

ORANGE COUNTY CONVENTION CENTER WEST CONCOURSE PEMB

ORANGE COUNTY MAYOR
TERESA JACOBS

DISTRICT 1 COMMISSIONER
S. SCOTT BOYD

DISTRICT 2 COMMISSIONER
BRYAN NELSON



DISTRICT 3 COMMISSIONER
PETE CLARKE

DISTRICT 4 COMMISSIONER
JENNIFER THOMPSON

DISTRICT 5 COMMISSIONER
TED B. EDWARDS

DISTRICT 6 COMMISSIONER
VICTORIA P. SIPLIN

PERMIT AND BID DOCUMENTS

APRIL 8, 2016

ATKINS

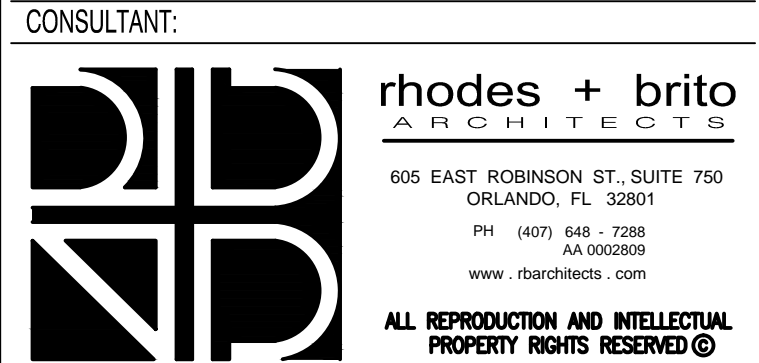
482 SOUTH KELLER ROAD
ORLANDO, FLORIDA 32810

Sheet Number	Sheet Name	Scale	Sheet Issued
G-000	COVER SHEET AND SHEET INDEX	No Scale	Yes
C-100	DEMOLITION AND SITE PLAN	1"=40'-0"	Yes
C-501	SITE DETAILS	No Scale	Yes
C-502	STORMWATER POLLUTION PREVENTION PLAN	No Scale	Yes
C-503	EROSION CONTROL DETAILS	No Scale	Yes
LS-201	LIFE SAFETY PLAN	1/8"=1'-0"	Yes
A-101	SITE PLAN	1/16"=1'-0"	Yes
A-201	FLOOR PLAN	1/8"=1'-0"	Yes
A-501	EXTERIOR ELEVATIONS	1/8"=1'-0"	Yes
A-601	BUILDING SECTIONS	VARIES	Yes

Sheet Number	Sheet Name	Scale	Sheet Issued
A-701	DOOR AND LOUVER DETAILS	VARIES	Yes
S-001	GENERAL NOTES SYMBOLS AND ABBREVIATIONS	No Scale	Yes
S-002	LOAD DIAGRAMS	VARIES	Yes
S-101	MONOLITHIC SLAB AND FND REACTION PLAN	1/4"=1'-0"	Yes
S-201	FOUNDATION SECTIONS AND DETAILS	3/4"=1'-0"	Yes
M-101	HVAC PLAN AND SCHEDULE	1/8"=1'-0"	Yes
E-001	ELECTRICAL LEGEND AND SCHEDULES	No Scale	Yes
ES-101	ELECTRICAL SITE PLAN	1/16"=1'-0"	Yes
E-101	ELECTRICAL PLANS	1/8"=1'-0"	Yes

ATKINS

482 SOUTH KELLER ROAD
ORLANDO, FL 32810
PHONE: 407.647.7275 FAX: 407.740.8958



PROJECT NAME:

Orange County Convention Center
West Concourse PEMB Building
9800 International Drive Orlando, FL 32819
Atkins Project # 100047904

No.	Date	Description
	12/01/2015	60% Design Documents
	01/22/2016	90% Design Documents
	03/21/2016	100% Design Documents
	04/08/2016	Permit and Bid Documents

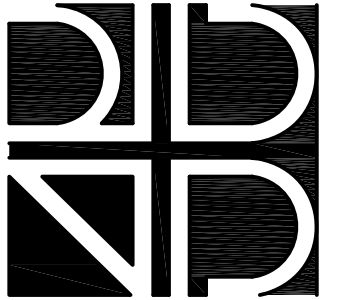
ISSUE LOG
PROFESSIONAL SEALS:

SHEET TITLE:

SHEET COVER AND SHEET INDEX

SHEET INFORMATION:	
JOB No. 100047904	Date Issued: 04-08-2016
Designed By: -	Sheet Number: -
Checked By: -	
QC Review: -	G-000
Phase:	

CONSULTANT:



rhodes + brito
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CLIENT:



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9800 International Drive Orlando, FL 32819

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SHEET TITLE:

DEMOLITION AND SITE PLAN

SHEET INFORMATION:

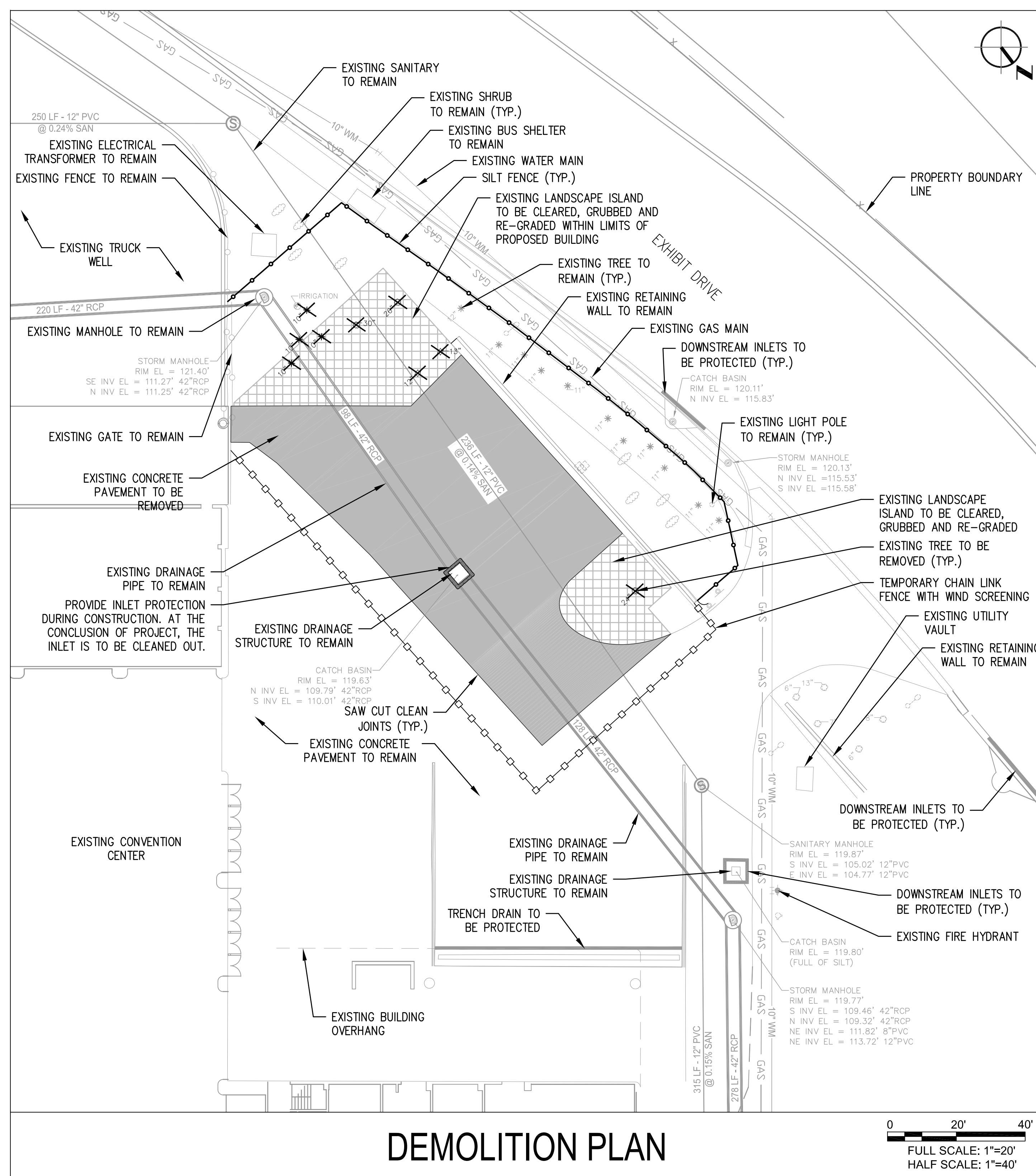
JOB No. **100047904** Date Issued: 04-08-2016

Designed By: **JLV** Sheet Number:

Checked By: **JMR**

OC Reviewer: **JPW** **C-100**

Phase: **1**



DEMOLITION NOTES

- CONTRACTOR TO DEMOLISH AND REMOVE ALL LANDSCAPING AND IMPROVEMENTS WITHIN LIMITS OF DEMOLITION UNLESS OTHERWISE NOTED.
- CONTRACTOR TO ESTABLISH AND PROPERLY FLAG PROPERTY LINES PRIOR TO DEMOLITION.
- THE CONTRACTOR SHALL UTILIZE SUITABLE EROSION CONTROL DURING DEMOLITION, SEE STORMWATER POLLUTION PREVENTION NOTES AND DETAILS.
- THE CONTRACTOR IS RESPONSIBLE FOR THE LEGAL DISPOSAL OF ALL DEMOLITION DEBRIS.
- TREES SHOWN TO REMAIN SHALL MAINTAIN PROTECTIVE BARRIERS DURING DEMOLITION AND CONSTRUCTION. THESE BARRIERS SHALL BE IN ACCORDANCE WITH CURRENT COUNTY STANDARDS.
- THE CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES PRIOR TO DEMOLITION AND WILL BE RESPONSIBLE FOR THE DAMAGE OF ANY ON-SITE OR OFF-SITE UTILITIES THAT ARE OR ARE NOT A PART OF THIS PROJECT OR ARE NOT IDENTIFIED TO BE REMOVED. BELOW GROUND UTILITY LOCATIONS ARE APPROXIMATE AND WERE BASED UPON AS-BUILTS PROVIDED.
- THE CONTRACTOR SHALL BARRICADE THE SITE AND CONTROL TRAFFIC PER CURRENT FDOT TRAFFIC CONTROL STANDARDS.
- REMOVE ALL FOUNDATIONS OF BUILDINGS, LIGHT POLES AND SIGN POSTS TO BE DEMOLISHED.
- SAW CUT CLEAN, STRAIGHT EDGES WHEN REMOVING EXISTING CONCRETE PAVEMENT.
- EXISTING LANDSCAPE ISLANDS AROUND THE PROPOSED BUILDING ARE TO BE CLEARED AND GRUBBED.
- ALL PROTECTED INLETS AND DRAINS ARE TO BE CLEANED OUT AT THE CONCLUSION OF CONSTRUCTION.

GENERAL NOTES

- ALL DISTURBED AREAS WITHIN THE RIGHT-OF-WAY WILL BE SODED.
- ALL DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
- SOD AT THE BACK OF ALL CURBS, PAVEMENT EDGES, SWALES AND DETENTION AREAS.
- ALL SITE CONSTRUCTION MUST BE IN COMPLIANCE WITH THE AMERICANS WITH DISABILITIES ACT AND THE FLORIDA ACCESSIBILITY CODE.
- CONTRACTOR TO SUBMIT JOINT PLAN TO ENGINEER OF RECORD FOR APPROVAL PRIOR TO THE PLACEMENT OF ANY SITE CONCRETE.

EXISTING UTILITIES NOTE:

CONTRACTOR SHALL FIELD VERIFY THE LOCATIONS, ELEVATIONS, AND DIMENSIONS OF ALL EXISTING UTILITIES AND SHALL NOTIFY THE ENGINEER OF ANY DEVIATION FROM THE PLANS PRIOR TO PROCEEDING WITH ANY PROPOSED CONSTRUCTION. EXISTING UTILITY INFORMATION IS BASED UPON AS-BUILT DRAWINGS PROVIDED.

UTILITY NOTES:

- CONTRACTOR TO NOTIFY ALL UTILITY COMPANIES FOR EXACT LOCATION OF UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.
- CONTRACTOR RESPONSIBLE TO PROTECT FROM DAMAGE FOR ALL UNDERGROUND CONDUITS AND SLEEVES FOR ELECTRICAL, IRRIGATION AND COMMUNICATIONS.
- THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN EXCAVATING IN PROXIMITY OF ALL UTILITIES. EXISTING UTILITY LOCATIONS SHOWN ON PLANS ARE NOT EXACT OR GUARANTEED.
- A MINIMUM 5-FOOT SEPARATION SHALL BE MAINTAINED BETWEEN ALL UNDERGROUND UTILITIES AND EXISTING/PROPOSED TRENCHES.

OFFSITE VEHICLE TRACKING:

THE PAVED STREET ADJACENT TO THE SITE ENTRANCE WILL BE SWEEPED DAILY TO REMOVE ANY EXCESS MUD, DIRT OR ROCK TRACKED FROM THE SITE. DUMP TRUCKS HAULING MATERIAL FROM THE CONSTRUCTION SITE WILL BE COVERED WITH A TARPULIN.

SPILL PREVENTION:

PAINTS:

ALL CONTAINERS WILL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. EXCESS PAINT WILL NOT BE DISCHARGED TO THE STORM SEWER SYSTEM BUT WILL BE PROPERLY DISPOSED OF ACCORDING TO MANUFACTURERS' INSTRUCTIONS OR STATE AND LOCAL REGULATIONS.

CONCRETE TRUCKS:

CONCRETE TRUCKS WILL NOT BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ON THE SITE.

SPILL CONTROL PRACTICES:

IN ADDITION TO THE GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES DISCUSSED IN THE PREVIOUS SECTIONS OF THIS PLAN, THE FOLLOWING PRACTICES WILL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP:

MANUFACTURERS' RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED ON SITE AND SITE PERSONNEL WILL BE MADE AWARE OF THE PROCEDURES AND THE LOCATION OF THE INFORMATION AND CLEANUP SUPPLIES.

MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREA ON-SITE. EQUIPMENT AND MATERIALS WILL INCLUDE BUT NOT BE LIMITED TO BROOMS, DUST PANS, MOPS, RAGS, GLOVES, GOGGLES, LIQUID ABSORBENT (I.E. KITTY LITTER OR EQUAL), SAND, SAWDUST, AND PLASTIC AND METAL TRASH CONTAINERS SPECIFICALLY FOR THIS PURPOSE.

ALL SPILLS WILL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY.

THE SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.

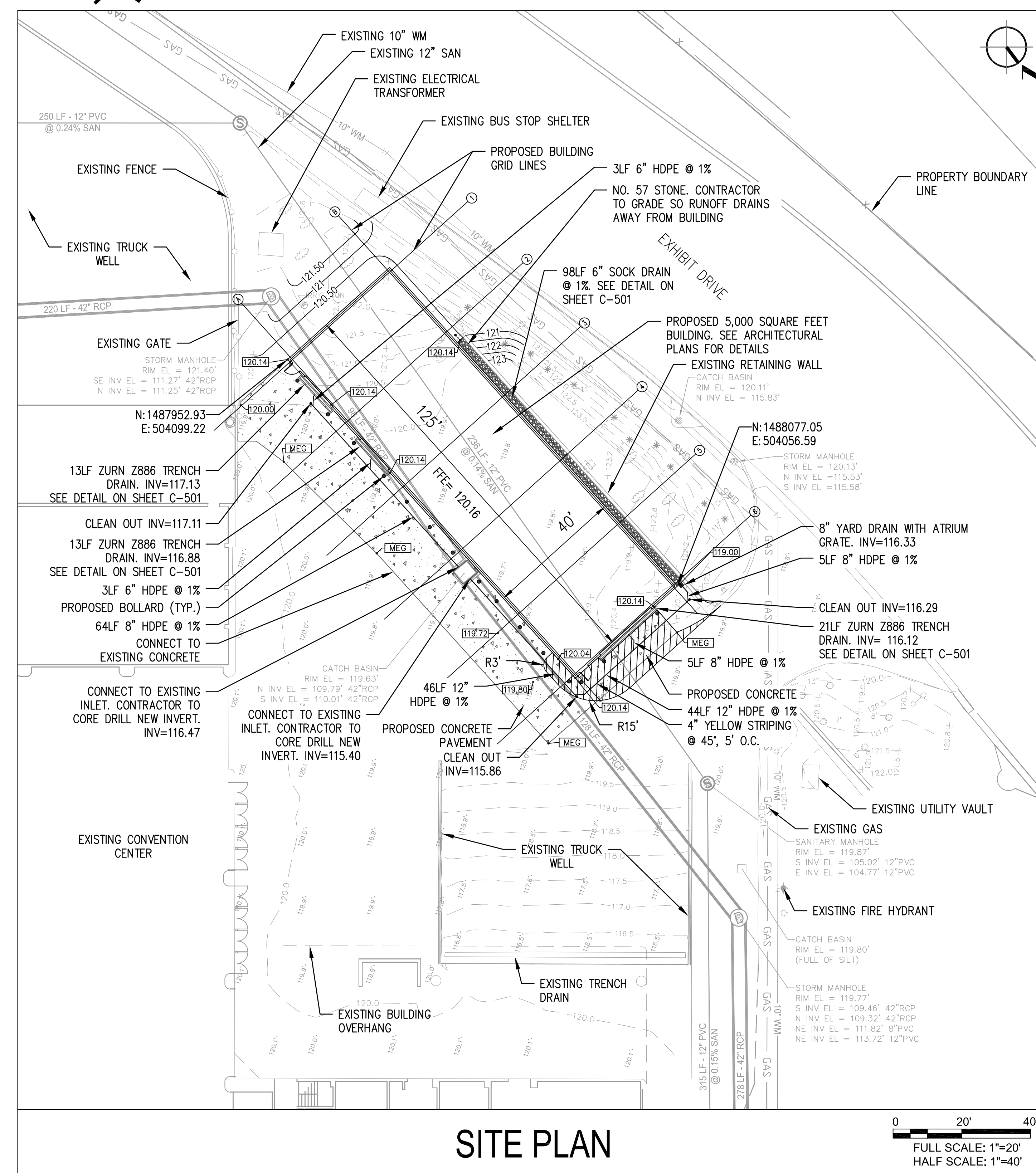
SPILL OF TOXIC OR HAZARDOUS MATERIAL WILL BE REPORTED TO THE APPROPRIATE STATE OR LOCAL GOVERNMENT AGENCY, REGARDLESS OF THE SIZE OF THE SPILL.

THE SPILL PREVENTION PLAN WILL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL FROM REOCCURRING AND HOW TO CLEAN UP THE SPILL IF THERE IS ANOTHER ONE. A DESCRIPTION OF THE SPILL, WHAT CAUSED IT, AND THE CLEANUP MEASURES WILL ALSO BE INCLUDED.

THE SITE SUPERINTENDENT RESPONSIBLE FOR THE DAY-TO-DAY SITE OPERATIONS, WILL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR. HE/SHE WILL DESIGNATE AT LEAST ONE OTHER SITE PERSONNEL WHO WILL RECEIVE SPILL PREVENTION AND CLEANUP TRAINING. THESE INDIVIDUALS WILL EACH BECOME RESPONSIBLE FOR A PARTICULAR PHASE OF PREVENTION AND CLEANUP. THE NAMES OF RESPONSIBLE SPILL PERSONNEL WILL BE POSTED IN THE MATERIAL STORAGE AREA AND IF APPLICABLE, IN THE OFFICE TRAILER ON-SITE.

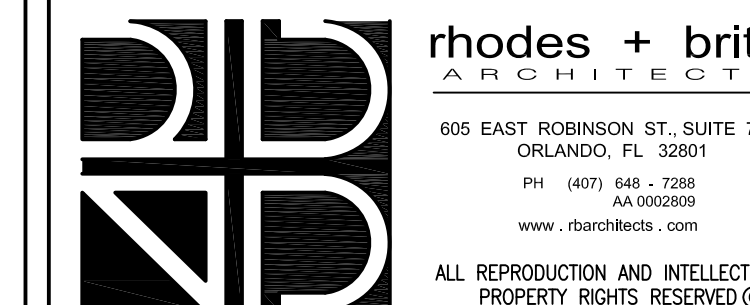
LEGEND

	EXISTING PAVEMENT TO BE REMOVED		EXISTING GAS MAIN		EXISTING CONTOUR
	EXISTING LANDSCAPE ISLAND TO BE CLEARED, GRUBBED, AND RE-GRADED		EXISTING STORM SEWER PIPE AND SIZE		PROPOSED SPOT ELEVATIONS
	PROPOSED CONCRETE PAVEMENT		EXISTING STORM INLETS		MATCH EXISTING GRADE
	INLET SEDIMENT FILTER		EXISTING STORM DRAIN MANHOLE		PROPOSED STORM SEWER PIPE
	SINGLE-ROW SILT FENCE		EXISTING SANITARY GRAVITY SEWER		
	CHAIN LINK FENCE		EXISTING SANITARY SEWER MANHOLE		
	EXISTING SPOT ELEVATION		EXISTING WATER MAIN		
	EXISTING TREE TO BE REMOVED		EXISTING FIRE HYDRANT ASSEMBLY		
			EXISTING LIGHT POLE		



SITE PLAN

CONSULTANT:



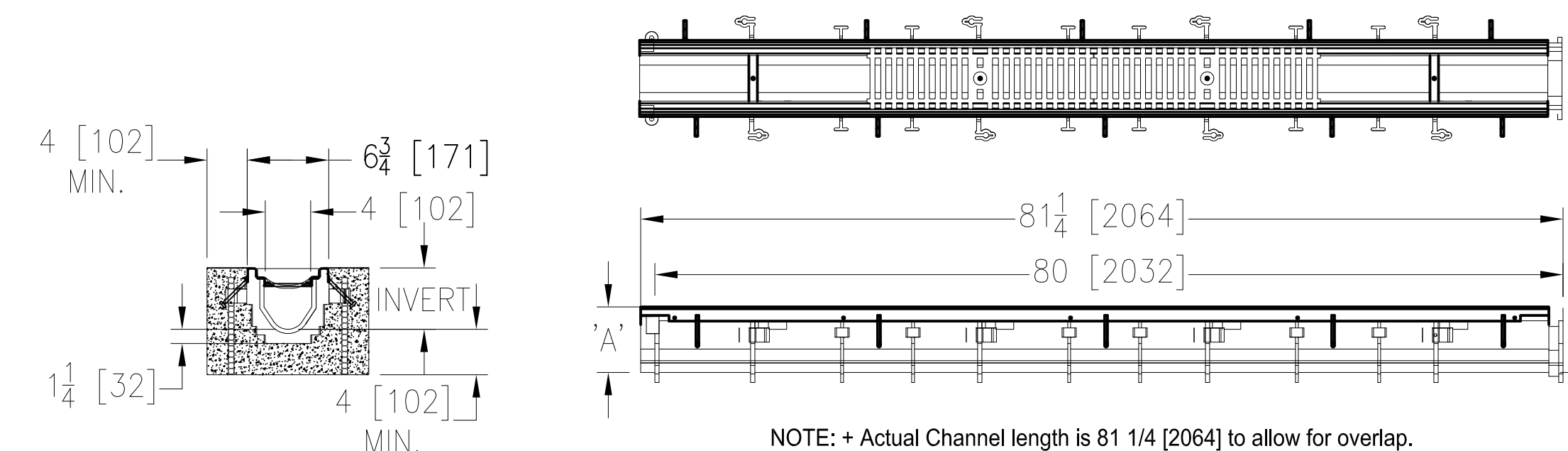
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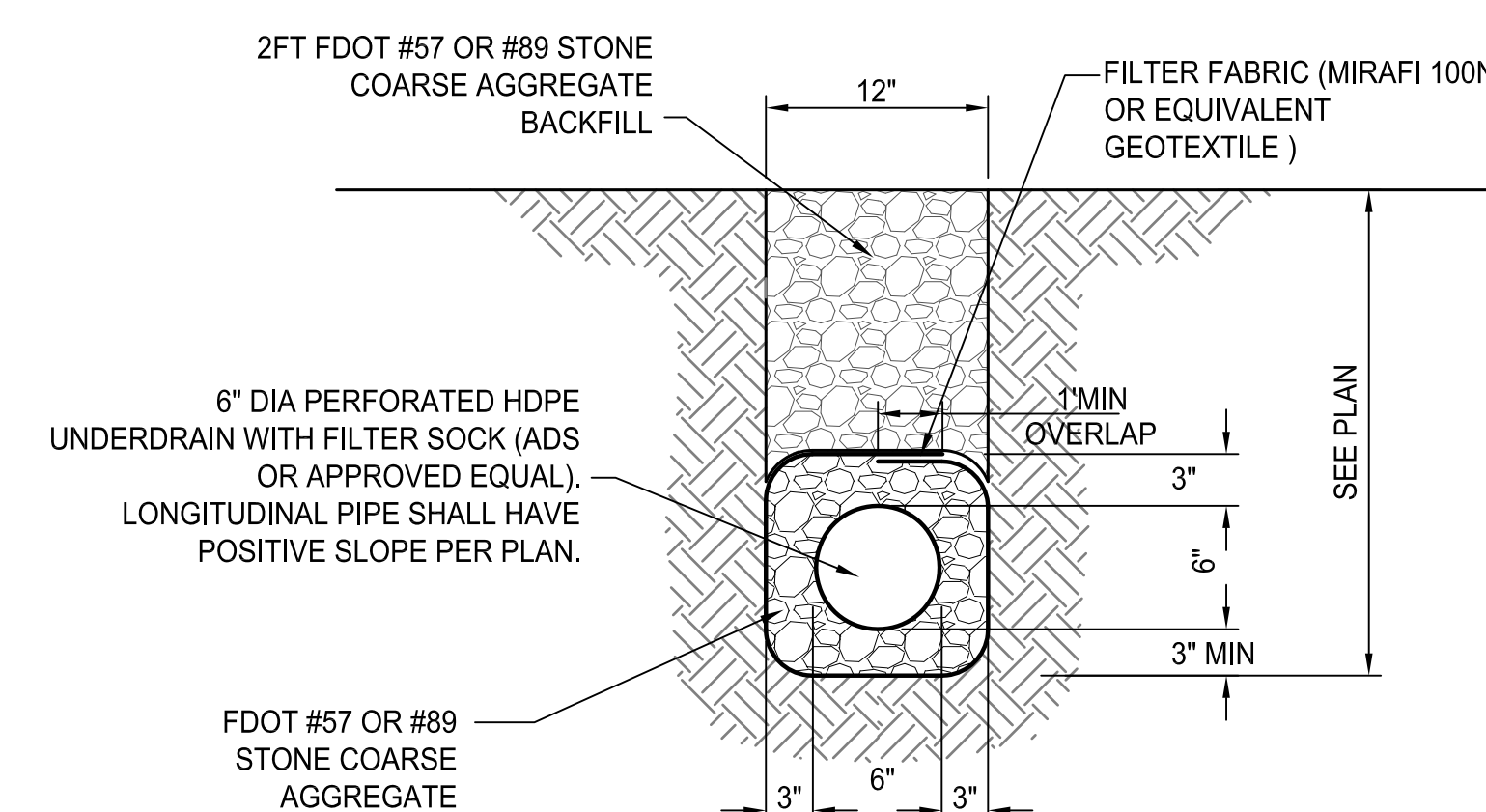
PROJECT NAME:

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9800 International Drive Orlando, FL 32819
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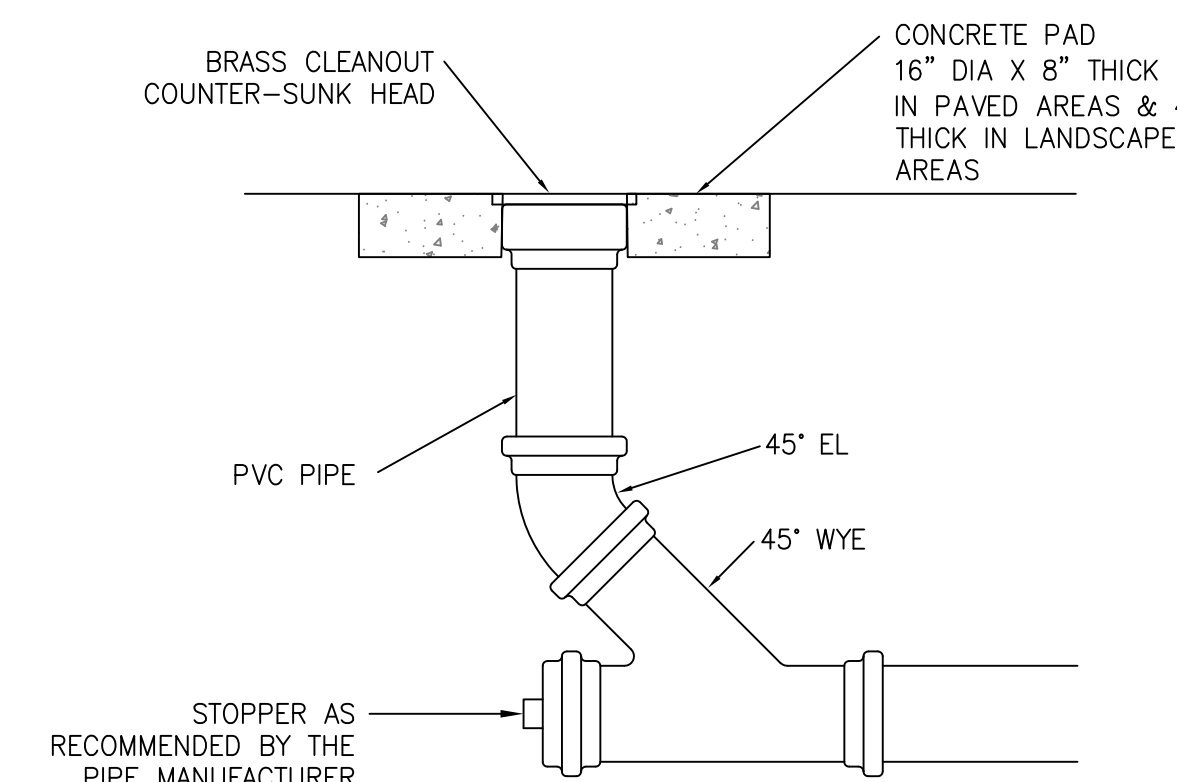
ZURN Z886 HD NO. 8602 W/ U6 NO-HUB BOTTOM OUTLET AND H=20
LOADING GRATE. 4,000 PSI FIBER REINFORCED CONCRETE ENCASUREMENT.



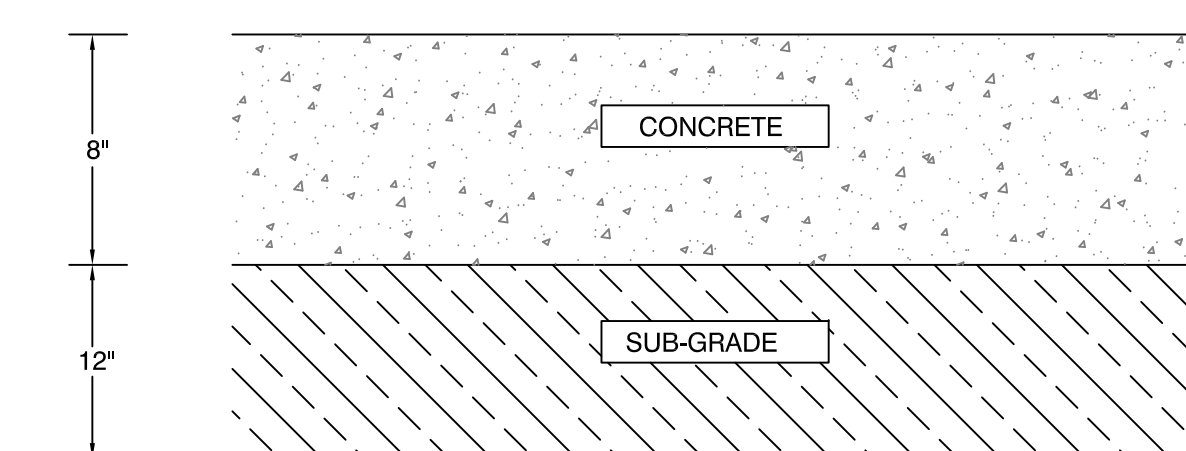
TRENCH DRAIN
NTS



6" SOCK DRAIN SECTION
NTS



STORM WATER CLEANOUT
NTS

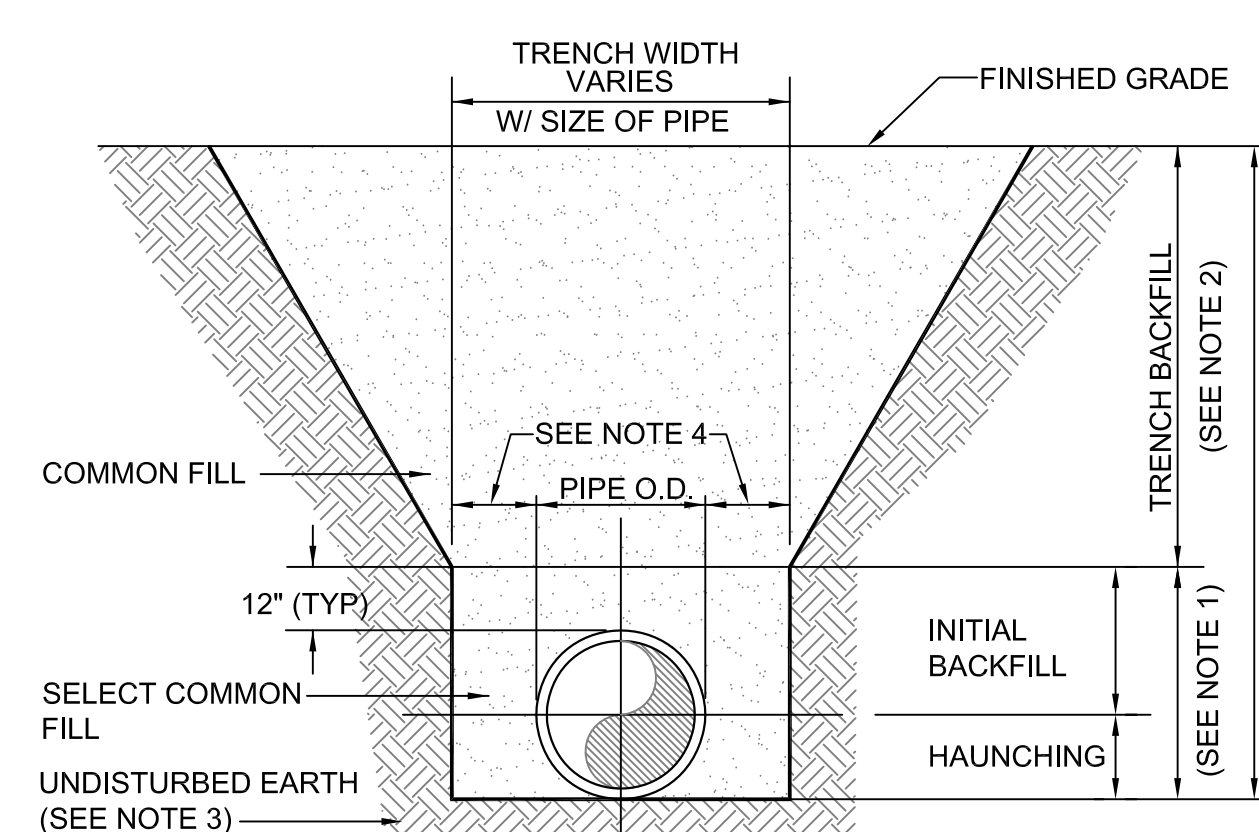


CONCRETE 8" THICKNESS, 4,000 PSI CONC. MIN 28 DAY COMPRESSIVE STRENGTH W/ FIBER MESH @ 1.5 LBS/CY.
SUB-GRADE 12" COMPACTED SUB-GRADE LBR 40 COMPACTED TO 98% AASHTO T-180

CONCRETE PAVEMENT SECTION
NTS

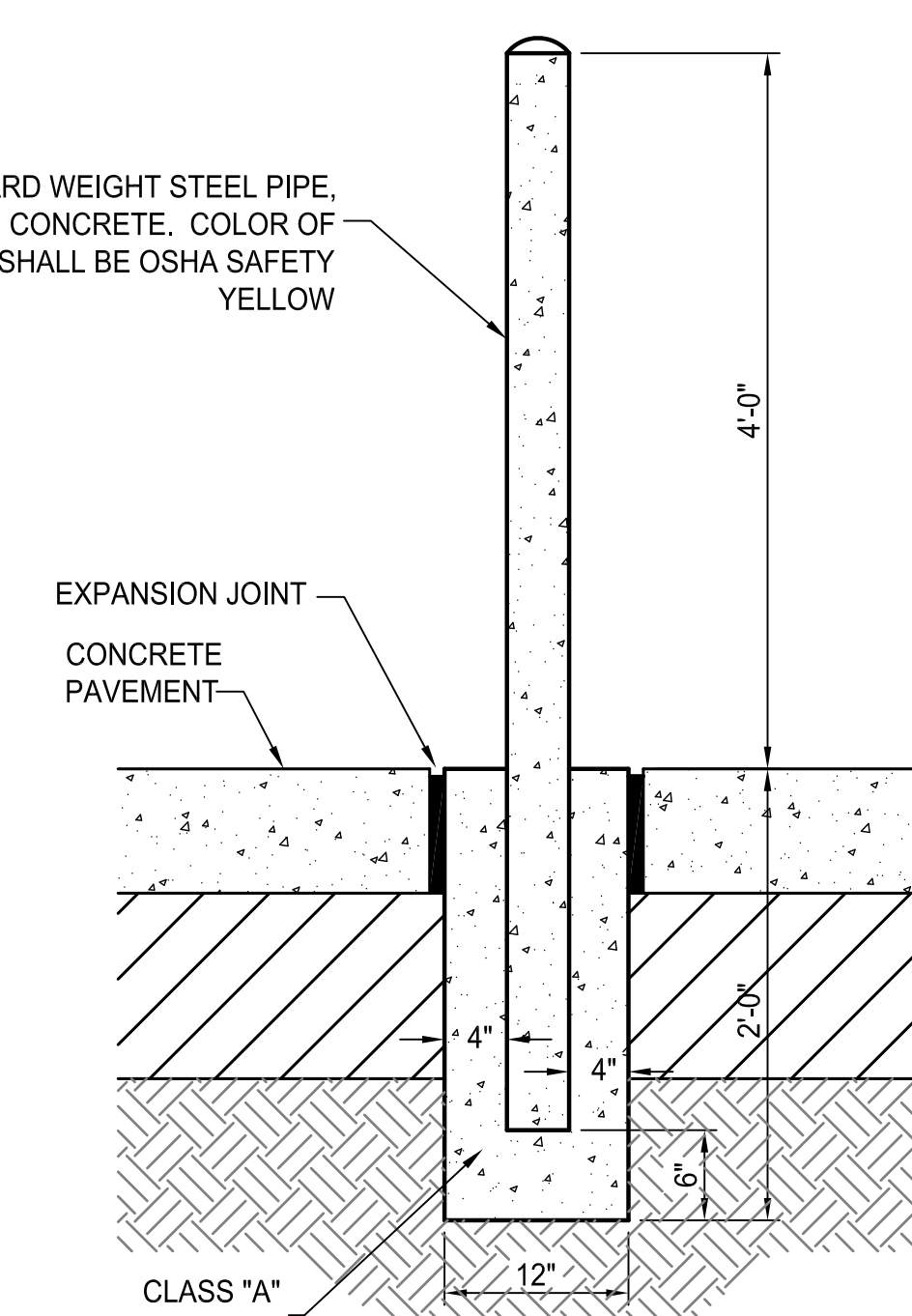
ORANGE COUNTY UTILITIES
STANDARDS AND CONSTRUCTION SPECIFICATIONS MANUAL

APPENDIX A STANDARD DRAWINGS GENERAL
DATE: February 11, 2011 BEDDING AND TRENCHING - TYPE B FIGURE A102

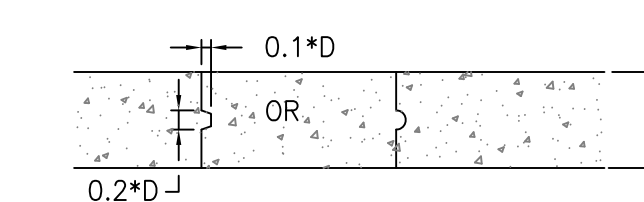


- NOTES:
1. INITIAL BACKFILL AND HAUNCHING: SELECT COMMON FILL COMPACTED TO 95% (98% UNDER PAVEMENT) OF THE MAXIMUM DENSITY AS PER AASHTO T-180.
 2. TRENCH BACKFILL: COMMON FILL COMPACTED TO 95% (98% UNDER PAVEMENT) OF THE MAXIMUM DENSITY AS PER AASHTO T-180.
 3. PIPE BEDDING UTILIZING SELECT COMMON FILL OR BEDDING ROCK IN ACCORDANCE WITH TYPE A BEDDING AND TRENCHING DETAIL MAY BE REQUIRED AS DIRECTED BY UTILITIES.
 4. 15" MAX. (12" MIN.) FOR PIPE DIAMETER LESS THAN 24" AND 24" MAX (12" MIN) FOR PIPE DIAMETER 24" AND LARGER.
 5. WATER SHALL NOT BE PERMITTED IN THE TRENCH DURING CONSTRUCTION.
 6. ALL PIPE TO BE INSTALLED WITH BELL FACING UPSTREAM TO THE DIRECTION OF THE FLOW.
 7. FINAL RESTORATION IN IMPROVED AREAS SHALL BE IN COMPLIANCE WITH ALL APPLICABLE REGULATIONS OF GOVERNING AGENCIES. SURFACE RESTORATION WITHIN ORANGE COUNTY RIGHT-OF-WAY SHALL COMPLY WITH REQUIREMENTS OF RIGHT-OF-WAY UTILIZATION REGULATIONS AND ROAD CONSTRUCTION SPECIFICATIONS.

