PL201900115
PL2019-115

SEAGATE

GATE 10 VESTIBULE ADDITION

BLOOMINGTON, MN • 7801 COMPUTER AVENUE SOUTH

PROJECT TEAM

OWNER
SEAGATE TECHNOLOGY
7801 COMPUTER AVENUE SOUTH
BLOOMINGTON, MN 55435

ARCHITECT
REPRISE DESIGN, INC.
12400 PORTLAND AVENUE SOUTH
SUITE 100
BURNSVILLE, MN 55337

CONTACT: JOHN NIGHTINGALE
(952) 562-3736

MECHANICAL ENGINEER
SEAGATE TECHNOLOGY
7801 COMPUTER AVENUE SOUTH
BLOOMINGTON, MN 55435

ELECTRICAL ENGINEER
SEAGATE TECHNOLOGY
7801 COMPUTER AVENUE SOUTH
BLOOMINGTON, MN 55435

STRUCTURAL ENGINEER
VOIGT AND ASSOCIATES, INC
4635 NICOLS ROAD, SUITE 204
EAGAN, MINNESOTA 55122
CONTACT: PAUL VOIGT
EMAIL: engineering@voigtandassociates.com
(651) 686-7127

CODE SUMMARY

PROJECT DESCRIPTION: VESTIBULE ADDITION

PROPOSED USE: ACCESSORY

APPLICABLE GOVERNING STANDARDS:
INTERNATIONAL BUILDING CODE (IBC), 2015 EDITION
MINNESOTA STATE BUILDING CODE (MSBC), 2015 EDITION
(NOTE: ALL REFERENCES ARE IBC UNLESS NOTED OTHERWISE)

OCCUPANCY CLASSIFICATION: GROUP "B" - ACCESSORY

TYPE OF CONSTRUCTION: TYPE II-B

AREA OF WORK: 64 SF (NON-SPRINKLED)
(MN RULES CHAPTER 1306 SUB P.2 ITEM B)

EXISTING BUILDING IS SPRINKLED

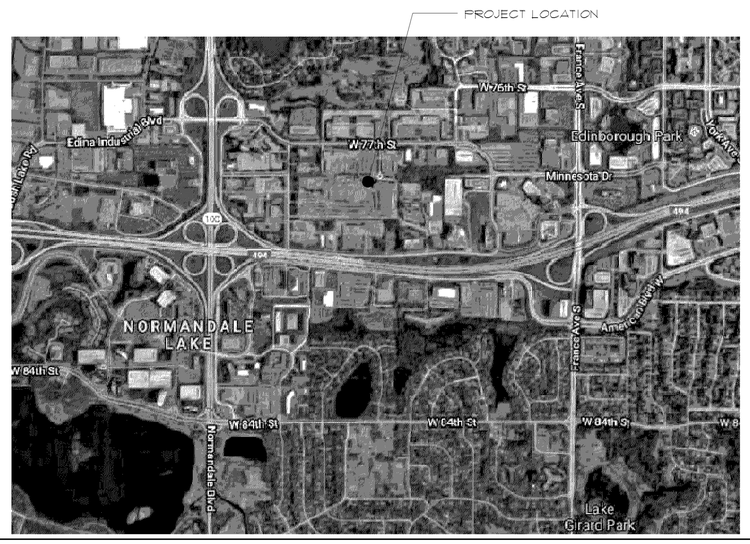
ALLOWABLE BUILDING HEIGHT: EXISTING - N/A

ALLOWABLE BUILDING AREA: EXISTING - N/A

THE EXISTING EXIT DOOR WIDTH IS MAINTAINED WITH THE NEW EXIT DOORS

PANIC HARDWARE ON NEW VESTIBULE DOORS

PROJECT LOCATION MAP



DRAFTING SYMBOLS

SYMBOL	DESCRIPTION
NORTH	NORTH ARROW
MANAGERS OFFICE	ROOM NAME
120	ROOM NUMBER
-	SECTION REFERENCE
-	ELEVATION REFERENCE
-	DETAIL REFERENCE BUBBLE
-	ELEVATION REFERENCE
-	EXIST. ELEVATION REFERENCE
-	PARTITION TYPE REFERENCE
-	KEYNOTE REFERENCE
A	WINDOW TYPE REFERENCE
-	REVISION REFERENCE
-	DOOR TAG

GENERAL NOTES

1. THE CONTRACTOR SHALL REPORT ANY DISCREPANCIES IN THE DRAWINGS OR AT THE JOB SITE TO THE ARCHITECT IMMEDIATELY UPON DISCOVERY OF SUCH INCONSISTENCIES TO DETERMINE A COURSE OF ACTION TO CORRECT ANY CONFLICTS BETWEEN THE CONTRACT DOCUMENTS AND EXISTING CONDITIONS AND DETERMINE COST RESPONSIBILITIES.
2. DO NOT SCALE DRAWINGS
3. SUBMIT ALL COLOR SAMPLES TO OWNER FOR APPROVAL PRIOR TO CONSTRUCTION. ALLOW AMPLE TIME FOR SELECTIONS AND APPROVALS.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE SECURITY OF THE SITE WHILE THE JOB IS IN PROGRESS & UNTIL THE JOB IS COMPLETED.
5. ALL DEBRIS BY GENERAL CONTRACTOR & OWNER MATERIALS SHALL BE REMOVED FROM THE PREMISES BY THE GENERAL CONTRACTOR OR RESPONSIBLE CONTRACTOR & ALL AREAS SHALL BE LEFT IN A CLEAN (BROOM) CONDITION AT ALL TIMES.
6. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO ENSURE THE SAFETY OF THE OCCUPANTS & WORKERS AT ALL TIMES.
7. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS AND SHALL MAINTAIN THE STRUCTURAL INTEGRITY OF ANY CONSTRUCTION UNTIL ALL FINISHED LOAD CARRYING SYSTEMS ARE COMPLETE.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR & SHALL REPLACE OR REMEDY ANY FAULTY, IMPROPER OR INFERIOR MATERIALS OR WORKMANSHIP OR ANY DAMAGE WHICH SHALL APPEAR WITHIN ONE (1) YEAR AFTER THE COMPLETION & ACCEPTANCE OF THE WORK UNDER THIS CONTRACT.
9. DESIGN-BUILD SUB-CONTRACTORS ARE TO VERIFY THAT ALL APPLICABLE WORK IS IN THEIR SCOPE OF WORK AND THERE-FOR IN THEIR PERSPECTIVE BID. IT IS THE RESPONSIBILITY OF THE DESIGN-BUILD SUB-CONTRACTOR TO COORDINATE THIS WITH OTHER SELECTED DESIGN-BUILD SUB-CONTRACTORS.

DRAWING INDEX

reprise DESIGN
Architecture, Inc.
12400 Portland Avenue South
Suite 100, Portland Corporate Center
Burnsville, MN 55337
Office (952) 252-4400
Fax (952) 252-4043

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly registered ARCHITECT under the laws of the State of MINNESOTA

Signature BRIAN R. JOHNSON
Date 02-25-19
Registration Number 18050

SEAGATE TECHNOLOGY
GATE 10 VESTIBULE
7801 COMPUTER AVE. SOUTH
BLOOMINGTON, MN 55435

COVER SHEET

DATE ISSUED	
PERMIT SET	02/28/19
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DRAWN BY	ND
CHECKED BY	JN
JOB NO.	18252

G-001

PL201900115
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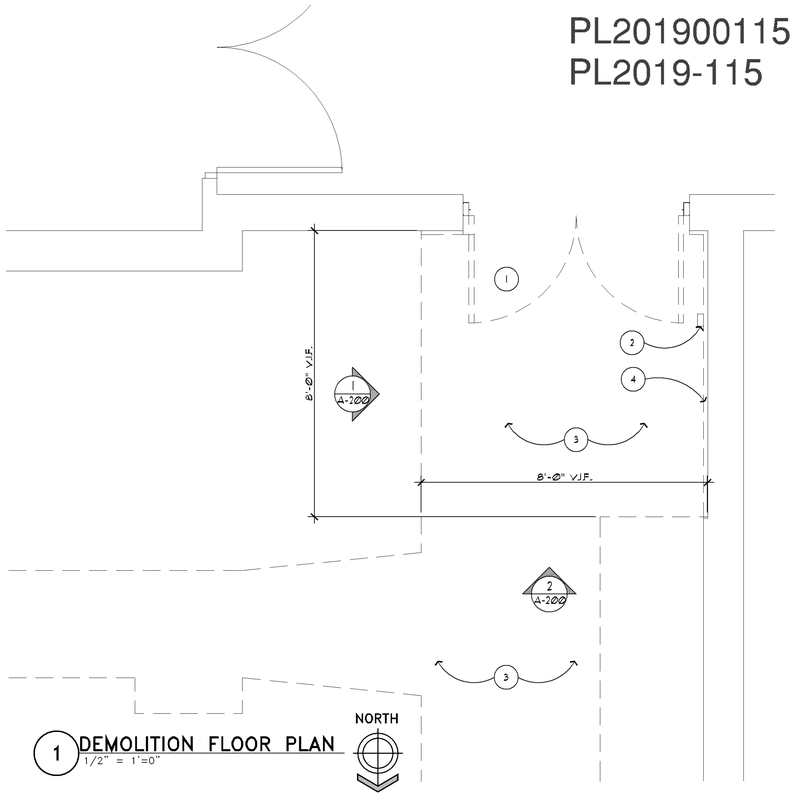
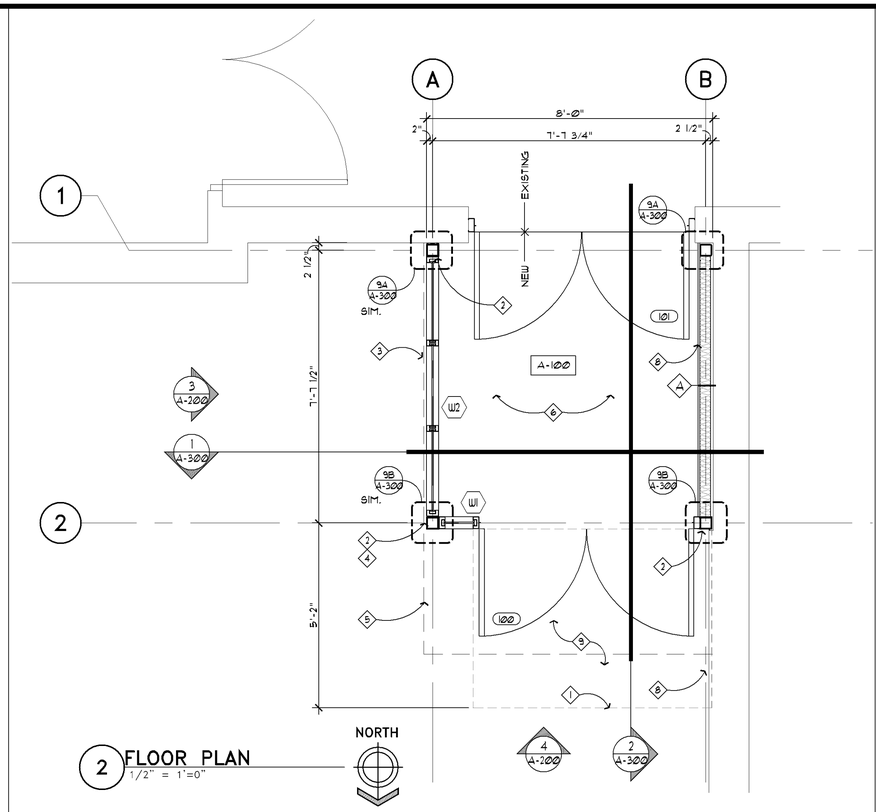


