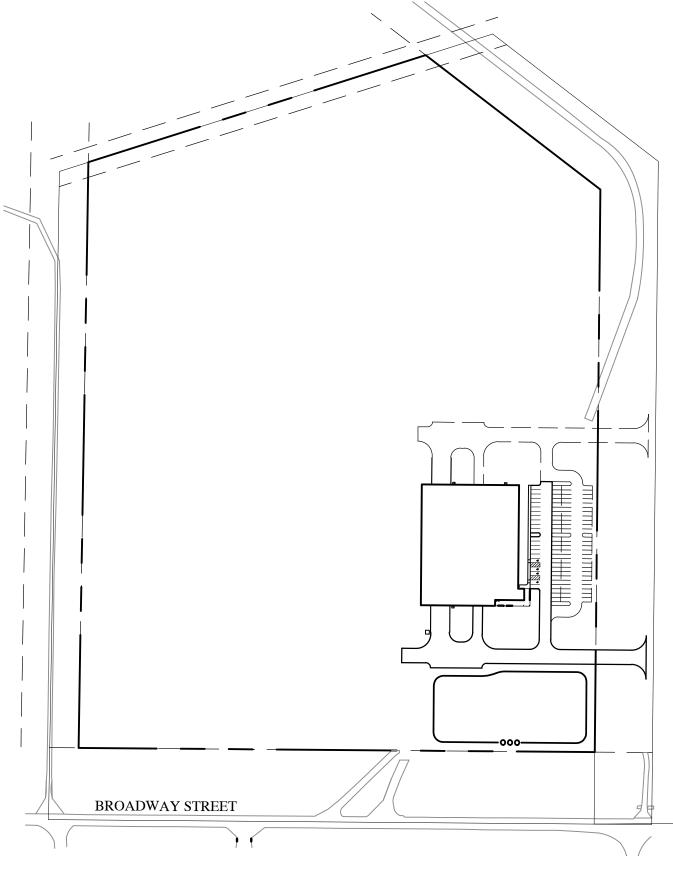
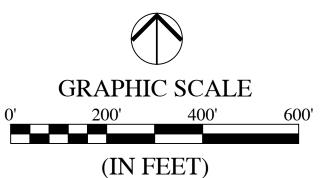


VERMILLION RISE SHELL BUILDING NEWPORT, INDIANA APRIL 22, 2016



ELEV. 646.65 - SOUTHEAST CORNER OF S.R. 63



BY THE CONTRACTOR.

ELECTRIC:

<u>SEWER:</u>



LEGAL DESCRIPTION:

PART OF THE SOUTH HALF OF SECTION 4 AND PART OF THE NORTH HALF OF SECTION 9, TOWNSHIP 16 NORTH, RANGE 9 WEST, VERMILLION CIVIL TOWNSHIP, VERMILLION COUNTY, INDIANA, AND MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT A 5/8 INCH IRON PIN FOUND AT THE SOUTHEAST CORNER OF SAID SECTION 4; THENCE SOUTH 89 DEGREES 26 MINUTES 31 SECONDS WEST 1824.73 FEET TO A MAG NAIL WITH WASHER STAMPED "HENNESSY LS2020026" SET IN THE CENTERLINE OF BROADWAY STREET AND BEING THE POINT OF BEGINNING FOR THE FOLLOWING DESCRIBED TRACT; THENCE NORTH 89 DEGREES 31 MINUTES 28 SECONDS WEST ALONG THE CENTERLINE OF BROADWAY STREET 1256.52 FEET TO A SET MAG NAIL WITH WASHER STAMPED "HENNESSY LS2020026"; THENCE NORTH 00 DEGREES 58 MINUTES 10 SECONDS EAST 1350.35 FEET TO A SET 5/8 INCH IRON PIN WITH CAP STAMPED "K.J. HENNESSY LS20200026; THENCE NORTH 72 DEGREES 23 MINUTES 49 SECONDS EAST 946.57 FEET TO A SET 5/8 INCH IRON PIN WITH CAP STAMPED "K.J. HENNESSY LS20200026": THENCE SOUTH 52 DEGREES 26 MINUTES 26 SECONDS EAST 435.15 FEET TO A SET 5/8 INCH IRON PIN WITH CAP STAMPED "K.J. HENNESSY LS20200026"; THENCE SOUTH 00 DEGREES 33 MINUTES 47 SECONDS WEST 1381.65 FEET TO THE POINT OF BEGINNING, CONTAINING 43.13 ACRES MORE OR LESS.

DEVELOPER/OWNER:

C.H. GARMONG & SON, INC. **3050 POPLAR STREET** TERRE HAUTE, IN 47803 CONTACT: DALE RILEY

SHEET INDEX:

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C1.1	OVERALL LAYOUT PLAN
C1.2	PRE-CONSTRUCTION STORMWATER POLLUTION
	PREVENTION AND DEMOLITION PLAN
C1.3	SITE IMPROVEMENTS PLAN
C1.4	SITE GRADING PLAN
C1.5	SITE DRAINAGE AND UTILITY PLAN
C1.6	POST CONSTRUCTION STORMWATER POLLUTION
	PREVENTION PLAN
C4.0	SANITARY SEWER PLAN & PROFILE
C6.0	STORM SEWER PLAN & PROFILE
C8.0	STORMWATER POLLUTION PREVENTION NOTES
	AND DETAILS
C8.1-8.2	CONSTRUCTION DETAILS
C9.0	SPECIFICATIONS

UTILITY CONTACTS

DUKE ENERGY 1400 INDIANAPOLIS RD. GREENCASTLE, IN 46135 CONTACT: DAWN McDANIEL (765) 658–2225

NEWPORT CHEMICAL DEPOT REUSE AUTHORITY 1051 W. INDIANA AVE. HILLSDALE, IN 47854 CONTACT: LEN HELT (765) 245–2415 EXT. 106

VECTREN ENERGY 457 S. FIRST ST. TERRE HAUTE, IN 47808 CONTACT: SCOTT GAMBILL (812) 231-6433

<u>GAS:</u>

<u>WATER:</u> NEWPORT CHEMICAL DEPOT REUSE AUTHORITY 1051 W. INDIANA AVE. HILLSDALE, IN 47854 CONTACT: LEN HELT (765) 245–2415 EXT. 106

TELEPHONE: AT&T 5858 N. COLLEGE AVE. INDIANAPOLIS, IN 46220

CABLE: NEW WAVE COMMUNICATIONS 1783 S.R. 163 CLINTON, IN 48742 CONTACT: (812) 420-2145

OVERALL GENERAL PROJECT NOTES:

1. NOT ALL GAS, POWER, OR TELEPHONE LINES, WHETHER ABOVE OR BELOW GROUND, HAVE BEEN SHOWN ON THE DRAWINGS. ANY UNDERGROUND INFORMATION SHOWN ON THE DRAWINGS HAS BEEN DETERMINED FROM THE BEST AVAILABLE INFORMATION AND IS GIVEN FOR THE CONTRACTORS BENEFIT. THE CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY FOR PROTECTING ALL UTILITIES IN HIS WORK AREA WHETHER SHOWN OR NOT, AND MUST REALIZE THAT THE ACTUAL LOCATION OF THE UTILITIES MAY BE DIFFERENT FROM THAT SHOWN ON THE DRAWINGS. ALL EXISTING UTILITIES ENCOUNTERED IN THE WORK, WHETHER IN PUBLIC RIGHTS OF WAY OR ON PRIVATE PROPERTY, SHALL BE THE CONTRACTORS RESPONSIBILITY TO MAINTAIN IN SERVICE ANY UTILITIES WHICH CAN BE REMOVED DURING CONSTRUCTION WITHOUT UNDUE INTERRUPTION TO SERVICE MAY BE REMOVED AND REPLACED BY THE CONTRACTOR WITH THE PERMISSION OF THE UTILITY, IF MINOR CONFLICTS ARISE, THE CONTRACTOR MAY SHIFT THE PROPOSED LOCATION OF THE INSTALLATION OF THE WORK. BEFORE WORKING WITH OR AROUND UTILITIES, THE APPLICABLE UTILITY COMPANY SHALL BE NOTIFIED

2. SAFETY PROVISIONS FOR THE WORK SHALL BE IN FULL COMPLIANCE WITH ALL APPLICABLE RULES AND REGULATIONS OF THE INDIANA OSHA AND ANY OTHER LOCAL STATE OR FEDERAL AGENCY HAVING JURISDICTION. IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. CONTRACTOR SHALL AT MINIMUM, PROVIDE TRAFFIC CONTROL AS REQUIRED TO SAFELY PROTECT THE GENERAL PUBLIC, THE CONTRACTOR'S WORK FORCES AND THE WORK. TRAFFIC CONTROL SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST EDITION OF THE INDIANA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, AND THE INDIANA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, SPECIAL PROVISIONS, STANDARD DETAILS AND GENERAL INSTRUCTIONS TO FIELD EMPLOYEES. THE REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT TO BE LIMITED TO NORMAL WORKING HOURS. THE OPTION OF THE OWNER AND/OR ENGINEER TO CONDUCT CONSTRUCTION REVIEW OF THE CONTRACTOR'S PERFORMANCE IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES, IN, ON OR NEAR THE CONSTRUCTION SITE. CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING ALL BARRICADES, FENCES, WARNING SIGNS, FLASHING LIGHTS, TEMPORARY WALKWAYS, AND TRAFFIC CONTROL DURING CONSTRUCTION. CONTRACTOR TO COMPLY WITH ALL OSHA REGULATIONS, REQUIREMENTS, SAFETY MEETING REQUIREMENTS AND AGENCY REQUIREMENTS FOR TRAFFIC CONTROL AND SAFETY PRECAUTIONS, THERE WILL BE NO SEPARATE OR ADDITIONAL PAYMENT FOR THIS WORK.

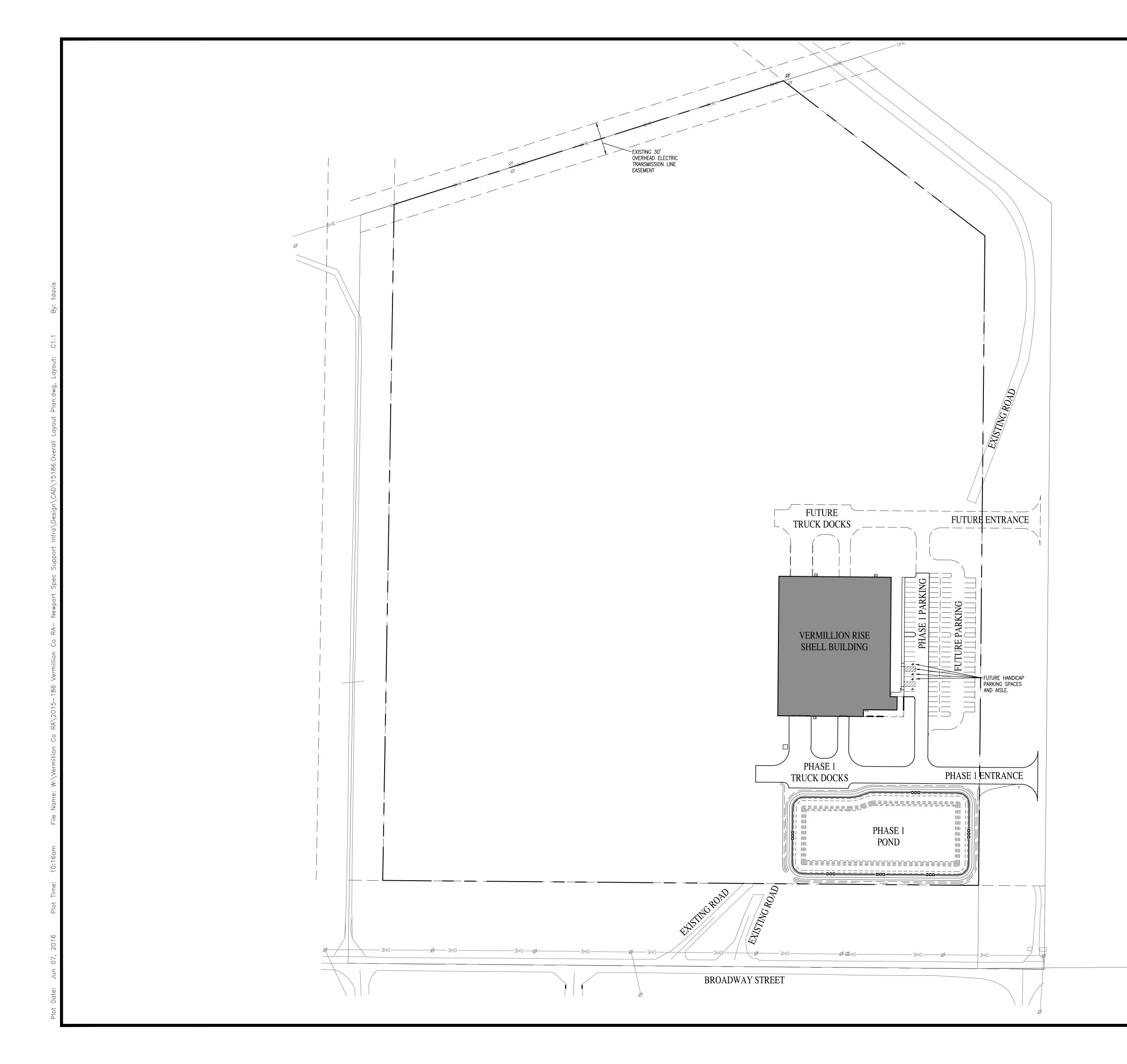
WHERE PROPERTY MARKERS, SECTION CORNERS, SURVEY MARKS OR BENCHMARKS, SUCH AS STONES, PIPES, OR OTHER SUCH MONUMENTS ARE ENCOUNTERED AND CONFLICT WITH THE WORK, THE ENGINEER SHALL BE NOTIFIED BEFORE THEY ARE DISTURBED, THE MARKERS SHALL BE PROTECTED AFTER THE OWNER, ENGINEER, AND AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR REFERENCED THEIR LOCATIONS.

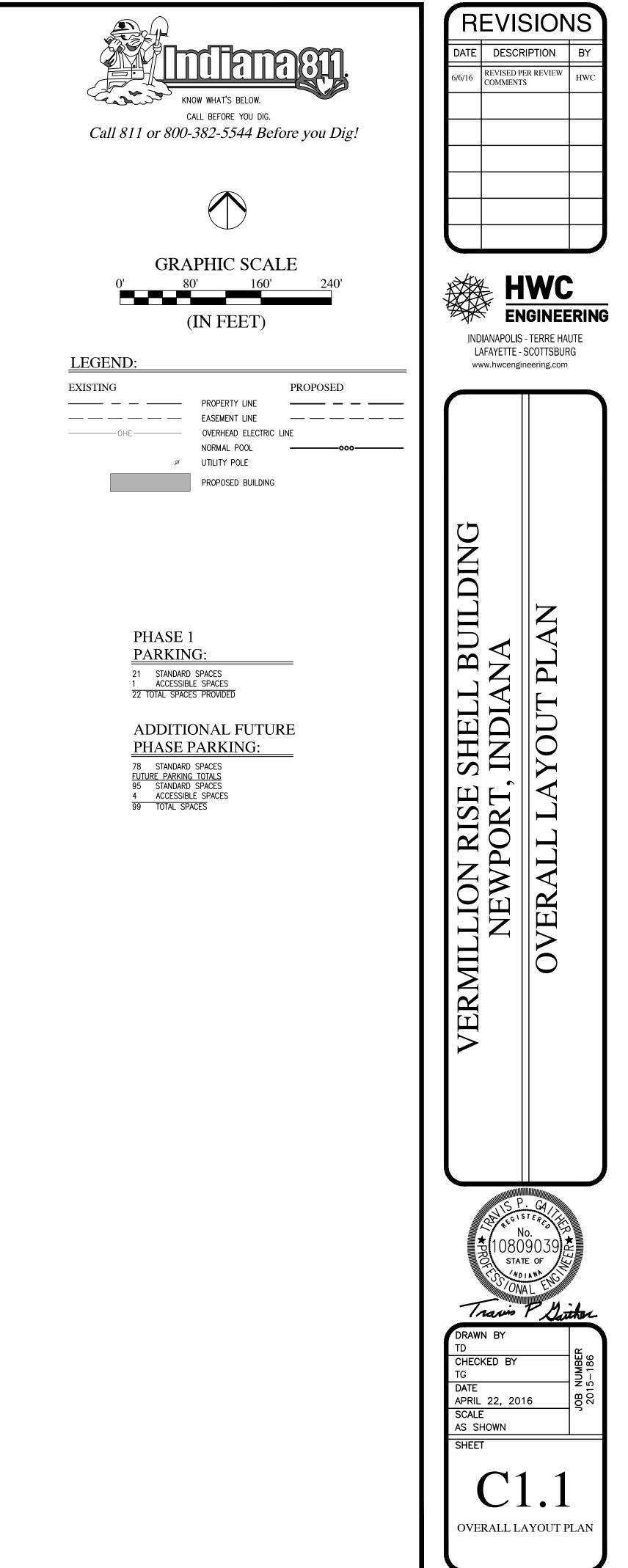
4. ALL MATERIALS DENOTED "SALVAGED" SHALL BE STORED AND PROTECTED AT THE SITE FOR THE OWNER TO COLLECT OR FOR THE CONTRACTOR TO RE-USE AS INDICATED.

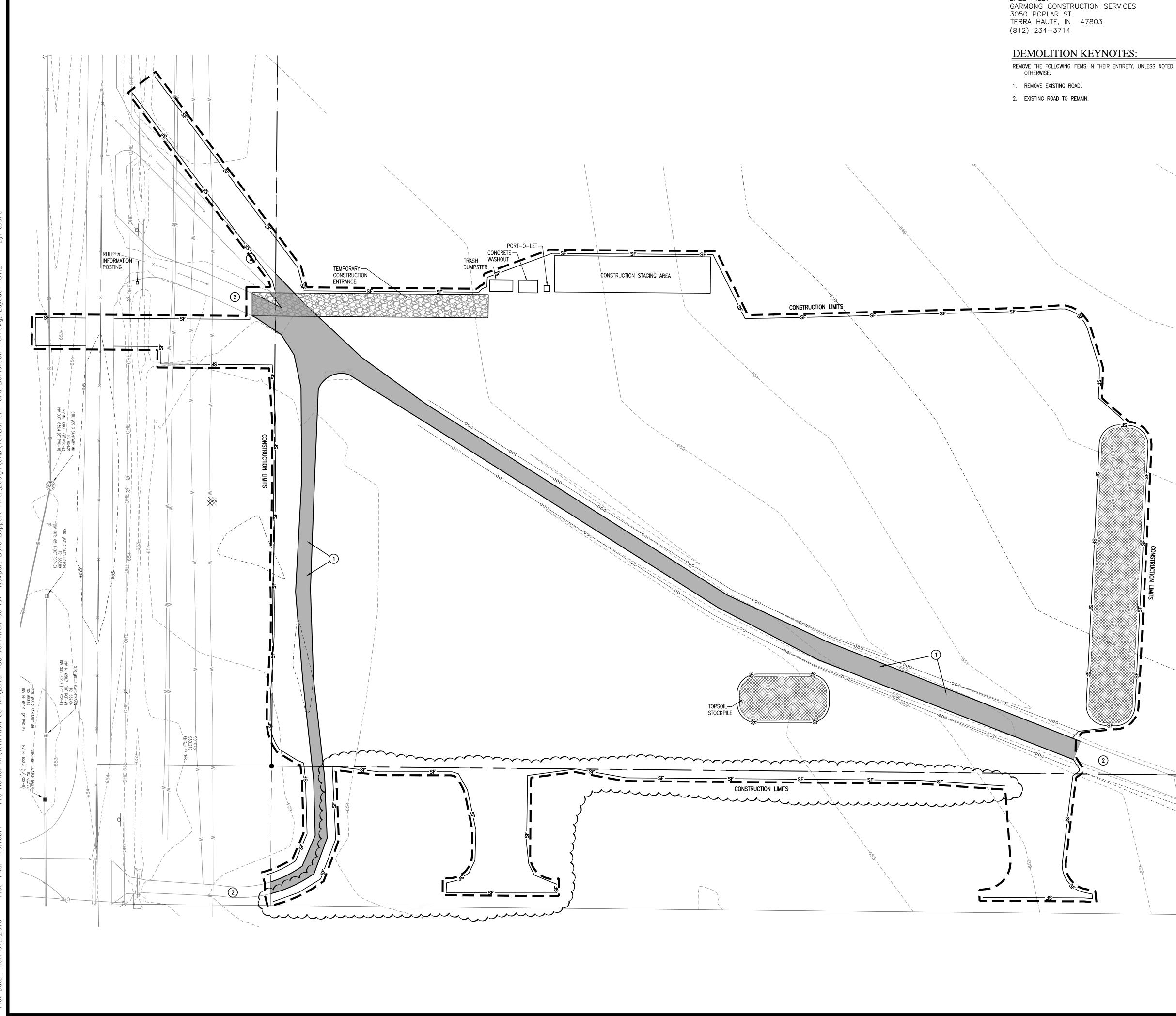
5. THERE SHALL BE NO CHANGES WITHOUT WRITTEN APPROVAL OF ENGINEER.

6. PLANS AND SPECIFICATIONS REFERENCE ARCHITECT, ENGINEER AND LANDSCAPE ARCHITECT INTERCHANGEABLY THROUGHOUT

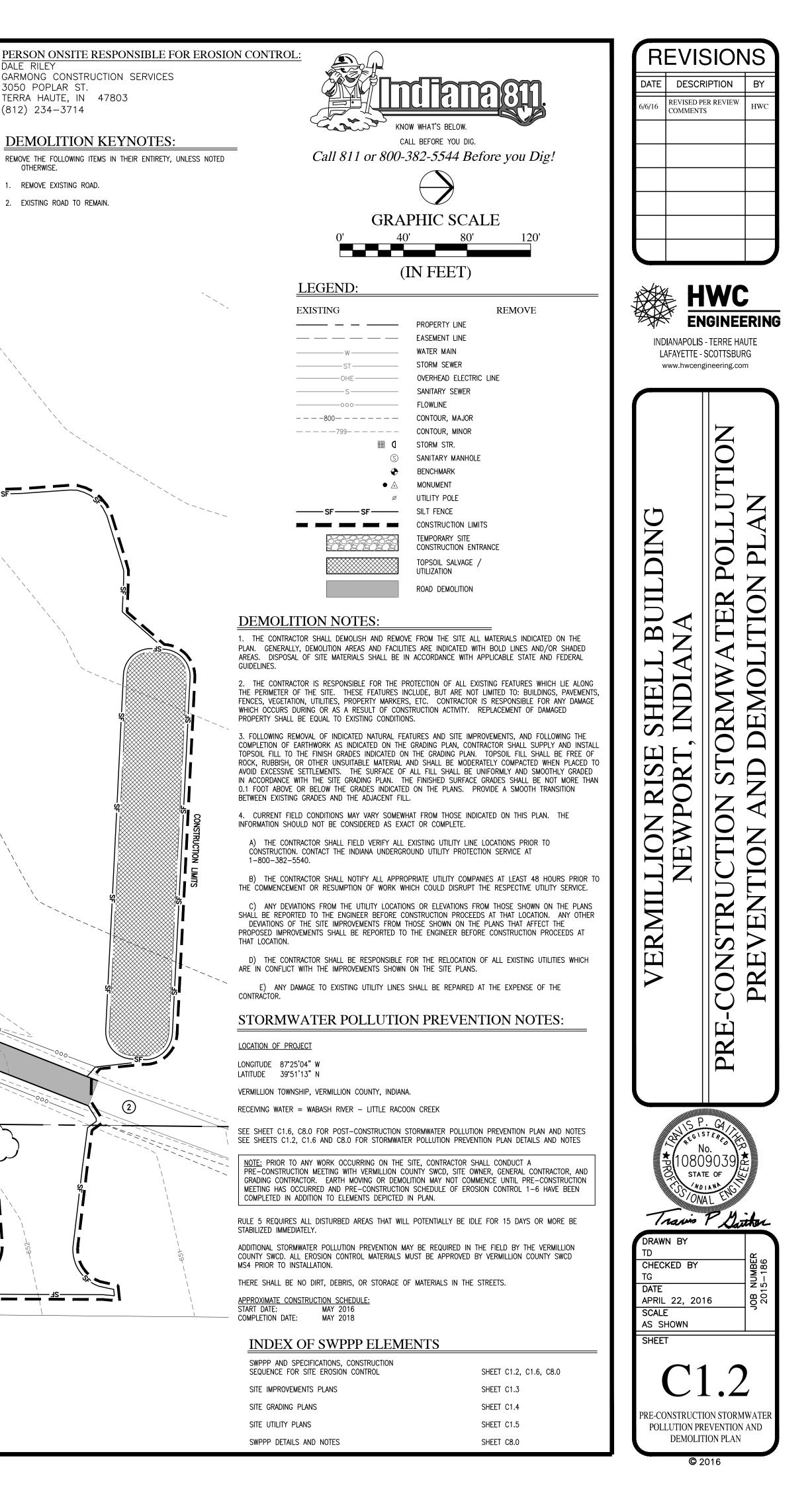
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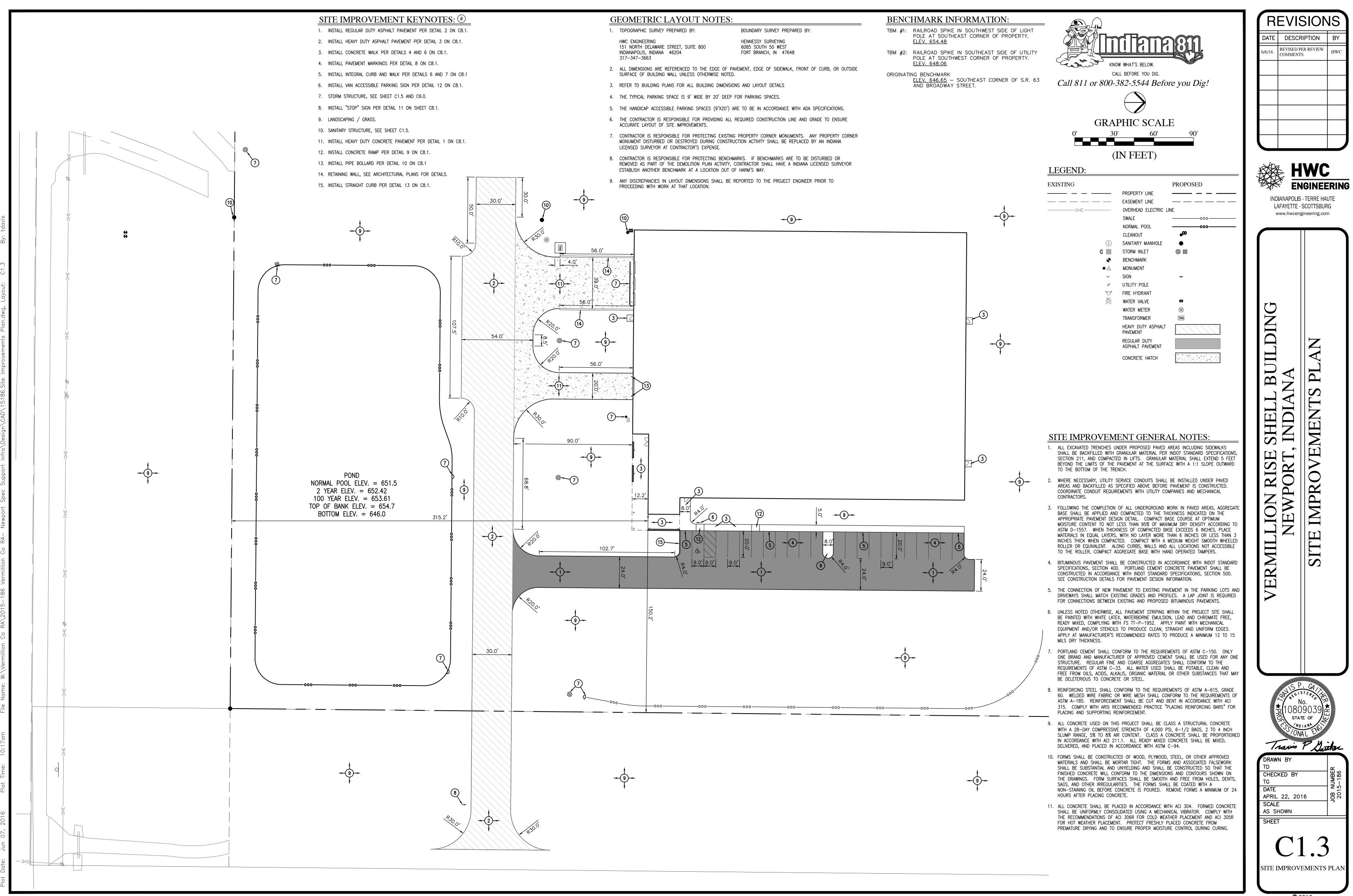