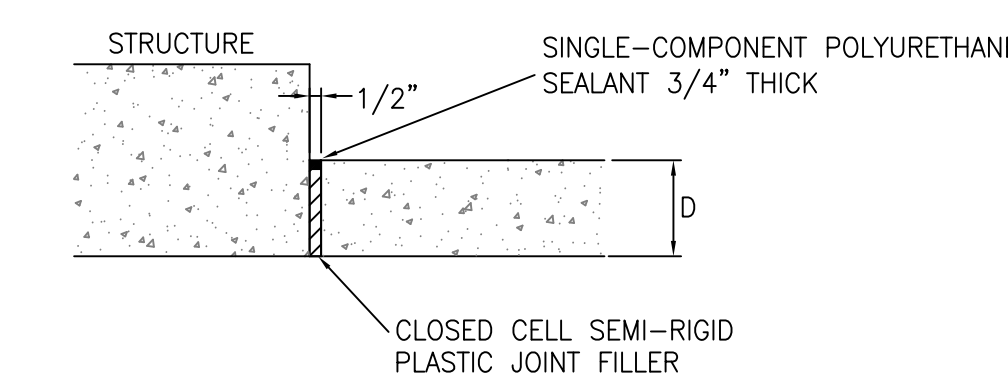
4" STANDARD WEIGHT STEEL PIPE, FILLED WITH CONCRETE. COLOR OF FINISH COAT SHALL BE OSHA SAFETY YELLOW



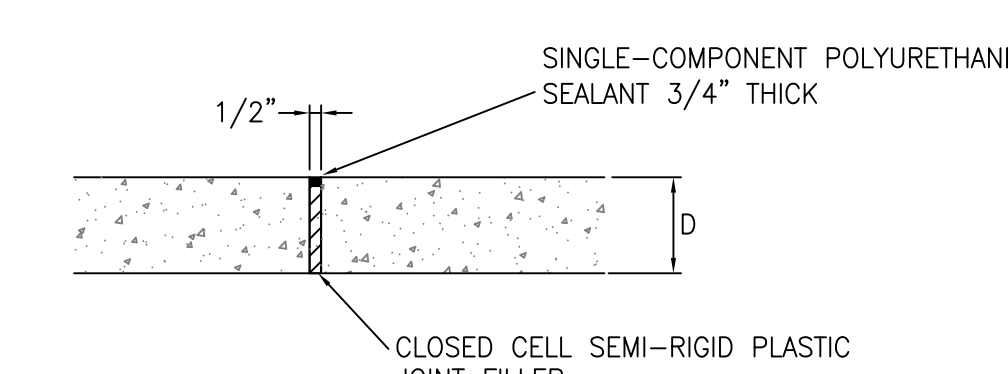
4" BOLLARD DETAIL
NTS



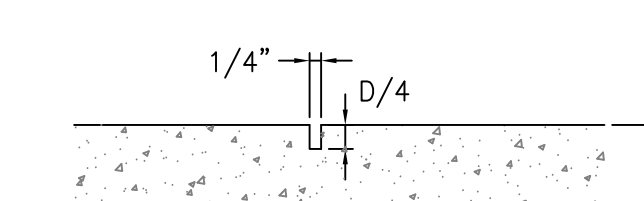
CONSTRUCTION JOINT



ISOLATION JOINT



EXPANSION JOINT



CONTROL JOINT

CONCRETE JOINT DETAILS
NTS

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SHEET TITLE:

SITE DETAILS

SHEET INFORMATION:

JOB No. 100047904	Date Issued: 04-08-2016
Designed By: JLV	Sheet Number:
Checked By: JMR	C-501
OC Review: JPW	
Phase: 1	

STORM WATER POLLUTION PREVENTION PLAN

DISTRICT'S REQUIREMENTS
<p>1. SITE DESCRIPTION</p> <p>PROJECT NAME AND LOCATION: ORANGE COUNTY CONVENTION CENTER WEST CONCOURSE PEMB BUILDING</p> <p>OWNER NAME AND ADDRESS: ORANGE COUNTY BOARD OF COUNTY COMMISSIONERS C/O ORANGE COUNTY CONVENTION CENTER 9800 INTERNATIONAL DRIVE ORLANDO, FL 32819</p> <p>A. DESCRIPTION: THIS PROJECT INCLUDES THE CONSTRUCTION OF A PRE-ENGINEERED BUILDING, WITH ASSOCIATED INFRASTRUCTURE.</p> <p>B. SOIL DISTURBING ACTIVITIES CLEARING AND GRUBBING; EARTHWORK, PAVEMENT AND GRADING; STORM SEWER, AND PREPARATION FOR FINAL PLANTING AND SODDING.</p> <p>C. SITE MAPS: SEE ATTACHED PLAN SHEETS FOR PRE & POST DEVELOPMENT GRADES, AREAS OF SOILS, DISTURBANCE, LOCATION OF SURFACE WATERS, WETLANDS, PROTECTED AREAS, MAJOR STRUCTURAL AND NONSTRUCTURAL CONTROLS AND STORM WATER DISCHARGE POINTS. SEE ATTACHED PLAN SHEETS FOR LOCATION OF TEMPORARY STABILIZATION PRACTICES AND TURBIDITY BARRIERS SEE GENERAL NOTES FOR REQUIREMENTS FOR TEMPORARY AND PERMANENT STABILIZATION.</p> <p>D. NAME OF RECEIVING WATERS: THE PROPOSED IMPROVEMENTS WILL DISCHARGE TO EXISTING STORMWATER MANAGEMENT PONDS THAT ULTIMATELY DISCHARGE TO SHINGLE CREEK.</p>
<p>2. CONTROLS</p> <p>THIS PLAN UTILIZES BEST MANAGEMENT PRACTICES TO CONTROL EROSION AND TURBIDITY CAUSED BY STORM WATER RUNOFF. AN EROSION AND TURBIDITY PLAN HAS BEEN PREPARED TO INSTRUCT THE CONTRACTOR ON PLACEMENT OF THESE CONTROLS. IT IS THE CONTRACTORS RESPONSIBILITY TO INSTALL AND MAINTAIN THE CONTROLS PER PLAN AND SHALL BE CONSISTENT WITH THE PERFORMANCE STANDARD FOR EROSION AND SEDIMENT CONTROL AND STORM WATER TREATMENT AS SET FORTH IN RULE 62-40.432 F.A.C., THE APPLICABLE STORM WATER OR ERP REQUIREMENTS OF DEP OR APPROPRIATE WMD AND THE FLORIDA DEVELOPMENT MANUAL: A GUIDE TO SOUND LAND AND WATER MANAGEMENT.</p> <p>STORM WATER MANAGEMENT A STORM WATER MANAGEMENT FACILITY IS FOR THE PROPOSED CONSTRUCTION. THIS IS IN ACCORDANCE WITH THE REQUIREMENTS SET FORTH BY THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION FOR THIS TYPE OF DEVELOPMENT AT THE TIME OF PERMITTING.</p>
<p>3. TIMING OF CONTROLS/MEASURES</p> <p>REFER TO "CONTRACTOR'S RESPONSIBILITY" FOR THE TIMING OF CONTROL/MEASURES.</p>
<p>4. POLLUTION PREVENTION PLAN CERTIFICATION</p> <p>I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED, BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.</p> <p>SIGNED: _____ ATKINS NORTH AMERICA, INC.</p> <p>DATED: _____</p> <p>SIGNED: _____ ORANGE COUNTY CONVENTION CENTER OFFICE OF CAPITAL PLANNING</p> <p>DATED: _____</p>

CONTRACTOR'S REQUIREMENTS															
<p>1. GENERAL</p> <p>THE CONTRACTOR SHALL AT A MINIMUM IMPLEMENT THE CONTRACTUAL REQUIREMENTS OUTLINED BELOW AND THOSE MEASURES SHOWN ON THE EROSION AND TURBIDITY CONTROL PLAN. IN ADDITION THE CONTRACTOR SHALL UNDERTAKE ADDITIONAL MEASURES REQUIRED TO BE IN COMPLIANCE WITH APPLICABLE PERMIT CONDITIONS AND STATE WATER QUALITY STANDARDS, DEPENDING ON THE NATURE OF MATERIALS AND METHODS OF CONSTRUCTION THE CONTRACTOR MAY BE REQUIRED TO ADD FLOCCULANTS TO THE STORMWATER SYSTEM PRIOR TO PLACING THE SYSTEM INTO OPERATION.</p>															
<p>2. SEQUENCE OF MAJOR ACTIVITIES:</p> <p>THE ORDER OF ACTIVITIES WILL BE AS FOLLOWS:</p> <ol style="list-style-type: none"> INSTALL SILT FENCES AND TURBIDITY BARRIERS AS REQUIRED DEMOLISH, CLEAR AND GRUB AS REQUIRED PERFORM PRELIMINARY GRADING ON SITE AS REQUIRED INSTALL UTILITIES, DRAINAGE STRUCTURES AND INLET SEDIMENT FILTERS STABILIZE DENUDED AREAS AND STOCKPILES WITHIN 48 HOURS OF DISTURBANCE CONSTRUCT BUILDINGS AND OTHER SITE IMPROVEMENTS COMPLETE GRADING AND INSTALL PERMANENT SOO AND PLANTING REMOVE ACCUMULATED SEDIMENT FROM BASINS AS REQUIRED 															
<p>3. TIMING OF CONTROLS/MEASURES</p> <p>AS INDICATED IN THE SEQUENCE OF MAJOR ACTIVITIES, SILT FENCES WILL BE CONSTRUCTED PRIOR TO CLEARING OR GRADING. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICAL PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. ONCE CONSTRUCTION ACTIVITY CEASES PERMANENTLY IN AN AREA, THAT AREA WILL BE STABILIZED PERMANENTLY IN ACCORDANCE WITH THE PLANS. AFTER THE ENTIRE SITE IS STABILIZED, ACCUMULATED SEDIMENT WILL BE REMOVED PRIOR TO PLACING STORM WATER SYSTEM INTO SERVICE.</p>															
<p>4. CONTROLS</p> <p>IN THE EVENT THAT EROSION PREVENTION AND CONTROL DEVICES SHOWN IN THE EROSION CONTROL PLAN PROVE NOT TO BE EFFECTIVE, ALTERNATE METHODS FOR MAINTAINING STATE WATER QUALITY STANDARDS FOR DISCHARGE FROM THE CONSTRUCTION SITE WILL BE REQUIRED. ALL ALTERNATE EROSION PREVENTION AND CONTROL DEVICES MUST BE REVIEWED AND APPROVED BY COMPLIANCE PERSONNEL PRIOR TO PLACEMENT.</p> <p>ALL EROSION PREVENTION AND CONTROL MEASURES MUST BE INSPECTED AND APPROVED BY COMPLIANCE PERSONNEL PRIOR TO ANY CONSTRUCTION ACTIVITIES. REMOVAL OF THESE SAME EROSION CONTROLS AND PREVENTION MEASURES MAY BE DONE ONLY AFTER AUTHORIZATION IS OBTAINED FROM COMPLIANCE PERSONNEL. ANY DEVIATION FROM THIS PROCEDURE MAY RESULT IN AN IMMEDIATE REQUIREMENT FOR WORK STOPPAGE.</p> <p>COMPLIANCE PERSONNEL MAY ELECT TO RESTRICT OR PROHIBIT CERTAIN EROSION CONTROL BEST MANAGEMENT PRACTICES DUE TO POOR PERFORMANCE OR BECAUSE THE DEVICE(S) MAY INCREASE ENVIRONMENTAL DEGRADATION. IT IS THE RESPONSIBILITY OF THE LANDOWNER OR ITS DESIGNEE TO INQUIRE ABOUT THESE RESTRICTIONS.</p>															
<p>IT IS THE CONTRACTORS RESPONSIBILITY TO IMPLEMENT THE EROSION AND TURBIDITY CONTROLS AS SHOWN ON THE PLAN SHEETS. IT IS ALSO THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THESE CONTROLS ARE PROPERLY INSTALLED, MAINTAINED AND FUNCTIONING PROPERLY TO PREVENT TURBID OR POLLUTED WATER FROM LEAVING THE PROJECT SITE. THE CONTRACTOR WILL ADJUST THE EROSION AND TURBIDITY CONTROLS SHOWN ON THE PLAN SHEETS AND ADD ADDITIONAL CONTROL MEASURES, AS REQUIRED, TO ENSURE THE SITE MEETS ALL FEDERAL, STATE AND LOCAL EROSION AND TURBIDITY CONTROL REQUIREMENTS. THE FOLLOWING BEST MANAGEMENT PRACTICES WILL BE IMPLEMENTED BY THE CONTRACTOR AS REQUIRED BY THE EROSION AND TURBIDITY CONTROL PLAN AND AS REQUIRED TO MEET THE EROSION AND TURBIDITY REQUIREMENTS IMPOSED ON THE PROJECT SITE BY THE REGULATORY AGENCIES.</p>															
<p>A. EROSION AND SEDIMENT CONTROLS STABILIZATION PRACTICES</p> <ol style="list-style-type: none"> SYNTHETIC BALE BARRIER: SYNTHETIC BALE BARRIERS CAN BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND STREAM EROSION WITH THE FOLLOWING LIMITATIONS: <ol style="list-style-type: none"> WHERE THE MAXIMUM SLOPE BEHIND THE BARRIER IS 33 PERCENT. IN MINOR SWALES OR DITCH LINES WHERE THE MAXIMUM CONTRIBUTING DRAINAGE AREA IS NO GREATER THAN 2 ACRES. WHERE EFFECTIVENESS IS REQUIRED FOR LESS THAN 3 MONTHS. FILTER FABRIC BARRIER: FILTER FABRIC BARRIERS CAN BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WITH THE FOLLOWING LIMITATIONS: <ol style="list-style-type: none"> WHERE THE MAXIMUM SLOPE BEHIND THE BARRIER IS 33 PERCENT. IN MINOR SWALES OR DITCH LINES WHERE THE MAXIMUM CONTRIBUTING DRAINAGE AREA IS NO GREATER THAN 2 ACRES. BRUSH BARRIER WITH FILTER FABRIC: BRUSH BARRIER MAY BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WHERE ENOUGH RESIDUE MATERIAL IS AVAILABLE ON SITE. LEVEL SPREADER: A LEVEL SPREADER MAY BE USED WHERE SEDIMENT-FREE STORM RUNOFF IS INTERCEPTED AND DIVERTED AWAY FROM THE GRADDED AREAS ONTO UNDISTURBED STABILIZED AREAS. THIS PRACTICE APPLIES ONLY IN THOSE SITUATIONS WHERE THE SPREADER CAN BE CONSTRUCTED ON UNDISTURBED SOIL AND THE AREA BELOW THE LEVEL LIP IS STABILIZED. THE WATER SHOULD NOT BE ALLOWED TO RECONCENTRATE AFTER RELEASE. STOCKPILING MATERIAL: NO EXCAVATED MATERIAL SHALL BE STOCKPILED IN SUCH A MANNER AS TO DIRECT RUNOFF DIRECTLY OFF THE PROJECT SITE INTO ANY ADJACENT WATER BODY OR STORMWATER COLLECTION FACILITY. EXPOSED AREA LIMITATION: THE SURFACE AREA OF OPEN, RAW ERODIBLE SOIL EXPOSED BY CLEARING AND GRUBBING OPERATIONS OR EXCAVATION AND FILLING OPERATIONS SHALL NOT EXCEED 10 ACRES. THIS REQUIREMENT MAY BE WAIVED FOR LARGE PROJECTS WITH AN EROSION CONTROL PLAN WHICH DEMONSTRATES THAT OPENING OF ADDITIONAL AREAS WILL NOT SIGNIFICANTLY AFFECT OFF-SITE DEPOSIT OF SEDIMENTS. INLET PROTECTION: INLETS AND CATCH BASINS WHICH DISCHARGE DIRECTLY OFF-SITE SHALL BE PROTECTED FROM SEDIMENT-LADEN STORM RUNOFF UNTIL THE COMPLETION OF ALL CONSTRUCTION OPERATIONS THAT MAY CONTRIBUTE SEDIMENT TO THE INLET. 															
<p>5. CONTROLS FOR OTHER POTENTIAL POLLUTANTS</p> <p>WASTE DISPOSAL</p> <ol style="list-style-type: none"> WASTE MATERIALS: ALL WASTE MATERIALS EXCEPT LAND CLEARING DEBRIS SHALL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER. THE DUMPSTER WILL MEET ALL LOCAL AND STATE SOLID WASTE MANAGEMENT REGULATIONS. THE DUMPSTER WILL BE EMPTIED AS NEEDED AND THE TRASH WILL BE HAULED TO A STATE APPROVED LANDFILL. ALL PERSONNEL WILL BE INSTRUCTED REGARDING THE CORRECT PROCEDURE FOR WASTE DISPOSAL. NOTICES STATING THESE PRACTICES WILL BE POSTED AT THE CONSTRUCTION SITE BY THE CONSTRUCTION SUPERINTENDENT. THE INDIVIDUAL WHO MANAGES THE DAY-TO-DAY SITE OPERATIONS, WILL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED. OFFSITE VEHICLE TRACKING: THE PAVED STREET ADJACENT TO THE SITE ENTRANCE WILL BE SWEEP DAILY TO REMOVE ANY EXCESS MUD, DIRT OR ROCK TRACKED FROM THE SITE. DUMP TRUCKS AND HAULING MATERIAL FROM THE CONSTRUCTION SITE WILL BE COVERED WITH A TARP/AULIN. SANITARY WASTE: ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS AS NEEDED TO PREVENT POSSIBLE SPILLAGE. THE WASTE WILL BE COLLECTED AND DEPOSED OF IN ACCORDANCE WITH STATE AND LOCAL WASTE DISPOSAL REGULATIONS FOR SANITARY SEWER OR SEPTIC SYSTEMS. HAZARDOUS WASTE: ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL OR STATE REGULATION OR BY THE MANUFACTURER. SITE PERSONNEL WILL BE INSTRUCTED IN THESE PRACTICES AND THE SITE SUPERINTENDENT, THE INDIVIDUAL WHO MANAGES DAY-TO-DAY SITE OPERATIONS, WILL BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED. 															
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<p>7. SPILL PREVENTION</p> <p>MATERIAL MANAGEMENT PRACTICES</p> <p>THE FOLLOWING ARE THE MATERIAL MANAGEMENT PRACTICES THAT WILL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORM WATER RUNOFF.</p> <p>GOOD HOUSEKEEPING</p> <p>THE FOLLOWING GOOD HOUSEKEEPING PRACTICES WILL BE FOLLOWED ONSITE DURING THE CONSTRUCTION PERIOD.</p> <ul style="list-style-type: none"> AN EFFORT WILL BE MADE TO STORE ONLY ENOUGH PRODUCT REQUIRED TO DO THE JOB. ALL MATERIALS STORED ONSITE WILL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR APPROPRIATE CONTAINERS AND, IF POSSIBLE, UNDER A ROOF OR OTHER ENCLOSURE. PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE ORIGINAL MANUFACTURER'S LABEL. SUBSTANCES WILL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER. WHENEVER POSSIBLE, ALL OF A PRODUCT WILL BE USED UP BEFORE DISPOSING OF THE CONTAINER. MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL WILL BE FOLLOWED. THE SITE SUPERINTENDENT WILL INSPECT DAILY TO ENSURE MATERIALS ONSITE RECEIVE PROPER USE AND DISPOSAL. <p>HAZARDOUS PRODUCTS</p> <p>THESE PRACTICES ARE USED TO REDUCE THE RISKS ASSOCIATED WITH HAZARDOUS MATERIALS.</p> <ul style="list-style-type: none"> PRODUCTS WILL BE KEPT IN ORIGINAL CONTAINERS UNLESS THEY ARE NOT RESEALABLE. ORIGINAL LABELS AND MATERIAL SAFETY DATA WILL BE RETAINED; THEY CONTAIN IMPORTANT PRODUCT INFORMATION. IF SURPLUS PRODUCT MUST BE DISPOSED OF, MANUFACTURER'S OR LOCAL AND STATE RECOMMENDED METHODS FOR PROPER DISPOSAL WILL BE FOLLOWED. <p>PRODUCT SPECIFIC PRACTICES</p> <p>THE FOLLOWING PRODUCT SPECIFIC PRACTICES WILL BE FOLLOWED ONSITE:</p> <p>PETROLEUM PRODUCTS</p> <p>ALL ONSITE VEHICLES WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE. PETROLEUM PRODUCTS WILL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. ANY ASPHALT SUBSTANCES USED ONSITE WILL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.</p> <p>FERTILIZERS</p> <p>FERTILIZERS USED WILL BE APPLIED ONLY IN THE MINIMUM AMOUNTS RECOMMENDED BY THE MANUFACTURER. ONCE APPLIED, FERTILIZER WILL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORM WATER. STORAGE WILL BE IN A COVERED AREA. THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER WILL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS.</p> <p>PAINTS</p> <p>ALL CONTAINERS WILL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. EXCESS PAINT WILL NOT BE DISCHARGED TO THE STORM SEWER SYSTEM BUT WILL BE PROPERLY DISPOSED OF ACCORDING TO MANUFACTURER'S INSTRUCTIONS OR STATE AND LOCAL REGULATIONS.</p> <p>CONCRETE TRUCKS</p> <p>CONCRETE TRUCKS WILL NOT BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ON THE SITE.</p> <p>SPILL CONTROL PRACTICES</p> <p>IN ADDITION TO THE GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES DISCUSSED IN THE PREVIOUS SECTIONS OF THIS PLAN, THE FOLLOWING PRACTICES WILL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP:</p> <p>MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED ON SITE AND SITE PERSONNEL WILL BE MADE AWARE OF THE PROCEDURES AND THE LOCATION OF THE INFORMATION AND CLEANUP SUPPLIES.</p> <p>MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREA ONSITE. EQUIPMENT AND MATERIALS WILL INCLUDE BUT NOT BE LIMITED TO BROOMS, DUST PANS, MOPS, RAGS, GLOVES, GOGGLES, LIQUID ABSORBENT (i.e. KITTY LITTER OR EQUAL), SAND, SAWDUST, AND PLASTIC AND METAL TRASH CONTAINERS SPECIFICALLY FOR THIS PURPOSE.</p> <p>ALL SPILLS WILL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY.</p> <p>THE SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.</p> <p>SPILL OF TOXIC OR HAZARDOUS MATERIAL WILL BE REPORTED TO THE APPROPRIATE STATE OR LOCAL GOVERNMENT AGENCY, REGARDLESS OF THE SIZE OF THE SPILL.</p> <p>THE SPILL PREVENTION PLAN WILL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL FROM REOCCURRING AND HOW TO CLEAN UP THE SPILL IF THERE IS ANOTHER ONE. A DESCRIPTION OF THE SPILL, WHAT CAUSED IT, AND THE CLEANUP MEASURES WILL ALSO BE INCLUDED.</p> <p>THE SITE SUPERINTENDENT RESPONSIBLE FOR THE DAY-TO-DAY SITE OPERATIONS, WILL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR. HE/SHE WILL DESIGNATE AT LEAST ONE OTHER SITE PERSONNEL WHO WILL RECEIVE SPILL PREVENTION AND CLEANUP TRAINING. THESE INDIVIDUALS WILL EACH BECOME RESPONSIBLE FOR A PARTICULAR PHASE OF PREVENTION AND CLEANUP. THE NAMES OF RESPONSIBLE SPILL PERSONNEL WILL BE POSTED IN THE MATERIAL STORAGE AREA AND IF APPLICABLE, IN THE OFFICE TRAILER ONSITE.</p>															
<p>8. MAINTENANCE/INSPECTION PROCEDURES</p> <p>EROSION AND SEDIMENT CONTROL INSPECTION AND MAINTENANCE PRACTICES</p> <p>THE FOLLOWING ARE INSPECTION AND MAINTENANCE PRACTICES THAT WILL BE USED TO MAINTAIN EROSION AND SEDIMENT CONTROLS.</p> <ul style="list-style-type: none"> ALL CONTROL MEASURES WILL BE INSPECTED BY THE SUPERINTENDENT, THE PERSON RESPONSIBLE FOR THE DAY TO DAY SITE OPERATION OR SOMEONE APPOINTED BY THE SUPERINTENDENT, AT LEAST ONCE A WEEK AND WITHIN 24 HOURS OF ANY STORM EVENT OF 0.50 INCHES OR GREATER. ALL TURBIDITY CONTROL MEASURES WILL BE MAINTAINED IN GOOD WORKING ORDER. IF A REPAIR IS NECESSARY, IT WILL BE INITIATED WITHIN 24 HOURS OF REPORT. BUILT UP SEDIMENT WILL BE REMOVED FROM SILT FENCE WHEN IT HAS REACHED ONE-THIRD THE HEIGHT OF THE FENCE. SILT FENCE WILL BE INSPECTED FOR DEPTH OF SEDIMENT, TEARS, TO SEE IF THE FABRIC IS SECURELY ATTACHED TO THE FENCE POSTS, AND TO SEE THAT THE FENCE POSTS ARE FIRMLY IN THE GROUND. THE SEDIMENT BASINS WILL BE INSPECTED FOR THE DEPTH OF SEDIMENT, AND BUILT UP SEDIMENT WILL BE REMOVED WHEN IT REACHES 10 PERCENT OF THE DESIGN CAPACITY OR AT THE END OF THE JOB, WHICHEVER COMES FIRST. DIVERSION DIKES/SWALES WILL BE INSPECTED AND ANY BREACHES PROMPTLY REPAIRED. TEMPORARY AND PERMANENT SEEDING AND PLANTING WILL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND HEALTHY GROWTH. A MAINTENANCE INSPECTION REPORT WILL BE MADE AFTER EACH INSPECTION. A COPY OF THE REPORT FORM TO BE COMPLETED BY THE CONTRACTOR'S INSPECTOR. THE REPORTS WILL BE KEPT ON SITE DURING CONSTRUCTION AND AVAILABLE UPON REQUEST TO THE OWNER, ENGINEER OR ANY FEDERAL, STATE OR LOCAL AGENCY APPROVING SEDIMENT AND EROSION PLANS, OR STORM WATER MANAGEMENT PLANS. THE REPORTS SHALL BE MADE AND RETAINED AS PART OF THE STORM WATER POLLUTION PREVENTION PLAN FOR AT LEAST THREE YEARS FROM THE DATE THAT THE SITE IS FINALLY STABILIZED AND THE NOTICE OF TERMINATION IS SUBMITTED THE REPORTS SHALL IDENTIFY ANY INCIDENTS OF NONCOMPLIANCE. THE SITE SUPERINTENDENT WILL SELECT UP TO THREE INDIVIDUALS WHO WILL BE RESPONSIBLE FOR INSPECTIONS, MAINTENANCE AND REPAIR ACTIVITIES, AND FILLING OUT THE INSPECTION AND MAINTENANCE REPORT. PERSONNEL SELECTED FOR INSPECTION AND MAINTENANCE RESPONSIBILITIES WILL RECEIVE TRAINING FROM THE SITE SUPERINTENDENT. THEY WILL BE TRAINED IN ALL THE INSPECTION AND MAINTENANCE PRACTICES NECESSARY FOR KEEPING THE EROSION AND SEDIMENT CONTROLS USED ONSITE IN GOOD WORKING ORDER. 															
<p>9. CERTIFICATION STATEMENT</p> <p>ALL CONTRACTORS AND SUBCONTRACTORS SHALL SIGN A COPY OF THE FOLLOWING CERTIFICATION STATEMENT BEFORE CONDUCTING ANY ACTIVITIES AT THE SITE.</p> <p>I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND, AND SHALL COMPLY WITH, THE TERMS AND CONDITIONS OF THE STATE OF FLORIDA GENERAL PERMIT FOR STORM WATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES AND THIS STORM WATER POLLUTION PREVENTION PLAN PREPARED THEREUNDER.</p>															