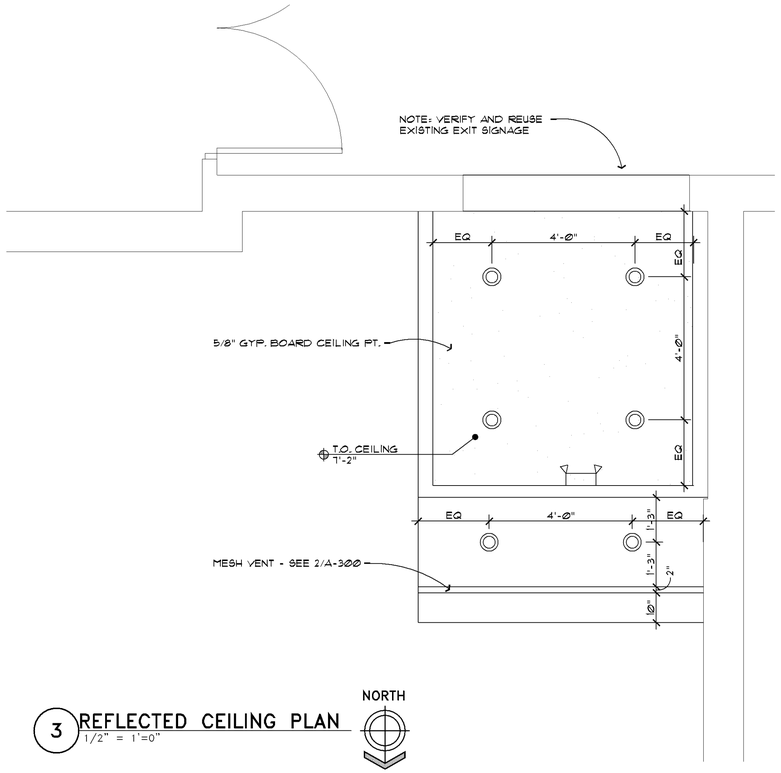
1 DEMOLITION FLOOR PLAN
1/2" = 1'=0"

NORTH



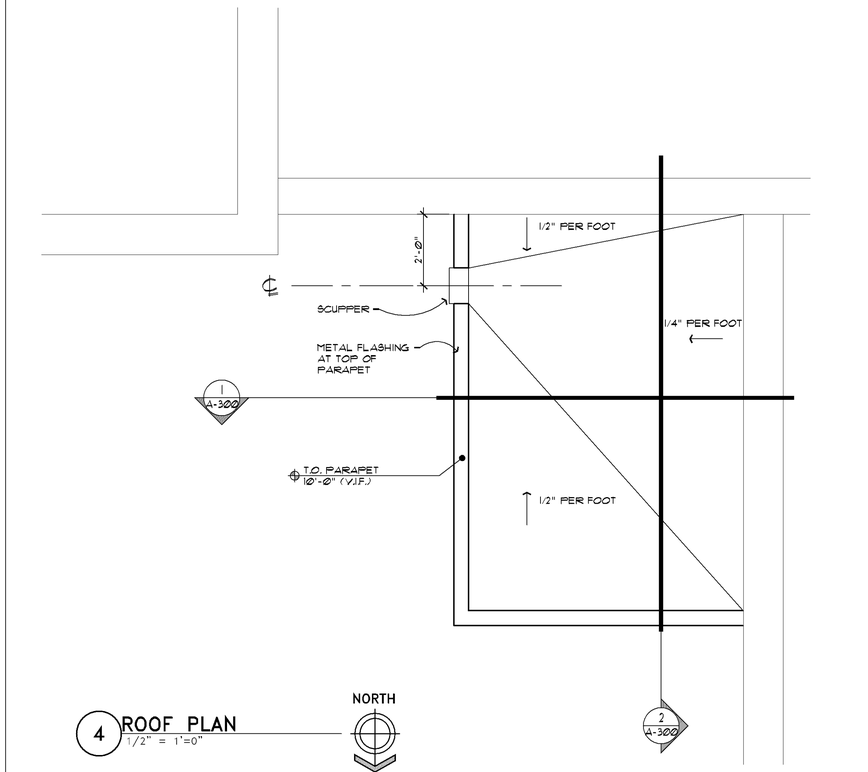
2 FLOOR PLAN
1/2" = 1'=0"

NORTH



3 REFLECTED CEILING PLAN
1/2" = 1'=0"

NORTH



4 ROOF PLAN
1/2" = 1'=0"

NORTH

DEMO FLOOR PLAN NOTES

1. EXISTING DOOR AND FRAME TO BE REMOVED.
2. EXISTING CARD READER TO BE REMOVED.
3. VERIFY EXTENT OF SIDEWALK TO BE REMOVED.
4. REMOVE EXISTING EXTERIOR FINISH.

FLOOR PLAN NOTES

1. 6'-8"x5' LEVEL LANDING @ EXTERIOR DOOR W/ MAX. 2% SLOPE AWAY FROM DOOR (SHOWN DASHED), SEE STRUCTURAL FOR ADDITIONAL INFORMATION
2. WRAP ALL EXPOSED TS COLUMS AT STOREFRONT IN ANODIZED ALUM. BREAK-METAL WRAPPING 20 GAUGE/.040 MIN. TO MATCH WINDOW ASSEMBLY
3. LINE OF EIFS ABOVE ← EIFS is a secondary material and allowed no more than 15% of an elevation.
4. 4" TS POSTS AT ALL 4 CORNERS, SEE STRUCTURAL
5. LINE OF CANOPY ABOVE
6. NEW 52oz DALCO MATTING - VIERIFY COLOR/SELECTION WITH OWNER
7. VERIFY LOCATION OF NEW BASE HEATER & THERMOSTAT (TO BE PROVIDED BY SEAGATE)
8. VERIFY LOCATION OF NEW ADA COMPLIANT OPENER & CARD READER (TO BE PROVIDED BY SEAGATE)
9. ELECTRICAL CONTRACTOR TO COORDINATE/VERIFY LOCATION OF ELECTRICAL HEAT IN EXTERIOR LANDING PRIOR TO CONSTRUCTION

FLOOR PLAN LEGEND

- SEE SHEET G-001 FOR OTHER DRAWING SYMBOL INDENTIFICATION.
- PARTITION TYPE
- DOOR NUMBER - SEE SHEET A-200 FOR SCHEDULE, TYPES, AND HARDWARE.
- WINDOW NUMBER - SEE SHEET A-200 FOR WINDOW TYPES AND DETAILS.
- EXISTING WALL/ROOF
- NEW WALL

WALL TYPES

A — 3-5/8" METAL STUDS @ 16" O.C. W/ 5/8" GYP PT., R-13 BATT INSULATION

REFLECTED CEILING PLAN NOTES

1. REFER TO FLOOR PLAN FOR PARTITION TYPE AND DIMENSIONS.
2. SUB-CONTRACTORS TO VERIFY LIGHTING AND HVAC LOCATIONS WITH ELECTRICAL AND MECHANICAL PLANS.
3. VERIFY WITH ELECTRICAL PLANS FOR LOCATION AND LIGHT FIXTURE TYPE.
4. COORDINATE CEILING & FIXTURE LAYOUT WITH OWNER.