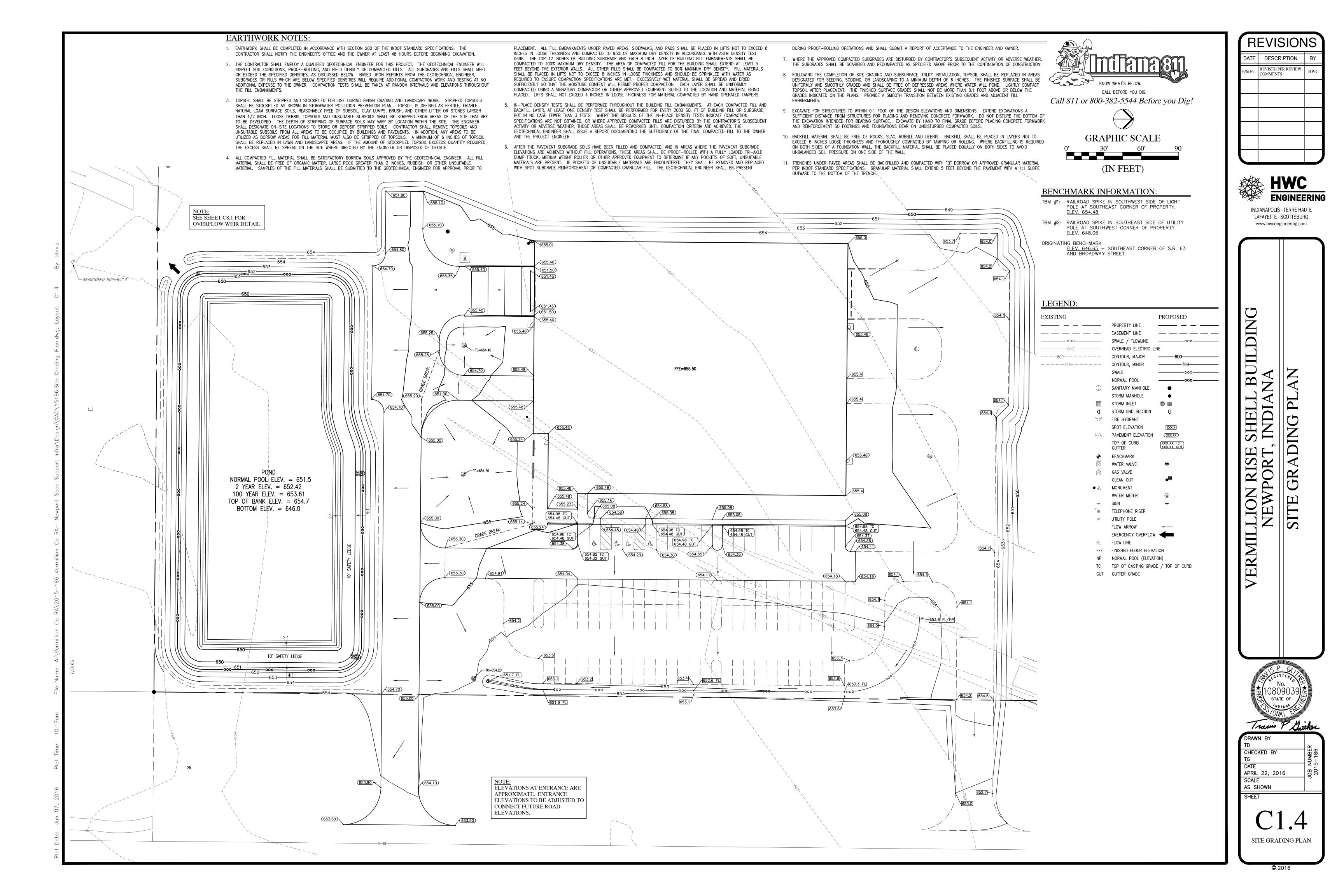


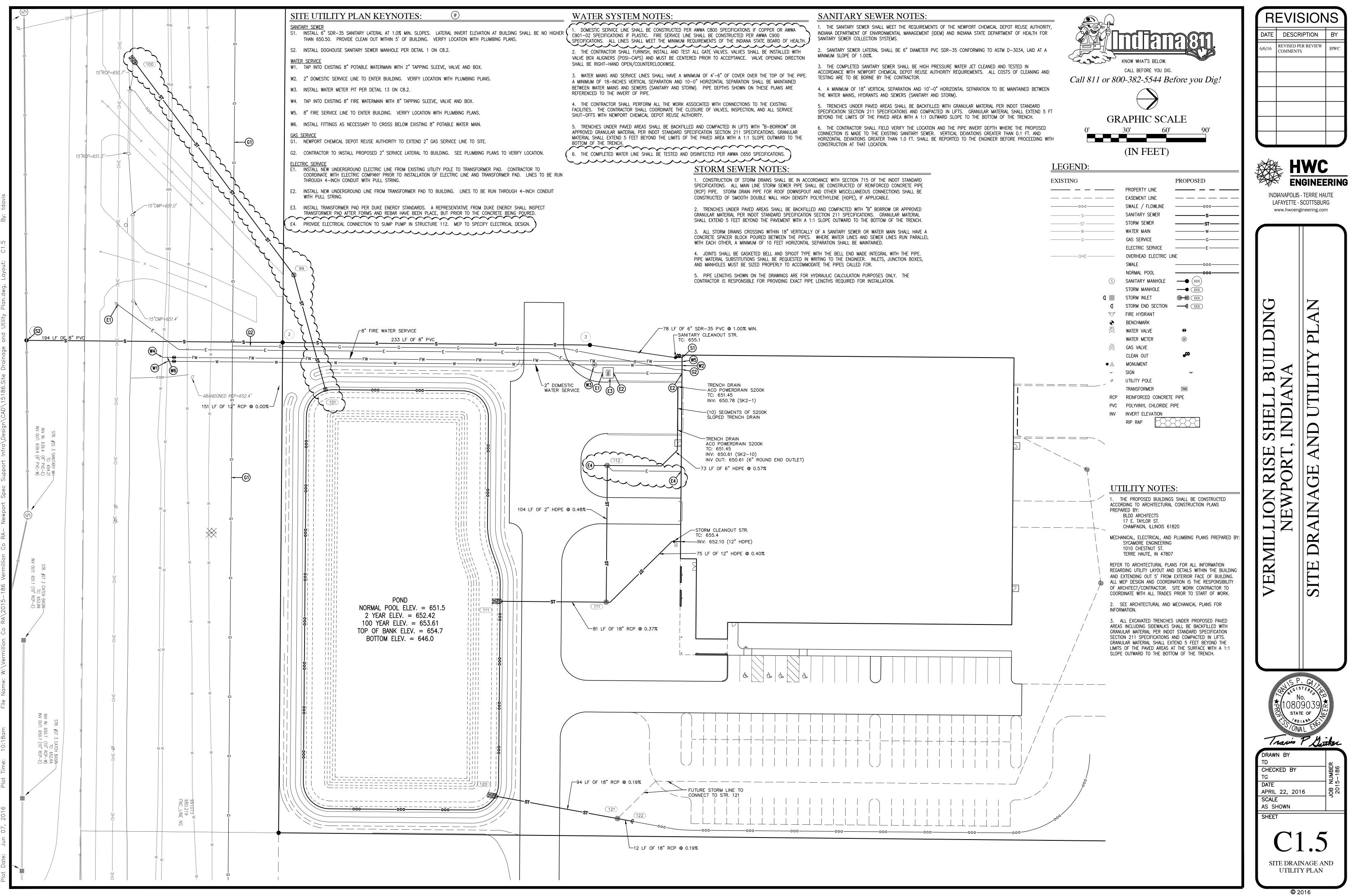


DALE RILEY

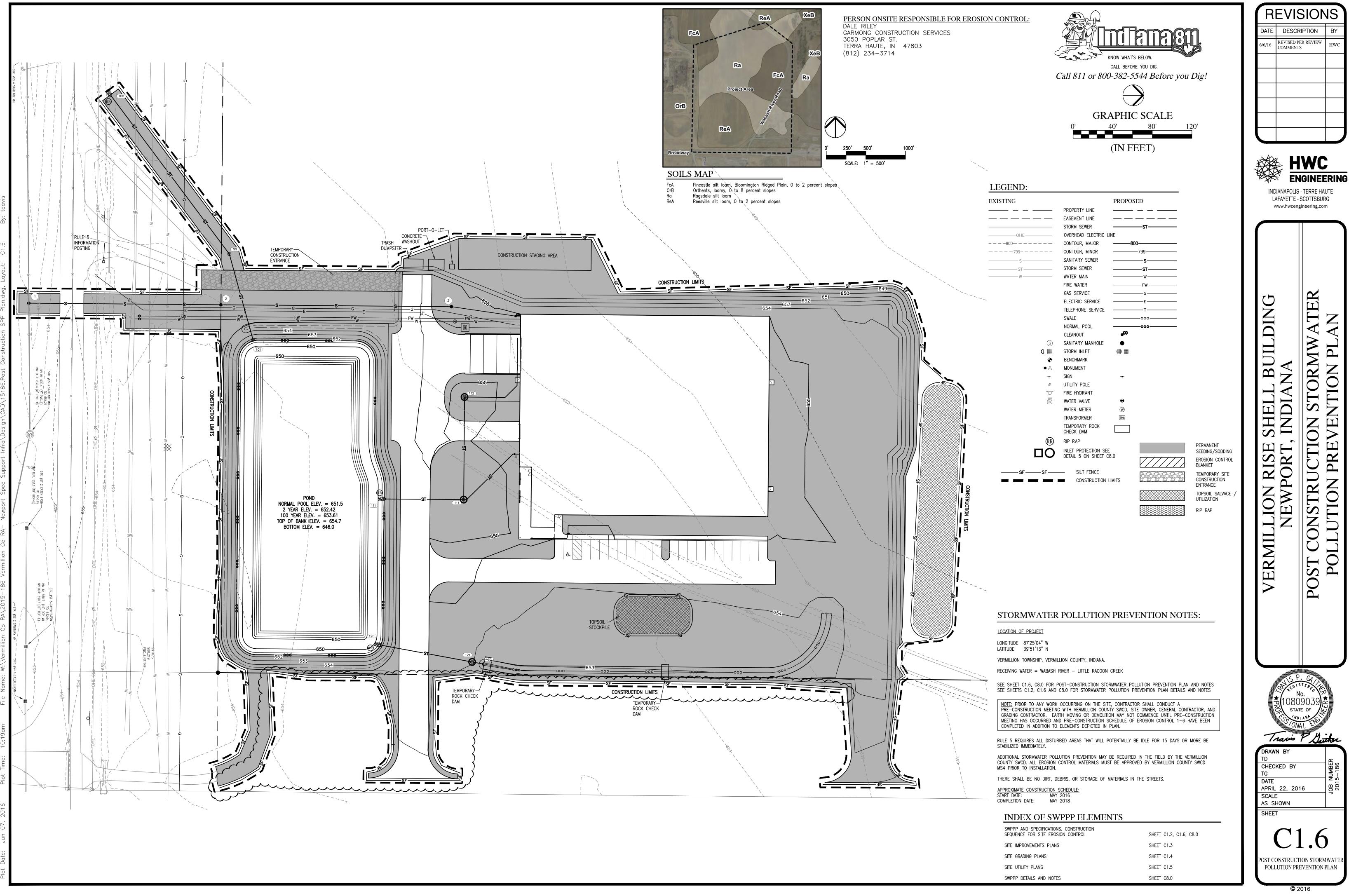


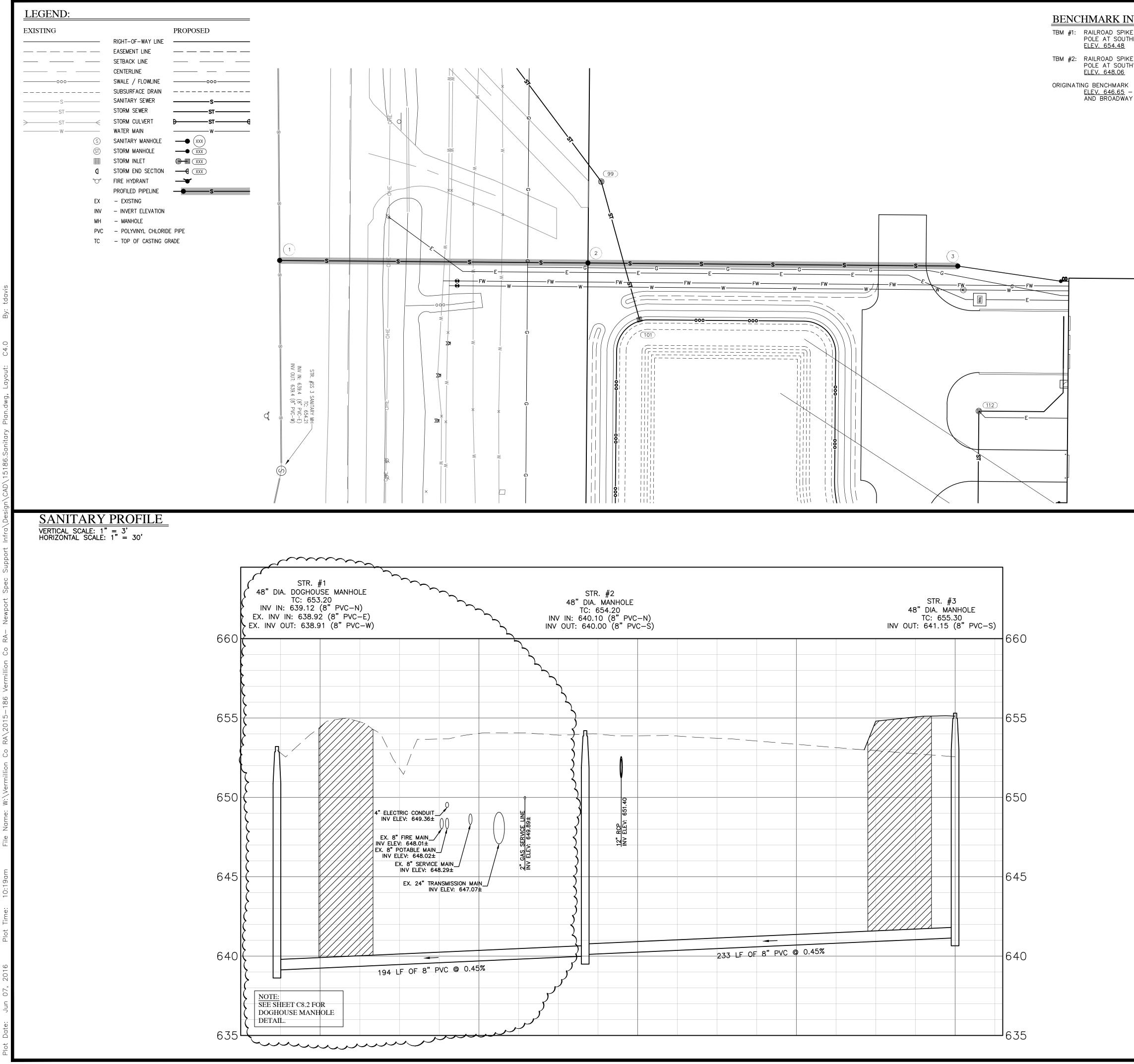






(#)	WATER SYSTEM NOTES:	SANITARY SEWER NOTES:
ATERAL INVERT ELEVATION AT BUILDING SHALL BE NO HIGHER	1. DOMESTIC SERVICE LINE SHALL BE CONSTRUCTED PER AWWA C800 SPECIFICATIONS IF COPPER OR AWWA C901-02 SPECIFICATIONS IF PLASTIC. FIRE SERVICE LINE SHALL BE CONSTRUCTED PER AWWA C900 SPECIFICATIONS. ALL LINES SHALL MEET THE MINIMUM REQUIREMENTS OF THE INDIANA STATE BOARD OF HEALTH.	1. THE SANITARY SEWER SHALL MEET THE REQUIREME INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT SANITARY SEWER COLLECTION SYSTEMS.
C8.2.	2. THE CONTRACTOR SHALL FURNISH, INSTALL AND TEST ALL GATE VALVES. VALVES SHALL BE INSTALLED WITH VALVE BOX ALIGNERS (POSI-CAPS) AND MUST BE CENTERED PRIOR TO ACCEPTANCE. VALVE OPENING DIRECTION	2. SANITARY SEWER LATERAL SHALL BE 6" DIAMETER MINIMUM SLOPE OF 1.00%.
EVE, VALVE AND BOX.	SHALL BE RIGHT-HAND OPEN/COUNTERCLOCKWISE.	3. THE COMPLETED SANITARY SEWER SHALL BE HIGH
N WITH PLUMBING PLANS.	3. WATER MAINS AND SERVICE LINES SHALL HAVE A MINIMUM OF 4'-6" OF COVER OVER THE TOP OF THE PIPE. A MINIMUM OF 18-INCHES VERTICAL SEPARATION AND 10-0" HORIZONTAL SEPARATION SHALL BE MAINTAINED	ACCORDANCE WITH NEWPORT CHEMICAL DEPOT REUSE TESTING ARE TO BE BORNE BY THE CONTRACTOR.
	BETWEEN WATER MAINS AND SEWERS (SANITARY AND STORM). PIPE DEPTHS SHOWN ON THESE PLANS ARE REFERENCED TO THE INVERT OF PIPE.	4. A MINIMUM OF 18" VERTICAL SEPARATION AND 10 THE WATER MAINS, HYDRANTS AND SEWERS (SANITARY
VALVE AND BOX.	4. THE CONTRACTOR SHALL PERFORM ALL THE WORK ASSOCIATED WITH CONNECTIONS TO THE EXISTING	5. TRENCHES UNDER PAVED AREAS SHALL BE BACKF
H PLUMBING PLANS.	FACILITIES. THE CONTRACTOR SHALL COORDINATE THE CLOSURE OF VALVES, INSPECTION, AND ALL SERVICE SHUT-OFFS WITH NEWPORT CHEMICAL DEPOT REUSE AUTHORITY.	SPECIFICATION SECTION 211 SPECIFICATIONS AND COMI BEYOND THE LIMITS OF THE PAVED AREA WITH A 1:1
POTABLE WATER MAIN.	5. TRENCHES UNDER PAVED AREAS SHALL BE BACKFILLED AND COMPACTED IN LIFTS WITH "B–BORROW" OR APPROVED GRANULAR MATERIAL PER INDOT STANDARD SPECIFICATION SECTION 211 SPECIFICATIONS. GRANULAR	6. THE CONTRACTOR SHALL FIELD VERIFY THE LOCATI CONNECTION IS MADE TO THE EXISTING SANITARY SEWI
SERVICE LINE TO SITE.	MATERIAL SHALL EXTEND 5 FEET BEYOND THE LIMITS OF THE PAVED AREA WITH A 1:1 SLOPE OUTWARD TO THE BOTTOM OF THE TRENCH.	HORIZONTAL DEVIATIONS GREATER THAN 1.0 FT. SHALL CONSTRUCTION AT THAT LOCATION.
DING. SEE PLUMBING PLANS TO VERIFY LOCATION.	6. THE COMPLETED WATER LINE SHALL BE TESTED AND DISINFECTED PER AWWA C650 SPECIFICATIONS.	
Y POLE TO TRANSFORMER PAD. CONTRACTOR TO	STORM SEWER NOTES:	

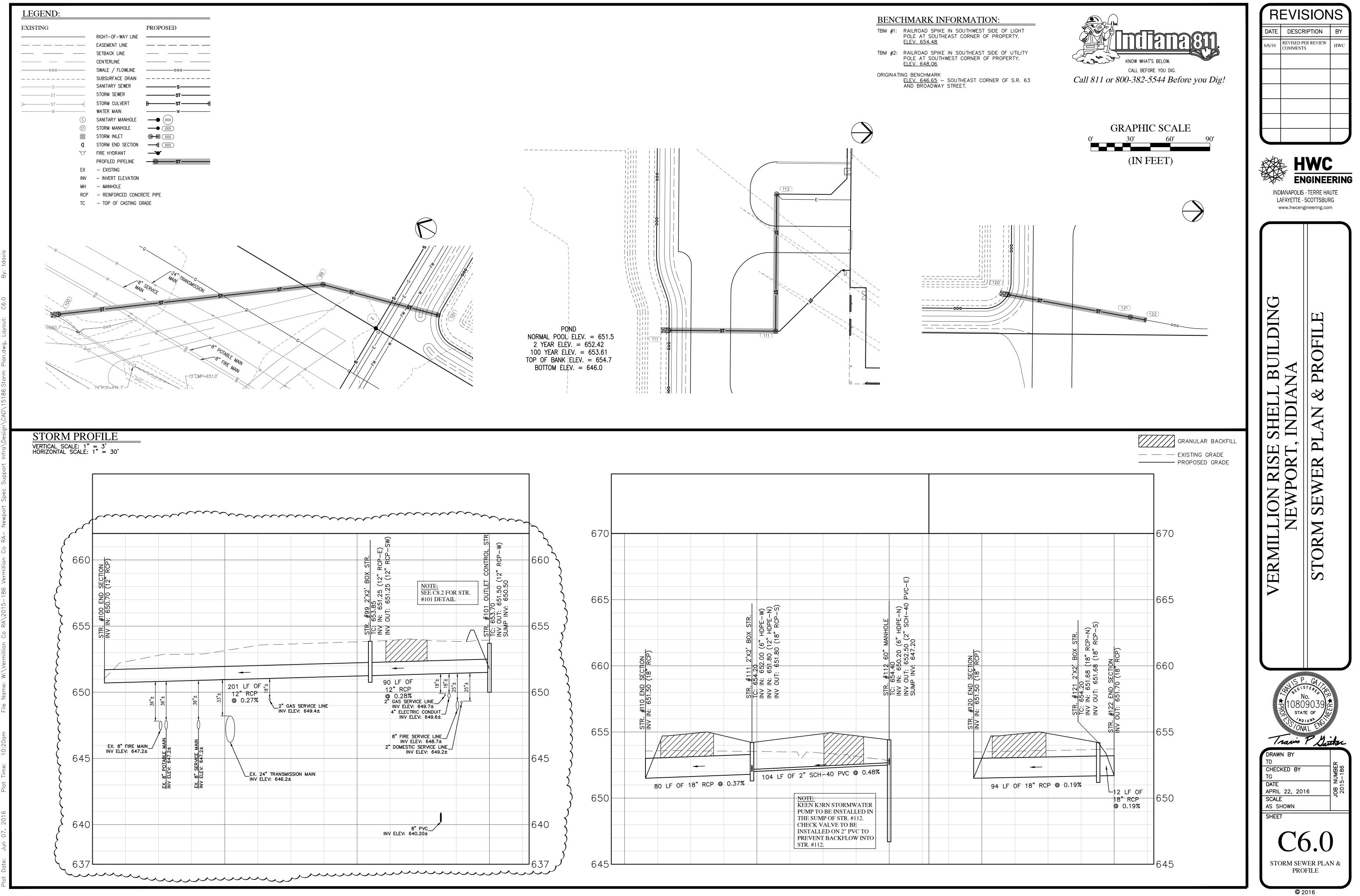


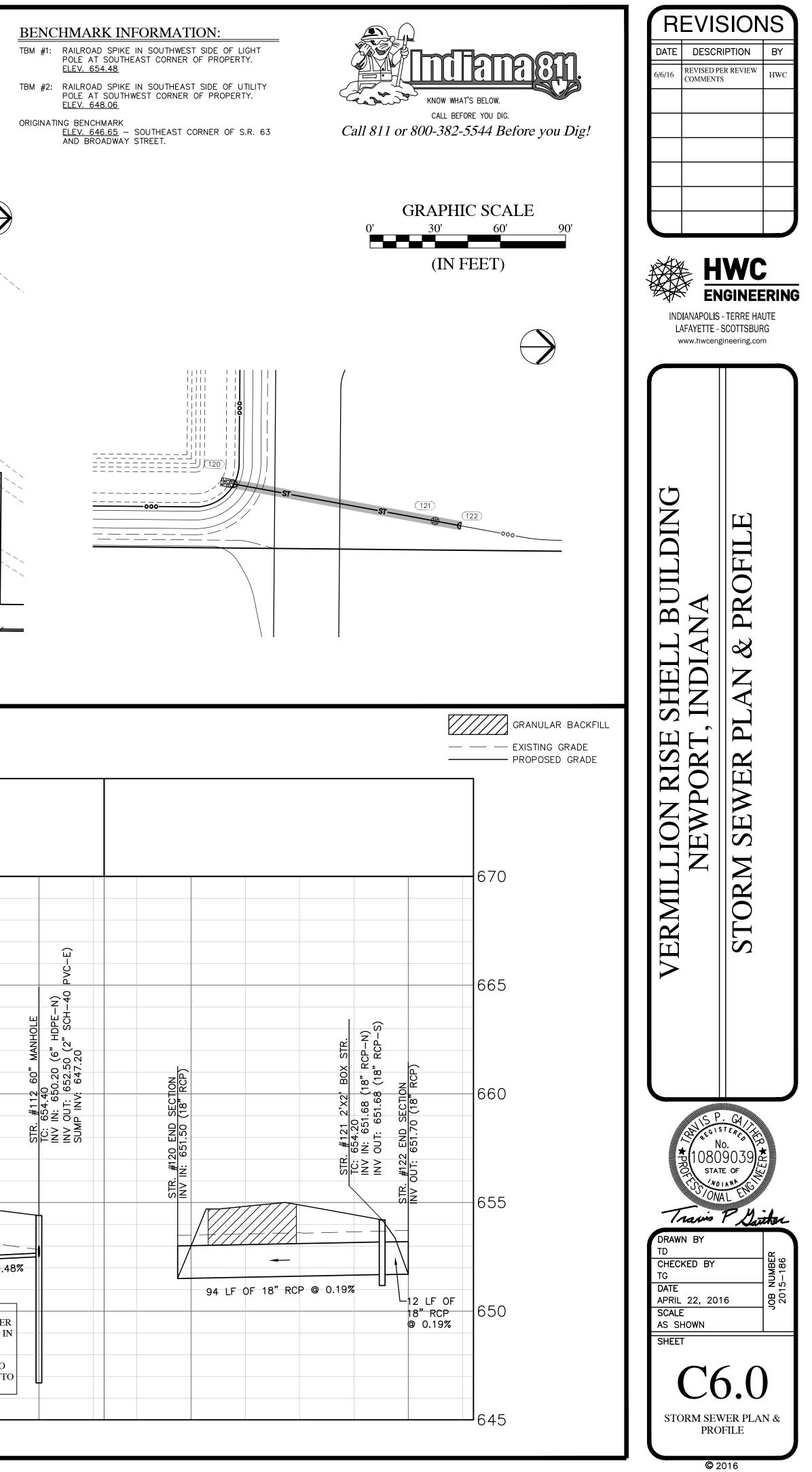


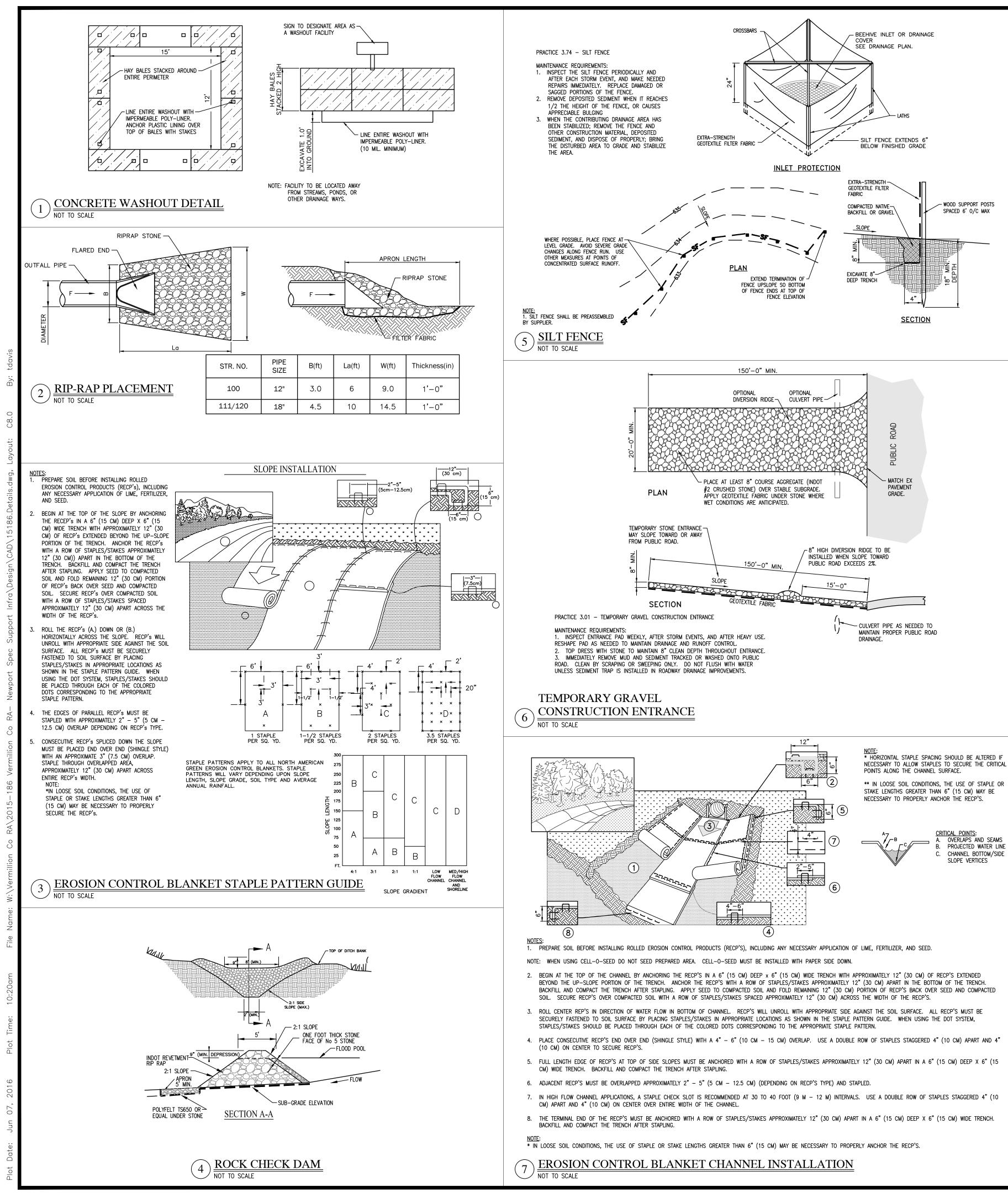


TBM #1: RAILROAD SPIKE POLE AT SOUTH ELEV. 654.48

		REVISIONS
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E IN SOUTHEAST SIDE OF UTILITY IWEST CORNER OF PROPERTY.	KNOW WHAT'S BELOW.	
- SOUTHEAST CORNER OF S.R. 63 STREET.	CALL BEFORE YOU DIG. Call 811 or 800-382-5544 Before you Dig!	
	GRAPHIC SCALE	
	0' 30' 60' 90' (IN FEET)	HWC
		ENGINEERING
		INDIANAPOLIS - TERRE HAUTE LAFAYETTE - SCOTTSBURG - MUNCIE www.hwcengineering.com
		IJ Ш
		& PROFI
		A BR
		SHELI INDIA PLAN
	GRANULAR BACKFILL	
	EXISTING GRADE 	VERMILLION RISE NEWPORT, SANITARY SEWER
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		SCALE AS SHOWN SHEET
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		SANITARY SEWER PLAN &
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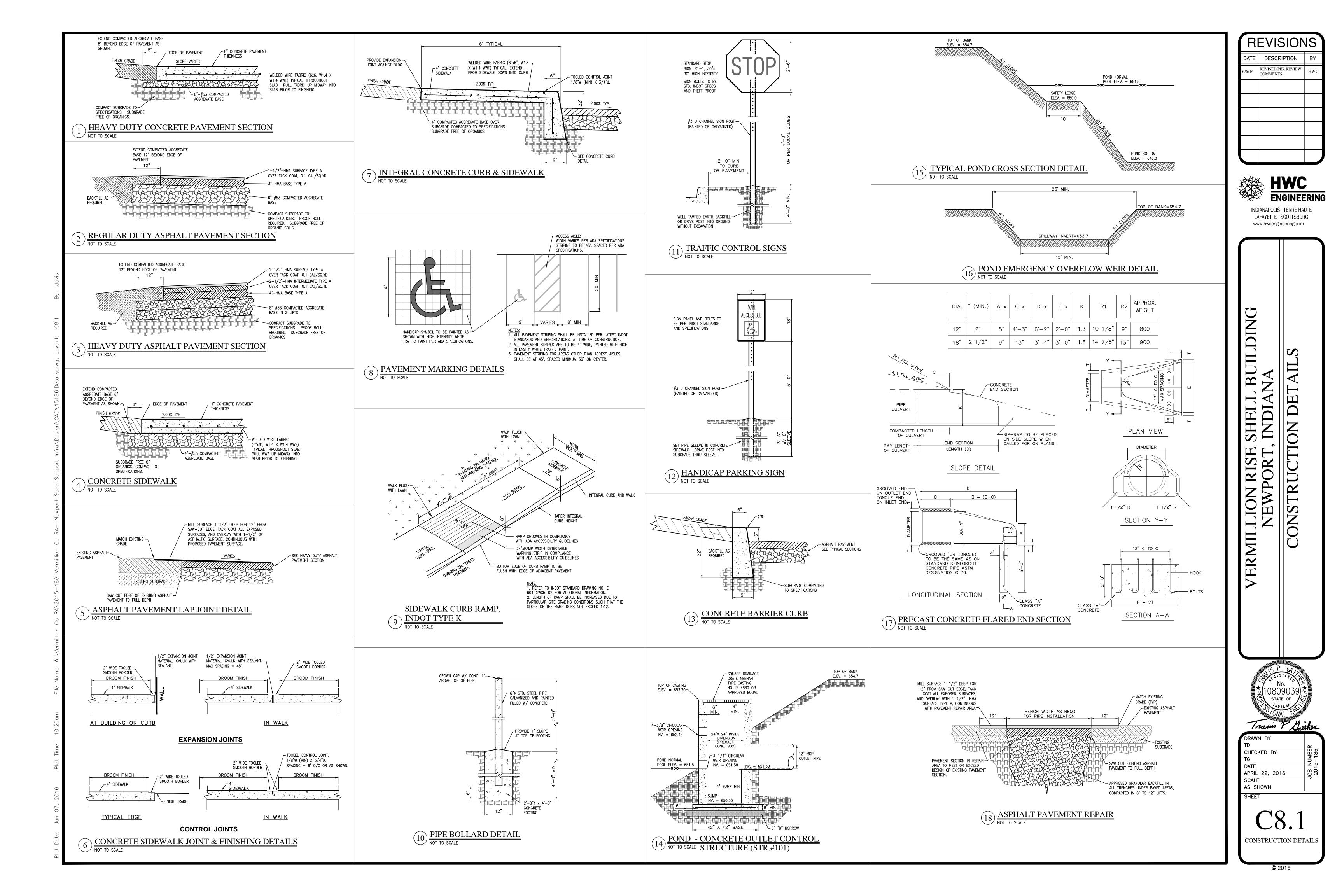