<p>8. TEMPORARY SEEDING: AREAS OPENED BY CONSTRUCTION OPERATIONS AND THAT ARE NOT ANTICIPATED TO BE RE-EXCAVATED OR DRESSED AND RECEIVE FINAL GRASSING TREATMENT WITHIN 30 DAYS SHALL BE SEEDED WITH A QUICK GROWING GRASS SPECIES WHICH WILL PROVIDE AN EARLY COVER DURING THE SEASON IN WHICH IT IS PLANTED AND WILL NOT LATER COMPETE WITH THE PERMANENT GRASSING.</p> <p>9. TEMPORARY SEEDING AND MULCHING: SLOPES STEEPER THAN 6:1 THAT FALL WITHIN THE CATEGORY ESTABLISHED IN PARAGRAPH 8 ABOVE SHALL ADDITIONALLY RECEIVE MULCHING OF APPROXIMATELY 2 INCHES LOOSE MEASURE OF MULCH MATERIAL OUT INTO THE SOIL OF THE SEEDED AREA ADEQUATE TO PREVENT MOVEMENT OF SEED AND MULCH.</p> <p>10. TEMPORARY GRASSING: THE SEEDER OR SEEDER AND MULCHED AREA(S) SHALL BE ROLLED AND WATERED OR HYDROMULCHED OR OTHER SUITABLE METHODS IF REQUIRED TO ASSURE OPTIMUM GROWING CONDITIONS FOR THE ESTABLISHMENT OF A GOOD GRASS COVER. TEMPORARY GRASSING SHALL BE THE SAME MIX & AMOUNT REQUIRED FOR PERMANENT GRASSING IN THE CONTRACT SPECIFICATIONS.</p> <p>11. TEMPORARY REGRASSING: IF, AFTER 14 DAYS FROM SEEDING, THE TEMPORARY GRASSED AREAS HAVE NOT ATTAINED A MINIMUM OF 75 PERCENT GOOD GRASS COVER, THE AREA WILL BE REWORKED AND ADDITIONAL SEED APPLIED SUFFICIENT TO ESTABLISH THE DESIRED VEGETATIVE COVER.</p> <p>12. MAINTENANCE: ALL FEATURES OF THE PROJECT DESIGNED AND CONSTRUCTED TO PREVENT EROSION AND SEDIMENT SHALL BE MAINTAINED DURING THE LIFE OF THE CONSTRUCTION SO AS TO FUNCTION AS THEY WERE ORIGINALLY DESIGNED AND CONSTRUCTED.</p> <p>13. PERMANENT EROSION CONTROL: THE EROSION CONTROL FACILITIES OF THE PROJECT SHOULD BE DESIGNED TO MINIMIZE THE IMPACT ON THE OFFSITE FACILITIES.</p> <p>14. PERMANENT SEEDING: ALL AREAS WHICH HAVE BEEN DISTURBED BY CONSTRUCTION WILL, AS A MINIMUM, BE SEEDDED. THE SEEDING MIX MUST PROVIDE BOTH LONG-TERM VEGETATION AND RAPID GROWTH. SEASONAL VEGETATION SLOPES STEEPER THAN 4:1 SHALL BE SEEDDED AND MULCHED OR SOODED.</p>															
<p>B. STRUCTURAL PRACTICES</p> <ol style="list-style-type: none"> TEMPORARY DIVERSION DIKE: TEMPORARY DIVERSION DIKES MAY BE USED TO DIVERT RUNOFF THROUGH A SEDIMENT-TRAPPING FACILITY. TEMPORARY SEDIMENT TRAP: A SEDIMENT TRAP SHALL BE INSTALLED IN A DRAINAGEWAY AT A STORM DRAIN INLET OR AT OTHER POINTS OF DISCHARGE FROM A DISTURBED AREA. THE FOLLOWING SEDIMENT TRAPS MAY BE CONSTRUCTED EITHER INDEPENDENTLY OR IN CONJUNCTION WITH A TEMPORARY DIVERSION DIKE. <ol style="list-style-type: none"> BLOCK & GRAVEL SEDIMENT FILTER - THIS PROTECTION IS APPLICABLE WHERE HEAVY FLOWS AND/OR WHERE AN OVERFLOW CAPACITY IS NECESSARY TO PREVENT EXCESSIVE PONDING AROUND THE STRUCTURE. GRAVEL SEDIMENT TRAP - THIS PROTECTION IS APPLICABLE WHERE HEAVY CONCENTRATED FLOWS ARE EXPECTED, BUT NOT WHERE PONDING AROUND THE STRUCTURE WOULD CAUSE EXCESSIVE INCONVENIENCE OR DAMAGE TO ADJACENT STRUCTURES AND UNPROTECTED AREAS. DROP INLET SEDIMENT TRAP - THIS PROTECTION IS APPLICABLE WHERE THE INLET DRAINS A RELATIVELY FLAT AREA (S < 5%) AND WHERE SHEET OR OVERLAND FLOWS (Q < 0.5 CFS) ARE TYPICAL. THIS METHOD SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS SUCH AS IN STREET OR HIGHWAY MEDIANS. OUTLET PROTECTION: APPLICABLE TO THE OUTLETS OF ALL PIPES AND PAVED CHANNEL SECTIONS WHERE THE FLOW COULD CAUSE EROSION AND SEDIMENT PROBLEM TO THE RECEIVING WATER BODY. SILT FENCES AND ARE TO BE INSTALLED IMMEDIATELY DOWNSTREAM OF THE DISCHARGING STRUCTURE AS SHOWN ON THE OUTLET PROTECTION DETAIL. 															
<p>C. SEDIMENT BASINS</p> <p>SEDIMENT BASINS WILL BE CONSTRUCTED AT THE COMMON DRAINAGE LOCATIONS THAT SERVE AN AREA WITH 10 OR MORE DISTURBED ACRES AT ONE TIME. THE PROPOSED STORM WATER PONDS (OR TEMPORARY PONDS) WILL BE CONSTRUCTED FOR USE AS SEDIMENT BASINS. THESE SEDIMENT BASINS MUST PROVIDE A MINIMUM OF 3,600 CUBIC FEET OF STORAGE PER ACRE DRAINED UNTIL FINAL STABILIZATION OF THE SITE.</p> <p>THE 3,600 CUBIC FEET OF STORAGE AREA PER ACRE DRAINED DOES NOT APPLY TO FLOWS FROM OFFSITE AREAS AND FLOWS FROM ONSITE AREAS THAT ARE EITHER UNDISTURBED OR HAVE UNDERGROUND STORAGE. SUCH FLOWS ARE DIVERTED AROUND BOTH THE DISTURBED AREA AND THE SEDIMENT BASIN. ANY TEMPORARY SEDIMENT BASINS CONSTRUCTED MUST BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH THE SPECIFICATIONS FOR STRUCTURAL FILL. ALL SEDIMENT COLLECTED IN PERMANENT OR TEMPORARY SEDIMENT TRAPS MUST BE REMOVED UPON FINAL STABILIZATION.</p>															
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<input type="checkbox"/> Detergents	<input type="checkbox"/> Paints	<input type="checkbox"/> Metal Studs													
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<p>7. SPILL PREVENTION</p> <p>MATERIAL MANAGEMENT PRACTICES</p> <p>THE FOLLOWING ARE THE MATERIAL MANAGEMENT PRACTICES THAT WILL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORM WATER RUNOFF.</p> <p>GOOD HOUSEKEEPING</p> <p>THE FOLLOWING GOOD HOUSEKEEPING PRACTICES WILL BE FOLLOWED ONSITE DURING THE CONSTRUCTION PERIOD.</p> <ul style="list-style-type: none"> AN EFFORT WILL BE MADE TO STORE ONLY ENOUGH PRODUCT REQUIRED TO DO THE JOB. ALL MATERIALS STORED ONSITE WILL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR APPROPRIATE CONTAINERS AND, IF POSSIBLE, UNDER A ROOF OR OTHER ENCLOSURE. PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE ORIGINAL MANUFACTURER'S LABEL. SUBSTANCES WILL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER. WHENEVER POSSIBLE, ALL OF A PRODUCT WILL BE USED UP BEFORE DISPOSING OF THE CONTAINER. MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL WILL BE FOLLOWED. THE SITE SUPERINTENDENT WILL INSPECT DAILY TO ENSURE MATERIALS ONSITE RECEIVE PROPER USE AND DISPOSAL. <p>HAZARDOUS PRODUCTS</p> <p>THESE PRACTICES ARE USED TO REDUCE THE RISKS ASSOCIATED WITH HAZARDOUS MATERIALS.</p> <ul style="list-style-type: none"> PRODUCTS WILL BE KEPT IN ORIGINAL CONTAINERS UNLESS THEY ARE NOT RESEALABLE. ORIGINAL LABELS AND MATERIAL SAFETY DATA WILL BE RETAINED; THEY CONTAIN IMPORTANT PRODUCT INFORMATION. IF SURPLUS PRODUCT MUST BE DISPOSED OF, MANUFACTURER'S OR LOCAL AND STATE RECOMMENDED METHODS FOR PROPER DISPOSAL WILL BE FOLLOWED. <p>PRODUCT SPECIFIC PRACTICES</p> <p>THE FOLLOWING PRODUCT SPECIFIC PRACTICES WILL BE FOLLOWED ONSITE:</p> <p>PETROLEUM PRODUCTS</p> <p>ALL ONSITE VEHICLES WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE. PETROLEUM PRODUCTS WILL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. ANY ASPHALT SUBSTANCES USED ONSITE WILL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.</p> <p>FERTILIZERS</p> <p>FERTILIZERS USED WILL BE APPLIED ONLY IN THE MINIMUM AMOUNTS RECOMMENDED BY THE MANUFACTURER. ONCE APPLIED, FERTILIZER WILL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORM WATER. STORAGE WILL BE IN A COVERED AREA. THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER WILL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS.</p> <p>PAINTS</p> <p>ALL CONTAINERS WILL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. EXCESS PAINT WILL NOT BE DISCHARGED TO THE STORM SEWER SYSTEM BUT WILL BE PROPERLY DISPOSED OF ACCORDING TO MANUFACTURER'S INSTRUCTIONS OR STATE AND LOCAL REGULATIONS.</p> <p>CONCRETE TRUCKS</p> <p>CONCRETE TRUCKS WILL NOT BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ON THE SITE.</p> <p>SPILL CONTROL PRACTICES</p> <p>IN ADDITION TO THE GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES DISCUSSED IN THE PREVIOUS SECTIONS OF THIS PLAN, THE FOLLOWING PRACTICES WILL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP:</p> <p>MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED ON SITE AND SITE PERSONNEL WILL BE MADE AWARE OF THE PROCEDURES AND THE LOCATION OF THE INFORMATION AND CLEANUP SUPPLIES.</p> <p>MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREA ONSITE. EQUIPMENT AND MATERIALS WILL INCLUDE BUT NOT BE LIMITED TO BROOMS, DUST PANS, MOPS, RAGS, GLOVES, GOGGLES, LIQUID ABSORBENT (i.e. KITTY LITTER OR EQUAL), SAND, SAWDUST, AND PLASTIC AND METAL TRASH CONTAINERS SPECIFICALLY FOR THIS PURPOSE.</p> <p>ALL SPILLS WILL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY.</p> <p>THE SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.</p> <p>SPILL OF TOXIC OR HAZARDOUS MATERIAL WILL BE REPORTED TO THE APPROPRIATE STATE OR LOCAL GOVERNMENT AGENCY, REGARDLESS OF THE SIZE OF THE SPILL.</p> <p>THE SPILL PREVENTION PLAN WILL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL FROM REOCCURRING AND HOW TO CLEAN UP THE SPILL IF THERE IS ANOTHER ONE. A DESCRIPTION OF THE SPILL, WHAT CAUSED IT, AND THE CLEANUP MEASURES WILL ALSO BE INCLUDED.</p> <p>THE SITE SUPERINTENDENT RESPONSIBLE FOR THE DAY-TO-DAY SITE OPERATIONS, WILL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR. HE/SHE WILL DESIGNATE AT LEAST ONE OTHER SITE PERSONNEL WHO WILL RECEIVE SPILL PREVENTION AND CLEANUP TRAINING. THESE INDIVIDUALS WILL EACH BECOME RESPONSIBLE FOR A PARTICULAR PHASE OF PREVENTION AND CLEANUP. THE NAMES OF RESPONSIBLE SPILL PERSONNEL WILL BE POSTED IN THE MATERIAL STORAGE AREA AND IF APPLICABLE, IN THE OFFICE TRAILER ONSITE.</p>
<p>8. MAINTENANCE/INSPECTION PROCEDURES</p> <p>EROSION AND SEDIMENT CONTROL INSPECTION AND MAINTENANCE PRACTICES</p> <p>THE FOLLOWING ARE INSPECTION AND MAINTENANCE PRACTICES THAT WILL BE USED TO MAINTAIN EROSION AND SEDIMENT CONTROLS.</p> <ul style="list-style-type: none"> ALL CONTROL MEASURES WILL BE INSPECTED BY THE SUPERINTENDENT, THE PERSON RESPONSIBLE FOR THE DAY TO DAY SITE OPERATION OR SOMEONE APPOINTED BY THE SUPERINTENDENT, AT LEAST ONCE A WEEK AND WITHIN 24 HOURS OF ANY STORM EVENT OF 0.50 INCHES OR GREATER. ALL TURBIDITY CONTROL MEASURES WILL BE MAINTAINED IN GOOD WORKING ORDER. IF A REPAIR IS NECESSARY, IT WILL BE INITIATED WITHIN 24 HOURS OF REPORT. BUILT UP SEDIMENT WILL BE REMOVED FROM SILT FENCE WHEN IT HAS REACHED ONE-THIRD THE HEIGHT OF THE FENCE. SILT FENCE WILL BE INSPECTED FOR DEPTH OF SEDIMENT, TEARS, TO SEE IF THE FABRIC IS SECURELY ATTACHED TO THE FENCE POSTS, AND TO SEE THAT THE FENCE POSTS ARE FIRMLY IN THE GROUND. THE SEDIMENT BASINS WILL BE INSPECTED FOR THE DEPTH OF SEDIMENT, AND BUILT UP SEDIMENT WILL BE REMOVED WHEN IT REACHES 10 PERCENT OF THE DESIGN CAPACITY OR AT THE END OF THE JOB, WHICHEVER COMES FIRST. DIVERSION DIKES/SWALES WILL BE INSPECTED AND ANY BREACHES PROMPTLY REPAIRED. TEMPORARY AND PERMANENT SEEDING AND PLANTING WILL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND HEALTHY GROWTH. A MAINTENANCE INSPECTION REPORT WILL BE MADE AFTER EACH INSPECTION. A COPY OF THE REPORT FORM TO BE COMPLETED BY THE CONTRACTOR'S INSPECTOR. THE REPORTS WILL BE KEPT ON SITE DURING CONSTRUCTION AND AVAILABLE UPON REQUEST TO THE OWNER, ENGINEER OR ANY FEDERAL, STATE OR LOCAL AGENCY APPROVING SEDIMENT AND EROSION PLANS, OR STORM WATER MANAGEMENT PLANS. THE REPORTS SHALL BE MADE AND RETAINED AS PART OF THE STORM WATER POLLUTION PREVENTION PLAN FOR AT LEAST THREE YEARS FROM THE DATE THAT THE SITE IS FINALLY STABILIZED AND THE NOTICE OF TERMINATION IS SUBMITTED THE REPORTS SHALL IDENTIFY ANY INCIDENTS OF NONCOMPLIANCE. THE SITE SUPERINTENDENT WILL SELECT UP TO THREE INDIVIDUALS WHO WILL BE RESPONSIBLE FOR INSPECTIONS, MAINTENANCE AND REPAIR ACTIVITIES, AND FILLING OUT THE INSPECTION AND MAINTENANCE REPORT. PERSONNEL SELECTED FOR INSPECTION AND MAINTENANCE RESPONSIBILITIES WILL RECEIVE TRAINING FROM THE SITE SUPERINTENDENT. THEY WILL BE TRAINED IN ALL THE INSPECTION AND MAINTENANCE PRACTICES NECESSARY FOR KEEPING THE EROSION AND SEDIMENT CONTROLS USED ONSITE IN GOOD WORKING ORDER.
<p>9. CERTIFICATION STATEMENT</p> <p>ALL CONTRACTORS AND SUBCONTRACTORS SHALL SIGN A COPY OF THE FOLLOWING CERTIFICATION STATEMENT BEFORE CONDUCTING ANY ACTIVITIES AT THE SITE.</p> <p>I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND, AND SHALL COMPLY WITH, THE TERMS AND CONDITIONS OF THE STATE OF FLORIDA GENERAL PERMIT FOR STORM WATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES AND THIS STORM WATER POLLUTION PREVENTION PLAN PREPARED THEREUNDER.</p>

SIGNATURE AND TITLE	BUSINESS NAME, ADDRESS AND TELEPHONE NUMBER OF CONTRACTOR & ALL SUBS	RESPONSIBLE FOR/DUTIES				
		GENERAL CONTRACTOR	SUB-CONTRACTOR	SUB-CONTRACTOR	SUB-CONTRACTOR	SUB-CONTRACTOR

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	03/21/2016	100% Design Documents
	04/08/2016	Permit and Bid Documents

ISSUE LOG

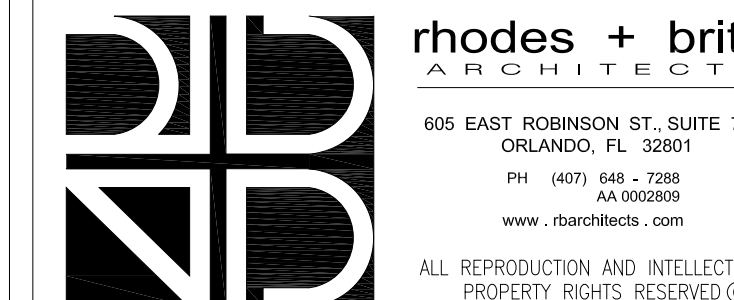
PROFESSIONAL SEALS:

SHEET TITLE:

STORMWATER POLLUTION PREVENTION PLAN

SHEET INFORMATION:	
JOB No. 100047904	Date Issued: 04-08-2016
Designed By: JLV	Sheet Number:
Checked By: JMR	C-502
QC Review: JPW	
Phase: 1	

CONSULTANT:



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PROFESSIONAL SEALS:

SHEET TITLE:

LIFE SAFETY PLAN

SHEET INFORMATION:	
JOB No. 100047904	Date Issued: 04-08-2016
Designed By:	Sheet Number:
Checked By:	
OC Review:	
Phase:	

LS-201

1. CODE INFORMATION

FLORIDA BUILDING CODE 5TH EDITION (2014)
UPDATE ENERGY PROVISIONS FOR COMMERCIAL BUILDINGS
NATIONAL ELECTRICAL CODE (2011)
F.B.C. 2014 MECHANICAL
F.B.C. 2014 PLUMBING

2. CONSTRUCTION CLASSIFICATION

CONSTRUCTION TYPE: TYPE II-B (UNSPRINKLERED)
ALLOWABLE HEIGHT: 3 STORY
ALLOWABLE AREA: 26,000 SQ. FT.
OCCUPANCY CLASSIFICATION: GROUP S2
ACTUAL HEIGHT: 22 FT.
ACTUAL AREA: 5,000 SQ. FT.

3. OCCUPANCY LOADS (FBC TABLE 1004.1.1)

STORAGE: 300 GROSS
5,000 / 300 = 16.667 OCCUPANTS

4. MEANS OF EGRESS

- MAX TRAVEL DISTANCE TO EXIT: 250 FT
- MAX DEAD-END CORRIDOR: 20 FT
- COMMON PATH OF TRAVEL: 75 FT; 20 FT IF OCCUPANCY IS \geq 50 (FBC 1014.3)
- EGRESS SUMMARY:
 - TOTAL OCCUPANT LOAD: 17 PERSONS
 - TOTAL EXIT CAPACITY PROVIDED: 64 INCHES (3.4 INCHES REQ.)
- EGRESS EXIT DOORS: MINIMUM 32 INCHES CLEAR WIDTH (LSC 7.2.1.2.3.2)
 - FORCE TO OPEN, APPLIED AT THE LATCH STILE: (FBC 1008.1.3 / LSC 7.2.1.4.5)
 - LESS THAN OR EQUAL TO 15 LBF TO OPERATE THE LATCH
 - LESS THAN OR EQUAL TO 30 LBF TO SET THE DOOR IN MOTION
 - LESS THAN OR EQUAL TO 15 LBF TO FULLY OPEN DOOR TO MINIMUM REQUIRED WIDTH
 - LESS THAN OR EQUAL TO 5 LBF FOR INTERIOR SIDE-HINGED OR PIVOTED SWINGING DOORS WITHOUT CLOSERS.
- EXIT SIGNS: SIGNS SHALL BE LOCATED THAT NO POINT IN THE EXIT ACCESS IS IN EXCESS OF THE RATED VIEWING DISTANCE OR 100 FT, WHICHEVER IS LESS, FROM THE NEAREST SIGN (FBC 1006.3./ LSC 7.10.1.5)

LIFE SAFETY LEGEND

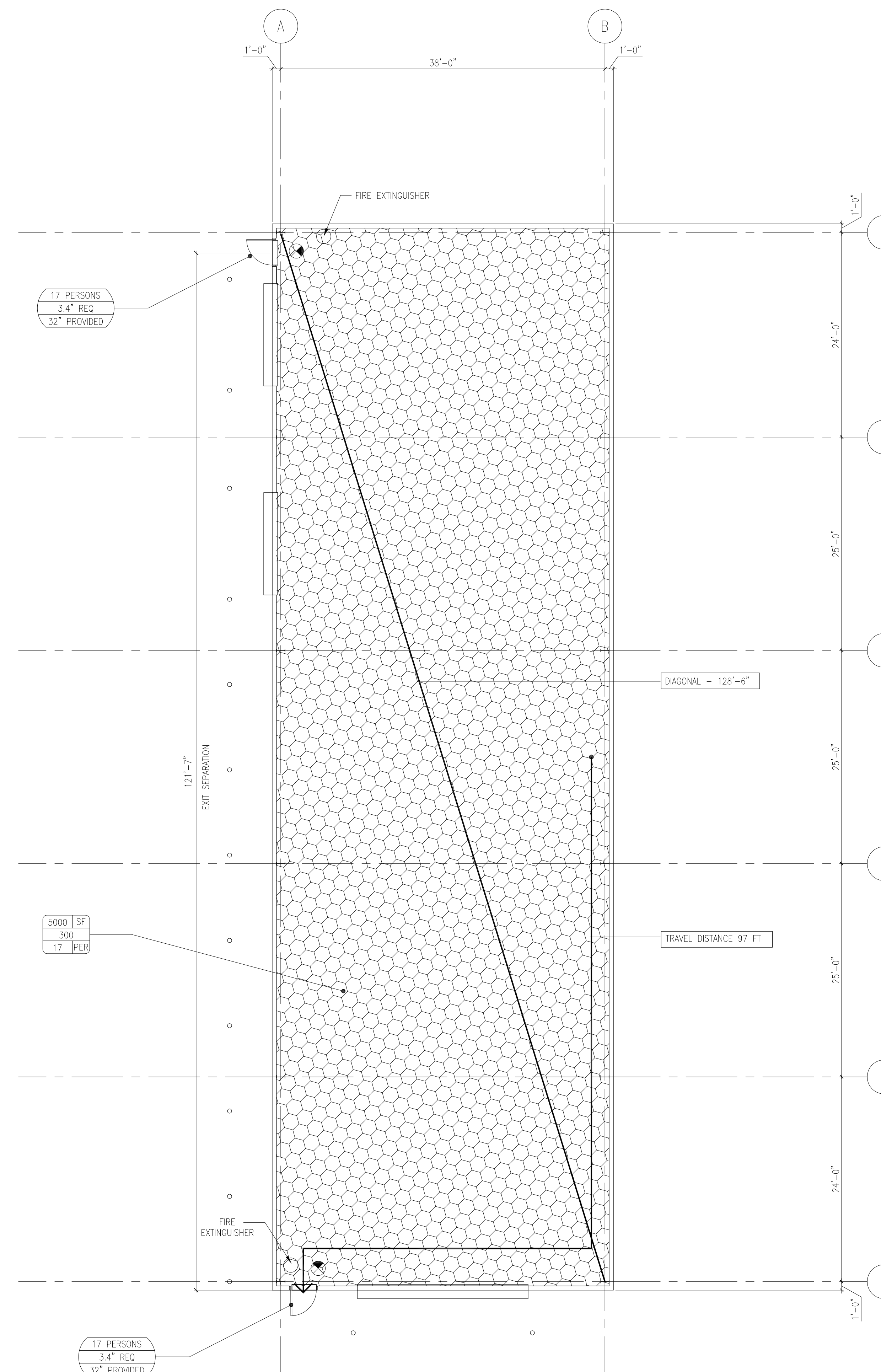
	STORAGE OCCUPANCY 300 SF / PERS
	ROOM AREA OCCUPANCY LOAD FACTOR OCCUPANCY LOAD
	EXIT OCCUPANCY LOAD MINIMUM EXIT WIDTH REQUIRED (INCHES) PROVIDED EXIT WIDTH (INCHES)
	EXIT SIGN
	EXIT SIGN WITH DIRECTIONAL ARROW
	SEMI-RECESSED FIRE EXTINGUISHER CABINET CLASS: 2-A; 10-B; C
	RECESSED FIRE EXTINGUISHER CABINET CLASS: 2-A; 10-B; C

RATINGS

TYPE II-B CONSTRUCTION STRUCTURAL ELEMENT FIRE RESISTANCE REQUIREMENTS (FBC TABLE 601)

STRUCTURAL ELEMENT*	FIRE RESISTANCE RATING (HR)
STRUCTURAL FRAME (INCL COLUMNS, GIRDERS, TRUSSES)	0
INTERIOR BEARING WALLS	0
EXTERIOR BEARING WALLS AND PARTITIONS	0
FLOOR CONSTRUCTION	0
ROOF CONSTRUCTION	0
EXTERIOR NONBEARING WALLS AND PARTITIONS	SEE BELOW

* STRUCTURAL ELEMENTS, OR PORTIONS THEREOF, THAT SUPPORT EXIT COMPONENTS AND EITHER PENETRATE INTO A FIRE RESISTANCE ASSEMBLY OR ARE INSTALLED WITHIN A FIRE RESISTANCE RATED WALL ASSEMBLY SHALL BE PROTECTED, TO THE FIRE RESISTANCE RATING OR NOT LESS THAN ONE-HOUR.

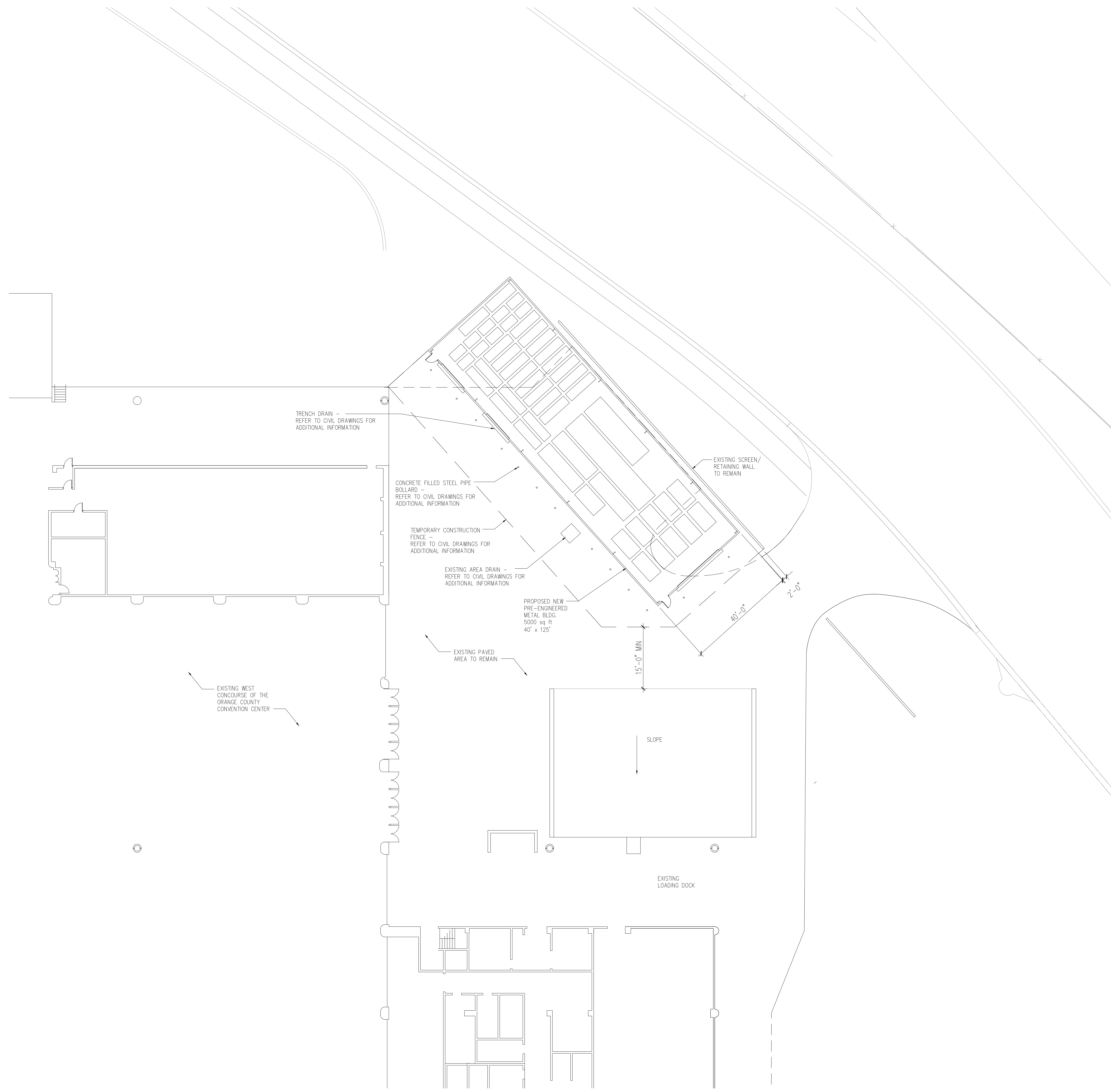


1 FLOOR PLAN

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



TRUE NORTH



1 SITE PLAN
 SCALE: 1/16" = 1'-0"
 FOR REFERENCE ONLY -
 SEE SHEET C-1 FOR DETAILED SITE LAYOUT INFORMATION



GENERAL PLAN NOTES

- DRAWINGS REPRESENT EXISTING CONDITIONS BASED ON LIMITED EXISTING AS-BUILD DRAWINGS AND SITE OBSERVATIONS. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF ALL ACTUAL CONDITIONS AND DIMENSIONS.
- GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING AND SCHEDULING CONSTRUCTION PHASES WITH THE OWNER PRIOR TO CONSTRUCTION. OBTAINING WRITTEN APPROVAL FROM THE OWNER OF DEMOLITION SCHEDULE IS REQUIRED.
- CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO START OF WORK. NOTIFY OWNER IN WRITING OF ANY DISCREPANCIES PRIOR TO START OF CONSTRUCTION.
- PROTECT ALL EXISTING ITEMS TO REMAIN FROM DAMAGE. CONTRACTOR SHALL BEAR ALL COSTS FOR REPAIRING, REPLACING, REFINISHING ITEMS OF EXISTING ITEMS (INCLUDING FIRE, SMOKE RATINGS) DAMAGED.
- PROVIDE, ERECT AND MAINTAIN TEMPORARY PARTITIONS, BARRIERS, GUARD RAILS AND OTHER SAFETY ITEMS AS REQUIRED BY REGULATORY AGENCIES, AS REQUIRED TO PROTECT OCCUPANTS OR AS NECESSARY TO PROTECT MATERIALS, SURFACES AND FINISHES.
- WHEN CUTTING INTO EXISTING WALLS, SLAB AND ROOF, CONTRACTOR SHALL TAKE EXTREME CARE AND CAUTION TO AVOID DAMAGING THE STRUCTURAL INTEGRITY OF THESE AREAS. CONTRACTOR SHALL DOCUMENT ALL WALL, ROOF CUTS AND SLAB CUTS WHERE REINFORCING MEMBERS ARE CUT. CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING, RESTORING AND MAINTAINING STRUCTURAL PERFORMANCES WHERE THE STRUCTURAL SYSTEM HAS BEEN COMPROMISED.
- CONTRACTOR SHALL VERIFY ALL UTILITIES (SHOWN OR NOT SHOWN ON DRAWINGS) THAT ARE TO REMAIN PRIOR TO CONSTRUCTION OR CUTTING INTO ANY WALL. PERMANENT PROCEDURES ARE TO BE MADE TO REROUTE OR BYPASS UTILITIES TO AVOID DISRUPTION OR SEVERING OF UTILITIES. CONTRACTOR SHALL NOT REQUEST ADDITIONAL CHARGES FOR SUCH UTILITIES THAT ARE CLEARLY VISIBLE (WITHOUT DEMOLITION).
- SEE LIFE SAFETY, STRUCTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL SCOPE AND INFORMATION.

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03/21/2016	100% Design Documents	
04/08/2016	Permit and Bid Documents	

ISSUE LOG
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SITE PLAN

SHEET INFORMATION:

JOB No. 100047904	Date Issued: 04-08-2016
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Checked By:	A-101
OC Review:	
Phase:	

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FLOOR PLAN

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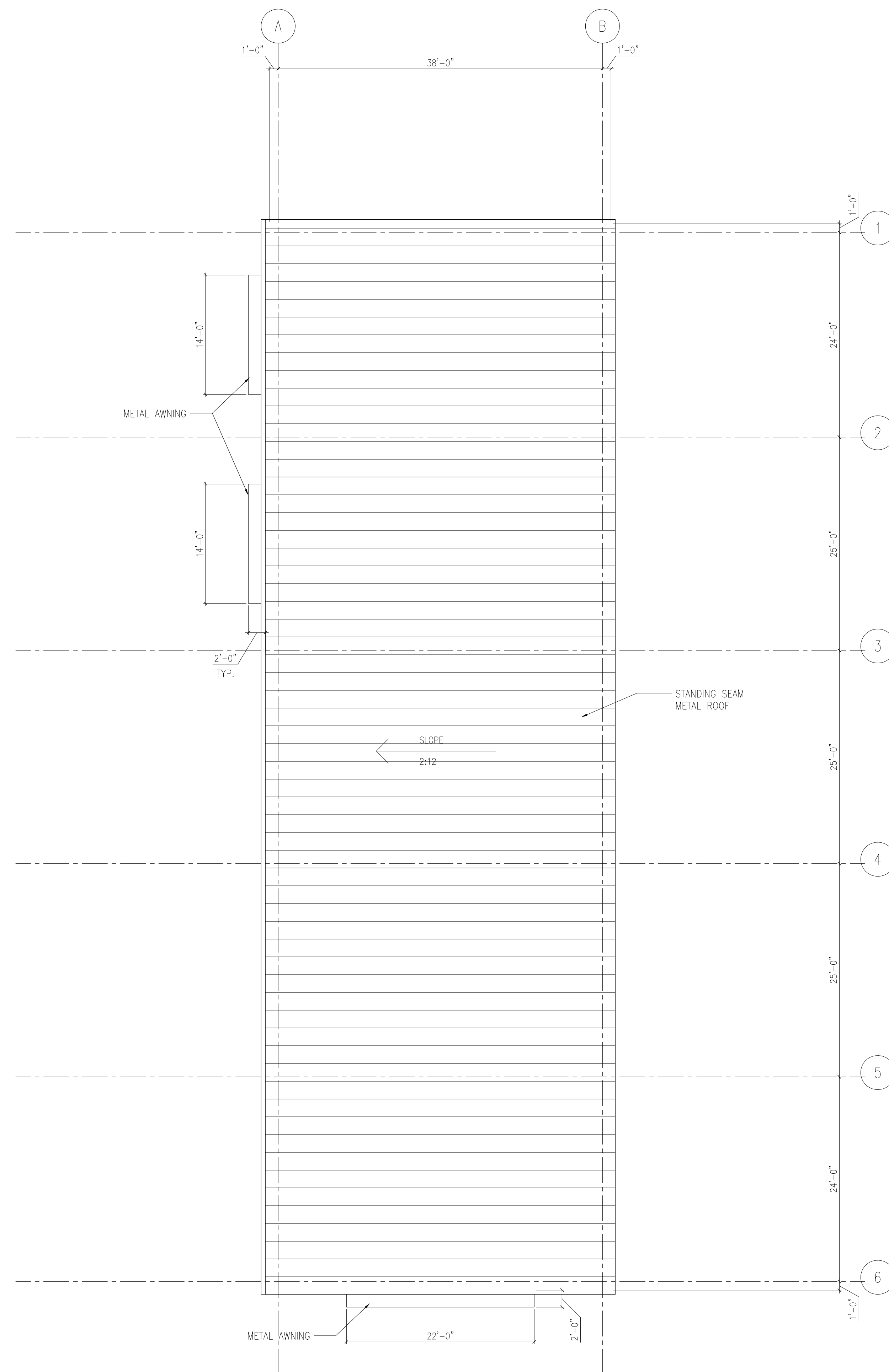
OC Review: _____

Phase: _____

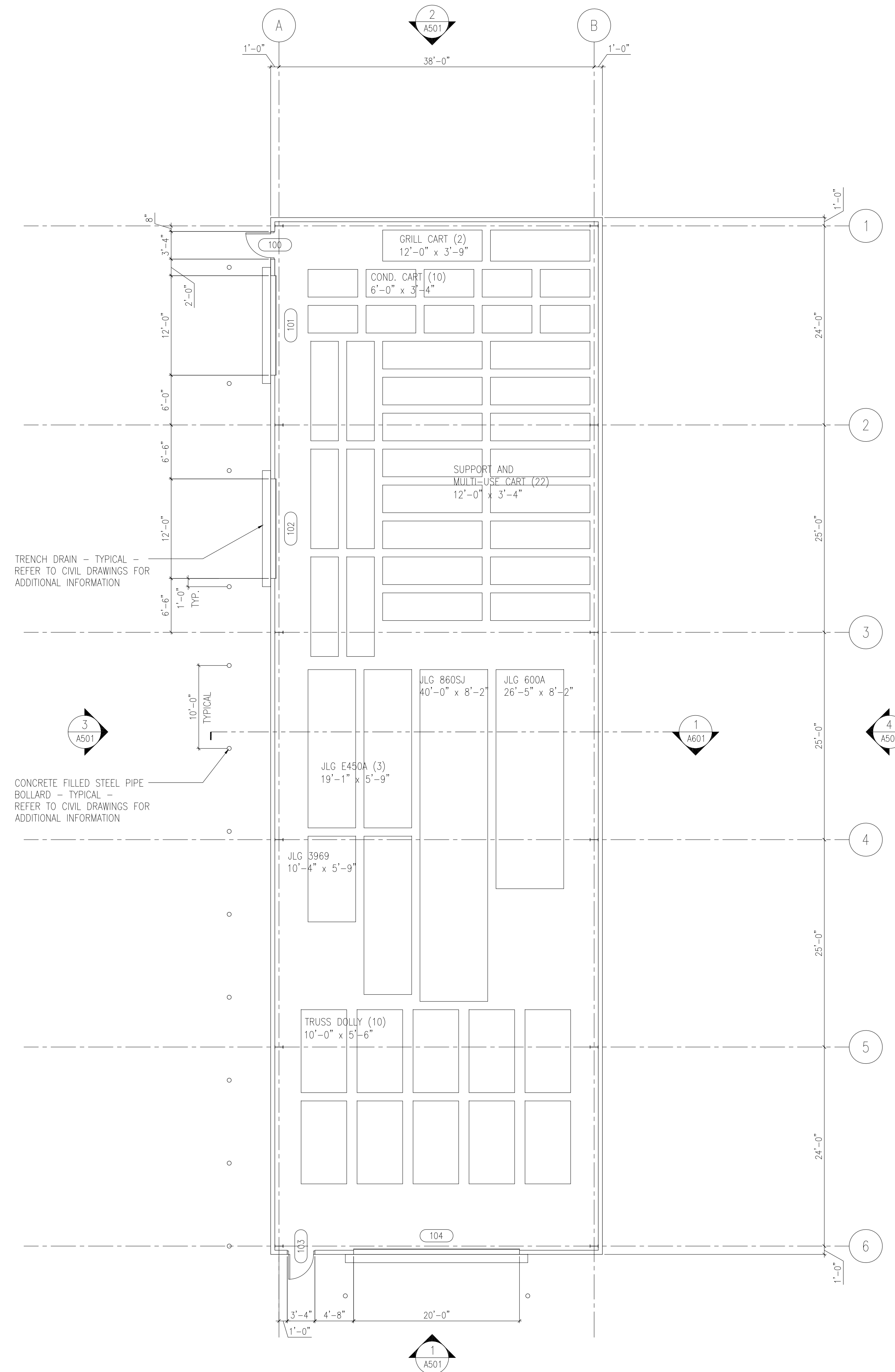
A-201

GENERAL PLAN NOTES

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- SEE LIFE SAFETY, STRUCTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL SCOPE AND INFORMATION.



