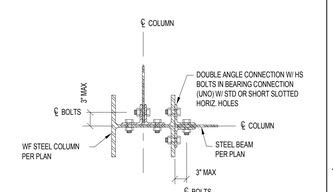
NOTES:
1. DESIGN CONNECTION TO DEVELOP 100% OF BEAM REACTION.

11 TYP. BEAM CONN TO PERIMETER GIRDER
3/4" = 1'-0"



NOTES:
1. DESIGN CONNECTION TO DEVELOP 100% OF BEAM REACTION.
2. LENGTH OF BENT PL AND SHEAR PL SHALL BE AT LEAST ONE HALF THE DEPTH OF THE FRAMED BEAM.

6 TYP. OFFSET & SKEWED BEAM CONN TO WF COL
3/4" = 1'-0"



NOTES:
1. DESIGN CONNECTION TO DEVELOP 100% OF BEAM REACTION.
2. PROVIDE ERECTION SEAT OR OFFSET ANGLES WHERE REQUIRED BY OSHA.
3. PROVIDE DOUBLE ANGLES AT LEAST ONE HALF THE DEPTH OF THE FRAMED BEAM.
4. SHOP-BOLTED, FIELD-BOLTED CONN. SHOWN. SHOP-WELDED, FIELD-BOLTED CONNECTIONS ARE ACCEPTABLE ALTERNATE.

1 TYP. BEAM CONN TO WF COL
3/4" = 1'-0"

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Project No. 2017-105.MHS
Project Date 09.06.2018
Produced RMD

WESLEY B. HAMISON
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Indiana
PROFESSIONAL ENGINEER

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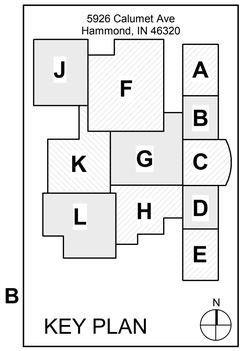
#	Revision	Date

5926 Calumet Ave
Hammond, IN 46320



KEY PLAN

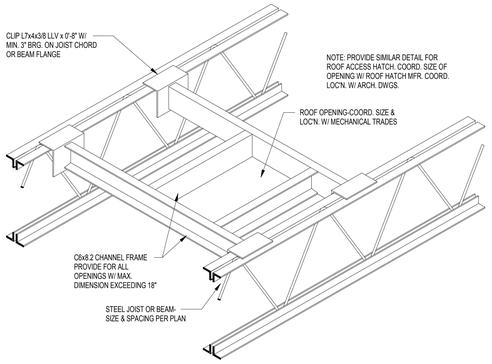
School City of Hammond

School City of Hammond

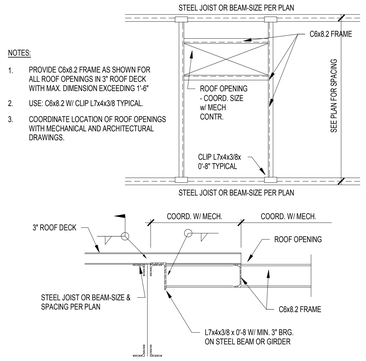
Hammond Middle High School

TYPICAL STEEL CONNECTION DETAILS

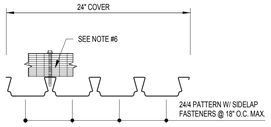
S-500.1



16 ROOF OPENING FRAME 3" DECK (PERSPECTIVE)
3/4" = 1'-0"



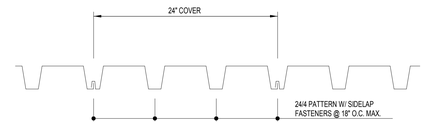
15 ROOF OPENING FRAME 3" DECK (SECTION)
3/4" = 1'-0"



NOTE:

1. 2 1/2", 20 GA. TORIS ROOF DECK BY EPIC METALS, G90 GALV. AND w/ EPIC'S "NATACOAT" SYSTEM.
2. SUPPORT FASTENERS SHALL BE HILTI X-HSN-24 POWDER ACTUATED FASTENERS FOR STEEL SUBTRATE THICKNESSES BETWEEN 1/8" AND 3/8" (TYPICALLY JOISTS), AND HILTI X-ENP-19 FOR STEEL SUBSTRATE THICKNESSES GREATER THAN 1/4" (TYPICALLY BEAMS).
3. SIDELAP FASTENERS SHALL BE HILTI SLC-01 SIDELAP CONNECTORS.
4. SUBMIT FASTENER TECHNICAL DATA FOR REVIEW.
5. TORIS DECK SHALL RECEIVE EPIC'S "NATACOAT" FINISH CONSISTING OF A HOT-DIP PROTECTIVE COATING OF ZINC CONFORMING TO ASTM A924, CLASS G90. STEEL SHALL BE CLEANED & CHEMICALLY TREATED & THEN PAINTED WITH A 2 MIL EPOXY PRIMER FOLLOWED BY A 5 MIL POLYESTER TOP COAT PRIMER OR A 7 MIL POLYESTER OVEN BAKED & CURED.
6. COORD. ROOFING ATTACHMENTS W/ DIVISION 7 CONTRACTOR SO THAT ALL FASTENERS ATTACH TO THE TOP (NARROW) FLANGE OF THE DECK. I.E. NO EXPOSED FASTENERS PERMITTED IN THE FINISHED STRUCTURE.
7. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
8. REF. DECK TYPE — E2.5 — ON THE FRAMING PLANS.

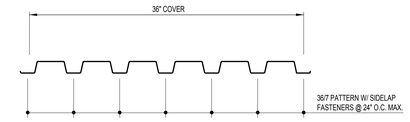
14 2 1/2" TORIS ROOF DECK
3/4" = 1'-0"



NOTE:

1. 3", 20 GA. DEEP RIB STEEL ROOF DECK. CLEAN & TREAT AND PRIME-PAINT BOTH SIDES.
2. SUPPORT FASTENERS SHALL BE HILTI X-HSN-24 POWDER ACTUATED FASTENERS FOR STEEL SUBTRATE THICKNESSES BETWEEN 1/8" AND 3/8" (TYPICALLY JOISTS), AND HILTI X-ENP-19 FOR STEEL SUBSTRATE THICKNESSES GREATER THAN 1/4" (TYPICALLY BEAMS).
3. SIDELAP FASTENERS SHALL BE HILTI SLC-01 SIDELAP CONNECTORS.
4. SUBMIT FASTENER TECHNICAL DATA FOR REVIEW.
5. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
6. REF. DECK TYPE — R3 — ON THE FRAMING PLANS.

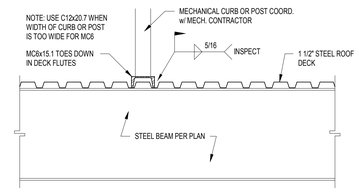
13 3" TYPE N STEEL ROOF DECK
3/4" = 1'-0"



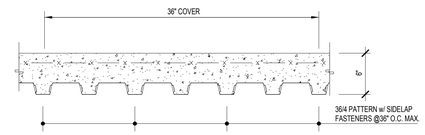
NOTES:

1. 1 1/2", 18 GA. TYPE B, WIDE RIB STEEL ROOF DECK. CLEAN & TREAT AND PRIME-PAINT BOTH SIDES.
2. SUPPORT FASTENERS SHALL BE HILTI X-HSN-24 POWDER ACTUATED FASTENERS FOR STEEL SUBTRATE THICKNESSES BETWEEN 1/8" AND 3/8" (TYPICALLY JOISTS), AND HILTI X-ENP-19 FOR STEEL SUBSTRATE THICKNESSES GREATER THAN 1/4" (TYPICALLY BEAMS).
3. SIDELAP FASTENERS SHALL BE HILTI SLC-01 SIDELAP CONNECTORS.
4. SUBMIT FASTENER TECHNICAL DATA FOR REVIEW.
5. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
6. REF. DECK TYPE — R1.5 — ON THE FRAMING PLANS.

5 1 1/2" TYPE B WIDE-RIB STEEL ROOF DECK
3/4" = 1'-0"



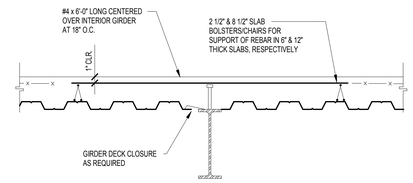
8 ROOFTOP EQUIPMENT SUPPORT DETAIL
3/4" = 1'-0"



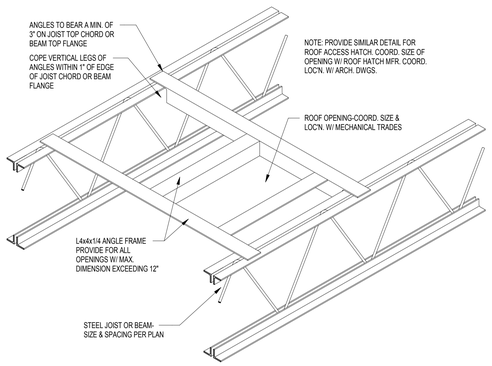
NOTES:

1. 1 1/2", 18 GA. GALVANIZED COMPOSITE STEEL FLOOR DECK.
2. WELD DECK TO SUPPORTING STRUCTURE USING 3/4" DIAMETER WELDS OR HILTI X-ENP-19 POWDER ACTUATED FASTENERS. COMPOSITE SHEAR CONNECTORS MAY TAKE THE PLACE OF WELDS.
3. MECHANICALLY FASTEN SIDELAPS @ 36" O.C. MAX. w/ #10 TEK SCREWS OR HILTI SLC-01 SIDELAP CONNECTORS.
4. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
5. REF. DECK TYPE — S6 — ON THE FRAMING PLANS.

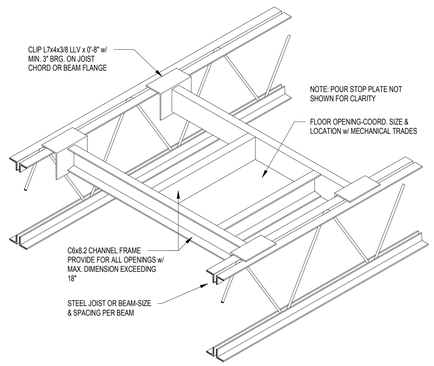
4 1 1/2" COMPOSITE STEEL DECK & SLAB
3/4" = 1'-0"



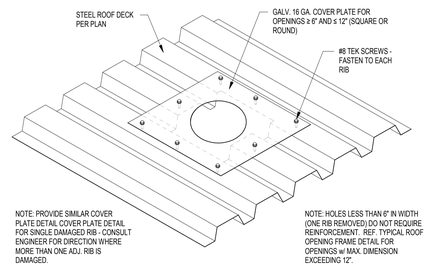
3 TYPICAL SLAB REINFORCING OVER INTERIOR GIRDER
3/4" = 1'-0"



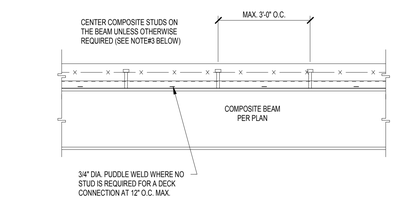
12 ROOF OPENING FRAME 1 1/2" DECK (PERSPECTIVE)
3/4" = 1'-0"



10 FLOOR OPENING FRAME (PERSPECTIVE)
3/4" = 1'-0"

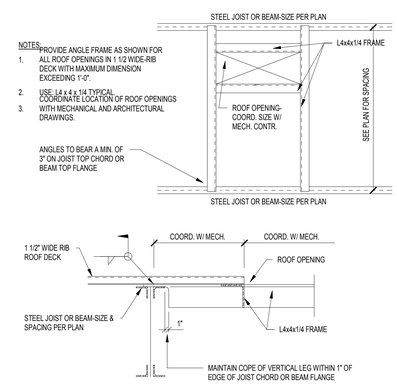


7 SMALL ROOF OPENING DETAIL
3/4" = 1'-0"

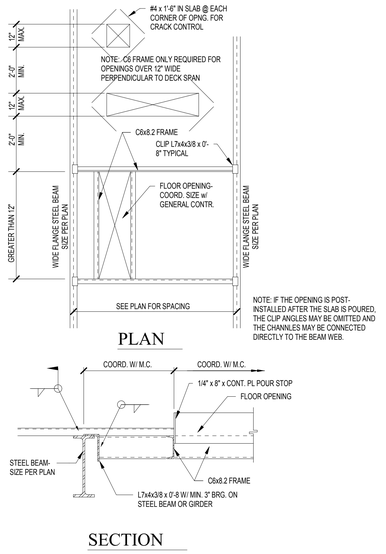


1. THE MIN. NUMBER OF STUDS FOR EACH BEAM IS SHOWN ON THE FRAMING PLAN.
2. SPACE STUDS AS EVENLY AS POSSIBLE IN AVAILABLE DECK FLUTES. WHERE STUD SPACING EXCEEDS THE MAX. SPACING ALLOWED, PROVIDE ADDITIONAL STUDS TO SATISFY THE SPACING REQUIREMENTS.
3. WHERE THE NUMBER OF STUDS EXCEEDS THE NUMBER OF FLUTES, PROVIDE TWO STUDS IN EVERY OTHER FLUTE, STARTING AT EACH END OF THE BEAM. THE TRANSVERSE SPACING BETWEEN TWO STUDS IN A SINGLE FLUTE SHALL BE 3", UNLESS NOTED OTHERWISE.
4. PLACE ANY NATURAL BEAM CAMBER UP.

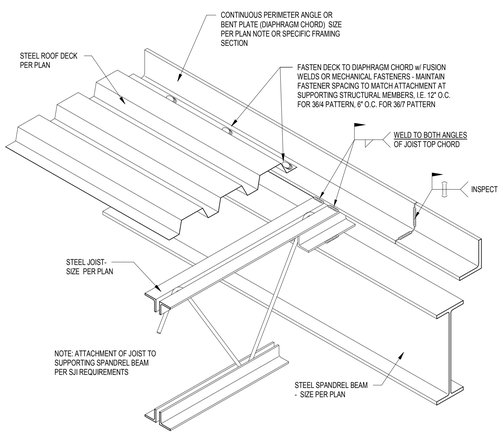
2 STUD INSTALLATION ON GIRDER DETAIL
3/4" = 1'-0"



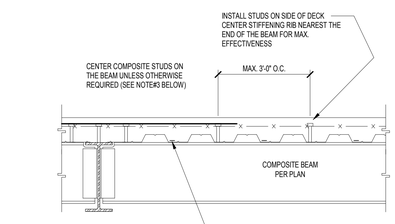
11 ROOF OPENING FRAME 1 1/2" DECK (SECTION)
3/4" = 1'-0"



9 FLOOR OPENING FRAME (SECTION)
3/4" = 1'-0"



6 CONTINUOUS ROOF PERIMETER DETAIL
3/4" = 1'-0"



1. THE MIN. NUMBER OF STUDS FOR EACH BEAM IS SHOWN ON THE FRAMING PLAN.
2. SPACE STUDS AS EVENLY AS POSSIBLE IN AVAILABLE DECK FLUTES. WHERE STUD SPACING EXCEEDS THE MAX. SPACING ALLOWED, PROVIDE ADDITIONAL STUDS TO SATISFY THE SPACING REQUIREMENTS.
3. WHERE THE NUMBER OF STUDS EXCEEDS THE NUMBER OF FLUTES, PROVIDE TWO STUDS IN EVERY OTHER FLUTE, STARTING AT EACH END OF THE BEAM. THE TRANSVERSE SPACING BETWEEN TWO STUDS IN A SINGLE FLUTE SHALL BE 3", UNLESS NOTED OTHERWISE.
4. PLACE ANY NATURAL BEAM CAMBER UP.

1 STUD INSTALLATION ON PURLIN DETAIL
3/4" = 1'-0"

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Project No. 2017-105.MHS
Project Date 09.06.2018
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WESLEY B. HAMILTON REGISTERED PE60860410 STATE OF Indiana PROFESSIONAL ENGINEER

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#	Revision	Date

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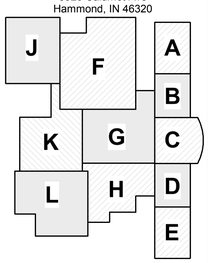


KEY PLAN

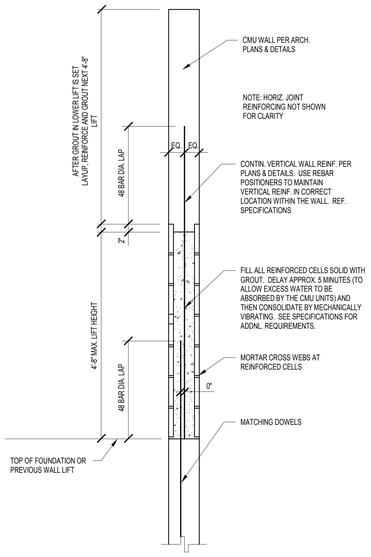
School City of Hammond

School City of Hammond

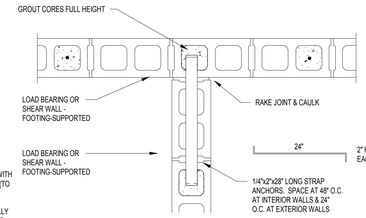
Hammond Middle High School

TYPICAL FRAMING DETAILS

S-501.1

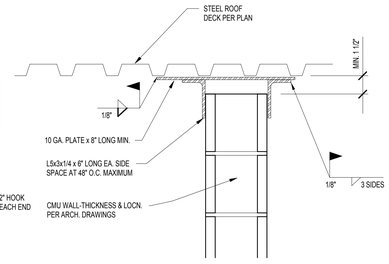


19 LOW-LIFT WALL CONSTRUCTION
3/4" = 1'-0"



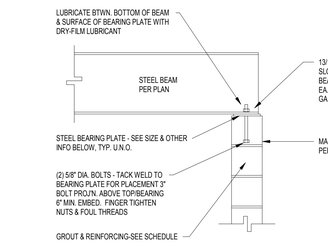
TYPICAL AT INTERSECTION BETWEEN FOOTING-SUPPORTED CMU WALLS

15 WALL INTERSECTION DETAIL
3/4" = 1'-0"



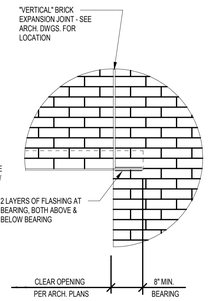
NOTE: PROVIDE THIS DETAIL WHERE DISTANCE BTWN. INTERSECTING WALL, PILASTER, OR CORNER EXCEEDS 30 x THE NOMINAL WALL THICKNESS. COORDINATE w/ ARCH. FLOOR PLANS

11 CMU LATERAL SUPPORT DETAIL (DECK)
3/4" = 1'-0"

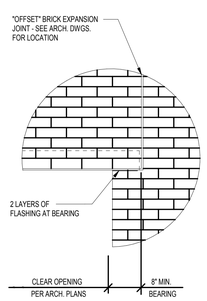


BEARING PLATE SIZE	GROUT REQUIREMENTS	REINFORCING
3/4 x 6 1/2 x 1'-0	MIN. 3 COURSES DEEP x 24" LONG	NONE UNLESS LOCATED AT DISCONTIN. END OF WALL. EXTEND GROUT FULL HT. & REINF. SIM. TO MARK "B"

9 BEAM BEARING PLATE DETAIL (PERP.)
3/4" = 1'-0"



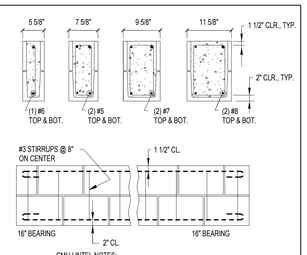
AT "VERTICAL" BRICK EXPANSION JOINT



AT "OFFSET" BRICK EXPANSION JOINT

NOTE: LIMESTONE LINTELS ARE SIMILAR.