REFLECTED CEILING PLAN LEGEND

- GYP BOARD CEILING
- LIGHT FIXTURE
- CEILING MOUNTED EXIT SIGN

ROOF PLAN LEGEND

← TAPERED INSULATION

reprise DESIGN
Architecture, Inc.
12400 Portland Avenue South
Suite 100, Portland Corporate Center
Burnsville, MN 55337
Office: (952) 252-4042
Fax: (952) 252-4043

I hereby certify that this plan, specification or report was prepared by me, or under my direct supervision and that I am a duly registered ARCHITECT under the laws of the State of MINNESOTA

BRIAN R. JOHNSON
Signature
02-25-19
Date
18050
Registration Number

SEAGATE TECHNOLOGY
GATE 10 VESTIBULE
7801 COMPUTER AVE. SOUTH
BLOOMINGTON, MN 55435

FLOOR PLAN & DETAILS

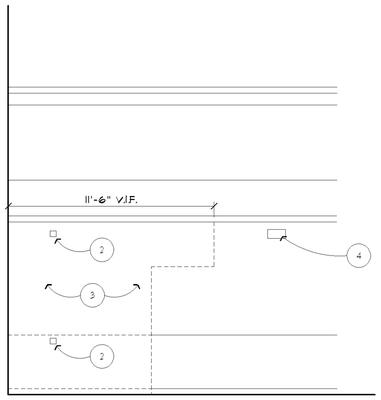
DATE ISSUED	
PERMIT SET	02/28/19
DRAWN BY	ND
CHECKED BY	JN
JOB NO.	18252

A-100

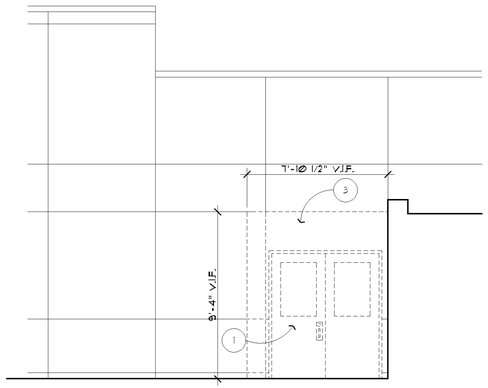
HARDWARE SCHEDULE

GROUP	QTY	DESCRIPTION	CATALOG NUMBER	MFR
HARDWARE SET 1	2 EA	CONT. HINGE	700 EPT	IVE
	2 EA	POWER TRANSFER	EPT2	VON
NOTES	1 EA	IC CYLINDER	AS REQUIRED	SCH
FUNCTION: LATCHBOLT RETRACTED INSIDE BY EXIT DEVICE PUSH PAD AND OUTSIDE BY KEY IN CYLINDER. DOOR LOCKS WHEN KEY IS REMOVED AND DOOR IS CLOSED. THIS DOOR HAS A POWER OPERATOR. INTERIOR ACTUATOR ALWAYS ACTIVE TO UNLOCK AND OPEN THE DOOR. A VALID CREDENTIAL WILL UNLOCK THE DOOR AND MAKE THE EXTERIOR ACTUATOR ACTIVE.	1 EA	ELEC PANIC	EL-24-V-EO	FAL
		HARDWARE		
	1 EA	ELEC PANIC	EL-24-V-NL-OP	FAL
		HARDWARE		
	1 EA	INTERFACE BOX	JB1-R2	VON
	2 EA	90 DEG OFFSET PULL	8190 10"	IVE
	2 EA	OH STOP	1005	GLY
	1 EA	SURFACE CLOSER	4050 TOP JAMB	LCN
	1 EA	SURF. AUTO	4642	LCN
		OPERATOR		
	2 EA	ACTUATOR WALL	8310-853	LCN
		MOUNT		
	1 EA	CARD READER	BY SECURITY SUPPLIER	
	1 EA	POWER SUPPLY	PS914 300-2R5	VON
	1 EA	ELEVATION DRAWING		
	1 EA	WIRE DIAGRAM	POINT TO POINT	

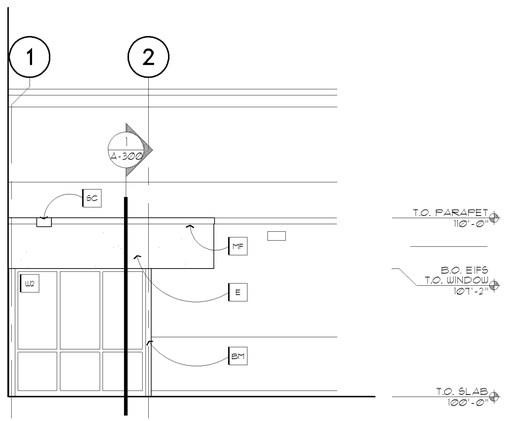
GROUP	QTY	DESCRIPTION	CATALOG NUMBER	MFR
HARDWARE SET 2	2EA	CONT. HINGE	700 EPT	IVE
	2EA	POWER TRANSFER	EPT2	VON
NOTES	1EA	IC CYLINDER	AS REQUIRED	SCH
FUNCTION: LATCHBOLT RETRACTED INSIDE BY EXIT DEVICE PUSH PAD AND OUTSIDE BY KEY IN CYLINDER. DOOR LOCKS WHEN KEY IS REMOVED AND DOOR IS CLOSED. THIS DOOR HAS A POWER OPERATOR. INTERIOR ACTUATOR ALWAYS ACTIVE TO UNLOCK AND OPEN THE DOOR. A VALID CREDENTIAL WILL UNLOCK THE DOOR AND MAKE THE EXTERIOR ACTUATOR ACTIVE.	1EA	ELEC PANIC	EL-24-V-EO	FAL
		HARDWARE		
	1EA	ELEC PANIC	EL-24-V-NL-OP	FAL
		HARDWARE		
	1EA	INTERFACE BOX	JB1-R2	VON
	2EA	90 DEG OFFSET PULL	8190 10"	IVE
	2EA	OH STOP	1005	GLY
	1EA	SURFACE CLOSER	4050 TOP JAMB	LCN
	1EA	SURF. AUTO	4642	LCN
		OPERATOR		
	2EA	ACTUATOR WALL	8310-853	LCN
		MOUNT		
	1EA	RAIN DRIP	142	ZER
	1EA	WEATHERSTRIP	BY DR/FR SUPPLIER	B/O
	2EA	DOOR SWEEP	8198	ZER
	1EA	THRESHOLD	8655	ZER
	1EA	CARD READER	BY SECURITY SUPPLIER	
	1EA	POWER SUPPLY	PS914 300-2R5	VON
	1EA	ELEVATION DRAWING		
	1EA	WIRE DIAGRAM	POINT TO POINT	



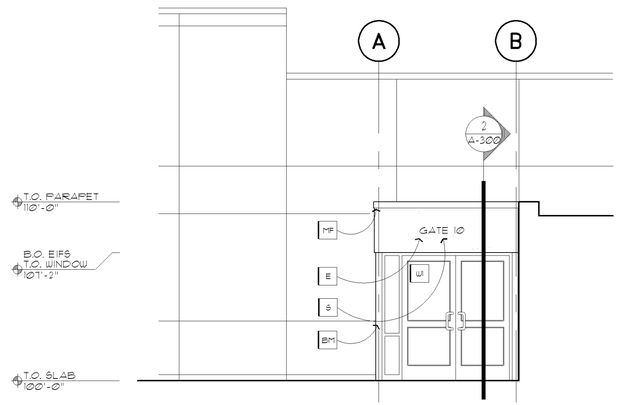
1 DEMOLITION EAST ELEVATION
1/4" = 1'=0"



2 DEMOLITION NORTH ELEVATION
1/4" = 1'=0"



3 EAST ELEVATION
1/4" = 1'=0"



4 NORTH ELEVATION
1/4" = 1'=0"

DEMO KEY NOTES

1. REMOVE EXISTING DOOR AND FRAME.
2. REMOVE EXISTING ELECTRICAL U.N.O.
3. REMOVE EXISTING EXTERIOR FINISH.
4. EXISTING LIGHT TO REMAIN

lighting must be 90 degree cutoff and provide at least 2 FC.

KEY NOTES

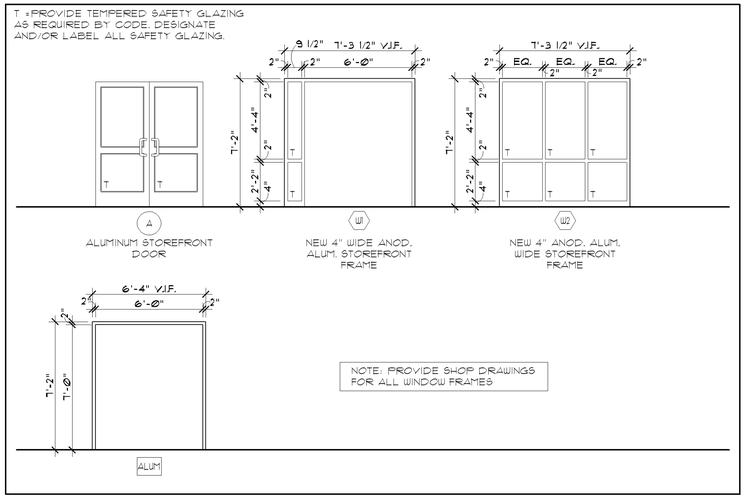
- BM BRAKE METAL-TO MATCH ANOD. ALUMINUM STOREFRONT COLOR
- E EXTERIOR FINISH SYSTEM - FINISH AND COLOR TO MATCH EXISTING EXTERIOR WALL FINISH
- MF METAL FASCIA - COLOR TO MATCH EXISTING PARAPET CAP FLASHING
- SC SCUPPER - PREFINISHED METAL TO MATCH EXISTING PARAPET CAP FLASHING COLOR
- S SIGNAGE - TO BE PROVIDED BY SEAGATE

DOOR SCHEDULE

DOOR NUMBER	DOOR SIZE	DOOR TYPE	DOOR FIN	FRAME TYPE	FRAME FIN	HARDWARE
100	6'-0"x7'-0"	A	HM	W1	-	HARDWARE SET 2
101	6'-0"x7'-0"	A	HM	ALUM	-	HARDWARE SET 1

DOOR AND FRAME TYPES

T =PROVIDE TEMPERED SAFETY GLAZING AS REQUIRED BY CODE. DESIGNATE AND/OR LABEL ALL SAFETY GLAZING.