2 ROOF PLAN
SCALE: 1/8" = 1'-0"



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



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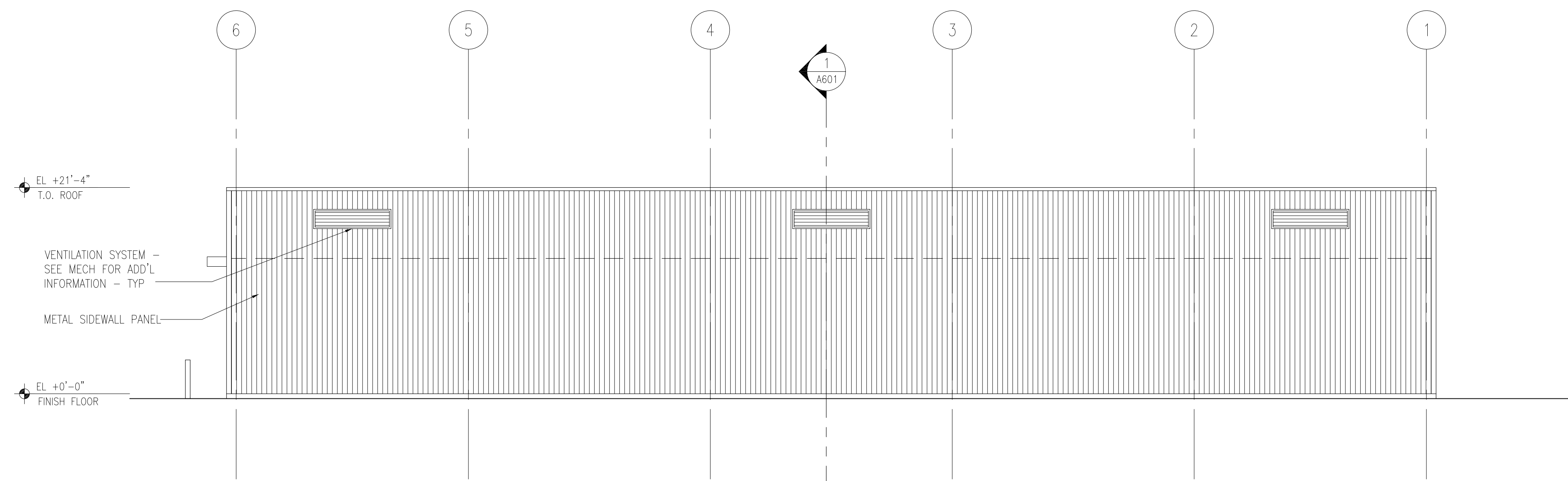


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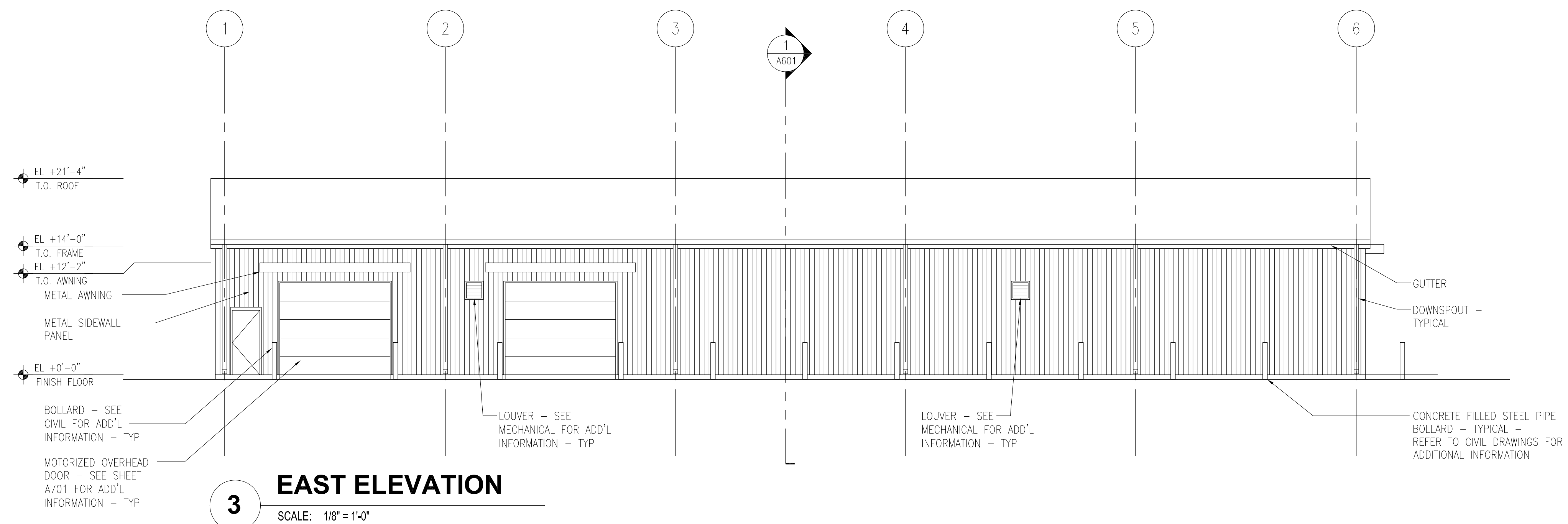


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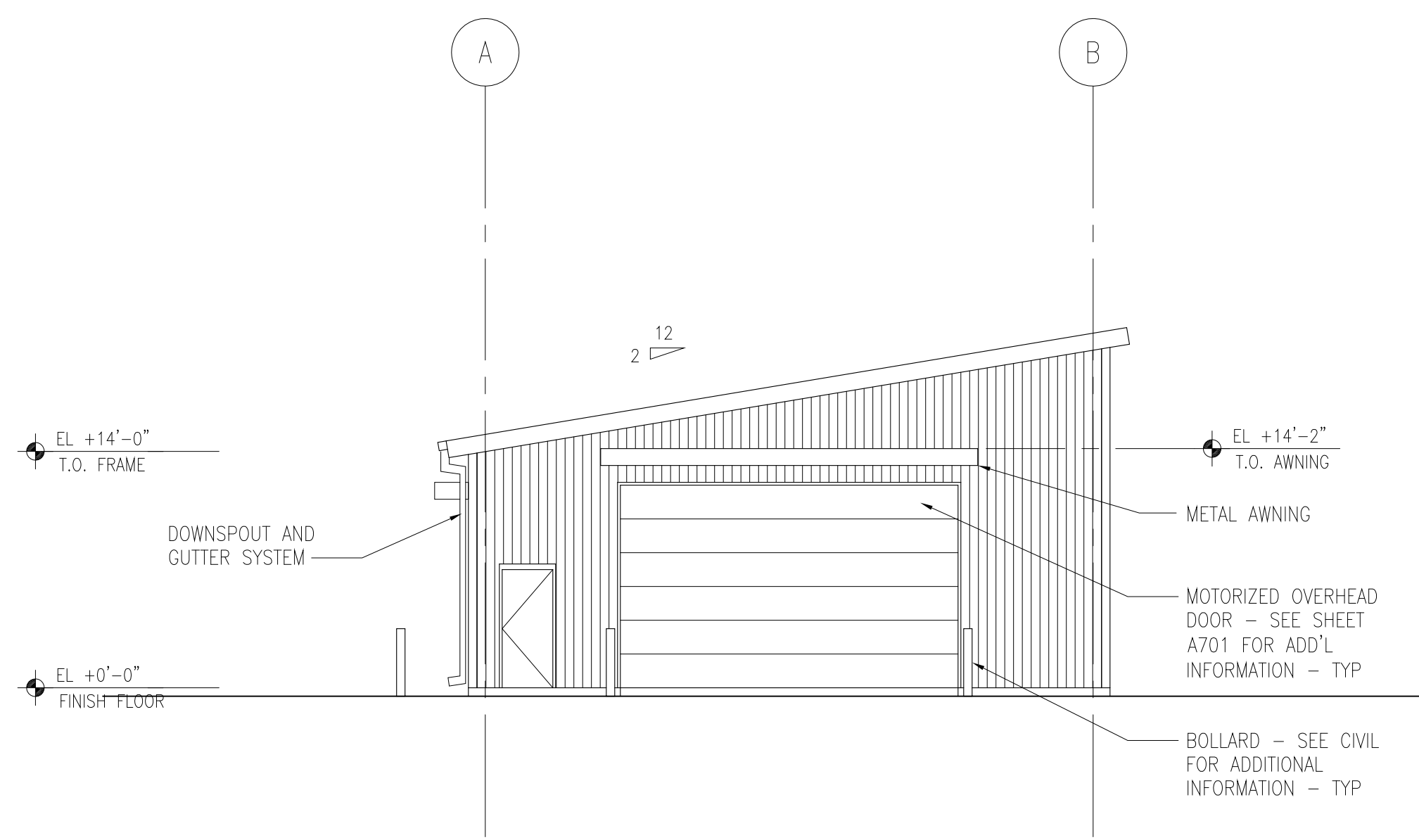
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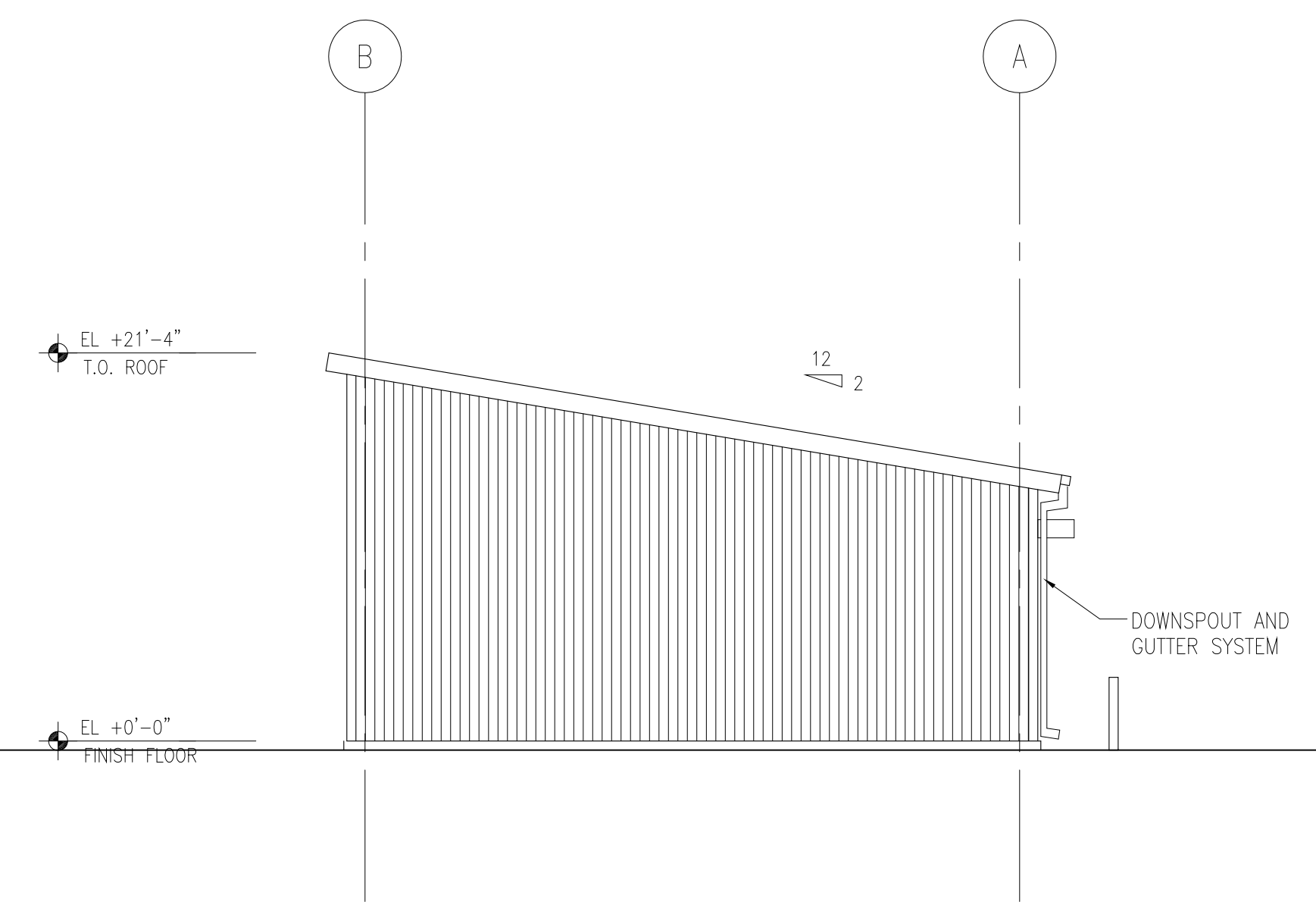
4 WEST ELEVATION
SCALE: 1/8" = 1'-0"



3 EAST ELEVATION
SCALE: 1/8" = 1'-0"



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



2 SOUTH ELEVATION
SCALE: 1/8" = 1'-0"

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EXTERIOR ELEVATIONS

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A-501

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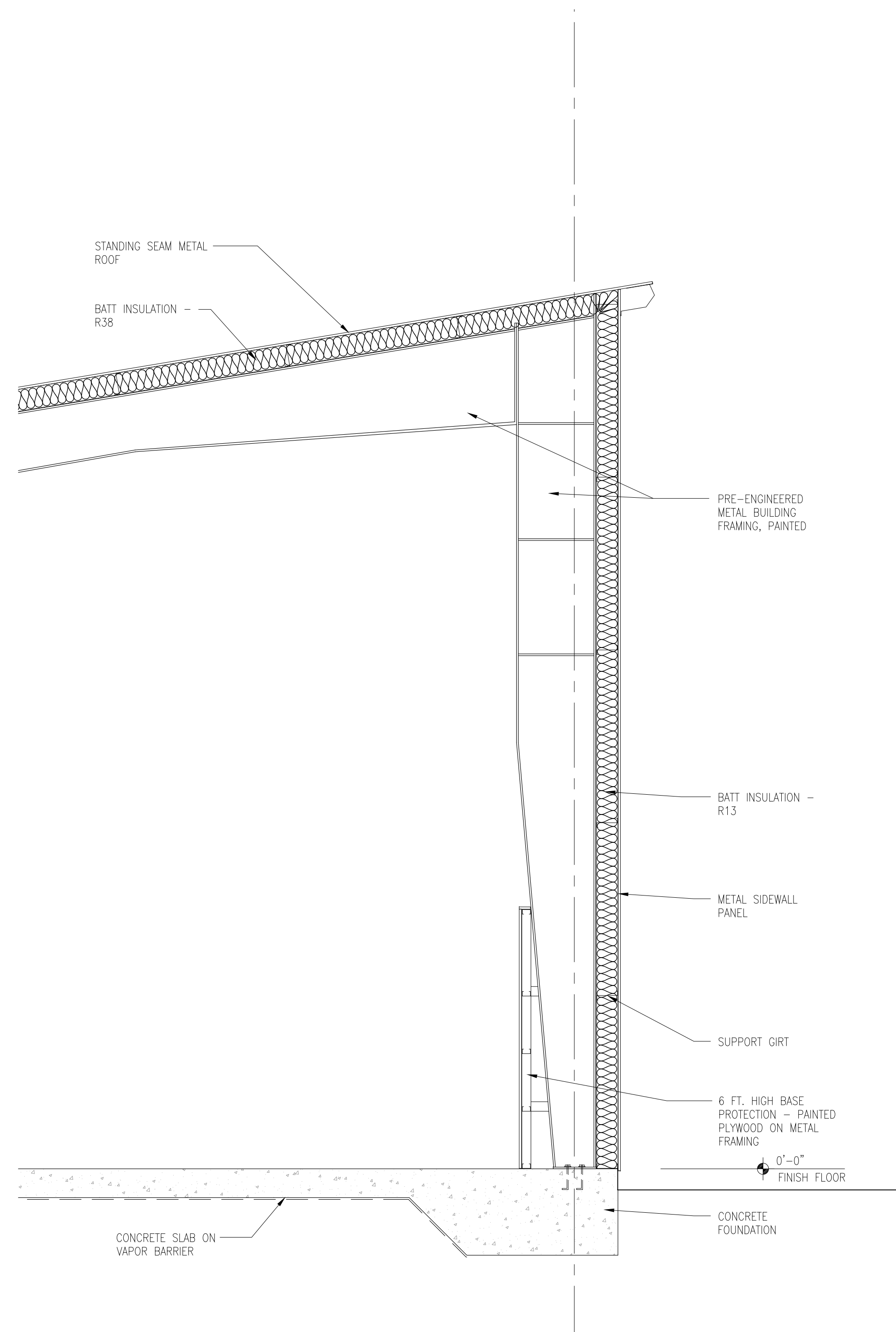
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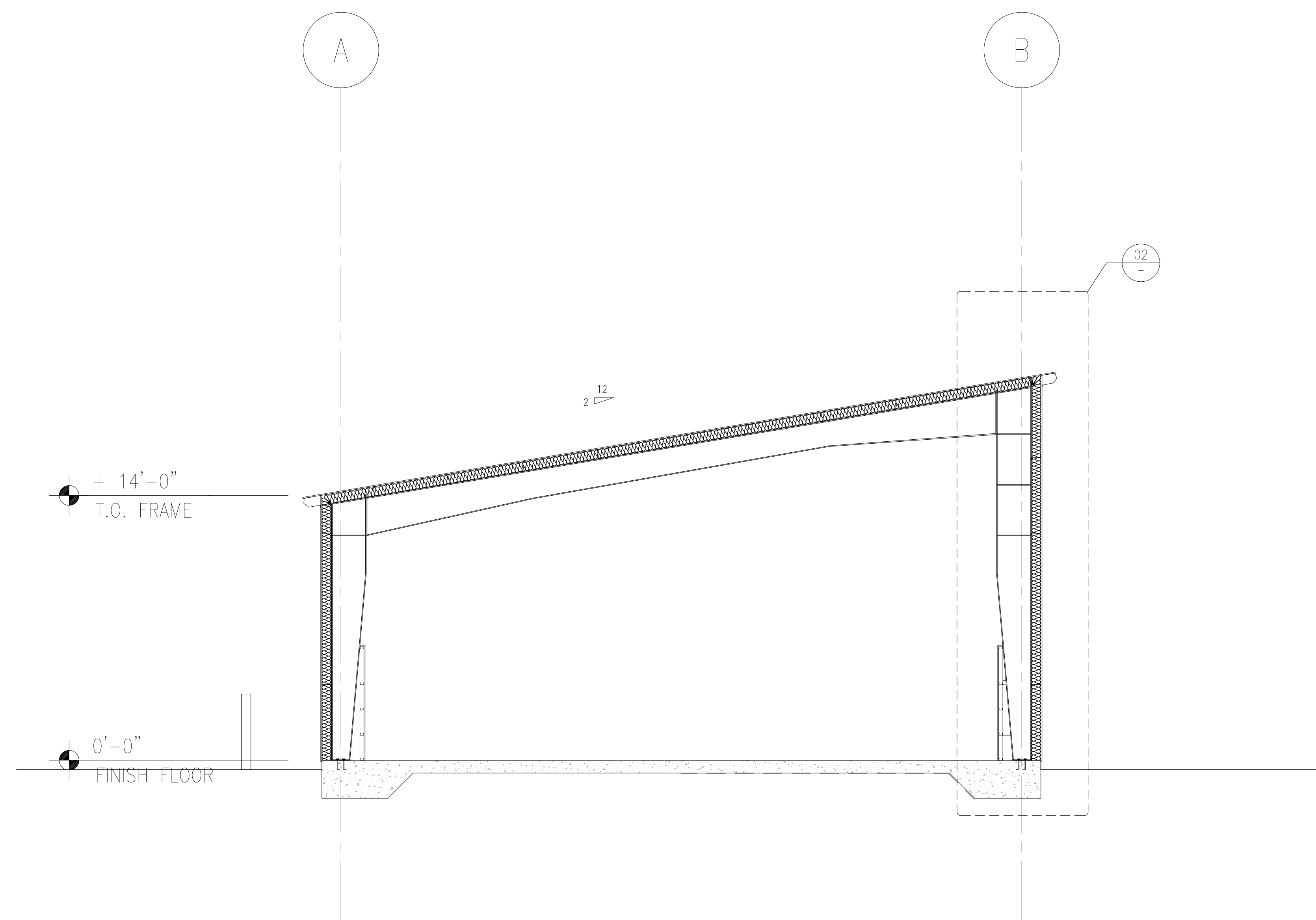
**BUILDING
SECTIONS**

SHEET INFORMATION:

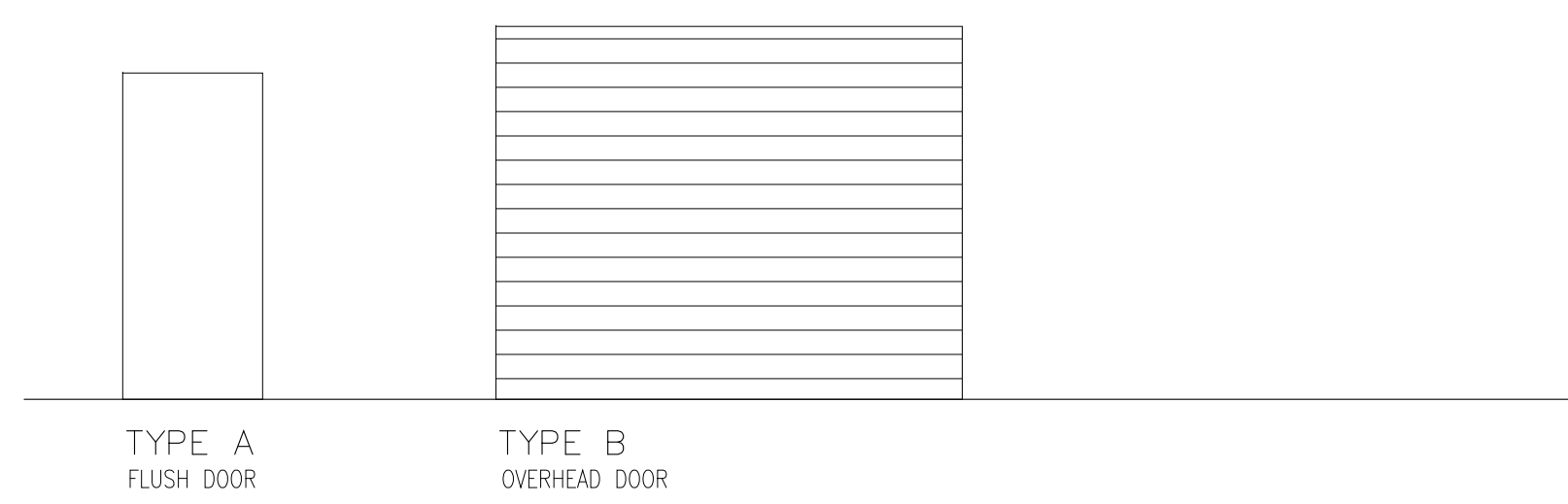
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OC Review:	
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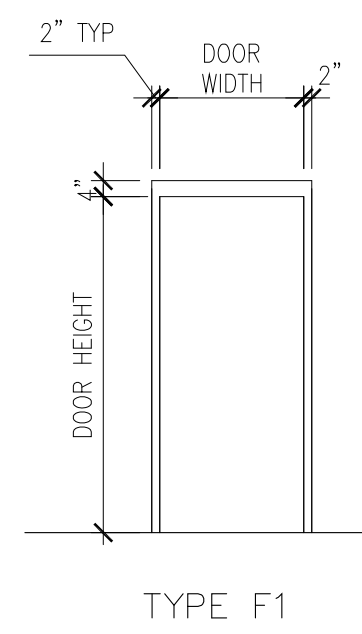
2 WALL SECTION
SCALE: 1/2" = 1'-0"



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



12 DOOR TYPES
SCALE:



11 FRAME TYPES
SCALE:

DOOR SCHEDULE

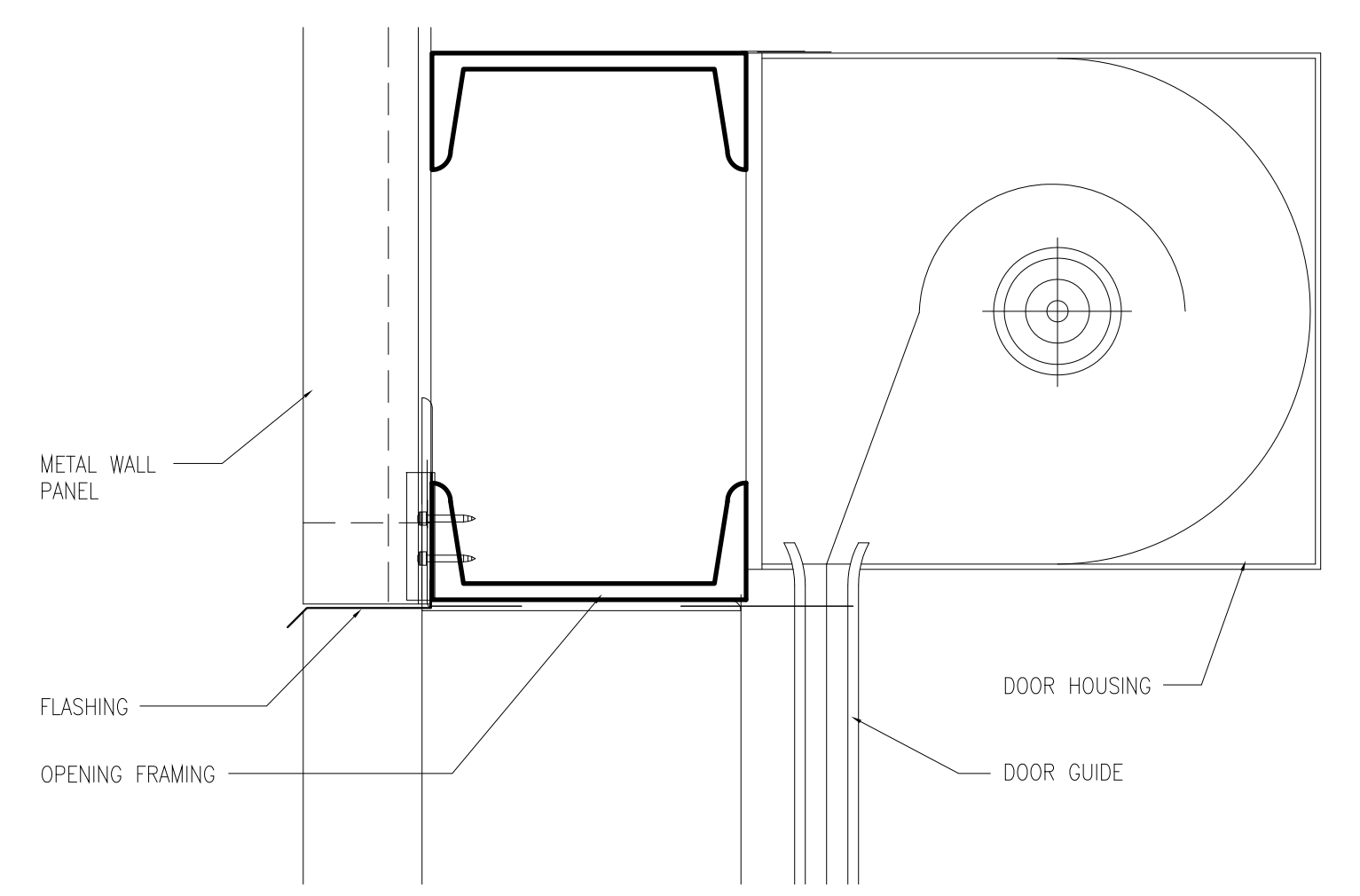
MARK	DOOR SIZE	DOOR THICKN	DOOR MATL	DOOR FINISH	DOOR RATING	DOOR TYPE	DOOR GLAZ	FRAME MAT'L	FRAME TYPE	FRAME FINISH	HRDWR	NOTES
100	3'-0" x 7'-0"	1-3/4"	HM	PNT	-	A	-	HM	F1	PNT	01	
101	12'-0" W x 10'-0" H		STL	PNT	-	B	-	-	-	-		
102	12'-0" W x 10'-0" H		STL	PNT	-	B	-	-	-	-		
103	3'-0" x 7'-0"	1-3/4"	HM	PNT	-	A	-	HM	F1	PNT	01	
104	20'-0" W x 12'-0" H		STL	PNT	-	B	-	-	-	-		

DOOR SCHEDULE ABBREVIATIONS

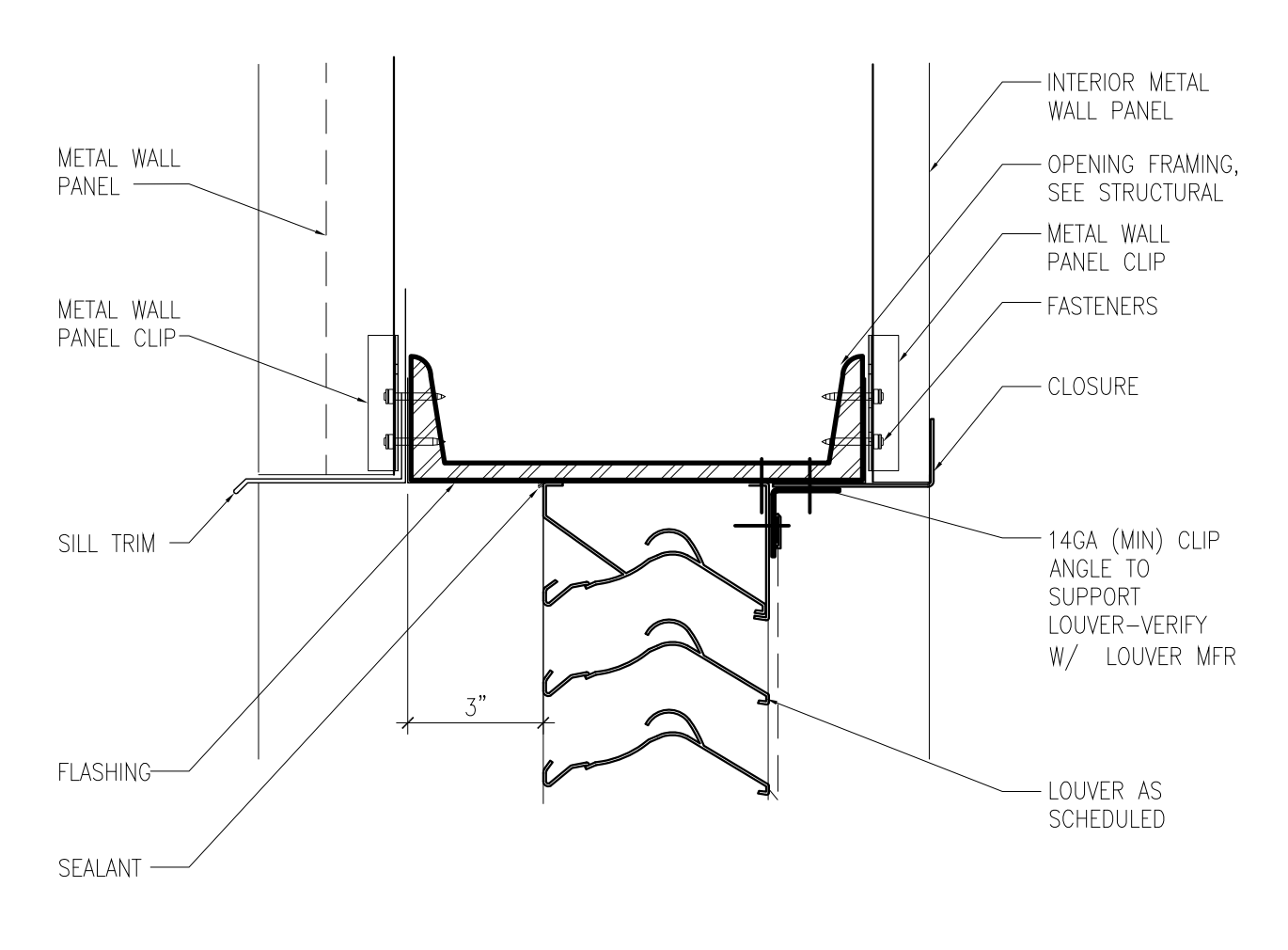
DR	DOOR	WD	WOOD
HM	HOLLOW METAL	FF	FACTORY FINISH
PNT	PAINT	AL	ALUMINUM
TRANS	TRANSPARENT FINISH	INS	INSULATED
SCWO	SOLID CORE WOOD DOOR	MTL	METAL
REPNT	REPAINT EXISTING	EXIST	EXISTING
EXIST HM	EXISTING HM FRAME	FGL	FIBERGLASS

DOOR SCHEDULE NOTES

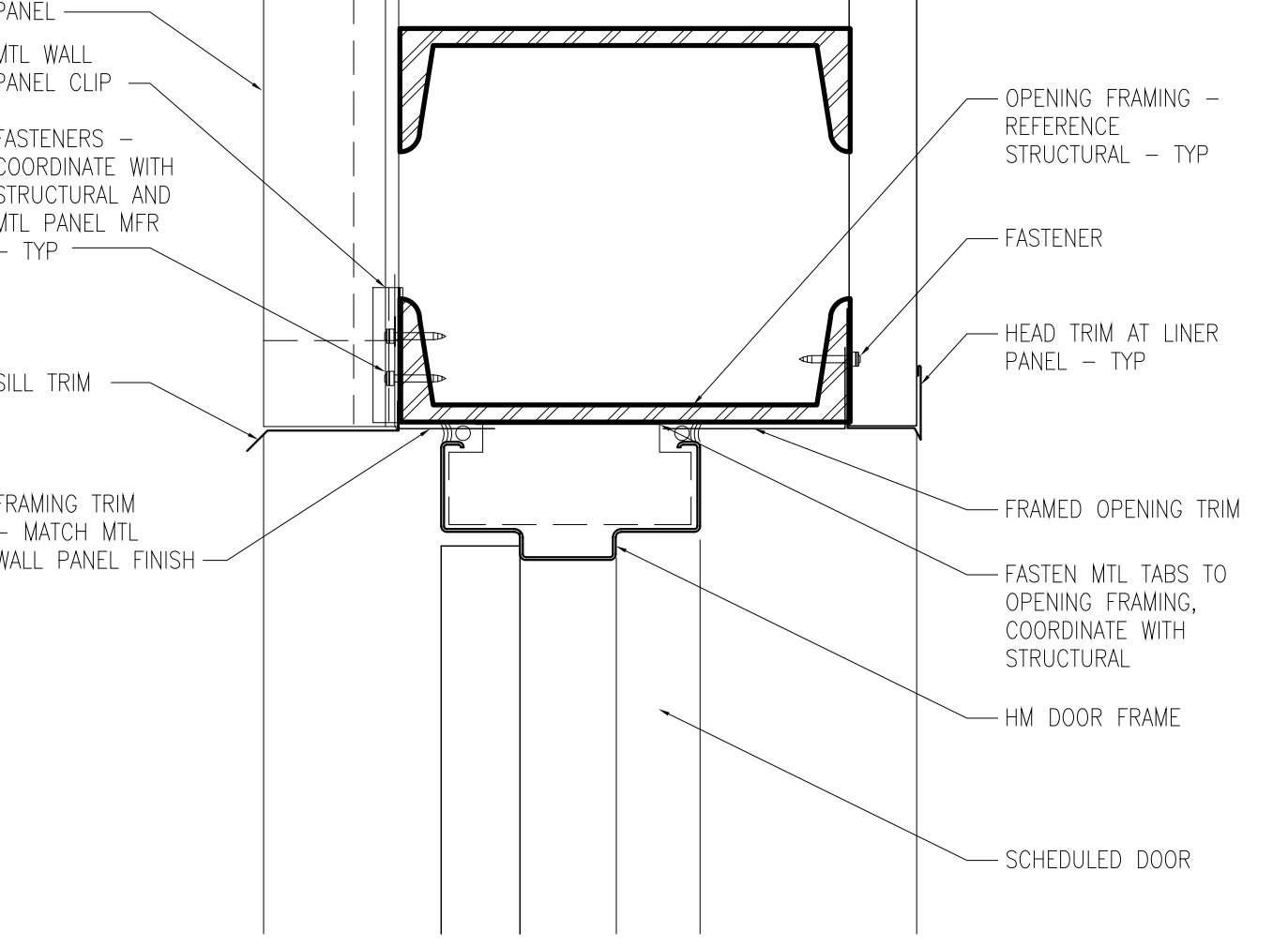
- HARDWARE SET 01 = 1 1/2" PAIR BUTTS, EXIT DEVICE, FLOOR STOP, SILENCERS, THRESHOLD, CLOSER, KICK PLATE, PANIC HARDWARE
- HEAVY-DUTY UNITS REQUIRED FOR OPERATION
- PANIC HARDWARE
- HINGES
- CLOSER
- BUILDING STANDARD DOOR HARDWARE IS STANLEY BEST SERIES