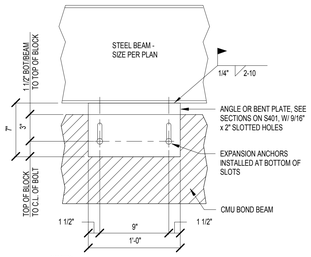
7 LINTEL BEARING DETAILS
3/4" = 1'-0"



CMU LINTEL NOTES:

1. FILL IS 2,500 PSI (MINIMUM) GROUT.
2. ALL REBARS ARE HOOKED AT THE ENDS.
3. FOR TYPE OF CMU SEE THE SPECS.
4. LINTELS SHALL BEAR ON SOLIDLY GROUTED CMU.
5. THIS SCHEDULE DOES NOT APPLY TO LOAD BEARING WALLS, UNLESS NOTED OTHERWISE.
6. BOND PATTERN OF LINTEL TO BE RUNNING BOND, U.N.O.
7. BOTTOM OF LINTEL SHALL BE SMOOTH MASONRY WITH NO CORES EXPOSED.
8. CONTRACTOR TO PROVIDE TEMPORARY SHORING UNTIL MASONRY HAS PROPERLY SET (3 DAY MINIMUM).

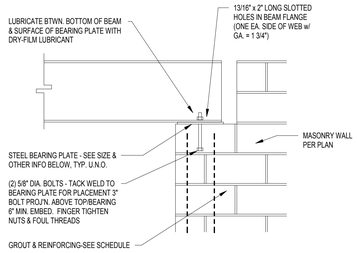
4 LONG CMU LINTEL DETAILS
3/4" = 1'-0"



NOTES:

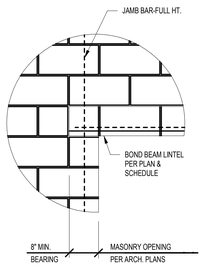
1. ALL EXPANSION ANCHORS ARE 1/2" DIA. x 4" HILTI SLEEVE ANCHORS (ALLOW. TEN. = 610 LBS., ALLOW SHEAR=910 LBS.).
2. EQUIVALENT SLEEVE ANCHORS MAY BE SUBSTITUTED WITH APPROVAL.
3. TORQUE ANCHOR TO 30 FT.-LB, THEN BACK OFF ONE TURN AND FOUL THREADS, OR DOUBLE NUT.
4. VERTICAL LEG OF ANGLE SHALL BE PAINTED, HORIZONTAL LEG SHALL BE UNPAINTED.
5. ANGLE/PLATE SPACING SHALL BE 48" O.C. U.N.O.
6. VERTICAL LEG OF ANGLE AND PLATE SHALL BUTT TIGHT AGAINST MASONRY.

10 CMU LATERAL SUPPORT DETAIL (BEAM - ELEV.)
3/4" = 1'-0"

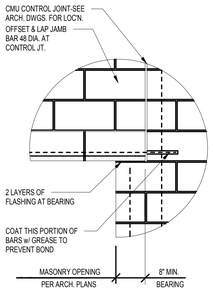


BEARING PLATE SIZE	GROUT REQUIREMENTS	REINFORCING
3/4 x 6 1/2 x 1'-0	GROUT SOLID TO FTG. x 24" LONG	2 VERTICALS FULL HEIGHT OF WALL. SEE PLANS & DETAILS FOR SIZE.

8 BEAM BEARING PLATE DETAIL (PARALLEL)
3/4" = 1'-0"

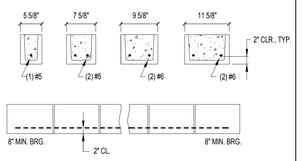


NOT AT CONTROL JOINT



AT CONTROL JOINT

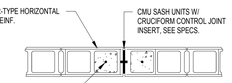
6 BOND BEAM BEARING DETAILS
3/4" = 1'-0"



CMU LINTEL NOTES:

1. FILL IS 2,500 PSI (MINIMUM) GROUT.
2. PROVIDE 1" BRG. PER FOOT OF SPAN WITH 8" MIN.
3. LINTELS SHALL BEAR ON SOLIDLY GROUTED CMU
4. THIS SCHEDULE DOES NOT APPLY TO LOAD BEARING WALLS, UNLESS NOTED OTHERWISE.
5. BOND PATTERN OF LINTEL TO BE RUNNING BOND, U.N.O.
6. BOTTOM OF LINTEL SHALL BE SMOOTH MASONRY WITH NO CORES EXPOSED.
7. CONTRACTOR TO PROVIDE TEMPORARY SHORING UNTIL MASONRY HAS PROPERLY SET (3 DAY MINIMUM.)
8. PRECAST LINTELS MAY NOT BE SUBSTITUTED FOR BOND BEAM LINTELS.

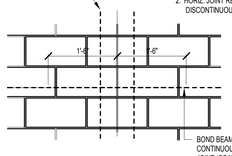
3 CMU LINTEL DETAILS
3/4" = 1'-0"



PLAN

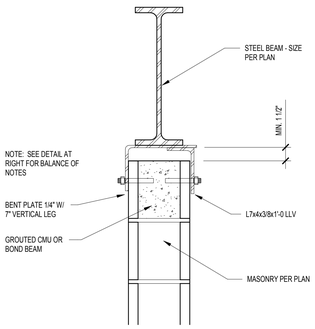
NOTE:

1. BOND BEAM REINFORCEMENT SHALL NOT BE LAPPED WITHIN 8'-0" OF CONTROL JOINT.
2. HORIZ. JOINT REINFORCEMENT TO BE DISCONTINUOUS AT CONTROL JOINTS.

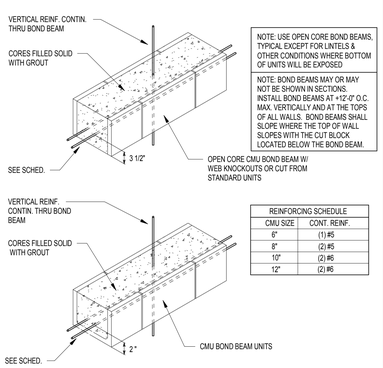


ELEVATION

18 CMU CONTROL JOINT DETAIL
3/4" = 1'-0"



14 CMU LATERAL SUPPORT DETAIL (BEAM - SECTION)
3/4" = 1'-0"

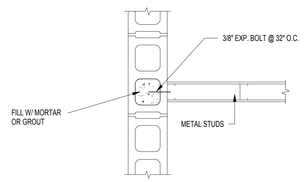


NOTE: USE OPEN CORE BOND BEAMS, TYPICAL EXCEPT FOR LINTELS & OTHER CONDITIONS WHERE BOTTOM OF UNITS WILL BE EXPOSED

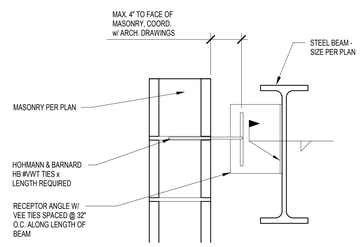
NOTE: BOND BEAMS MAY OR MAY NOT BE SHOWN IN SECTIONS. INSTALL BOND BEAMS AT +12'-0" O.C. MAX. VERTICALLY AND AT THE TOPS OF ALL WALLS. BOND BEAMS SHALL SLOPE WHERE THE TOP OF WALL SLOPES WITH THE CUT BLOCK LOCATED BELOW THE BOND BEAM.

REINFORCING SCHEDULE	
CMU SIZE	CONT. REINF.
6"	(1) #5
8"	(2) #5
10"	(2) #6
12"	(2) #6

2 CMU BOND BEAM DETAILS
3/4" = 1'-0"

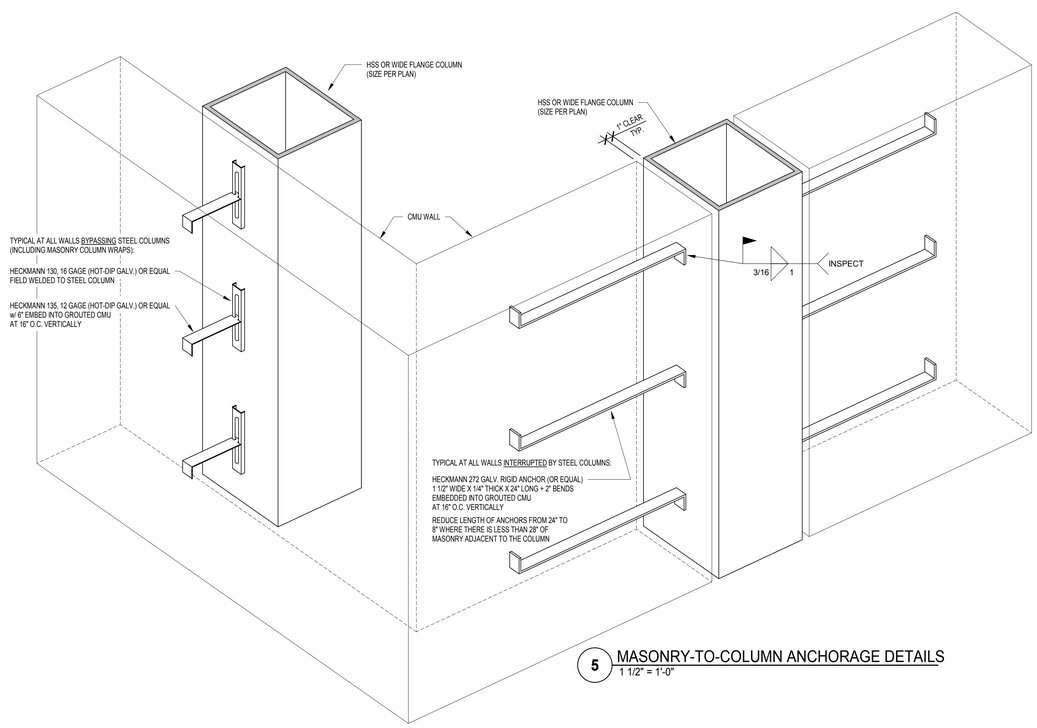


17 CMU WALL - STEEL STUD WALL
3/4" = 1'-0"

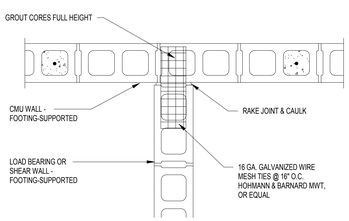


NOTE: WHERE THE DIMENSION BETWEEN THE ANCHOR SECTION & THE VEE TIE IS LESS THAN 4", OMIT THE RECEPTOR ANGLE AND USE A CRIMPED WIRE WELD-ON ANCHOR SIM. TO HB#359 PROVIDE FLEXIBLE ANCHORS/TIES ON ALL BEAMS THAT COME IN CONTACT OR BYPASS MASONRY, TYPICAL U.N.O.

13 ADJUSTABLE FLEXIBLE TIE DETAIL
3/4" = 1'-0"

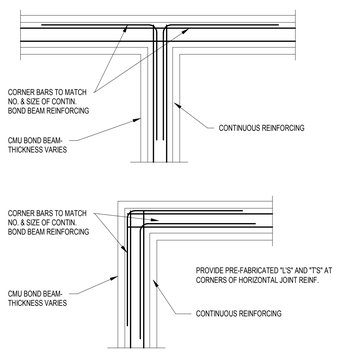


5 MASONRY-TO-COLUMN ANCHORAGE DETAILS
1 1/2" = 1'-0"

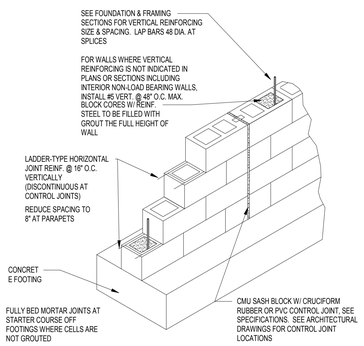


TYP. AT INTERSECTION BETWEEN FOOTING-SUP'TD. AND THICKENED SLAB-SUPPORTED CMU WALLS

16 WALL INTERSECTION DETAILS
3/4" = 1'-0"



12 BOND BEAM INTERSECTION DETAILS
3/4" = 1'-0"



1 REINFORCED MASONRY DETAIL
3/4" = 1'-0"

SCHMIDT ASSOCIATES
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Indianapolis, IN 46204
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Project No. 2017-105.MHS
Project Date 09.06.2018
Produced RMD

WESLEY B. HAMISON
REGISTERED
PE60860410
STATE OF INDIANA
PROFESSIONAL ENGINEER

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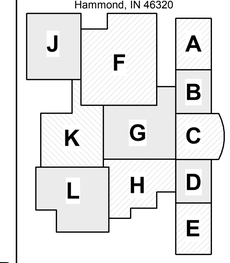
#	Revision	Date

5926 Calumet Ave
Hammond, IN 46320



KEY PLAN

School City of Hammond

School City of Hammond

Hammond Middle High School

TYPICAL MASONRY DETAILS

S-502.1

GENERAL NOTES

1. The Contractor shall be responsible for complying with all safety precautions and regulations during the work. The Engineer will not advise on, nor issue direction as to safety precautions and programs.
2. The Structural Drawings herein represent the finished structure. The Contractor shall provide all temporary guying and bracing required to erect and hold the structure in proper alignment until all Structural Work and connections have been completed. The investigation, design, safety, adequacy and inspection of erection bracing, shoring, temporary supports, etc. is the sole responsibility of the Contractor.
3. The Engineer shall not be responsible for the methods, techniques and sequences are not specifically shown, similar details of construction shall be used, subject to approval of the Engineer.
4. Drawings indicate general and typical details of construction. Where conditions are not specifically shown, similar details of construction shall be used, subject to approval of the Engineer.
5. All structural systems which are to be composed of components to be field erected shall be supervised by the Supplier during manufacturing, delivery, handling, storage, and erection in accordance with the Supplier's instructions and requirements.
6. Loading applied to the structure during the process of construction shall not exceed the safe load-carrying capacity of the structural members. The live loading used in the design of this structure are indicated in the "Design Criteria Notes." Do not apply any construction loads until structural framing is properly connected together and until all temporary bracing is in place.
7. All ASTM and other referenced standards and codes are for the latest editions of these publications, unless otherwise noted.
8. Shop drawings and other items shall be submitted to the Engineer for review prior to fabrication. All Shop Drawings shall be reviewed by the Contractor before submittal. The Engineer's review is to be fore conformance with the design concept and general compliance wiht the relevant Contract Documents. The Engineer's review does not relieve the Contractor of the sole responsibility to review, check, and coordinate the Shop Drawings prior to submission. The Contractor remains solely responsible for errors and omissions assocated with the preparation of Shop Drawings as they pertain to member sizes, details, dimensions, etc.
9. Submit Shop Drawings in the form of blueline/blackline prints (min. 2 sets/ max. 5 sets) and one reproducible blackline or sepia copy. In no case shall reproductions of the Contract Documents be used as shop drawings. As a minimum, submit the following items for review.
   - A. Concrete Mix Design(s).
   - B. Reinforcing Steel Shop Drawings.
   - C. Structural Steel Shop Drawings.
   - D. Steel Joists and Joist Girder Shop Drawings.
   - E. Steel Deck Shop Drawings.
10. When calculations are included in the submittals for components of work designed and certified by a Specialty Structural Engineer, the reivew by the Structural Engineer of Record (SER) shall be for conformance with the relevant Contract Documents. The SER's review does not relieve teh Specialty Structural Engineer from responsiblity for the design of the system(s) and teh coordination with the elements of the structure under the certification of the Engineer of Record, or other Specialty Structural Engineer. The SER's review does not constitute a warranty of the accuracy or completeness of the Specialty Structural Engineer's design.
11. Contractors shall visit the site prior to bid to ascertain conditions which may adversely affect the work or cost thereof.
12. No structural member may be cut, notched, or otherwise reduced in strength without written direction from the Engineer of Record.
13. When modifications are proposed to structural elements under the design and certification of a Specialty Engineer, written authorization by the Specialty Engineer must be obtained and submitted to the Engineer of Record for review, prior to performing the proposed modification.

COORDINATION WITH OTHER TRADES

1. The Contractor shal coordinate and check all dimensions relating to Architectural finishes, mechanical equipment and openings, elevator shafts and overrides, etc. and notify the Architect/Engineer of any discrepancies before proceeding with any work in the area under question.
2. The Structural Drawings shall be used in conjunction with the Drawings of all other disciplines and the Specifications. The Contractor shall verify the requirements of other trades as to sleeves, chases, hangers, inserts, anchors, holes, and other items to be placed or set in the Structural Work.
3. There shall be no vertical or horizontal sleeves set, or holes cut or drilled in any beam or column unless it is shown on the Structural Drawings or approved in writing by the Engineer of Record.
4. Mechanical and electrical openings through supported slabs and walls, 8" diameter, or larger not shown on the Structural Drawings must be approved by the Engineer of Record. Openings less than 8" in diameter shall have at least 1'-0" clear between openings, unless approved in writing by the Engineer of Record.
5. Verify locations and dimensions of mechanical and electrical openings through supported slabs and walls shown on the Structural Drawings with the Mechanical and Electrical Contractors.
6. Do not install conduit in supported slabs, slabs on grade, or concrete walls unless explicitly shown or noted on the Structural Drawings.
7. Do not suspend any items, such as ductwork, mechanical or electrical fixtures, ceilings, etc. from steel roof deck.
8. The Mechanical Contractor shall notify the Engineer of Record of any Mechanical Unit supported by the structure not shown on the Structural Drawings, whose weight is greater than 500 lbs.
9. The Mechanical Contractor shall verify that mechanical units supported by the steel framing are capable of spanning the distance between the supporting members indicated on the Structural Drawings. The Mechanical Contractor shall supply additional support framing as required.
10. If drawings and specifications are in conflict, the most stringent restrictions and requirements shall govern.