ABBREVIATIONS, DOOR AND FRAME

AL	ALUMINUM	SC	SOLID CORE
HM	HOLLOW METAL	STL	STAINLESS STEEL
PT	PAINT	WD	WOOD

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reprise DESIGN
Architecture, Inc.
12100 Portland Avenue South
Suite 190, Portland Corporate Center
Burnsville, MN 55337
Office: (952) 252-4040
Fax: (952) 252-4043

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly registered ARCHITECT under the laws of the State of MINNESOTA

Signature
BRIAN R. JOHNSON
Date: 02-25-19
Registration Number: 18050

SEAGATE TECHNOLOGY
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EXTERIOR ELEVATIONS

DATE ISSUED	
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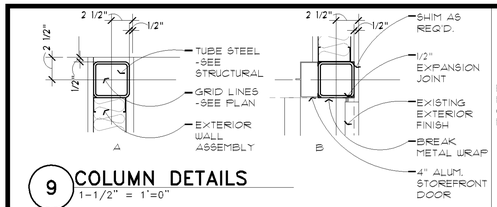
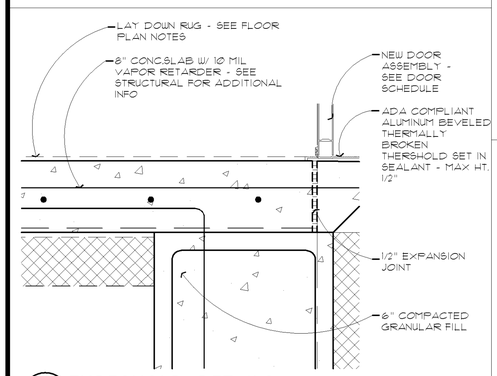
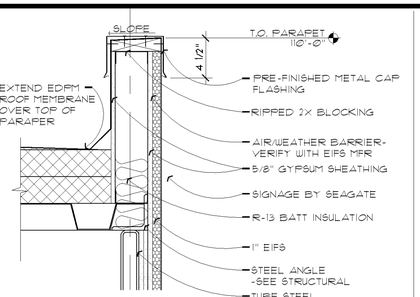


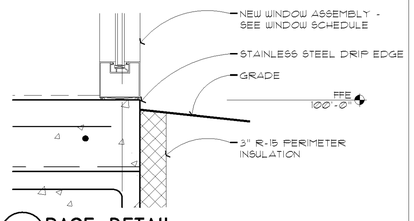
9 COLUMN DETAILS
1-1/2" = 1'=0"



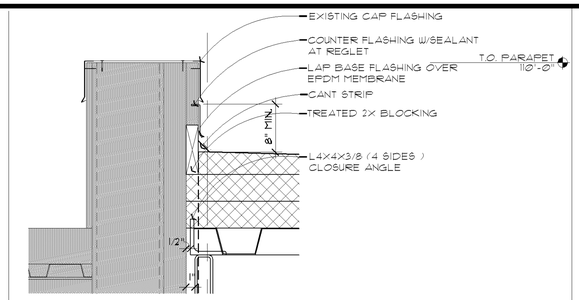
6 THRESHOLD DETAILS
1-1/2" = 1'=0"



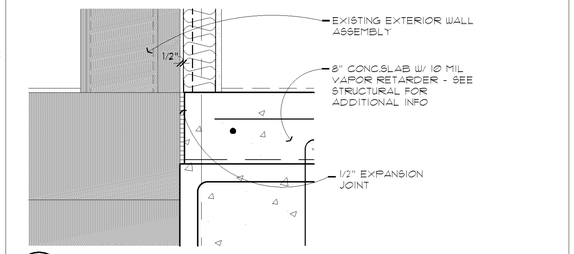
8 PARAPET DETAILS
1-1/2" = 1'=0"



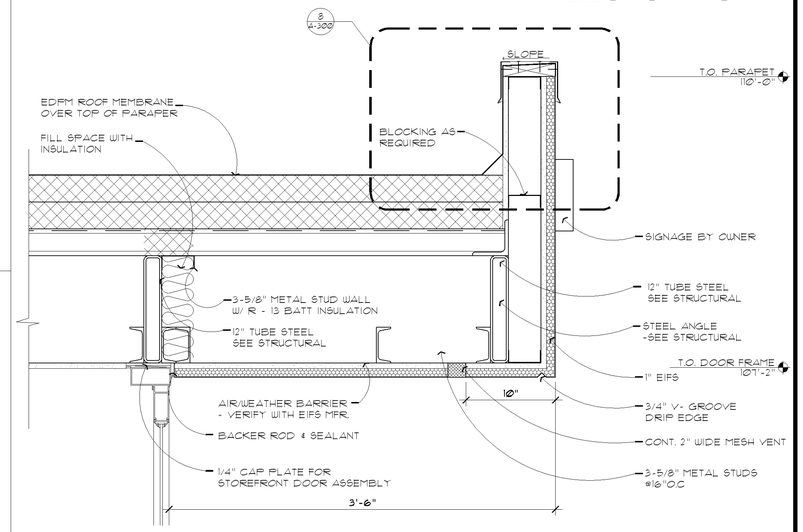
5 BASE DETAIL
1-1/2" = 1'=0"



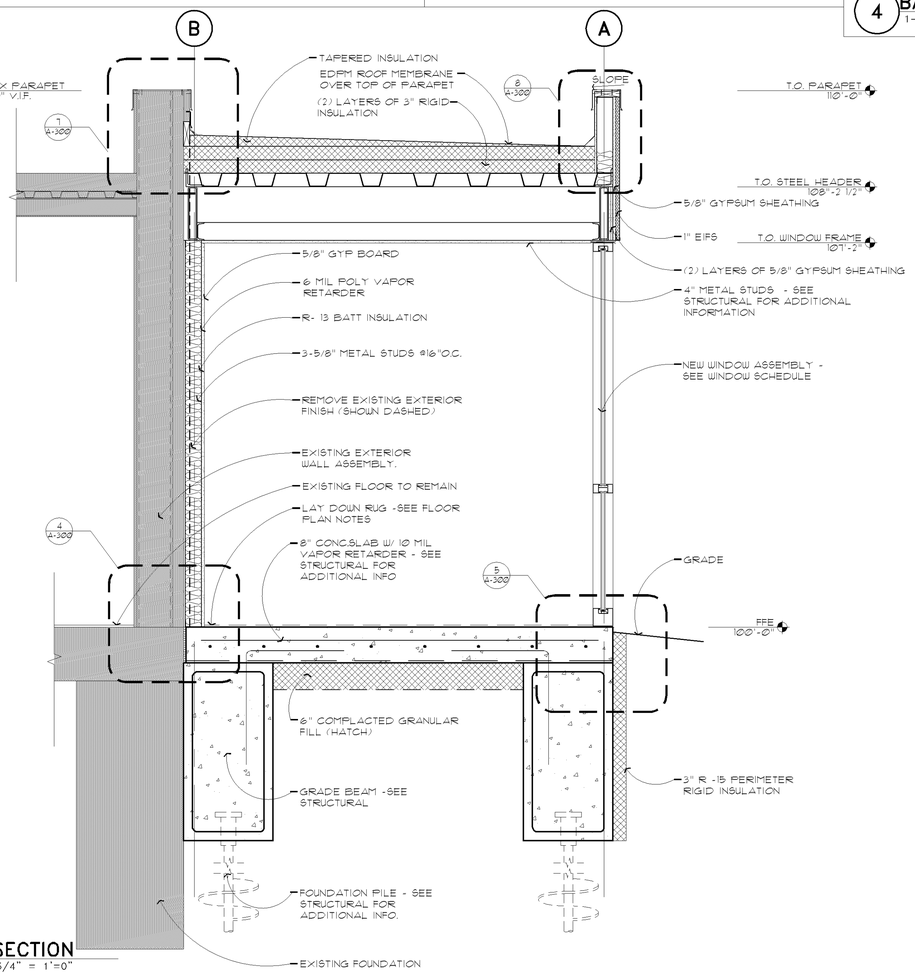
7 FLASHING DETAILS
1-1/2" = 1'=0"