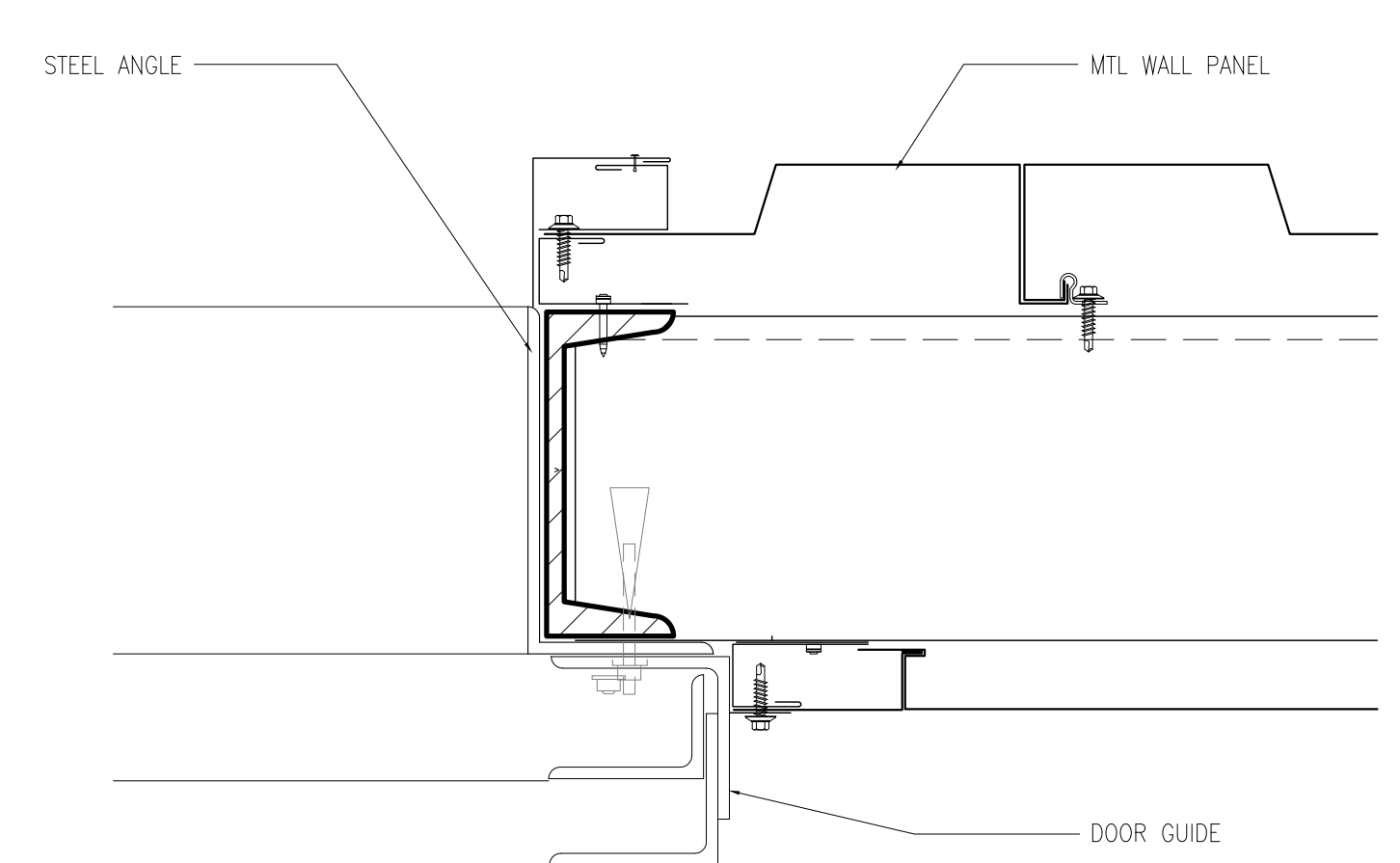
10 O.H. DOOR HEAD
SCALE: 3" = 1'-0"



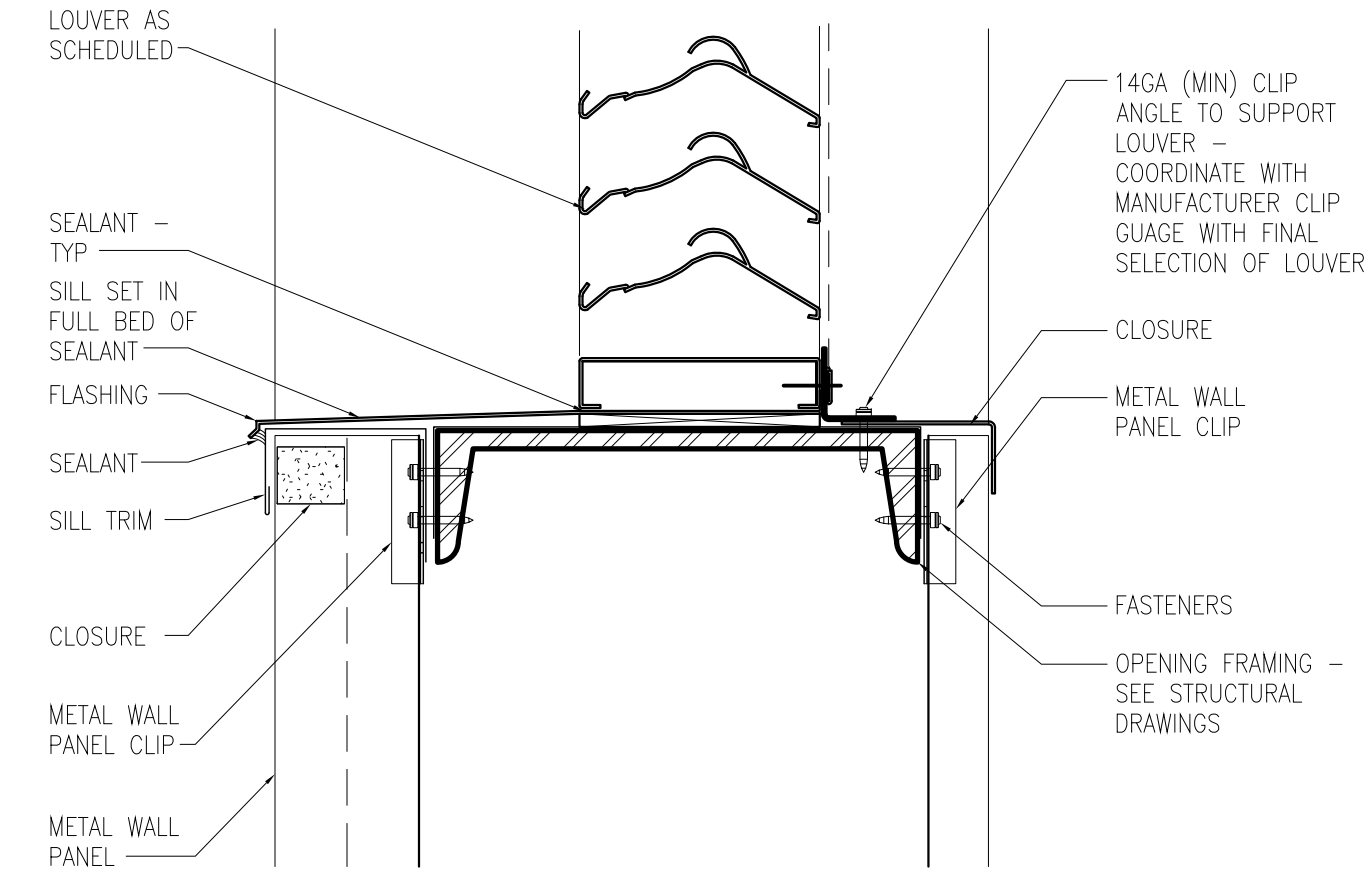
7 MTL WALL PANEL AT LOUVER HEAD
SCALE: 3" = 1'-0"



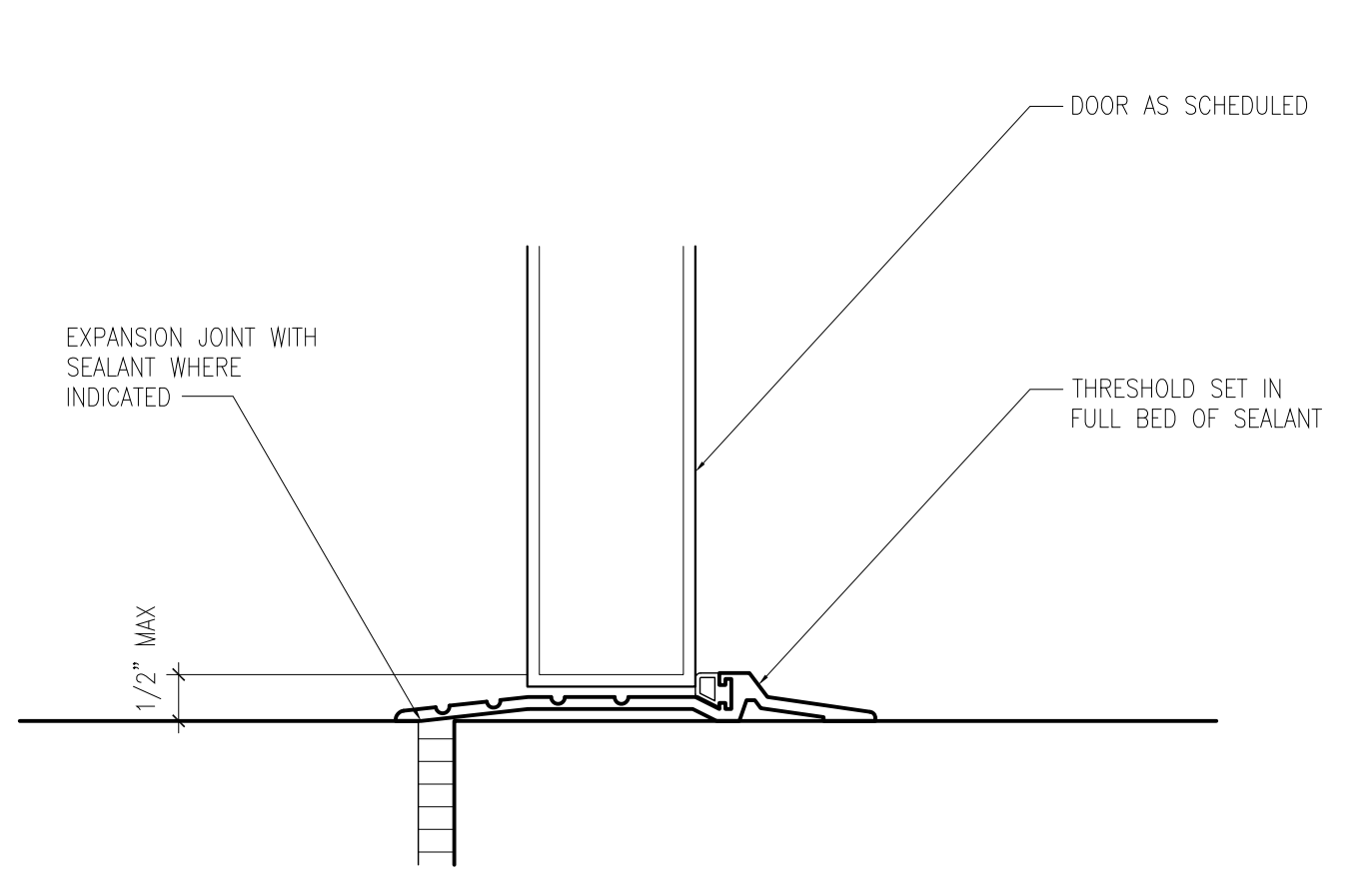
3 DOOR HEAD AT MTL WALL PANEL
SCALE: 3" = 1'-0"



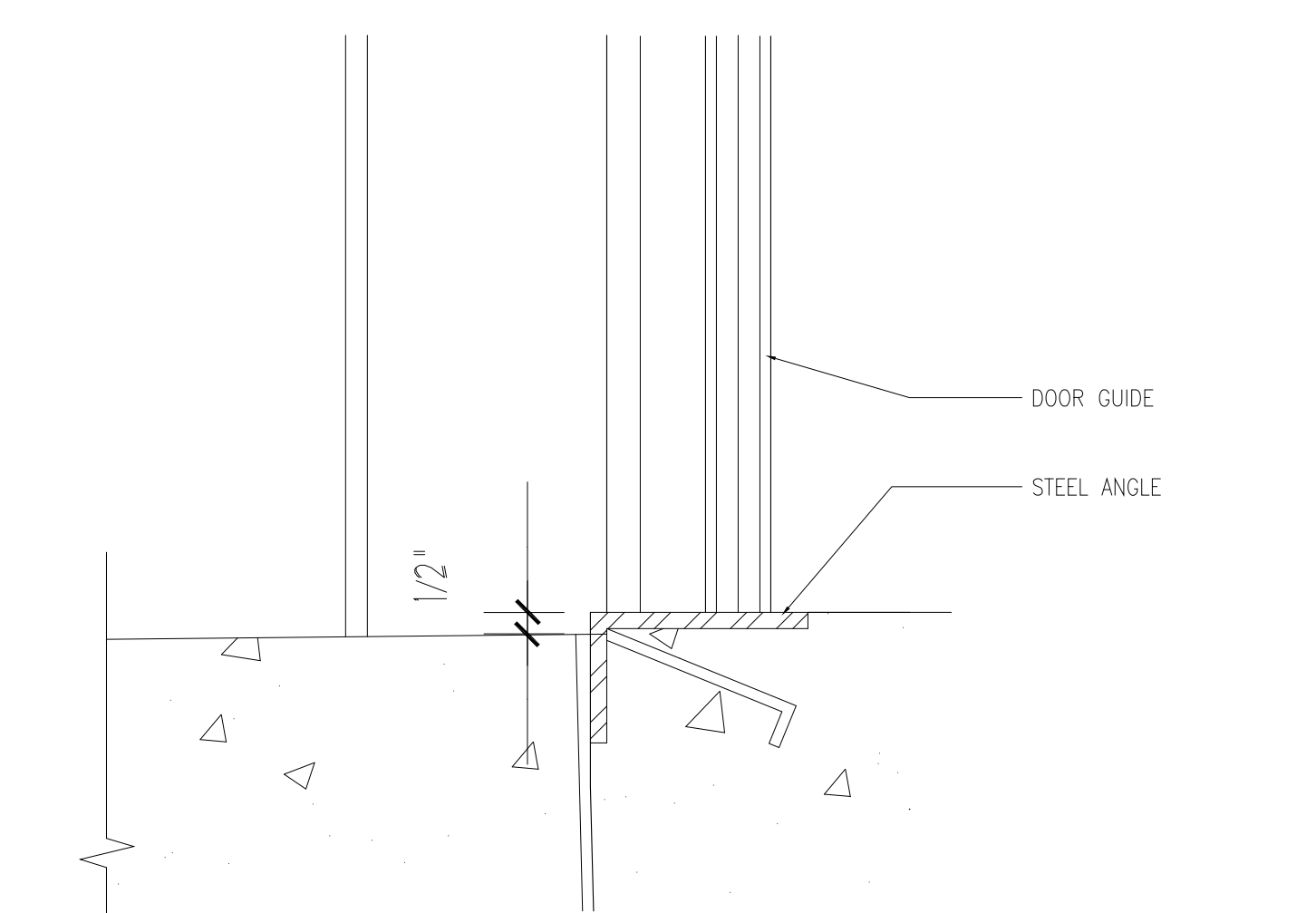
9 O.H. DOOR JAMB
SCALE: 3" = 1'-0"



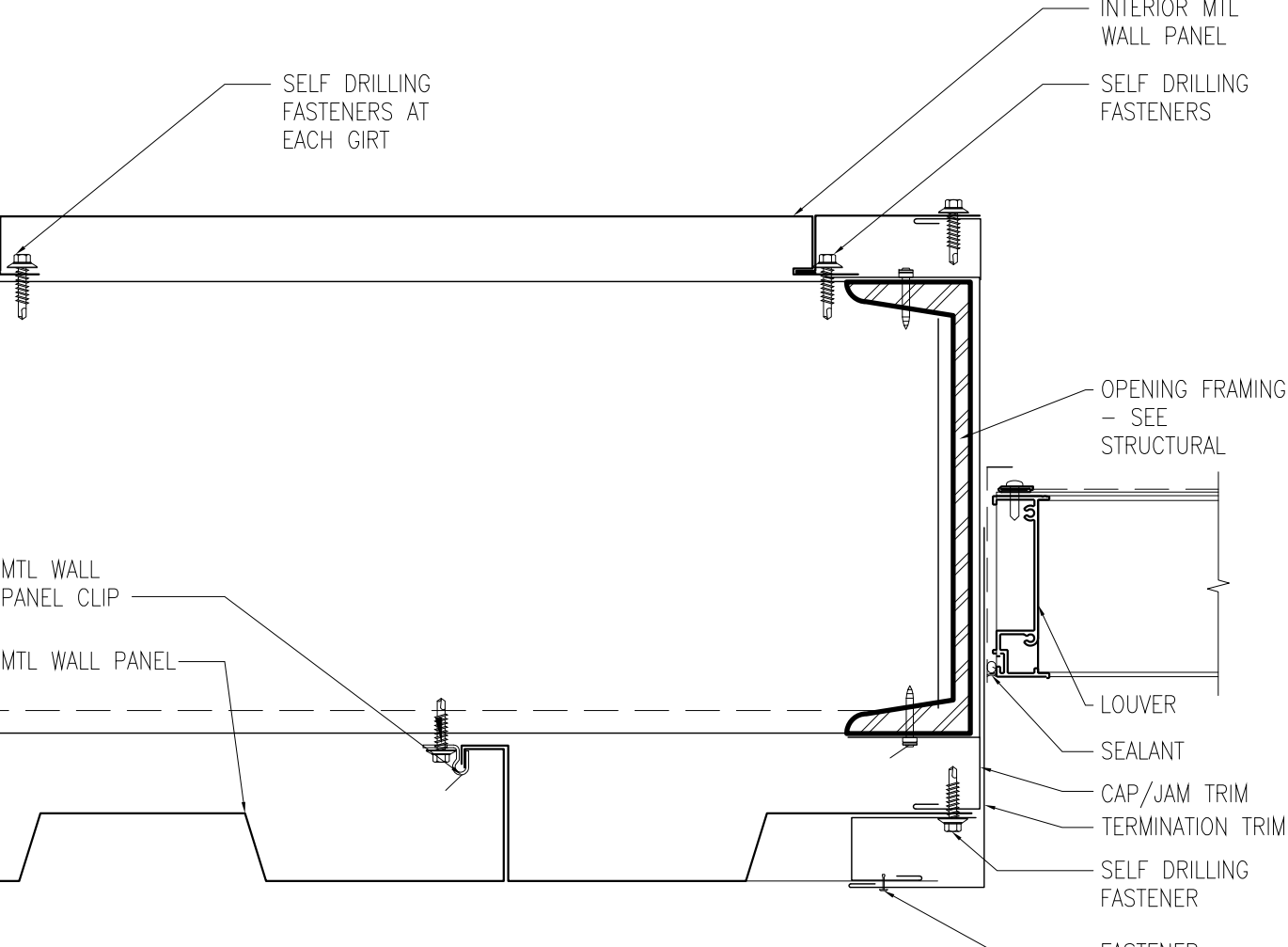
6 MTL WALL PANEL AT LOUVER SILL
SCALE: 3" = 1'-0"



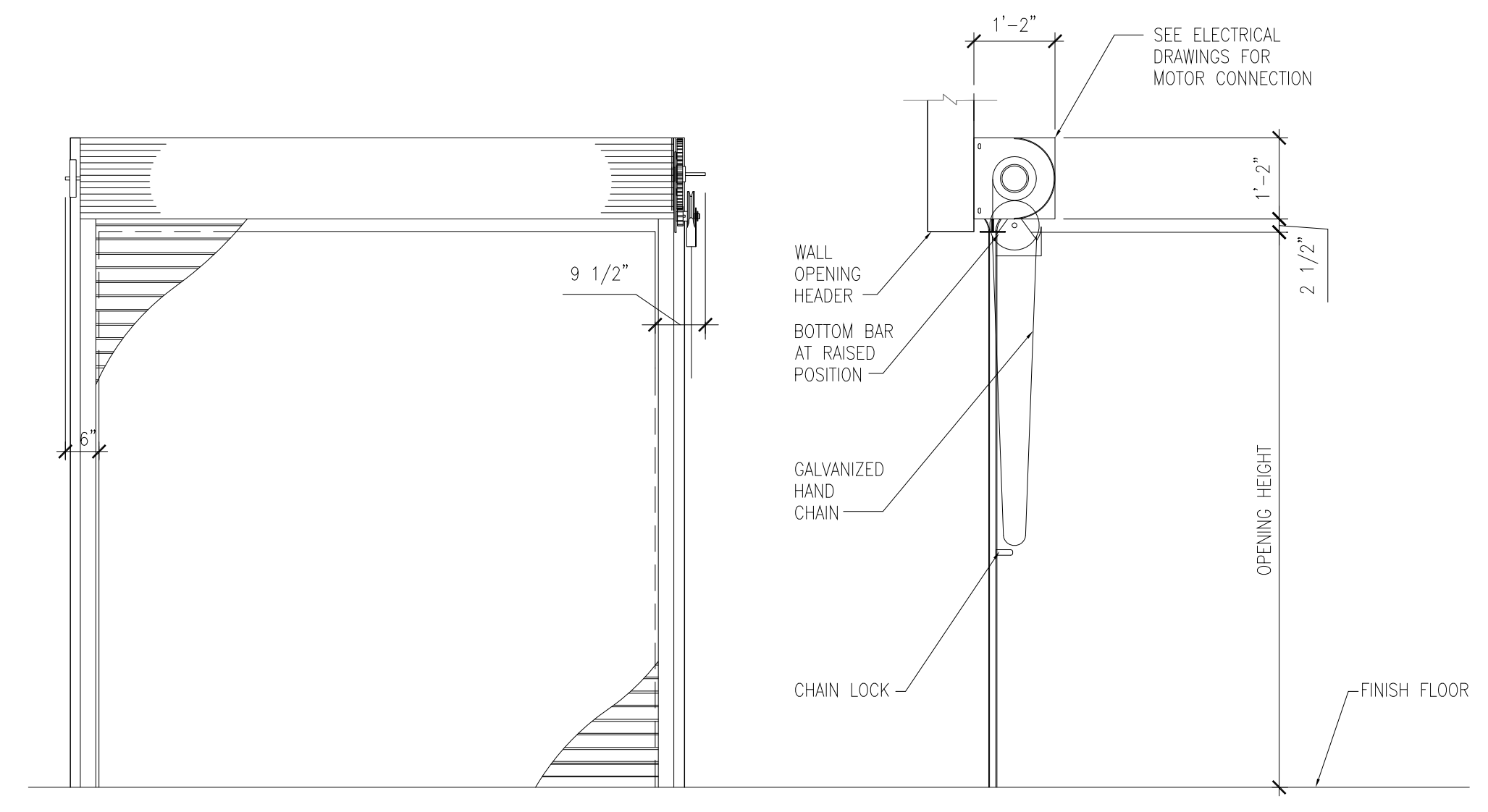
2 TYPICAL THRESHOLD DETAIL
SCALE: 3" = 1'-0"



8 O.H. DOOR SILL
SCALE: 3" = 1'-0"



5 MTL WALL PANEL AT LOUVER JAMB
SCALE: 3" = 1'-0"



1 TYPICAL O.H. COILING DOOR
SCALE: 1/2" = 1'-0"

No.	Date	Description
	12/01/2015	60% Design Documents
	01/22/2016	90% Design Documents
	03/21/2016	100% Design Documents
	04/08/2016	Permit and Bid Documents

ISSUE LOG
PROFESSIONAL SEALS:

SHEET TITLE:

DOOR AND LOUVER DETAILS

SHEET INFORMATION:

JOB No. 100047904	Date Issued: 04-08-2016
Designed By:	Sheet Number:
Checked By:	A-701
OC Review:	
Phase:	

STRUCTURAL GENERAL NOTES

NOTE: IN CASE OF ANY CONFLICTING INFORMATION BETWEEN THESE SPECS/DRAWINGS AND LOCAL CODE APPLICATIONS OR ANY OTHER CONTROLLING AUTHORITY, THE MOST STRINGENT CONDITION SHALL APPLY.

010100 - GENERAL STRUCTURAL CRITERIA

- STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE ONCE IN SERVICE. NO CONSIDERATION FOR STABILITY AND SHORING SHALL BE ASSUMED BY THE BUILDING PROCESS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO INSURE THE STABILITY AND SAFETY OF THE STRUCTURE AND ITS COMPONENTS BY DETERMINING AND IMPLEMENTING ERECTION PROCEDURES AND SEQUENCE OF CONSTRUCTION. THIS INCLUDES TEMPORARY BRACING AND SHORING AS WELL AS SOIL STABILIZATION AND PROTECTIVE MEASURES FOR EXISTING CONSTRUCTION.
- STRUCTURAL DRAWINGS AND SPECIFICATIONS SHALL BE UTILIZED CONCURRENTLY WITH ARCHITECTURAL, SITE, AND ENGINEERING DRAWINGS OF OTHER DISCIPLINES TO CONSULT INFORMATION NOT EXPLICITLY INDICATED ON STRUCTURAL DRAWINGS.
- CONTRACTOR SHALL VERIFY DIMENSIONS AND SITE CONDITIONS PRIOR TO PROCEEDING WITH PROCUREMENT OF MATERIALS AND LABOR. FABRICATION, AND CONSTRUCTION WORK WHERE DISCREPANCIES EXIST. NOTIFY ARCHITECT / ENGINEER OF SUCH DISCREPANCIES IN WRITING VIA A REQUEST FOR INFORMATION / INTERPRETATION (RFI) BEFORE PROCEEDING WITH THE WORK IN THE AFFECTED AREA / LOCATION.
- NO STRUCTURAL MEMBER OR COMPONENT SHALL BE CUT, NOTCHED, OR OTHERWISE ALTERED UNLESS APPROVED IN WRITING BY STRUCTURAL ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL COSTS INCURRED BY STRUCTURAL ENGINEER FOR REVIEW OF SUCH DEVIATIONS AND IMPLEMENTATION OF APPROPRIATE SOLUTIONS.
- PRIOR TO COMMENCING WORK, THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING AND COORDINATING WITH THE SUB-CONTRACTOR WORK INDICATED ON STRUCTURAL DRAWINGS WITH ARCHITECTURE, SITE WORK, DELEGATED COMPONENTS, AND THE WORK OF OTHER ENGINEERING DISCIPLINES.
- THE STRUCTURAL DRAWINGS AND SPECIFICATIONS ARE REPRESENTATIVE OF THE FINISHED STATE OF THE STRUCTURE. ENGINEER SHALL NOT BE IN RESPONSIBLE CHARGE AND CONTROL OF CONSTRUCTION MEANS, METHODS, PROCEDURES AND CONSTRUCTION TECHNIQUES. THE CONTRACTOR SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- THE STRUCTURAL ENGINEER SHALL NOT BE CONSIDERED AS HAVING CONTROL, CHARGE, AND LIABILITY FOR THE ACTIONS AND OMISSIONS AND FOR FAILURE OF THE CONTRACTOR, SUB-CONTRACTOR, AND OTHER PERSONS PERFORMING THE WORK TO CARRY OUT SUCH WORK IN ACCORDANCE WITH THE STRUCTURAL DRAWINGS AND COLLECTIVE CONTRACT DOCUMENTS.
- PERIODIC SITE OBSERVATION BY THE STRUCTURAL ENGINEER AND HIS / HER REPRESENTATIVES IS SOLELY FOR THE PURPOSE OF DETERMINING IF THE WORK OF THE CONTRACTOR IS PROCEEDING IN GENERAL ACCORDANCE WITH THE STRUCTURAL DRAWINGS AND SPECIFICATIONS. THIS LIMITED SITE OBSERVATION SHALL NOT BE CONSIDERED AS AN INSPECTION, EXHAUSTIVE, OR CONTINUOUS OBSERVATION TO VERIFY THE QUALITY AND QUANTITY OF THE WORK.
- THE USE OF REPRODUCTIONS OF THESE STRUCTURAL DRAWINGS AND SPECIFICATIONS AND MODELS FOR THE CONSTRUCTION OF THE WORK BY ANY CONTRACTOR, SUBCONTRACTOR, ERECTOR, FABRICATOR OR MATERIAL SUPPLIER IN LIEU OF PREPARATION OF SHOP DRAWINGS IS PROHIBITED UNLESS IN WRITING APPROVAL IS OBTAINED FROM THE STRUCTURAL ENGINEER.
- IN THE EVENT THAT THE STRUCTURAL DRAWINGS AND SPECIFICATIONS CONFLICT OR IN CONFLICT WITH THE STRUCTURAL DRAWINGS SHALL SUPERSEDE THE SPECIFICATIONS.

010300 - DESIGN CRITERIA

- STRUCTURAL WORK SHALL BE IN ACCORDANCE WITH:
 - FLORIDA BUILDING CODE (FBC) 2014
 - ASCE MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES 10-10
- REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS AND ELEVATIONS NOT INDICATED ON STRUCTURAL DRAWINGS. NOTIFY ARCHITECT / ENGINEER OF DISCREPANCIES PRIOR TO EXECUTION OF WORK.
- COORDINATE SIZES AND LOCATIONS OF OPENINGS IN FLOORS, WALLS AND ROOFS WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING REQUIREMENTS.
- REFER TO ARCHITECTURAL, CIVIL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR MATERIALS, COMPONENTS, AND CONNECTIONS NOT SHOWN HEREIN, AND FOR ANCHORED, SUPPORTED AND EMBEDDED ITEMS WHICH AFFECT THE STRUCTURAL WORK. VERIFY DETAILS AND DIMENSIONS WITH EQUIPMENT PURCHASER.
- NO PROVISIONS HAVE BEEN MADE FOR FUTURE VERTICAL AND/OR HORIZONTAL ADDITIONS, MODIFICATIONS, AND/OR EXPANSIONS.
- STRUCTURAL ENGINEER IS NOT RESPONSIBLE FOR THE DESIGN OF PRE-ENGINEERED METAL BUILDING SUPERSTRUCTURE OR OTHER SYSTEMS DELEGATED OR NOT SHOWN IN THE STRUCTURAL DRAWINGS. SUCH SYSTEMS SHALL BE DESIGNED, FURNISHED, AND INSTALLED BY OTHER PORTIONS OF THE PROJECT.
- REFERENCED DATUM FOR THE PROJECT SHALL BE TAKEN AS 0'-0" ESTABLISHED FROM SLAB ON GRADE FINISH FLOOR. VERIFY ACTUAL ELEVATIONS WITH CIVIL DRAWINGS.

010310 - DESIGN LOADINGS

GRAVITY LOADS			
LOCATION	UNIFORM LIVE LOAD	CONCENTRATED LIVE LOAD	UNIFORM DEAD LOAD
ROOF	20 PSF	—	10 PSF
STORAGE	250 PSF	10,500 LBS*	5 PSF

LIVE LOAD REDUCTION ON SUPPORTING ELEMENTS SHALL BE IN ACCORDANCE WITH THE BUILDING CODE. UNIFORM DEAD LOAD IS ADDITIVE TO ACTUAL STRUCTURAL WEIGHTS.

* MAXIMUM WHEEL LOAD EQUIVALENT TO A FLOOR LOADING PRESSURE OF 64 PSF

WIND LOADS	
ULT. WIND SPEED (3 SECOND GUST)	129 MPH
ASD WIND SPEED (3 SECOND GUST)	100 MPH
BUILDING RISK CATEGORY	I
WIND EXPOSURE	C
INTERNAL PRESSURE COEFFICIENT (ENCLOSED)	+0.18

COMPONENTS AND CLADDING DESIGN WIND PRESSURE "q"
SEE BUILDING'S ROOF UPLIFT PLAN AND WALL WIND LOAD DATA FOR APPLICABLE PRESSURES.

SEISMIC LOADS	
SPECTRAL RESPONSE ACCEL, Ss	0.0775
SPECTRAL RESPONSE ACCEL, S1	0.0375
SITE CLASS	D
SPECTRAL RESPONSE COEF, Sds	0.0825
SPECTRAL RESPONSE COEF, Sd1	0.0595
SEISMIC DESIGN CATEGORY	A
SEISMIC IMPORTANCE FACTOR	1.0
BASIC SEISMIC FORCE-RESISTING SYSTEM	-
SEISMIC RESPONSE COEFFICIENT, Cs	-
RESPONSE MODIFICATION FACTOR, R	-
DESIGN BASE SHEAR	-
ANALYSIS PROCEDURE	-

NOTE: CRITERIA MARKED WITH (*) TO BE DETERMINED BY PEMB SUPPLIER.

010320 - DEFLECTION CRITERIA

- DEFLECTION CRITERIA SHALL BE IN ACCORDANCE WITH DEFLECTION AND DRIFT LIMITS SET HEREIN.
- THE DEFLECTION LIMITS SHALL BE COORDINATED WITH THE ARCHITECTURAL DRAWINGS BASED ON THE MATERIALS SPECIFIED BY THE ARCHITECT. MATERIALS THAT REQUIRE DEFLECTION CRITERIA THAT EXCEED THE LIMITS INDICATED HEREIN PER THE MANUFACTURER'S AND/OR ARCHITECT'S RECOMMENDATIONS SHALL MEET THE CRITERIA RECOMMENDED BY THE MANUFACTURER AND/OR THE ARCHITECT.
- DEFLECTION / DRIFT LIMITS SHALL BE THE MORE STRINGENT OF THE RATIO OR ABSOLUTE VALUES INDICATED HEREIN.
- THE CONSTRUCTION OF THE BUILDING AND ITS COMPONENTS SHALL BE CONFIGURED TO ACCOMMODATE THESE MOVEMENTS.

DEFLECTION AND DRIFT LIMITS		
ROOF STRUCTURE	RATIO	ABSOLUTE
LIVE LOAD/WIND LOAD	L/240	---
TOTAL LOAD	L/180	---
EXTERIOR WALLS		
GIRT SYSTEM	L/90	---
DRIFT REQUIREMENTS		
WIND LOAD	H/180	---
SEISMIC LOAD	H/180	---

012500 - SUBSTITUTIONS

- CHANGES AND/OR SUBSTITUTIONS BY THE CONTRACTOR TO THE STRUCTURAL PLANS, DETAILS, MATERIALS, AND OTHER INFORMATION IN THE STRUCTURAL DRAWINGS ARE PROHIBITED.