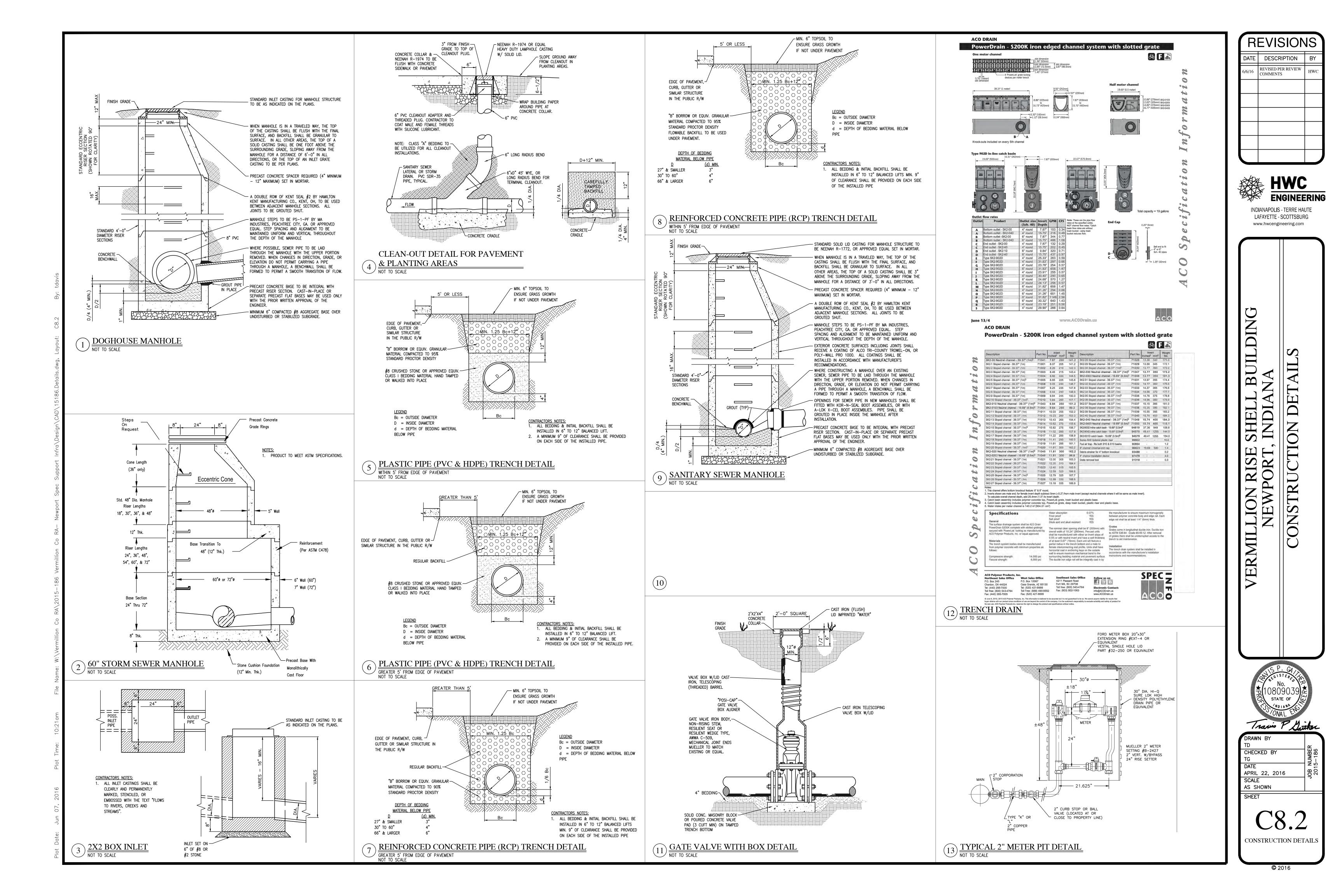


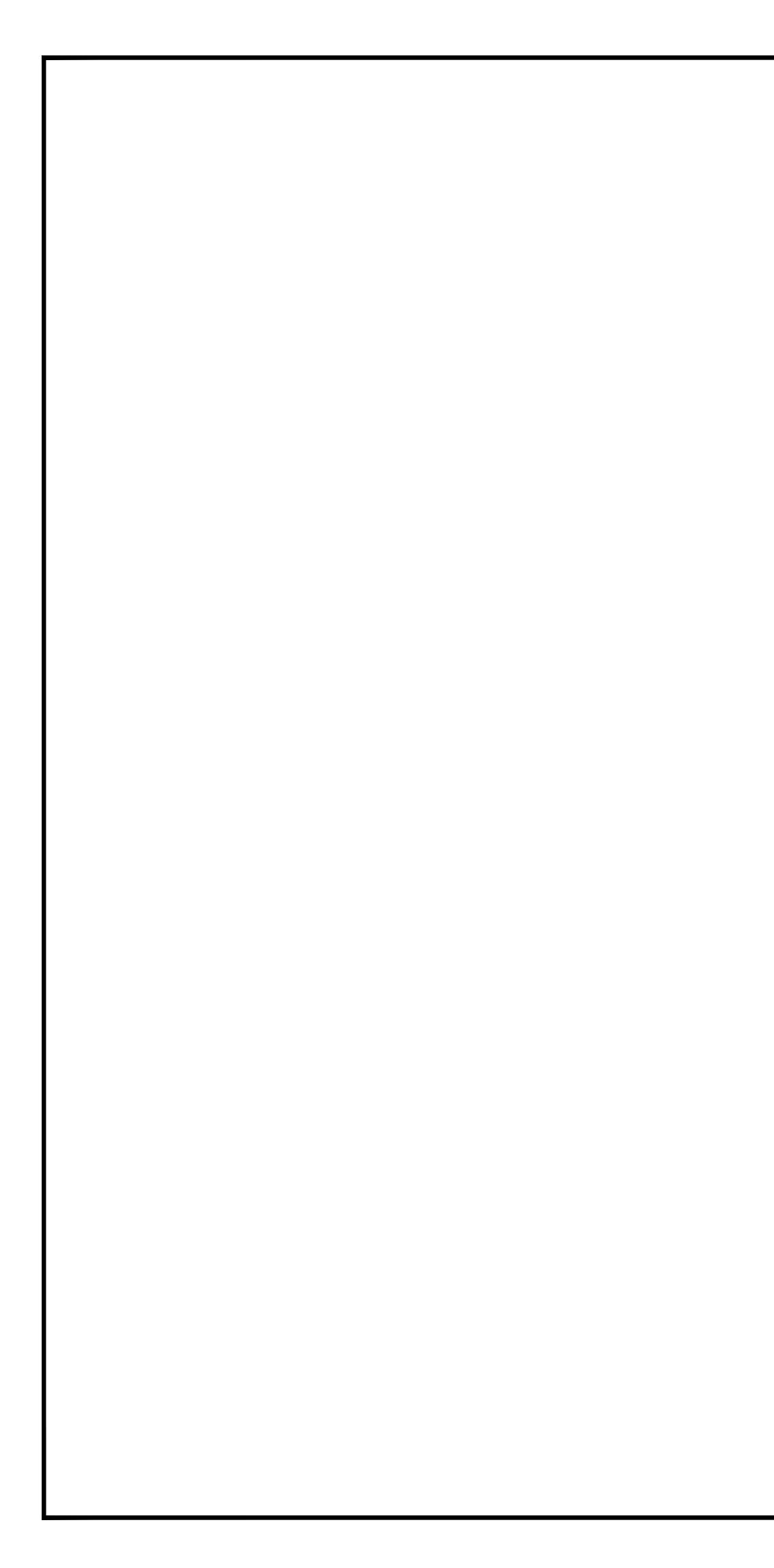


A2	11X17 PLAT	N/A
Α3	PROJECT TYPE	CONSTRUCTION ALONG WITH AS DRIVES, AND T
Α4	VICINITY MAP	SEE SHEET C1.
A5	LEGAL DESCRIPTION	SEE SHEET C1.
A6	SITE IMPROVEMENTS	SEE SHEETS C
Α7	14 DIGIT HYDROLOGIC UNIT CODE	0512010815002
A8	STATE OR FEDERAL WATER QUALITY PERMITS	NONE
A9	POINTS WHERE STORMWATER WILL DISCHARGE SITE	STORMWATER F ROUTED TO A DISCHARGES IN NORTH OF BRC WEST.
A10	LOCATION OF WETLANDS, LAKES, WATER COURSES ADJACENT TO SITE	NONE
A11 A12	RECEIVING WATERS IDENTIFICATION OF POTENTIAL DISCHARGE TO GROUNDWATER	WABASH RIVER NONE
A13	100 YEAR FLOODPLAINS, FLOODWAYS, AND	NONE
A14	FLOOD FRINGES PRE CONSTRUCTION AND POST	100 YR PRE C
	CONSTRUCTION PEAK DISCHARGE	100 YR POST
A15	ADJACENT LAND USES	SEE SHEETS C NORTH: AGRICUL EAST: AGRICUL SOUTH: INDUST WEST: INDUSTR
A16	LOCATIONS AND BOUNDARIES OF DISTURBED AREAS	SEE SHEETS C
A17	IDENTIFICATION OF EXISTING VEGETATIVE	SEE SHEETS C
A18	SOILS MAP	SEE SHEET C1.
A19	LOCATIONS, SIZES, DIMENSIONS OF PROPOSED STORMWATER SYSTEM	SEE SHEETS C
A20	LOCATIONS, SIZES, DIMENSIONS OF PROPOSED OFFSITE CONSTRUCTION ACTIVITIES	SEE SHEETS C
A21	LOCATION OF SOIL STOCKPILE	SEE SHEETS C
A22	EXISTING SITE TOPOGRAPHY	SEE SHEETS C
A23 B1	PROPOSED SITE TOPOGRAPHY POLLUTANT SOURCES ERODED SOIL	SEE SHEETS C S AND SEDIMENT
	EQUIPMENT P	OELS AND OTHE ND MAINTENANC RESENT ON THE WITH SEEDING AI
B2	QUALITY MEASURES RELATED TO DEVELOPED T LAND DISTURBING ACTIVITIES PROJECT DUF ADJOINING PF	O ELIMINATE SE
1	PRE-CONSTRUCTION SCHEDULE CONTRACTOR TO CALL INDIANA UNDERGROUND VERIFY LOCATION OF EXISTING UTILITIES TWO (2 CONSTRUCTION.	
2	CONTRACTOR SHALL INSTALL STONE CONSTRUCT EARTHWORK IN ACCORDANCE WITH THE PLAN L	
3	CONTRACTOR TO INSTALL RULE 5 INFORMATION PORT-O-LET AS SHOWN ON SHEET C1.2.	POSTING, TRASH
4	CONTRACTOR SHALL INSTALL ALL REQUIRED SIL ANY EARTHWORK ACTIVITIES.	T FENCE AS SHO
5 6	CONTRACTOR SHALL INSTALL CONCRETE WASHO PRIOR TO THE START OF EARTHWORK ACTIVITIE CONTRACTOR TO EVALUATE LOCATION OF SOIL SILT FENCE DEFINING LIMITS.	S AS SHOWN ON
7	CONSTRUCTION SCHEDULE BEGIN GRADING ACTIVITIES AFTER EROSION AND AND ITEMS 1-6 OF THE PRE CONSTRUCTION SC BE DONE IN A MANNER TO MINIMIZE EROSION. EROSION AND SEDIMENT CONTROL MEASURES TO	HEDULE ARE CO AS GRADING PRO
8	CONTRACTOR SHALL STRIP TOPSOIL AND GRADE PERMANENT SEED AS INDICATED ON THE PLAN. KEPT MINIMAL DEPENDANT ON WEATHER, ALL BE TEMPORARILY SEEDED AND MULCHED PER IE	THE SITE PER DURATION OF POTENTIALLY IDL
9	PERMANENT AND FINAL VEGETATION SHALL, IN INSTALLED AS SOON AS PRACTICAL PER SHEET	ADDITION TO ST
10	CONTRACTOR SHALL BEGIN BUILDING CONSTRUC	TION AFTER MAS
11	CONTRACTOR SHALL INSTALL ALL UTILITIES AND	RE-SEED ALL
12	CONTRACTOR SHALL INSTALL ALL PAVEMENT AN	ND SIDEWALKS A
13	COMPLETE FINAL GRADING AND INSTALL SEEDIN REMAINING EXPOSED AREAS AS A RESULT OF (
14	CONTRACTOR SHALL MAINTAIN EROSION AND SE CONSTRUCTION AND UNTIL A 70% VEGETATIVE S INSPECT ON A WEEKLY BASIS OR AFTER A 1/2 C8.0 FOR DETAILS AND SPECIFICATIONS.	STAND IS ATTAIN
15	ALL EROSION AND SEDIMENT CONTROL SHALL C #5".	OMPLY WITH IND









SANITARY SEWER SPECIFICATIONS

1. Standard specifications 327 IAC 3 shall apply for all work and materials. Inspection service shall be provided by Newport Chemical Depot Reuse Authority and Professional Services Industries. The following specifications and construction plan details denote requirements for materials and installation methods per 327 IAC 3. Newport Chemical Depot Reuse Authority must be notified 48 hours in advance of any testing. Newport Chemical Depot Reuse Authority representative must be present for lateral installation.

2. Sanitary sewer pipe shall be PVC in accordance with ASTM D-3034 (S.D.R. 35) and ASTM 2321. PVC pipe shall have a grooved bell and gasket. The pipe shall be made of PVC plastic having a cell classification of 124548.

3. PVC sewer fittings shall conform to the requirements of ASTM D-3034-89 specification. Fittings in sizes through 8" shall be molded in one piece with elastomeric joints and minimum socket depths as specified in sections 6.2 and 7.3.2. Fittings 10" and larger shall be molded or fabricated in accordance with section 7.11 with manufacturers standard pipe bells and gaskets. Wall thickness of fittings shall be SDR 26 as defined in section 7.4.1 of specifications. Gaskets for elastomeric joints shall be molded with a minimum cross—sectional area of 0.20 square inches and conform to ASTM F-477 specification.

4. All sanitary manholes shall be "precast concrete" manholes in accordance with ASTM C-478 and Section 720. O-rings shall conform to C-443. Kent Seal or equivalent shall also be applied to all joints and between riser rings and castings. Manhole step spacing shall be no more than 16-inches. Manholes shall be air tested for leakage in accordance with ASTM C1244-93, Standard Test Method for Concrete Sewer Manholes by the Negative Air Pressure (Vacuum) Test. A Newport Chemical Depot Reuse Authority representative must be present for all negative air pressure (vacuum) tests.

A Installation and operation of vacuum equipment and indicating devices must be in accordance with manufacturer's recommendations and performance specifications which have been provided by the manufacturer and accepted by the Engineer. The vacuum equipment must be capable of testing the entire manhole, including the casting and riser rings.

B. With the vacuum tester set in place: 1. Connect the vacuum pump to the outlet port with the valve open.

C. Accepted standards for leakage will be established from the elapsed time for a negative pressure change from ten (10) inches to nine (9) inches of mercury. The maximum allowable leakage rate for a four (4) foot diameter manhole must be in accordance with the following:

2. Draw a vacuum of ten (10) inches of Hg. and close the valve.

Minimum Elapsed Time for a Manhole Depth Pressure Change of 1 Inch Hg

10 feet or less 60 seconds >10 feet but <15 feet 75 seconds >15 feet but <25 feet 90 seconds

For manholes five (5) feet in diameter, add an additional fifteen (15) seconds and for manholes six (6) feet in diameter, add an additional thirty (30) seconds to the time requirements for four (4) foot diameter manholes. For all manholes deeper than twenty-five (25) feet. Engineer will determine the applicable minimum elapsed time.

D. If the manhole fails the test, necessary repairs must be made and the vacuum test and repairs must be repeated until the manhole passes the test.

E. If manhole joint sealants are pulled out during the vacuum test, the manhole must be disassembled and the joint sealants replaced.

F. Manholes will be subject to visual inspection with all visual leaks being repaired

5. Butyl rubber coating shall be applied around each manhole joint from 6-inches above to 6-inches below each joint. The appropriate primer shall be applied prior to applying the rubber coating. Inside joints to be filled with precoat plug material.

6. The manhole chimney's including all riser rings shall be sealed using Infi-Shield "Uniband" or approved equal. Prior to placement, the top 4-inches of the manhole cone and casting frame shall be cleaned and primed. The Uniband shall extend from 3—inches below the top of the cone section to 2-inches over the flange of the manhole casting frame.

7. The casting elevations are set by plan. However, the castings are to be adjusted in the field by the Engineer's representative, should a discrepancy occur between plan grade and existing grade. New manhole ring and cover shall be installed to establish grade. Maximum height of adjusting rings shall be 12-inches.

8. Backfill around all structures and all cuts under paved areas with granular material. Trenches opening within 5-feet of paved roadways shall be backfilled with granular material in accordance with Section 211. Backfill under sidewalks shall be aranular, unless the walks are constructed a minimum of 6 months after backfill has been in place.

9. The Contractor shall be responsible for verifying that all state highways, city, and county permits have been obtained by the developer prior to start of construction.

10. The Contractor shall be required to furnish the developer's Engineer with a set of prints, marked in red pencil, showing actual sewer location and invert, to include lateral location, depth and length. Such "as built" prints must be received by the Engineer before the final contract payment can be authorized. The sanitary sewer laterals and stubs termination shall be indicated on the surface with a metal fence post set immediately above the said termination point.

11. All sanitary sewer lines upon completion will be required to pass a low pressure air test. Said test shall be conducted according to ASTM 1417-92, and shall be witnessed by an Engineer and a representative of the District. The testing shall be in accordance with Table 1. Add 0.5 psig for each foot of water above the sewer line being tested.

12. Deflection tests shall be performed on all flexible* pipe after the final backfill has been in place at least 30 days. No pipe shall exceed a vertical deflection of 5% deflection test results. (*The following are considered non-flexible pipes: concrete pipe, ductile iron pipe, and cast iron pipe). The deflection test shall be performed with a nine-point mandrel. Proving rings shall be available. Deflection test shall also be performed using a mandrel that is 95% of the diameter of the inside of the pipe, and that the mandrel be pulled by hand. Mandrel Test shall be done a minimum of 30 days after sewer installation.

13. All mandrel testing shall be observed by a professional engineer representative for certification and a representative of the District. Mandrel Test shall be done a minimum o 30 days after sewer installation.

14. The ends of laterals are to be plugged tight with a braced plastic disc or cap capable of withstanding a low pressure air test without leakage. End of lateral to be marked by 2x4 stake or PVC riser.

15. Bedding for flexible pipe shall be No. 8 crushed stone from 6-inches below the pipe to 12-inches above the pipe. Bedding for rigid pipe shall be No. 8 crushed stone from 6-inches below the pipe to the spring line of the pipe and from this point to 12—inches above shall be fill sand or equivalent. Manholes shall be placed on no less than 6-inches of No. 8 crushed stone bedding.

16. Water and sewer line crossings and separations shall be in accordance with 327IAC 3-6-9. Sec. 9. (a) Sanitary sewers shall not be located within ten (10) feet of

any existing or proposed water mains, when measured horizontally from the outside edge of the sanitary sewer to the outside edge of any existing and proposed water mains, unless the sanitary sewers and water main comply with the following: (1) The sanitary sewer and water main must cross with the sanitary

sewer and water main separated by a minimum of eighteen (18) inches measured vertically from the outside edge of the sanitary sewer to the outside edge of the water main. (2) The crossing specified in subdivision (1) must be at a minimum

angle of forty—five (45) degrees measured from the center lines of the (3) The conditions specified in subdivisions (1) and (2) must be maintained for a minimum distance of ten (10) feet from either side of the sanitary sewer as measured from the outside edge of the sanitary

(1) The sanitary sewers meet all water main pressure testing (2) The sanitary sewer shall be constructed of materials in

(A) 327 IAC 8-3.2-8.

(PVC) Pressure-Rated Pipe, and having a SDR (standard dimension ratio) of 21.

(3)The sanitary sewers and water mains are no in contact. (4)Any sanitary sewer joints are compression type joints that are placed equidistantly from the water main. (5) The sanitary sewer and water main are laid on separate trench shelves.

(c) No sanitary sewer manhole shall be within eight (8) feet of a water main as measured from the outside edge of the sanitary sewer manhole to the outside edge of the water main.

sanitary sewer and water main.

sewer to the outside edge of the water main. (b) A shorter separation distance than that specified in subsection (a) is allowed if the following is conducted within the separation distances specified in subsection (a):

> requirements as described in 327 IAC 8-3.2-17(a). conformance with one (1) of the following:

(B) Section 8(a)(1) of this rule. (C) ASTM D2241-96b, Standard Specification for Poly Vinyl Chloride

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SPECIFICATIONS

DATE

SCALE

SHEET

AS SHOWN

APRIL 22, 2016

VERMILLION RISE MEGA PARK C.H. GARMONG & SONS, INC. VERMILLION COUNTY, IN

CONSTRUCTION DOCUMENTS

04-15-16

ARCHITECT

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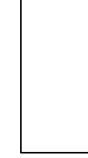


INDEX OF DRAWINGS

ARCHITECTURAL

G101 COVER SHEET

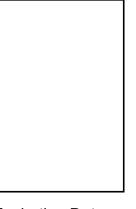
- S100 STRUCTURAL GENERAL NOTES
- S101 FOUNDATION PLAN
- S102 FOUNDATION DETAILS S201 FRAMING PLAN
- S202 ENLARGED PLANS AND ELEVATIONS
- S301 FRAMING DETAILS
- A101 FLOOR PLAN
- A201 BUILDING ELEVATIONS
- A202 BUILDING ELEVATIONS / SECTIONS
- A301 ROOF PLAN
- A302 ROOF DETAILS A401 DOOR / WINDOW SCHEDULE AND DETAILS
- A501 WALL SECTIONS
- A502 MISC. DETAILS



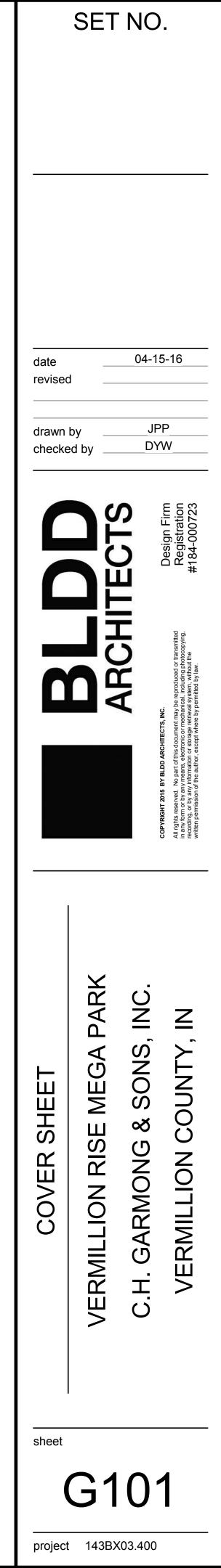
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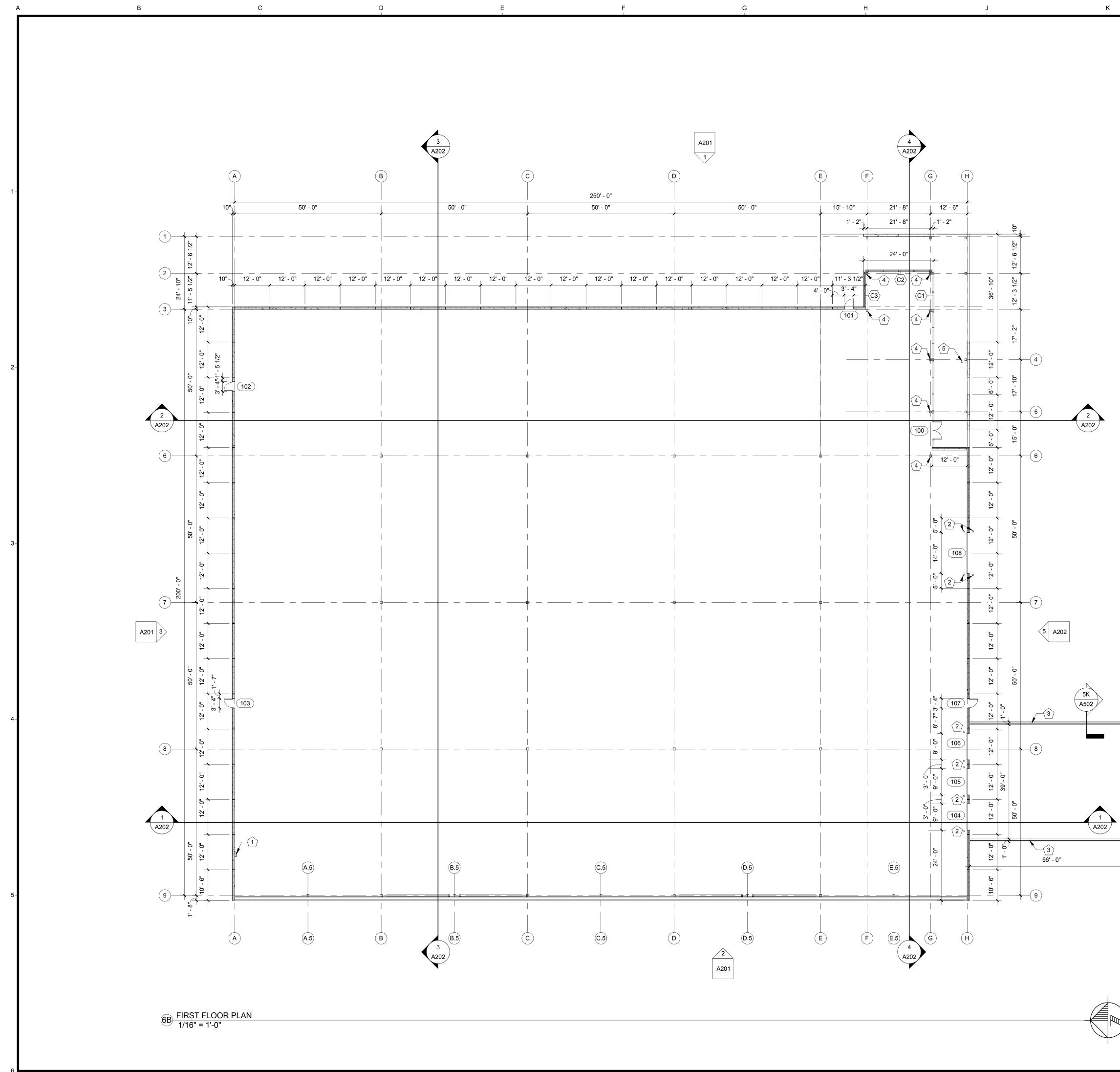


2010 INDIANA ENERGY CONSERVATION CODE 2010 ADA STANDARDS FOR ACCESIBLE DESIG



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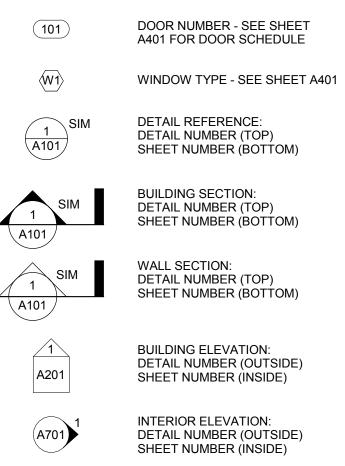
- 2. TOP OF FIRST FLOOR SLAB = 100'-0" UNLESS OTHERWISE NOTED.
- 3. GROUT ALL HOLLOW METAL FRAMES SOLID.
- 4. ABBREVIATIONS: AFF ABOVE FINISHED FLOOR PJ PANEL JOINT

PAINT SCHEDULE

GENERAL NOTES

- PT-A AS SELECTED FROM FULL RANGE OF COLOR OPTIONS.
- PT-B AS SELECTED FROM FULL RANGE OF COLOR OPTIONS.
- PT-C AS SELECTED FROM FULL RANGE OF COLOR OPTIONS. PT-D AS SELECTED FROM FULL RANGE OF COLOR OPTIONS.

LEGEND



SPOT ELEVATION

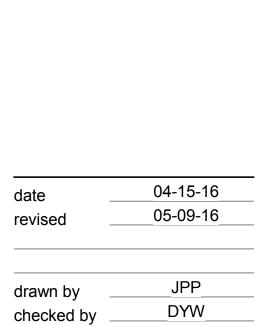
KEYNOTE

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FLOOR PLAN KEYED NOTES

OHSA APPROVED LADDER WITH CAGE 6" DIA. PLASTIC COVERED CONCRETE FILLED METAL BOLLARD STEEL GUARD RAIL STEEL COLUMN - PAINT PT-D ROOF DRAIN TO BOOT CONNECTION. COORDINATE FINAL LOCATION OF CONNECTION TO STORM PIPING.





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COUNTY

VERMILLION

SONS, **VERMILLION RISE MEGA** త GARMONG C.H.

PARK

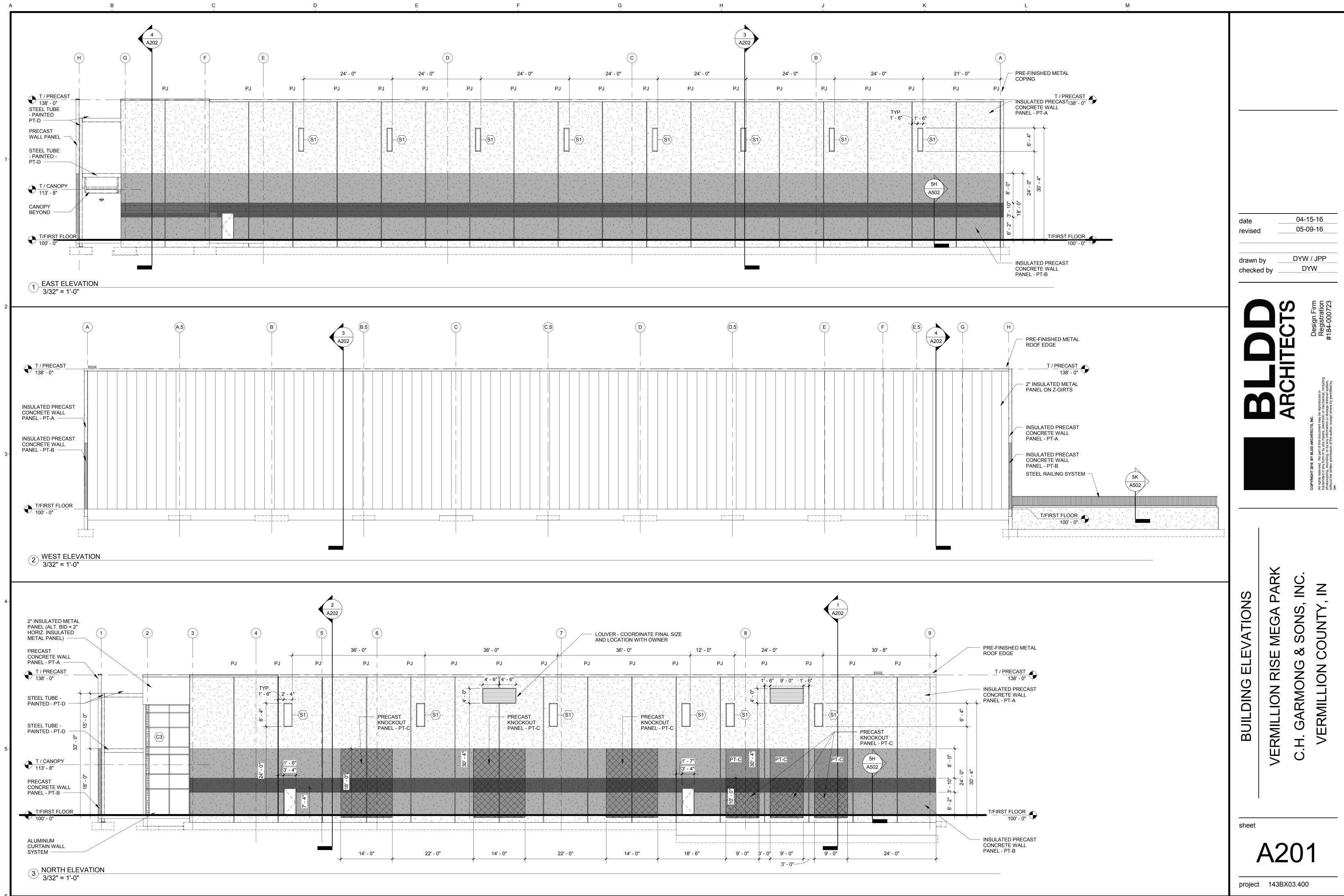
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FLOOR PLAN