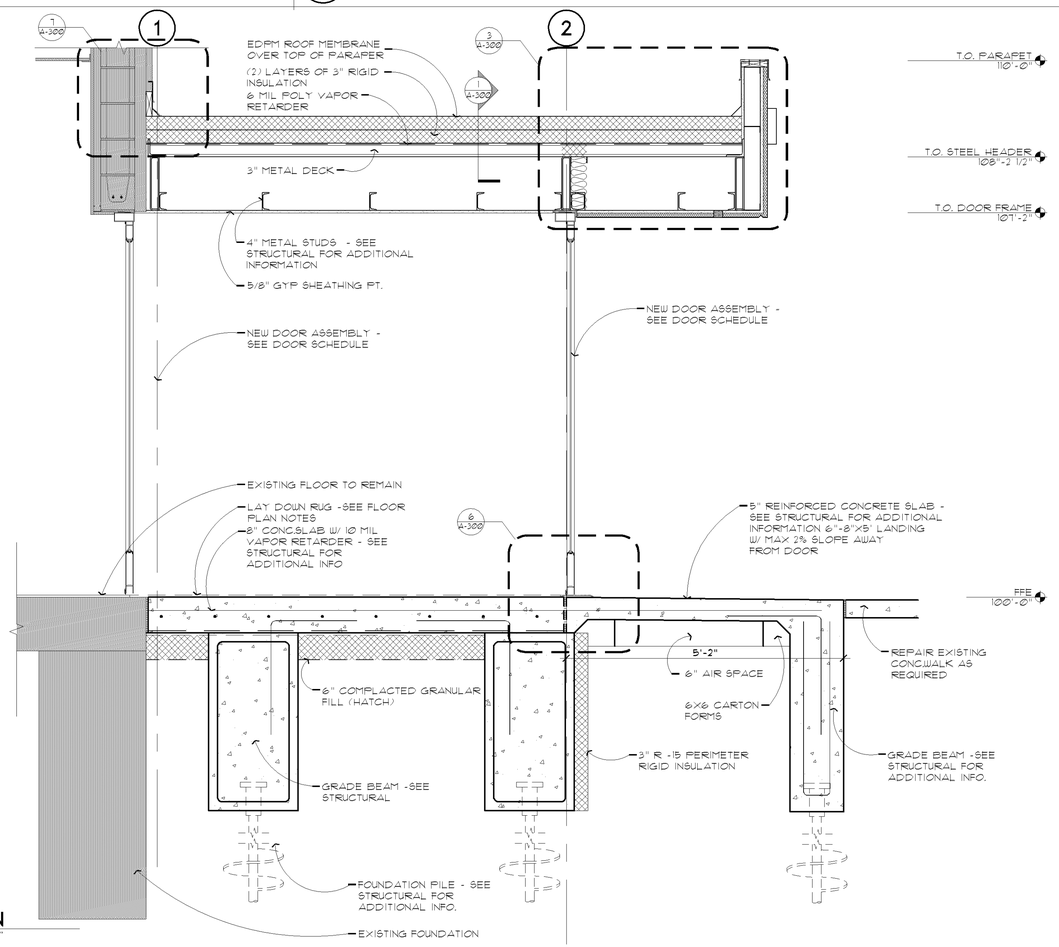
4 BASE DETAIL
1-1/2" = 1'=0"



3 OVERHANG DETAILS
1-1/2" = 1'=0"



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



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

reprise DESIGN
Architecture, Inc.
12100 Portland Avenue South
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Burnsville, MN 55337
Office: (952) 252-4043
Fax: (952) 252-4043

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Registration Number 18050
02-25-19
Date

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WALL SECTIONS

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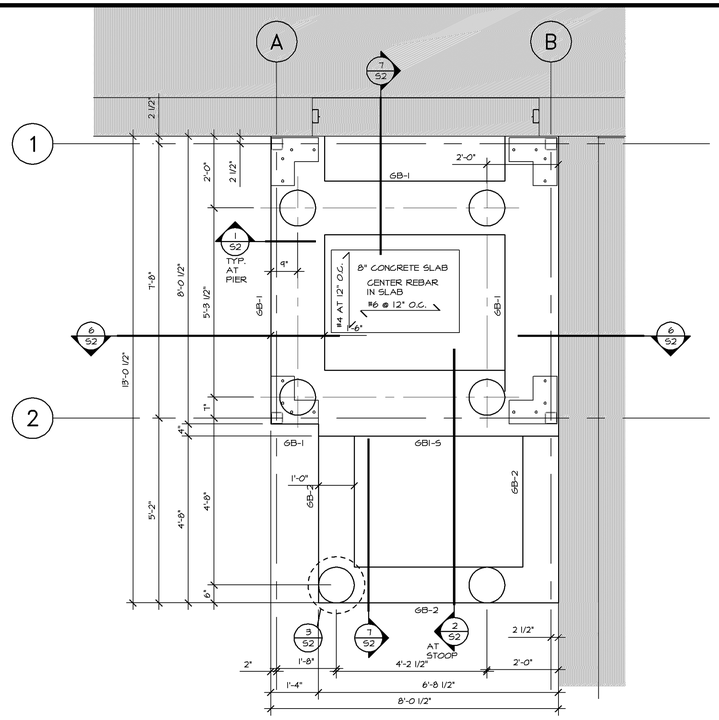
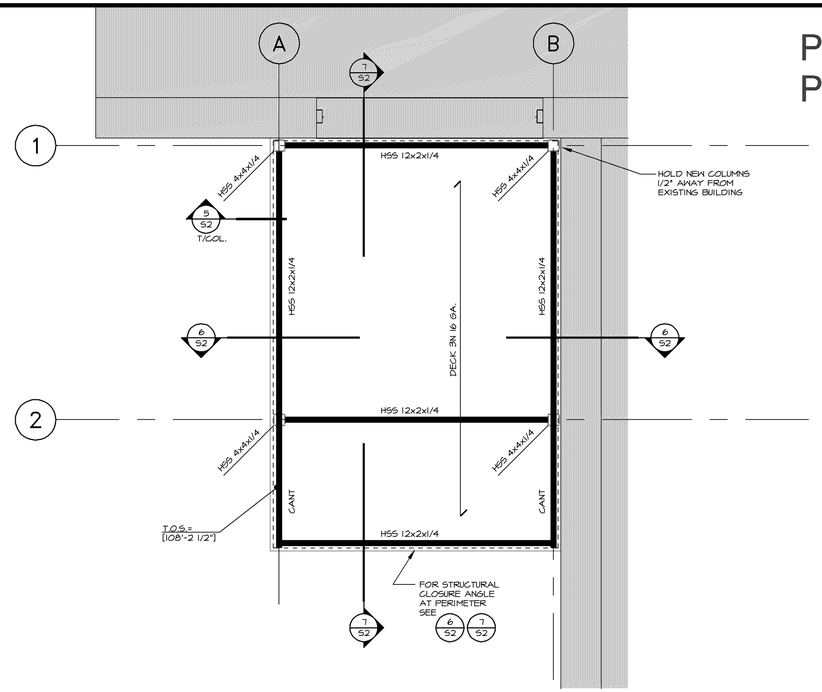


1 FOUNDATION PLAN
1/2" = 1'-0"

FOUNDATION PLAN NOTES:

1. CENTER ALL PILES UNDER GRADE BEAMS U.N.O.
2. POUR ALL GRADE BEAMS MONOLITHICALLY.
3. TOP OF GRADE BEAM EL: 99'-4", TYP. U.N.O.



2 ROOF FRAMING PLAN
1/2" = 1'-0"

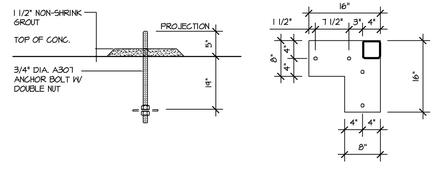
ROOF FRAMING PLAN NOTES:

1. HOLD NEW COLUMNS 1/2" AWAY FROM EXISTING BUILDING
2. CENTER HSS BEAMS ON COLUMNS

CONCRETE GRADE BEAM SCHEDULE

BEAM MARK	SIZE W *	SIZE D	REINFORCING BOTTOM	REINFORCING TOP	STIRRUPS (EACH SIDE OF BEAM, U.N.O.) SIZE/TYPE *	STIRRUPS (EACH SIDE OF BEAM, U.N.O.) SPACING (MAX)
GB-1	18	42	(3) #6	(3) #6	#4 HOOP STIRRUPS	18" O.C.
GB1-S AT STOOP	22	42	(3) #6	(3) #6	#4 HOOP STIRRUPS	18" O.C.
GB-2	12	42	(3) #6	(3) #6	#4 HOOP STIRRUPS	18" O.C.

1. SEE DETAIL 6/52 AND 7/52 FOR ADDITIONAL INFORMATION.
2. DO NOT SPLICE LONGITUDINAL BARS.
* 3. PROVIDE (2) EXTRA STIRRUPS EA SIDE OF ALL HELICAL PIERS.



3 TYPICAL BASE PLATE AND ANCHOR BOLT DETAILS
NO SCALE

enterprise Architecture, Inc.
12400 Portland Avenue South
Suite 160, Portland Corporate Center
Burnsville, MN 55337
Office: (952) 252-4042
Fax: (952) 252-4043
DESIGN

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly licensed Professional Engineer under the laws of the State of Minnesota.