013300 - SHOP DRAWING SUBMITTALS

- SHOP DRAWING SUBMITTALS ARE REQUIRED FOR ALL STRUCTURAL FRAMING, ELEMENTS, COMPONENTS, AND SYSTEMS INDICATED ON THE STRUCTURAL DRAWINGS. SHOP DRAWINGS SUBMITTALS INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING:
 - A. CONCRETE MIX DESIGNS
 - B. CONCRETE FOUNDATION REINFORCING SUBMITTALS
 - C. PRE-ENGINEERED METAL BUILDING SYSTEM (*)
 - D. ANCHORAGE OF MECHANICAL EQUIPMENT (*)
 SHOP DRAWING SUBMITTALS FOR ITEMS NOT LISTED ABOVE SHALL BE SUBMITTED FOR REVIEW UPON REQUEST BY THE STRUCTURAL ENGINEER. ITEMS MARKED (*) SHALL HAVE SHOP DRAWINGS SEALED BY A PROFESSIONAL ENGINEER. ITEMS MARKED (#) SHALL BE SUBMITTED FOR ENGINEERS RECORD ONLY.
- SHOP DRAWINGS SHALL BE REVIEWED BY THE STRUCTURAL ENGINEER FOR COMPLIANCE WITH DESIGN INTENT AND FOR GENERAL CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS. CORRECTIONS OR COMMENTS MADE ON THE SHOP DRAWINGS SHALL NOT RELIEVE THE CONTRACTOR FROM COMPLIANCE WITH THE STRUCTURAL DRAWINGS AND SPECIFICATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONFORMING AND CORRELATING QUANTITIES, DIMENSIONS, ELEVATIONS, AND LENGTHS, FOR SELECTING FABRICATION PROCESSES, FOR SELECTING METHODS OF CONSTRUCTION, FOR IDENTIFYING THE BUILDING STRUCTURE TO RESIST ALL LOADS INCLUDING WIND FORCES. ATTACHMENT SHALL BE MADE SO AS NOT TO OVERSTRESS STRUCTURAL MEMBERS. COORDINATE THE ATTACHMENTS AND LOCATIONS OF THE EQUIPMENT WITH THE STRUCTURAL SHOP DRAWINGS. REFER TO THE MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL REQUIREMENTS.
- SUBSTITUTION OF EXPANSION ANCHORS FOR ADHESIVE ANCHORS OR COMPRESSIVE STRENGTH TESTING SHALL BE CONDUCTED FOR EACH CLASS, FOR EVERY FIFTY CUBIC YARDS OF CONCRETE PLACED PER DAY. PLACEMENTS LESS THAN FIFTY CUBIC YARDS SHALL ALSO BE TESTED PER DAY FOR EACH CLASS. A MINIMUM OF FOUR LAB-CURED AND SIX FIELD-CURED CYLINDERS SHALL BE COLLECTED. TEST CYLINDERS PER SPECIFICATIONS. TWO CYLINDERS SHALL BE KEPT IN RESERVE AND TESTED, IF NECESSARY, WITH PRIOR APPROVAL FROM THE STRUCTURAL ENGINEER.
- CONCRETE FORMS SHALL BE IDENTIFIED WITH MIX NUMBER AND EXACT LOCATION WHERE MIX WILL BE PLACED ON THE STRUCTURE. SUBMITTALS SHALL INCLUDE DATA FROM RECENT FIELD AND LAB CYLINDER TESTS AND STATISTICAL TESTED BACK-UP DATA PER ACI 318.05.
- CONCRETE TICKETS FOR CONCRETE MIXES DELIVERED TO THE SITE SHALL IDENTIFY THE EXACT TIME THAT THE MIX IS BATCHED. CONCRETE PLACEMENT SHALL OCCUR WITHIN ONE AND A HALF HOURS FROM THE TIME THE PROPORTIONED MIXING WATER IS ADDED TO THE MIX FOR PLACEMENT. MIXES SHALL BE DISCARDED IF THIS TIMEFRAME IS EXCEEDED. IT SHALL BE THE RESPONSIBILITY OF THE INDEPENDENT TESTING LAB TO ASSURE COMPLIANCE WITH PLACING TIME AND TO NOTIFY THE CONTRACTOR AND OWNER OF NON-COMPLIANCE.
- CONCRETE FORMS SHALL NOT BE STRIPPED UNTIL CONCRETE HAS ATTAINED A MINIMUM 70% OF THE SPECIFIED 28-DAY COMPRESSIVE STRENGTH AS INDICATED BY TESTING SAMPLES.
- LAP SPICE LENGTHS SHALL BE A MINIMUM OF 48 BAR DIAMETERS UNLESS NOTED OTHERWISE.
- CONCRETE CLEAR COVER OVER REINFORCING SHALL BE IN ACCORDANCE WITH ACI 318 AS LISTED BELOW, UNLESS NOTED OTHERWISE:

LOCATION	CLEAR COVER
CAST AGAINST EARTH	3"
EXPOSED TO EARTH OR WEATHER #6 AND LARGER	1 1/2"
EXPOSED TO EARTH OR WEATHER #5 AND SMALLER	3/4"
SLABS AND WALLS NOT EXPOSED TO WEATHER	1 1/2"
BEAMS AND COLUMNS NOT EXPOSED TO WEATHER	1 1/2"
SLABS ON GRADE (COVER FROM TOP OF SLAB)	1 1/2"
- VERTICAL AND HORIZONTAL REINFORCING INDICATED ON THE DRAWINGS SHALL BE DOWELED OUT OF THE FOUNDATION OR THE ELEMENT WHERE THE REINFORCING ORIGINATES, (SLAB BEAM, THE BEAM WALL, ETC.) UTILIZING AN ACI STANDARD HOOK EMBEDDED TO DEVELOP THE FULL ULTIMATE TENSILE STRENGTH OF THE BAR. FORMWORK REMOVAL IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. REMOVE FORMS IN SUCH A MANNER AS TO INSURE JOB SAFETY AND TO PREVENT DAMAGE TO, AND CREEP DEFLECTION OF THE STRUCTURE.
- IMMEDIATELY AFTER REMOVAL OF FORMS, REPAIR HONEYCOMBED OR DEFECTIVE AREAS WITH HIGH STRENGTH CEMENT GROUT. GROUT SHALL BE APPROVED BY THE STRUCTURAL ENGINEER. WHEN REINFORCING IS VISIBLE IN DEFECTIVE AREA, CONTACT THE STRUCTURAL ENGINEER IMMEDIATELY.

013350 - SPECIALITY ENGINEER REQUIREMENTS AND SUBMITTALS

- THE "DELEGATE ENGINEER" SHALL REFER TO A REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF FLORIDA RETAINED BY THE CONTRACTOR TO PROVIDE DESIGN AND FABRICATION SUBMITTALS AND CALCULATIONS FOR THE COMPONENTS DELEGATED BY THE STRUCTURAL ENGINEER OF RECORD HEREIN.
- WHERE NOTED ON THIS SET OF CONSTRUCTION DOCUMENTS AND AS INDICATED BELOW, THE CONTRACTOR SHALL ENGAGE THE SERVICES OF A DELEGATED ENGINEER TO PROVIDE SPECIALTY ENGINEERING SERVICES FOR STRUCTURAL BUILDING COMPONENTS THESE COMPONENTS SHALL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING RECOMMENDED PRACTICE FOR "HOT WEATHER CONCRETING":
 - A. PRE-ENGINEERED METAL BUILDING SYSTEM (*)
 - B. ANCHORAGE OF MECHANICAL EQUIPMENT
- THE DELEGATE ENGINEER FOR EACH COMPONENT SHALL BE A REGISTERED PROFESSIONAL ENGINEER CURRENT AND IN GOOD STANDING WITH A MINIMUM OF FIVE (5) YEARS OF EXPERIENCE IN DESIGN FOR EACH SPECIALTY COMPONENT.
- THE DELEGATE ENGINEER SHALL BE THE ENGINEER OF RECORD FOR THE AFOREMENTIONED COMPONENTS AND SHALL SUBMIT SIGNED AND SEALED CALCULATIONS AND DRAWINGS FOR REVIEW BY THE STRUCTURAL ENGINEER.
- CALCULATIONS AND DRAWINGS SUBMITTED BY THE DELEGATE ENGINEER FOR REVIEW BY THE ENGINEER SHALL INCLUDE CLEARLY DEFINED DESIGN CRITERIA, DESIGN PROCEDURES, STRUCTURAL LOADS, CODE COMPLIANCE, REQUIRED DETAILS AND LAYOUTS.
- THE DELEGATE ENGINEER SHALL ALSO BE RESPONSIBLE FOR GENERATING ERECTOR DRAWINGS AND FABRICATION PROCEDURES FOR THE SPECIALTY COMPONENTS.
- REVIEW OF CALCULATIONS AND DRAWINGS SUBMITTED BY THE DELEGATE ENGINEER TO THE STRUCTURAL ENGINEER SHALL BE LIMITED TO THE VERIFICATION THAT THE DELEGATE ENGINEER HAS UTILIZED THE DESIGN CRITERIA SPECIFIED AND HAS UNDERSTOOD THE INTENT OF THE DESIGN. THE CONTRACTOR SHALL NOT MAKE A DETAILED CHECK OF THE CALCULATIONS AND DESIGN PROCESSES UTILIZED BY THE DELEGATE ENGINEER. THE DELEGATE ENGINEER SHALL BE RESPONSIBLE FOR MAINTAINING THE INTEGRITY OF THE SPECIALTY COMPONENTS.
- REFER TO SECTION 013300 FOR ADDITIONAL INFORMATION REGARDING SUBMITTAL PROCEDURES AND REQUIREMENTS.

017200 - OPERATION AND MAINTENANCE

- STRUCTURES REQUIRE PERIODIC MAINTENANCE TO EXCEED LIFE SPAN AND TO ENSURE STRUCTURAL INTEGRITY FROM EXPOSURE TO THE ENVIRONMENT. A PLANNED PROGRAM OF MAINTENANCE SHALL BE ESTABLISHED BY THE OWNER.
- THIS PROGRAM SHALL INCLUDE ITEMS SUCH AS, BUT NOT LIMITED TO, PAINTING OF STRUCTURAL STEEL, PROTECTIVE COATINGS FOR CONCRETE, SEALANTS, CALKED JOINTS, EXPANSION JOINTS, CONTROL JOINTS, SPALLS AND CRACKS IN CONCRETE, AND PRESSURE WASHING OF EXPOSED STRUCTURAL ELEMENTS EXPOSED TO SALT ENVIRONMENT OR OTHER HARSH CHEMICALS.

019100 - MISCELLANEOUS

- CONCRETE PADS FOR MECHANICAL AND ELECTRICAL EQUIPMENT ON FLOORS SHALL BE NO LESS THAN 4" HIGH UNLESS NOTED OTHERWISE. CORRECTIONS OR COMMENTS MADE ON THE SHOP DRAWINGS SHALL NOT RELIEVE THE CONTRACTOR FROM COMPLIANCE WITH THE STRUCTURAL DRAWINGS AND SPECIFICATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONFORMING AND CORRELATING QUANTITIES, DIMENSIONS, ELEVATIONS, AND LENGTHS, FOR SELECTING FABRICATION PROCESSES, FOR SELECTING METHODS OF CONSTRUCTION, FOR IDENTIFYING THE BUILDING STRUCTURE TO RESIST ALL LOADS INCLUDING WIND FORCES. ATTACHMENT SHALL BE MADE SO AS NOT TO OVERSTRESS STRUCTURAL MEMBERS. COORDINATE THE ATTACHMENTS AND LOCATIONS OF THE EQUIPMENT WITH THE STRUCTURAL SHOP DRAWINGS. REFER TO THE MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL REQUIREMENTS.
- SUBSTITUTION OF EXPANSION ANCHORS FOR ADHESIVE ANCHORS OR COMPRESSIVE STRENGTH TESTING SHALL BE CONDUCTED FOR EACH CLASS, FOR EVERY FIFTY CUBIC YARDS OF CONCRETE PLACED PER DAY. PLACEMENTS LESS THAN FIFTY CUBIC YARDS SHALL ALSO BE TESTED PER DAY FOR EACH CLASS. A MINIMUM OF FOUR LAB-CURED AND SIX FIELD-CURED CYLINDERS SHALL BE COLLECTED. TEST CYLINDERS PER SPECIFICATIONS. TWO CYLINDERS SHALL BE KEPT IN RESERVE AND TESTED, IF NECESSARY, WITH PRIOR APPROVAL FROM THE STRUCTURAL ENGINEER.
- MIX DESIGN SUBMITTALS SHALL BE SENT TO THE STRUCTURAL ENGINEER FOR REVIEW AND APPROVAL PRIOR TO CONCRETE PLACEMENT AND SHALL BE UNIQUELY IDENTIFIED WITH MIX NUMBER AND EXACT LOCATION WHERE MIX WILL BE PLACED ON THE STRUCTURE. SUBMITTALS SHALL INCLUDE DATA FROM RECENT FIELD AND LAB CYLINDER TESTS AND STATISTICAL TESTED BACK-UP DATA PER ACI 318.05.
- CONCRETE TICKETS FOR CONCRETE MIXES DELIVERED TO THE SITE SHALL IDENTIFY THE EXACT TIME THAT THE MIX IS BATCHED. CONCRETE PLACEMENT SHALL OCCUR WITHIN ONE AND A HALF HOURS FROM THE TIME THE PROPORTIONED MIXING WATER IS ADDED TO THE MIX FOR PLACEMENT. MIXES SHALL BE DISCARDED IF THIS TIMEFRAME IS EXCEEDED. IT SHALL BE THE RESPONSIBILITY OF THE INDEPENDENT TESTING LAB TO ASSURE COMPLIANCE WITH PLACING TIME AND TO NOTIFY THE CONTRACTOR AND OWNER OF NON-COMPLIANCE.
- CONCRETE FORMS SHALL NOT BE STRIPPED UNTIL CONCRETE HAS ATTAINED A MINIMUM 70% OF THE SPECIFIED 28-DAY COMPRESSIVE STRENGTH AS INDICATED BY TESTING SAMPLES.
- LAP SPICE LENGTHS SHALL BE A MINIMUM OF 48 BAR DIAMETERS UNLESS NOTED OTHERWISE.
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BEAMS AND COLUMNS NOT EXPOSED TO WEATHER	1 1/2"
SLABS ON GRADE (COVER FROM TOP OF SLAB)	1 1/2"
- VERTICAL AND HORIZONTAL REINFORCING INDICATED ON THE DRAWINGS SHALL BE DOWELED OUT OF THE FOUNDATION OR THE ELEMENT WHERE THE REINFORCING ORIGINATES, (SLAB BEAM, THE BEAM WALL, ETC.) UTILIZING AN ACI STANDARD HOOK EMBEDDED TO DEVELOP THE FULL ULTIMATE TENSILE STRENGTH OF THE BAR. FORMWORK REMOVAL IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. REMOVE FORMS IN SUCH A MANNER AS TO INSURE JOB SAFETY AND TO PREVENT DAMAGE TO, AND CREEP DEFLECTION OF THE STRUCTURE.
- IMMEDIATELY AFTER REMOVAL OF FORMS, REPAIR HONEYCOMBED OR DEFECTIVE AREAS WITH HIGH STRENGTH CEMENT GROUT. GROUT SHALL BE APPROVED BY THE STRUCTURAL ENGINEER. WHEN REINFORCING IS VISIBLE IN DEFECTIVE AREA, CONTACT THE STRUCTURAL ENGINEER IMMEDIATELY.

021100 - SOIL PREPARATION AND FOUNDATIONS

- NO GEOTECHNICAL REPORT WAS PROVIDED TO THE STRUCTURAL ENGINEER INDICATING FOUNDATION RECOMMENDATIONS BASED ON ACTUAL SOIL CONDITIONS. A PRESUMPTIVE BEARING PRESSURE OF 1,500 PSF BASED ON FBC TABLE 1606.2 WAS UTILIZED FOR FOUNDATION DESIGN.
- WHERE SATISFACTORY SUBSURFACE DATA IS NOT AVAILABLE OR WHERE THE BUILDING DESIGN DETERMINES NECESSARY, THE ALLOWABLE BEARING PRESSURE SHALL BE VERIFIED BY AN INSPECTION AND TESTING FIRM BEFORE FOOTINGS ARE PLACED AND THE FINDINGS SHALL BE PRESENTED IN THE FORM OF A SIGNED AND SEALED GEOTECHNICAL REPORT TO THE STRUCTURAL ENGINEER FOR REVIEW.
- THE CONTRACTOR SHALL PERFORM SITE PREPARATION AND DEWATERING REQUIREMENTS BASED ON THE FBC AND ACCEPTED INDUSTRY STANDARDS.
- REINFORCING SHALL BE SUPPORTED FROM ABOVE OR WITH 3" SBP (WITH BOTTOM PLATE) AT 4'-0" O.C. MAXIMUM FOR ALL FOUNDATION REINFORCING.
- REMOVE FREE WATER FROM EXCAVATIONS BEFORE PLACING CONCRETE.
- BACKFILL BELOW STRUCTURAL ELEMENTS TO BE A GRANULAR MATERIAL HAVING MINIMUM SIZE OF 3" AND LESS THAN 12% PASSING THE #200 SIEVE SIZE. FILL TO BE PLACED IN LIFTS OF ONE-FOOT OR LESS COMPACTED TO A MINIMUM OF 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE MODIFIED PROCTOR (ASTM D1557).
- THE CONTRACTOR SHALL COORDINATE THE ROUTING OF BELOW GRADE PIPING TO INSURE THAT PIPING DOES NOT PENETRATE THE MONOLITHIC FOUNDATION. NOTIFY THE STRUCTURAL ENGINEER OF DISCREPANCIES PRIOR TO INSTALLING BELOW GRADE PIPING THROUGH THE FOUNDATIONS. PIPING SHALL HAVE A MINIMUM CLEARANCE BELOW FOUNDATIONS AS DETERMINED BY THE CIVIL ENGINEER.

030000 - CAST-IN-PLACE CONCRETE

- CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF THE FOLLOWING CODES AND STANDARDS (LATEST EDITIONS):
 - A. ACI 308 "GUIDE TO GOOD PRACTICE FOR CONCRETE CONSTRUCTION"
 - B. ACI 117 "STANDARD TOLERANCES FOR CONCRETE CONSTRUCTION"
 - C. ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS"
 - D. ACI 304 "RECOMMENDED PRACTICE FOR MEASURING, MIXING, TRANSPORTING AND PLACING CONCRETE"
 - E. ACI 308 "RECOMMENDED PRACTICE FOR HOT WEATHER CONCRETING"
 - F. ACI 311 "RECOMMENDED PRACTICE FOR CONCRETE INSPECTION"
 - G. ACI 347 "RECOMMENDED PRACTICE FOR CONCRETE FORMWORK"
 - H. ACI 315 "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE - STRUCTURES"
 - I. ACI MANUAL OF CONCRETE PRACTICE PARTS 1 THRU 6 AS APPROPRIATE TO TYPE OF CONSTRUCTION.
- CONCRETE SHALL BE NORMAL WEIGHT UNLESS OTHERWISE NOTED AND SHALL CONFORM TO ASTM C-94 IN ADDITION TO THE FOLLOWING:
 - A. PORTLAND CEMENT SHALL MEET ASTM C-150 TYPE III
 - B. AGGREGATES FOR SLAB ON GRADE SHALL MEET ASTM C-33 (1" MAX)
 - B1. AGGREGATES ELSEWHERE SHALL MEET ASTM C-33 (3/4" MAX)
 - C. AIR ENTRAINING AGENT SHALL MEET ASTM C-260
 - D. WATER REDUCING AGENT SHALL MEET ASTM C-494
 - E. CALCIUM CHLORIDE SHALL NOT BE USED IN THE MIX
 - G. CURING COMPOUND SHALL MEET ASTM C309 TYPE 1 UNO
- CONCRETE SHALL HAVE THE MINIMUM ULTIMATE COMPRESSIVE STRENGTH AT 28 DAYS AS INDICATED BELOW. MIX DESIGNS SHALL BE APPROVED BY THE ENGINEER BEFORE USE. FLY ASH, SUBSTITUTING FOR CEMENT, SHALL NOT EXCEED 25% BY WEIGHT.

CONCRETE MIX REQUIREMENTS			
COMPONENT	28-DAY STRENGTH	W/C RATIO	SLUMP
SLAB-ON-GRADE	4,000 PSI	0.45	4 TO 6 IN
MONOLITHIC FOOTINGS	4,000 PSI	0.45	4 TO 6 IN
OTHER	3,000 PSI	0.50	4 TO 6 IN

- REINFORCING BARS USED IN CONCRETE SHALL BE GRADE 60 KSI DEFORMED BAR CONFORMING TO ASTM SPECIFICATION A-615. REINFORCEMENT SHALL BE REBAR OIL, AND SCALE FREE AND SHALL BE PLACED AND TIED TO THE FOUNDATION ENGINEER PRIOR TO FABRICATION OR CONSTRUCTION.
- ANCHOR BOLTS SHALL BE DESIGNED BY METAL BUILDING MANUFACTURER'S REGISTERED ENGINEER. SUBMIT SHOP DRAWINGS AND ANCHOR BOLT LAYOUTS TO FOUNDATION ENGINEER FOR REVIEW PRIOR TO CONSTRUCTION.
- THE ENGINEER OF RECORD RESERVES THE CHOICE TO INCREASE CERTAIN FOUNDATION SIZES UNDER THE METAL BUILDING COLUMNS IF THE REACTIONS REPORTED BY THE METAL BUILDING MANUFACTURER ARE SUBSTANTIALLY HIGHER THAN THOSE PRELIMINARY CALCULATED.

- CONCRETE SHALL BE CURED IN ACCORDANCE WITH ACI STANDARDS AND SPECIFICATIONS UTILIZING A CURING COMPOUND WITH FUGITIVE DYE. THE CONTRACTOR SHALL BEGIN CONCRETE CURING IMMEDIATELY AFTER FINISHING OPERATIONS ARE COMPLETED.
- CONCRETE ADHESIVES SHALL BE COORDINATED BY THE CONTRACTOR TO INSURE COMPATIBILITY WITH FLOOR COVERINGS, EXPOSED, POLISHED, AND STAINED FINISHES AS SPECIFIED BY THE ARCHITECT.
- CONCRETE TESTING SHALL BE REQUIRED FOR CAST-IN-PLACE CONCRETE ELEMENTS AND SHALL BE PERFORMED BY A QUALIFIED, INDEPENDENT TESTING LAB. MINIMUM TESTING SHALL BE FOR SLUMP IN ACCORDANCE WITH ASTM C143 AND FOR COMPRESSIVE STRENGTH IN ACCORDANCE WITH ASTM C39.
- CONCRETE STRENGTH TESTING SHALL BE CONDUCTED FOR EACH CLASS, FOR EVERY FIFTY CUBIC YARDS OF CONCRETE PLACED PER DAY. PLACEMENTS LESS THAN FIFTY CUBIC YARDS SHALL ALSO BE TESTED PER DAY FOR EACH CLASS. A MINIMUM OF FOUR LAB-CURED AND SIX FIELD-CURED CYLINDERS SHALL BE COLLECTED. TEST CYLINDERS PER SPECIFICATIONS. TWO CYLINDERS SHALL BE KEPT IN RESERVE AND TESTED, IF NECESSARY, WITH PRIOR APPROVAL FROM THE STRUCTURAL ENGINEER.
- MIX DESIGN SUBMITTALS SHALL BE SENT TO THE STRUCTURAL ENGINEER FOR REVIEW AND APPROVAL PRIOR TO CONCRETE PLACEMENT AND SHALL BE UNIQUELY IDENTIFIED WITH MIX NUMBER AND EXACT LOCATION WHERE MIX WILL BE PLACED ON THE STRUCTURE. SUBMITTALS SHALL INCLUDE DATA FROM RECENT FIELD AND LAB CYLINDER TESTS AND STATISTICAL TESTED BACK-UP DATA PER ACI 318.05.
- CONCRETE TICKETS FOR CONCRETE MIXES DELIVERED TO THE SITE SHALL IDENTIFY THE EXACT TIME THAT THE MIX IS BATCHED. CONCRETE PLACEMENT SHALL OCCUR WITHIN ONE AND A HALF HOURS FROM THE TIME THE PROPORTIONED MIXING WATER IS ADDED TO THE MIX FOR PLACEMENT. MIXES SHALL BE DISCARDED IF THIS TIMEFRAME IS EXCEEDED. IT SHALL BE THE RESPONSIBILITY OF THE INDEPENDENT TESTING LAB TO ASSURE COMPLIANCE WITH PLACING TIME AND TO NOTIFY THE CONTRACTOR AND OWNER OF NON-COMPLIANCE.
- CONCRETE FORMS SHALL NOT BE STRIPPED UNTIL CONCRETE HAS ATTAINED A MINIMUM 70% OF THE SPECIFIED 28-DAY COMPRESSIVE STRENGTH AS INDICATED BY TESTING SAMPLES.
- LAP SPICE LENGTHS SHALL BE A MINIMUM OF 48 BAR DIAMETERS UNLESS NOTED OTHERWISE.
- CONCRETE CLEAR COVER OVER REINFORCING SHALL BE IN ACCORDANCE WITH ACI 318 AS LISTED BELOW, UNLESS NOTED OTHERWISE:

LOCATION	CLEAR COVER
CAST AGAINST EARTH	3"
EXPOSED TO EARTH OR WEATHER #6 AND LARGER	1 1/2"
EXPOSED TO EARTH OR WEATHER #5 AND SMALLER	3/4"
SLABS AND WALLS NOT EXPOSED TO WEATHER	1 1/2"
BEAMS AND COLUMNS NOT EXPOSED TO WEATHER	1 1/2"
SLABS ON GRADE (COVER FROM TOP OF SLAB)	1 1/2"
- VERTICAL AND HORIZONTAL REINFORCING INDICATED ON THE DRAWINGS SHALL BE DOWELED OUT OF THE FOUNDATION OR THE ELEMENT WHERE THE REINFORCING ORIGINATES, (SLAB BEAM, THE BEAM WALL, ETC.) UTILIZING AN ACI STANDARD HOOK EMBEDDED TO DEVELOP THE FULL ULTIMATE TENSILE STRENGTH OF THE BAR. FORMWORK REMOVAL IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. REMOVE FORMS IN SUCH A MANNER AS TO INSURE JOB SAFETY AND TO PREVENT DAMAGE TO, AND CREEP DEFLECTION OF THE STRUCTURE.
- IMMEDIATELY AFTER REMOVAL OF FORMS, REPAIR HONEYCOMBED OR DEFECTIVE AREAS WITH HIGH STRENGTH CEMENT GROUT. GROUT SHALL BE APPROVED BY THE STRUCTURAL ENGINEER. WHEN REINFORCING IS VISIBLE IN DEFECTIVE AREA, CONTACT THE STRUCTURAL ENGINEER IMMEDIATELY.

050519 - CHEMICAL ADHESIVE FOR ANCHORING REINFORCING BARS, THREADED BARS AND ANCHOR BOLTS

- USE AN EPOXY, ACRYLIC OR POLYESTER RESIN ADHESIVE SYSTEM SUCH AS THE HILTI HY 200, T/W RAMSEYED HEAD EPOXY A7 OR CE INJECTION SYSTEM, POWERS RAWL POWER-FAST SYSTEM, SIMPSON STRONG-TIE AT OR ETALILED FASTENER ALLIED GOLD A-1000, OR ACCEPTED EQUIVALENT. FOLLOW MANUFACTURER'S SPECIFICATIONS FOR USE AND INSTALLATION.
- CONFIRM THE ABSENCE OF REINFORCING STEEL BY DRILLING A 1/4" DIAMETER PILOT HOLE FOR EACH ANCHOR. DO NOT CUT REINFORCING STEEL WITHOUT APPROVAL OF THE STRUCTURAL ENGINEER.
- THREADED RODS ARE A-36 GALVANIZED STEEL, UNLESS NOTED OTHERWISE.
- PROVIDE ANCHOR EMBEDMENT, SPACING AND EDGE DISTANCE AS SHOWN ON THE DRAWINGS.
- REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR APPROPRIATE DRILL SIZE, THOROUGHLY CLEAN HOLE INCLUDING REMOVAL OF DUST PRIOR TO FILLING WITH EPOXY. SEE NOTE BELOW.

NOTE: BLOW OUT HOLES WITH COMPRESSED AIR AND USE NYLON BRUSH PER MANUFACTURER'S RECOMMENDATIONS TO REMOVE COMPLETELY ALL DUST AND CHIPS BEFORE APPLYING EPOXY. ALL EPOXY WORK MUST BE INSPECTED FOR VERIFICATION.

133419 - PRE-ENGINEERED METAL BUILDING SYSTEMS

- FOUNDATION DESIGN IS FOR A PRE-ENGINEERED BUILDING BY OTHERS. SUBMIT BUILDING REACTIONS TO FOUNDATION ENGINEER FOR REVIEW PRIOR TO FOUNDATION POUR.
- PRE-ENGINEERED METAL BUILDING SYSTEM SHALL COMPLY WITH REQUIREMENTS OF MBMA'S METAL BUILDING SYSTEMS MANUAL.
- STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH AISC 360. FABRICATION FOR STRUCTURAL STEEL BUILDINGS, ROLLED SHAPES SHALL BE IN ACCORDANCE WITH ASTM A992 GRADE 50, UNLESS DESIGNED DIFFERENTLY BY PRE-ENGINEERED METAL BUILDING MANUFACTURERS ENGINEER.
- COLD-FORMED STEEL SHALL BE IN ACCORDANCE WITH AISI S100-07. SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS.
- PRE-ENGINEERED METAL BUILDING SHALL BE DESIGNED FOR ALL LOADS PRESCRIBED HEREIN. SUBMIT SHOP DRAWINGS SIGNED AND SEALED BY A REGISTERED ENGINEER IN THE STATE WHERE THE PROJECT IS LOCATED TO THE FOUNDATION ENGINEER PRIOR TO FABRICATION OR CONSTRUCTION.
- ANCHOR BOLTS SHALL BE DESIGNED BY METAL BUILDING MANUFACTURER'S REGISTERED ENGINEER. SUBMIT SHOP DRAWINGS AND ANCHOR BOLT LAYOUTS TO FOUNDATION ENGINEER FOR REVIEW PRIOR TO CONSTRUCTION.
- THE ENGINEER OF RECORD RESERVES THE CHOICE TO INCREASE CERTAIN FOUNDATION SIZES UNDER THE METAL BUILDING COLUMNS IF THE REACTIONS REPORTED BY THE METAL BUILDING MANUFACTURER ARE SUBSTANTIALLY HIGHER THAN THOSE PRELIMINARY CALCULATED.

STRUCTURAL ABBREVIATIONS

#	POUNDS	INV	INVERT
&	AND	Ip	MOMENT OF INERTIA
+/-	PLUS OR MINUS	JST	JOIST
@	AT	JOINT	JOINT
AE	ARCHITECT/ENGINEER	K	1,000 POUNDS (KIP)
AB	ANCHOR BOLTS	K	KEYWAY
KB	KEYWAY	KWY	KEYWAY
L	ANGLE	L	ANGLE
LDG	LANDING	LDG	LANDING
LG L	LONG ANGLE	LG L	LONG ANGLE
LGTH	LENGTH	LGTH	LENGTH
LLH	LONG LEG HORIZONTAL	LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL	LLV	LONG LEG VERTICAL
LT WT	LIGHT WEIGHT	LT WT	LIGHT WEIGHT
MATL	MATERIAL	MATL	MATERIAL
MAX	MAXIMUM	MAX	MAXIMUM
MB	MASONRY BEAM, MACHINE BOLT	MB	MASONRY BEAM, MACHINE BOLT
MECH	MECHANICAL	MECH	MECHANICAL
MEP, MEP/	MECHANICAL/ELECTRICAL/PLUMBING	MEP, MEP/	MECHANICAL/ELECTRICAL/PLUMBING
MET	METAL	MET	METAL
MFR	MANUFACTURE/MANUFACTURER	MFR	MANUFACTURE/MANUFACTURER
MIN	MINIMUM	MIN	MINIMUM
MID	MIDDLE	MID	MIDDLE
MISC	MISCELLANEOUS	MISC	MISCELLANEOUS
MO	MASONRY OPENING	MO	MASONRY OPENING
MPH	MILES PER HOUR	MPH	MILES PER HOUR
NC	NO CONTRACT	NC	NO CONTRACT
NS	NEAR SIDE	NS	NEAR SIDE
NTS	NOT TO SCALE	NTS	NOT TO SCALE
OC	ON CENTER	OC	ON CENTER
OD	OUTSIDE DIAMETER	OD	OUTSIDE DIAMETER
OF	OUTSIDE FACE	OF	OUTSIDE FACE
OH	OPPOSITE HAND	OH	OPPOSITE HAND
OPNG	OPENING	OPNG	OPENING
PAR	PARALLEL	PAR	PARALLEL
PC	PRECAST CONCRETE	PC	PRECAST CONCRETE
PCF	POUNDS PER CUBIC FEET	PCF	POUNDS PER CUBIC FEET

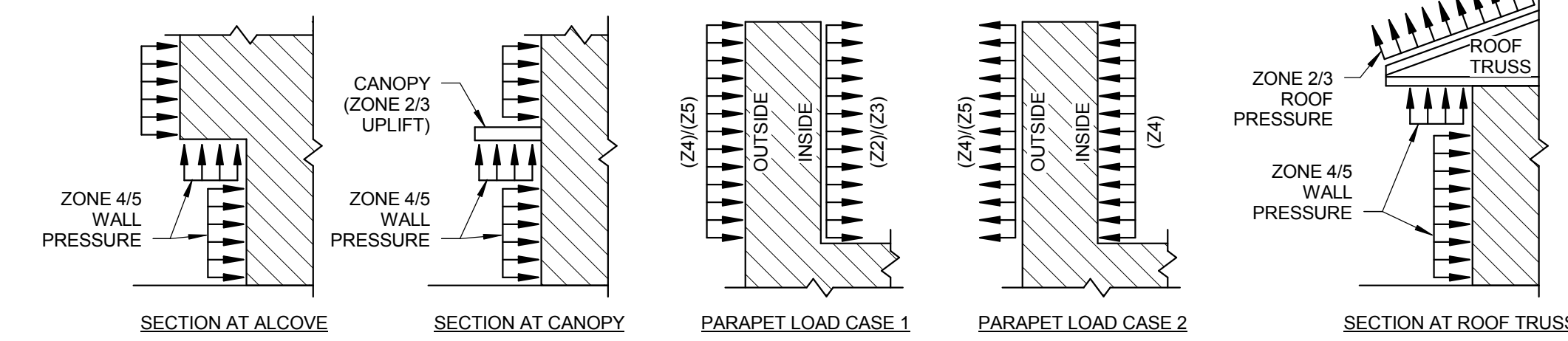
Orange County Convention Center West Concourse PEMB Buildings

9800 International Drive Orlando, FL 32819
Atkins Project # 100047904

NOMINAL C&C WIND PRESSURE (ASCE 7-10)													
BUILDING	a (FT)	Vult (MPH)	Vasd (MPH)	GCp	Area (SF)	ZONE (1) (PSF)	ZONE (2) (PSF)	ZONE (2H) (PSF)	ZONE (3) (PSF)	ZONE (3H) (PSF)	ZONE (4) (PSF)	ZONE (5) (PSF)	
PEMB	4	129	100	+/- 0.18	-	-10	+10.0	+10.0	+10.0	+10.0	+10.0	+21.1	
						-25.0	-25.0	-28.9	-43.0	-38.7	-72.2	-25.0	-30.8
						20	+10.0	+10.0	+10.0	+10.0	+10.0	+20.2	+28.2
						-25.0	-25.0	-28.3	-43.0	-35.1	-65.2	-24.0	-28.8
						50	+10.0	+10.0	+10.0	+10.0	+10.0	+18.9	+18.9
100	+10.0	+10.0	+10.0	+10.0	+10.0	+18.0	+18.0						
500+	-	-	-	-	-	+15.8	+15.8						
						-25.0	-26.9	-43.0	-26.9	-48.8	-21.5	-24.0	
						-	-	-	-	-	-19.1	-19.1	

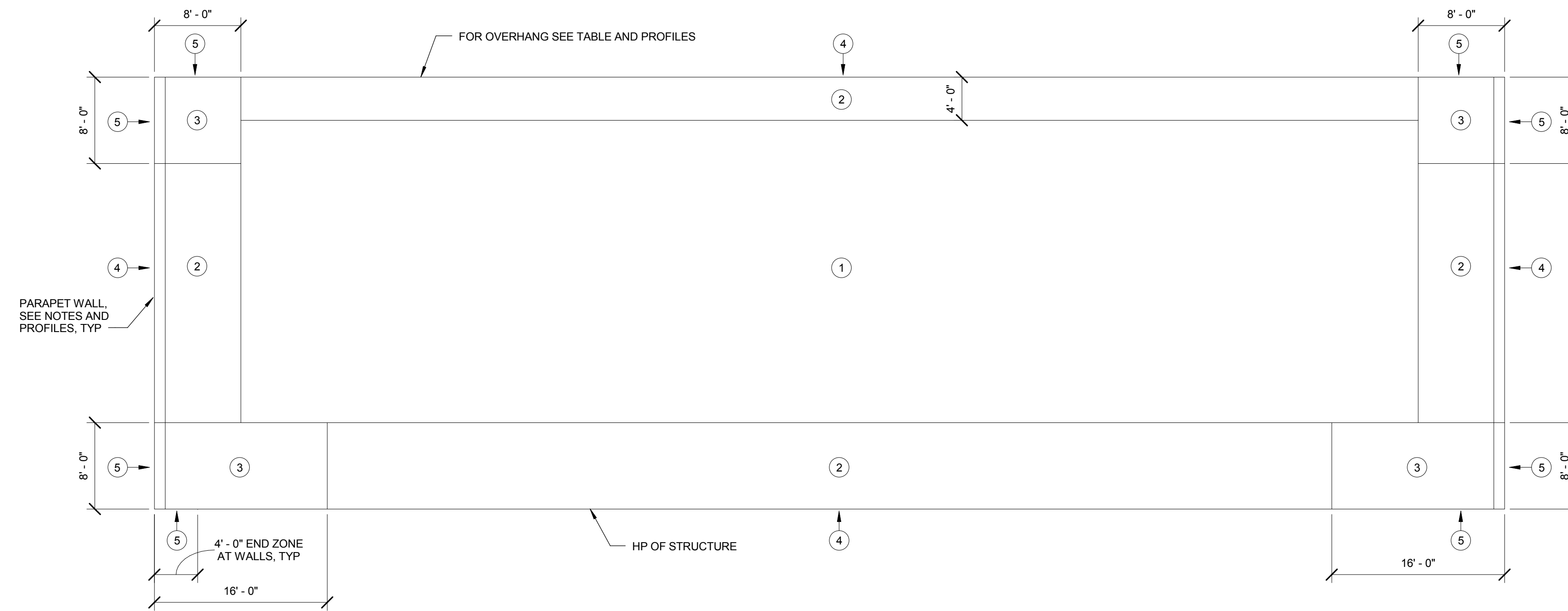
NOMINAL C&C WIND PRESSURE PLAN NOTES:

- PRESSURES INDICATED ARE NOMINAL COMPONENTS AND CLADDING GROSS PRESSURES, CONVERTED FROM ULTIMATE PRESSURES USING A 0.9 MULTIPLIER FACTOR. NO FURTHER REDUCTION IS ALLOWED.
- a - INDICATES END ZONE WIDTH IN FT.
- Vult AND Vasd INDICATE ULTIMATE AND NOMINAL DESIGN WIND SPEED IN MPH RESPECTIVELY.
- GROSS PRESSURES SHALL BE LINEARLY INTERPOLATED FOR (A) NOT SHOWN IN TABLE (UPWARD SUCTION ON TOP AND UPWARD PRESSURE ON BOTTOM, SUCH AS AT OPEN SOFFITS), AND IS CONTINUOUS WITH FIELD OF ROOF.
- GROSS PRESSURES ARE FOR JOISTS, WINDOWS, DOORS, VENEER, LIGHT GAGE METAL FRAMING, METAL DECK ATTACHMENTS, ROOFING, ROOFING ACCESSORIES AND OTHER BUILDING COMPONENTS AND CLADDING.
- POSITIVE PRESSURES INDICATE PRESSURES ACTING TOWARD A PROJECTED SURFACE. NEGATIVE PRESSURES INDICATE PRESSURES ACTING AWAY FROM A PROJECTED SURFACE.
- ROOF ZONES INCLUDING END CONDITIONS ARE DENOTED AS (1) THRU (3).
- WALL ZONES INCLUDING END CONDITIONS ARE DENOTED AS (4) AND (5).
- OVERHANG ZONES (2H) AND (3H) APPLY ONLY TO ROOF OVERHANGS WHERE THE COMPONENT OR CLADDING RECEIVES PRESSURE SIMULTANEOUSLY ON BOTH SIDES (UPWARD SUCTION ON TOP AND UPWARD PRESSURE ON BOTTOM, SUCH AS AT OPEN SOFFITS), AND IS CONTINUOUS WITH FIELD OF ROOF.
- NET DESIGN ROOF PRESSURES SHALL BE CALCULATED USING THE SELFWEIGHT (DEAD LOAD) OF THE MATERIALS. THE MAXIMUM REDUCTION OF GROSS WIND UPLIFT PRESSURES SHALL BE LIMITED TO THE SELF WEIGHT OF THE ROOF SYSTEM PLUS 5 PSF MAXIMUM FOR SUPERIMPOSED DEAD LOADS.
- AT ALCOVES AND CANOPIES, THE TOTAL UPLIFT PRESSURE ON THE ALCOVE SOFFIT OR CANOPY SHALL EQUAL THE WALL PRESSURE IN THAT AREA.
- PARAPET DESIGN WIND PRESSURE LOAD CASES:
LOAD CASE 1: OUTSIDE FACE: +51.9 PSF (ZONE 4) AND +51.9 PSF (ZONE 5)
INSIDE FACE: -110.3 PSF (ZONE 2) AND -162.8 PSF (ZONE 3)
LOAD CASE 2: OUTSIDE FACE: -51.9 PSF (ZONE 4) AND -95.2 PSF (ZONE 5)
INSIDE FACE: +51.9 PSF



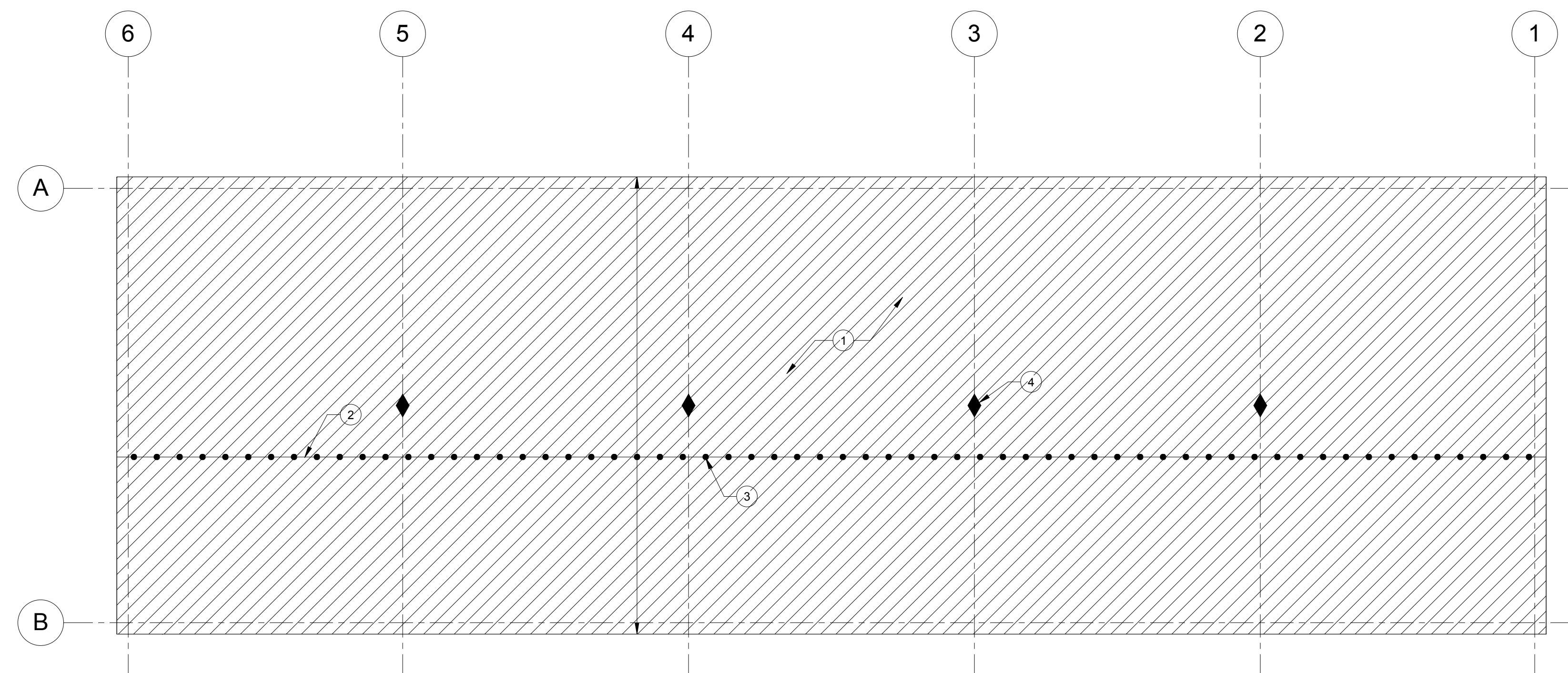
WINDOWS/DOORS PERFORMANCE REQUIREMENTS:

PROVIDE WINDOW, DOOR AND FRAME SYSTEMS THAT COMPLY WITH PERFORMANCE REQUIREMENTS INDICATED AS DEMONSTRATED BY TESTING MANUFACTURER'S ASSEMBLIES IN ACCORDANCE WITH FLORIDA BUILDING CODE TEST PROTOCOLS TAS 201, TAS 202 AND TAS 203.



2 ROOF ZONE UPLIFT PLAN
S-002 1/8" = 1'-0"

1 COMPONENTS & CLADDING BUILDING WIND PRESSURES
S-002 3/4" = 1'-0"



KEY NOTES

- IN ADDITION TO UNIFORM LOADS INDICATED ON S-001, SHADED REGION SHALL BE DESIGNED BY PEMB MFR FOR AN ADDITIONAL UNIFORM LINE LOADING OF 20 LB/FT SPACED NO CLOSER THAN 4'-0" APART.
- LOADING IS BASED ON LIGHT FIXTURE PAR 64 STANDARD SUPPORTED BY SCH40 1 1/2" PIPE WITH HEAVY GAGE WIRE SUPPORTED FROM PEMB STRUCTURE ABOVE BASED ON INFORMATION PROVIDED BY THE OWNER. NOTIFY ENGINEER OF DISCREPANCIES BETWEEN LOADING ASSUMPTIONS AND FINAL PROPOSED CONDITIONS PRIOR TO DESIGN AND FABRICATION OF PEMB.
- INSTALLED ASSEMBLY TO BOTTOM OF HUNG EQUIPMENT REQUIRES A MIN 10'-0" CLEAR FROM FINISHED FLOOR.
- DESIGN FOR 700 LB POINT LOAD AT BEAM CENTER FOR CHAIN HOIST SYSTEM.

3 NON-UNIFORM LOADING PLAN
S-002 1/8" = 1'-0"

No.	Date	Description
	12/01/2015	60% Design Documents
	01/22/2016	90% Design Documents
	03/21/2016	100% Design Documents
	04/08/2016	Permit and Bid Documents

ISSUE LOG
PROFESSIONAL SEALS:

SHEET TITLE:

LOAD DIAGRAMS

SHEET INFORMATION:	
JOB No. 100047904	Date Issued: 04-08-2016
Drawn By: CAS	Sheet Number:
Checked By: JFY	
QC Review: PRD	
Phase:	

S-002



PROJECT NAME:

Orange County Convention Center West Concourse PEMB Buildings

9800 International Drive Orlando, FL 32819
Atkins Project # 100047904

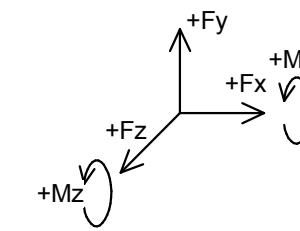
No.	Date	Description
	12/01/2015	60% Design Documents
	01/22/2016	90% Design Documents
	03/21/2016	100% Design Documents
	04/08/2016	Permit and Bid Documents

ISSUE LOG
PROFESSIONAL SEALS:

SHEET TITLE:
**MONOLITHIC SLAB AND FND
REACTION PLAN**

SHEET INFORMATION:	
JOB No. 100047904	Date Issued: 04-08-2016
Drawn By: CAS	Sheet Number:
Checked By: JFY	
QC Review: PRD	
Phase:	S-101

PRESUMED PRELIMINARY REACTIONS TO FOUNDATION (KIPS, K-FT)																
LOAD (K)	SUPERIMPOSED DEAD				ROOF LIVE				WIND [+X,+Y]				WIND [-X,-Y]			
	HORIZ X	HORIZ Z	VERT	MOMENT X	HORIZ X	HORIZ Z	VERT	MOMENT X	HORIZ X	HORIZ Z	VERT	MOMENT X	HORIZ X	HORIZ Z	VERT	MOMENT X
A	---	+0.4	+2.6	---	---	+1.0	+6.2	---	---	-8.2	-15.0	---	---	12.3	-6.6	---
B	---	-0.4	+2.6	---	---	-1.0	+6.2	---	---	0.2	-15.0	---	---	13.9	-23.4	---
C	---	+0.2	+1.3	---	---	+0.5	+3.1	---	---	-4.1	-7.6	---	---	6.2	-3.4	---
D	---	-0.2	+1.3	---	---	-0.5	+3.1	---	---	0.1	-7.6	---	---	7.0	-11.8	---
E	+0.1	---	+0.4	+0.3	---	+0.3	---	+1.3	+1.2	---	-8.8	---	-8.8	-63.3	---	+6.8
F	-0.1	---	+0.4	-0.3	---	-0.3	---	+1.3	-1.2	---	-6.8	---	-6.8	-54.1	---	+8.8
G	+0.1	---	+0.4	+0.3	---	+0.2	---	+1.3	+1.2	---	-8.3	---	-8.3	-97.5	---	+7.4
H	-0.1	---	+0.4	-0.3	---	-0.2	---	+1.3	-1.2	---	-7.4	---	-7.4	-90.4	---	+8.3



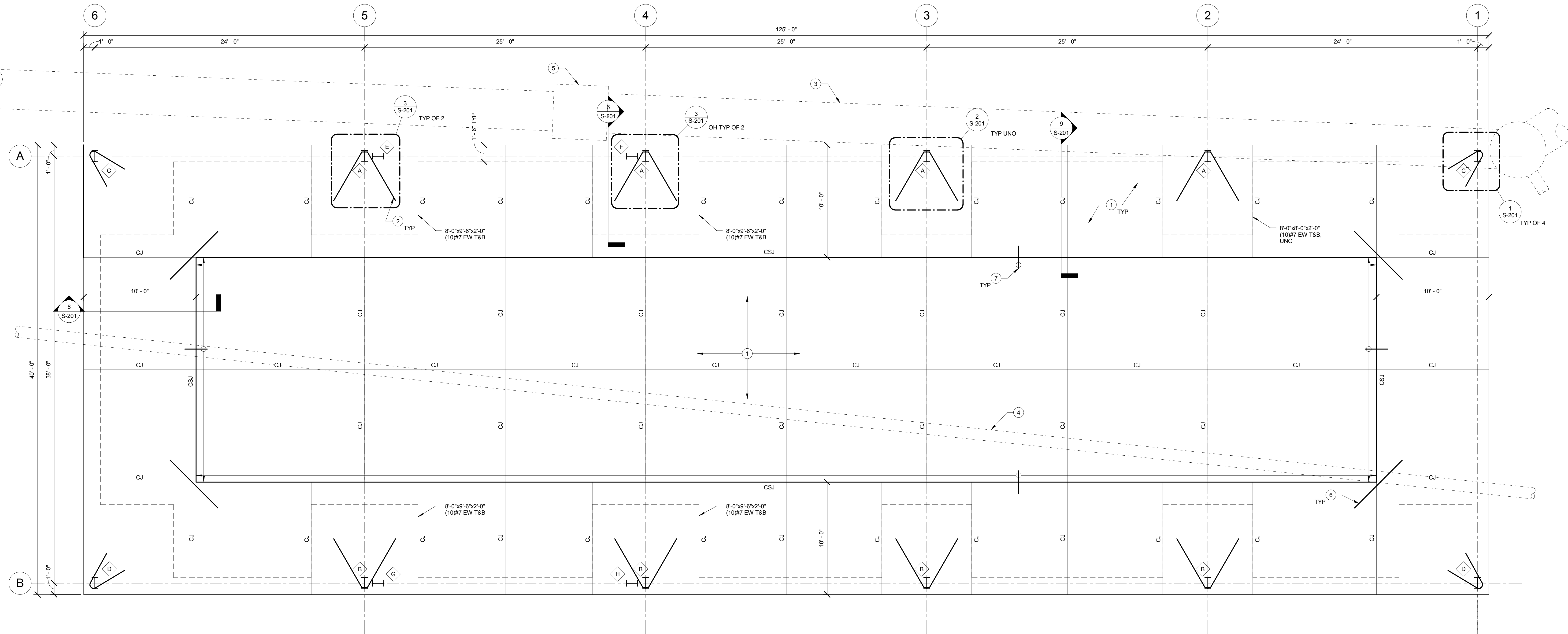
2 SCHEDULE OF PRESUMED PRELIMINARY REACTIONS
S-101 3/4" = 1'-0"

KEY NOTES

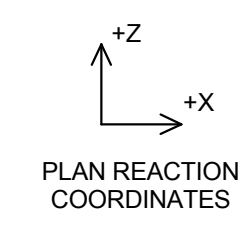
- SLAB ON GRADE SHALL BE A MINIMUM OF 8" THICK WITH #4@12" OC EW T&B AND SHALL BEAR ON 8" OF 3/4" CRUSHED ROCK AND COMPACTED SUBGRADE MEETING THE REQUIREMENTS DEFINED BY THE GEOTECHNICAL ENGINEER. PROVIDE A CLASS A, 10 MIL VAPOR BARRIER BENEATH SLAB.
- PROVIDE HAIRPIN REINFORCING HORIZONTALLY AT PEMB FRAMES TO CONFINE ANCHOR RODS. REFER TO DETAILS FOR ADDITIONAL INFORMATION.
- EXISTING 42" DIAMETER STORM LINE TO REMAIN. REFER TO CIVIL DRAWINGS FOR VARYING INVERT ELEVATIONS.
- EXISTING 12" SANITARY LINE TO REMAIN. REFER TO CIVIL DRAWINGS FOR VARYING INVERT ELEVATIONS.
- EXISTING STORM INLET TO REMAIN. REFER TO CIVIL DRAWINGS FOR TOP AND INVERT ELEVATION. MONOLITHIC FOUNDATION SHALL BE CLEAR OF INLET STRUCTURE. NOTIFY ENGINEER OF DISCREPANCIES.
- (2)#6 x 6'-0" TOP-RE-ENTRY 4" APART HORIZONTALLY AS MANUFACTURED BY SIKKA GREENSTREAK.

FOUNDATION PLAN NOTES

- REFER TO GENERAL STRUCTURAL NOTES AND PROJECT SPECIFICATIONS FOR DEFINITION OF SYMBOLS, ABBREVIATIONS, AND OTHER INFORMATION AND CRITERIA NOT SHOWN ON PLAN.
- FOUNDATION SIZES INDICATED ARE BASED ON THE SUBSURFACE RECOMMENDATIONS PROVIDED BY THE GEO-TECHNICAL ENGINEER FOR THE PROJECT. REFER TO STRUCTURAL GENERAL NOTES FOR ADDITIONAL INFORMATION.
- VERIFY DIMENSIONS, ELEVATIONS, DEPRESSIONS, DRAIN LOCATIONS, FINISHES AND LIMITS THEREOF, AND INFORMATION NOT EXPLICITLY INDICATED ON CONTRACT DOCUMENTS WITH THE ARCHITECTURAL, CIVIL, AND MEPFP DRAWINGS PRIOR TO CONSTRUCTION.
- COLUMN, PIER, AND WALL CENTERLINES SHALL COINCIDE WITH FOUNDATION CENTERLINES UNLESS NOTED OTHERWISE ON PLAN, SECTIONS, AND DETAILS.
- ALL REINFORCING IN FOUNDATION CORNERS, INTERSECTIONS, TEES, AND CHANGES IN DIRECTION SHALL BE CONTINUOUS AND CORNER REINFORCING SHALL BE PROVIDED AND LAPPED. SEE DETAIL FOR ADDITIONAL INFORMATION.
- REFER TO CIVIL AND ARCHITECTURAL DRAWINGS FOR SLABS AND SLAB PADS OUTSIDE OF BUILDING FOOTPRINT.
- EDGE OF SLAB DIMENSIONS AS WELL AS DEPRESSIONS REQUIRED FOR ARCHITECTURAL FLOOR FINISHES AND DRAINAGE SHALL BE COORDINATED WITH ARCHITECTURAL AND MEPFP DRAWINGS.



1 MONOLITHIC FOUNDATION PLAN
S-101 1/4" = 1'-0" T/ SLAB ELEV 0'-0" UNO



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Orange County Convention Center West Concourse PEMB Buildings

9800 International Drive Orlando, FL 32819

Atkins Project # 100047904

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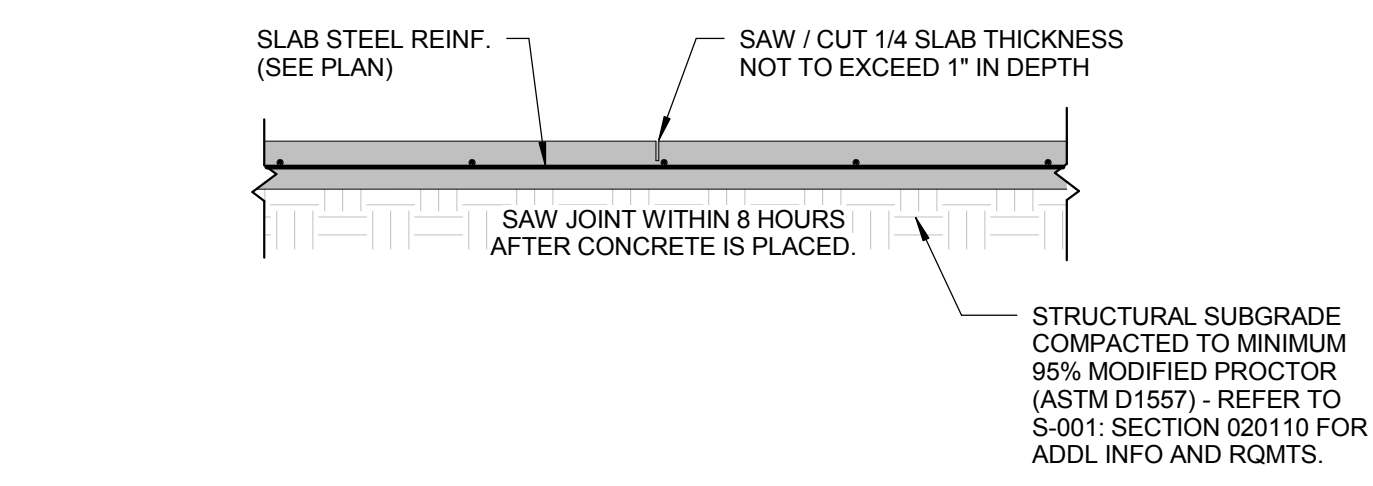
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SHEET TITLE:

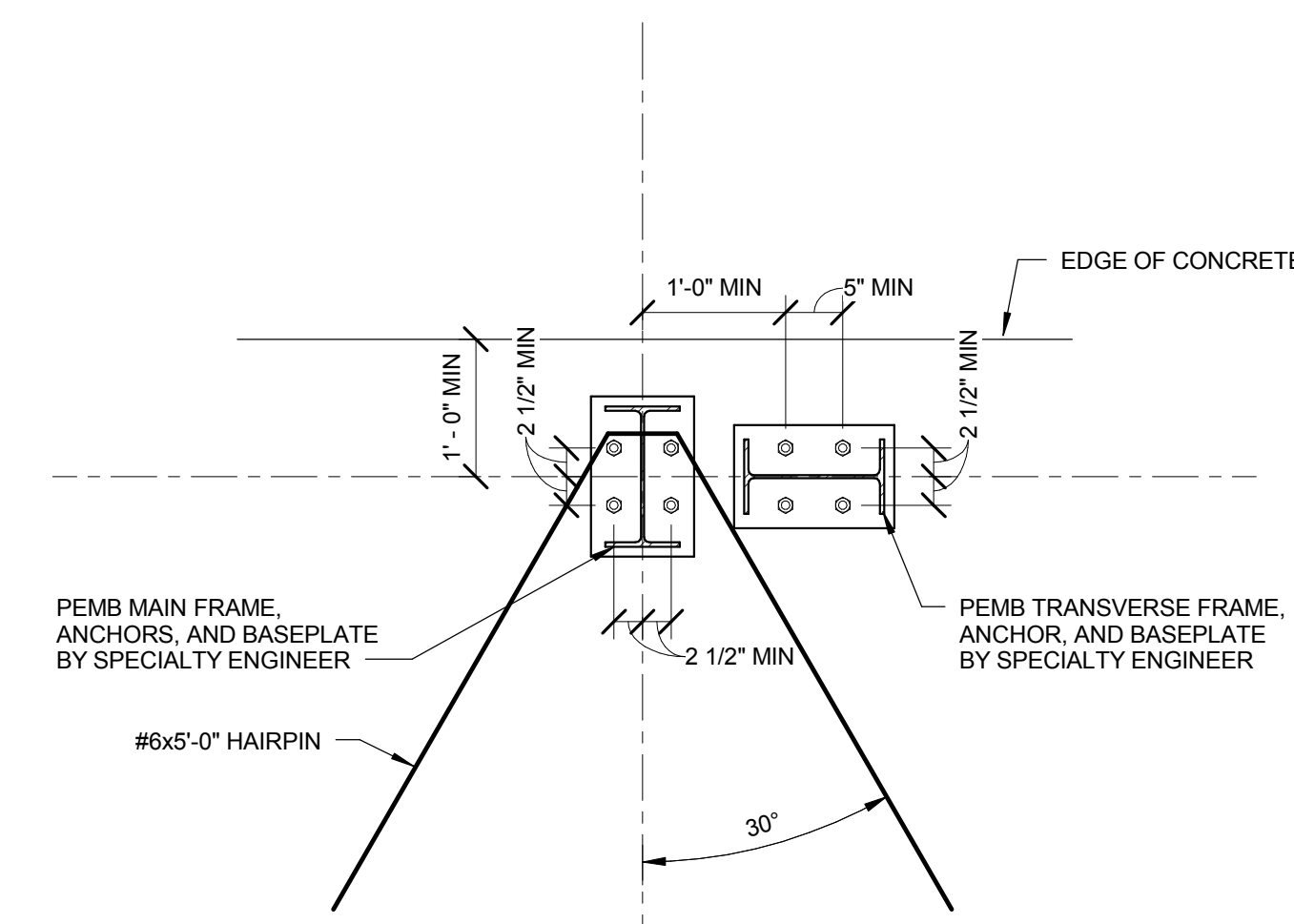
FOUNDATION SECTIONS AND DETAILS

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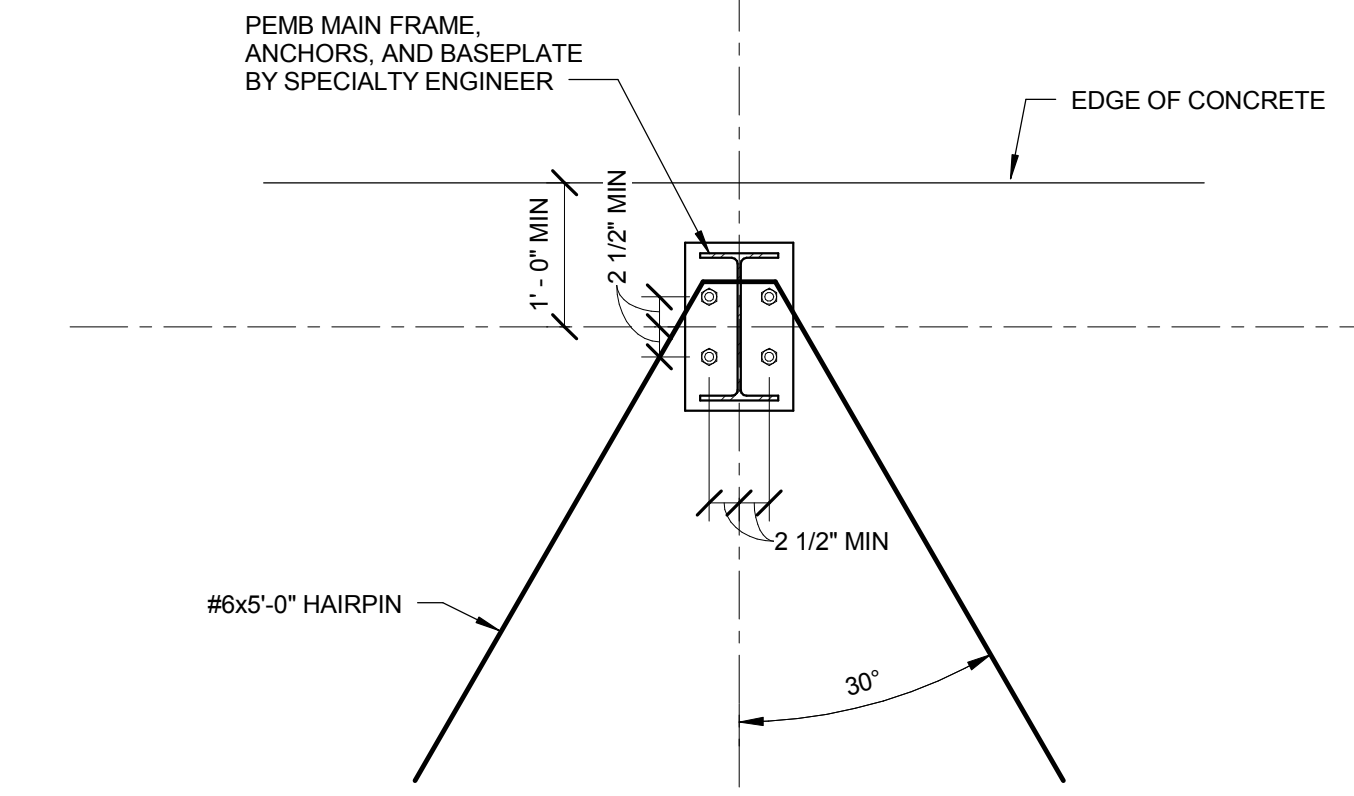
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Drawn By: CAS	Sheet Number:
Checked By: JFY	S-201
OC Review: PRD	
Phase:	



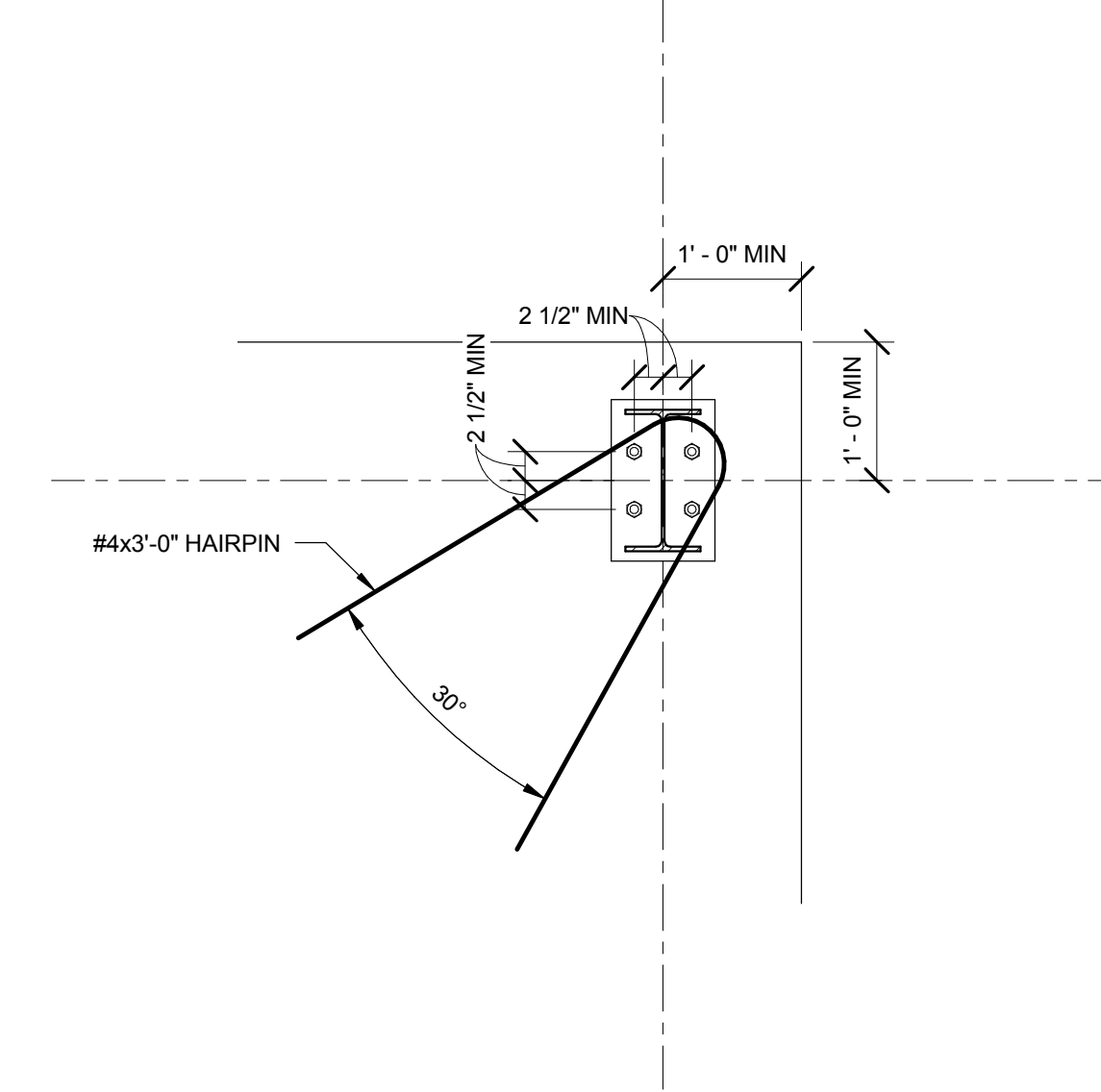
4 SLAB CONTROL DETAIL
S-201 3/4" = 1'-0"



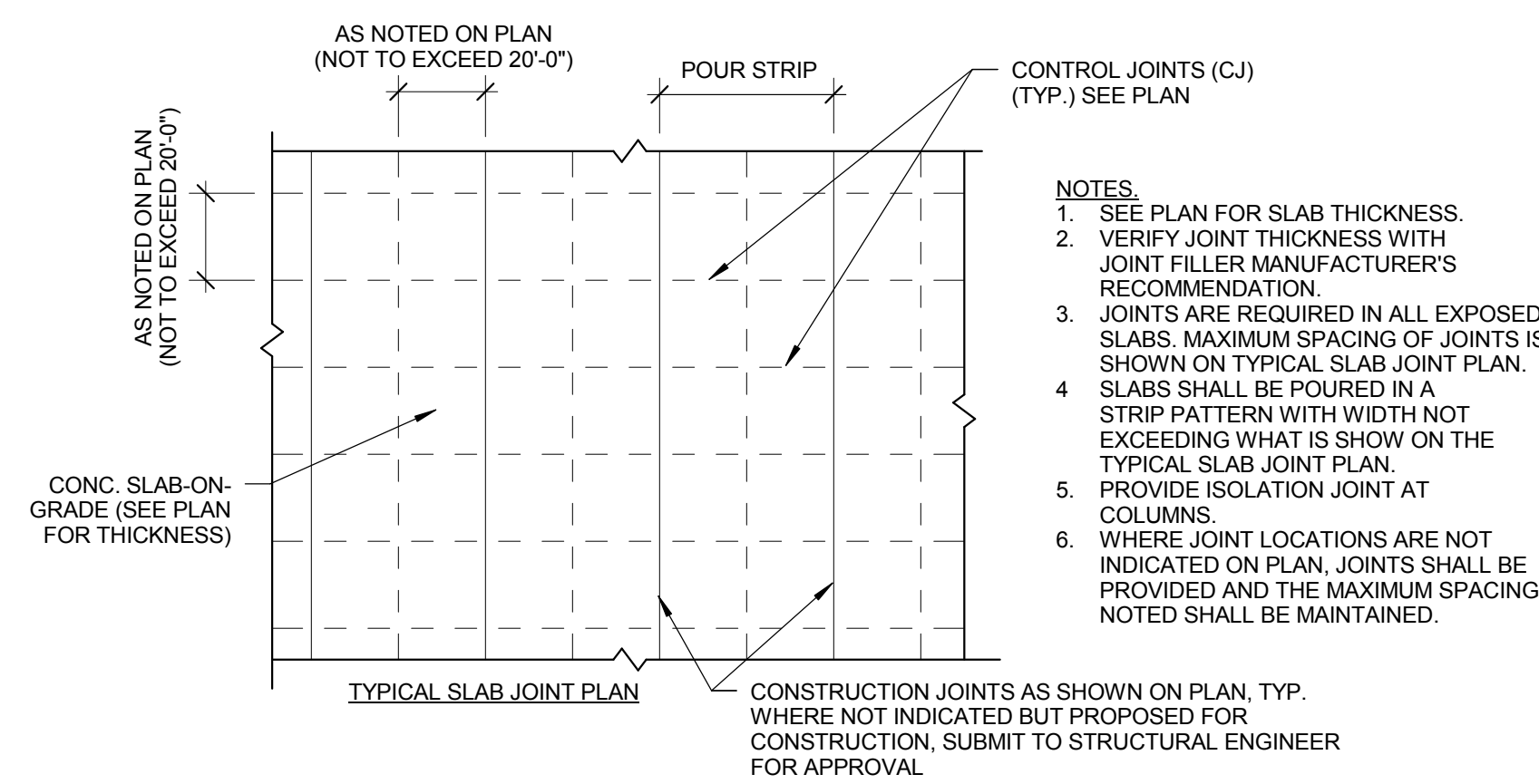
3 TYPICAL DETAIL AT COMBINED FRAME
S-201 3/4" = 1'-0"