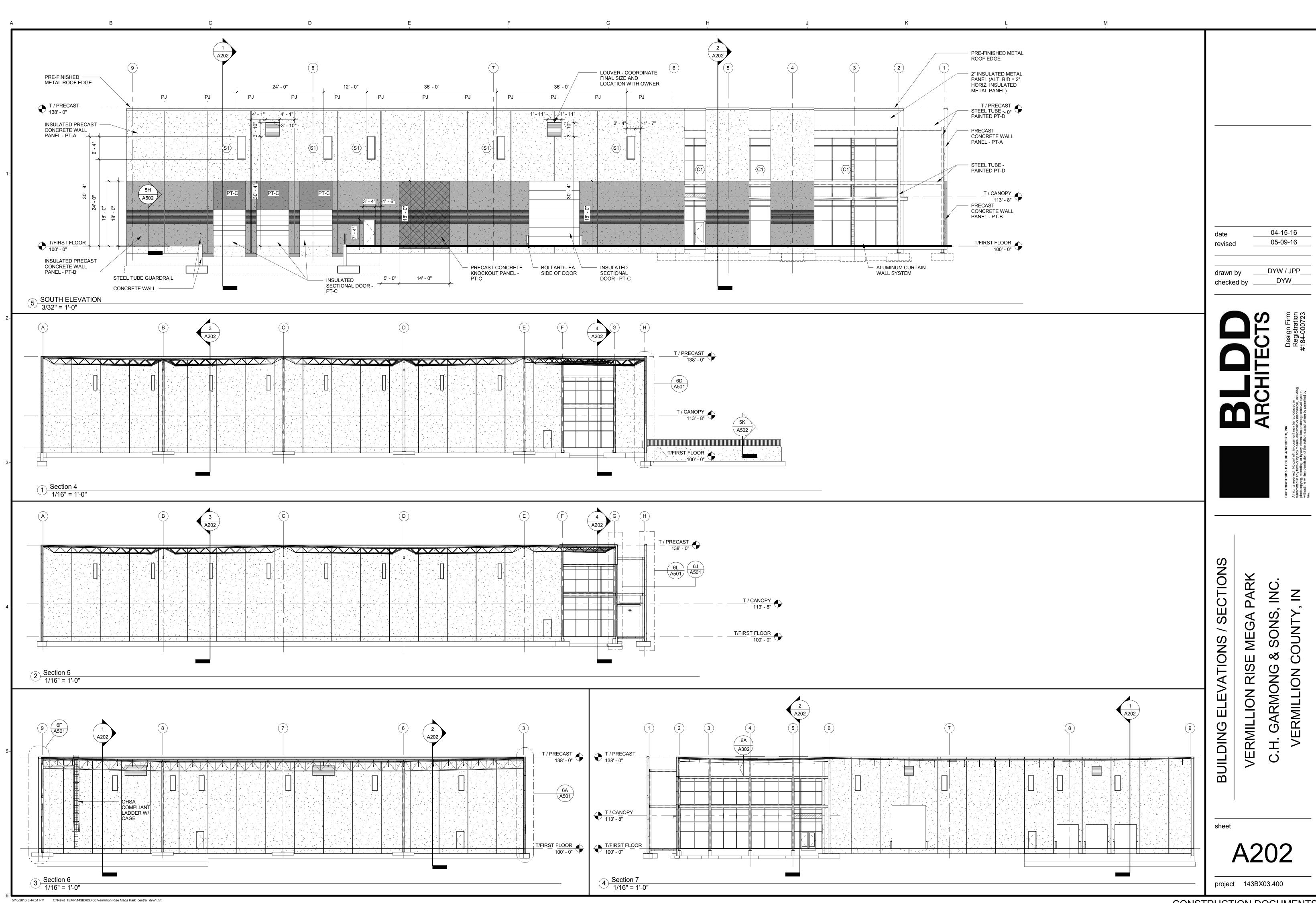


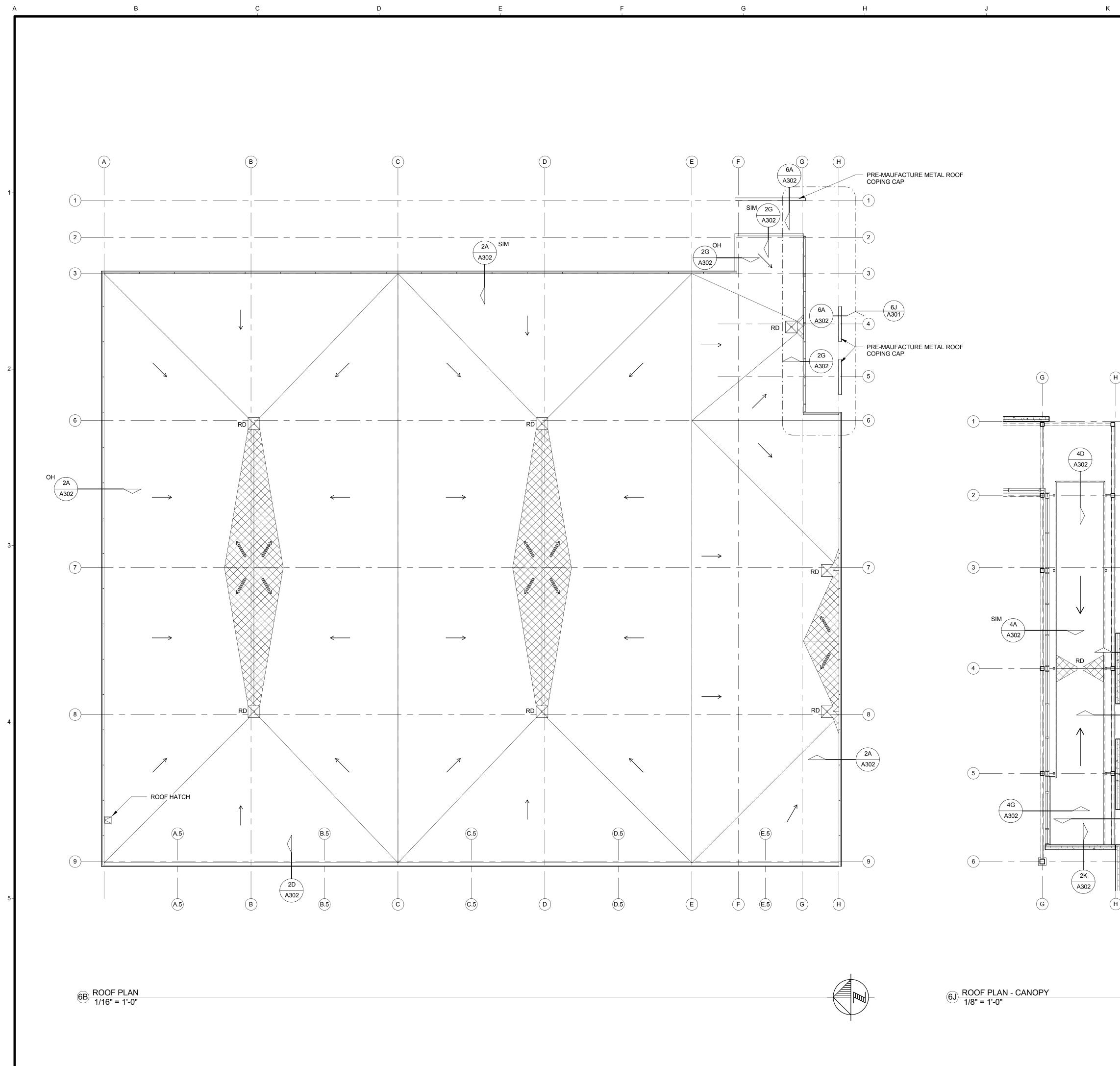
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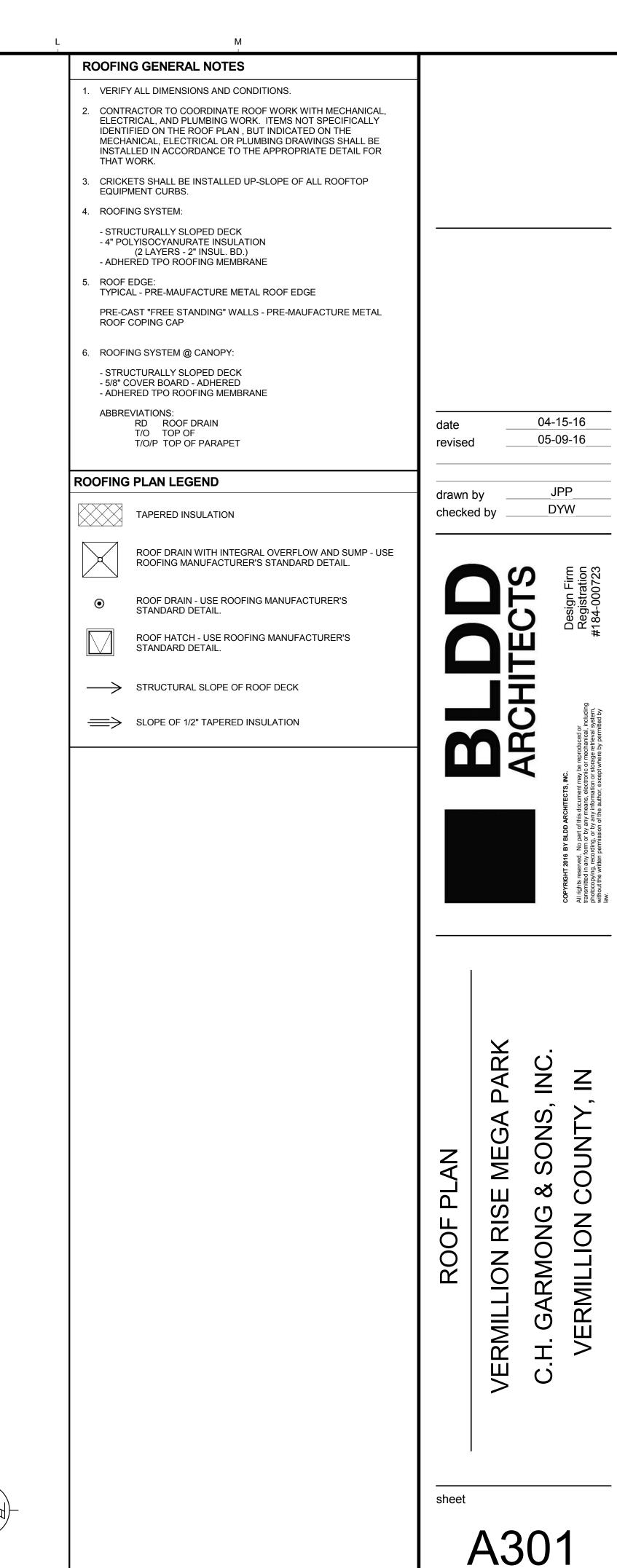
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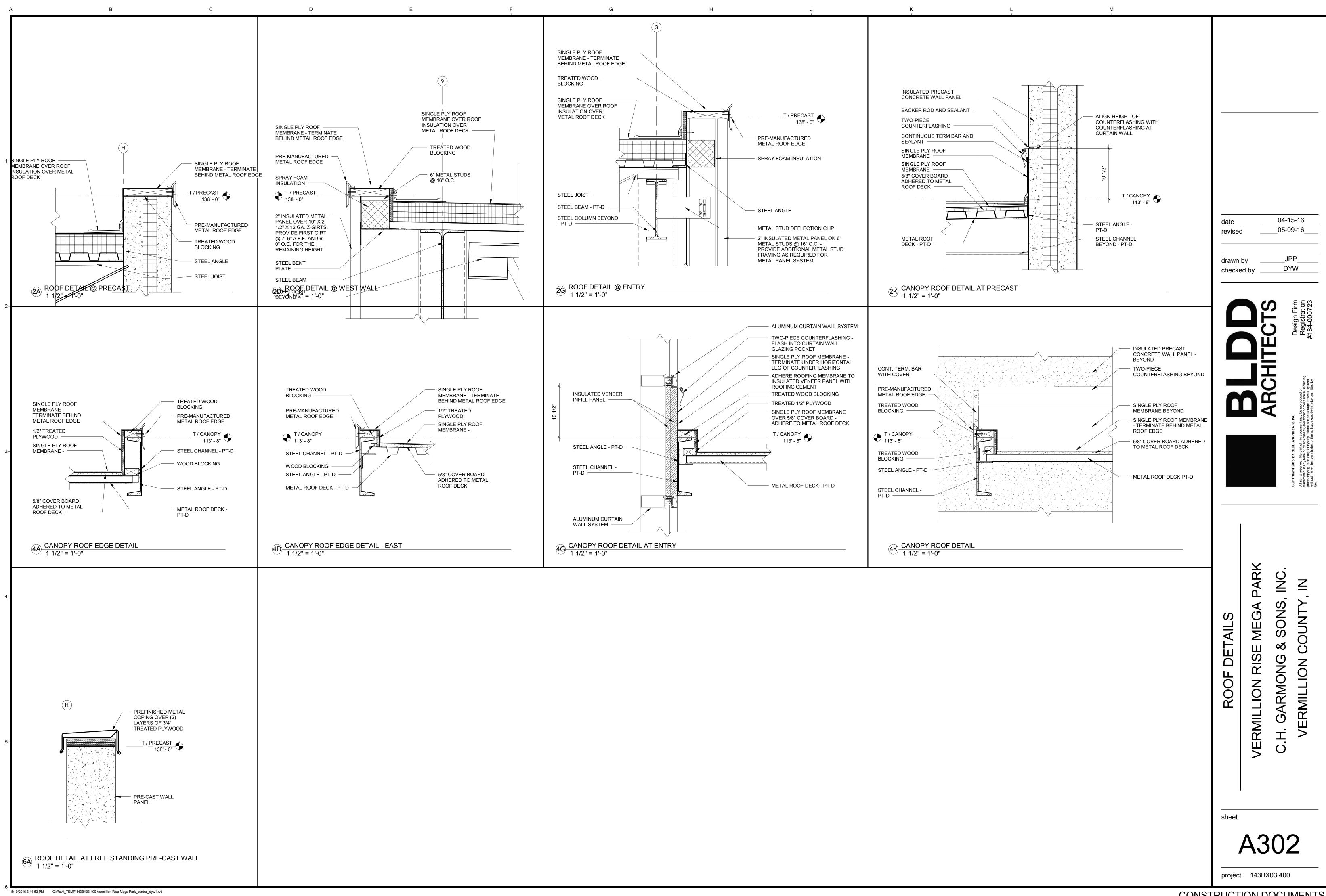
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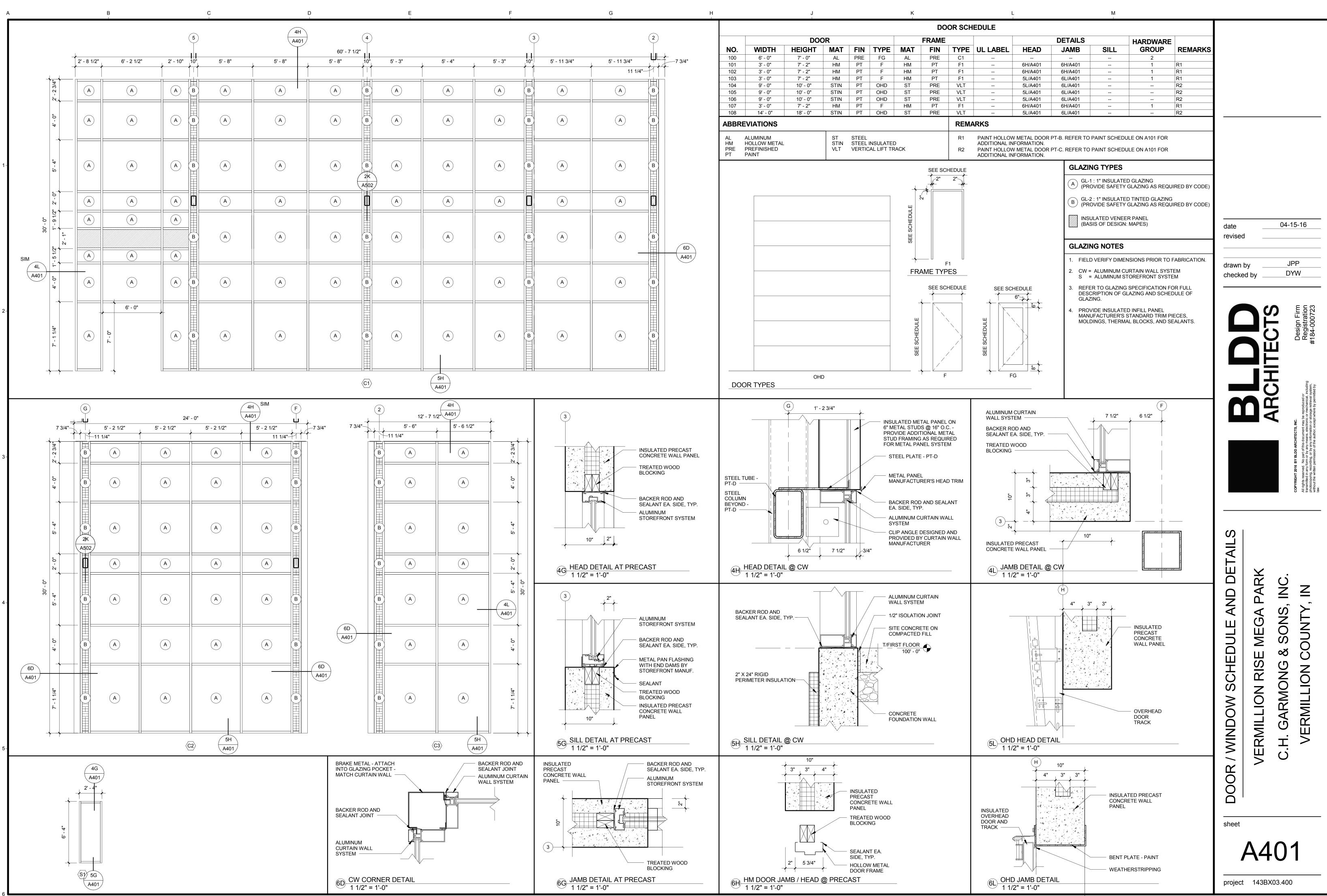
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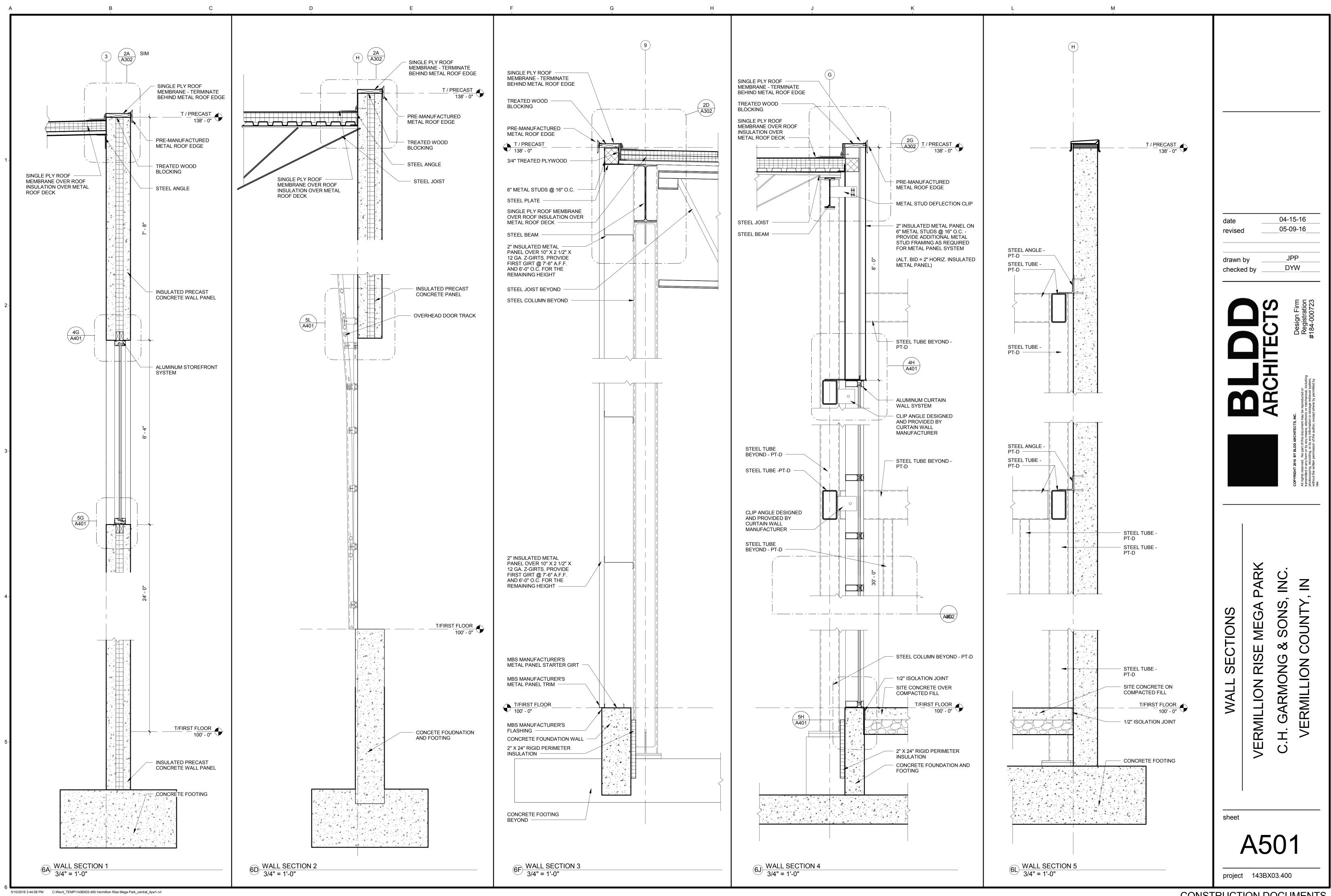


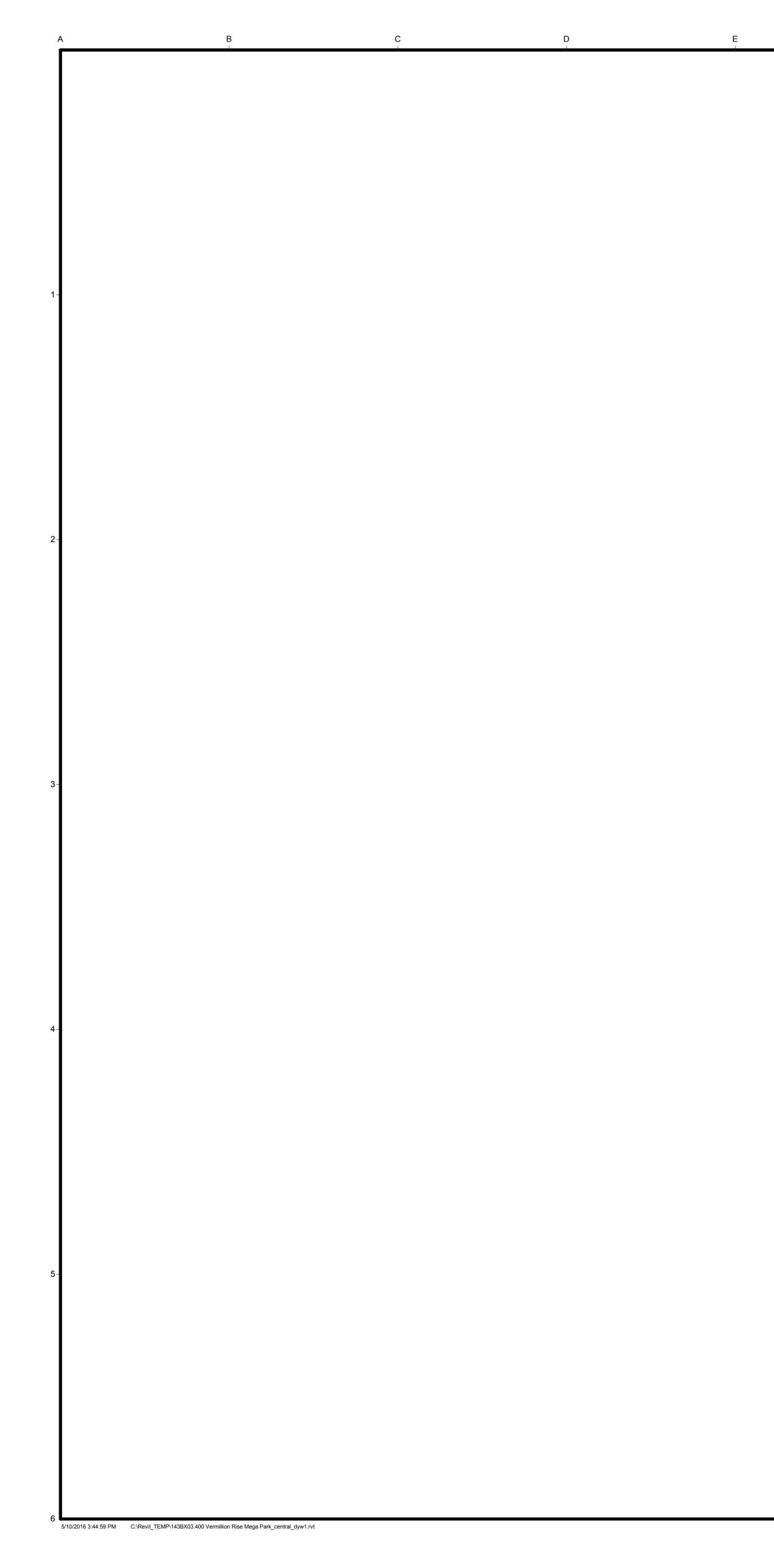
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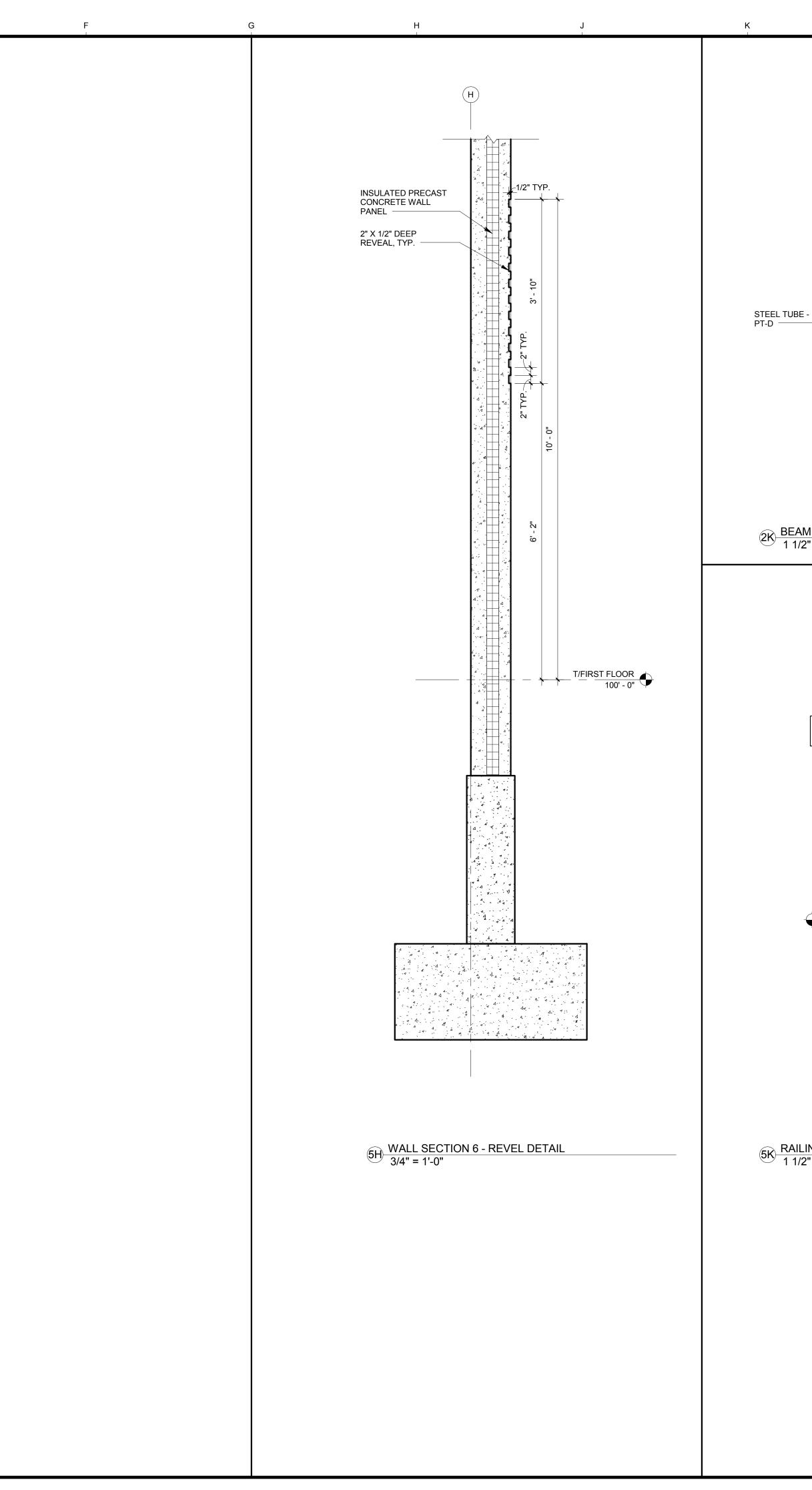


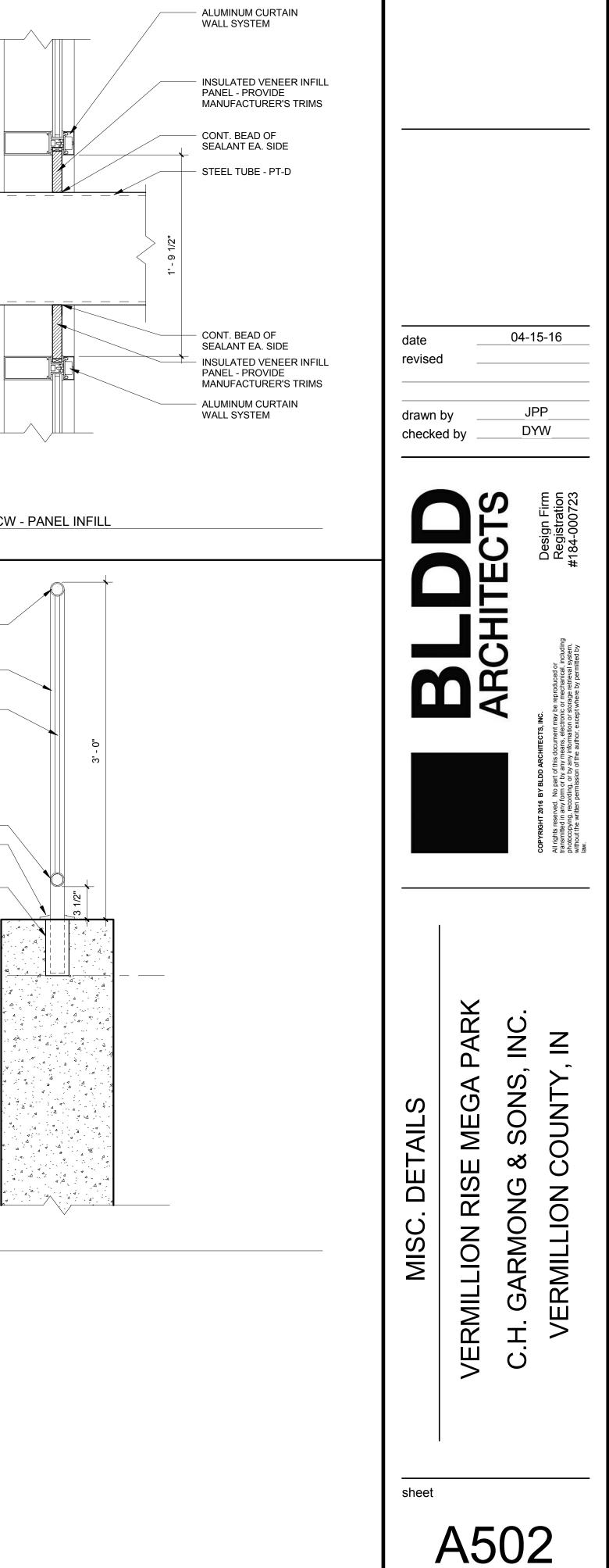


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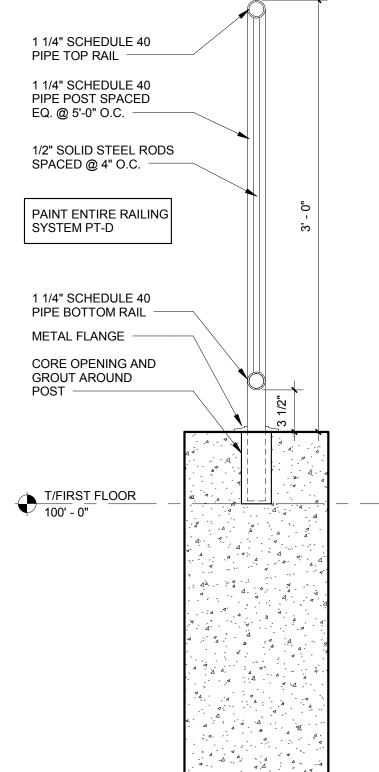




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BEAM PENETRATION AT CW - PANEL INFILL1 1/2" = 1'-0"

L



5K RAILING DETAIL 1 1/2" = 1'-0"