FOUNDATIONS

1. Proofroll slab on grade areas with a medium-weight roller or other suitable equipment to check for pockets of soft material hidden beneath a thin crust of better soil. Any unsuitable materials thus exposed should be removed and replaced with compacted, engineered fill as outlined in the specifications. Proofrolling operations shall be monitored by the Testing Agency.
2. All engineered fill beneath slabs and over footings should be compacted to a dry density of at least 98% of the Standard Proctor maximum dry density (ASTM D-698). All fill which shall be stressed by foundation loads shall be 98% (ASTM D-698). Coordinate all fill and compaction operations with the Specifications and the Subsurface Investigation.
3. Compaction shall be accomplished by placing fill in approx. 8" lifts and mechanically compacting each lift to at least the specified minimum dry density. For large areas of fill, field density tests shall be performed for each 3,000 square feet of building area for each lift as necessary to insure adequate compaction is being achieved.
4. New footings shall bear on firm natural soils or well-compacted engineered fill with allowable bearing pressures as follows and as outlined in the Geotechnical Report referenced in #8 below:

COLUMN FOOTINGS	2,500 PSF
WALL FOOTINGS	2,500 PSF

It is essential that the foundations be inspected to insure that all loose, soft or otherwise undesirable material (such as organics, existing fill, etc.) is removed and that the foundation will bear on satisfactory material. The Testing Agency shall inspect the subgade and perform any necessary tests to insure that the actual bearing capacities meet or exceed the design capacities. The Testing Agency shall verify the bearing capacity at each spread column footing and every 10 feet on center for strip footings prior to placement of concrete.

5. Place footings the same day the excavation is performed. If this is not possible, the footings shall be adequately protected against any detrimental change in condition, such as from disturbance, rain and freezing.
6. It is the responsibility of the Contractor and each Sub-Contractor to verify the location of all utilities and services shown, or not shown, and establish safe working conditions before commencing work.
7. The Contractor shall layout the entire building and field verify all dimensions prior to excavation.
8. For information regarding subsurface conditions, refer to the "Report of Geotechnical Exploration" prepared by ATC GROUP SERVICES LLC. (ATC Project No. H504431801) dated July 25, 2018.

DESIGN CRITERIA

1. DESIGN STANDARDS: The intended design standards and/or criteria are as follows:

General	2014 Indiana Building Code (i.e. 2012 International Building Code with Indiana amendments)
Concrete	ACI318
Masonry	ACI 530
Steel	AISC Manual, Allowable Stress Design (ASD)
Steel Joists/Girders	Steel Joist Institute
Steel Deck	Steel Deck Institute
Cold-Formed Metal	AISI-ASD
Wood Framing	NDS
Wood Trusses	TPI
Glu-Lam Construction	AITC

All referenced standards and codes, as well as ASTM numbers are for the latest editions of these publications, unless otherwise noted.

2. DEAD LOADS: Gravity Dead Loads used in the design of the structure are as computed for the materials of construction incorporated into the building, including but not limited to walls, floors, ceilings, stairways, fixed partitions, finishes, cladding and other similar architectural and structural items, as well as mechanical, electrical and plumbing equipment and fixtures, and material handling and fixed service equipment, including the weight of cranes.
3. LIVE LOADS: Gravity Live Loads used in the design of the structure meet, or exceed the following table (IBC, Table 1607.1):

OCCUPANCY OR USE:	Uniform (PSF):	Concentrated (LBS): (See Note 1)
A. All 1st Floor Spaces	100	-
B. Elevated Slabs-on-Deck		
1. Classrooms	40 + 15 Partition	1,000
2. Corridors	80	1,000
3. Media Center	80	1,000
4. Wrestling & Weight Rooms	100	2,000
5. Black Box Control Room	100	-
6. Mechanical	100	-
D. Stairs & Exits		
1. Typical	100	300 on area of 4 sq. in

Note #1: Unless otherwise noted, the indicated concentrated load has been assumed to be uniformly distributed over an area 2.5 feet square.

4. LIVE LOAD REDUCTION: Live load reductions in accordance with IBC 1067.9 have been used with the following exceptions:
   - A. Heavy live loads in excess of 100 PSF have not been reduced except for members supporting 2 or more floors have been reduced by a max. of 20%.
   - B. The live load in passenger car garages have not been reduced except for members supporting 2 or more floors have been reduced by a max. of 20%
   - C. Live loads of 100 PSF or less for public assembly occupancies have not been reduced.
   - D. Live loads for roof members have not been reduced.
   - E. Live loads for the design of one-way slabs have not been reduced.
5. IMPACT DESIGN: The live loads listed in the table above include allowance for impact. Impact has been considered in the design of the following elements:
   - A. Members supporting elevator loads have been increased by 100% for impact.
   - B. Members supporting machinery and moving loads have been increased as follows to allow for impact:

1. Elevator Machinery	100%
2. Light Machinery, Shaft or Motor-Driven	20%
3. Reciprocating Machinery, or Power-Driven units	20%
4. Hangers for Floors or Balconies	33%

6. PARTITION ALLOWANCE: a uniform partition allowance of 15 PSF has been used to account for the load of all floors where partition locations are subject to change, unless the specified live load exceeds 80 PSF.
7. COLLATERAL LOAD: Unless otherwise noted, a minimum uniform collateral load of 10 PSF has been used to account for ductwork, ceilings, sprinklers, lighting, etc. The collateral load is in addition to the weight of mechanical units, larger piping (greater than 4" diameter) and suspended fixtures or equipment that have been specifically accounted for in the design.
8. COLLATERAL LOAD ABOVE MECHANICAL ROOM: A minimum uniform collateral load of 20PSF has been used to account for large ductwork, sprinkler mains, concentrations of piping, and electrical distribution above corridors and mechanical rooms. The collateral load is in addition to the weight of mechanical units and larger piping (greater than 4" diameter) and suspended fixtures or equipment that have been specifically accounted for in the design.
9. ROOF LIVE/SNOW LOADS: Gravity Live Loads used in the design of the roof structure meet or exceed the following table:

A. Snow load	
Ground Snow load, Pg	30 PSF
Flat Roof Snow Load, Pf	23.1 PSF
Snow Exposure Factor, Ce	1.0
Risk Category	III
Importance Factor, Is	1.1
Thermal Factor, Ct	1.0
B. Minimum Roof Live Load	20 PSF
C. Overhang Eaves & Projections (Unheated w/ Ct = 1.2)	28 PSF

   1. Sloped roof snow loads calculated in accordance with Section 7.4, ASCE 7.
   2. Unbalanced roof snow loads calculated in accordance with Section 7.6, ASCE 7. Specialty Engineers must consider unbalanced snow loads in the design of pre-engineered trusses, frames, skylights, curtain walls, cold-formed metal framing, canopies, etc.
   3. Drift loads calculated in accordance with Section 7.7, ASCE 7. Specialty Engineers must consider unbalanced snow loads in the design of pre-engineered trusses, frames, skylights, curtain walls, cold-formed metal framing, canopies, etc.
   4. If applicable, roofs used for roof gardens or assembly purposes have been designed for a minimum live load of 100 PSF.
10. HANDRAILS AND GUARDS

A. Handrail Assemblies and Guards	50 PLF applied in any direction 200 lb. Concentrated applied in any direction (non-concurrent with 50 PLF load)
B. Components, Intermediate Rails, Ballusters, Fillers, Etc.	50 lbs. horizontally applied normal load on an area not to exceed 1 square foot not superimposed with those of handrail assemblies.

11. LATERAL LOADS: Lateral loads were computed using the following criteria:

A. Wind Load	
Basic Wind Speed, V_{ULT} (per ASCE 7-10)	120 MPH
Wind Exposure Category	B
Risk Category (to satisfy FM Global)	III
Importance Factor, Iw (per ASCE 7-10)	1.00
Internal Pressure Coefficient, GCpi	+/- 0.18
B. Seismic Load	
Seismic Design Category	B
Site Classification	D
Risk Category	III
Importance Factor, Ie	1.25
Spectral Response Coeff., S_{DS}	0.144g
Spectral Response Coeff., S_{D1}	0.103g
Analysis Procedure	Equivalent Lateral Force
Response Modification Coefficient, R	R=3

12. SAFETY FACTORS: This structure has been designed with 'Safety Factors' in accordance with accepted principles of structural engineering. The fundamental nature of the 'Safety Factor' is to compensate for uncertainties in the design, fabrication, and erection of structural building components. It is intended that ' Safety Factors' be sued such that the load-carrying capacity of the structure does not fall below the design load and that the building will perform under design load without distress. While the use of 'Safety Factors' implies some excess capacity beyond design load, such excess capacity cannot be adequately predicted and SHALL NOT BE RELIED UPON.

CONCRETE NOTES

1. Details of fabrication of reinforcement, handling and placing of the concrete, construction of forms and placement of reinforcement not otherwise covered by the Plans and Specifications, shall comply with the ACI Code requirements of the latest revised date.
2. Cold weather concreting shall be in accordance with ACI 306.
3. Hot weather concreting shall be in accordance with ACI 305.
4. Unless otherwise noted in the schedules or details, the minimum 28 day compressive strength of the concrete shall be 4000 p.s.i. for all parts of the structure. All concrete shall be regular weight concrete, unless otherwise noted.
5. A certified Testing Agency shall be retained to perform industry standard testing including measurement of slump, air temperature, concrete cylinder testing, etc. to ensure conformance with the Contract Documents. Submit reports to Architect/Engineer.
6. All concrete exposed to the weather shall be air-entrained. All other concrete may be air-entrained or non-air-entrained at the Contractor's option. For surface finishes and other requirements, refer to the Specifications.
7. Finishing of Slabs: After screeding, bull floating and floating operations have been completed, apply final finish as indicated below, and as described in Specification Section 03300 of the Project Manual.

A. Floor Slabs	Hard Trowel Finish
B. Ramps, Stairs & Sidewalks	Broom Finish
C. Surfaces to Receive Topping Slab	None - Float Finish
D. Surfaces to receive thick set mortar beds or similar cementitious materials	None - Float Finish
E. Driving Surfaces	Rough Swirl Finish

8. Sample Finishes: See Specifications for sample and mockup requirements, if any.
9. Floor Tolerances: See the Specifications for specified Ff and Fl tolerances. Ff and Fl testing shall be performed by the Testing Agency in accordance with ASTM E-1155. Results, including acceptance or rejection of the work will be provided to the Contractor and the Architect/Engineer within 48 hours after data collection. Remedies for out-of-tolerance work shall be in accordance with the Specifications. When approved by the Engineer of Record, measurement of the gaps beneath a 10-foot straight edge may be used in lieu of Ff and Fl testing. Approval must be obtained in writing prior to the beginning of concrete operations.
10. Finishing of Formed Surfaces: Finish formed surfaces as indicated below, and as described in Specification Section 03300 of the Project Manual.

A. Sides of Footings & Pile Caps	Rough Form Finish
B. Sides of Grade Beams	Rough Form Finish
C. Surfaces NOT exposed to public view	Rough Form Finish
D. Surfaces exposed to public view	Smooth Form Finish

11. The Contractor shall consult with the Engineer before starting concrete work to establish a satisfactory placing schedule and to determine the location of construction joints so as to minimize the effects of shrinkage in the floor system.
12. Sawn or tooled control/contraction joints shall be provided in all slabs on grade. For a framed structure, joints shall be located on all column lines. If the column spacing exceeds 20'-0", provide intermediate joints. Exterior slabs, and interior slabs without column shall have joints spaced a maximum of 15'-0" apart. Layout joints so that maximum aspect ratio (ratio of long side to short side) does not exceed 1.5.
13. See Architectural Drawings for exact locations and dimensions of recessed slabs, ramps, stairs, thickened slabs, etc. Slope slabs to drains where shown on the Architectural and Plumbing Drawings.
14. Joints in slabs to receive a finished floor may remain unfilled, unless required by the finish flooring contractor. All exposed slabs shall be filled with sealant specified in Division 7, or as follows: All slabs in industrial, manufacturing, or warehouse applications subject to wheeled traffic shall be filled with specified epoxy resin sealant, all other joints shall be filled with specified elastometric sealant. Defer filling of joints as long as possible, preferably a minimum of 4 to 6 weeks after the slab has been cured. Prior to filling, remove all debris from the slab joints, the fill in accordance with the manufacturer's recommendations.
15. See Architectural Drawings for locations and details of reveals (1" maximum depth) in exposed walls.
16. See Architectural Drawings for chamfer requirements for corners of concrete. Where not indicated, provide 3/4" chamfers on exposed corners of concrete, except those abutting masonry.
17. Sidewalks, drives, exterior retaining walls, and other site concrete are not indicated on the Structural Drawings. Refer to the Site/Civil and Architectural Drawings for locations, dimensions, elevations, jointing, and finish details.

CONCRETE REINFORCING

1. Reinforcement, other than cold drawn wire for spirals and welded wire fabric, shall have deformed surfaces in accordance with ASTM A305.
2. Reinforcing steel shall conform to ASTM A615, Grade 60, unless noted.
3. Welded wire fabric shall conform to ASTM A185, unless noted.
4. Where hooks are indicated, provide standard hooks per ACI and CRSI for all bars unless other hook dimensions are shown on the plans or details.
5. Reinforcement in footings, walls and beams shall be continuous. Lap bars a minimum of 36 diameters, unless noted otherwise.
6. Reinforcement shall be supported and secured against displacement in accordance with the Concrete Reinforcing Steel Institute's "Manual of Standard Practice."
7. Details of reinforcing steel fabrication and placement shall conform to ACI 315 - "Details and Detailing of Concrete Reinforcement" and ACI 315R - "Manual of Engineering and Placing Drawings for Reinforced Concrete Structures," unless otherwise indicated.
8. Spread reinforcing steel around small openings and sleeves in slabs and walls, where possible, and where bar spacing will not exceed 1.5 times the normal spacing. Discontinue bars at all large openings where necessary, and provide an area or reinforcement, equal to the interrupted reinforcement, in full length bars, distributing one-half each side of the opening. Where shrinkage and temperature reinforcement is interrupted, add (2) #5 x opening dimensions +4'-0" on each side of the opening. Provide #5 x 4'-0" diagonal bars in both faces, at each corner of openings larger than 12" in any direction.
9. Provide standees for the support of top reinforcement for footings, pile caps, and mats.
10. Provide individual high chairs with support bars, as required for the support of top reinforcement for supported slabs. Do NOT provide standees.
11. Provide snap-on plastic space wheels to maintain required concrete cover for vertical wall reinforcement.
12. Where walls sit on column footings, provide dowels for the wall. Dowels shall be the same size and spacing as the vertical wall reinforcement, unless noted otherwise, with lab splices as shown on the application sections. Install dowels in the footing forms before concrete is placed. Do NOT stick dowels into footings after concrete is placed.
13. Field bending of reinforcing steel is prohibited, unless noted on drawings.
14. Minimum concrete cover over main reinforcing steel shall be as follows: 3" at foundations, 2" at all dirt faces of walls and beams exposed to the weather, 1-1/2" at all pier and column ties, and 3/4" at other wall faces and in structural slabs unless shown or noted otherwise.

DRILLED-IN DOWELS & ANCHOR BOLTS/RODS

1. All reinforcing steel and threaded rod anchors to be installed in 2-part epoxy anchoring system shall be treated as follows:
   - A. Drill holes 1/8" larger than bar bolt to be embedded.
   - B. Drill holes with single chisel tooth rotary percussion drill that feeds compressed air to the base of the hole through a hollow stem drill bit.
   - C. Utilize a carbide bit to prevent damage to reinforcing steel.
   - D. Drill the hole a minimum of 15 bar diameters or as shown on the plans.
   - E. Clean drilled holes prior to filling with epoxy.
   - F. Use a two-part epoxy adhesive anchoring system, Rawl Foil-Fast, Hilti Hit HY-200, or approved equal.
   - G Reinforcing steel dowels shall be ASTM A615, Grade 60, unless noted.
   - H. Anchor rods shall be ASTM F-1554, Grade 36, unless noted. Provide galvaninzed or stainless steel finish for exterior applications.
2. When column anchor bolts have been omitted, or damaged by construction operations, the Contractor must obtain the written approval of the Engineer of Record prior to repair or replacement.
   - A. As a precaution, the affected column must be guyed and braced after repair for the balance of the erection period.
   - B. As an alternate to guying and bracing, the Contractor may at his option, employ a Testing Agency to perform a tensile pull test to confirm the strength of the repaired or replaced anchor bolt. The tensile proof load must exceed 1.33 x the design load of the original anchor without causing distress of the anchor bolts or the surrounding concrete. Reference the following table for the minimum proof loads:

3/4" diameter	11.6 kips
7/8" diameter	16.0 kips
1" diameter	20.9 kips

   Note: Values listed above are for ASTM F-1554, Grade 36 material. When higher grade or strength materials are specified, refer to the AISC Manual of Steel Construction for minimum allowable loads to be multiplied by 1.33.
   - C. When affected anchor bolts are part of a fixed moment resisting column base, such as those in moment-resisting space frames, canopies, or fixed base installations, the repaired anchor bolts must be proof-loaded, or the affected column footing and/or pier replaced in its entirety.
   - D. When affected anchor bolts are 1-1/8" diameter or larger, the affected column footing and/or pier must be replaced in its entirety.
   - E. When affected anchor bolts are part of a braced frame the affected column footing and/or pier must be replaced in its entirety.
   - F. Prior to erection, the controlling Contractor must provide written notification to the Steel Erector if there has been a repair, replacement or modification of the anchor bolts for that column.

REINFORCED MASONRY NOTES

1. All construction of reinforced masonry walls to be in accordance with the Building Code Requirements For Concrete Masonry Structures (ACI 530) and commentary.
   - A. f'm = 2,000 p.s.i.
   - B. Maximum height of masonry lift: 5'-0"
   - C. Maximum height of grout lift: 5'-0"
   - D. See specifications for additional masonry wall information.
2. CONCRETE BLOCK: Minimum compressive test strength on the net cross-sectional area: 2,800 p.s.i.
3. MORTAR: Type S required
4. GROUT: ASTM C476, 2,500 p.s.i. with a slump of 8" min. and 10" max.
5. REINFORCING: FY = 60,000 p.s.i. with a min. lap of 48 diameters.

LINTEL SCHEDULE

Where lintels are not specifically shown or noted on the Structural or Architectural Drawings, provide the following lintels over all openings and recesses in both interior and exterior non-load-bearing walls.

1. Brick:

Masonry Opening	Angle Size
Up to 6'-8"	L5x5x3/8 (see Arch. details for relationship to wall construction)
Over 6'-8"	L7x4x3/8

   All angles are LLV (long leg vertical) unless noted otherwise. Provide 1" bearing per foot of span each end, min. 8". All angles shall be galvanized.
2. Block: For openings in running bond walls up to 8'-0" long exposed in the finished room, use lintel block filled with grout. Grout all exposed joints and reinforce as follows:
   - A. For 6" thick block: 1 - #5 bar.
   - B. For 8" thick block: 2 - #5 bars.
   - C. For 10" thick block: 2 - #6 bars.
   - D. For 12" thick block: 2 - #6 bars.
3. Block: For openings in running bond walls between 8'-1" and 12'-0" long exposed in the finished room, use lintel block filled with grout. Grout all exposed joints and reinforce per the "Long Masonry Lintel Detail" on the Typical Masonry Detail Drawing.