Paul W. Voigt
Signature PAUL W. VOIGT 20705
2-28-19 Registration Number
Date

VOIGT & ASSOCIATES, INC.
STRUCTURAL ENGINEERING SERVICES
4651 NICOLS RD.
SUITE 204
EAGAN, MINNESOTA, 55122
PHONE (651) 686-7727
FAX (651) 686-4844

SEAGATE TECHNOLOGY
GATE 10 VESTIBULE
7801 COMPUTER AVE. SOUTH
BLOOMINGTON, MN 55435

PLANS

DATE ISSUED
PERMIT 2-28-19

DRAWN BY MLH
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JOB NO. VA-19-011

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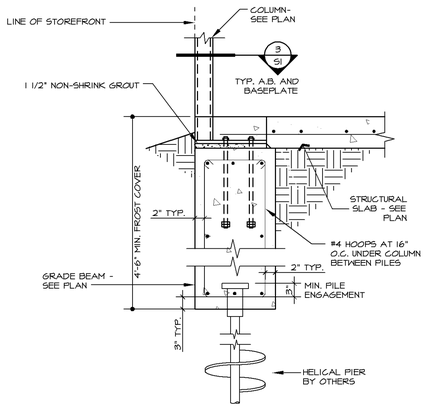
PL2019-115



1 EXT. COLUMN / GRADE BEAM DETAIL
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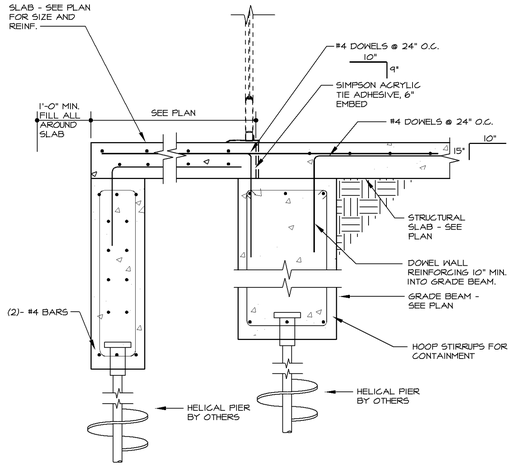

2 STOOP / GRADE BEAM DETAIL
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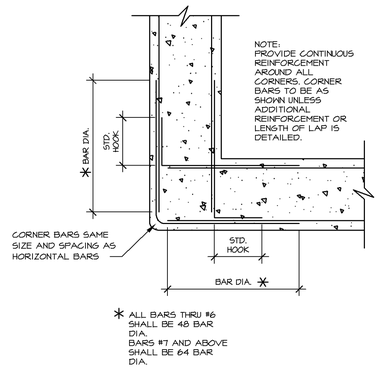
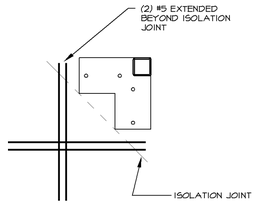


3 CORNER REINFORCEMENT
NO SCALE



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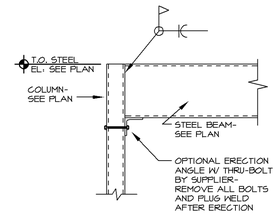
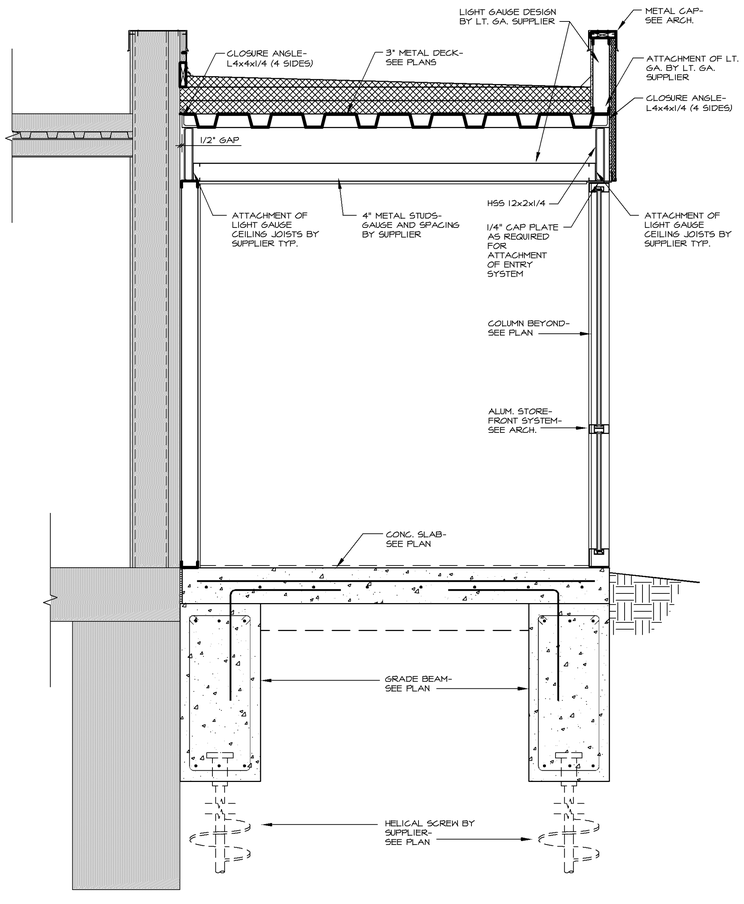
NO SCALE



5 COLUMN/BEAM CONNECTION DETAIL
NO SCALE



6 SECTION
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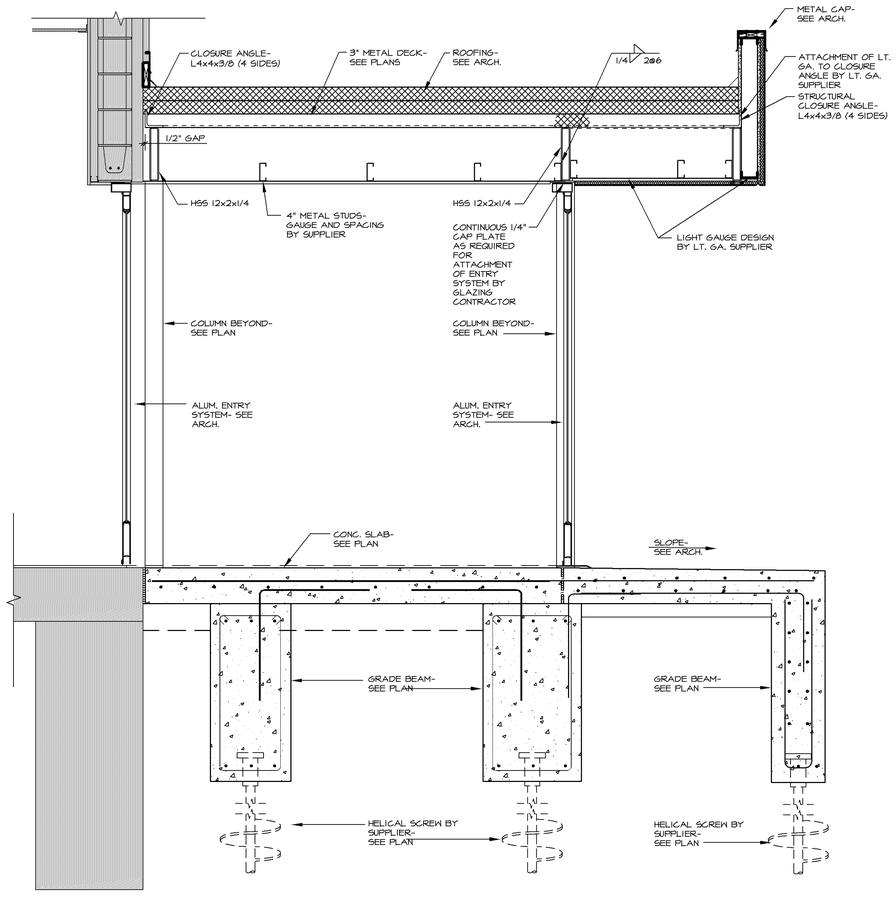

7 SECTION
NO SCALE

enterprise Architecture, Inc. DESIGN
12400 Portland Avenue South
Corporate Center
Suite 160, Portland Corporate Center
Burnsville, MN 55337
Office: (952) 252-4042
Fax: (952) 252-4043

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly licensed Professional Engineer under the laws of the State of Minnesota.

Paul W. Voigt
Signature PAUL W. VOIGT 20705
2-28-19 Registration Number
Date

VOIGT & ASSOCIATES, INC.
STRUCTURAL ENGINEERING SERVICES
4855 NICOLS RD.
SUITE 204
EAGAN, MINNESOTA 55122
PHONE (651) 686-7727
FAX (651) 686-4844

SEAGATE TECHNOLOGY
GATE 10 VESTIBULE
7801 COMPUTER AVE. SOUTH
BLOOMINGTON, MN 55435

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GENERAL STRUCTURAL NOTES

BUILDING CODES USED FOR DESIGN
- IBC 2012 (WITH MINNESOTA AMENDMENTS)

DESIGN LOADS
- DESIGN LIVE LOADS:
  PUBLIC AREAS, CORRIDORS AND STAIRS — 100 PSF
  ROOF — * 30 PSF GROUND SNOW
  WIND — ** 90 MPH

  * PLUS DRIFTING AND/OR SLIDING SNOW
  ** EXPOSURE B

HELICAL PIERS
- HELICAL PIERS TO HAVE WORKING CAPACITY OF 20K VERTICAL AND 2K LATERAL.
- PIER SIZE, LENGTH AND CONFIGURATION TO BE DESIGNED BY SUPPLIER.
- RECORDS OF PERIMETER LENGTHS, ELEVATIONS, AND DRIVING RESISTANCE SHALL BE KEPT BY SUPPLIER AND PROVIDED TO THE ENGINEER AND OWNER.

BACKFILLING
- BOTH SIDES OF FOUNDATION WALLS SHALL BE BACKFILLED SIMULTANEOUSLY SO AS TO PREVENT OVERTURNING OR LATERAL MOVEMENT OF WALLS.