project 143BX03.400

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CONCRETE OR SELECT FLL, COMPARED TO SPECICITION OF STANDARD PROCTOR ASTM DEBIG MAXIMUM DENSITY A CYNTAR PROCESSUS LLTT WHERE BACKTLI, LLS REQUERED ON BOTH SIDES OF A FOUNDATION WALL, PLACE BACKFLL SMULTANEOUSLY ON BOTH SIDES OF FOUNDATION WHERE BACKTLI, LLS REQUERED ON BOTH SIDES OF A FOUNDATION WALL, PLACE BACKFLL SMULTANEOUSLY ON BOTH SIDES OF FOUNDATION WHERE BACKTLI, LLS REQUERED ON BOTH SIDES OF A FOUNDATION WALL, PLACE BACKFLL SMULTANEOUSLY ON BOTH SIDES OF FOUNDATION WHERE BACKTLIS IS REQUERED ON BOTH SIDES OF A FOUNDATION WALL, PLACE BACKFLL SMULTANEOUSLY ON BOTH SIDES OF FOUNDATION WHERE BACKTLIS ON ATTER RUNDE GAL HERE SIDE ON THE SUB GRADE SHULL BE REPORTED ON THE FORM THE REMOVED ON MATER PROST OR ICE. 1. THE CONTRACTOR BHALL PROVIDE ALL HERESSARY MEASURES TO PREVENT ANY FOOT ON CIEF FOUN FRENTETING ANY FOOTMO OR SLAB SUBGADE BEFORE AND ATTER RUNDE GAL HERESSARY MEASURES TO PREVENT ANY FOOT ON CIEF FOUN FRENTETING ANY FOOTMO OR SLAB SUBGADE BEFORE AND ATTER RUNDE GAL HERESSARY MEASURES TO PREVENT ANY FOOT ON CIEF FOUN FRENTETING ANY FOOTMO OR SLAB SUBGADE BEFORE AND ATTER RUNDE GAL HERE OF CONTRINUES SUBGADES ARE FULLY RUNDERTS, HANGERS, SLEEVES, CHARSE, OFENNOS, DUCHTORR, CONDUIT, PADS, ANCHOR ROS AND ALL OTHER THEST TATARE REQUERED Y MECHANICAL CONFORMENT. 1. THE CONCRETE FOR EACH BOATER FOOTING SHALL BE FLACED IN ONE (I) CONTINUOUS PLACEMENT. 1. THE CONCRETE FOR EACH BOATER FOOTING SHALL BE FLACED AND ALL ONE FORM TO ASTIN ADSTRUCTURE. 1. STRUCTURES AND BEAUXED AND DUCKTOR TO ASTIN ADVINCE. 1. THE CONCRETOR WOR FLACES SHAPES SHALL CONFORM TO ASTIN ADVINCE. 1. STRUCTURES THE UNDER LANCE SHAPES SHALL CONFORM TO ASTIN ADVINCE. 1. STRUCTURES AND EVEN THE MORE AND RESELVE THE THIS REPORT AND ADD ADDIES THE UTILITY. 2. MACHOR ROD SHALL BE ASTIN FISS, GRADE SK, SA'T DUMETER MITH AS "MINIMUM EMBEDNENT, ULLESS NOTED OTHERWISE. 1. MACHOR ROD SHALL BE ASTIN FISS, GRADE SK, SA'T DUMETER MITH AS "MINIMUM EMBEDNENT, ULLESS AND ED OTHERWISE. 2. MACHOR ROD SHALL BE ASTIN FISS, GRADE SK, SA'T	4	5.						
 WHICH HAS NOT BEEN AREQUATELY COMPACTED. WHICH HAS NOT BEEN AREQUATELY COMPACTED. WHICH HAS NOT BEEN AREQUILTELY COMPACTED. WHICH HAS NOT BEEN AREQUILTELY COMPACTED. NO FORMUSS SHALL BE FLACED ONT, OR AGAINST SUBGRADE CONTAINING FREE WATER, FROST OR ICE SHOULD WATER, FROST OR ICE END MINISS SHALL BE HARED AFTER SUB GRADE APPROVAL. THE SUB-GRADE SHALL BE REINSPECTOR AFTER THE REMOVAL OF WATERFROST OR ICE INDIVIDUAL STELL RECOVERED AFTER THE REMOVAL OF WATERFROST OR ICE. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY MEASURES TO PREVENT ANY FROST OR ICE FROM PENETRATING ANY EDOSTING OR SILA BE SUBJECT OR NOT THE UNIT AND PROST OR ICE FROM PENETRATING ANY EDOSTING THE PERMANENT BUILDING STRUCTURE. THE CONTRACTOR SHALL BE RESINGUE FOR COORDINATING THE LOCATION AND PLACEMENT OF INSERTS, INVERS, SLEEVES, CHARES, OFENERO, DUTY MARK, DUTY THE RESINGUE AND ENDER THE NET ANY END OF INSERTS, INVERS, SLEEVES, CHARES, OFENERO, DUTY ENDER, INVERS, ONDER DUTY ENDER, STRUCTURAL STEEL FLATES, INVERS, ORDER SI, ANALL CONFORM TO ASTIN ASSI, ONLESS NOTED OTHERWISE. ANALONG ROOS SHALL DE ELANGE BHARES SHALL CONFORM TO ASTIN ASSI, UNLESS NOTED OTHERWISE. ANALESS, CHARES, AND BUEST SHALESS, AND DUTY OT ASTIN ASSI, UNLESS NOTED OTHERWISE. ALLESTRUCTURAL STEEL SHALE BE STRUCTURAL DOFFOR TO ASTIN ASSI, UNLESS NOTED OTHERWISE. ALLESTRUCTURAL STEEL SHALE BE STRUCTURAL AND FREY OF THIST. COLUMN BEARING BROS SHALL BE TRUE AND SQUARE. ALL COLUMNS SHALL DE OTHER TRUE. ALLESTRUCTURAL		6.	CONCRETE	OR SELECT FIL	L, COMPACTED TO 98 PERC	ENT OF STANDARD PROCTOR (A	STM D698) MAXIMUM DENSITY AT OPTIMUM MOIST	JRE
 WALLS AT UNFORM LEVELS OF FILL NO FOOTNOS SHALL BE LACED ON: O A GAINST SUBGRADE CONTAINING FREE WATER, FROST OR ICE, SHOULD WATER, FROST OR ICE, ENTER AN EXAMINES ABLAGE SUB-GRADE SAFUL ES REINSPECTED ATTER THE REMOVAL OF WATERFROST OR CE. THE CONTRACTOR SHALL PROVED ALL NECESSARY MEASURES TO PREVENT ANY FROST OR ICE FROM PREVENTING ANY POTING OR SLAB SUBGRADE EFORE AND THE PLACINO CONCRETE UNIT. BUILDIS SUBGRADE REFULLY PROTECTED BY THE PERMINENT BUILDING STRUCTURE. THE CONTRACTOR SHALL BE RESPONSELE FOR COORDINATION THE LOCATION AND PLACEMENT. THE CONTRACTOR SHALL BE RESPONSELE FOR COORDINATION THE LOCATION AND PLACEMENT. THE CONTRACTOR SHALL BE RESPONSELE FOR COORDINATION THE LOCATION AND PLACEMENT. THE CONTRACTOR SHALL PROTECT ALL NEW AND EXISTING UTILITIES FROM DANAGE. BRACE AND SUPPORT THE UTILITIES TO PREVENT SETTLEMENT, DISTALEMENT, OR INSTUMEMENTE ON THE UTILITY. STRUCTURAL STEEL WIDE FLANGE SHALE ON FORM TO ASTIM ASS, UNLESS NOTED OTHERWISE. STRUCTURAL STEEL PLATES. ANALOS SHALL CONFORM TO ASTIM ASS, UNLESS NOTED OTHERWISE. STRUCTURAL STEEL PLATES. ANALOS SHALL CONFORM TO ASTIM ASS, UNLESS NOTED OTHERWISE. STRUCTURAL STEEL PLATES. ANALOS SHALL CONFORM TO ASTIM ASS, UNLESS NOTED OTHERWISE. AALL STRUCTURAL STEEL SHALL BE STRUCTURAL CONFORM TO ASTIM ASS, UNLESS NOTED OTHERWISE. STRUCTURAL STEEL PLATES. ANALOS SHALL DONG SHALL DE CONTRICTORS THAT TRANSFER ANAL LODGEN TO ASTIM ASS. OR STRUCTURAL SECTIONS SHALL CONFORM TO ASTIM ASS. OR ASTIM ASS. OR ASTIM ASS. OR ASTIM ASS. AND ADD SHALL CONFORM TO ASTIM ASS. OR ASTIM AS						LLOW FOR EFFICIENT COMPACT	ION. NO FILL SHALL BE PLACED OVER A PREVIOU	S LIFT
 NO DOTINGS SHALL BE PLACED DOTO, OF ALXINST ELIGIBADE CONTINUES FRACTIONE CELESSION CONTINUES AND CONTROL OF MALER PROTOCI ON CELESSION CONTINUES AND CONTROL OF MALER PROTOCI ON CELESSION CONTROL OF MALER PROTOCI ON CELESSION CONTROL OF MALER PROTOCI ON CELESSION CONTROL OF MALER PROTOK CLESSING AND CONTROL OF MALER PROTOK CLESSING AND CONTROL OF MALER PLACING OF CONCRETE UNTIL SUCH SUBGRADES ARE FULLY PROTECTED BY THE PERMANENT BUILDING STRUCTURE. THE CONTROL FOR EARD AFTER PLACING OF CONCRETE UNTIL SUCH SUBGRADES ARE FULLY PROTECTED BY THE PERMANENT BUILDING STRUCTURE. THE CONTROL FOR EARD AFTER PLACING OF CONCRETE UNTIL SUCH SUBGRADES ARE FULLY PROTECTED BY THE PERMANENT BUILDING STRUCTURE. THE CONTROL FOR EARD PLACED POSTING THE RECORDER MAINED TO ELIGITIATION MARETER MAINERER, SLEEVES, CHASES, OFENINGS, DULTYONK, CONDUT, PADS, ANCHOR BOOS AND ALL OTHER TENDS THAT ARE REQUIRED BY MICRANICAL EQUIPMENT. THE CONTROL SHALL PROTECT ALL NEW AND DUSTING UTILIES FROM DAMAGE. BRACE AND SUPPORT THE UTILITIES TO PREVENT SETTIMENT, STRUCTUREL, CONFORM TO ASTM ASS. HOLLOW STRUCTURAL SECTIONS SHALL COUNNES AND EXCELSION ON MISCELLANEOUS MATERIAL SHALL CONFORM TO ASTM ASS. HOLLOW STRUCTURAL SECTIONS SHALL COUNNES SHALL BE ASTM PERMAN. ALL STRUCTURAL STEEL SHALL BE STRUCTURAL ADDREE OF TWIST. COLUMN BEARING DINS SHALL BE TRUE HAND SALL COUNNES AND AND ASTM ASS. OR ASTM AMM BOLICINA SHALL BE ASTM AFTER MALER DOT TO ASTM ASS. HOLLOW STRUCTURAL SECTIONS SHALL COUNNES AND AND SHALL COMPORE WITH ASC "SPECIFICATION FOR STRUCTURAL SECTIONS SHALL COLUMNS SHALL BE AND ASTM ASS. OR ASTM AMM BOLICINA SHALL BE OND RECORD AND ASSMALL SECTION TO ASTM ASS. HOLLOW STRUCTURAL SECTIONS SHALL COLUMNS SHALL BE ASTM AFTER AND ADDD SHALL DOWNEY WITH AN		7.				FOUNDATION WALL, PLACE BACK	FILL SIMULTANEOUSLY ON BOTH SIDES OF FOUN	DATION
ENTER AN EXCAVED AREA AFTER SUB-GRADE APPROVAL. THE SUB-GRADE SHALL BE REINSPECTED AFTER THE REMOVAL OF WATEFROOT ORK.E.	;	8.		S SHALL BE P	LACED ONTO, OR AGAINST S			
SUBGRADE BEFORE AND AFTER FLACING OF CONCERTE UNTIL SUCH SUBGRADES ARE FULLY PROTECTED BY THE PERMANENT BUILDING STRUCTURE. 1. THE CONCERTE FOR EACH ISOLATED FOOTING SHALL BE PLACED IN ONE (I) CONTINUOUS PLACEMENT. 1. THE CONTRACTOR SHALL BE RESPONDED FOR COORDANING THE LOCATION DRI PLACEMENT. 2. THE CONTRACTOR SHALL BE RESPONDED FOR COORDANING THE LOCATION DRI PLACEMENT. 3. STRUCTURAL STEEL MODE FLANCE SHALP CONTECT ALL NEW AND EXISTING UTLINES FROM DAMAGE. BRACE AND SUPPORT THE UTLINES TO PREVENT SETTLEMENT, DRI-LOCADINT, OR DISTURBANCE TO THE UTLINT. 5. STRUCTURAL STEEL 4. STRUCTURAL STEEL WIDE FLANCE SHALP CONFORM TO ASTIN ASP2, UNLESS NOTED OTHERWISE. STRUCTURAL STEEL PLATES, AGMO, ORDER D. 5. STRUCTURAL STEEL WIDE FLANCE SHALP CONFORM TO ASTIN ASP2, UNLESS NOTED OTHERWISE. STRUCTURAL STEEL PLATES, AGMO, ORDE D. 5. ALL CONTRACT ON SHALL BE ASTIM F164, GRADE 36, 34° DIAMETER WITH A 5° MINIMUM EMBEDIENT, UNLESS NOTED OTHERWISE. 5. ALL CONTRACT SHALL DE ASTIM F164, GRADE 36, 34° DIAMETER WITH A 5° MINIMUM EMBEDIENT, UNLESS NOTED OTHERWISE. 5. ALL CONTRACT SHALL BE ASTIM F164, GRADE 36, 34° DIAMETER WITH A 5° MINIMUM EMBEDIENT, UNLESS NOTED OTHERWISE. 5. ALL CONTRACT SHALL BE ASTIM F164, GRADE 36, 34° DIAMETER WITH A 5° MINIMUM EMBEDIENT, UNLESS NOTED OTHERWISE. 5. ALL CONTRACT SHALL BE ASTIM F164, GRADE 36, 34° DIAMETER WITH A 5° MINIMUM EMBEDIENT, UNLESS NOTED OTHERWISE. 5. ALL CONTRACT SHALL BE ASTIM F164, GRADE 36, 34° DIAMETER WITH A 5° MINIMUM EMBEDIENT, UNLESS NOTED OTHERWISE. 5. ALL BONTED CONTRO SHALL BE OTREIN ASTIN, STRUCTURAL SUBJECTIVE SHALL SHALP AND FREE OF TWIST. COLUMN BEARING ENDS SHALL BE TRUE AND SUBJECTIVE SHALL SHALP AND SHALL BE THRE ASC. 5. ALL BOATED CONNECTION THAT TRANSFER AXAL LOADS SHALL UTLIZE HIGH STRENGTI, SLIP CRITICAL BOLTS IN SINGLE OR DOUBLE SHEAR FOR THE ARCHITES. 5. MELCONSTRUCTION THAT TRANSFER AXAL LOADS SHALL COMPONENT TO AND SHALE SHALP AND CODE. STREL, LICHTER MINIMUM STRUCTURES. 5. MELCONSTSHALL BE PARENCETION SHALL BE DEVENDER AND SHALL COMPONENT TO				XCAVATED ARI	EA AFTER SUB-GRADE APPR	ROVAL, THE SUB-GRADE SHALL E	BE REINSPECTED AFTER THE REMOVAL OF WATER	FROST
 STRUCTURE. THE CONCRETE FOR EACH ISOLATED FOOTING SHALL BE PLACED IN ONE (1) CONTINUOUS PLACEMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE LOCATION AND PLACEMENT OF INSERTS, MANDERS, SLEEVES, CHASES, OPENINGS, DUCTWORK, CONDUTY, ADS, MACHOR RODS AND ALL OTHER TENS THAT ARE REQUIRED BY MECHANICAL EQUIPMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE LOCATION AND PLACEMENT OF INSERTS, MANDERS, SLEEVES, CHASES, OPENINGS, DUCTWORK, CONNECTMENT, OR DISTURBANCE TO THE UTILITIES FROM DAMAGE. BRACE AND SUPPORT THE UTILITIES TO PREVENT SETTLEMENT, OR DISTURBANCE TO THE UTILITIES FROM DAMAGE. BRACE AND SUPPORT THE UTILITIES TO PREVENT SETTLEMENT, OBPLACEMENT, OR DISTURBANCE TO THE UTILITY. STRUCTURA, STEEL WORE FLANCE SHAPES SHALL CONFORM TO ASTM A93, UNLESS NOTED OTHERWISE. STRUCTURAL STEEL PLATES, AND, GRADE B. OTHERWISE. LOCATION THANG, GRADE B. OTHERWISE. CONFORM TO ASTM A90, GRADE B. OTHERWISE. INTUITIONAL STEEL PLATES. MAND GRADE SHALL BE ASTM P154, GRADE 58, 30° JUANETER WITH A 9° MINIMUM EMBEDIENT, UNLESS NOTED OTHERWISE. ALL STRUCTURAL STEEL SHALL BE STRUCTURAL AND PREC OF TWIST. COLUMN BEARING ENDS SHALL BE TURE AND SQUARE. ALL COLUMNS SHALL BE AND MISSIEL BE THE AND ASC DARGE WITH ASC "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR ASTM A99 BOLTS' AND DOLTS' AND AND AND SHALL BE DONE BY CONTROL AND SHALL DE ADOLE SHALL COMPONITY AND DOLTACET SHALL AND AND AND SHALL BE ADDRUCE AND SHALL CONFORM TO AND AND DISC'S SHALL DE ADOLE SHALL COMPONITY AND SHALL CONFORM TO AND AND AND AND AND AND AND AND AND AND	9	9.						
 THE CONTRACTOR SHALL BE REPONSIBLE FOR COORDINATING THE LOATION AND PLACEMENT OF INSERTS, JANGGES SLEEVES, CHABES, OPENINGS, DICTNORY, CONDUT, PAOS, AND ALL OTHER TEMS THAT ARE REQUIRED BY MERTINATION. THE CONTRACTOR SHALL PROTECT ALL NEW AND DE XISTING UTURES FROM DAMAGE. BRACE AND SUPPORT THE UTULITES TO PREVENT SETTLEMENT, DEPLACEMENT, OR DISTURBANCE TO THE UTULITY. STRUCTURAL STEEL STRUCTURAL STEEL WIDE FLANGE SHAPES SHALL CONFORM TO ASTM ASS. UNLESS NOTED OTHERWISE. STRUCTURAL STEEL PLATES, AND, GRADE S. TAT 1554, GRADE 58, 247 DIAMETER WITH A 9' MINIWUM EMBEDMENT, UNLESS NOTED OTHERWISE. ALCHOR ROOS SHALL BE ASTM F1544, GRADE 58, 247 DIAMETER WITH A 9' MINIWUM EMBEDMENT, UNLESS NOTED OTHERWISE. ALL STRUCTURAL STEEL SHALL BE ASTM F1544, GRADE 58, 247 DIAMETER WITH A 9' MINIWUM EMBEDMENT, UNLESS NOTED OTHERWISE. ALL STRUCTURAL STEEL SHALL BE ASTM F1544, GRADE 58, 247 DIAMETER WITH ASC "SPECIFICATION FOR STRUCTURAL SCIENCES SHALL COLUMNS SHALL BE ASTM DIAMES AND MARCELLANEOUS MATERIAL STRUCTURAL STRUCTURAL AND STRUCTURAL DATES ON THE AND THE AST A 325 OR ASTM A325 OR ASTM A325 OR ASTM A329 OR ASTM A339 OR UNITS USING ASTM A325 OR ASTM A349 BOLTS 'AND BOLTS WALL BE 34* DIAMETER MINIMANIAL HILLE HIGH STRUCTURAL UNLTURAL JOINTS USING ASTM A325 OR ASTM A349 BOLTS 'AND BOLTS WALL BE 34* DIAMETER MINIMANIAL COMPORNTO AWS D1.1* STRUCTURAL UNITS USING ASTM A325 OR ASTM A349 BOLTS 'AND BOLTS BALL DEN IN ACCORDANCE WITH ASC "SPECIFICATION FOR STRUCTURAL UNITS USING ASTM A325 OR ASTM A329 OR ASTM					FIER PLACING OF CONCRE	TE UNTIL SUCH SUBGRADES AR	FULLY PROTECTED BY THE PERMANENT BUILDIN	16
 OPENINGS, DUCTWORK, CONDUIT, PADS, ANCHOR RODS AND ALL OTHER TENS THAT ARE REQUIRED BY MECHANICAL EQUIPMENT. THE CONTRACTOR SHALL PROYED TALL INSWING EXISTING UTLITIES FROM DAMAGE. BRAGE AND SUPPORT THE UTLITIES TO PREVENT SETTLEMENT. DISPLACEMENT, OR DISTURBANCE TO THE UTLITY. STRUCTURAL STEEL STRUCTURAL STEEL MOE FLANGE SHAPES SHALL CONFORM TO ASTM ASS. MOTED OTHERWISE. STRUCTURAL STEEL PLATES. AND GRAVE B. MIGCELLARGOUS MATERIAL SHALL CONFORM TO ASTM ASS. MOTED OTHERWISE. STRUCTURAL STEEL PLATES. ANCHOR RODS SHALL BE ASTM F1554, GRADE 35, 34° DIAMETER WITH A 9° MINIMUM EMBEDMENT, UNLESS NOTED OTHERWISE. ANCHOR RODS SHALL BE ASTM F1554, GRADE 35, 34° DIAMETER WITH A 9° MINIMUM EMBEDMENT, UNLESS NOTED OTHERWISE. ALL STRUCTURAL STEEL SHALL BE STRAGHT AND FREE OF TWIST. COLUMN BEARING ENDS SHALL BE TRUE AND SQUARE. ALL COLUMNS SHALL BE PLUMB ADL LEVEL BEARMON. HIGH STREMENTI BOLTING BYALL DE SOTH IN ACCORDANCE WITH ASC "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR ASTM A93 DOLTS" AND BOLTS SHALL DE STRUCTURAL DE DONE IN ACCORDANCE WITH ASC "SPECIFICATION FOR STRUCTURAL DOLTS IN SINGLE OR DOUBLE SHEAR FOR THE CANADITES REQUIRED. NEW YORK ORD SHALL BOLTS IN SINGLE OR DOUBLE SHEAR FOR THE CANADITES REQUIRED. ALL BOLTED CONNECTIONS THAT TRANSFER AXIAL LOADS SHALL CONFORM TO AWS D1.1 "STRUCTURAL WELDING CODE - STEEL", LATEST EDITION, ALL WELDING SLEE OFMENT THAN SECONE STIMAL TO WISE SINCED OTHERWISE. UNLESS NOTED OTHERWISE, CONNECTIONS SHALL DE ETHER AISC SINGLE PLATE OR DOUBLE ANGLE SHEAR CONNECTIONS USING A325 N BOLTS. BEAMS AND JOISTS SHALL BE FABRICATED WITH THE NATURAL CAMBER UP. THERE SHALL BE NO FUEL CUTTING OF STRUCTURAL STEEL MEMBERS FOR THE WORK OF OTHER TRADES WITHOUT THE PRIOR WRITTEN APPROVAL OF THE ACHTECH. MEEDS ONTED OTHERWISE, CONTECTIONS SHALL BE ENDITIES SHOULD DE ANGLE SHALL BE RECTOR NO ASA25 N BOLTS. DIALD		10.						
SETTLEMENT, DISPLACEMENT, OR DISTURBANCE TO THE UTILITY. STILUTURAL STEEL I STRUCTURAL STEEL I STRUCTURAL STEEL I STRUCTURAL STEEL WIDE FLANCE SHARES SHALL CONFORM TO ASTM ASS. INOLOW STRUCTURAL SECTIONS SHALL CONFORM TO ASTM ASO, GRADE B. ANGLES, CHANNELS AND MISCILANEOUS MATERIAL SHALL CONFORM TO ASTM ASS. HOLLOW STRUCTURAL SECTIONS SHALL CONFORM TO ASTM ASO, GRADE B. ANGHOR RODS SHALL BE ASTM F1554, GRADE 36, 34" DIAMETER WITH A 5" MINIMUM EMBEDMENT, UNLESS NOTED OTHERWISE. ANGHOR RODS SHALL BE ASTM F1554, GRADE 36, 34" DIAMETER WITH A 5" MINIMUM EMBEDMENT, UNLESS NOTED OTHERWISE. ALL STRUCTURAL STEEL SHALL BE STRAIGHT AND FREE OF TWIST. COLUMN BEARING ENDS SHALL BE TRUE AND SQUARE. ALL COLUMNS SHALL BE PLUMB ADD LEVEL BEARMO. HICH STRENDTH BD.TING SHALL BE STRAIGHT AND FREE OF TWIST. COLUMN BEARING ENDS SHALL DO THE USING ASTM A325 OR ASTM A390 BOLTS" AND SOLTS SHALL BE STRAIGHT RIMINAM. ALL BOLTED CONNECTIONS THAT TRANSFER AXIAL LODOS SHALL UTILZE HIGH STRENDTH, SLIP CRITICAL BOLTS IN SINGLE OR DOUBLE SHEAR FOR THE CAPACITIES REQURES THAN 315", UNXIS DO TREQUREMENTS. THE MINIMUM FILLET WELD SIZE SHALL COMPLY WITH ASC REQUREMENTS, SOLTED OTHERWISE, CONNECTIONS THAT TRANSFER AXIAL LODOF REQUREMENTS. THE MINIMUM FILLET WELD SIZE SHALL COMPLY WITH ASC REQUREMENTS, SOLTED OTHERWISE, CONNECTIONS SHALL BE ETHER AISC SINGLE OFHERWISE. UNLESS NOTED OTHERWISE, CONNECTIONS SHALL BE ETHER AISC SINGLE OFHERWISE. UNLESS NOTED OTHERWISE, CONNECTIONS SHALL BE FOR STAN SIGL WITH THE NATURAL COMPLEX UP. B THERE SHALL BE NO FIELD CUTING OF STRUCTURAL STEEL MEMBERS FOR THE WORK OF OTHER TRADES WITHOUT THE PRIOR WRITTEN APPTON. I UNLESS NOTED OTHERWISE, CONNECTIONS SHALL BE FORMED STICL SEVENCE I UNITES SHALL BE CONTINUOUS BRIDING MEMBERS FASTENED DIFECTLY TO EACH JOIST. BRIDING SHALL BE DESIGNED IN ACCORDANCE WITH THE RESTRUCTION. I HERE SHALL BE NOTHER CONTINUOUS BRIDING MEMBERS FASTENED DIFECTLY TO EACH JOIST. BRIDING SHALL BE DESIGNED TO ACCORDANCE WITH THE RESTREND. I HERE SHALL BE CONTENTUCES SEGREGATION WAS SHALL BE FOR		11.						ASES,
STRUCTURAL STEEL 1. STRUCTURAL STEEL WIDE FLANCE SHAPES SHALL CONFORM TO ASTM ASP. UNLESS NOTED OTHERWISE. STRUCTURAL STEEL PLATES, AND MISCILL ONDOWN TO ASTM ASP. HOLLOW STRUCTURAL SECTIONS GHALL CONFORM TO ASTM ASP. HOLLOW STRUCTURAL SECTIONS GHALL COLUMNS SHALL BE 2. ANCHOR RODS SHALL BE ASTM STRUCTURAL STRUCTURAL DISTRUCTURAL JOINTS USING ASTM A322 OR ASTM A990 BOOLTING STRUCTURAL JOINTS USING ASTM A322 OR ASTM A990 BOOLTING SHALL BE CONFECTIONS THAT TRANSFER AXIAL LOADS SHALL UTLIZE HIGH STRENGTH, SLIP CRITICAL BOLTS IN SINGLE OR DOUBLE SHEAR FOR THE CAPACITIES REQUIRED. 3. ALL BOLTED CONNECTIONS THAT TRANSFER AXIAL LOADS SHALL UTLIZE HIGH STRENGTH, SLIP CRITICAL BOLTS IN SINGLE OR DOUBLE SHEAR FOR THE CAPACITIES REQUIRED. 4. HUELDING SLIP CONNECTIONS SHALL DELESS THAN 316°, UNLESS NOTED OTHERWISE. 5. MUELDING SLIP CONTODS SHALL CONNECTIONS SHALL CONFORM TO ASTM D1 1 "STRUCTURAL HUELDING CODE - STEEL", LATEST EDITION, ALL MELDING TODE SHALL BOLTONESS SHALL BOLTS. 6. MUELDING SLIP CONTON SCHALL DELESS THAN 316°, UNLESS NOTED OTHERWISE. 7. INDELSS NOTED OTHERWISE, CONNECTIONS SHALL BE OTHER ASC SINGLE PLATE OR DOUBLE ANGLE SHEAR CONNECTIONS USING A325-N BOOLTS. 8. BEAMS AND JOISTS SHALL BE FABRICATED WITH THE NATURAL CAMBER UP. 9. THERE SHALL BE NOTED OTHERWISE, CONTENTING STRUCTURAL CAMBER UP. 9. <td></td> <td>12.</td> <td></td> <td></td> <td></td> <td></td> <td>BRACE AND SUPPORT THE UTILITIES TO PREVEN</td> <td>т</td>		12.					BRACE AND SUPPORT THE UTILITIES TO PREVEN	т
 STRUCTURAL STEEL WIDE FLANGE SHAPES SHALL CONFORM TO ASTM A992, UNLESS NOTED OTHERWISE. STRUCTURAL STEEL PLATES, AND MSCELLANEOUS MATERIAL SMALL CONFORM TO ASTM A38. HOLLOW STRUCTURAL SECTIONS SHALL CONFORM TO ASTM A90, GRADE # ANCHOR ROOS SHALL BE ASTM F1554, GRADE 96, 34° DIAMETER WITH A 9° MINIMUM EMBEDMENT, UNLESS NOTED OTHERWISE. ALL STRUCTURAL STEEL SHALL BE STRAGHT AND FREE OF TWIST. COLUMN BEARING ENDS SHALL BE TRUE AND SQUARE, ALL COLUMNS SHALL BE PLUMB AND LEVEL BEARING. HIGH STRENGTH BOLTING SHALL BE DONE IN ACCORDANCE WITH A 9° MINIMUM EMBEDMENT, UNLESS NOTED OTHERWISE. HIGH STRUCTURAL STEEL SHALL BE ASTRUGHT AND FREE OF TWIST. COLUMN BEARING ENDS SHALL BE TRUE AND SQUARE, ALL COLUMNS SHALL BE PLUMB AND LEVEL BEARING. HIGH STRUCTURAL STEEL BEARING. HIGH STRUCTURAL STEEL BEARING. HIGH STRUCTURAL STEEL BOOME IN ACCORDANCE WITH A 90° MINIMUM EMBEDMENT, UNLESS NOTED OTHER AND ASS OR ASTM A990 BOLTS' AND BOLTS BHALL BE DONE THAT TRANSFER AXIAL LOADS SHALL UTLIZE HIGH STRENGTH, SLIP CRITICAL BOLTS IN SINGLE OR DOUBLE SHEAR FOR THE GARACTIBES REQUIRED. WELDING SHALL BE DONE BY CERTIFIED WELDERS AND SHALL CONFORM TO AWS D1 1*STRUCTURAL WELDING CODE - STEEL", LATEST EDITION. ALL WELDING TEED OTHERWISE, CONNECTIONS SHALL BE DONE TRANSFER AND AND SCORD REQUIREMENTS. THE MINIMUM FILLET WELD SIZE SHALL COMPLY WITH ASC REQUIREMENTS. THE MINIMUM FILLES NOTED OTHERWISE, CONNECTIONS SHALL BE ETHER AISC SINGLE PLATE OR DOUBLE ANGLE SHEAR CONNECTIONS USING A325 H BOLTS. UNLESS NOTED OTHERWISE, CONNECTIONS SHALL BE ETHER AISC SINGLE PLATE OR DOUBLE ANGLE SHEAR CONNECTIONS USING A325 H BOLTS. UNLESS NOTED OTHERWISE, CONNECTIONS SHALL BE ETHER AISC SINGLE PLATE OR DOUBLE ANGLE SHEAR CONNECTIONS USING A325 H BOLTS. UNLESS NOTED OTHERWISE, CONNECTIONS WILL DIST BURDERS FASTENED DIRECTLY TO EACH JOIST. MINIPALTING SHEALL BE DESIGNED IN ACCORDANCE WITH THE ASC REQUIREMENT					ENT, OR DISTURBANCE TO T			
ANGLES, CHANNELS AND MISCELLANEOUS MATERIAL SHALL CONFORM TO ASTM ASE. HOLLOW STRUCTURAL SECTIONS SHALL CONFORM TO ASTM ASO, GRADE B. 2. ANCHOR RODS SHALL BE ASTM F1554, GRADE 36, 34* DIAMETER WITH A 9* MINIMUM EMBEDMENT, UNLESS NOTED OTHERWISE. 3. ALL STRUCTURAL STEEL SHALL BE STRUCHT AND FREE OF TWIST. COLUMN BEARING ENDS SHALL BE TRUE AND SQUARE. ALL COLUMNS SHALL BE PLUMB AND LEVEL BEARING. 4. HIGH STRENOTH BOLTING SHALL BE DONE IN ACCORDANCE WITH AISC "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR ASTM A490 BOLTS" AND BOLTS SHALL BE 34* DIAMETER MINIMUM. 5. ALL BOLTED CONNECTIONS THAT TRANSFER XAIL, LOADS SHALL LONFORM TO AWS D1.1*STRUCTURAL WELDING CODE - STEEL", LATEST EDITION. ALL WOLDING SHALL BE DONE BY CERTIFIED WELDERS AND SHALL CONFORM TO AWS D1.1*STRUCTURAL WELDING CODE - STEEL", LATEST EDITION. ALL WOLDING SHALL BE DONE BY CERTIFIED WELDERS AND SHALL CONFORM TO AWS D1.1*STRUCTURAL WELDING CODE - STEEL", LATEST EDITION. ALL WELDING SHALL BE DONE BY CERTIFIED WELDERS AND SHALL CONFORM TO AWS D1.1*STRUCTURAL WELDING CODE - STEEL", LATEST EDITION. ALL WELDING SHALL BE DONE BY CERTIFIED WELDERS AND SHALL CONFORM TO AWS D1.1*STRUCTURAL WELDING CODE - STEEL", LATEST EDITION. ALL WELDING SHALL BE DONE BY CERTIFIED WELDERS AND SHALL CONFORM TO AWS D1.1*STRUCTURAL WELDING CODE - STEEL", LATEST EDITION. ALL WELDING SHALL BE DONE BY CERTIFIED WELDERS AND SHALL CONFORM TO AWS D1.1*STRUCTURAL WELDING CODE - STEEL", LATEST EDITION. ALL WELDING SHALL BE DONE BY CERTIFIED WELDERS AND SHALL CONFORM TO AWS D1.1*STRUCTURAL STAEL STARA 30% D10/STS SHALL COMPLY WITH AISC REQUIREMENTS, BUT SHALL OLE USES THAN 31*C, UNLESS NOTED OTHERWISE. 5. THERE SHALL SEN ONE DTOTION OF STRUCTURAL STEEL MEMBERS FOR THE WORK OF OTHER TRADES WITHOUT THE PRIOR WITTEN APPROVAL OF THE RECOTTOR OTHERWISE, CONNECTION STRUCTURAL STEEL FRAME 5. THERE SHALL BE DOR DITION OF STRUCTURAL STEEL MEMBERS FOR THE WORK OF OTHER TRADES WITHOUT THE PRIOR WITTEN 5. THERE SHALL BE DOR THE DUSC. MANUNUS DECK TOT THE AND THE WORK OF OTHER TRADES WI	-			-				
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APPROVAL OF THE ARCHITECT. STEEL JOISTS 1. JOISTS SHALL REQUIRE CONTINUOUS BRIDGING MEMBERS FASTENED DIRECTLY TO EACH JOIST. BRIDGING SHALL BE DESIGNED IN ACCORDANCE WITH THE "STEEL JOIST INSTITUTE SPECIFICATION" AND SHALL BE PROVIDED BY THE JOIST MANUFACTURER. 2. ROUND MEMBERS FOR BOTTOM CHORDS WILL NOT BE ACCEPTABLE FOR JOISTS. USE ONLY DOUBLE ANGLE BOTTOM CHORDS. 3. UNLESS NOTED OTHERWISE, HANGING LOADS FROM JOISTS SHALL BE ONLY FROM DIAGONAL INTERSECTION POINTS AND ONL'ACCEPTABLE JOIST HANGER DEVICES. 4. THE CONTRACTOR SHALL COORDINATE COLUMN CAP PLATES WITH THREADED STUDS AS REQUIRED FOR JOIST SEAT ATTACHMENT WITSTEEL FABRICATOR. STRUCTURAL METAL DECK 1. METAL DECKING SHALL BE WELDED AT 12 INCHES MAXIMUM ON CENTER TO THE SUPPORTING STEEL, WITH A MINIMUM 5/8-INCH DIAMETER WELD. SIDE LAPS SHALL BE FASTENED AT 24 INCHES MAXIMUM ON CENTER. NO WELD OR FASTENER SPACING SHALL BE GREATER THAN THAT RECOMMENDED BY THE DECK MANUFACTURER. 2. THE METAL DECK SHALL BE DESIGNED TO BE UNSHORED AND TO BE CONTINUOUS OVER THREE (3) SPANS IN THE DIRECTION INDICATED. SINGLE AND DOUBLE SPANS, IF REQUIRED, SHALL SATISFY LOAD AND DEFLECTION REQUIREMENTS. 3. PROVIDE CONTINUOUS 16 GA. MINIMUM SHEET METAL CLOSURES AT SLAB OPENINGS AND SLAB EDGES AND CONTINUOUS DECK CLOSURE AT DECK ENDS. 4. PROVIDE, AS REQUIRED, RIDGE AND VALLEY PLATES, COLUMN CLOSURES, CANT STRIPS, SUMP PLATES AT PIPING PENETRATIONS AND RECESSED SUMP PANS AT ROOF DRAINS. PROVIDE SUPPLEMENTAL FRAMING AT OPENINGS AS REQUIRED FOR SUPPORT OF THE METAL DECK. OPENINGS HALL BECORDINATE WITH ARCHITECTURAL AND MECHANICAL DRAWINKS. 5. ANY METAL DECK OPENING THAT IS 12-INCH DIAMET	1	8.	BEAMS AND	JOISTS SHALL	. BE FABRICATED WITH THE	NATURAL CAMBER UP.		
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<u>ONCRETE</u>

ALL CONCRETE WORK SHALL COMPLY TO THE LATEST EDITIONS OF THE AMERICAN CONCRETE INSTITUTE PUBLICATIONS:

ACI 301 – SPECIFICATIONS FOR STRUCTURAL CONCRETE ACI 304R – GUIDE FOR MEASURING, MIXING, TRANSPORTING AND PLACING CONCRETE

ACI 306R – COLD WEATHER CONCRETING

ACI 308R – GUIDE TO CURING CONCRETE

ACI 318 – BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE AND COMMENTARY ACI 347 – GUIDE TO FORMWORK FOR CONCRETE

UNLESS NOTED OTHERWISE, CONCRETE SHALL BE NORMAL WEIGHT CONCRETE AND SHALL DEVELOP 4,000 PSI MINIMUM COMPRESSIVE STRENGTH IN 28 DAYS.