CONCRETE MIX CLASSES

CLASS A CONCRETE: FOOTINGS, FOUNDATION WALLS, PIERS, & GRADE BEAMS	
COMPRESSIVE STRENGTH	4000 PSI
MAXIMUM WATER/CEMENT RATIO	0.45
AIR CONTENT	0 - 3 PERCENT
WATER-REDUCING ADMIXTURE	REQUIRED
SLUMP	5" TO 6 1/2"
CLASS B CONCRETE: INTERIOR CONCRETE SLABS	
COMPRESSIVE STRENGTH	4000 PSI
MINIMUM CEMENTITIOUS MATERIAL CONTENT	517 LB/CU YD
AIR CONTENT	0 - 3 PERCENT
WATER-REDUCING ADMIXTURE	REQUIRED
SLUMP	5" TO 6 1/2"
CLASS E CONCRETE: EXTERIOR CONCRETE SUBJECT TO FREEZE-THAW	
COMPRESSIVE STRENGTH	4000 PSI
MINIMUM CEMENTITIOUS MATERIAL CONTENT	564 LB/CU YD
AIR CONTENT	6 +/- 1 PERCENT
WATER-REDUCING ADMIXTURE	REQUIRED
SLUMP	5" TO 6 1/2"
COARSE AGGREGATE	CRUSHED STONE
INCREASE COMPRESSIVE STRENGTH TO 4500 PSI FOR EXTERIOR REINFORCED CONCRETE SUBJECT TO THE USE OF DE-ICERS.	
CLASS LC CONCRETE: LEAN CONCRETE FILL	
COMPRESSIVE STRENGTH	2000 PSI
MAXIMUM WATER/CEMENT RATIO	0.65
AIR CONTENT	OPTIONAL
WATER-REDUCING ADMIXTURE	NOT REQUIRED
SLUMP	4" TO 7"

1. SLUMP:

MIXES CONTAINING TYPE A WRDA	5" MAXIMUM
MIXES CONTAINING MID-RANGE WRDA	5 - 6 1/2"
MIXES CONTAINING HIGH-RANGE WRDA	5 - 8"

2. SPECIFIED MINIMUM CEMENTITIOUS MATERIAL CONTENTS ARE BASED ON THE USE OF WATER REDUCING ADMIXTURES.
3. INCLUDE AN AIR-ENTRAINING ADMIXTURE FOR ALL CONCRETE EXPOSED TO FREEZING AND THAWING IN SERVICE AND FOR ALL CONCRETE EXPOSED TO COLD WEATHER DURING CONSTRUCTION, BEFORE ATTAINING ITS SPECIFIED DESIGN COMPRESSIVE STRENGTH. REF. ACI 306 FOR DEFINITION OF COLD WEATHER.
4. CLASS C FLY ASH MAY BE USED AS A CEMENT SUBSTITUTE WITH A MAXIMUM 20% SUBSTITUTION RATE ON A POUND-PER-POUND BASIS.
5. SLAG CEMENT MAY BE USED AS A SUBSTITUTE FOR PORTLAND CEMENT WITH A MAXIMUM 50% SUBSTITUTION RATE ON A POUND-PER-POUND BASIS WITH THE EXCEPTION OF CLASS E CONCRETE, WHICH SHALL BE LIMITED TO 30%.
6. WHEN SLAB CEMENT AND FLY ASH ARE USED IN THE SAME CONCRETE MIX, THE MAXIMUM SUBSTITUTION RATES SHALL COMPLY WITH THE FOLLOWING:

   PORTLAND CEMENT/SLAG/FLY ASH RATIO:

CLASS E EXTERIOR CONCRETE	70% / 20% / 10%
ALL OTHER CLASSES	50% / 30% / 20%

7. FOR CONCRETE TO BE CAST DURING COLD WEATHER, THE MAXIMUM SUBSTITUTION RATE FOR SLAG CEMENT SHALL BE 30%. IF SLAG CEMENT AND FLY ASH ARE USED IN THE SAME MIX, THE MAXIMUM SUBSTITUTION RATES SHALL COMPLY WITH A RATIO OF PORTLAND CEMENT/SLAG/FLY ASH OF 70% / 20% / 10%.
8. PROPORTION CONCRETE MIXES TO PROVIDE WORKABILITY AND CONSISTENCY TO PERMIT CONCRETE TO BE WORKED READILY INTO THE CORNERS AND ANGLES OF THE FORMS AND AROUND REINFORCEMENT BY THE METHODS OF PLACEMENT AND CONSOLIDATION TO BE EMPLOYED, WITHOUT SEGREGATION AND EXCESSIVE BLEEDING.
9. ADJUSTMENTS TO THE APPROVED MIX DESIGNS MAY BE REQUESTED BY THE CONTRACTOR WHEN JOB CONDITIONS, WEATHER, TEST RESULTS, OR OTHER CIRCUMSTANCES WARRANT. THESE REVISED MIX DESIGNS SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER FOR APPROVAL PRIOR TO USE.

MINIMUM COVER FOR REINFORCEMENT

	MINIMUM COVER
SLABS AND JOISTS	
TOP & BOTTOM BARS FOR DRY CONDITIONS:	
#11 BARS & SMALLER	3/4"
#14 & #18 BARS	1 1/2"
FORMED CONCRETE SURFACES EXPOSED TO EARTH, WATER, OR WEATHER, AND OVER OR IN CONTACT WITH SEWAGE AND FOR BOTTOMS BEARING ON WORK MAT, OR SLABS SUPPORTING EARTH COVER:	
#5 BARS & SMALLER	1 1/2"
#6 THROUGH #18 BARS	2"
BEAMS & COLUMNS, FORMED	
FOR DRY CONDITIONS:	
STIRRUPS, SPIRALS & TIES	1 1/2"
PRINCIPAL REINFORCEMENT	2"
EXPOSED TO EARTH, WATER, SEWAGE, OR WEATHER:	
STIRRUPS & TIES	2"
PRINCIPAL REINFORCEMENT	2 1/2"
WALLS	
FOR DRY CONDITIONS:	
#11 BARS & SMALLER	3/4"
#14 & #18 BARS	1 1/2"
FORMED CONCRETE SURFACES EXPOSED TO EARTH, WATER, SEWAGE, WEATHER, OR IN CONTACT WITH GROUND	2"
FOOTINGS & BASE SLABS	
AT FORMED SURFACES & BOTTOMS BEARING ON CONCRETE WORK MAT	2"
AT UNFORMED SURFACES & BOTTOMS IN CONTACT WITH EARTH	3"
TOP OF FOOTINGS	SAME AS SLABS
OVER TOP OF PILES	2"

FINISH FLOORS AND SLABS

1. Comply with recommendations of ACI 302.1R for screeding, restraightening, and finishing operations for concrete surfaces. Perform this work in a manner which will provide floor flatness F(f) and floor levelness F(l) criteria specified.
2. Deposit and consolidate concrete floors and slabs in a continuous operation, within limits of construction joints, until placement of a panel or section is complete.
   - A. Consolidate concrete during placement operations so concrete is thoroughly worked around reinforcement, other embedded items and into corners.
   - B. Maintain reinforcement in position on chairs during concrete placement.
   - C. Bring slab surfaces to correct elevation with a straightedge and strike off.
   - D. Slope slab surfaces uniformly to drains where required.
   - E. Begin initial floating using bull floats or darbies to form a uniform and open-textured surface plan, free of humps or hollows, before excess moisture or bleedwater appears on the surface. Do not further disturb slab surfaces before starting finishing operations. Provide wokr procedures required to meet F(f) and F(l) requirements and to meet requirements for applied floor finishes specified in Division 9.
3. Unless otherwise specified in the Contract Documents, the minimum F(f) and F(l) numbers shall be met:
   - A. Scratch Finish: While still plastic, texture concrete surface that has been screeded and bull-floated or darbied. Use stiff brushes, brooms, or rakes. Apply scratch finish to surfaces to receive bonded concrete floor topping and other bonded cementitious floor finishes.
     1. Specified overall values of flatness, F(f) 20; and levelness F(l) 15; with minimum local values of flatness F(f) 15; and levelness, F(l) 10.
     2. Option: Finish and measure surface so gap at any point between concrete surface and an unleveled freestanding 10 foot long straightedge, resting on two high spots and placed anywhere on the surface, does not exceed 1/4".
   - B. Float Finish: Consolidate surface with power driven floats or by hand floating if area is small or inaccessible to power driven floats. Restraighten, cut down high spots, and fill low spots. Repeat float passes and restraightening until surface is left with a uniform, smooth, granular texture. Apply float finish to monolithic concrete floor and slab surfaces to receive trowel finish, and to floor and slab surfaces to be covered with fluid-applied or sheet waterproofing, built-up or membrane roofing, or terrazzo, ceramic tile, and quarry tile set over a cleavage membrane. Uniformly slope surfaces to drains, unless otherwise indicated.
     1. Specified overall values of flatness, F(f) 25; and levelness, F(l) 20; with minimum local values of flatness F(f) 18; and levelness, F(l) 15.
     2. Option: Finish and measure surface so gap at any point between concrete surface and an unleveled freestanding 10 foot long straightedge, resting on two high spots and placed anywhere on the surface, does not exceed 3/16".
   - C. Trowel Finish: After applying float finish, apply first trowel finish and consolidate concrete by power driven trowel or by hand trowel if area is small or inaccessible to power driven trowel. Continue troweling passes and restraighten until surface is free of trowel marks and uniform in texture and appearance. Grind smooth surface defects that would telegraph through applied coatings or floor coverings. Uniformly slope surfaces to drains, unless otherwise indicated. Apply a trowel finish to floor and slab surfaces exposed to view or to be covered with resilient flooring, carpet, thin-set ceramic or quarry tile, paint, or other thin film finish coating system. Finish surfaces to following tolerances, measured within 24 hours according to ASTM E1155 for a randomly trafficed floor surface:
     1. Specified overall values of flatness, F(f) 35; and levelness, F(l) 25; with minimum local values of flatness F(f) 25; and levelness, F(l) 18.
     2. Option for small areas: Finish and measure surface so gap at any point between concrete surface and an unleveled freestanding 10 foot long straightedge, resting on two high spots and placed anywhere on the surface, does not exceed 1/8".
     3. Athletic floors, Cafeterias, Large-Group Instruction areas and similar areas: Specified overall values of flatness, F(f) 45; and levelness, F(l) 35; with minimum local values of flatness F(f) 35; and levelness, F(l) 25. Grind high areas and fill low areas as required to produce a surface acceptable to the installer of the specified finish floor system. Provide screeds not exceeding 20 feet on center, vibrating screed to strike-off, highway straightedge to close and straighten, machine float, restraighten with highway straightedge or "cross rod," and machine trowel three times, in accordance with ACI referenced recommendations. For floors to receive fluid-applied athletic floors, assume a minimum of 10% of the length of sawn control joints will require grinding to address curling.
     4. For suspended concrete slabs on metal deck, additional special requirements apply:

        For estimating and bidding purposes, assume and additional 1/2" thickness of concrete will be necessary for all suspended (supported) elevated concrete slabs on metal deck to compensate for deflection of floor structure and deck. Suspended slabs on deck shall meet the following: Specified overall value of flatness, F(f) 30; with minimum local value of flatness F(f) 20. The use of a laser screed is highly recommended. Monitor the deflection of the structrue during early pours and adjust concrete placement and finishing procedures accordingly.

STRUCTURAL STEEL NOTES

1. Structural steel construction shall conform to the American Institute of Steel Construction "Specification for Structural Steel Buildings, Allowable Stress Design and Plastic Design."
2. All structural wide flange shapes shall be ASTM A-992, Fy=50 ksi.
3. All plates, channels, bars, angles, and rods shall be ASTM A36, unless noted otherwise.
4. All pipe shapes shall be ASTM A53, Type E, Grade B.
5. All square and rectangular shapes shall ASTM A500, Grade B.
6. Details for design, fabrication and erection of all structural steel shall be in accordance with the latest AISC Standards, unless otherwise noted or specified.
7. Provide temporary erection guying and bracing as required.
8. Unless otherwise shown or noted on the Plans, provide 8" bearing each end for all loose lintels and beams.
9. For loose lintels, masonry shelf angles and other such items generally not shown on the Structural Plans, see the Architectural Plans. See general notes on lintels this sheet for sizes, reinforcing, etc.
10. Steel columns below grade shall be encased in a minimum of 4" concrete or painted with 2 coats asphaltum, unless otherwise shown.
11. Fabricate simple span beams not specifically noted to receive camber so that after erection, any minor camber due to rolling or shop assembly be upward.
12. Reference Specification Section 051200 - Structural Steel of the Project Manual for structural steel shop painting requirements.
13. The Erector shall shim between parallel roof beams and joists with differential mill and induced cambers for level deck bearing.
14. Provide cap plates/end plates to close off exposed, open ends of all tubular members, unless noted otherwise.
15. All columns shall have 3/4" cap plates, unless noted otherwise.

STEEL DECK NOTES

1. All steel deck material, fabrication and installation shall conform to the Steel Deck Institute "SDI SPECIFICATIONS AND COMMENTARY" and "CODE OF RECOMMENDED STANDARD PRACTICE," current edition, unless noted.
2. Provide members for deck support at all deck span changes. Provide L3x3x3/16 deck support at all columns where required.
3. All deck shall be provided in a minimum of 3-span lengths where possible.
4. All welding of steel deck shall be in conformance with AWS Specification D1.3. Provide welding washers for all floor decks less than 22 gauge in thickness.
5. Mechanical fasteners may be used in lieu of welding, providing fasteners meet, or exceed the strength of specified welds. Submit fastener design data to the Engineer of Record for review.
6. Substitution of fiber secondary reinforcement for welded wire fabric on supported slabs is prohibited.
7. Do not suspend any items, such as ductwork, mechanical or electrical fixtures, ceilings, etc. from steel roof deck.
8. Roof deck sidelaps shall be attached at ends of cantilevers and at a maximum spacing 12" o.c. from cantilevered roof deck ends. The roof deck must be completely fastened to the supports and at the sidelaps before any load is applied to the cantilever.
9. Submit shop drawings for review of general conformance to design concept in accordance with Specifications in the Project Manual. Erection drawings shall show type of deck, shop finish, accessories, method of attachment, edge details, deck openings and reinforcement, and sequence of installation.
10. Installation holes shall be sealed with a closure plate 2 gauges thicker than deck and mechanically fastened to deck. Steel deck holes visible from below will be rejected. Deck units that are bent, warped, or damaged in any way which would impair the strength and appearance of the deck shall be removed from the site.
11. Where gauge metal pourstops are indicated, supply pourstops designed to meet, or exceed the gauges listed in the SDI Pourstop Selection Table (min. 18 ga.) as required for slab depth, concrete weight, and cantilever distance, unless noted otherwise.
12. The Erector shall shim between parallel roof beams and joists with differential mill and induced cambers for level deck bearing.
13. The general design intent is for the deck to be unshored. However, depending on the deck manufacturer's maximum unshored span for a given single/double/triple span condition, isolated instances of shoring may be required. Deck shop drawings shall clearly identify all locations that require shoring based on the actual number of spans and based on the manufacturer's maximum span limits.

STEEL CONNECTION NOTES

1. Typical beam-to-beam and beam-to-column connections shall be bearing type using A325-N bolts, unless noted otherwise.
2. Shop connections unless otherwise shown, may be either bolted or welded. All field connections shall be bolted unless otherwise shown on the Structural Drawings.
3. Connections shall be designed by the Steel Fabricator in accordance with the AISC Steel Construction Manual, 14th Edition. For **composite** floor beams with shear connectors along their top flange, design connections for **75%** of the ASD "Maximum Total Uniform Load" value given in AISC Table 3-6 for the given beam size and span (Fy=50 ksi). For **non-composite** beams, design connections capable of supporting **50%** of this value. For **W12** & **W14** beams only with spans less than **12 ft** & **14 ft**, respectively, the value for SPAN may be taken as **12 ft** & **14 ft**, respectively, when selecting the "Maximum Total Uniform Load". For example, for a W12X19 with a span less than 12 ft, span may be taken as 12 ft, and the corresponding "Maximum Total Uniform Load" = 41.1 kips, and non-composite & composite connections may be designed for 20.6 kips & 30.8 kips, respectively (i.e. 50% & 75%).

   Connection design shall be certified by the Steel Fabricator's Professional Engineer registered in Indiana and submitted for EOR review. Connections which are not capable of supporting the prescribed load established above may be clouded by the Steel Fabricator for further review during the shop drawing submittal review process. Steel Fabricator shall identify the proposed allowable connection capacity as designed and detailed for EOR review and comment.
4. All beam-to-beam connections shall be double angle, unless shown or noted otherwise.
5. All beam-to-beam connections shall be at the column centerline, unless noted otherwise. Shear tab connections to tubes are permitted.
6. Typical beam-to-beam, and beam-to-column field-bolted connections may be tightened to the snug-tight condition, unless otherwise shown or noted. Bolted connections in moment frames, bracing connections, and those designated F.T. (fully-tensioned) on the Plans shall be fully-tensioned connections utilizing load-indicating washers, or twist-off bolts.
7. All welding shall be in conformance with AWS D1.1, using E70XX electrodes, unless shown or noted otherwise.
8. Backup bars required for welded connections shall be continuous.
9. Holes in steel shall be drilled or punched. All slotted holes shall be provided with smooth edges. Burning of holes in structural steel shall not be allowed without approval of the Architect/Engineer.
10. Permanent machine bolts, using an approved type of self-anchoring hex nut, may be used for minor connections as closures, etc.
11. Minimum thickness of all connection material to be 5/16" unless noted.
12. Grout beneath base plates and under preset bearing plates shall be non-shrink, non-metallic grout (8,000 psi, minimum). Provide double nuts for adjustment of column base plates, unless noted otherwise.
13. Continuous bent plate and angle closures, clip angles, etc. around perimeter of the floor and roof, as well as around openings shall be welded with a minimum 1/4" fillet weld, 3" at 12" o.c., top & bottom, unless noted otherwise. For continuous perimeter angles and bent plates perpendicular to, and connected to the top chords of joists, provide a minimum 3" of 1/4" weld at each joist. Continuous angle and bent plate closures may be shop-applied when requested and approved by Engineer of Record.