COLD WEATHER EXCAVATION
- FROST SHOULD NOT BE ALLOWED TO PENETRATE INTO THE SOILS BELOW ANY PROPOSED STRUCTURE.
- WINTER EXCAVATION SHOULD BE LIMITED TO AREAS SMALL ENOUGH TO BE REFILLED TO A GRADE HIGHER THAN FOOTING GRADE ON THE SAME DAY.
- TRENCHING BACK DOWN TO UNFROZEN SOILS FOR FOUNDATION CONSTRUCTION CAN THEN BE PERFORMED JUST PRIOR TO FOOTING PLACEMENT.
- THE EXCAVATED TRENCHES SHOULD BE PROTECTED FROM FREEZING BY MEANS OF INSULATING OR HEATING DURING THE FOUNDATION CONSTRUCTION.
- BACKFILLING OF THE TRENCHES SHOULD BE PERFORMED IMMEDIATELY AFTER THE BELOW-GRADE FOUNDATION CONSTRUCTION IS FINISHED.
- ANY INTERIOR FOOTINGS, OR FOOTINGS DESIGNED WITHOUT FROST PROTECTION SHOULD BE EXTENDED BELOW FROST DEPTH, UNLESS ADEQUATE PRECAUTIONS ARE TAKEN TO PREVENT FROST INTRUSION UNTIL THE BUILDING CAN BE ENCLOSED AND HEATED.
- ANY FROST WHICH FORMS IN LOOSE LAYER, OR SNOW WHICH ACCUMULATES, SHOULD BE COMPLETELY REMOVED FROM THE FILL AREA PRIOR TO COMPLETION AND ADDITIONAL SOIL PLACEMENT.
- FROZEN SOILS, OR SOILS CONTAINING FROZEN MATERIAL OR SNOW SHOULD NEVER BE USED AS FILL MATERIAL.
- AFTER THE STRUCTURE HAS BEEN ENCLOSED, ALL FLOOR SLAB AREAS SHOULD BE SUBJECTED TO AMPLE PERIODS OF HEATING TO ALLOW THAWING OF THE SOIL SYSTEM.
- THE FLOOR SLAB AREAS SHOULD BE CHECKED AT RANDOM AND REPRESENTATIVE LOCATIONS FOR REMNANT AREAS OF FROST, AND DENSITY TESTS SHOULD BE PERFORMED TO DOCUMENT FILL COMPACTION PRIOR TO SLAB PLACEMENT.

DESIGN STRESSES - NOTE ALL MATERIALS MAY NOT BE USED ON THIS JOB.
- CONCRETE

STRENGTH AT 28 DAYS (PSI)	TYPE MIX	LOCATION
3000	STD. WT.	INTERIOR SLABS AND WALLS
4000	STD. WT.	EXTERIOR SLABS AND WALLS
	AIR-ENTRAINED	
3000	STD. WT	FOOTINGS

- MASONRY — f'm = 1500 PSI (AT 28 Days)
- REINFORCEMENT — Fy = 60,000 PSI ASTM A615
- WIDE FLANGE SHAPES — Fy = 50,000 PSI ASTM A572
- STRUCTURAL TUBING — Fy = 46,000 PSI ASTM A500 GRADE B
- STANDARD STEEL PIPE — Fy = 36,000 PSI ASTM A53 GRADE B
- PLATES — Fy = 36,000 PSI ASTM A36
- MISC. STRUCTURAL SHAPES — Fy = 36,000 PSI ASTM A36
- BOLTS — Fv = 120,000 PSI ASTM A325
- ANCHOR BOLTS — Fy = 60,000 PSI ASTM A307**
- WELD ELECTRODE — Fy = 70,000 PSI
- WELDED WIRE FABRIC — ASTM A185

CONCRETE
- CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS OF ACI 301.
- TOLERANCES SHALL CONFORM TO ACI 117.

CONCRETE COVERAGE FOR REINFORCEMENT
- FOOTINGS — 3"
- EXPOSED EXTERIOR CONCRETE — 2"

REINFORCING STEEL
- THE REINFORCING STEEL CONTRACTOR SHALL FABRICATE ALL REINFORCEMENT AND FURNISH ALL ACCESSORIES, CHAIRS, SPACER BARS AND SUPPORTS NECESSARY TO SECURE THE REINFORCEMENT UNLESS SHOWN OTHERWISE ON THE PLANS AND/OR DETAILS.
- CONCRETE REINFORCEMENT SHALL BE PLACED ACCORDING TO THE CRSI "RECOMMENDED PRACTICE FOR PLACING REINFORCING BARS".
- COMPRESSION AND TENSION LAP SPLICES FOR CAST-IN-PLACE CONCRETE SHALL BE 36 BAR DIAMETERS MINIMUM UNLESS OTHERWISE NOTED.
- TENSION LAP SPLICES FOR REINFORCED MASONRY SHALL BE 48 BAR DIAMETERS MINIMUM, UNLESS OTHERWISE NOTED.
- HORIZONTAL REINFORCING STEEL IN FOOTINGS AND CONCRETE WALLS SHALL BE CONTINUOUS AROUND CORNERS.
- ALL LAPS IN WWF SHOULD BE ONE MESH PLUS TWO INCHES AT SPLICES.
- PROVIDE (2) #5 REINFORCING BARS EACH SIDE AROUND OPENINGS IN CONCRETE WALLS AND SLABS. BARS SHALL EXTEND 24" BEYOND THE CORNERS OF THE OPENINGS. ALSO PROVIDE (2) #5 DIAGONAL BARS AT EACH CORNER OF OPENING.
- TOP BARS SHALL BE HOOKED AT END SPANS.

CONSTRUCTION AND CONTROL JOINTS IN CONCRETE
- CONSTRUCTION JOINTS SHALL BE MADE AS DETAILED ON THE DRAWINGS.
- MAXIMUM SPACING FOR CONTROL JOINTS IN SLABS ON GRADE SHALL BE 12'-0".
- A 12'-0" MAXIMUM SPACING OF CONTROL JOINTS MAY NOT INSURE COMPLETE CONTROL OF SHRINKAGE CRACKS. A CLOSER SPACING MAY BE USED BY REQUEST OF OWNER IF MORE COMPLETE SHRINKAGE CRACK CONTROL IS DESIRED. CONTRACTOR TO VERIFY WITH OWNER.
- CONSTRUCTION JOINTS IN CONCRETE FOUNDATION WALLS SHALL BE LOCATED SO NO SINGLE POUR IS LONGER THAN 30 FEET.

STRUCTURAL STEEL
- FABRICATIONS AND ERECTION OF STRUCTURAL STEEL MEMBERS IS TO BE IN ACCORDANCE WITH A.I.S.C. CODE OF STANDARD PRACTICE.
- ALL CONNECTIONS SHALL BE BOLTED OR WELDED AND SHALL DEVELOP THE FULL STRENGTH OF THE STRUCTURAL MEMBERS, UNLESS NOTED OTHERWISE. (MINIMUM OF (2) BOLTS PER CONNECTION).
- ALL WELDING SHALL BE BY QUALIFIED WELDERS AND SHALL CONFORM TO THE STANDARDS OF THE AMERICAN WELDING SOCIETY, D1.1-98 STRUCTURAL WELDING CODE - STEEL. WELDING OF GALVANIZED PARTS IS NOT PERMITTED.
- ELECTRODES FOR ALL FIELD AND SHOP WELDING SHALL CONFORM TO MATCHING FILLER METAL REQUIREMENTS OF AWS D1.1-98.
- FIELD CONNECTIONS ARE TO BE BOLTED OR WELDED. USE 3/4" DIA. HIGH STRENGTH BOLTS AND NUTS (A325X) UNLESS SHOWN OTHERWISE ON PLANS.
- STEEL COLUMN BASE PLATES SHALL BE SIZE SHOWN ON PLAN WITH 3/4" DIAMETER ANCHOR BOLTS (A307) AND 1" NON-SHRINK GROUT FOR UNIFORM BEARING.
- UNLESS NOTED OTHERWISE STRUCTURAL STEEL SUPPLIER IS TO FURNISH (3) 1/2" x 3 1/2" x 1/4" SHOP WELDED ANGLE FRAMES AT ALL ROOF OPENINGS. VERIFY SIZE AND LOCATION WITH MECHANICAL CONTRACTOR.
- ALL STRUCTURAL STEEL AND MISCELLANEOUS METALS SHALL BE PRIME PAINTED WITH ONE COAT OF TNEMEC 88A PRIMER OR EQUAL. TOUCH UP ALL DISTURBED AREAS AFTER ERECTION.
- CUTS, HOLES (OPENINGS), ETC. REQUIRED IN STRUCTURAL STEEL MEMBERS FOR THE WORK OF OTHER TRADES SHALL NOT BE ALLOWED, EXCEPT BY WRITTEN PERMISSION FROM THE ARCHITECT.
- GROUT UNDER BEAM BEARING PLATES AND COLUMN BASE PLATES SHALL BE "NON-SHRINK" AND SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 10,000 PSI.