DO NOT USE ANY CALCIUM CHLORIDE IN ANY CONCRETE.

VERTICAL WALL CONSTRUCTION JOINTS SHALL BE FORMED WITH VERTICAL BULKHEADS AND KEYWAYS. WALL REINFORCING SHALL BE CONTINUOUS THROUGH THE JOINT OR SHALL BE DOWELED WITH AN EQUIVALENT AREA OF REINFORCEMENT. WIRE BRUSH, CLEAN AND MOISTEN ALL CONSTRUCTION JOINTS IMMEDIATELY PRIOR TO PLACING NEW CONCRETE.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE LOCATION AND PLACEMENT OF INSERTS, EMBEDDED PLATES, MASONRY ANCHORS, REGLETS, SLEEVES, DUCTWORK, PADS AND ANCHOR RODS. THE INSERTS, EMBEDDED PLATES, ETC. SHALL NOT INTERFERE WITH CONCRETE REINFORCEMENT LOCATION. THE GENERAL CONTRACTOR SHALL VERIFY ALL OPENINGS THROUGH WALLS WITH SHOP DRAWINGS, SHOWING OPENINGS IN THE SLABS INCLUDING, BUT NOT LIMITED TO, SLEEVE SIZES AND LOCATIONS, DUCT SIZE AND LOCATION, ETC.

INFORCEMENT

REINFORCEMENT SHALL CONFORM TO ASTM SPECIFICATION A615, GRADE 60. REINFORCEMENT TO BE WELDED SHALL CONFORM TO ASTM SPECIFICATION A706, GRADE 60. WELDED WIRE FABRIC SHALL CONFORM TO ASTM SPECIFICATION A185, FLAT SHEETS ONLY.

CORNER BARS SHALL BE PROVIDED AT WALL CORNERS EQUAL TO THE HORIZONTAL WALL REINFORCEMENT.

ALL CONCRETE FORMED WALL OPENINGS SHALL BE REINFORCED WITH 2 NO. 4 BARS, 24" LONG, PLACED ONE IN EACH FACE AT 45 DEGREES TO OPENING CORNERS.

THE CONCRETE COVER PROVIDED FOR ALL REINFORCEMENT SHALL COMPLY WITH ACI, 318, LATEST EDITION. THE FOLLOWING CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT UNLESS NOTED OTHERWISE:

3

3/4

COVER. (INCHES)

CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: CONCRETE EXPOSED TO EARTH OR WEATHER:

NO. 5 BAR, W31 OR D31 WIRE, AND SMALLER1 1/2CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:

NO. 11 BAR AND SMALLER

PROVIDE ALL ACCESSORIES NECESSARY TO SUPPORT ALL REINFORCEMENT AT THE POSITIONS INDICATED.

ALL EMBEDMENT LENGTHS AND LAPS SHALL BE AS REQUIRED BY ACI 318. UNLESS NOTED OTHERWISE, MINIMUM LAP SHALL BE 40 BAR DIAMETERS.

DESIGN LOADS:

DEAD LOADS, SUPERIMPOSED

	ROOF		22 psf
IVE L	<u>OADS</u>		
	ROOF		20 psf
SNOW	<u>LOAD</u>		
	DESIGN UNIFORM ROOF SNOW LOAD, GROUND SNOW LOAD, FLAT ROOF SNOW LOAD, BALANCED SNOW LOAD, SNOW EXPOSURE FACTOR, SNOW IMPORTANCE FACTOR, THERMAL FACTOR, SLOPED ROOF FACTOR,	Pg = Pf = Ps = Ce = Is = Ct = Cs =	20 psf 20 psf 14.0 psf 1.00 1.10 1.00 1.00 1.00

WIND LOAD

SEISMIC

ULTIMATE DESIGN WIND SPEED, NOMINAL DESIGN WIND SPEED,	115 MPH 90 MPH
RISK CATEGORY,	II
MEAN ROOF HEIGHT	h = 40 ft
WIND EXPOSURE CATEGORY	С
ENCLOSURE CLASSIFICATION	ENCLOSED BUILDING
INTERNAL PRESSURE COEFFICIENT,	GCpi = +/-0.18
DIRECTIONALITY,	Kd = 0.85
NET UPLIFT	5 psf

COMPONENT AND CLADDING, NOMINAL WIND PRESSURES, C&C < 60'

SURFACE PRE	SURFACE PRESSURE (psf)			
AREA	10 sf	50 sf	100 sf	
Negative Zone 1 Negative Zone 2 Negative Zone 3 Positive Zones	-21.3 -35.7 -53.7 10.0	-20.0 -26.9 -32.3 10.0	-19.5 -23.1 -23.1 10.0	
Overhang Zone 1 & 2 Overhang Zone 3	-30.6 -50.5	-29.4 -25.3	-28.7 -14.4	
SURFACE PRE	ESSURE	(psf)		
AREA	10 sf	100 sf	500 sf	
Negative Zone 4 Negative Zone 5 Positive Zone 4 & 5	-21.1 -25.9 19.5	-18.2 -20.2 16.6	-16.2 -16.2 14.6	
SURFACE PRE	ESSURE	(psf)		
AREA	10 sf	100 sf	500 sf	
INTERIOR ZONE CORNER ZONE	49.2 67.4	33.5 33.5	31.5 31.5	
INTERIOR ZONE CORNER ZONE	-34.4 -39.3	-28.6 -30.6	-24.6 -24.6	
GORY	le =	1.00 III 19.80% 9.5%g C 0.158 0.108 B	g	
/STEM OEFFICIENT, FION FACTOR,	WALL ORDIN V = Cs = R =	SYSTEM ARY PRE 0.053W 0.053 3	S ECAST : /	
	AREA Negative Zone 1 Negative Zone 2 Negative Zone 3 Positive Zones Overhang Zone 1 & 2 Overhang Zone 3 SURFACE PRE AREA Negative Zone 4 Negative Zone 4 NERIOR ZONE INTERIOR ZONE	AREA10 sfNegative Zone 1-21.3Negative Zone 2-35.7Negative Zone 3-53.7Positive Zones10.0Overhang Zone 1 & 2-30.6Overhang Zone 3-50.5SURFACE PRESSUREAREA10 sfNegative Zone 4-21.1Negative Zone 5-25.9Positive Zone 4 & 519.5SURFACE PRESSUREAREA10 sfINTERIOR ZONE 49.2CORNER ZONE 67.4INTERIOR ZONE 67.4INTERIOR ZONE -34.4CORNER ZONE -39.3FACTOR,Ie =GORY YSTEMBUILDI WALL(STEM ORDIN V =OEFFICIENT, FION FACTOR,Cs =	AREA 10 sf 50 sf Negative Zone 1 -21.3 -20.0 Negative Zone 2 -35.7 -26.9 Negative Zone 3 -53.7 -32.3 Positive Zones 10.0 10.0 Overhang Zone 1 & 2 -30.6 -29.4 Overhang Zone 3 -50.5 -25.3 SURFACE PRESSURE (psf) AREA 10 sf 100 sf Negative Zone 4 -21.1 -18.2 Negative Zone 5 -25.9 -20.2 Positive Zone 4 -21.1 -18.2 Negative Zone 5 -25.9 -20.2 Positive Zone 4 & 5 19.5 16.6 SURFACE PRESSURE (psf) AREA 10 sf 100 sf INTERIOR ZONE 49.2 33.5 CORNER ZONE -39.3 -30.6 FACTOR, Ie = 1.00 III 19.80% 9.5%g C 0.108 0.108 GORY B V 0.053W <tr< td=""></tr<>	

BE/	AM REACTIO	ON SCHEDU	JLE
BEAM SIZE	REACTION (kips)	BEAM SIZE	REACTION (kips)
W8		С	
W10			
W12	15k	HSS 10	12k
W14		HSS 12	18k
W16			
W18			
W21			
W24	22k		
W27			

		STRI	JCTURAL CO	LUMN SCHEDULE				
		TOP PLATE			BASE PLATE			
	ELEVATIO	ELEVATIO						
COLUMN MARK	N	SIZE	DETAIL	SECTION	ELEVATION	SIZE	DETAIL	
A.5-9	134' - 0"	11 x 11 x 3/4"		W10X54	98' - 4 1/2"	16 x 12 x 3/4"	11/S102	
B-6	136' - 2"	16 x 11 x 3/4"	17/S301	HSS10X10X1/2	98' - 7 1/2"	16 x 16 x 3/4"	9/S102	
B-7	136' - 2"	16 x 11 x 3/4"	17/S301	HSS10X10X1/2	98' - 7 1/2"	16 x 16 x 3/4"	9/S102	
B-8	136' - 2"	16 x 11 x 3/4"	17/S301	HSS10X10X1/2	98' - 7 1/2"	16 x 16 x 3/4"	9/S102	
B-9	137' - 5"	1/4" FITTED		HSS10X10X1/2	98' - 4 1/2"	33 x 12 x 3/4"	14/S102	
B.5-9	137' - 5"			W10X54	98' - 4 1/2"	16 x 12 x 3/4"	11/S102	
C-6	137' - 2 1/2"	16 x 11 x 3/4"	17/S301	HSS10X10X1/2	98' - 7 1/2"	16 x 16 x 3/4"	9/S102	
C-7	137' - 2 1/2"	16 x 11 x 3/4"	17/S301	HSS10X10X1/2	98' - 7 1/2"	16 x 16 x 3/4"	9/S102	
C-8	137' - 2 1/2"	16 x 11 x 3/4"	17/S301	HSS10X10X1/2	98' - 7 1/2"	16 x 16 x 3/4"	9/S102	
C-9	137' - 5"	1/4" FITTED		HSS10X10X1/2	98' - 4 1/2"	33 x 12 x 3/4"	14/S102	
C.5-9	134' - 0"	11 x 11 x 3/4"		W10X54	98' - 4 1/2"	16 x 12 x 3/4"	11/S10	
D-6	136' - 2"	16 x 11 x 3/4"	17/S301	HSS10X10X1/2	98' - 7 1/2"	16 x 16 x 3/4"	9/S102	
D-7	136' - 2"	16 x 11 x 3/4"	17/S301	HSS10X10X1/2	98' - 7 1/2"	16 x 16 x 3/4"	9/S102	
D-8	136' - 2"	16 x 11 x 3/4"	17/S301	HSS10X10X1/2	98' - 7 1/2"	16 x 16 x 3/4"	9/S102	
D-9	137' - 5"	1/4" FITTED		HSS10X10X1/2	98' - 4 1/2"	33 x 12 x 3/4"	14/S10	
D.5-9	137' - 5"			W10X54	98' - 4 1/2"	16 x 12 x 3/4"	11/S10	
E-6	137' - 2 1/2"	16 x 11 x 3/4"	17/S301	HSS10X10X1/2	98' - 7 1/2"	16 x 16 x 3/4"	9/S102	
E-7	137' - 2 1/2"	16 x 11 x 3/4"	17/S301	HSS10X10X1/2	98' - 7 1/2"	16 x 16 x 3/4"	9/S102	
E-8	137' - 2 1/2"	16 x 11 x 3/4"	17/S301	HSS10X10X1/2	98' - 7 1/2"	16 x 16 x 3/4"	9/S102	
E-9	137' - 5"	1/4" FITTED		HSS10X10X1/2	98' - 4 1/2"	33 x 12 x 3/4"	14/S10	
E.5-9	134' - 0"	11 x 11 x 3/4"		W10X54	98' - 4 1/2"	16 x 12 x 3/4"	11/S10	
F-1(-6")	133' - 0"	1/4" FITTED		HSS8X8X3/8	98' - 1 1/2"	16 x 12 x 3/4"	22/S10	
F-2	137' - 5"	1/4" FITTED		HSS8X8X3/8	99' - 1 1/2"	14 x 14 x 3/4"	15/S10	
F-3(-6")	137' - 0 3/8"	10 x 9 x 1/2"	1/S301	HSS8X8X3/8	98' - 1 1/2"	14 x 12 x 3/4"	21/S10	
G-1(-6")	133' - 0"	1/4" FITTED		HSS8X8X3/8	98' - 1 1/2"	16 x 12 x 3/4"	22/S10	
G-2	137' - 5"	1/4" FITTED		HSS8X8X3/8	99' - 1 1/2"	14 x 14 x 3/4"	15/S10	
G-3(-6")	136' - 11"	1/4" FITTED		HSS8X8X3/8	99' - 1 1/2"	14 x 14 x 3/4"	16/S10	
G-4	136' - 6 1/2"	1/4" FITTED		HSS8X8X3/8	99' - 1 1/2"	16 x 14 x 3/4"	16/S10	
G-5	136' - 10 3/4"	1/4" FITTED		HSS8X8X3/8	99' - 1 1/2"	16 x 14 x 3/4"	16/S102	
G-6	137' - 5"	1/4" FITTED		HSS10X10X1/2	98' - 1 1/2"	16 x 16 x 3/4"	2/S102	
H(-6")-1(-6")	133' - 0"	1/4" FITTED		HSS8X8X3/8	98' - 1 1/2"	14 x 14 x 3/4"	12/S10	
H(-6")-2	133' - 0"	1/4" FITTED		HSS8X8X3/8	98' - 1 1/2"	14 x 14 x 3/4"	12/S10	
H(-6")-4	133' - 0"	1/4" FITTED		HSS8X8X3/8	98' - 1 1/2"	16 x 12 x 3/4"	22/S10	
H(-6")-5	133' - 0"	1/4" FITTED		HSS8X8X3/8	98' - 1 1/2"	16 x 12 x 3/4"	22/S10	

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FOOTING SCHEI	DULE		F'b = 2,500 psf f'c = 4,000 psi min.	fy = 60,000 psi
FOOTING MARK	SIZE (L x W)	"t"	BOTTOM BARS (EACH WAY)	TOP BARS (EACH WAY)
F 6.0	6'-0" x 6'-0"	12"	8-#5	
F 6.5	6'-0" x 6'-0"	24"	8-#6	
F 7.0	7'-0" x 7'-0"	15"	8-#5	
F 9.0	9'-0" x 9'-0"	15"	8-#6	
F 9.5	9'-0" x 9'-0"	18"	8-#6	
F 9.75	9'-0" x 9'-0"	24"	9-#6	

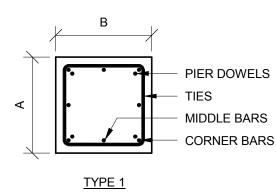
]
CONCRE	IEP	IER SCHE	DULE				
			REINFORCE	REINFORCEMENT			
PIER MARK	TYPE	SIZE (A x B)	CORNER	MIDDLE	TIES	DOWELS	REMARKS
P 1	1	16" x 16"	4-#6	4-#5	#3@8"	4-#6	
P 2	2	18" x 16"	4-#5	6-#5	#3@8"	4-#5	

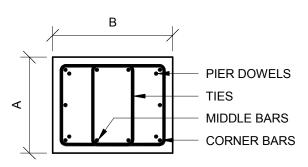
NOTES:

1. SEE FOUNDATION PLANS FOR TOP OF PIER ELEVATIONS

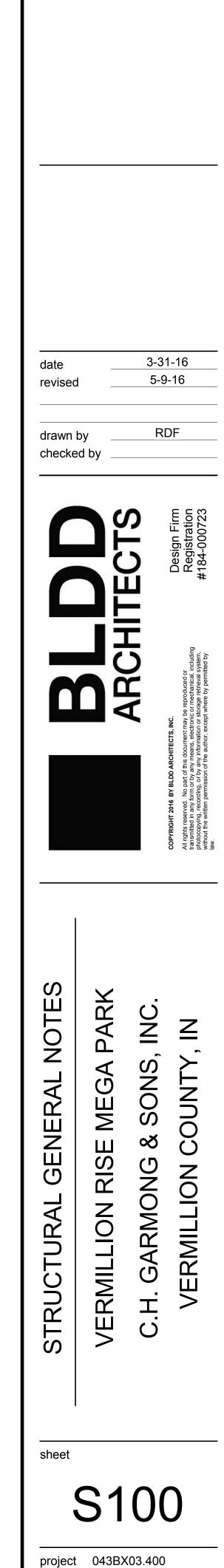
2. SIZE INDICATED REFERS TO PIER SIZE, SEE FOUNDATION PLANS AND DETAILS FOR RECESSED FOUNDATION/ COLUMN POCKET SIZES.

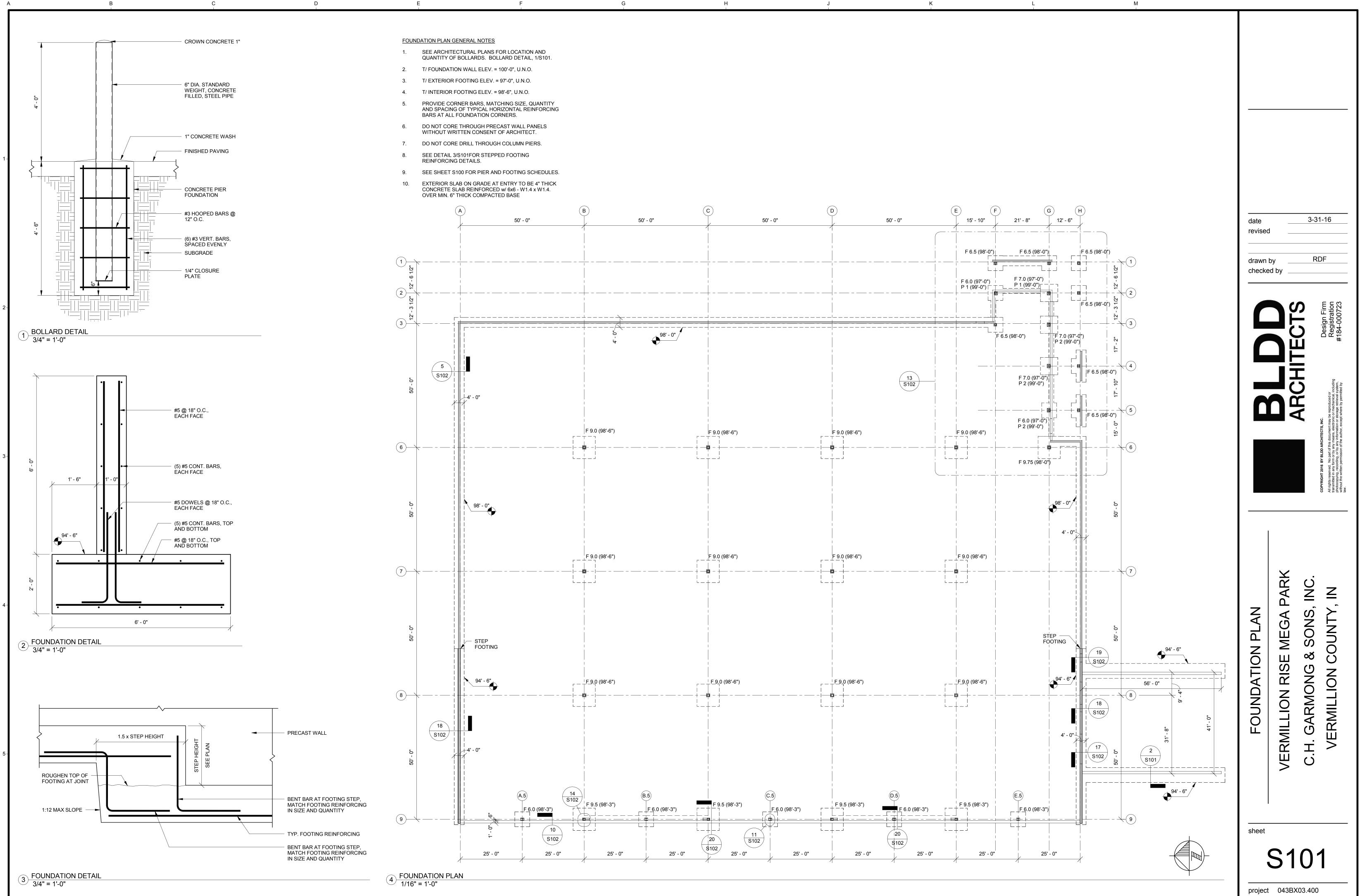
FILL ALL POCKETS WITH CONCRETE AFTER THE STEEL FRAME IS ERECTED AND PLUMB.
 SEE COLUMN SCHEDULE FOR COLUMN BASE PLATE SIZE.



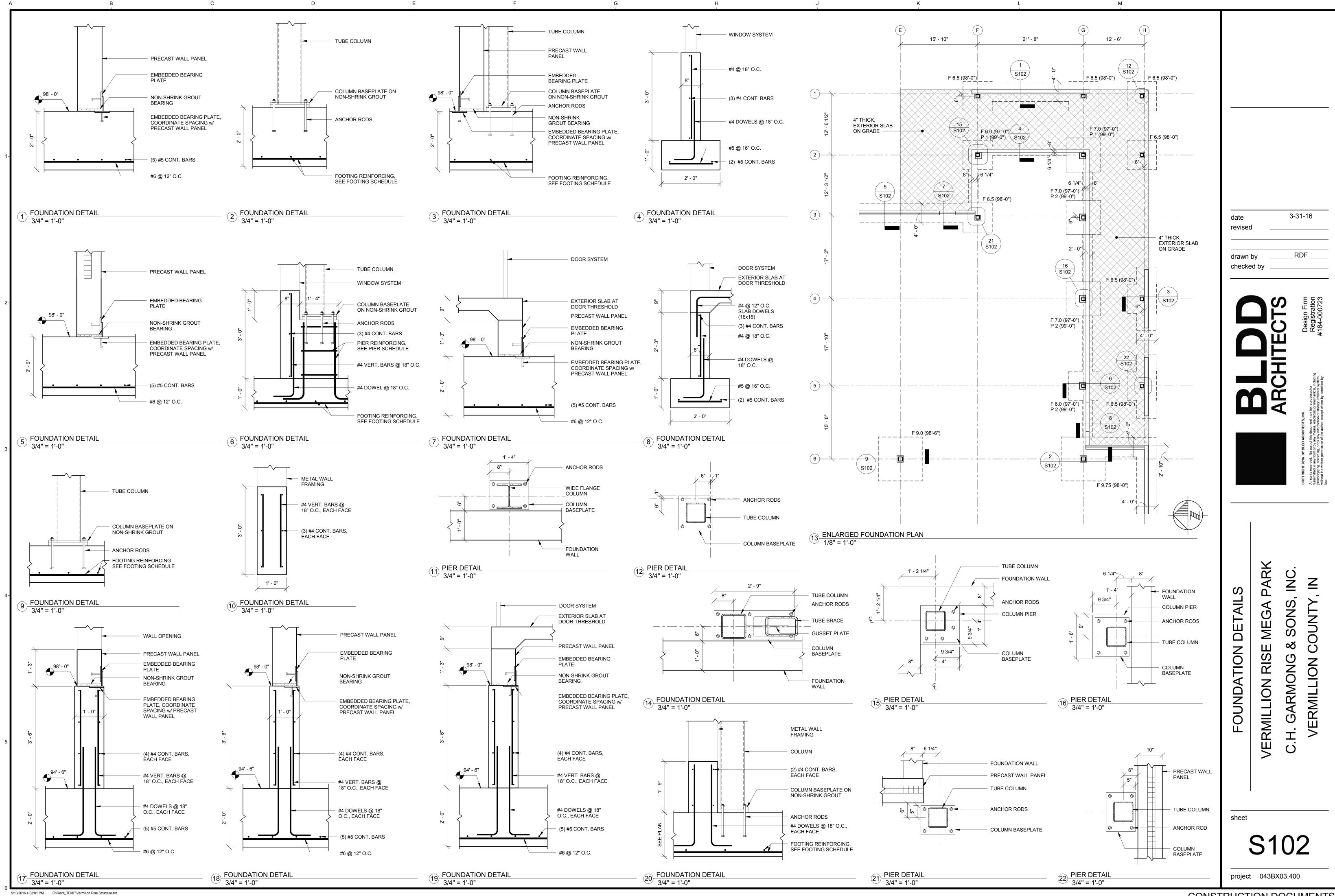


<u>TYPE 2</u>

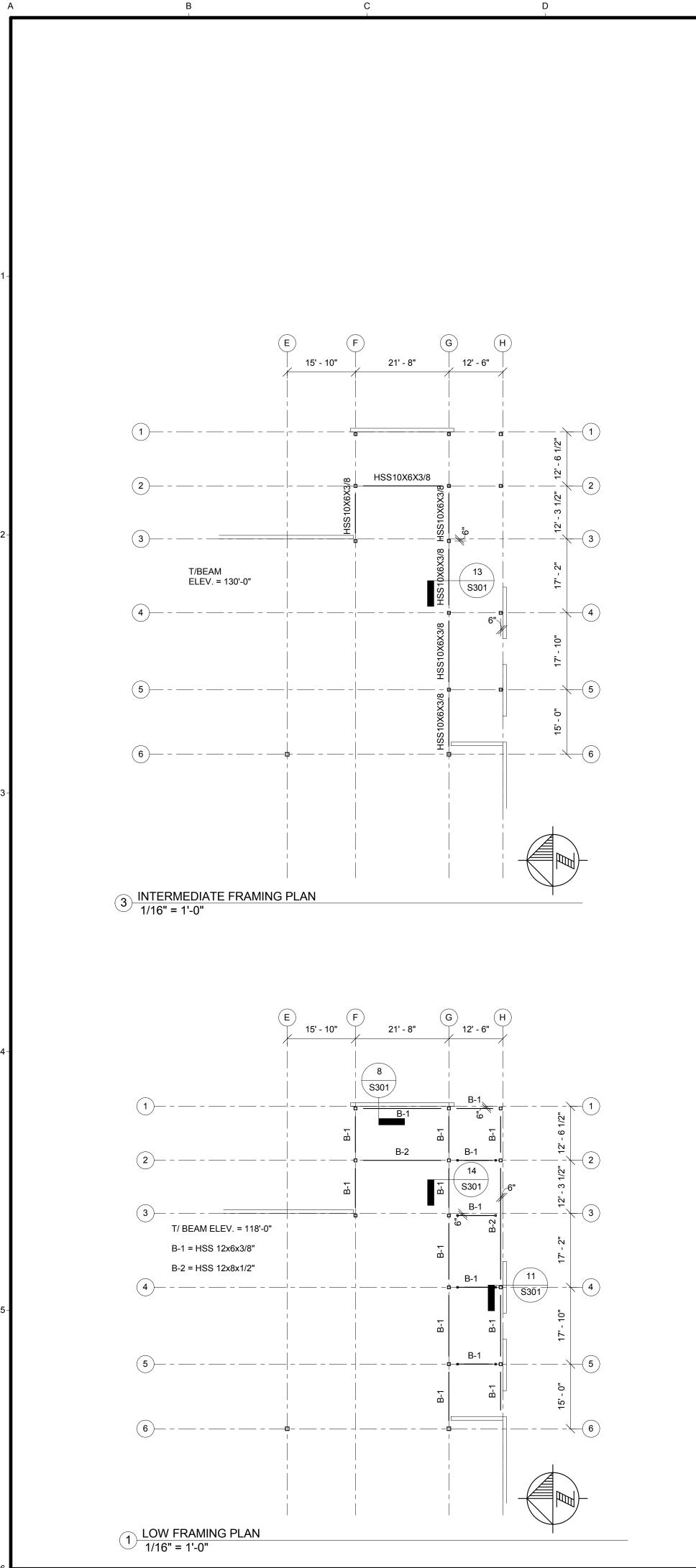




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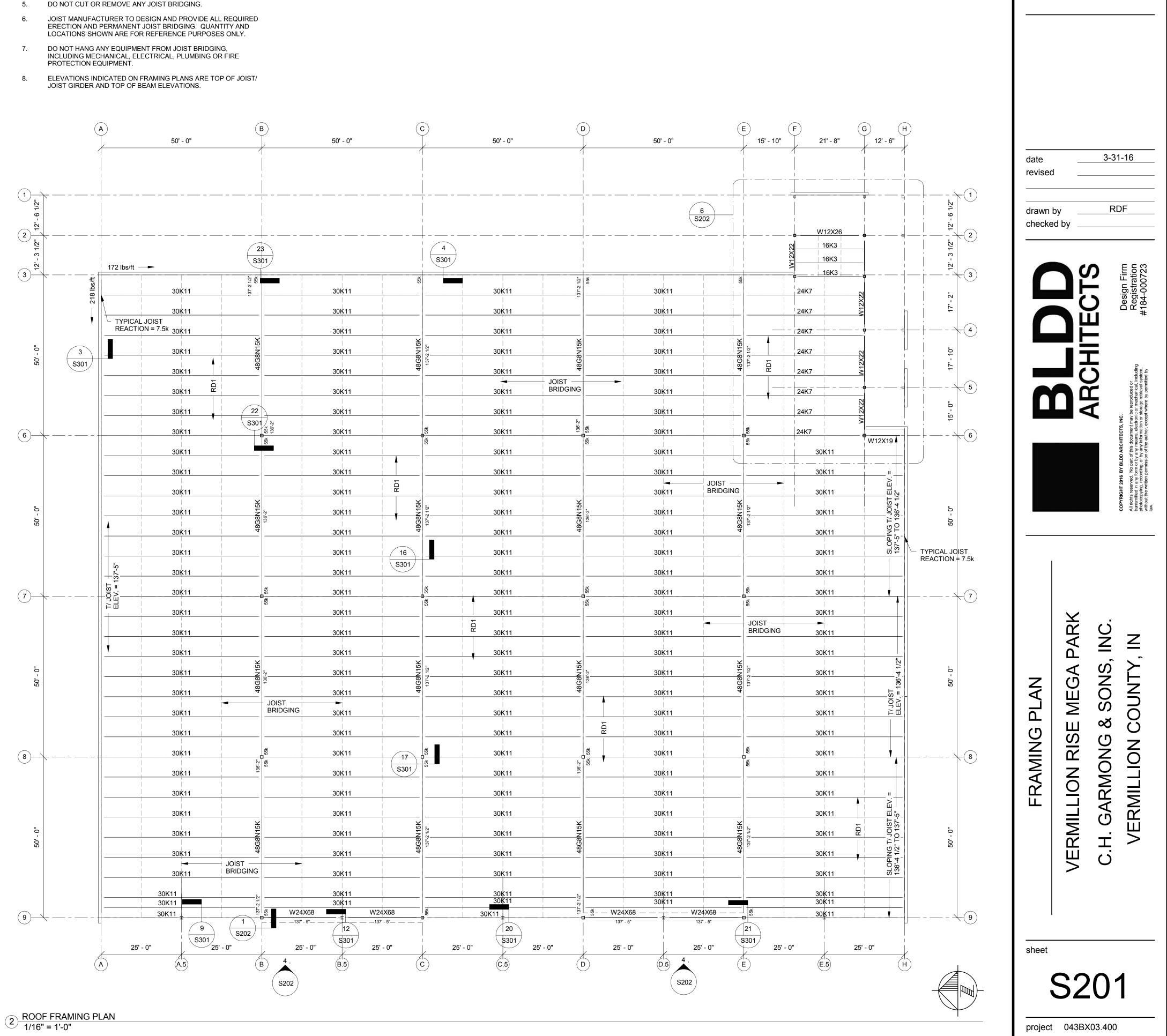


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RD1 INDICATES SPAN DIRECTION OF 1 1/2" METAL ROOF DECK, 1. 0.0358" MINIMUM MATERIAL THICKNESS.

- PROVIDE WELDS AT EACH FACE OF TUBE TO TUBE 2. CONNECTIONS.
- PROVIDE FRAMING DETAIL, 24/S301, AT ALL ROOF PENETRATIONS. 3.
- SPACE JOISTS EVENLY WITHIN BAYS, ALONG BEAMS OR AS 4.
- INDICATED ON FRAMING PLANS.
- DO NOT CUT OR REMOVE ANY JOIST BRIDGING.
- ERECTION AND PERMANENT JOIST BRIDGING. QUANTITY AND LOCATIONS SHOWN ARE FOR REFERENCE PURPOSES ONLY.
- PROTECTION EQUIPMENT.
- JOIST GIRDER AND TOP OF BEAM ELEVATIONS.