ARCHITECTURALLY EXPOSED STRUCTURAL STEEL (AESS) - KEY

PROCESS	STANDARD	CATEGORY 2	CATEGORY 1
FABRICATION & ERECTION CLASSIFICATIONS - REFER TO DEFINITIONS BELOW FOR FURTHER CLARIFICATION	AISC CODE OF STD. PRACTICE SECTION 10 FOR AESS	HIGH PROFILE COND'NS. THAT ARE OUT OF REACH TO TOUCH AND CAN BE VIEWED IN CLOSE PROXIMITY WITHIN 20 FEET	HIGH PROFILE COND'NS. THAT ARE WITHIN REACH TO TOUCH & CAN BE VIEWED IN CLOSE PROXIMITY
SPECIAL CARE IN PROCESSING AESS	X	X	X
TOLERANCES ONE-HALF STANDARD	X		X
WELDS GROUND SMOOTH		X	X
WELDS CONTOURED & BLENDED		X	X
CONTINUOUS WELDS			X
WELD SHOW THROUGH MINIMIZED		X	X
COPING & BLOCKING TOLERANCES MINIMIZED	X		X
JOINT GAP TOLERANCES MINIMIZED	X		X
PIECE MARKS HIDDEN	X	X	X
SURFACE DEFECTS MINIMIZED	X		X
MILL MARKS REMOVED			X
GRINDING OF SHEARED EDGES			X
ROLLED MEMBERS: MINIMIZE DISTORTION		X	X
SEAL WELDS TO CLOSE OPEN GAPS			X
BOLT HEAD ORIENTATION DICTATED		X	X
FIELD WELDING AIDS REMOVED		X	X
CLOSE WELD ACCESS HOLES AT FULL PENETRATION WELDS		X	X

NOTES:

1. REFERENCE DIVISION 5 SPECIFICATIONS "STRUCTURAL STEEL" & "ARCHITECTURALLY EXPOSED STRUCTURAL STEEL" FOR ADDITIONAL REQUIREMENTS.
2. REFERENCE THE FRAMING PLAN(S) & DETAILS FOR ITEMS SCHEDULED TO BE AESS. EXPOSED COLUMNS & BASE PL's SHALL BE CONSIDERED CATEGORY 1. BEAMS, UPPER PORTIONS OF COLUMNS, CHANNEL LINTELS & FRAMES SHALL BE CONSIDERED CATEGORY 2. ALL OTHER AESS SHALL BE CONSIDERED STANDARD, UNLESS NOTED OTHERWISE.
3. REFERENCE THE FRAMING PLAN(S), SECTIONS, DETAILS, ELEVATIONS & ARCHITECTURAL DRAWINGS FOR ADDITIONAL DEFINITION OF EXTENT OF AESS.

DEFINITIONS:

1. "FABRICATION TOLERANCE": FABRICATE STEEL TO ONE HALF THE NORMAL TOLERANCE AS SPEC'D IN THE "CODE OF STD. PRACTICE," SECTION 10.
2. "WELDS GROUND SMOOTH": FABRICATOR (ERECTOR FOR FIELD WELDS) SHALL GRIND WELDS OF AESS SMOOTH. FOR GROOVE WELDS, THE WELD SHALL BE MADE FLUSH TO THE SURFACES EACH SIDE AND BE WITHIN +/- 1/16", -0" OF PLATE THICKNESS.
3. "CONTOURING & BLENDING OF WELDS": WHERE FILLET WELDS ARE INDICATED TO BE GROUND-CONTOURED, OR BLENDED, OVERSIZE WELDS AS REQUIRED AND GRIND TO PROVIDE A SMOOTH TRANSITION AND TO MATCH PROFILE ON APPROVED MOCKUP.
4. "CONTINUOUS WELDS": WHERE WELDING IS NOTED ON THE DRAWINGS, PROVIDE CONTINUOUS WELDS OF A UNIFORM SIZE AND PROFILE.
5. "MINIMIZE WELD SHOW THROUGH": AT LOCATIONS WHERE WELDING ON THE FAR SIDE OF AN EXPOSED CONNECTION OCCURS, GRIND DISTORTION AND MARKING OF THE STEEL TO A SMOOTH PROFILE WITH ADJACENT MATERIAL.
6. "COPING AND BLOCKING TOLERANCE": MAINTAIN A UNIFORM CAP OF 1/8" +/- 1/32" AT ALL COPES AND BLOCKS.
7. "JOINT GAP TOLERANCE": MAINTAIN A UNIFORM GAP OF 1/8" +/- 1/32".
8. "PIECE MARKS HIDDEN": FABRICATE SUCH THAT PIECE MARKS ARE FULLY HIDDEN IN THE FINAL STRUCTURE OR MADE WITH SUCH MEDIA TO PERMIT FULL REMOVAL AFTER ERECTION.
9. "MILL MARK REMOVAL": FABRICATOR SHALL DELIVER STEEL WITH NO MILL MARKS (STENCILED, STAMPED, RAISED, ETC.) IN EXPOSED LOCATIONS. MILL MARKS SHALL BE OMITTED BY CUTTING OF MILL MATERIAL TO APPROPRIATE LENGTHS WHERE POSSIBLE. WHERE NOT POSSIBLE, THE FABRICATOR CAN FILL AND/OR GRIND TO A SURFACE FINISH CONSISTENT WITH THE APPROVED MOCKUP.
10. "GRINDING OF SHEARED EDGES": FABRICATOR SHALL GRIND ALL EDGES OF SHEARED, PUNCHED, OR FLAME-CUT STEEL TO MATCH APPROVED MOCKUP.
11. "ROLLED MEMBERS": MEMBER SPECIFIED TO BE ROLLED TO A FINAL CURVED SHAPE SHALL BE FULLY SHAPED IN THE SHOP AND TIED DURING SHIPPING TO PREVENT STRESS RELIEVING. DISTORTION OF THE WEB OR STEM, AND OF OUTSTANDING FLANGES OR LEGS OF ANGLES SHALL BE VISIBLY ACCEPTABLE TO THE ARCHITECT FROM A DISTANCE OF 20' UNDER ANY LIGHTING CONDITION DETERMINED BY THE ARCHITECT. TOLERANCES FOR THE VERTICAL AND HORIZONTAL WALLS OF RECTANGULAR HSS MEMBERS AFTER ROLLING SHALL BE THE SPECIFIED DIMENSION OF +/- 1/2".
12. "SEAL WELD TO CLOSE OPEN GAPS": SEAL WELD OPEN ENDS OF ROUND & RECTANGULAR HOLLOW STRUCTURAL SECTIONS WITH 3/8" CLOSURE PLATES. PROVIDE CONTINUOUS SEALED WELDS AT ANGLE TO GUSSET PLATE CONNECTIONS AND SIMILAR LOCATIONS WHERE AESS IS EXPOSED TO WEATHER.
13. "BOLT HEAD ORIENTATION": ALL BOLT HEADS SHALL BE ORIENTED AS INDICATED ON THE CONTRACT DOCUMENTS. WHERE BOLT-HEAD ALIGNMENT IS SPECIFIED, THE ORIENTATION SHALL BE NOTED FOR EACH CONNECTION ON THE ERECTION DRAWINGS. WHERE NOT NOTED, THE BOLT HEADS IN A GIVE CONNECTION SHALL BE ORIENTED TO ONE SIDE.
14. "REMOVAL OF FIELD-WELDING AIDS": RUN-OUT TABS, ERECTION BOLTS, TEMPORARY SEATS, AND OTHER STEEL MEMBERS ADDED TO CONNECTIONS TO ALLOW FOR ALIGNMENT, FIT-UP, AND WELDING IN THE FIELD SHALL BE REMOVED FROM THE STRUCTURE. FIELD GROOVE WELDS SHALL BE SELECTED TO ELIMINATE THE NEED FOR BACKING BARS OR TO PERMIT THEIR REMOVAL AFTER WELDING. WELDS AT RUN-OUT TABS SHALL BE REMOVED TO MATCH ADJACENT SURFACES AND GROUND SMOOTH. HOLES FOR ERECTION BOLTS SHALL BE PLUG WELDED AND GROUND SMOOTH.
15. "FILLING OF WELD ACCESS HOLES": WHERE HOLES MUST BE CUT IN THE WEB AT THE INTERSECTION WITH FLANGES ON W SHAPES AND STRUCTURAL TEES TO PERMIT FIELD WELDING OF THE FLANGES. THEY SHALL BE FILLED. FILLING SHALL BE EXECUTED WITH PROPER PROCEDURES TO MINIMIZE RESTRAINT AND ADDRESS THERMAL STRESSES IN GROUP 4 & 5 SHAPES.

STEEL JOIST NOTES

1. All steel joists shall be designed, fabricated, and erected in accordance with SJI Standard Specifications.
2. Joist bridging (if shown) is schematically indicated. Provide all bridging necessary to conform to SJI Specifications.
3. The ends of all bridging lines terminating at walls or beams shall be anchored to the wall or beam.
4. Joist bridging and connections shall be completely installed prior to placing any construction loads on the joists. Construction loading shall not exceed the joist design load.
5. All roof joists shall be capable of resisting the net uplift a noted on the Structural Drawings (min. 15 psf net). Provide an additional row of continuous horizontal bottom chord bridging at the first panel point location at each end of all roof joists.
6. Special joists (SP) shall be designed for the load designations specified on the Structural Drawings. Designs shall properly account for the distribution of concentrated loads, live loads, and for the effect of openings. Designs are to meet the requirements of SJI.
7. Joists shall meet the following deflection criteria per SJI. Maximum live load deflection shall not exceed:
   - A) Roofs without suspended ceilings: L/240
   - B) Roof with suspended ceilings: L/360
   - C) Floors: L/360
8. The Joist Manufacturer shall submit calculations for all special joists to Structural Engineer of Record for record purposes prior to fabrication. These calculations shall bear the seal and signature of a Professional Engineer registered in the State of Indiana.
9. Joists on column centerlines shall have extended bottom chord connections for erection stability, unless otherwise noted. Do not connect bottom chord extensions, unless otherwise noted or shown.
10. Joists on, or near column centerlines shall have field-bolted connections for erection stability, unless otherwise noted.
11. The Joist Manufacturer shall coordinate with the Structural Steel Fabricator for the design of all connections to support columns, beams, bearing seats, etc. prior to submittal of shop drawings.
12. Where a joist is part of a moment-resisting frame, delay the connection of the bottom chord to the column until all dead loads have been placed. All field-bolted and field-welded connections in moment-resisting frames shall be inspected per AWS and AISC requirements.
13. The Joist Manufacturer shall furnish evidence that the joist meets or exceeds the specified minimum moment of inertia (Ix) listed on the Plans. Where a minimum Ix value is not specified, the Ix value can be that required to meet the specified loading and deflection criteria.
14. All steel joists shall be furnished with standard SJI camber, unless noted otherwise.
15. All items suspended from joists such as catwalks, basketball goals, operable partitions, etc. should be installed after all dead loads of roofing, flooring, ceilings, etc. are installed.
16. All joists shall be shop primed in accordance with SJI requirements, unless note otherwise. Color to match structural steel primer, unless approved in writing.
17. Provide sloped bearing ends where joist slope exceeds 1/4" per foot.
18. Do not field cut or alter joists without the written approval of the Joist Manufacturer.

COLD-FORMED (LIGHT GAUGE) METAL FRAMING NOTES

1. All cold-formed framing members, their design, fabrication, and erection shall conform to the "Specification for the Design of Cold-Formed Steel Structural Members" of the A.I.S.I.
2. All framing members shall be formed from steel conforming to ASTM A653, with a minimum yield strength as follows:

12, 14 & 16 gauge members:	Fy=50ksi
18, 20 gauge members	Fy=36ksi

3. All framing members shall be galvanized with a G-90 coating meeting the requirements of ASTM A653, unless otherwise indicated.
4. Members shall be the Manufacturer's standard "C"-Shaped studs/joists of the size, flange width, and gauge indicated. All members shall have a minimum flange lip return of 1/2" and satisfy the minimum properties in accordance with the Steel Stud Manufacturer's Association (SSMA).
5. The gauge of all tracks shall match the gauge of the associated stud or joist, unless otherwise noted.
6. All welding shall be in conformance with AWS Specification D1.3. No welding of members less than 14 gauge in thickness is permitted without the approval of the Engineer of Record. All welding shall be performed by certified welders. All welds shall be touched up with zinc rich paint in accordance with ASTM A780.
7. Provide bridging for all load-bearing studs at a maximum spacing of 48" on center.
8. Provide bridging for all non-load-bearing exterior curtain wall studs at a maximum spacing of 54" on center. Locate one row of bridging within 18" of the top track when a single deep-leg deflection track is utilized.
9. Provide bridging for joist and rafters at midspan and at a maximum spacing of 6'-0" on center, unless noted otherwise. All bridging shall be installed prior to the addition of any loading. Connect bridging to each member by clip angles, or other approved method per the Manufacturer's requirements.
10. Provide web stiffeners at joist and rafter bearings in accordance with the Manufacturer's requirements.
11. All axially loaded studs shall have full bearing against the inside track web, prior to stud and track alignment. Splices in axially loaded studs are not permitted.
12. Provide the Manufacturer's standard track, clip angles, bracing, reinforcement, fasteners, and accessories as recommended by the Manufacturing for the application indicated and as need to provide a complete framing system. Unless otherwise indicated, install the metal framing system in accordance with the Mfr's shop drawings, written instructions and recommendations.
13. Install supplementary framing, blocking, and bracing in metal framing system wherever walls or partitions are indicated to support fixtures, equipment, services, casework, heavy trim and furnishings, and similar work requiring attachment to the wall or partition. Where type of supplementary support is not otherwise indicated, comply with the stud mfr's recommendations and industry standards in each case, considering weight or loading resulting from the item supported.
14. All field-cutting of studs must be done by sawing or shearing. Torch cutting of cold-formed members is not allowed.
15. No notching or coping of studs is allowed, unless explicitly shown on the design or shop drawings. All field-cut holes must be reinforced.
16. Framing contractor is to ensure punch out alignment when assembling lateral bracing and field-cutting studs to length. Lateral bracing must be installed at the time the wall is erected.
17. Temporary bracing shall be provided and remain in place until work is completely stabilized.
18. Use a minimum of three studs at the corners of all exterior walls.
19. Use a minimum of three studs at the intersections and corners of all load-bearing walls.
20. All headers and built-up beams must be constructed of UNPUNCHED material only. Install insulation in built-up exterior framing members, such as headers, sills, boxed joists, and multiple studs at openings, that are inaccessible on completion of framing work.
21. Shop drawings: Show layout, spacings, sizes, thicknesses, and types of cold-formed metal framing; and fastening and anchorage details, including mechanical fasteners. Show reinforcing channels, opening framing, supplemental framing, strapping, bracing, bridging, splices, accessories, connection details, and attachment to adjoining work.
22. For cold-formed metal framing indicated to comply with design loads, include structural analysis data signed and sealed by the qualified professional engineer responsible for their preparation.
23. Structural Performance: Provide cold-formed metal framing capable of withstanding design loads within limits and under conditions indicated.
   - A. Design Loads: Reference Design Criteria Notes
   - B. Deflection Limits: Design framing systems to withstand design loads without deflections greater than the following:
     1. Wall Framing: Horizontal deflection of 1/240 of the wall height for walls with flexible finishes, e.g. metal siding, E.I.F.S.
     2. Wall Framing: Horizontal deflection of 1/360 of the wall height for walls with cementitious finishes, e.g. cement plaster.
     3. Wall Framing: Horizontal deflection of 1/600 of the wall height for walls with masonry veneer finishes.
     4. Floor Joist Framing: Vertical deflection of 1/360 of the span under Live Load. Limit deflection under Total Load to 1/240 of the span.
     5. Roof Framing: Vertical deflection of 1/360 of the span under Live Load. Limit deflection under Total Load to 1/240 of the span.
24. Design framing systems to provide for movement of framing members without damage or overstressing, sheathing failure, undue strain on fasteners and anchors, or other detrimental effects when subject to an ambient temperature change of not less than 120 degrees F.
25. Design framing system to maintain clearances at openings, to allow for construction tolerances, and to accommodate live load deflection of primary building structure as follows:
   - A. Upward and downward movement of 3/4 inch.
26. Design exterior non load-bearing curtain wall framing to accommodate horizontal deflection without regard for contribution or sheathing materials.

STAIRS

1. See Design Criteria for live load and handrail requirements.
2. All stair designs shall be provided by the Stair Manufacturer and shall be stamped by a Professional Engineer registered in the State of Indiana.
3. Provide the Engineer of Record with drawings showing location, direction and magnitude of all stair load reactions on the Building for approval, prior to fabrication.
4. The Stair Designer shall coordinate the transition between the supported structural floor slab and the stair structures with the Structural Steel Fabricator, prior to fabrication.

SPECIALTY ENGINEERING

1. A Specialty Engineer is defined as a Professional Engineer licensed in the State of Indiana, not the Structural Engineer of Record, who performs Structural Engineering functions necessary for the structure to be completed and who has shown experience and/or training in the specific speciality.
2. It is the Specialty Engineer's responsibility to review the Construction Drawings and Specifications to determine the appropriate scope of engineering.
3. It is the intent of the Drawings and Specifications to provide sufficient information for the Specialty Engineer to perform his design and analysis. If the Specialty Engineer determines there are details, features, or unanticipated project limits which conflict with the engineering requirements as described in the project documents, the Specialty Engineer shall in a timely manner, contact the Engineer of Record for resolution of conflicts.
4. The Specialty Engineer shall forward documents to the Engineer of Record for review. Such documents shall bear the stamp of the Specialty Engineer and include:
   - A. Drawings introducing engineering input, such as defining the configuration or structural capacity of structural components and/or their assembly into structural systems.
   - B. Calculations.
   - C. Computer printouts which are an acceptable substitute for manual calculations provided they are accompanied by sufficient design assumptions and identified input and output information to permit their proper evaluation. Such information shall bear the stamp of the Specialty Engineer as an indication that said engineer has accepted responsibility for the results.
5. Contractors are referred to the specific technical specification sections and the structural drawings for those elements requiring Specialty Engineering. Examples of components requiring Specialty Engineering include, but are not limited to the following:
   - A. Specialty Foundation Systems.
   - B. Temporary Retention Systems.
   - C. Underpinning Systems.
   - D. Permanent Dewatering Systems.
   - E. Shoring and Bracing Systems.
   - F. High-Performance Concrete Mix Designs.
   - G. Structural Steel Connections.
   - H. Steel Stairs.
   - I. Cold-Formed Steel Framing.
   - J. Curtain Wall Systems.
6. When modifications are proposed to elements under the design and certification of the Specialty Engineer, written authorization by the Specialty Engineer must be obtained and submitted to the Engineer of Record for review, prior to performing the proposed modification.