STEEL ROOF DECK
- STEEL DECK SHALL BE PAINTED.
- END JOINTS OF DECK SHALL BE STAGGERED WITH 2" MINIMUM END LAPS.
- DECK SHALL BE 1 1/2" - 22 GAGE WIDE RIB DECK, TYPE B.
- METAL DECK- SEE PLAN FOR SIZE AND GAGE

LIGHT GAGE STUDS AND JOISTS
- ALL STUD (AND/OR) JOIST FRAMING MEMBERS SHALL BE DESIGNED BY SUPPLIER.
- ALL STUDS, JOISTS AND ACCESSORIES SHALL BE PRIMED WITH RUST-INHIBITIVE PAINT MEETING THE PERFORMANCE REQUIREMENTS OF TT-P-636c, OR SHALL BE FORMED FROM STEEL HAVING A G-60 GALVANIZED COATING.
- ALL FRAMING MEMBERS SHALL MEET THE REQUIREMENTS OF ASTM A446, WITH A MINIMUM YIELD OF 33,000 PSI FOR 18 GA. OR LIGHTER, 50,000 PSI FOR 16 GA. OR HEAVIER.
- ALL TRACKS SHALL MEET THE REQUIREMENTS OF A446, GRADE 33, WITH A MINIMUM YIELD OF 33,000 PSI.
- ALL WELDING IS TO BE DONE PER MANUFACTURERS RECOMMENDATIONS ON ROD TYPE AND AMPERAGE.
- TRACKS SHALL BE SECURELY ANCHORED TO CONCRETE OR CMU. JOISTS SHALL BE SET SQUARE AND PLUMB INTO TRACKS AND SECURELY FASTENED TO WEB AND FLANGES.
- UNLESS DETAILED OTHERWISE, MAKE FIELD CONNECTIONS USING (3) #12 PAN HEAD SCREWS OR 1/8" BY 1 1/2" LONG FILLET WELDS.
- NO SPLICES IN STUDS SHALL BE PERMITTED.
- BRACE ALL WALLS WITH COLD ROLLED CHANNEL THROUGH THE STUD PUNCHOUTS AT 4'-0" O.C. MAXIMUM.

CONSTRUCTION PROCEDURE
- THE STRUCTURE SHALL BE ADEQUATELY BRACED AND SHORED DURING ERECTION AGAINST WIND AND ERECTION LOADS. STRUCTURAL MEMBERS ARE DESIGNED FOR "INPLACE" LOADS.
- COMPLY WITH ALL APPLICABLE CITY, COUNTY, STATE AND FEDERAL LAWS, INCLUDING THE OCCUPATIONAL SAFETY AND HEATH ACT (OSHA) AND REGULATIONS ADOPTED PURSUANT THERETO.
- THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. UNLESS OTHERWISE NOTED, THEY DO NOT INDICATE THE MEANS OR METHOD OF CONSTRUCTION. PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE, WORKMEN OR OTHER PERSONS DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT ARE NOT LIMITED TO BRACING, SHORING FOR CONSTRUCTION EQUIPMENT, SHORING FOR THE BUILDING, SHORING FOR EACH BANKS, FORMS, SCAFFOLDING, FLANKING, SAFETY NETS, SUPPORT AND BRACING FOR CRANES AND GIN POLES, ETC.
- ENGAGE PROPERTY QUALIFIED PERSONS TO DETERMINE WHERE AND HOW TEMPORARY PRECAUTIONARY MEASURES SHALL BE USED AND INSPECT SAME IN THE FIELD. OBSERVATION VISITS TO THE SITE BY ENGINEER'S FIELD REPRESENTATIVE SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS.
- SUPERVISE AND DIRECT THE WORK SO AS TO MAINTAIN SOLE RESPONSIBILITY FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES. AS A PART OF THIS RESPONSIBILITY, RETAIN THE SERVICES OF A LICENSED STRUCTURAL ENGINEER TO DESIGN AND SUPERVISE ANY SCAFFOLDING FOR WORKMEN, AND ALL SHORING OF FORMS AND ELEMENTS OF THE CONSTRUCTION.

MISCELLANEOUS
- PLACEMENT OF ANCHOR BOLT, PIPE SLEEVES, PADS AND OPENINGS FOR EQUIPMENT SHALL BE COORDINATED BETWEEN THE GENERAL CONTRACTOR AND THE OTHER SUBCONTRACTORS.
- ALL CORE DRILLING SHALL BE DONE UNDER THE SUPERVISION OF THE GENERAL CONTRACTOR. NO REINFORCING SHALL BE CUT. VERIFY LOCATION OF REINFORCING BEFORE CORE DRILLING. THERE SHALL NOT BE ANY CORE DRILLING THROUGH BEAMS OR COLUMNS. MAXIMUM CORE HOLD THROUGH SLABS SHALL BE PIPE DIAMETER PLUS 1".

COORDINATION WITH ARCHITECTURAL DRAWINGS
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS WITH THE ARCHITECTURAL DRAWINGS. WHERE DISCREPANCIES OCCUR IT IS THE CONTRACTORS RESPONSIBILITY TO NOTIFY THE ARCHITECT PRIOR TO CONSTRUCTION.

SHOP DRAWINGS
- SHOP DRAWINGS, UNLESS NOTED OTHERWISE, SHALL BE SUBMITTED FOR REVIEW PRIOR TO FABRICATION
- SHOP DRAWINGS TO BE PREPARED UNDER SUPERVISION OF A REGISTERED PROFESSIONAL ENGINEER, INCLUDING COMPLETE DETAILS AND SCHEDULES FOR FABRICATION AND ASSEMBLY OF STRUCTURAL STEEL MEMBERS, PROCEDURES AND DIAGRAMS.
- FABRICATORS SHALL DRAW THEIR OWN ERECTION PLANS, COPYING THE STRUCTURAL PLANS AND USING THEM AS ERECTION DRAWINGS IS NOT ACCEPTABLE
- PRIOR TO SUBMITTAL, THE CONTRACTOR SHALL REVIEW THE SHOP DRAWINGS AND MAKE ANY CORRECTIONS REQUIRED. THE CONTRACTOR SHALL STAMP AND SIGN THE DRAWINGS AS EVIDENCE THAT HE HAS REVIEWED THEM.
- SHOP DRAWINGS SHALL BE FURNISHED FOR ALL STRUCTURAL COMPONENTS.
- TURN AROUND TIME FOR SHOP DRAWINGS SHALL BE ONE WEEK FROM DATE RECEIVED IN THE ENGINEERS OFFICE.
- SHOP DRAWINGS FOR ALL STRUCTURAL COMPONENTS AND SYSTEMS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO FABRICATION AND CONSTRUCTION.

STRUCTURAL DRAWINGS
- THESE DRAWINGS SHOW INTENT OF DESIGN, AND ARE NOT INTENDED TO CONFLICT WITH THE CONVENTION OF PROFESSIONAL CONSTRUCTION PRACTICES, BE EXCLUSIVE IN USE, NOR PURPORT TO INDICATE EVERY ITEM OF WORK OR MATERIAL NECESSARY FOR A COMPLETE AND SATISFACTORY PROJECT. ALL QUESTIONS REGARDING DESIGN INTENT OR MATERIALS SHOULD BE BROUGHT TO THE ARCHITECTS AND ENGINEERS ATTENTION IMMEDIATELY. DO NOT PROCEED WITH ANY DEGREE OF UNCERTAINTY WITH ANY ITEM OR PHASE OF THE WORK.

SPECIAL INSPECTIONS
- SPECIAL INSPECTIONS SHALL BE PROVIDED IN ACCORDANCE WITH THE IBC. THE SPECIAL INSPECTOR SHALL BE EMPLOYED BY THE OWNER AND SHALL MEET THE QUALIFICATIONS OF THE CODE..

NEW WORK IN CONJUCTION WITH EXISTING CONSTRUCTION
- THE CONTRACTOR SHALL VERIFY, BY FIELD CHECK, ALL SIZES, DIMENSIONS, ELEVATIONS, LOCATIONS, ETC. OF ELEMENTS OF THE EXISTING CONSTRUCTION WHICH ARE RELATIVE TO THE NEW CONSTRUCTION.
- ALL DIMENSIONS INVOLVING NEW WORK TYING INTO OR GOVERNED BY EXISTING CONSTRUCTION SHALL BE FIELD CHECKED BY THE CONTRACTOR AND FURNISHED TO THE SUBCONTRACTOR PRIOR TO FABRICATION OF ANY WORK. THE VERIFIED DIMENSIONS SHALL APPEAR AND BE NOTED AS SUCH ON THE FIRST SHOP DRAWING SUBMITTED.
- THE ENGINEER HAS MADE ASSUMPTIONS CONCERNING THE SOUNDNESS OF THE EXISTING BUILDINGS AND THESE ASSUMPTIONS ARE THAT THIS BUILDING WAS DESIGNED AND CONSTRUCTED IN CONFORMITY WITH GOOD DESIGN AND CONSTRUCTION PRACTICES. THE CONTRACTOR SHALL TAKE EXTRAORDINARY PRECAUTIONS CONCERNING PRESERVATION OF THE BUILDING DURING DEMOLITION AND NEW CONSTRUCTION WORK. FURTHER, HE SHALL AGREE TO ASSUME ALL RESPONSIBILITY FOR THE PRESERVATION OF THIS PROPERTY.
- THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER IMMEDIATELY OF ANY DISCREPANCIES BETWEEN CONSTRUCTION DOCUMENTS AND ACTUAL FIELD CONDITIONS.
- ALL HOLES THROUGH EXISTING CONCRETE OR MASONRY CONSTRUCTION SHALL BE CORE DRILLED OR SAW CUT. NEW OPENINGS MUST BE MADE WITH ENGINEER'S APPROVAL.
- CUTTING OF EXISTING STRUCTURAL STEEL IS PROHIBITED WITHOUT APPROVAL FROM THE ENGINEER.

Enterprise Architecture, Inc.
12400 Portland Avenue South
Suite 160, Portland Corporate Center
Burnsville, MN 55337
Office: (952) 252-4042
Fax: (952) 252-4043

DESIGN

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly licensed Professional Engineer under the laws of the State of Minnesota.

Paul W. Voigt
Signature — PAUL W. VOIGT
2-28-19 — 20705
Date — Registration Number

VOIGT & ASSOCIATES, INC.
STRUCTURAL ENGINEERING SERVICES
4431 NICOLS RD.
SUITE 204
EAGAN, MINNESOTA 55122
PHONE (651) 686-7727
FAX (651) 800-6844

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