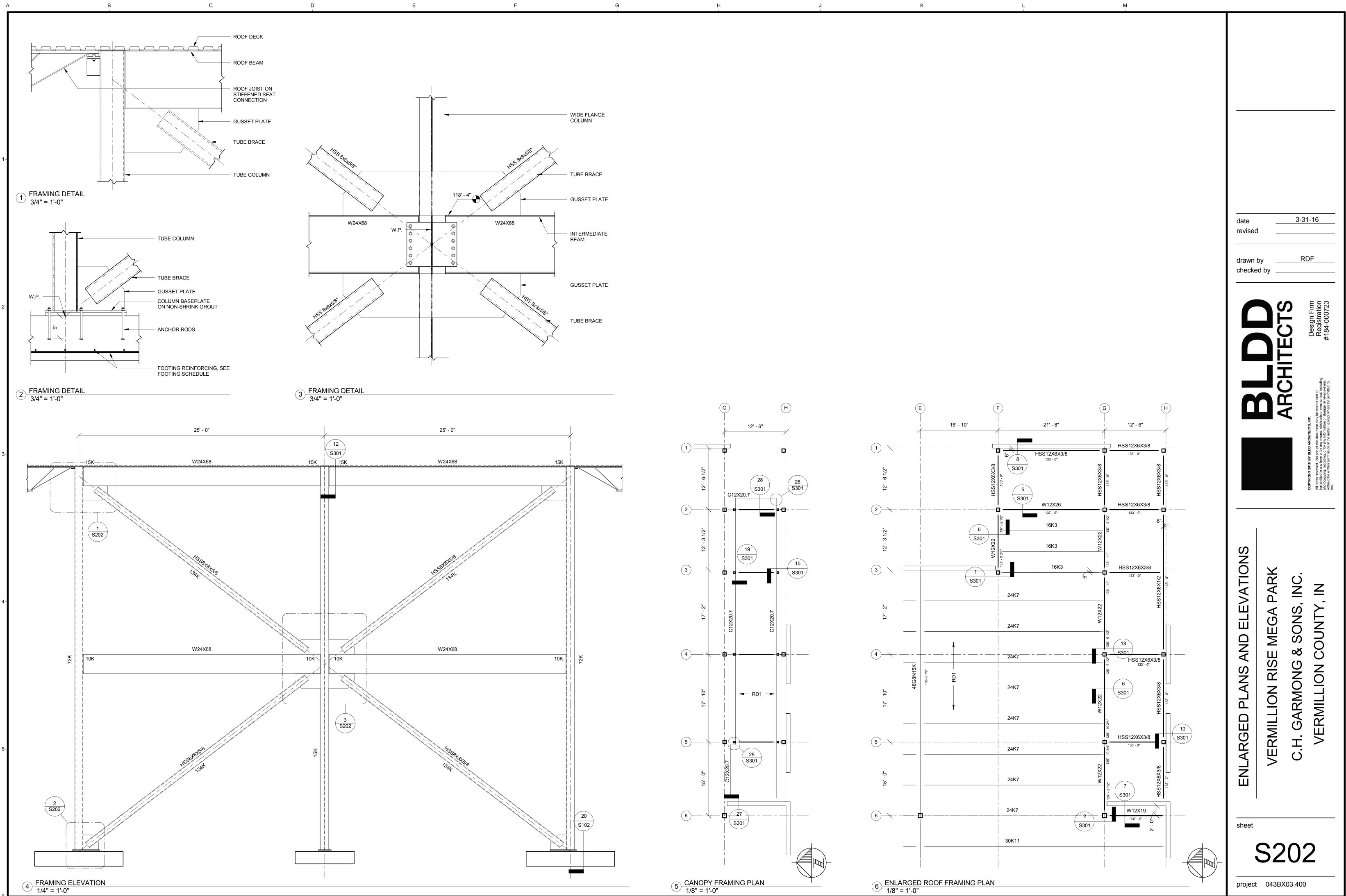


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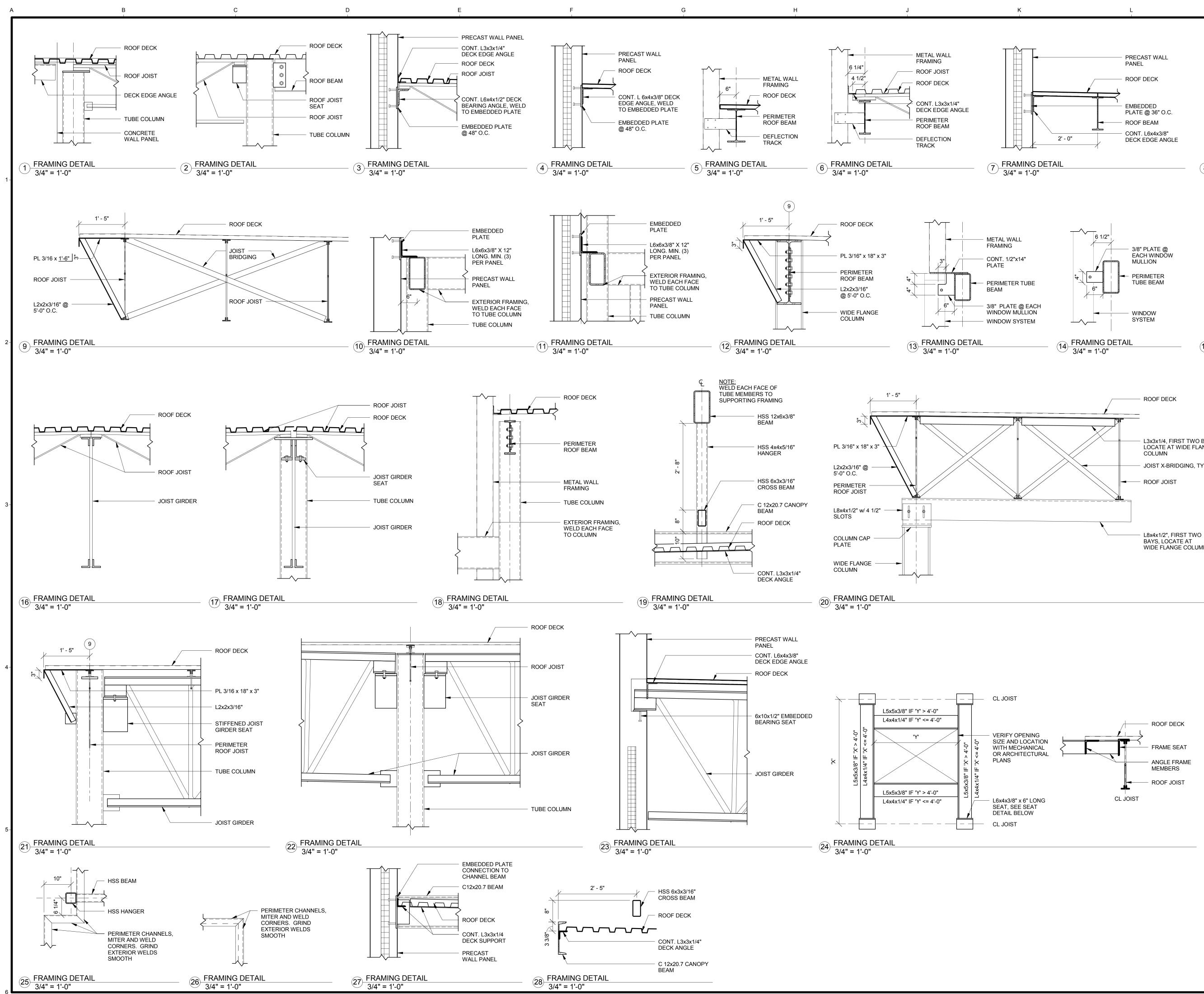
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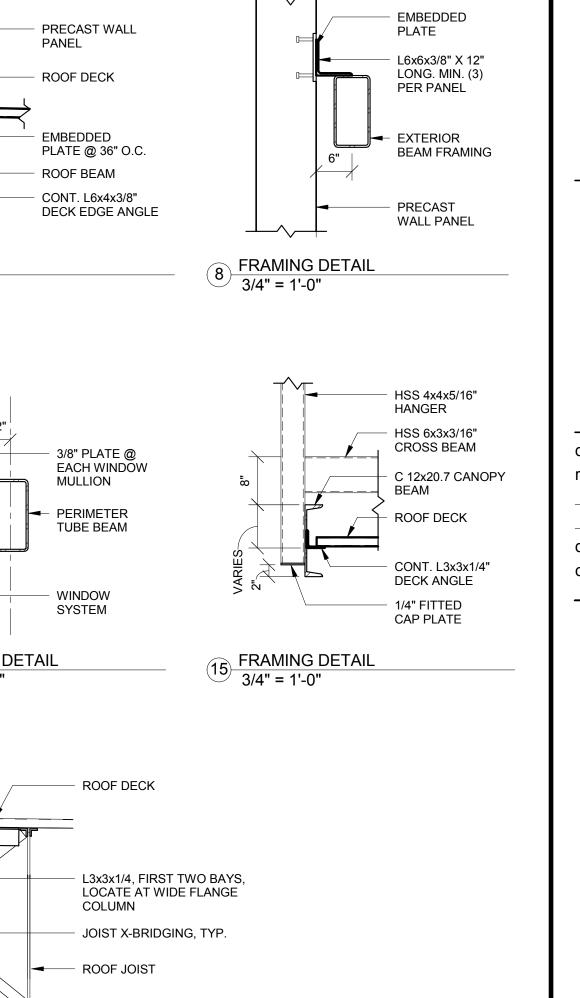
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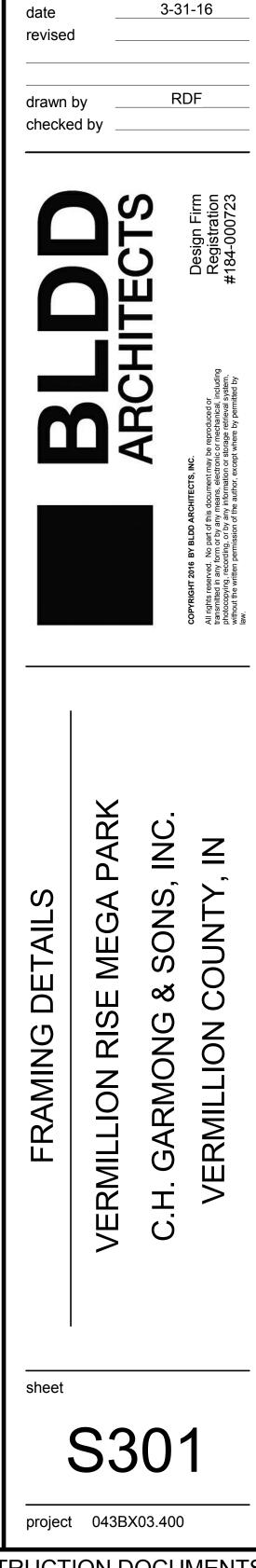
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BAYS, LOCATE AT WIDE FLANGE COLUMN



	1			2	
				Ζ	
				1	
	LIGHTING SYMBOLS LEGEND)			
SYMBOL	ITEMS	BACKBOX	MOUNTING HEIGHT		ELECTRICAL SY
A ₄o	2'x2' FLUORESCENT FIXTURE, SEE PLANS (A=FIXTURE TYPE, 4=CIRCUIT NUMBER, a=SWITCH CONTROL)	2G	CEILING	SYMBOL	
A 40	2'x4' FLUORESCENT FIXTURE, SEE PLANS (A=FIXTURE TYPE, 4=CIRCUIT NUMBER, a=SWITCH CONTROL)	2G	CEILING	HØ [#]	SPEED CONTROL SWITCH
A M	DIAGONAL LINE INDICATES THAT FIXTURE SHALL BE PROVIDED WITH TWO (2) BALLASTS TO ALLOW DUEL LEVEL SWITCHING. BALLAST (1) SHALL BE CONNECTED TO INSIDE LAMPS (α) AND BALLAST (2)	2G	CEILING	+D *	PUSH PAD CONTROL SWITCH, COORDINATE WITH OWNERS CONSULTANT
	SHALL BE CONNECTED TO OUTSIDE LAMPS (b) THUS PROVIDING SEPARATE SWITCH CONTROL.			Ю	PUSH BUTTON
	4=CIRCUIT NUMBER, NL=NIGHT LIGHT CIRCUIT, NON-SWITCHED CIRCUIT, UNO	2G	CEILING	Ū or Ю	JUNCTION BOX, CEILING, WALL
	INDICATES TWO (2) BALLASTS CONNECTED TO SEPARATE NORMAL POWER SWITCH CIRCUITS	2G	CEILING		ALL SYMBOLS INDICATED ON LEGEND
	HATCH PATTERN INDICATES FIXTURE SHALL BE CONNECTED TO CRITICAL BRANCH CIRCUIT	2G	CEILING	* FROM	INDICATED DEVICE, STUB UP $\frac{3}{4}$ " conduit above nearest accessibility
	INDICATES TWO (2) BALLASTS CONNECTED TO SEPARATE CRITICAL BRANCH SWITCH CIRCUITS	2G	CEILING	4	FIRE ALARM S
	INDICATES TWO (2) BALLASTS CONNECTED TO NORMAL AND CRITICAL BRANCH SWITCH CIRCUITS	2G	CEILING	SYMB0	DL ITEMS
	HATCH PATTERN INDICATES FIXTURE SHALL BE CONNECTED TO LIFE SAFETY BRANCH CIRCUIT	2G	CEILING		FIRE ALARM, CONTROL PANEL
	LIFE-SAFETY EMERGENCY SPLIT FIXTURE INSIDE LAMP(S) AND OUTSIDE LAMPS SWITCH SEPARATE	2G	CEILING		FIRE ALARM, PULL STATION
	INDICATES TWO (2) BALLASTS CONNECTED TO NORMAL AND LIFE SAFETY BRANCH SWITCH CIRCUITS	2G	CEILING		
	1'x4' FLUORESCENT FIXTURE, SEE PLANS	2G	CEILING		FIRE ALARM, VISUAL
· • •	4' STRIP FLUORESCENT FIXTURE	2G	CEILING		SMOKE DETECTOR
0	PENDANT MIUNTED FIXTURE, SEE PLANS FOR SIZE AND TYPE OF MOUNTING	2G	CEILING		HEAT DETECTOR
	TRACK LIGHTING	2G	CEILING		MAGNETIC DOOR HOLDER
] or Ю or D	WALL MOUNT FIXTURE, FLUORESCENT OR INCANDESCENT, SEE PLANS	2G	-	■ ⑤n	
O or □	INCANDESCENT FIXTURE, SEE PLANS	2G	CEILING		SMOKE DAMPER AND DUCT SMOKE DETECTOR
İ⊗‡or +⊗‡	CEILING OR WALL MOUNTED EXIT SIGN, ARROWS INDICATE DIRECTION	2G	-		DUCT ALARM INDICATOR FOR DUCT SMOKE DETECTOR
	EMERGENCY BATTERY PACK, SEE PLANS	2G	-		IAM DEVICE FOR A SPRINKLER FLOW SWITCH
or 📭	EMERGENCY BATTERY PACK W/HEADS, SEE PLANS	2G	7'-6" AFF, UNO		IAM DEVICE FOR A SPRINKLER FLOW SWITCH
l.	REMOTE HEADS, BATTERY OPERATED	2G	7'-6" AFF, UNO		I IAM
ф	SINGLE POLE LIGHT SWITCH	1G	48" AFF, UNO		DEVICE FIRE ALARM, END-of-LINE RESISTER
₩ 3or4	3-WAY OR 4-WAY SWITCHES	1G	48" AFF, UNO		
Ф	DIMMER SWITCH, SIZE PER PLANS	1G	48" AFF, UNO		ALL SYMBOLS INDICATED ON LEGEN
φa	LOWER CASE LETTER INDICATES WHICH LIGHT FIXTURE(S) ARE CONTROLLED BY SAME, UNO	1G	48" AFF, UNO	l	
F	SINGLE POLE SWITCH, K=KEY OPERATED, P=PILOT LIGHT	1G	48" AFF, UNO		POWER SYM
****		1G	48" AFF, UNO	SYMBO	DL ITEMS
??	DEVICE TAGS, WP=WEATHERPROOF, 2P=TWO POLE, WP/3=WEATHERPROOF/347 VOLT		,	₽	120V. DUPLEX RECEPTACLE
***** M _{??}	CEILING MOUNTED OCCUPANCY DETECTOR SWITCH, LINE-VOLTAGE, UNO, SIZE PER PLANS	1G	CEILING	₩	120V. DUPLEX RECEPTACLE
	DEVICE TAGS, WP=WEATHERPROOF, 2P=TWO POLE, WP/3=WEATHERPROOF/347 VOLT		ULLINU		120V. QUADRAPLEX RECEPTACLE
	CEILING MOUNTED OCCUPANCY DETECTOR SWITCH, LOW-VOLTAGE, 24 VOLT, UNO, SIZE PER PLANS	1G	CEILING		120V. QUADRAPLEX RECEPTACLE
<i>∽</i> ??	DEVICE TAGS, WP=WEATHERPROOF, 2P=TWO POLE, WP/3=WEATHERPROOF/347 VOLT				EMERGENCY RECEPTACLE, CIRCUITED TO EMERGENCY POWER, UN
R	NIGHT LIGHT SWITCH	1G	48" AFF, UNO	Ψ	120V. SINGLE RECEPTACLE, 18" AFF, UNO
	LIGHTING CONTROL CABINET - REFER TO TIMER/OFF/PHOTOCELL LIGHTING CONTROL DETAIL	N/A	-		DEVICE TAGS. GF=GROUND FAULT INTERRUPTING. WP=WEATHERPF
	ALL SYMBOLS INDICATED ON LEGEND MAY NOT BE UTILIZED ON DRA	AWINGS			LOCK=LOCKABLE, IG=ISOLATED GROUND, SP=SURGE PROTECTED, (TAMPER RESISTANT)
	<pre>DRSWITCH #WSD-W SERIES INFRARED WALLBOX OCCUPANCY SENSOR, WP=#WSD-W-LT, 2P=#WSD-2P-W, W BELL EQUIVALENT. (VERIFY COLOR TO MATCH OTHER DEVICES IN SAME AREA)</pre>	1P/3=#WSD-2P-	W-LT AND	•	RECEPTACLE, UPPER HALF OF OUTLET SWITCHED OR WIRED SPEA
***** SENSC)RSWITCH #CM-10-W SERIES INFRARED WALLBOX OCCUPANCY SENSOR, WP=#CM-10-W-LT, 2P=#CM-10-2	P-W, WP/3=#CN	1-10-2P-W-LT AND	Ð	RECEPTACLE, FLOOR MOUNTED, UNO (SIMILAR FOR OTHER DEVICE
COOPER/HUB	BELL/NEXLIGHT EQUIVALENT. PROVIDE 120/24V TRANSFORMERS AND ALL CONNECTIONS WHERE REQUIRED.				RECEPTACLE, CEILING MOUNTED, UNO (SIMILAR FOR OTHER DEVICES)
	BACKBOX LEGEND				GROUND JACK, SINGLE
SYMBOL	ITEMS				2P/3W/10 OUTLET WITH GROUND, AMPERAGE AND VOLTAGE PER
	4—11/16" SQUARE X 2—1/8"D TWO—GANG BACKBOX (STEEL CITY #72171) WITH SINGLE—GANG 3/4" RAI RING. (STEEL CITY #72—C—14)	ised extension			3P/3W/10 OUTLET WITH NEUTRAL, AMPERAGE AND VOLTAGE PER 3P/3W/30 OUTLET WITHOUT NEUTRAL, AMPERAGE AND VOLTAGE
2G	4-11/16" SQUARE X 2-1/8"D TWO-GANG BACKBOX (STEEL CITY #72171) WITH TWO-GANG 3/4" RAISE RING. (STEEL CITY #72-C-18)	d extension			3P/4W/3Ø OUTLET WITH NEUTRAL, AMPERAGE AND VOLTAGE PER
2G-A	6-13/16" X 4-1/2"H X 2-1/2"D TWO-GANG BACKBOX (STEEL CITY #H2BD) WITH TWO-GANG 3/4" RA RING AS REQUIRED.	ISED EXTENSION			ALL SYMBOLS INDICATED ON LEGEN
1G 3G	8-5/8" X 4-1/2"H X 2-1/2"D THREE-GANG BACKBOX (STEEL CITY #H3BD) WITH THREE-GANG 3/4"	Raised extensio	N		
-	RING AS REQUIRED.			1	

10-17/18" X 4-1/2"H X 2-1/2"D FOUR-GANG BACKBOX (STEEL CITY #H4BD) WITH FOUR-GANG 3/4" RAISED EXTENSION RING AS REQUIRED. BACKBOX EXTENSION RING AND COVERPLATE PROVIDED BY VENDOR AND INSTALLED BY CONTRACTOR.

N/A NOT APPLICABLE

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ALL SYMBOLS INDICATED ON LEGEND MAY NOT BE UTILIZED ON DRAWINGS

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SYMBOLS LEGEN	1D	
	BACKBOX	MOUNTING HEIGHT
	1G	48" AFF, UNO
	1G	48" AFF, UNO
	1G	48" AFF, UNO
	2G	18" AFF, UNO

D MAY NOT BE UTILIZED ON DRAWINGS

IBLE CEILING AND TO WITHIN 24" OF CABLE MANAGEMENT SYSTEM. U.N.O.

SYMBOLS LEGEND BACKBOX MOUNTING HEIGHT

	N/A	-
	1G	48" AFF, UNO
	2G	80" AFF, UNO
	2G	80" AFF, UNO
	2G	CEILING
	2G	CEILING
	2G	-
ON LEGEND MAY NOT BE UTILIZED ON DRA	AWINGS	

MBOLS LEGEND

	BACKBOX	MOUNTING HEIGHT
	1G	18" AFF, UNO
	1G	8" ABOVE COUNTER, UNO
	2G	18" AFF, UNO
	2G	8" ABOVE COUNTER, UNO
POWER, UNO	1G	18" AFF, UNO
	1G	CEILING
Weatherproof, Rotected, CP=CHILD Proof	1G	+48"=48" AFF
MRED SPEARATELY FROM BOTTOM HALF	1G	18" AFF, UNO
HER DEVICES)	1G	18" AFF, UNO
THER	1G	18" AFF, UNO
	1G	18" AFF, UNO
LTAGE PER PLANS	1G	18" AFF, UNO
DLTAGE PER PLANS	1G	18" AFF, UNO
) VOLTAGE PER PLANS	1G	18" AFF, UNO
DLTAGE PER PLANS	1G	18" AFF, UNO

END MAY NOT BE UTILIZED ON DRAWINGS

	ELECTRICAL SYMBOLS LEGEN	1D	
SYMBOL	ITEMS	BACKBOX	MOUNTING HEIGHT
Ø	MOTOR LOCATION, SIZED AS INDICATED	-	-
њ	MANUAL MOTOR STARTER, $P = PILOT LIGHT$	-	54" AFF, UNO
\boxtimes	MAGNETIC MOTOR STARTER	-	54" AFF, UNO
Ū	DISCONNECT SWITCH, SIZED AS INDICATED	-	54" AFF, UNO
В	COMBINATION STARTER, HEAT ELEMENTS/FUSING PER MOTOR RATING	-	54" AFF, UNO.
Τ	TRANSFORMER, SIZED PER PLANS	-	-
C	CONTACTOR, REFER TO PLANS	-	-
TM	TIMER, REFER TO PLANS	-	60" AFF, UNO
	ALL SYMBOLS INDICATED ON LEGEND MAY NOT BE UTILIZED ON DRA	AWINGS	

	CONDUIT SYMBOLS LEGEND	
YMBOL	ITEMS	SIZE
	CONDUIT CONCEALED IN CEILING OR WALL, WIRING PER CIRCUIT REQUIREMENTS	3/4", UNO
	CONDUIT CONCEALED IN FLOOR OR SLAB, WIRING PER CIRCUIT REQUIREMENTS	3/4", UNO
	CONDUIT EXPOSED, WIRING PER CIRCUIT REQUIREMENTS	3/4", UNO
A/1,3,5	CONDUIT RUN TO PANEL WITH CIRCUIT NUMBER(S) INDICATED, WIRING PER CIRCUIT REQUIREMENTS	N/A
\langle	FLEXIBLE CONDUIT WITH WIRING AS REQUIRED, UNO, WIRING PER CIRCUIT REQUIREMENTS	N/A
— —	CONDUIT UP	N/A
- &	CONDUIT DOWN	N/A
—PA—	PUBLIC ADDRESS CONDUIT SYSTEM, CABLING PER VENDOR'S REQUIREMENTS	3/4", UNO
—FA—	FIRE ALARM CONDUIT SYSTEM, CABLING PER VENDOR'S REQUIREMENTS	3/4", UNO
TV	TELEVISION CONDUIT SYSTEM, CABLING PER VENDOR'S REQUIREMENTS	3/4", UNO
— Е —	EMERGENCY CONDUIT SYSTEM, WIRING PER CIRCUIT REQUIREMENTS	3/4", UNO
— T —	TELEPHONE CONDUIT SYSTEM, CABLING PER VENDOR'S REQUIREMENTS	3/4", UNO
— c —	COMPUTER CONDUIT SYSTEM, CABLING PER VENDOR'S REQUIREMENTS	3/4", UNO
—LV—	LOW VOLTAGE CONDUIT SYSTEM, CABLING PER VENDOR'S REQUIREMENTS	3/4", UNO
—NC—	NURSE CALL CONDUIT SYSTEM, CABLING PER VENDOR'S REQUIREMENTS	3/4", UNO
—CL—	CLOCK CONDUIT SYSTEM, CABLING PER VENDOR'S REQUIREMENTS	3/4", UNO
— м —	MONITOR CONDUIT SYSTEM, CABLING PER VENDOR'S REQUIREMENTS	3/4", UNO
	ALL SYMBOLS INDICATED ON LEGEND MAY NOT BE UTILIZED ON DRAWINGS	

	TELE./DATA SYMBOLS LEGEN	١D	
YMBOL	ITEMS	BACKBOX	MOUNTING HEIGHT
◄ [₩] **	WALL TELEPHONE, VOICE OUTLET	1G	48"AFF, UNO
◄ ² **	TELEPHONE, VOICE OUTLET, NUMBER=NUMBER OF DROPS, BLANK=1 DROP	1G	18" AFF, UNO
∢ ² **	TELEPHONE, VOICE OUTLET, NUMBER=NUMBER OF DROPS, BLANK=1 DROP	1G	8" AC, UNO
⊲²**	COMPUTER, DATA OUTLET, NUMBER=NUMBER OF DROPS, BLANK=1 DROP	1G	18" AFF, UNO
\\$\ \$**	COMPUTER, DATA OUTLET, NUMBER=NUMBER OF DROPS, BLANK=1 DROP	1G	8" A, UNO
₹ ^{2/1} **	TELEPHONE/COMPUTER, VOICE/DATA OUTLET, NO. OF TELEPHONE/ NO. OF DATA	2G	18" AFF, UNO
₹ ^{2/1}	TELEPHONE/COMPUTER, VOICE/DATA OUTLET, NO. OF TELEPHONE/ NO. OF DATA	2G	8" AC, UNO
▲ **	TELEVISION OUTLET	1G	18" AFF, UNO
♦ **	DICTATION STATION	1G	18" AFF, UNO
**	COMMUNICATIONS DEVICE IN CEILING, UNO	1G	CEILING
◀ **	COMMUNICATIONS DEVICE IN FLOOR, UNO	1G	CEILING
(TELE)	<u>TELECOMMUNICATIONS SYSTEMS BACKBOARD</u> – PROVIDE 4'-0"H x 3/4"D FIRE RETARDENT PLYWOOD BACKBOARD WITH A 6 AWG GROUND CONNECTED TO BUILDING MAIN SERVICE ENTRANCE GROUNDING POINT. (COIL UP 6'-0" OF CONDUCTOR AT COMMUNICATIONS BOARD FOR VENDORS USE). LENGTH OF BOARD SHALL BE AS INDICATED ON DRAWINGS. PROVIDE A TVSS/SPD QUADRAPLEX RECEPTACLE MOUNTED ON BOARD. FIELD VERIFY PREFERRED MOUNTING LOCATION WITH OWNERS TELECOMMUNICATIONS SYSTEMS VENDOR PRIOR TO INSTALLATION.	N/A	_

** FROM INDICATED DEVICE, STUB UP 1" CONDUIT ABOVE NEAREST ACCESSIBLE CEILING AND TO WITHIN 24" OF CABLE MANAGEMENT SYSTEM. U.N.O.

ALL SYMBOLS INDICATED ON LEGEND MAY NOT BE UTILIZED ON DRAWINGS

INSTALLATION OF CONDUIT.

9. PROVIDE PULL STRINGS IN ALL EMPTY CONDUITS.

FIRE-RATED WALLS. SYSTEMS.

INDICATED TO BE EXPOSED.

19. DO NOT SCALE DRAWINGS.

3

GENERAL PROJECT NOTES:

1. CONTRACTOR SHALL FOLLOW SEISMIC RESTRAINT AND DESIGN REQUIREMENTS CONTAINED IN CHAPTER 16 OF 2000 INTERNATIONAL BUILDING CODE, THIRD PRINTING, ADOPTED AS INDIANA BUILDING CODE, 2003 EDITION WITH INDIANA AMENDMENTS.

2. ALL DIMENSIONS ARE TO CENTER LINE OF DEVICE UNLESS NOTED OTHERWISE. 3. FIELD VERIFY EXACT LOCATION OF ALL ELECTRICAL DISTRIBUTION EQUIPMENT PRIOR TO

4. OUTLET BOXES SHALL NOT BE INSTALLED BACK TO BACK IN WALLS. WHERE OUTLETS ARE LOCATED APPROXIMATELY BACK-TO-BACK ON OPPOSITE SIDES OF ADJACENT WALLS, OUTLETS SHALL BE SEPARATED BY A MINIMUM OF ONE STUD UNLESS OTHERWISE APPROVED.

5. PROVIDE A #12 AWG (MINIMUM) GREEN EQUIPMENT GROUND IN ALL FEEDER AND BRANCH CIRCUIT CONDUITS, UNO. GROUND CONDUCTORS SHALL BE SIZED PER NEC (NFPA-70).

6. PROVIDE U.L. LISTED FIRE STOP ASSEMBLY IN ALL PENETRATIONS THROUGH FIRE WALLS/CEILINGS AND SMOKE WALLS/CEILINGS. WHERE FIRE RATED CEILING ASSEMBLIES ARE INDICATED, PROVIDE RATED AND APPROVED GYPSUM BOARD ENCLOSURES TO MAINTAIN CEILING RATINGS.

7. COORDINATE ALL FIRE ALARM WORK WITH FIRE ALARM SYSTEM AND SPRINKLER VENDOR REPRESENTATIVES BEFORE SUBMITTING BIDS AND PROVIDE A COMPLETE AND FULLY CONDUITED SYSTEM. PAINT ALL JUNCTION BOX COVERS RED AND PROVIDE ALL FIRE ALARM WIRING IN RED CONDUIT MANUFACTURED BY ALLIED TUBE AND CONDUIT.

8. COORDINATE EXACT DEVICE LOCATIONS WITH ARCHITECTURAL CASEWORK ELEVATIONS.

10. PROVIDE END BUSHINGS ON ALL CONDUIT STUB-OUTS.

11. PROVIDE ACCESS PANELS PER NEC (NFPA-70).

12. PANELBOARD TUBS AND OTHER FLUSH MOUNTED EQUIPMENT ARE NOT TO BE RECESSED IN

13. ISOLATE VIBRATING, OSCILLATING, NOISE AND MOTION PRODUCING EQUIPMENT FROM SURROUNDING

14. SUPPORT EQUIPMENT, DEVICES AND FIXTURES FROM THE BUILDING STRUCTURE.

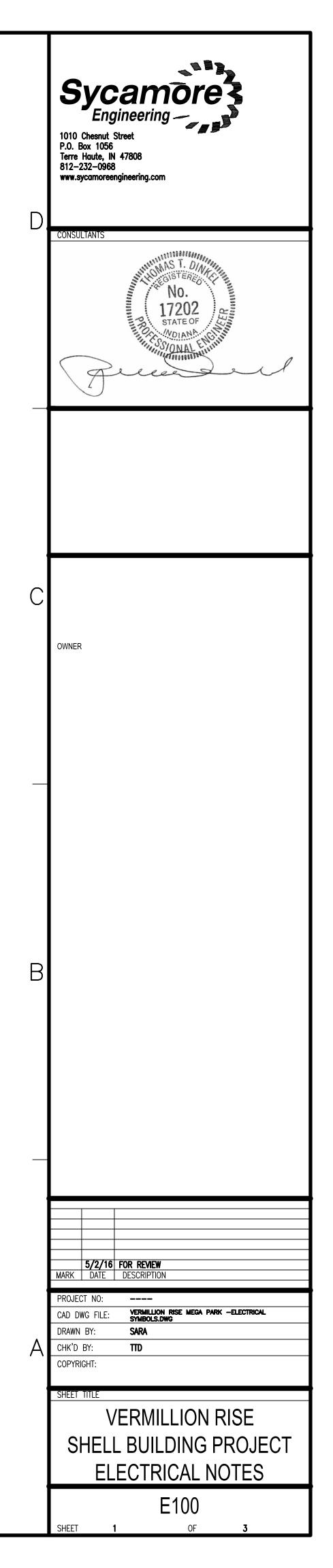
15. EXIT SIGNS, EMERGENCY BATTERY PACKS AND INVERTORS SHALL BE CONNECTED TO AN UNSWITCHED PHASE CONDUCTOR. INVERTORS INSTALLED IN LIGHT FIXTURES SHALL BE CONNECTED TO THE SAME CIRCUIT SUPPLYING POWER TO THE FIXTURE BUT SHALL NOT BE SWITCHED.