TEMPORARY DEWATERING SYSTEM CONTRACTOR DESIGNED

1. The dewatering system consists of the design, installation, testing, operation, monitoring, maintenance, and removal of a temporary site dewatering system. This system shall be of sufficient scope, size, and capacity to control ground water flow into excavations and to permit construction to proceed on dry, stable subgrade. Moreover, the Contractor shall take suitable precautionary measures to prevent damage to the surrounding structures and to work with the Retention System Contractor to prevent hydrostatic pressure from developing in the earth retention system. The system will likely consist of a series of well points, vacuum headers, drains and sumps in accordance with the requirements of the Specifications and the Dewatering System Contractor's design.
2. The Contractor's design shall be based on the follow information furnished by the Owner, or his designated representative:
   - A. New and existing utility locations.
   - B. Location of Right-of-Way and easements.
   - C. Owner's standard and/or special requirements for the project.
   - D. Soil borings and lab test data that describe the ground and water conditions. The Geotechnical Report is for informational purposes only and should not be considered part of the Contract Documents. The opinions expressed represent the Geotechnical Engineer's interpretation of the subsurface conditions, tests, and the results of analyses conducted. Should the data in this Report not be adequate for the Contractor's purposes, the Contractor may make, before bidding, independent exploration, test and analyses.
3. The Contractor shall prepare and submit shop drawings for the dewatering system that show arrangement, locations, and details of wells, well points, headers, sumps, and discharge lines. Moreover, it shall include flow calculations, and means of discharge and disposal of water. These drawings, showing all of the above information, shall be prepared by a Professional Engineer registered in the State of Indiana who meets the qualifications described in the Specifications, and shall bear his seal and signature.
4. The Contractor shall furnish a system management plan with at least three emergency contacts.
5. The Engineer of Record's review will be made to verify that the Contractor is qualified to perform the work in accordance with the Specifications and that the Contractor has addressed the scope of the work described above.

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415 Massachusetts Avenue
Indianapolis, IN 46204
www.schmidt-arch.com

Project No. 2017-105.MHS
Project Date 09.06.2018
Produced RMD

WESLEY B. HARRISON
REGISTERED
PE60860410
STATE OF INDIANA
PROFESSIONAL ENGINEER

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#	Revision	Date

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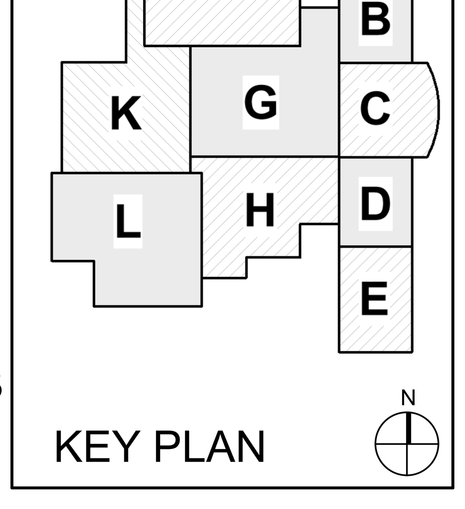

N

KEY PLAN

School City of Hammond

School City of Hammond

Hammond Middle High School

STRUCTURAL NOTES

S-600.1

S-600.1_ STRUCTURAL NOTES
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SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES

ABBREVIATIONS

A	COMPRESSED AIR (100 PSIG)
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
APPROX	APPROXIMATELY
ARCH	ARCHITECT
BLDG	BUILDING
BP	BOOSTER PUMP
BTU	BRITISH THERMAL UNIT
BTUH	BTU PER HOUR
CO	CLEAN OUT
CP	CIRCULATOR PUMP
CW	COLD WATER
CSW	COLD SOFT WATER
DIA OR Ø	DIAMETER
DWG	DRAWING
EC	ELECTRICAL CONTRACTOR
ECO	EXTERIOR CLEANOUT
ELEC	ELECTRIC
EQUIP	EQUIPMENT
ET	EXPANSION TANK
EX	EXISTING
°F	DEGREES FAHRENHEIT
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
G	NATURAL GAS
GAL	GALLONS
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GT	GREASE TRAP
GW	GREASE WASTE
HB	HOSE BIB
HP	HORSEPOWER
HVAC	HEATING VENTILATING AND AIR CONDITIONING
HW	HOT WATER
HX	HEAT EXCHANGER
HYD	WALL HYDRANT
HZ	HERTZ
IMB	ICE MAKER BOX
IN	INCH
KW	KILOWATT
KWH	KILOWATT HOUR
L	LAVATORY
LA	LAB COMPRESS AIR (15 PSIG)
LB	POUND
LF	LINEAR FEET
LP	LIQUIFIED PETROLEUM GAS

ABBREVIATIONS

MAX	MAXIMUM
MBH	1000 BTU PER HOUR
MC	MECHANICAL CONTRACTOR
MCA	MINIMUM CIRCUIT AMPACITY
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
N/A	NOT APPLICABLE
N	NITROGEN
NO	NITROUS OXIDE
NP	NON-POTABLE WATER
O	OXYGEN
OS	OIL SEPARATOR
PC	PLUMBING CONTRACTOR
PD	PRESSURE DROP
PH	PHASE
PSI	POUNDS PER SQUARE INCH
PSIA	POUNDS PER SQUARE INCH ABSOLUTE
PSIG	POUNDS PER SQUARE INCH GAGE
PW	PURE WATER (CAP 2)
PWR	PURE WATER RETURN (CAP 2)
RPZ	REDUCED PRESSURE BACKFLOW PREVENTER
RD	ROOF DRAIN
SAN	SANITARY
SH	SHOWER
SK	SINK
SPEC	SPECIFICATION
SQ FT	SQUARE FEET
ST	STORM
STD	STANDARD
TD	TRENCH DRAIN
TMV	THERMOSTATIC MIXING VALVE
TYP	TYPICAL
UR	URINAL
V	VOLT / VENT
VAC	VACUUM
VERT	VERTICAL
VOL	VOLUME
VTR	VENT THROUGH ROOF
W	WASTE
W/	WITH
WB	WASHER BOX
WC	WATER CLOSET
WCO	WALL CLEANOUT
WH	WATER HEATER
WS	WATER SOFTENER
YCO	YARD CLEAN OUT

PLUMBING NOTES:

(APPLY TO ALL PLUMBING DRAWINGS)

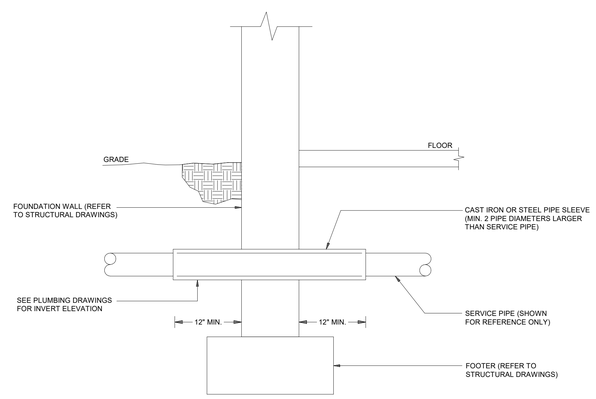
1. ALL WORK ON THE PLUMBING DRAWINGS IS NEW AND BY THIS CONTRACTOR UNLESS OTHERWISE INDICATED.
2. THE PLUMBING CONTRACTOR SHALL INCLUDE IN HIS BID ALLOWANCES, FEES, AND COSTS TO COMPLETE THIS PROJECT.
3. THE PLUMBING CONTRACTOR SHALL FURNISH ALL REQUIRED LABOR AND PROVIDE ALL MATERIAL, EQUIPMENT INCLUDING ALL CONTRACTOR'S SERVICES NECESSARY TO COMPLETE INSTALLATION OF THE REQUIRED SYSTEMS IN FULL CONFORMITY WITH APPLICABLE CODES AND ORDINANCES. THE FINISHED INSTALLATION SHALL BE FUNCTIONAL AND COMPLETE IN EVERY DETAIL INCLUDING ANY AND ALL SUCH ITEMS FOR COMPLETE AND OPERATIONAL SYSTEMS.
4. ALL PLUMBING SYSTEMS TO BE INSTALLED TO MEET THE REQUIREMENTS OF THE INDIANA PLUMBING CODE (2006 INTERNATIONAL PLUMBING CODE WITH THE LATEST INDIANA AMMENDMENTS).
5. ALL SOIL, WASTE, VENT, AND STORM PIPING SHALL BE INSTALLED AT THE FOLLOWING MINIMUM SLOPE:
   ⅛" (1%) PER FOOT GRADE FOR PIPE SIZES 3" AND LARGER.
   ¼" (2%) PER FOOT GRADE FOR PIPE SIZES 2½" AND SMALLER.
6. CUTTING AND PATCHING, AND CORE DRILLING FOR PLUMBING WORK SHALL BE THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR.
7. FOUNDATION AND FOOTINGS SHALL NOT BE DISTURBED WITHOUT OBTAINING PERMISSION FROM THE ARCHITECT AND/OR STRUCTURAL ENGINEER. PROPER UNDERPINNING METHODS SHALL BE USED TO PROTECT AFFECTED FOUNDATION COMPONENTS.

GENERAL NOTES:

1. ALL CONTRACT DOCUMENTS (SPECIFICATIONS AND DRAWINGS), I.E.: CIVIL, ARCHITECTURAL, STRUCTURAL, AND PLUMBING ARE COMPLIMENTARY AND MUST BE USED IN COMBINATION TO OBTAIN COMPLETE CONSTRUCTION INFORMATION.
2. ALL CONFLICTS, WHICH MAY PREVENT THE COMPLETION OF WORK AS INTENDED, SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION. THE CONTRACTOR SHALL NOT PROCEED WITH ANY RELATED WORK UNTIL ALL CONFLICTS ARE RESOLVED AND THE CLARIFYING INFORMATION IS ISSUED TO THE CONTRACTOR BY THE ARCHITECT.
3. THE PLUMBING DRAWINGS ARE DIAGRAMMATIC AND DO NOT NECESSARILY SHOW EVERY COMPONENT AND/OR ACCESSORY REQUIRED FOR A COMPLETE INSTALLATION. THE CONTRACTOR SHALL INCLUDE SUCH ITEMS AS ARE REQUIRED TO ENSURE THAT THE ENTIRE SYSTEM IS FUNCTIONING IN COMPLIANCE WITH APPLICABLE CODES, ACCEPTED INDUSTRY STANDARDS, AND MANUFACTURER'S INSTALLATION REQUIREMENTS/RECOMMENDATIONS UPON COMPLETION OF WORK.
4. FIELD VERIFICATION: CONTRACTOR SHALL INSPECT AND VERIFY ALL EXISTING FIELD CONDITIONS, CLEARANCES AND DIMENSIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF EXISTING CONDITIONS. SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT ARCHITECT/ENGINEER BEFORE PROCEEDING WITH ANY WORK.

PIPE SLEEVES:

1. STEEL PIPE: ASTM A 53, TYPE E, GRADE B, SCHEDULE 40, GALVANIZED, PLAIN ENDS.
2. CAST IRON: CAST OR FABRICATED "WALL PIPE" EQUIVALENT TO DUCTILE IRON PRESSURE PIPE, WITH PLAIN ENDS AND INTEGRAL WATER STOP.
3. INSTALL SLEEVES FOR PIPES PASSING THROUGH CONCRETE AND MASONRY WALLS.



(A) PIPE SLEEVE DETAIL
SCALE: NONE

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Project Date 09.06.2018
Produced KC

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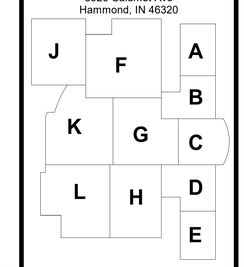

KEY PLAN

School City of Hammond

School City of Hammond

Hammond Middle High School

PLUMBING SYMBOLS AND ABBREVIATIONS

P-000.1

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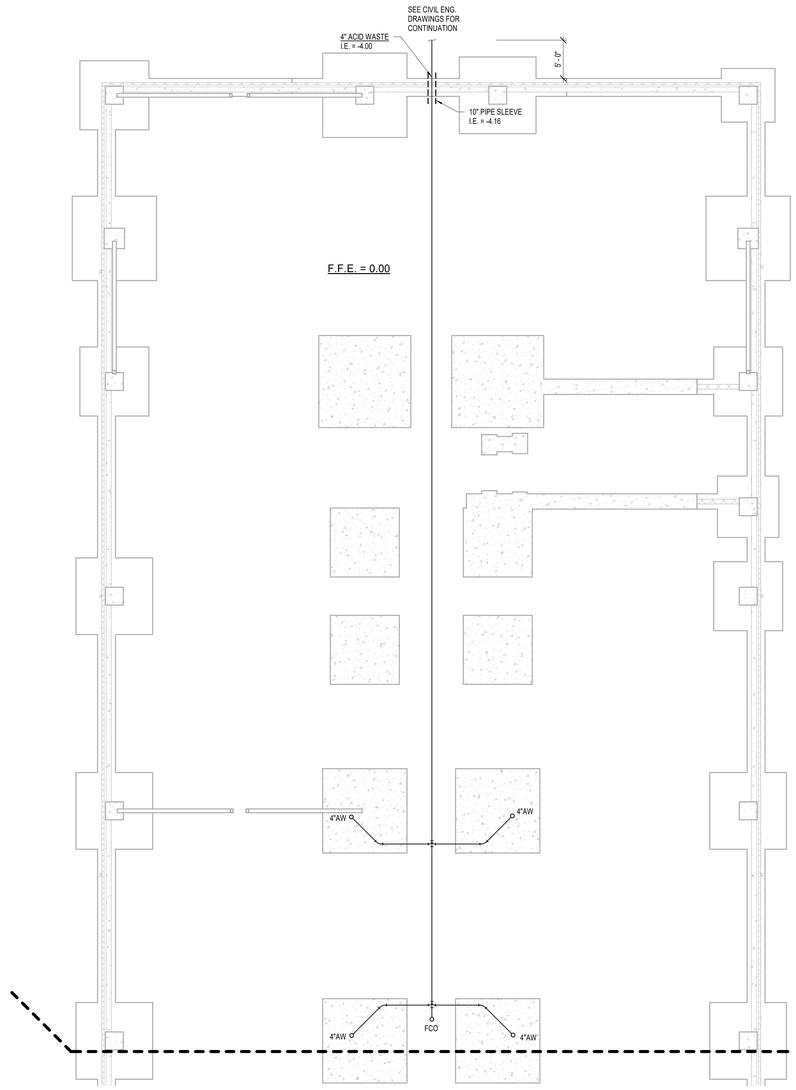

1 PLUMBING UNDERSLAB FLOOR PLAN - AREA A
1/8" = 1'-0"

NOTE:
SANITARY AND STORM PIPING SHOWN FOR REFERENCE ONLY PROVIDE PIPE SLEEVES AS PART OF BID PACKAGE I (PIPING WILL BE PART OF BID PACKAGE II)

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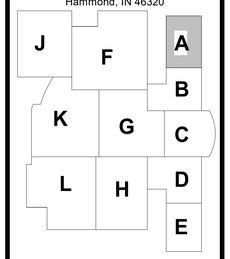

KEY PLAN

School City of Hammond

School City of Hammond

Hammond Middle High School

PLUMBING UNDERSLAB AREA A

PF1A0.1

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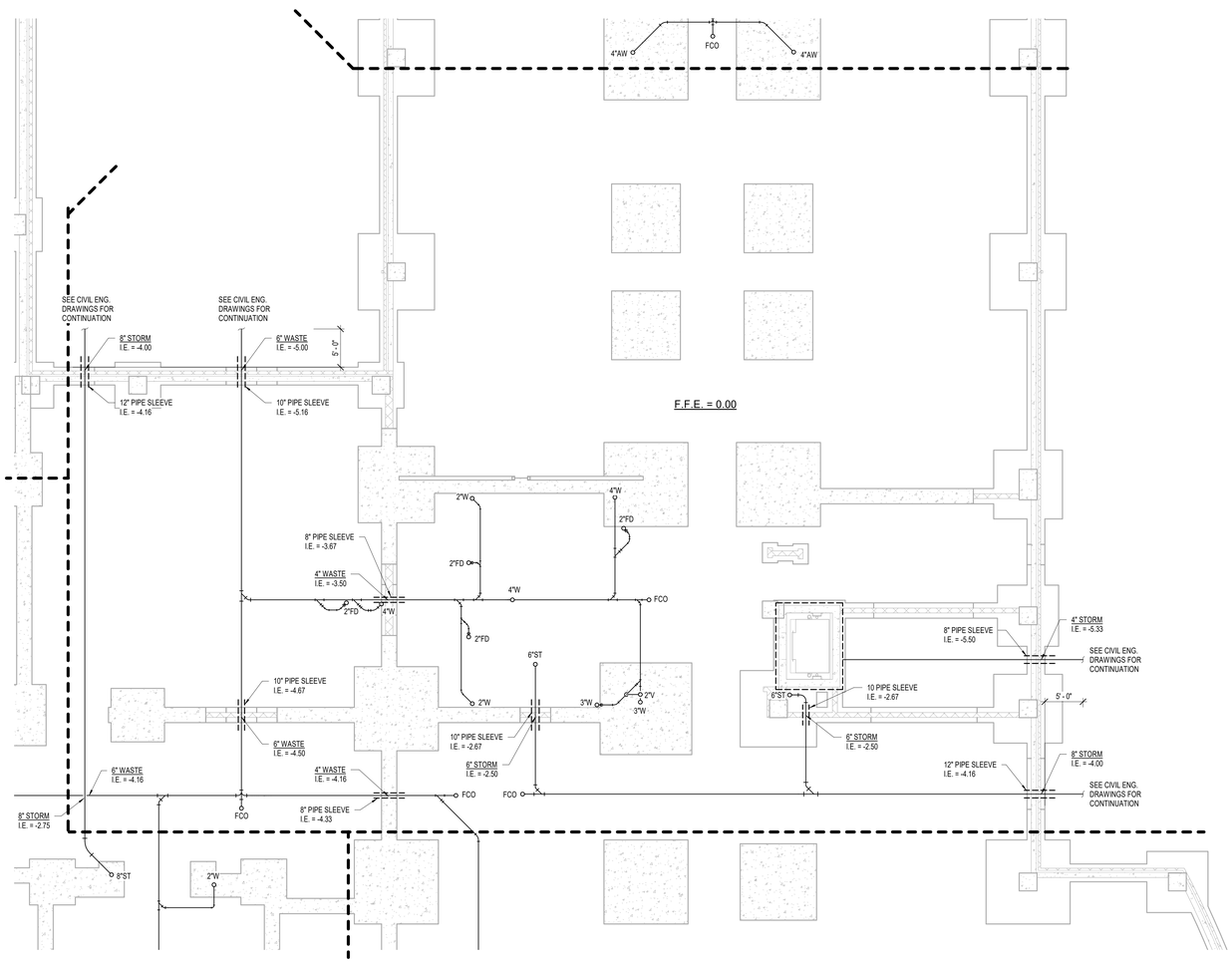

1 PLUMBING UNDERSLAB FLOOR PLAN - AREA B
1/8" = 1'-0"

NOTE:
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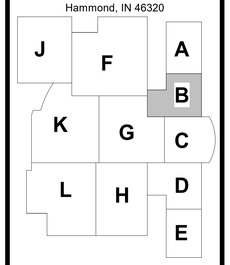