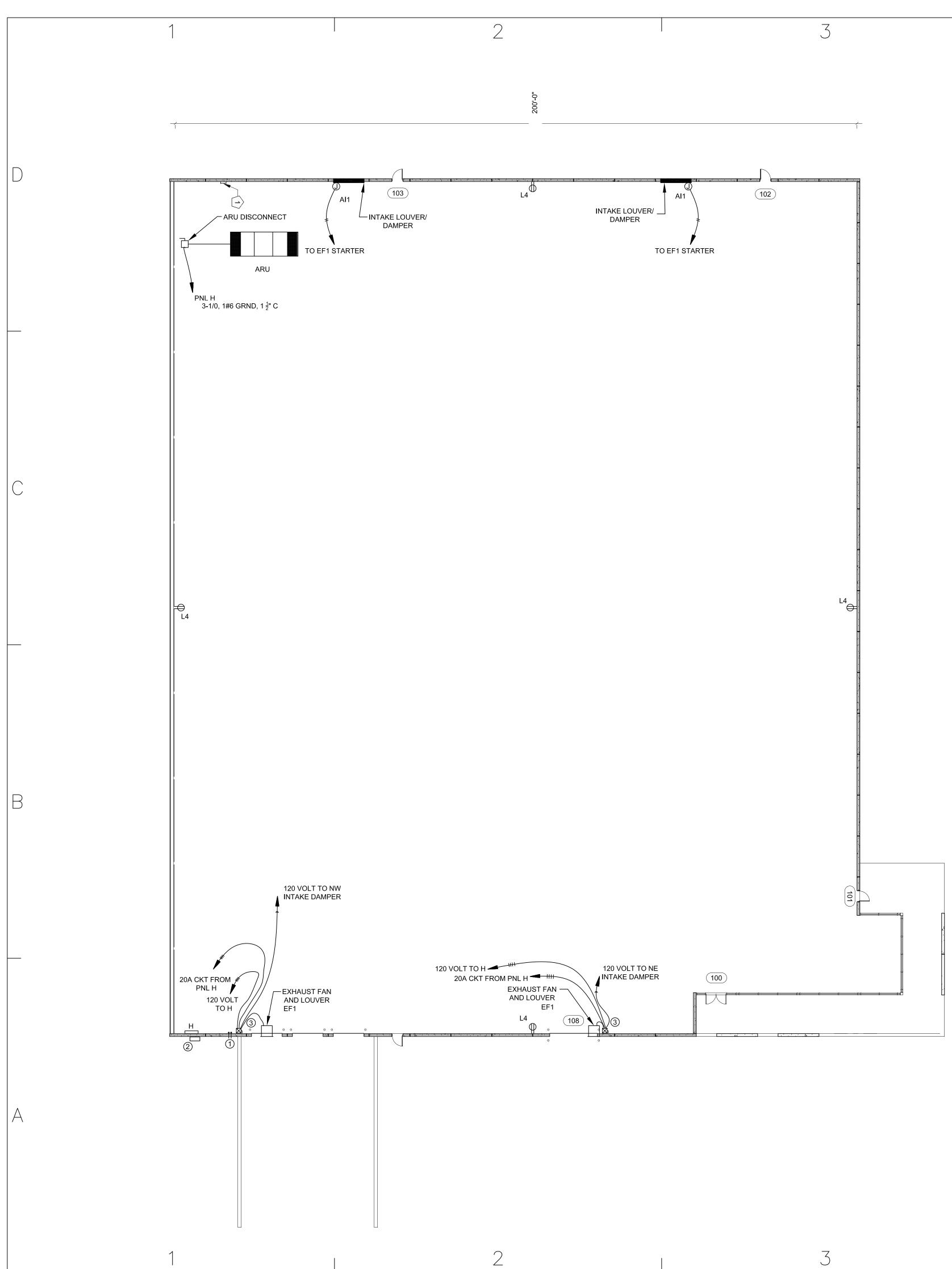
16. LOCATE LIGHT FIXTURES IN MECHANICAL ROOMS TO AVOID DUCTWORK AND PIPING WHILE MAXIMIZING AVAILABLE LIGHT. SPACE LIGHT FIXTURES AROUND EQUIPMENT TO PROVIDE ADEQUATE LIGHTING TO ALL AREAS OF THE ROOM. 17. ALL RACEWAY RUNS AND ASSOCIATED PULL BOXES SHALL BE CONCEALED UNLESS SPECIFICALLY

18. MARK CIRCUIT DESIGNATIONS ON JUNCTION BOX COVERPLATES USING BLACK INDELIBLE MARKER OR PAINT.

20. ALL CONDUITS SHALL CONTAIN THREE (3) BRANCH CIRCUITS MAXIMUM. ADDITIONAL BRANCH CIRCUITS MAY BE ADDED TO CONDUITS PROVIDED THAT ONE NEUTRAL CONDUCTOR IS ADDED FOR EVERY THREE (3) ADDITIONAL PHASE CONDUCTORS, PROVIDE A DEDICATED NEUTRAL FOR ALL QUADRAPLEX RECEPTACLES. IN ADDITION, ALL PHASE CONDUCTORS MUST BE DERATED PER N.E.C. SECTION #310 UNDER "NOTES TO AMPACITY TABLES" #8 (a), AND CONDUIT MUST BE UPSIZED PER N.E.C. APPENDIX #C - TABLE #C1 IF REQUIRED.

21. NORMAL AND ESSENTIAL BRANCH-CIRCUIT PANELBOARDS SERVING THE SAME INDIVIDUAL PATIENT VICINITY SHALL HAVE THEIR EQUIPMENT GROUNDING TERMINAL BUSES BONDED TOGETHER WITH AN INSULATED CONTINUOUS COPPER CONDUCTOR NOT SMALLER THAN 10 AWG IN ACCORDANCE WITH ARTICLE 517.14 OF THE NEC (NFPA-70).

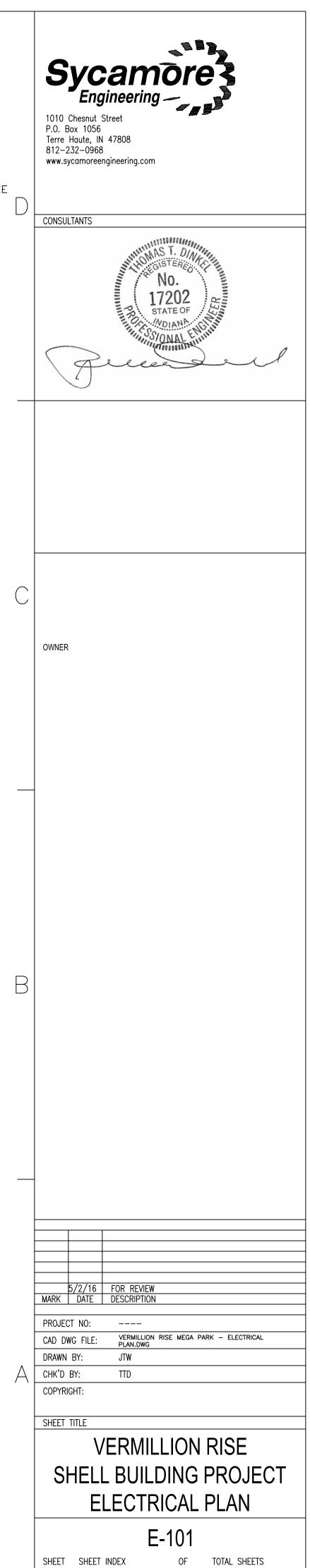




4

ELECTRICAL NOTES:

- 1. (2) 4″ CONDUIT SLEEVES FOR FUTURE PHONE AND DATA
- 2. ELECTRIC METER LOCATION, COORDINATE w/DUKE ENERGY
- 3. SIZE 1 COMBINATION MOTOR STARTER, PROVIDE AUXILIARY RELAY WITHIN MOTOR STARTER TO INTERLOCK THE 120 VOLT CORRESPONDING INTAKE DAMPERS.
- 4. 225 AMP 120/208 3 PHASE MB 42 CKT PANEL w/1-150 3P, 4-20A-2P, 4-20A-1P, 27 SPACES



DUKE ENERGY

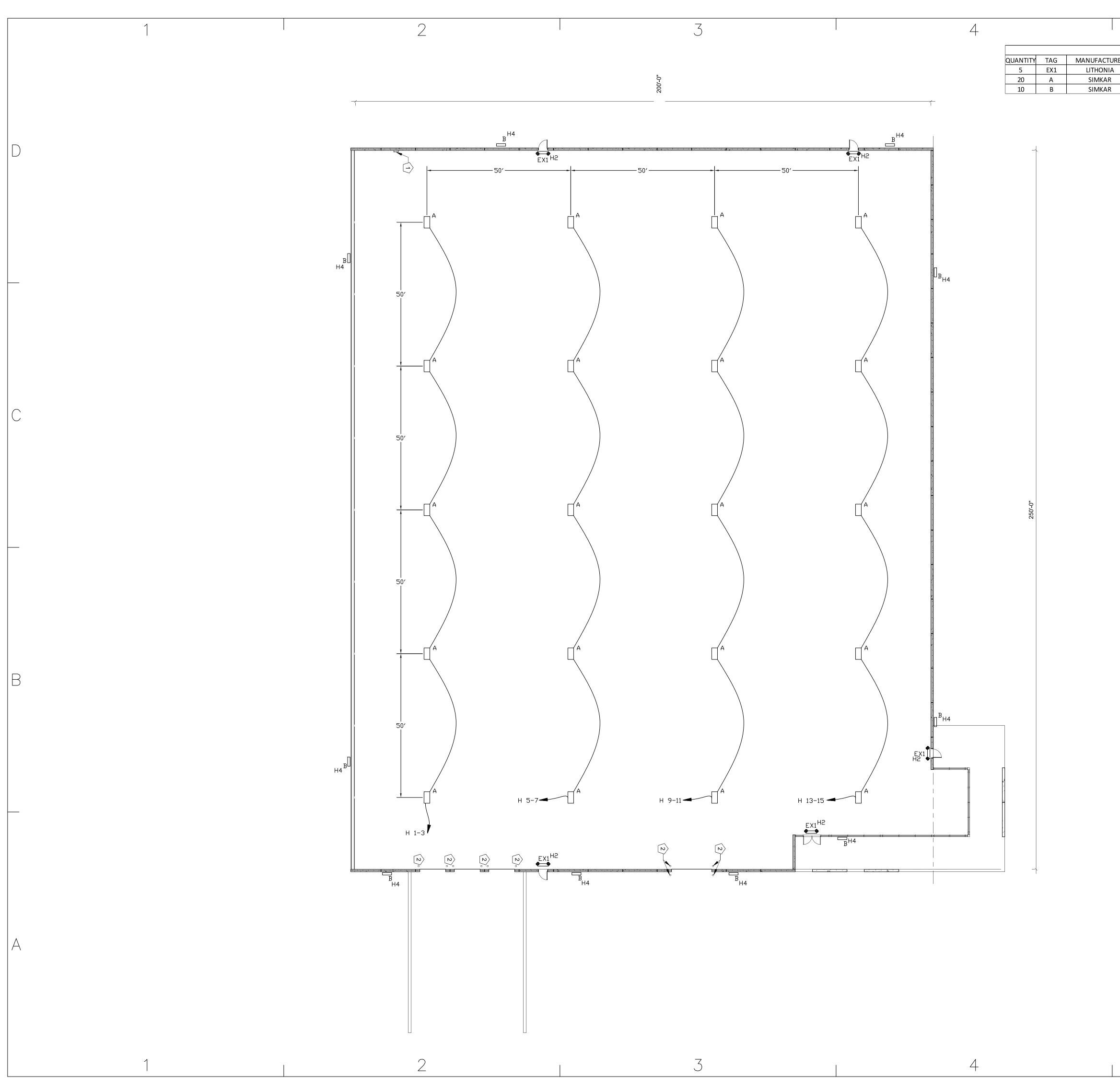
225 AMP

120/208

PANEL H

4

NORTH



	LIGHTING SCHEDULE	
URER	MODEL #	DESCRIPTION
А	ECR LED M6	RED EMERGENCY EXIT LIGHT
R	RG2454RHE4LU1850KOC4-CA2	RG2 SERIES T5HO w/OCC
R	LPLW8040U11B	LEDPRO LARGE WALLPACK

LHT C CK	CONSULTANTS
	Acces
С	OWNER
В	
NORTH J	International Street International Street S

5

1. 2×4 HIGHBAY FLOURESENT FIXTURES, LIGHTS TO BE CONTROLLED AT BREAKER

2. EXTERIOR WALL PACKS TIED TO PHOTOCELL

LIGHTING NOTES:

SYMBO		2	3	4
	SYMBOLS		SYMBOLS	
			DOUBLE SINGLE	
	CONNECT NEW TO EXISTING	EQUIPMENT		GEN
	TERMINATION POINT OF DEMOLITION	PUMP (GENERIC)		1.
-	CONNECT TO MANUFACTURER'S PREPIPED CONNECTION	SPLIT CASE PUMP	ACCESS DOOR (BOTTOM OF SIDE)	
	PREPURCHASED EQUIPMENT	END SUCTION PUMP	ACOUSTICALLY LINED DUCT	2.
	DRAWING NOTE DESIGNATION		FD FIRE DAMPER	
		EXISTING TO REMAIN (SERVICE AS INDICATED)	SD SMOKE DAMPER	3.
	REFER TO DETAIL OR SECTION NUMBER	EXISTING TO BE REMOVED	FSD FSD COMBINATION FIRE/SMOKE DAMPER	
RE	: 01/M1.1		VOLUME DAMPER (MOTORIZED)	4.
	SHEET NUMBER	NEW (SERVICE AS INDICATED)	VOLUME DAMPER (MANUAL)	
			LZ L LINED DROP IN DIRECTION OF ARROW	
DUCTWOR	<u>RK SYMBOLS</u>	<u>PIPING SYMBOLS</u> EXISTING PIPING TO REMAIN (SERVICE AS INDICATED)		5.
	RETURN AIR DUCT	EXISTING PIPING TO BE REMOVED (SERVICE AS INDICATED		6.
\geq			TRANSITION, RECTANGULAR TO ROUND	
			FLEXIBLE DUCT	7.
			IN-LINE FAN	8.
() or	R $ otin P = P = P = P = P = P = P = P = P = P $			
\in	- OVAL DUCT DIAMETER	TEE IN PIPE DROPPING DOWN	TRANSITION, RECTANGULAR	9.
$\langle X \rangle$	XX DIFFUSER OR GRILLE TAG: XXX ''X"=TYPE, ''XX'' = DUCT CONNECTION, ''XXX'' = CFM	DIRECTION OF FLOW	권 구국 SPIN-IN COLLAR INTO ADAPTER ON TOP OF D WITH DAMPER	UCT
			CEILING SUPPLY AIR DIFFUSER	10.
	SINGLE DUCT HVAC TERMINAL UNIT	ECCENTRIC REDUCER		
(-	T) THERMOSTAT	GATE VALVE	SIDEWALL SUPPLY AIR DIFFUSER	
(F		GLOBE VALVE	Land Land Land Land Land Land Land Land	11.
ر ۲-		→ T N BUTTERFLY VALVE → ▼ PLUG VALVE		
	TEMPERATURE SENSOR	→ A → VALVE IN PIPE	ELBOW TURNED DOWN	12.
ŀ	HUMIDITY SENSOR	——戊—— CONTROL VALVE (2–WAY)	ELBOW TURNED UP	
	S SMOKE DETECTOR	ーズ CONTROL VALVE (3-WAY)	ELBOW, RADIUS TYPE (ROUND OR RECTANGULA	AR)
\langle	INTERLOCK LOGIC INDICATOR	SAFETT RELIEF VALVE ↓ TEMPERATURE AND PRESSURE RELIEF VALVE		13.
7	CURRENT TO PNEUMATIC TRANSDUCER	CIRCUIT BALANCING VALVE (CIRCUIT SETTER)	ELBOW, SQUARE OR RECTANGULAR TYPE	14.
L.			RETURN OR EXHAUST AIR DUCT	14.
	CONTROLS TAGS AND INDENTIFIERS		CEILING RETURN AIR REGISTER	15.
(x	DISCRETE FIELD MOUNTED INSTRUMENTS	BOILER STOP AND CHECK	SIDEWALL RETURN AIR REGISTER	
_		PRESSURE REGULATOR, PRESSURE REDUCING	RETURN AIR SLOT DIFFUSER	16.
X	DIRECT DIGITAL CONTROLS ELEMENT	→ <mark>VB</mark> VACUUM BREAKER → STEAM TRAP		17.
С	CONDUCTIVITY INDICATOR		OPEN ENDED DUCT	
С				
	CO CARBON DIOXIDE SENSOR PI DIFFERENTIAL PRESSURE INDICATOR	——————————————————————————————————————	FLEXIBLE CONNECTION	
	PT DIFFERENTIAL PRESSURE TRANSMITTER	EXPANSION JOINT	DUCT MOUNTED HEATING COIL	
F	T FLOW TRANSMITTER	FLEXIBLE CONNECTION		
Н		FLOW METER	DUCT EXTRACTOR	
H	IT HUMIDITY TRANSMITTER IIS HAND INDICATOR AND SWITCH	M WATER METER R GAS REGULATOR		
L		VENTURI METER	RECTANGULAR BRANCH TAKE-OFF	
L		FLOW SWITCH		
L	SH LEVEL SENSOR HIGH SL LEVEL SENSOR LOW	THERMOMETER	ROUND BRANCH TAKE-OFF FROM RECTANGULAR MAIN WITH CONICAL TAP	
L		MANUAL AIR VENT		
Ρ	PRESSURE INDICATOR	Δ^{AV} automatic air vent (extend discharge to drain)	AND FLEX DUCT (DIFFUSER CONNECTION)	
P				
T T	C TEMPERATURE CONTROLLER 1 TEMPERATURE INDICATOR		EXISTING DUCT TO BE REMOVED	
T	T TEMPERATURE TRANSMITTER			

2

5

AL NOTES

IT SHALL BE INSTALLED IN STRICT COMPLIANCE WITH THE MANUFACTURER'S INSTRUCTIONS. PROVIDE HANGERS AND SUPPORTS REQUIRED FOR COMPLETE TION.

ONDUIT, CABLES, DUCTWORK OR PIPING PASSES THROUGH FIRE RATED FLOORS OR LEEVES SHALL BE COMPLETELY SEALED WITH FIRE STOP MATERIAL THAT IS UL MAINTAIN THE FIRE RATING OF THE PENETRATED WALL OR FLOOR.

PROVAL CODES HAVE BEEN ESTABLISHED BY OSHA, UNDERWRITERS LABORATORY, N CODES, INTERNATIONAL CODES, ANSI, ASME, ASA, ASHRAE, ASTM, ARI, NEC, IACNA, OR THE STATE FIRE INSURANCE REGULATORY BODY, THE CONTRACTOR DLLOW THESE STANDARDS WHETHER INDICATED OR NOT ON THE DRAWINGS.

ATE WORK WITH OTHER BUILDING FEATURES AND AVOID INTERFERENCES WITH UCTWORK, EQUIPMENT, PLUMBING, AND MECHANICAL COMPONENTS. REFER TO ALL ITS PERTAINING TO THE PROJECT FOR COORDINATION WITH OTHER TRADES RE ADEQUACY OF FIT, COMPLIANCE WITH SPECIFICATIONS, PROPER ELECTRICAL ERISTICS, AND PROPER SERVICE CLEARANCES.

K SIZES SHOWN ARE FREE AIRSTREAM DIMENSIONS. TURNING VANES SHALL BE IN ALL SUPPLY, RETURN, AND EXHAUST DUCTWORK ELBOWS, EXCEPT WHERE RADIUS ELBOWS ARE INDICATED.

ETS, TURNS, FITTINGS, TRIM, DETAILS, AND ACCESSORIES MAY NOT BE INDICATED, LL BE PROVIDED AS REQUIRED TO COMPLETE INSTALLATION.

VOLUME DAMPERS ON ALL LOW PRESSURE BRANCHES AND TAKE-OFFS WHETHER E INDICATED OR NOT ON THE DRAWINGS.

CUTTING AND PATCHING FOR MECHANICAL WORK. PATCHING SHALL MATCH SURFACES AND SHALL BE CONSISTENT WITH THE OWNER'S STANDARDS FOR T FINISHES.

ENETRATING ROOFING MEMBRANE OR OTHER MATERIALS USED FOR PROOFING THE BUILDING, MAKE SUCH PENETRATIONS IN A WAY THAT WILL NOT DIMINISH THE ROOFING WARRANTY OR COMPROMISE THE INTEGRITY IN ANY WAY. ATE PENETRATIONS WITH ROOFING INSTALLER BEFORE PROCEEDING WITH WORK.

ATE THE LOCATION OF DRAINS, ELECTRICAL OUTLETS, AND ELECTRICAL PANELS IN MECHANICAL ROOMS WITH MECHANICAL EQUIPMENT PRIOR TO INSTALLATION. DT COORDINATED SHALL BE REMOVED AND PROPERLY INSTALLED AT MECHANICAL TOR'S EXPENSE.

G, OSCILLATING AND OTHER NOISE PRODUCING EQUIPMENT SHALL BE ISOLATED STEMS AND SURROUNDING STRUCTURE IN AN APPROVED MANNER. NOISY OR RALLY DAMAGING INSTALLATIONS SHALL BE REPLACED OR REPAIRED AT CAL CONTRACTOR'S EXPENSE. FINAL APPROVAL OF THE INSTALLATION SHALL BE THE ENGINEER.

NS IN SIZE, CAPACITY, FIT, AND FINISH OF EQUIPMENT FROM THAT SPECIFIED MAY REQUIRE ALTERATIONS OF THE DESIGN. DESIGN CHANGES OR CONSTRUCTION INS REQUIRED TO ACCOMMODATE ALTERNATIVE EQUIPMENT SELECTIONS WILL BE THE SIBILITY OF THE PURCHASER, FURTHERMORE ANY DEVIATIONS MUST BE APPROVED ENGINEER.

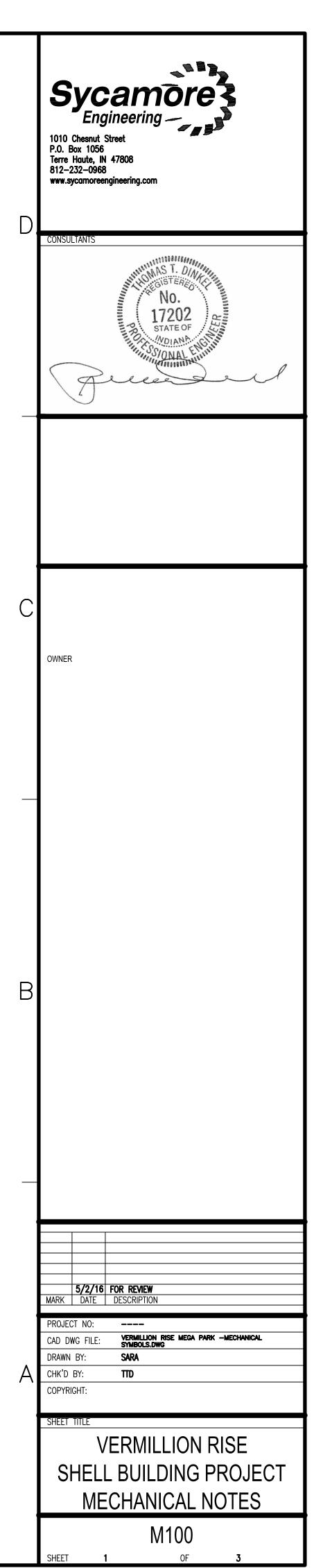
CONCRETE PLACEMENT, COORDINATE AND PROVIDE FOR SLAB PENETRATIONS AND

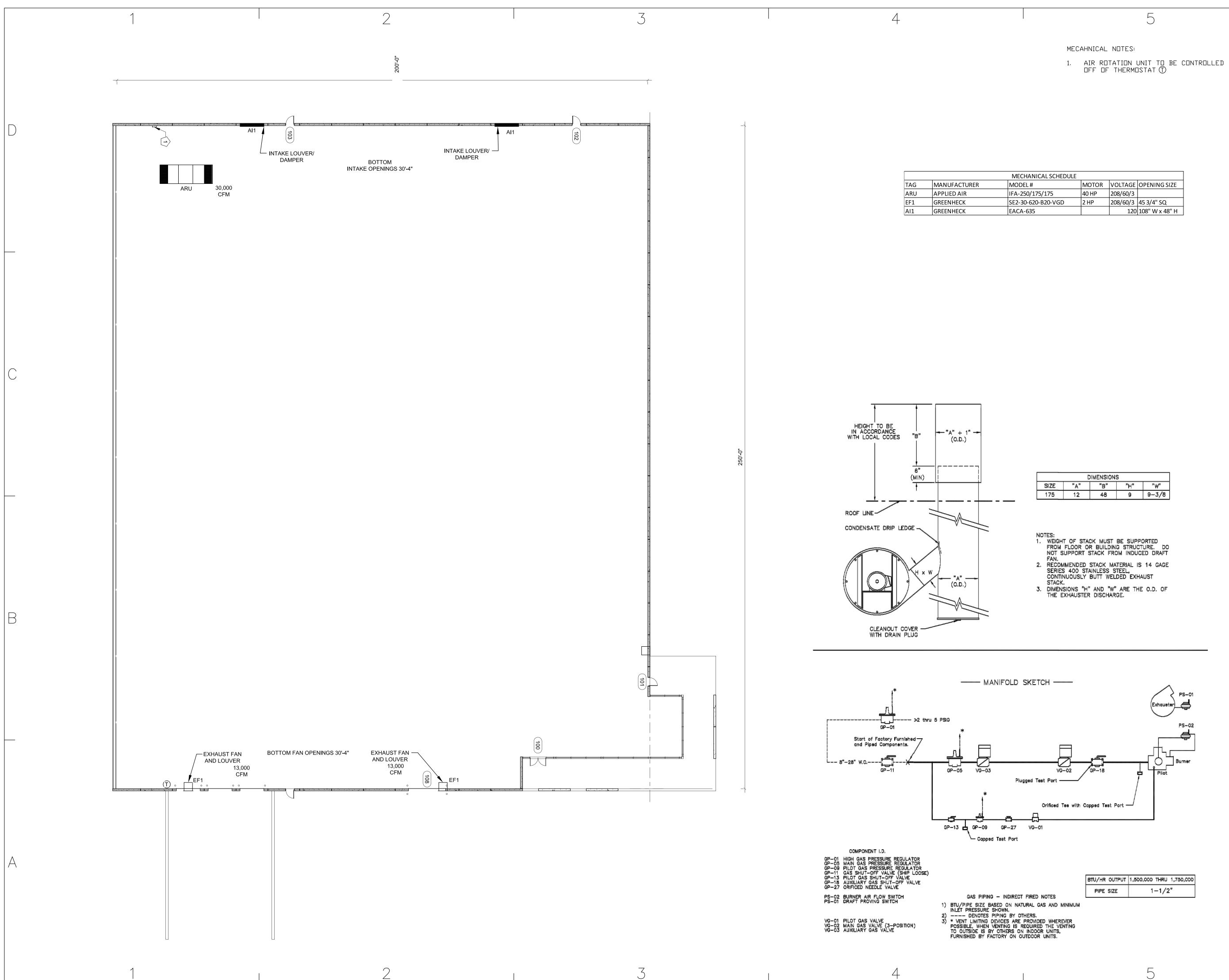
NO PIPING, CONDUIT, DUCTWORK, OR TUBING IN A LOCATION OR IN A MANNER ILL ALLOW FREEZING OR THE COLLECTION OF CONDENSATION THEREON.

BALANCING DAMPERS, AND MECHANICAL EQUIPMENT SHALL NOT BE LOCATED HARD CEILING. IF THIS IS NOT POSSIBLE, THEN AN APPROPRIATELY SIZED PANEL SHALL BE PLACED UNDER THE ITEM TO ALLOW FOR MAINTENANCE AND ENT.

CAL EQUIPMENT SHALL BE 60 HZ UNLESS OTHERWISE INDICATED.

TOR SHALL FOLLOW SEISMIC RESTRAINT AND DESIGN REQUIREMENTS CONTAINED IN 16 OF 2000 INTERNATIONAL BUILDING CODE, THIRD PRINTING, ADOPTED AS BUILDING CODE, 2003 EDITION WITH INDIANA AMENDMENTS.

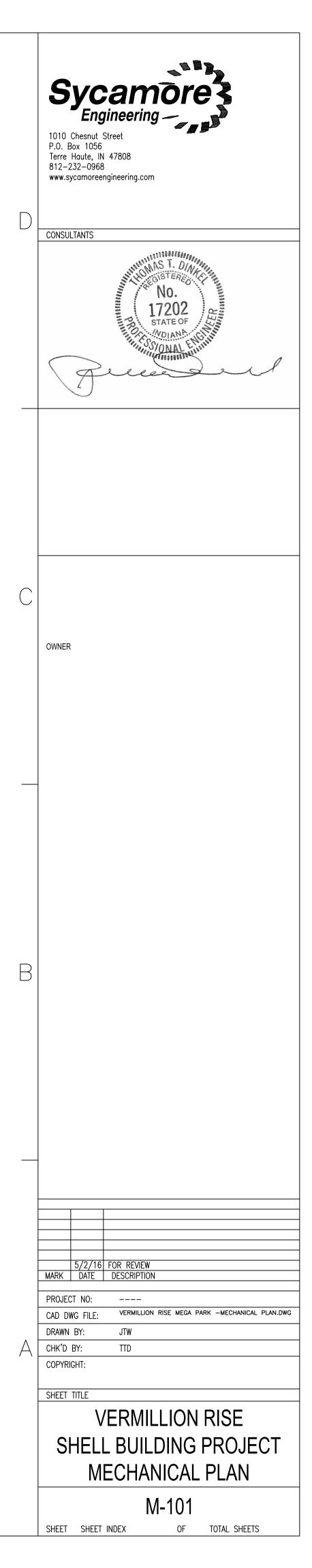




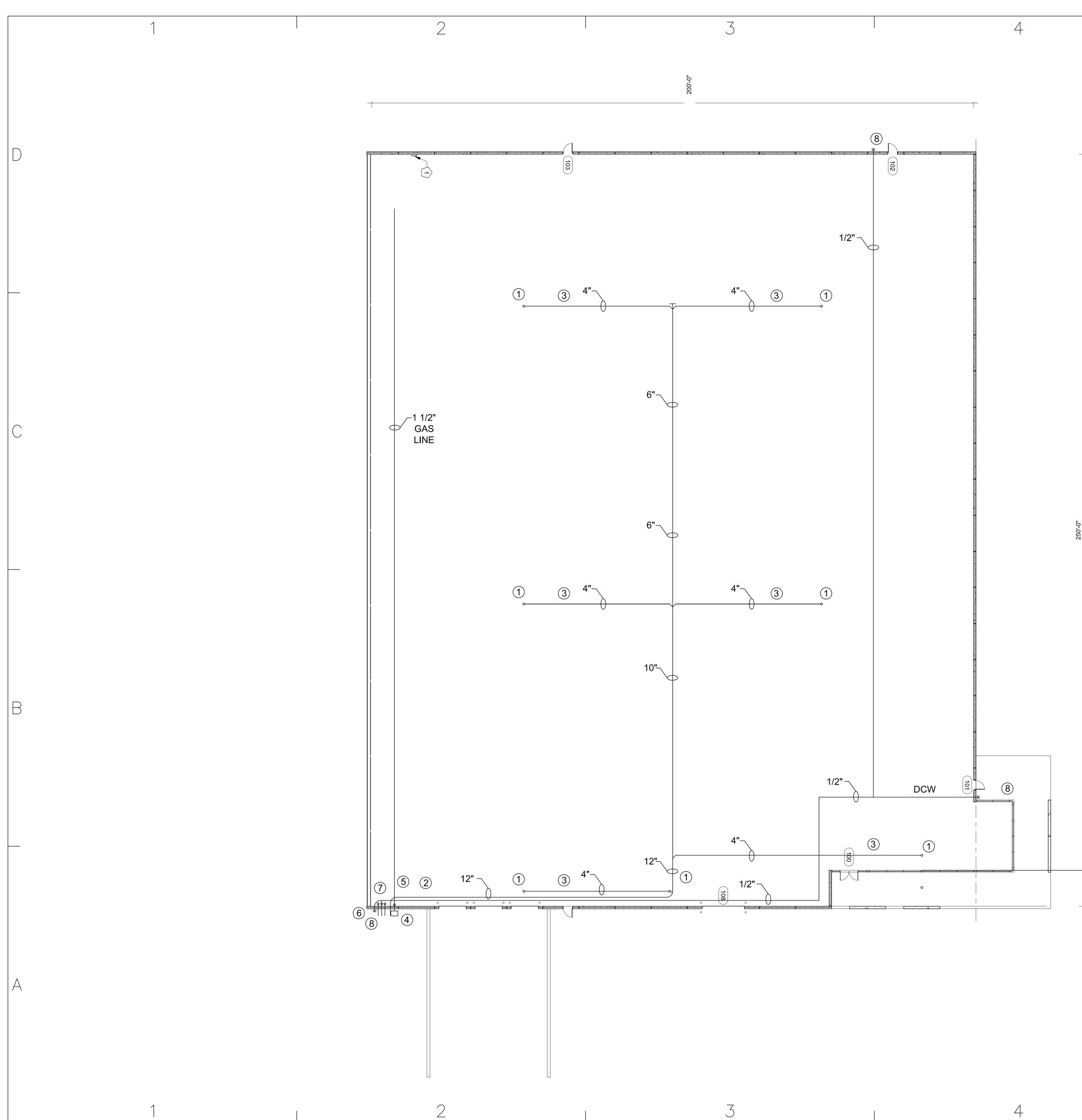
ANICAL SCHEDULE			
#	MOTOR	VOLTAGE	OPENING SIZE
/175/175	40 HP	208/60/3	
620-B20-VGD	2 HP	208/60/3	45 3/4" SQ
35		120	108" W x 48" H
			•

DIMENSIONS					
SIZE	"A"	"B"	"H"	"₩"	
175	12	48	9	9-3/8	

NOT	TES:
4	10.007



NORTH



PLUMBING NOTES:

- 1. 4″ ROOF DRAIN w/4″ OVERFLOW. UNDER DECK CLAMPS AND FLASHING, ROOFING MEMBRANE TO SLOPE TO DRAIN LOCATIONS
- 2. DOWN TO BELOW GRADE AND 5' OUTSIDE
- 3. INSULATE ROOF DRAIN PANS AND HORIZONTAL PIPING ONLY TO MAIN
- 4. GAS METER BY UTILITY COMPANY, 2" GAS MAIN INTO BUILDING, PROVIDE 1 1/2″ GAS REGULATOR TO ARU. ARU LINE TO BE RAN IN RAFTERS
- 5. 8" SANITARY WASTE STUBBED INTO BUILDING, CAP BELOW GRADE
- 6. 8" FIRE WATER LINE STUBBED INTO BUILDING AND UP 1'-0" AFF
- 7. 2" DOMESTIC WATER LINE STUBBED INTO BUILDING AND UP 1'-0" AFF. 1/2" BRANCH DFF 2" DCW TO EXTERIOR HOSE BIB LOCATED 24" AFF.
- 8. 1/2" DCW BRANCH UP TO STEEL HOSE BIB
- 9. SANITARY STUB DEPTH T.O.P. 4'-0" BELOW FINISH FLOOR
- 10. STORM DEPTH T.O.P. 3'-0" AT INVERT EXIT.

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