KEY PLAN

School City of Hammond

School City of Hammond

Hammond Middle High School

PLUMBING UNDERSLAB AREA B

PF1B0.1

PF 1B0.1 - PLUMBING UNDERSLAB AREA B
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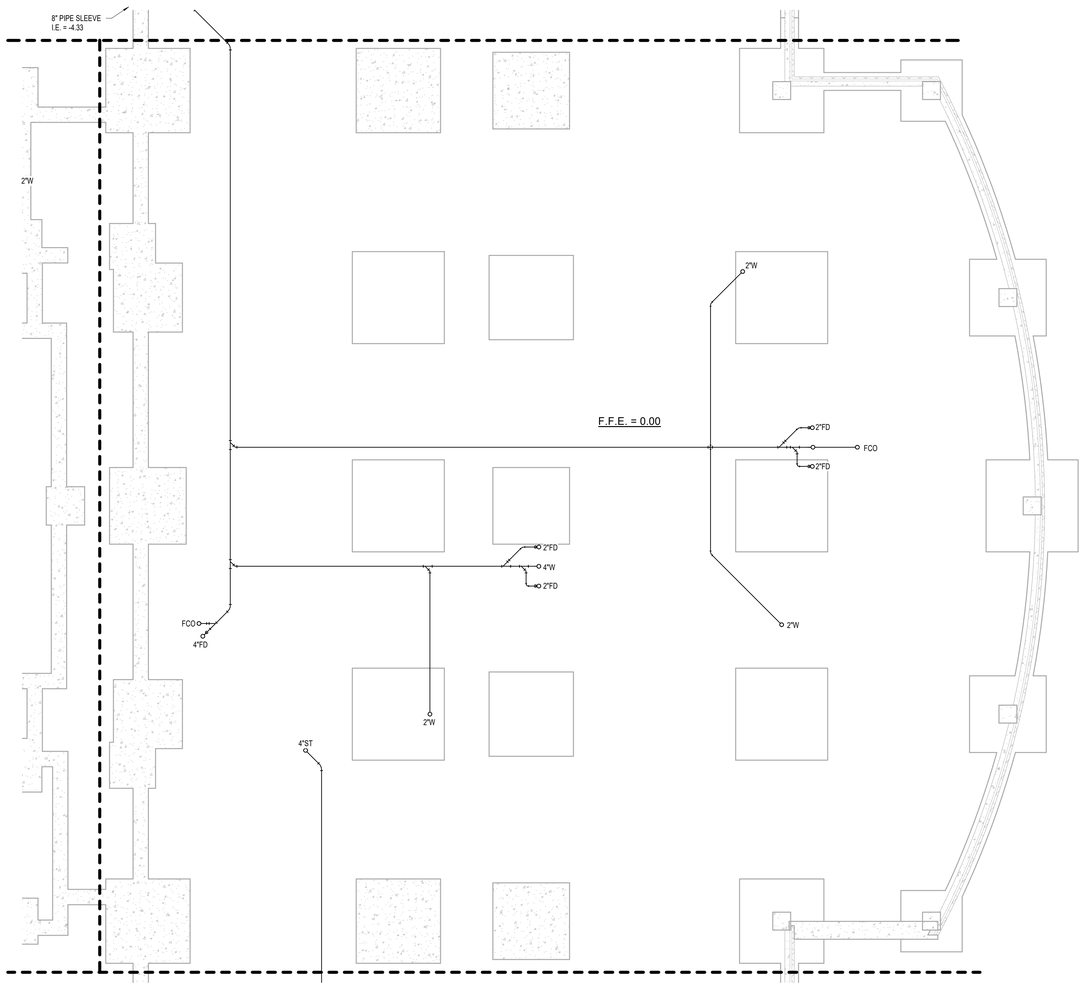

1 PLUMBING UNDERSLAB FLOOR PLAN - AREA C
1/8" = 1'-0"

NOTE:
SANITARY AND STORM PIPING SHOWN FOR REFERENCE ONLY PROVIDE PIPE SLEEVES AS PART OF BID PACKAGE I (PIPING WILL BE PART OF BID PACKAGE II)

SCHMIDT ASSOCIATES
415 Massachusetts Avenue
Indianapolis, IN 46204
www.schmidt-arch.com

Project No. 2017-105.MHS
Project Date 09.06.2018
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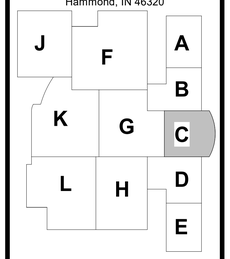

KEY PLAN

School City of Hammond

School City of Hammond

Hammond Middle High School

PLUMBING UNDERSLAB AREA C

PF1C0.1

PF1C0.1 - PLUMBING UNDERSLAB AREA C
2017-105.MHS - HAMMOND HIGH SCHOOL
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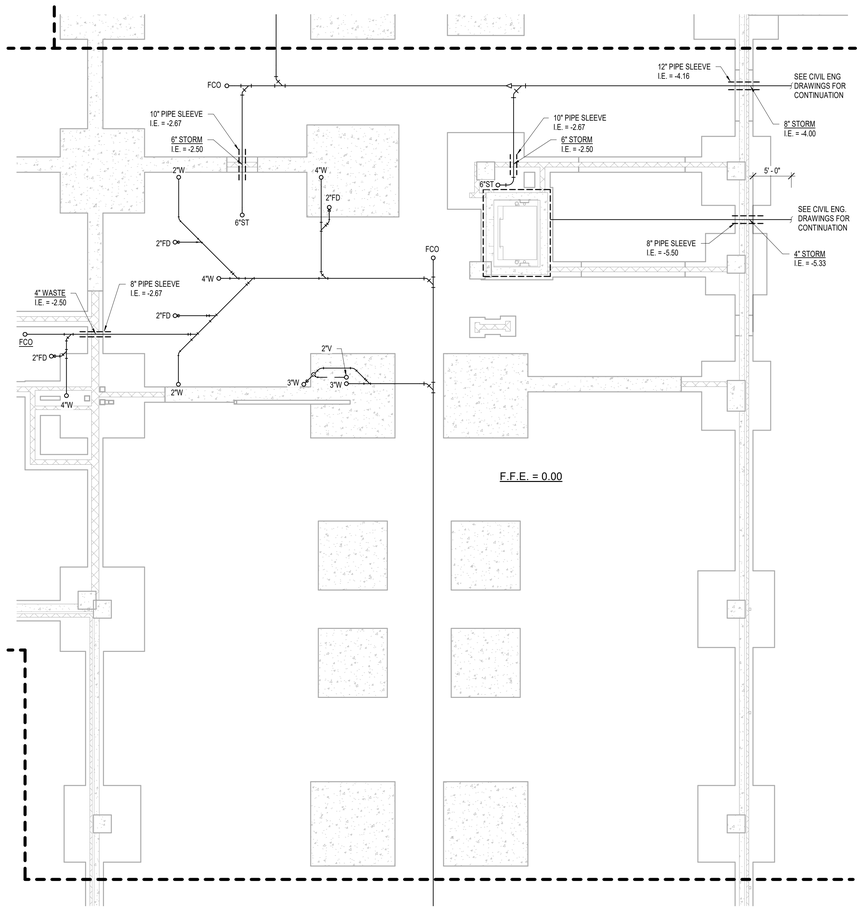

1 PLUMBING UNDERSLAB FLOOR PLAN - AREA D
1/8" = 1'-0"

NOTE:
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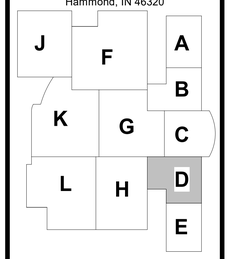


KEY PLAN

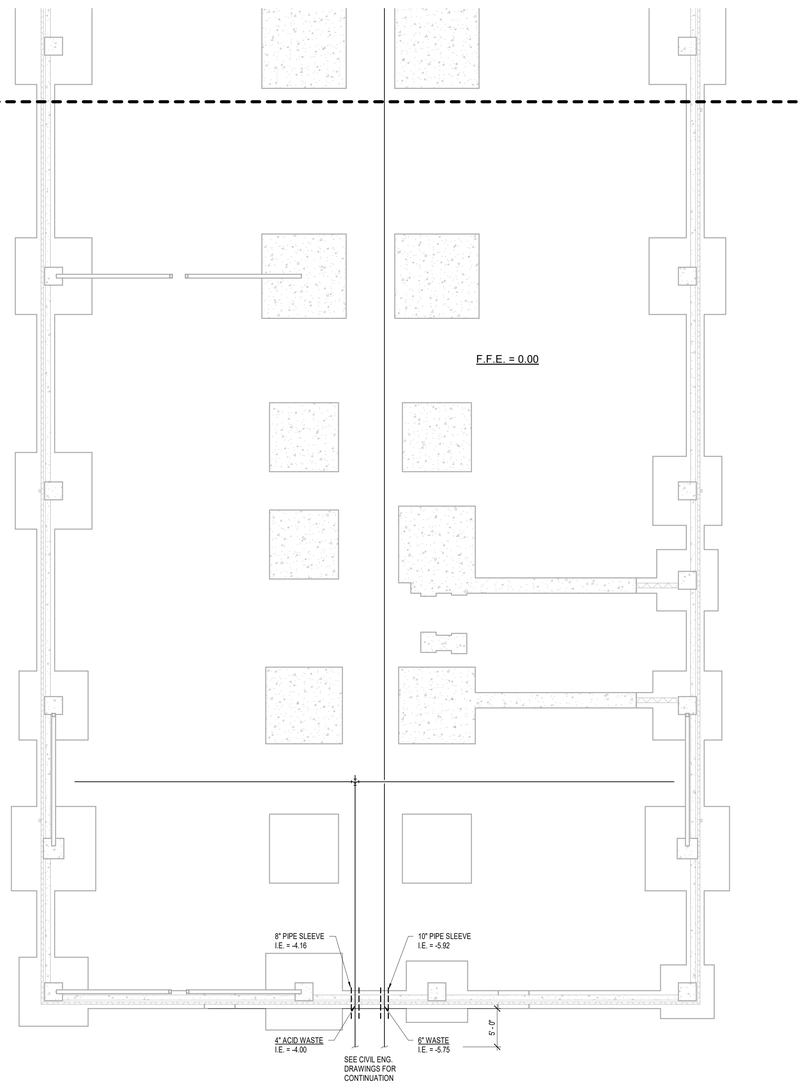
School City of Hammond

School City of Hammond

Hammond Middle High School

PLUMBING UNDERSLAB AREA D

PF1D0.1



1 PLUMBING UNDERSLAB FLOOR PLAN - AREA E

1/8" = 1'-0"

NOTE:
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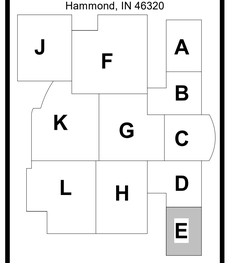


KEY PLAN

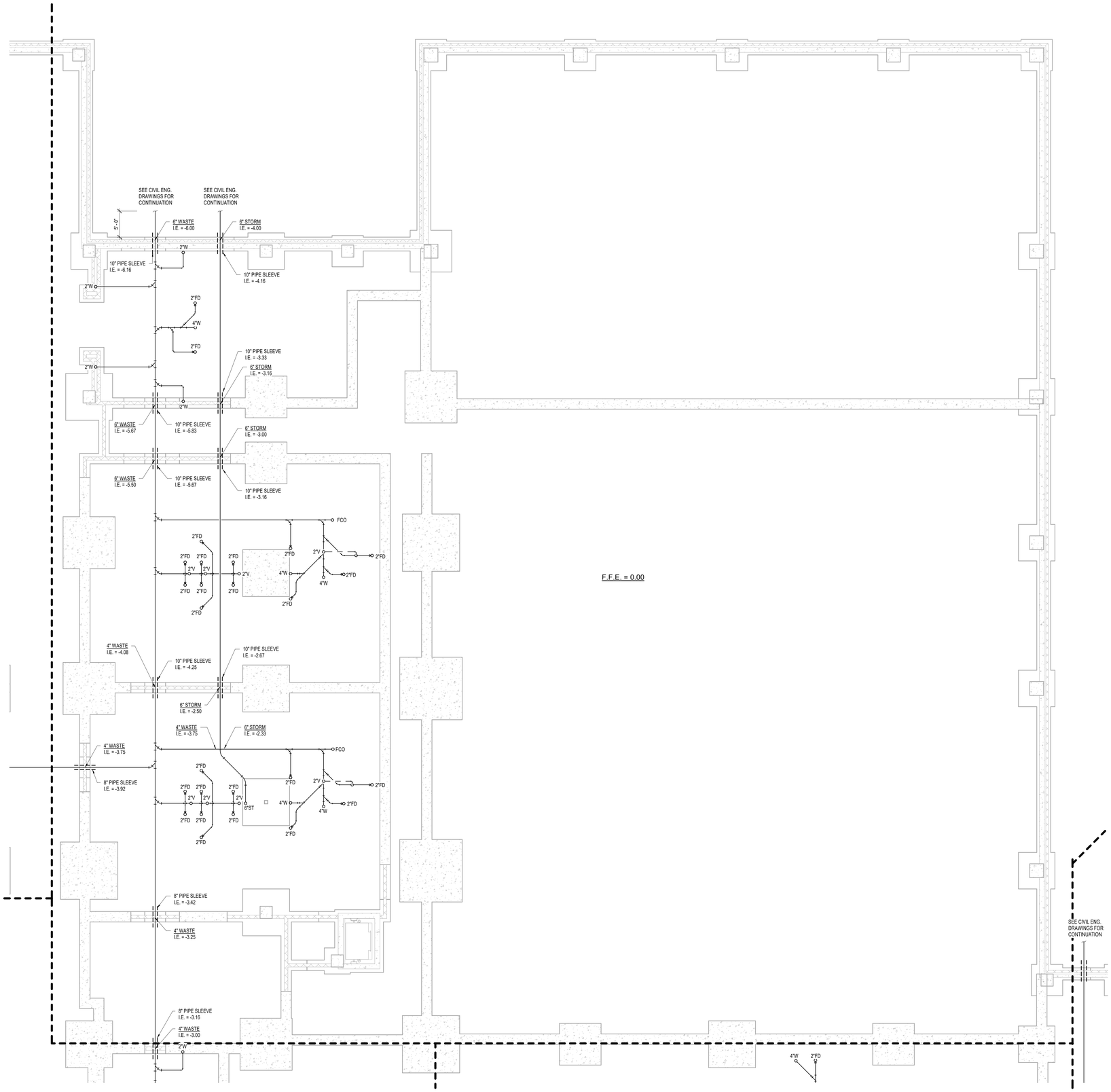
School City of Hammond

School City of Hammond

Hammond Middle High School

PLUMBING UNDERSLAB AREA E

PF1E0.1



1 PLUMBING UNDERSLAB FLOOR PLAN - AREA F
1/8" = 1'-0"

NOTE:
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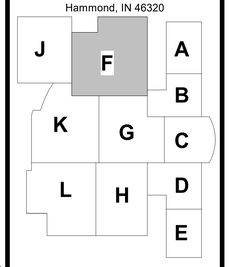

KEY PLAN

School City of Hammond

School City of Hammond

Hammond Middle High School

PLUMBING UNDERSLAB AREA F

PF1F0.1

PF1F0.1 - PLUMBING UNDERSLAB AREA F
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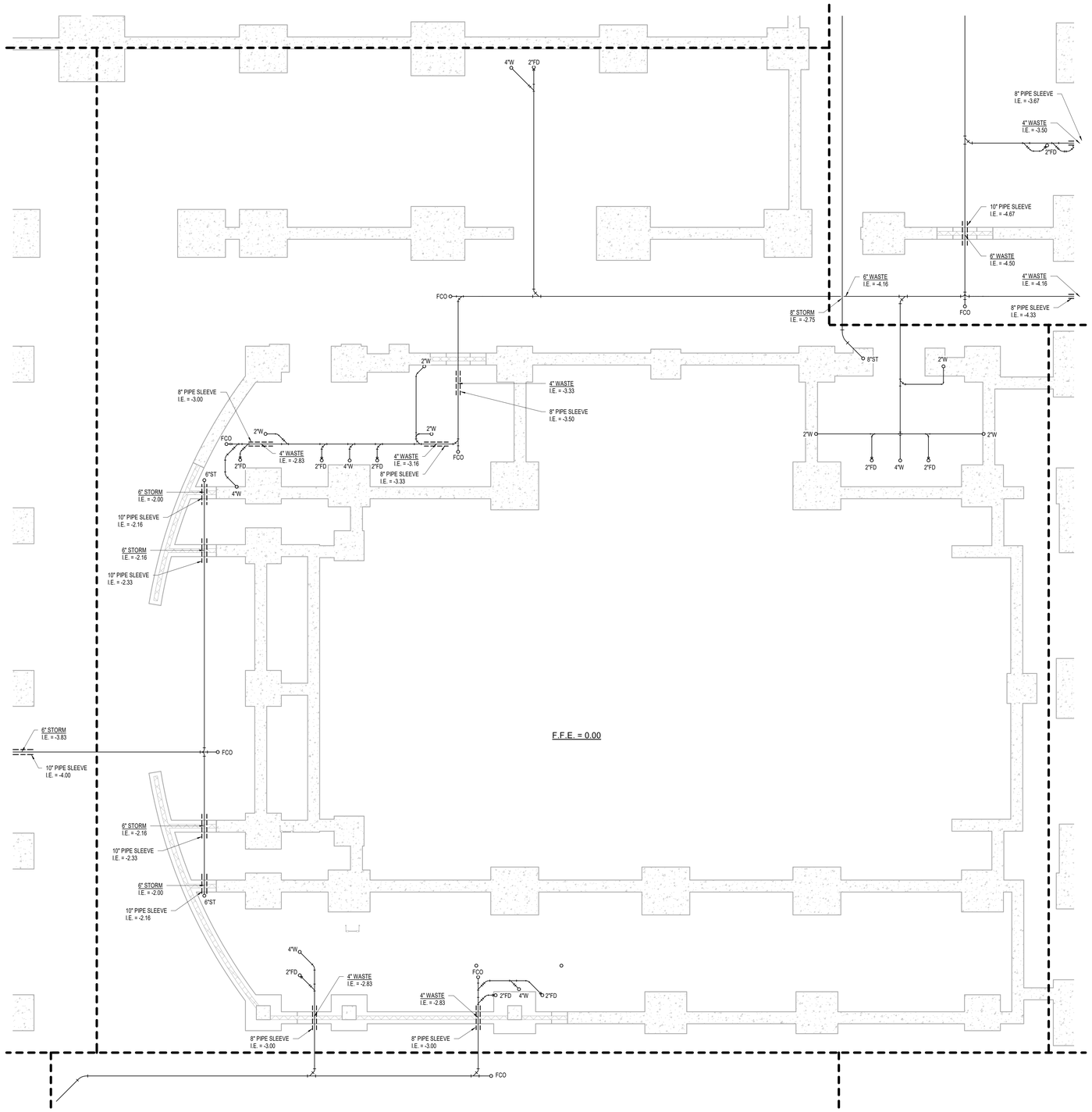

NOTE:
SANITARY AND STORM PIPING SHOWN FOR REFERENCE ONLY PROVIDE PIPE SLEEVES AS PART OF BID PACKAGE I (PIPING WILL BE PART OF BID PACKAGE II)

1 PLUMBING UNDERSLAB FLOOR PLAN - AREA G
1/8" = 1'-0"

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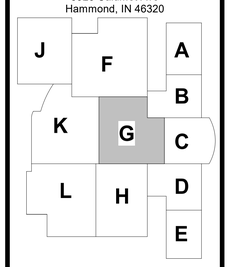


KEY PLAN

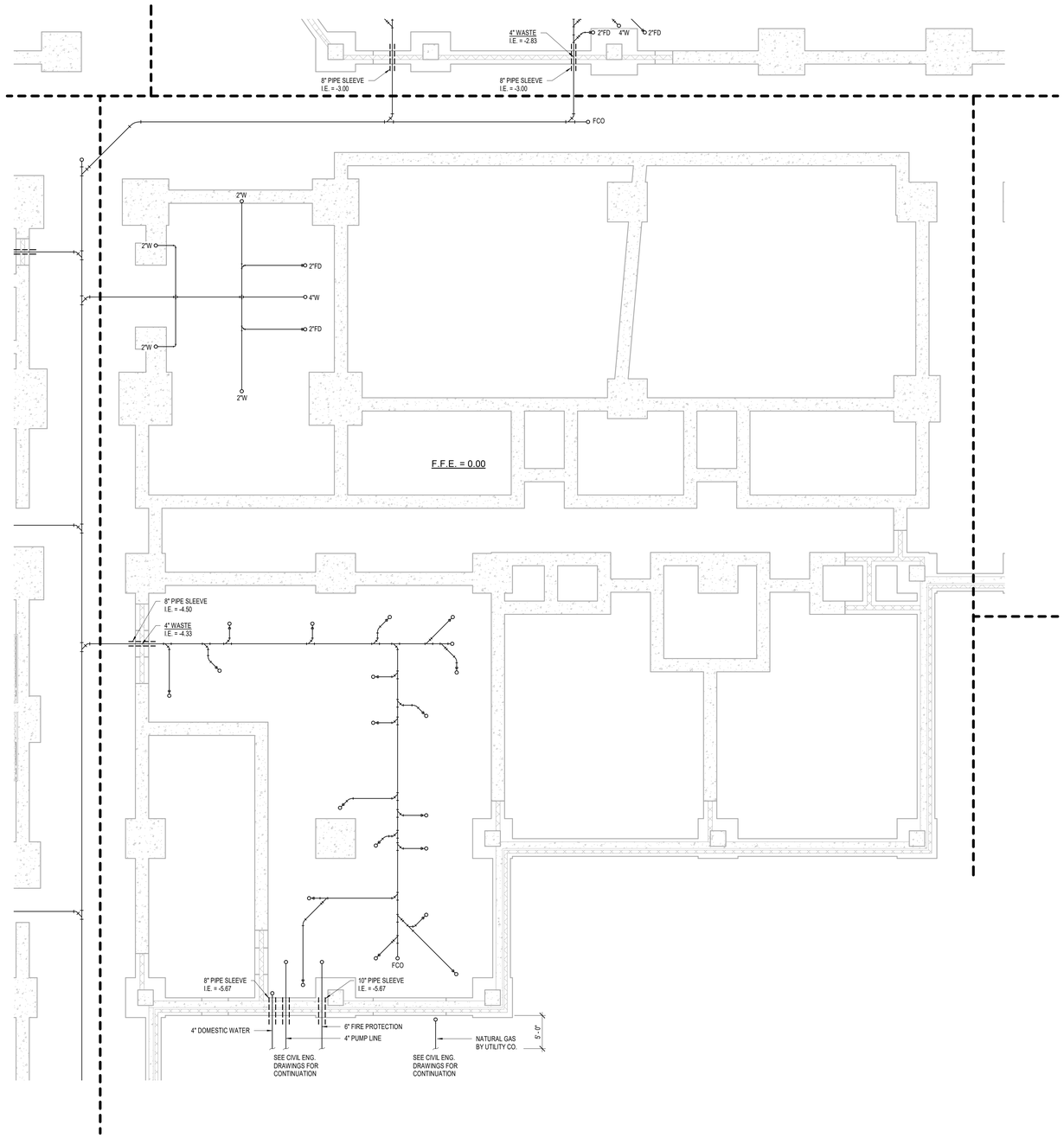
School City of Hammond

School City of Hammond

Hammond Middle High School

PLUMBING UNDERSLAB AREA G

PF1G0.1



1 PLUMBING UNDERSLAB FLOOR PLAN - AREA H
1/8" = 1'-0"

NOTE:
DOMESTIC WATER, FIRE PROTECTION, SANITARY AND STORM PIPING SHOWN FOR REFERENCE ONLY PROVIDE PIPE SLEEVES AS PART OF BID PACKAGE I (PIPING WILL BE PART OF BID PACKAGE II)

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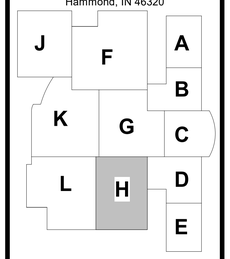

KEY PLAN

N

School City of Hammond

School City of Hammond

Hammond Middle High School

PLUMBING UNDERSLAB AREA H

PF1H0.1

PF1H0.1_PLUMBING UNDERSLAB AREA H
2017-105.MHS_MHS Mechanical Renovations Middle High School
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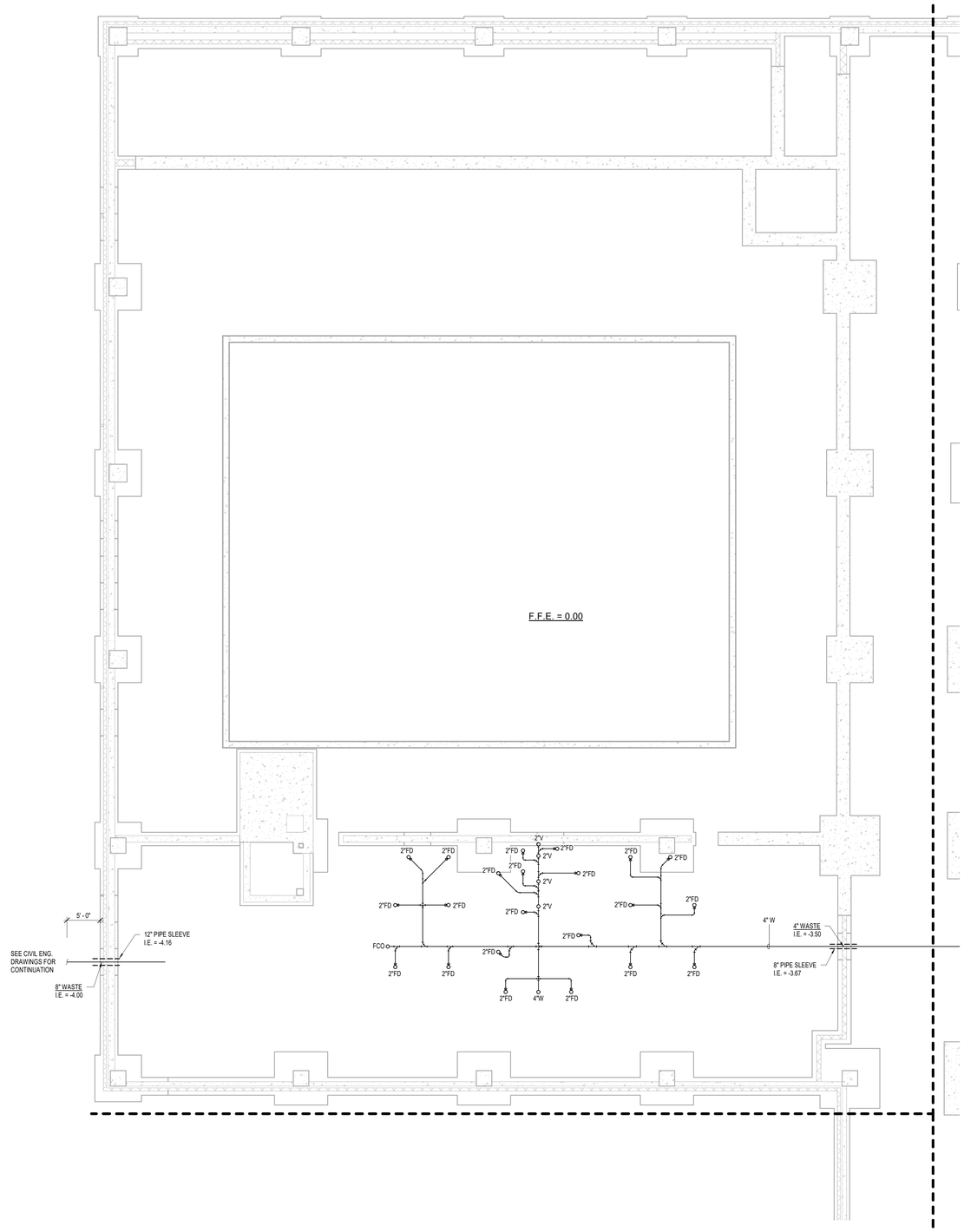

1 PLUMBING UNDERSLAB FLOOR PLAN - AREA J
1/8" = 1'-0"

NOTE:
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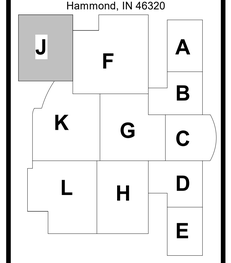

KEY PLAN

School City of Hammond

School City of Hammond

Hammond Middle High School

PLUMBING UNDERSLAB AREA J

PF1J0.1

PF1J0.1 - PLUMBING UNDERSLAB AREA J
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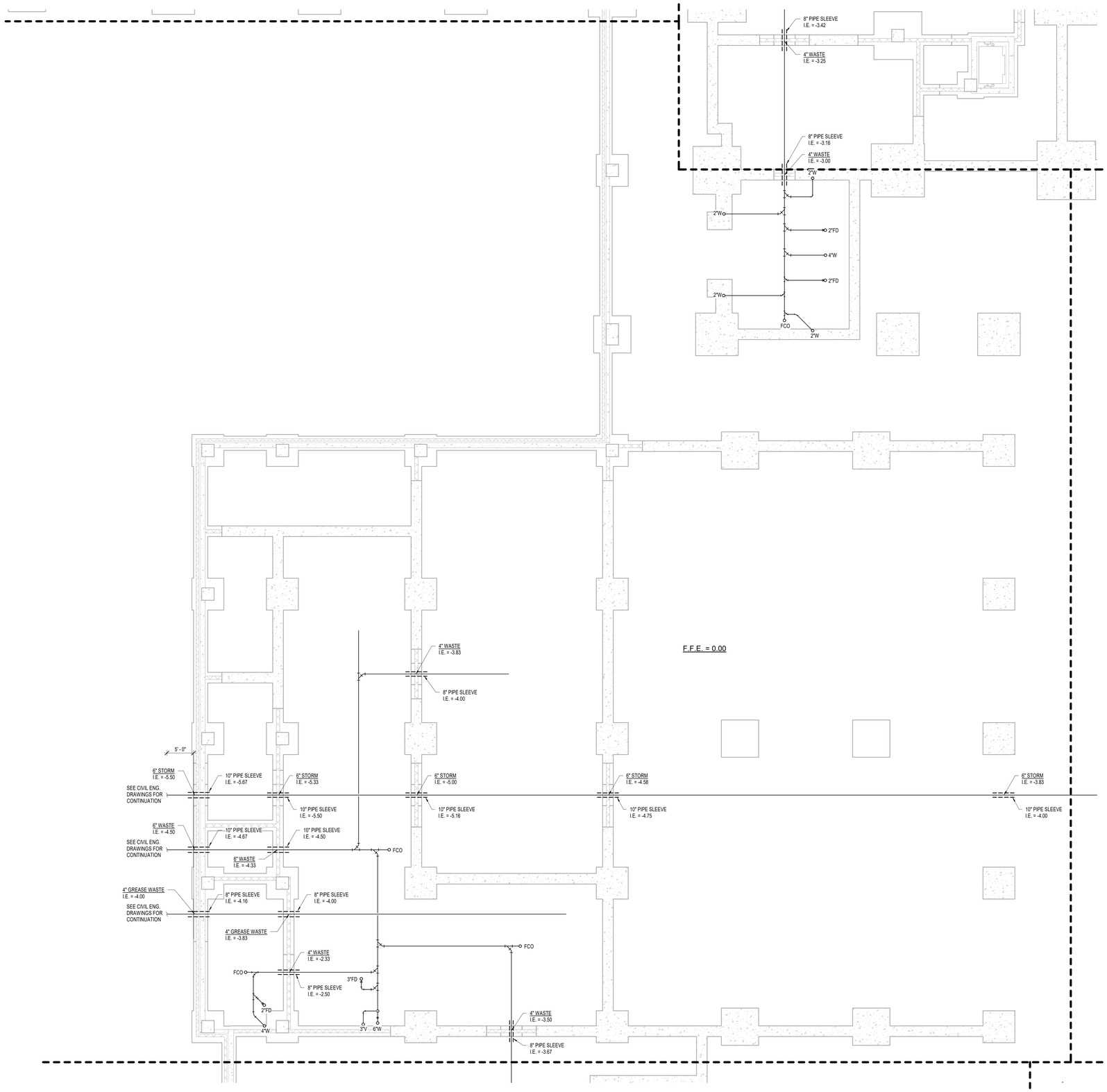

1 PLUMBING UNDERSLAB FLOOR PLAN - AREA K
1/8" = 1'-0"

NOTE:
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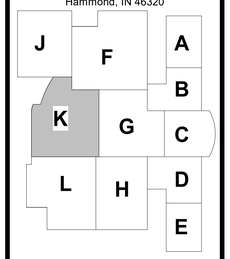


KEY PLAN

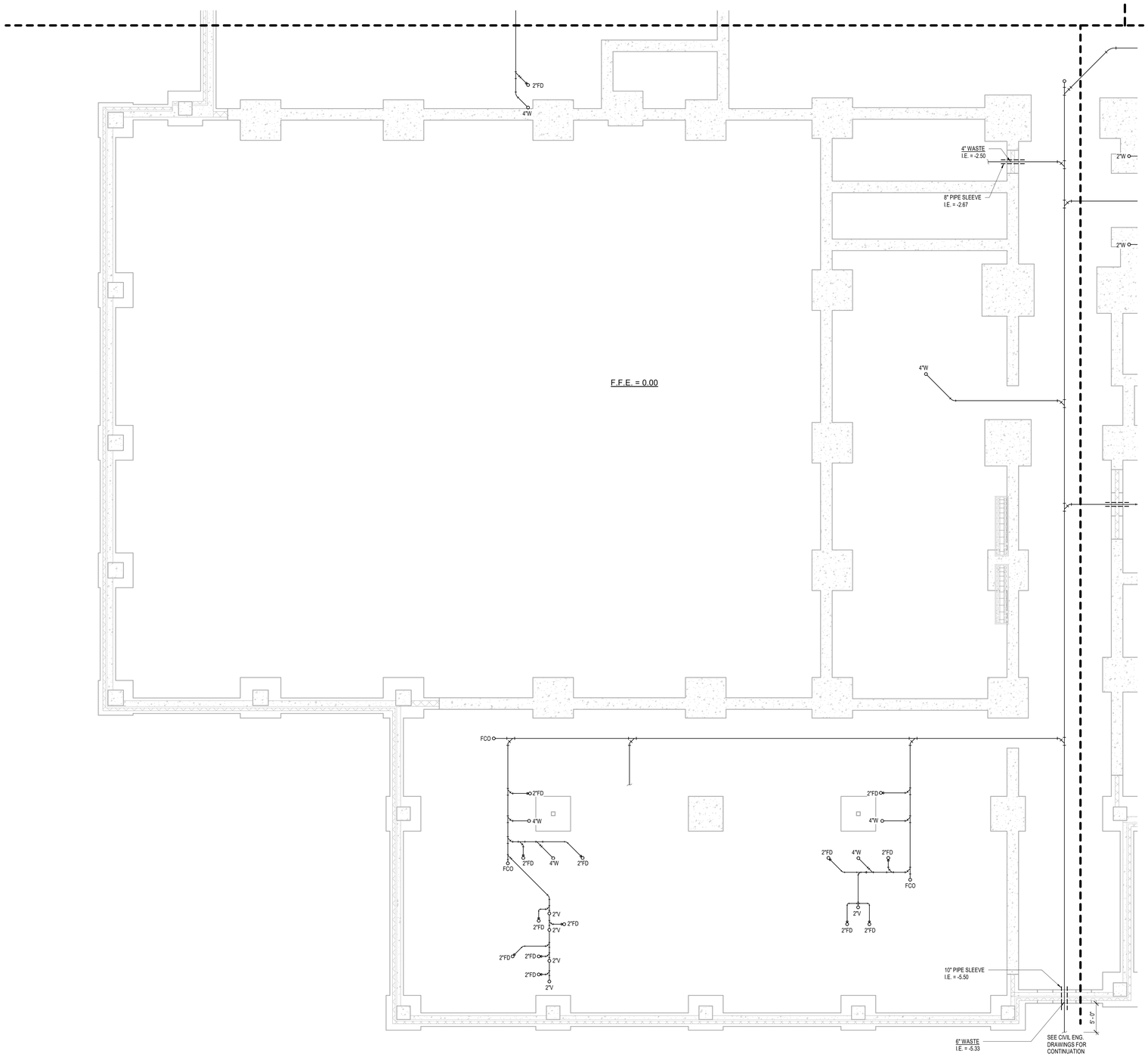
School City of Hammond

School City of Hammond

Hammond Middle High School

PLUMBING UNDERSLAB AREA K

PF1K0.1



NOTE:
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1 PLUMBING UNDERSLAB FLOOR PLAN - AREA L
1/8" = 1'-0"

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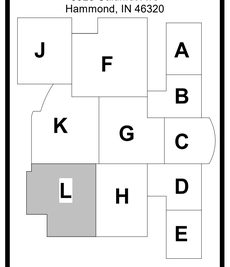

KEY PLAN

School City of Hammond

School City of Hammond

Hammond Middle High School

PLUMBING UNDERSLAB AREA L

PF1L0.1

PF1L0.1 - PLUMBING UNDERSLAB AREA L
2017-105.MHS - Hammond Middle High School
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9/6/2018 10:05:26 AM