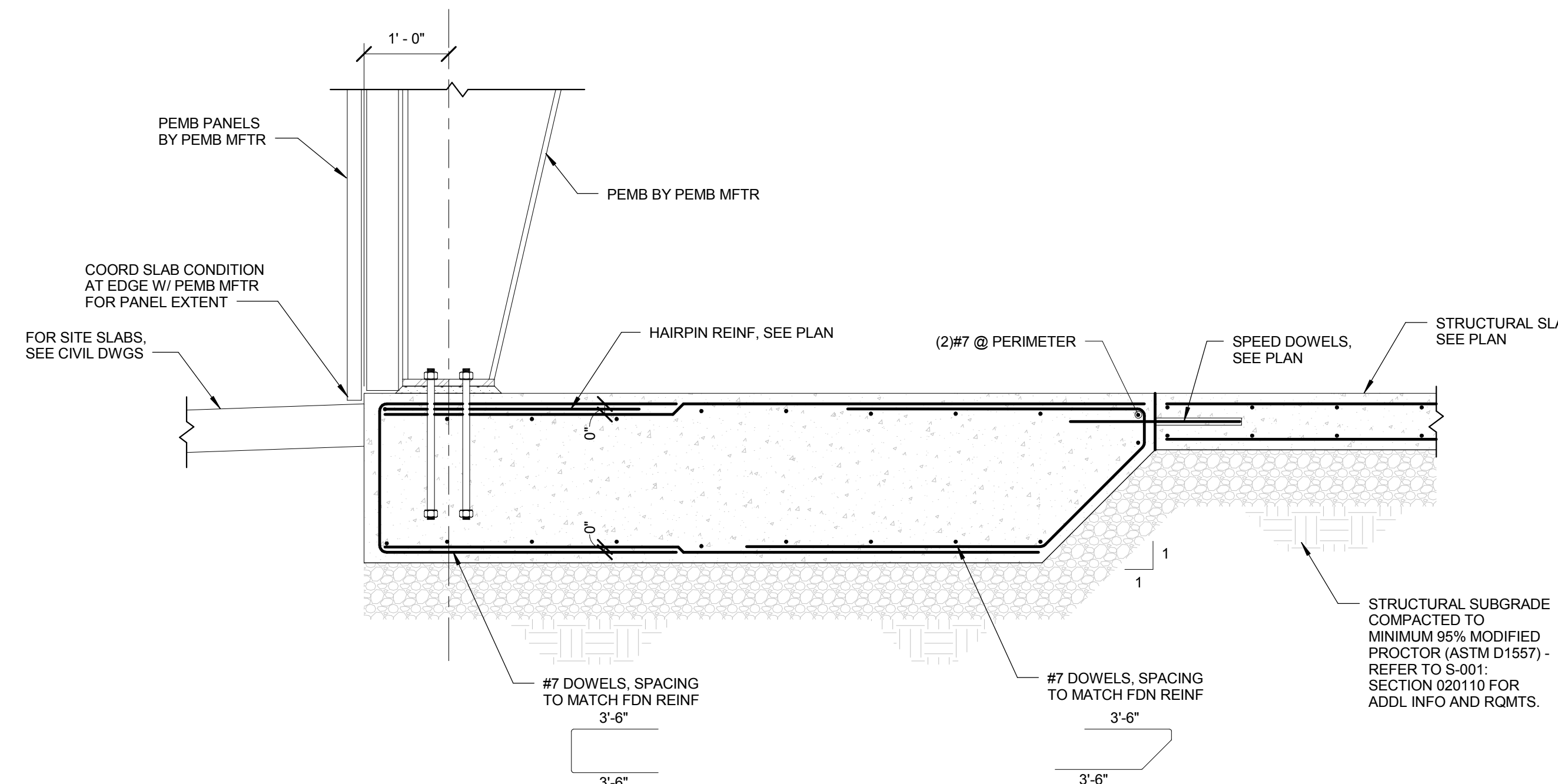
2 TYPICAL DETAIL AT EDGE
S-201 3/4" = 1'-0"



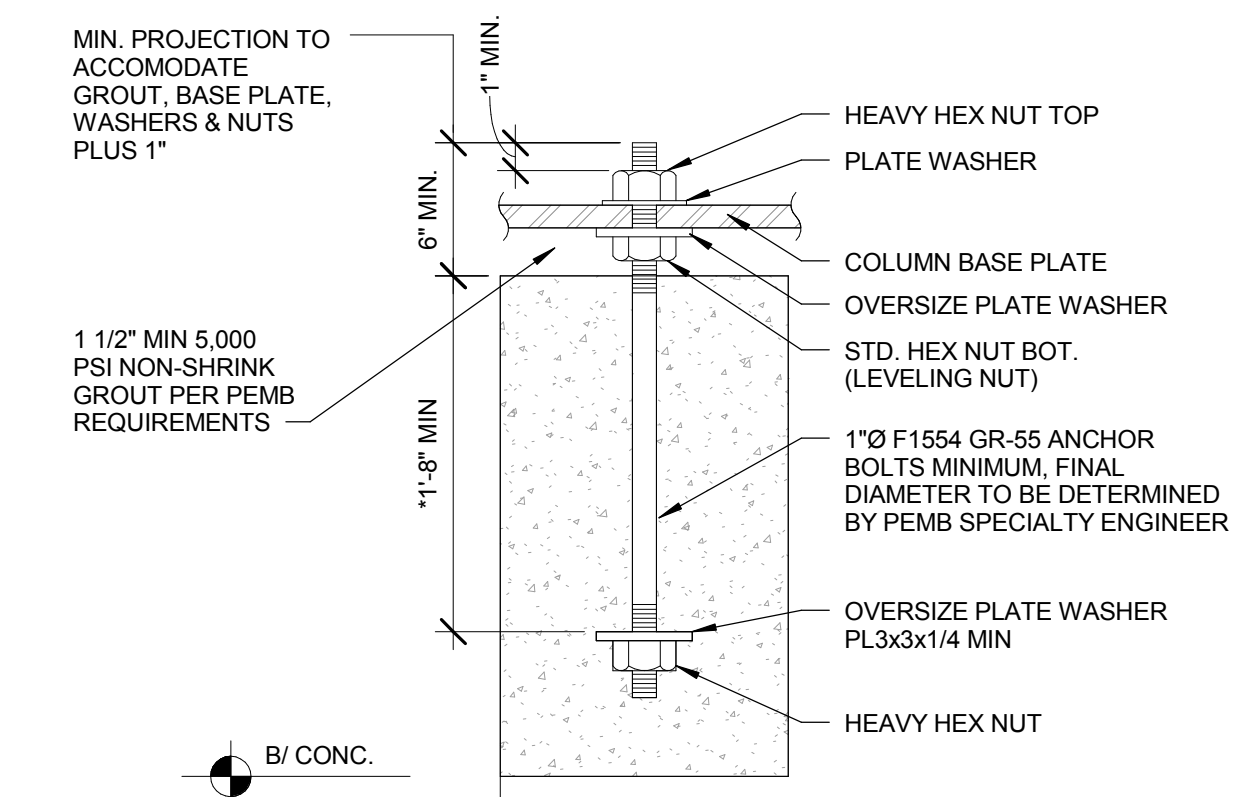
1 TYPICAL DETAIL AT CORNER
S-201 3/4" = 1'-0"



7 SLAB ON GRADE JOINT DETAIL
S-201 3/4" = 1'-0"

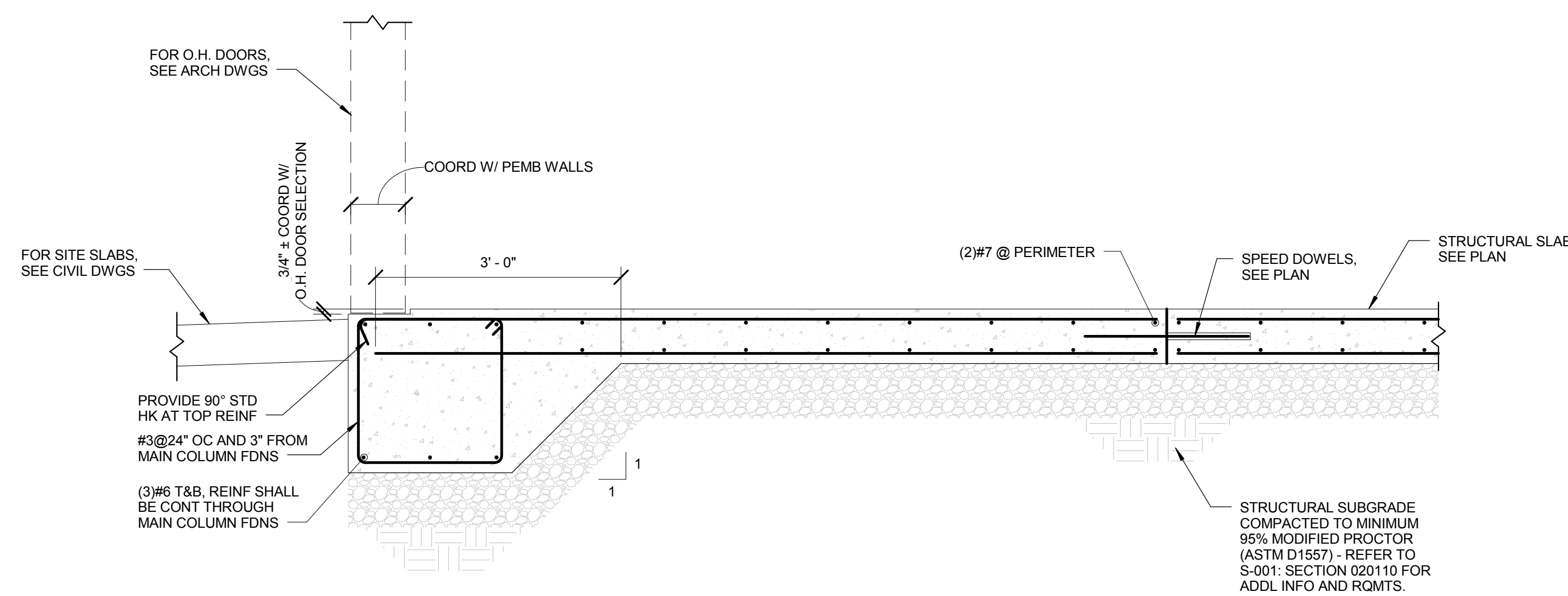


6 SECTION @ PEMB COLUMN
S-201 3/4" = 1'-0"

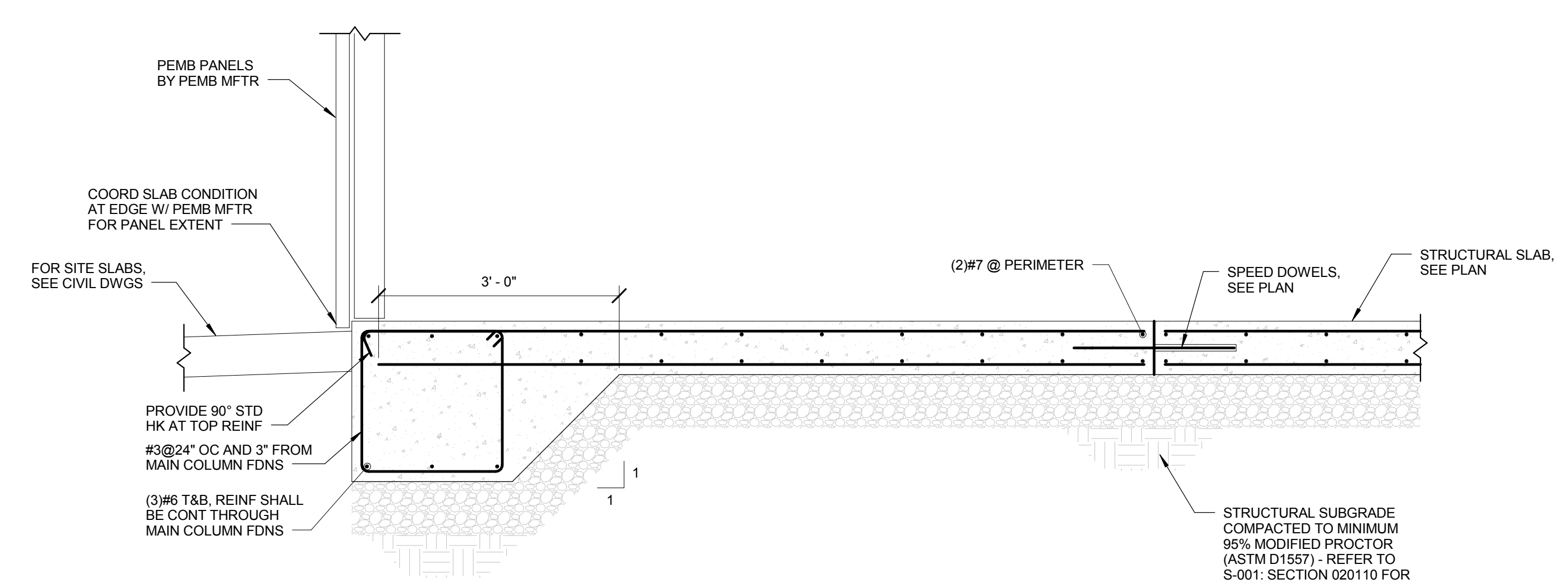


- NOTES:
- HEAVY HEX NUT AT THE EMBEDDED END SHALL BE TACK WELDED TO THE ANCHOR BOLT.
 - UNLESS NOTED OTHERWISE ALL BOLTS SHALL BE TIGHTENED TO A "SNUG TIGHT" CONDITION AS DEFINED BY AISC AFTER THE CONCRETE IS AT LEAST 14 DAYS OLD.
 - THE HOLE IN THE BASE PLATE AND PLATE WASHER SHALL BE 1/16" LARGER THAN THE BOLT DIAMETER.
 - ALL ANCHOR BOLTS SHALL BE HOT DIPPED GALVANIZED W/ GALVANIZED WASHERS.
- * EMBEDMENT DEPTH IS BASED ON ANCHOR DIAMETER AND GRADE INDICATED. REDUCTIONS IN ANCHOR SIZE AND GRADE WILL REQUIRE RE-ENGINEERING FOR EMBEDMENT DEPTH.

5 TYP. ANCHOR BOLT DIAGRAM
S-201 3/4" = 1'-0"



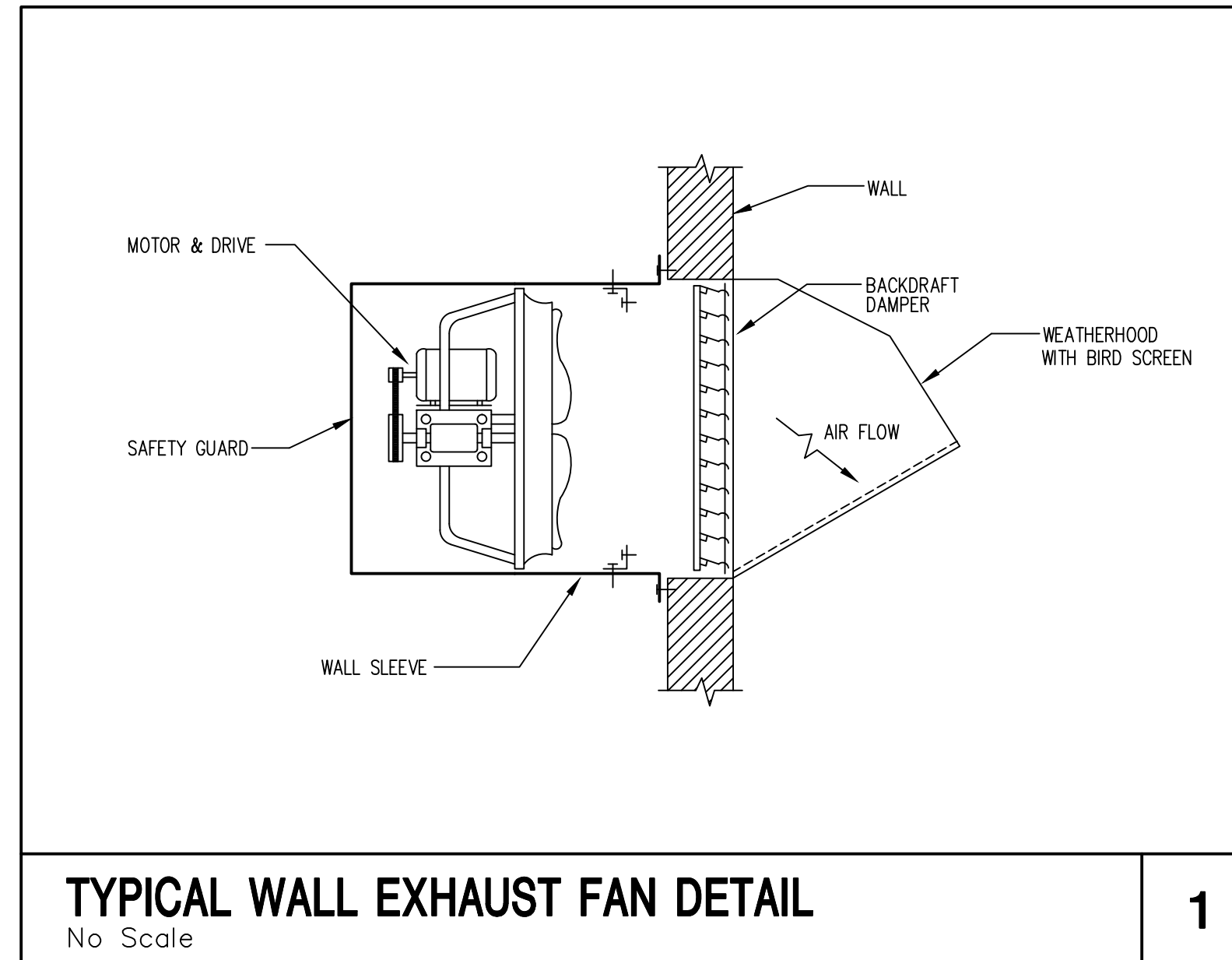
9 SECTION @ DOORS
S-201 3/4" = 1'-0"



8 SECTION @ WALLS
S-201 3/4" = 1'-0"

HVAC GENERAL NOTES

- CONNECTION TO EQUIPMENT SHALL BE VERIFIED WITH MANUFACTURER'S CERTIFIED DRAWINGS. TRANSITIONS TO ALL EQUIPMENT SHALL BE VERIFIED AND PROVIDED FOR EQUIPMENT FURNISHED.
- DIMENSIONS SHALL BE FIELD-VERIFIED AND COORDINATED PRIOR TO PROCUREMENT OR FABRICATION. COORDINATE THE WORK WITH OTHER TRADES INVOLVED. FIELD MODIFICATIONS SUCH AS OFFSETS IN EQUIPMENT OR DUCTWORK NEEDED DUE TO OBSTRUCTIONS OR INTERFERENCES SHALL BE PROVIDED AT NO ADDITIONAL COST.
- DUCT CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE SMACNA HVAC DUCT CONSTRUCTION STANDARD.
- DUCT SIZES AND ALL OPENINGS THROUGH BUILDING CONSTRUCTION SHALL SUIT EQUIPMENT FURNISHED.
- ALL EQUIPMENT, DUCTWORK, ETC., SHALL BE SUPPORTED AS DETAILED AND/OR SPECIFIED. PROVIDE ADDITIONAL SUPPORTS AS REQUIRED TO PROVIDE A VIBRATION-FREE, RIGID INSTALLATION.
- ALL DUCT SIZES SHOWN ARE INSIDE CLEAR DIMENSIONS.
- REFER TO TYPICAL DETAILS FOR DUCT SUPPORTS AND INSTALLATION OF EQUIPMENT.
- ALL DUCTWORK AND EQUIPMENT IS SHOWN SCHEMATICALLY. PROVIDE ALL TRANSITIONS, TURNING VANES, ELBOWS, FITTINGS, ETC., TO ALLOW SMOOTH FLOWS.



TYPICAL WALL EXHAUST FAN DETAIL
No Scale

1

FAN SCHEDULE

PLAN MARK	MODEL NO.	TYPE	CFM	ESP (\"W.C.)	FAN RPM	MOTOR RPM	HP	VOLT/ PHASE	DRIVE TYPE	FAN SERVICE	ACCESSORIES
EF-1	SE1-16-428	WALL-PROPELLER	2500	0.5	1750	1750	1/2	120/1	DIRECT	STORAGE BLDG	1,2,3,4,7,8,9
EF-2	SE1-16-428	WALL-PROPELLER	2500	0.5	1750	1750	1/2	120/1	DIRECT	STORAGE BLDG	1,2,3,4,7,8,9

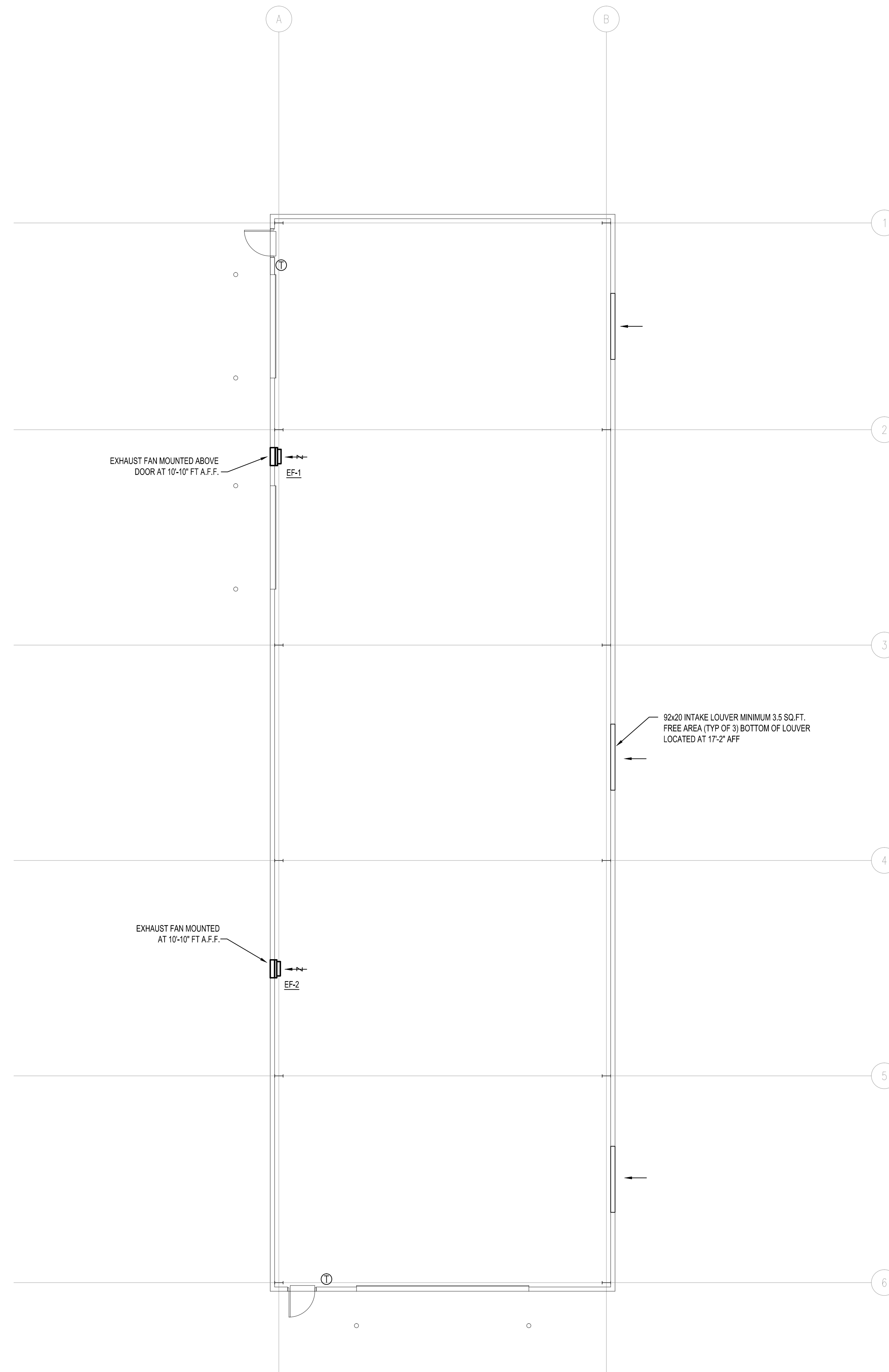
NOTES:
1. MODEL NUMBERS AND FAN SELECTION ARE BASED ON GREENHECK.
2. EXHAUST FAN SHALL BE CONTROLLED BY WALL MOUNTED THERMOSTAT SET AT 80 DEG F (ADJ).

ACCESSORIES:
1) BACKRAFT DAMPER 3) BIRDSCREEN 5) EQUIPMENT SUPPORTS 7) WALL COLLAR 9) WEATHERHOOD
2) THERMOSTAT 4) DISCONNECT SWITCH 6) FILTERS 8) MOTOR GUARD

SPECIFICATIONS:

PROPELLER FANS

- A. Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
- Greenheck
 - Loren Cook Company.
 - Cincinnati Fan
 - PennBarry
- B. Housing: Galvanized-steel sheet with flanged edges and integral orifice ring with baked-enamel finish coat applied after assembly.
- C. Steel Fan Wheels: Formed-steel blades riveted to heavy-gage steel spider bolted to cast-iron hub.
- D. Fan Wheel: Replaceable, cast-aluminum, airfoil blades fastened to cast-aluminum hub; factory set pitch angle of blades.
- E. Fan Drive: Motor mounted in airstream, factory wired to disconnect switch located on outside of fan housing.
- F. Fan Drive:
- Resiliently mounted to housing.
 - Statically and dynamically balanced.
 - Selected for continuous operation at maximum rated fan speed and motor horsepower, with final alignment and belt adjustment made after installation.
 - Extend grease fitting to accessible location outside of unit.
 - Service Factor Based on Fan Motor Size: 1.4.
 - Fan Shaft: Turned, ground, and polished steel, keyed to wheel hub.
 - Shaft Bearings: Permanently lubricated, permanently sealed, self-aligning ball bearings.
 - Ball-Bearing Rating Life: ABMA 9, L10 of 100,000 hours.
 - Motor Sizes: Minimum size as indicated. If not indicated, large enough so driven load will not require motor to operate in service factor range above 1.0.
- G. Enclosure Type: Totally enclosed, fan cooled.
- H. Capacities and Characteristics:
- Refer to Fan Schedule for more information on exhaust fans.
- I. Accessories:
- Gravity Shutters: Aluminum blades in aluminum frame; interlocked blades with nylon bearings.
 - Motor-Side Back Guard: Galvanized steel, complying with OSHA specifications, removable for maintenance.
 - Wall Sleeve: Galvanized steel to match fan and accessory size.
 - Weatherhood: Galvanized steel, 45 degrees angle with bird screen.
 - Disconnect Switch: Nonfusible type, with thermal-overload protection mounted inside fan housing, factory wired through an internal aluminum conduit.
 - Vibration Isolators:
 - Type: Spring isolators.
 - Static Deflection: 1 inch.



1

HVAC FLOOR PLAN

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



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CLIENT:



PROJECT NAME:

**Orange County Convention Center
West Concourse PEMB Building**
9800 International Drive Orlando, FL 32819
Atkins Project # 100047904

No.	Date	Description
	12/01/2015	60% Design Documents
	01/22/2016	90% Design Documents
	03/21/2016	100% Design Documents
	04/08/2016	Permit and Bid Documents

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SHEET TITLE:

HVAC PLAN AND SCHEDULE

SHEET INFORMATION:

JOB No. 100047904	Date Issued: 04-08-2016
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QC Review: -	M-101
Phase:	

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ORANGE COUNTY GOVERNMENT
FLORIDA

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PROFESSIONAL SEALS:

Geary F. Heinrich, P.E.
Florida Reg. No. 47215

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ELECTRICAL LEGEND AND SCHEDULES

SHEET INFORMATION:

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Phase:	

LIGHTING

FLUSH, SURFACE OR PENDANT MOUNTED LED FIXTURE.
EMERGENCY BATTERY PACK FIXTURE MOUNTED 7'-6" A.F.F.

RECEPTACLES

DUPLEX RECEPTACLE, 2P, 3W, GROUNDING TYPE, 20A, 125V, NEMA 5-20R, MOUNT 18" A.F.F., U.O.N.
DUPLEX RECEPTACLE - SAME AS ABOVE EXCEPT WITH INTEGRAL GROUND FAULT CIRCUIT INTERRUPTER.
DUPLEX CONVENIENCE RECEPTACLE - SAME AS ABOVE EXCEPT WITH 2-FLAP, SPRING-HINGED, GASKETED AND WEATHERPROOF COVER.

BOXES AND FITTINGS

CEILING OR FLOOR MOUNTED JUNCTION BOX
WALL MOUNTED JUNCTION BOX

SWITCHES

SINGLE POLE TOGGLE SWITCH, 20A, 120/277 VAC, MOUNTED 4'-0" A.F.F. "q" = SWITCH LEG.
THREE-WAY AND FOUR-WAY TOGGLE SWITCHES, 20A, 120/277 VAC, MOUNTED 4'-0" A.F.F.
20A MOTOR RATED SWITCH.
NON-FUSED SAFETY SWITCH, 3 = NO. OF POLES, 60 = SWITCH SIZE, 600 V, UNLESS OTHERWISE NOTED.
FUSED SAFETY SWITCH, 3 = NO. OF POLES, 60 = SWITCH SIZE, 50 = FUSES SIZE, 600 V, UNLESS OTHERWISE NOTED.
SURGE PROTECTION DEVICE
C3 = SERVICE ENTRANCE DICE

POWER DISTRIBUTION MOTORS AND CONTROL

POWER OR LIGHTING CIRCUIT BREAKERS PANEL RECESSED MOUNTED ON WALL, SIZE AS INDICATED. DASHED LINE INDICATES REQUIRED CLEARANCE.
POWER OR LIGHTING CIRCUIT BREAKERS PANEL SURFACE MOUNTED ON WALL, SIZE AS INDICATED. DASHED LINE INDICATES REQUIRED CLEARANCE.
MOTOR. WHEN SHOWN, NUMBER INSIDE INDICATES HORSEPOWER.
LIGHTING CONTACTOR
RELAY
DRY TYPE TRANSFORMER, SIZE AS INDICATED

WIRING

SINGLE CIRCUIT HOMERUN TO PANEL WITH MINIMUM OF 2 #12AWG CIRCUIT WIRES AND 1 #12AWG GROUND WIRE IN A 3/4" CONDUIT, U.O.N.: "A" INDICATES PANEL DESIGNATION, NUMBER INDICATES CIRCUIT DESIGNATION.
MULTIPLE CIRCUITS HOMERUN TO PANEL WITH MINIMUM OF 2 #12AWG WIRES PER CIRCUIT AND 1 #12AWG GROUND WIRE IN A 3/4" CONDUIT, U.O.N.: "A" INDICATES PANEL DESIGNATION, NUMBERS SEPARATED BY COMAS INDICATE INDIVIDUAL CIRCUIT DESIGNATIONS.
MULTIPLE POLES CIRCUIT HOMERUN TO PANEL WITH MINIMUM OF 1 #12AWG WIRE PER POLE AND 1 #12AWG GROUND WIRE, U.O.N. REFER TO EQUIPMENT SERVED FOR NEUTRAL REQUIREMENTS. "A" INDICATES PANEL DESIGNATION, NUMBERS SEPARATED BY COLON INDICATE CIRCUIT POLE DESIGNATIONS.
INDICATES A CAPPED CONDUIT.
INDICATES A FLEXIBLE METAL CONDUIT CONNECTION. USE LIQUID TIGHT CONDUIT IN WET, DAMP OR OILY LOCATIONS.
CONDUIT RUN TURNED DOWN OR AWAY FROM VIEWER.
CONDUIT RUN TURNED UP OR TOWARDS VIEWER.
SITE PLAN ELECTRICAL SERVICE CONDUIT

ABBREVIATIONS

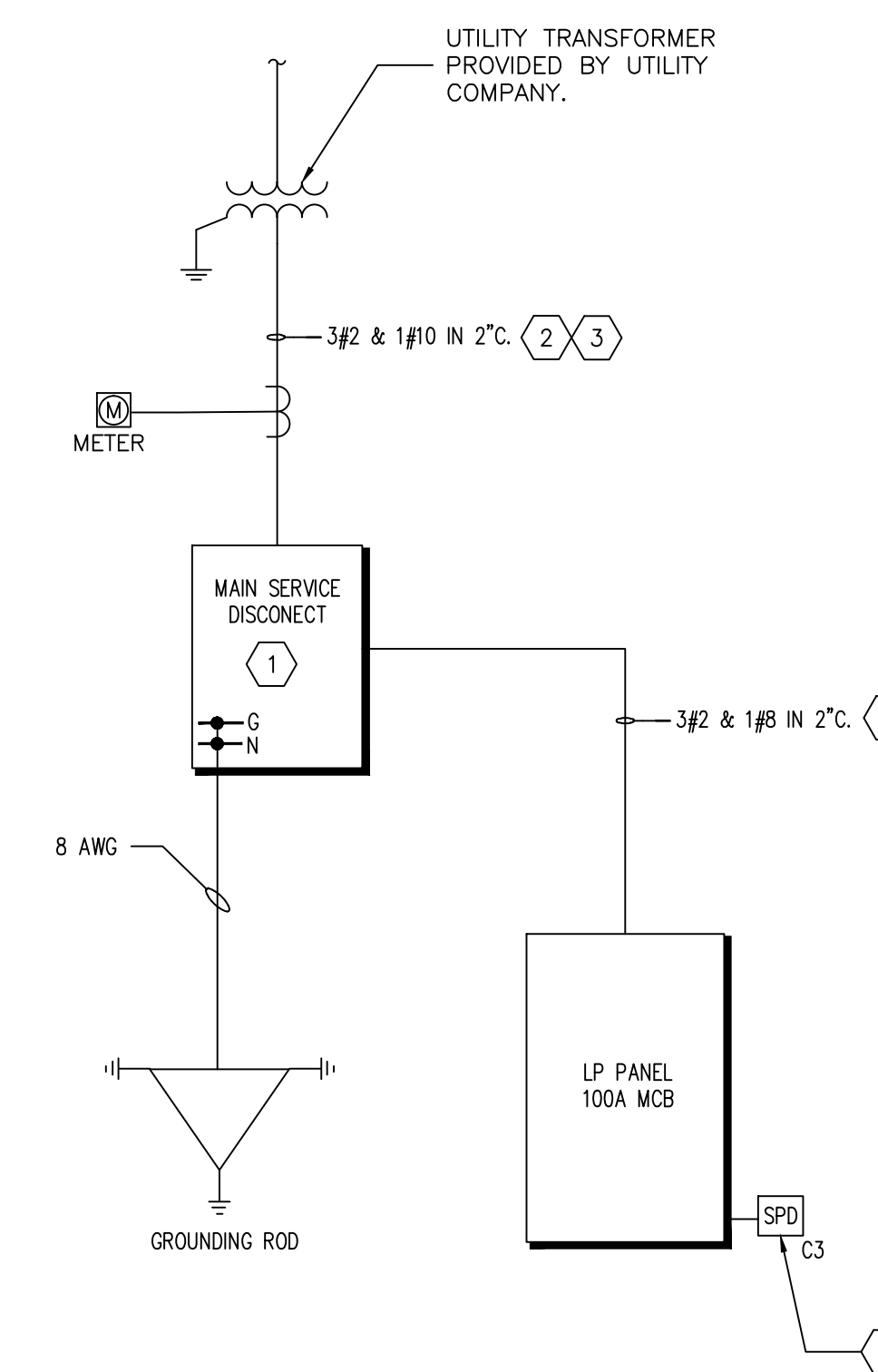
A	AMPERES
A.F.F.	ABOVE FINISHED FLOOR
A.H.J.	AUTHORITY HAVING JURISDICTION
C.B.	CIRCUIT BREAKER
CKT.	CIRCUIT
COND., C.	CONDUIT
DISC.	DISCONNECT
EMERG.	EMERGENCY
E.C.	EMPTY CONDUIT
E.W.C.	ELECTRIC WATER COOLER
E.W.H.	ELECTRIC WATER HEATER
ENCL.	ENCLOSURE INDICATES
F.A.C.P.	FIRE ALARM CONTROL PANEL
GFI	GROUND FAULT INTERRUPTER
GRD, G.	GROUND
GNS	GALVANIZED RIGID STEEL CONDUIT
HACR	HEATING, AIR CONDITIONING, AND REFRIGERATION
HD	HIGH INTENSITY DISCHARGE
HP	HORSE POWER
IC	INTERCOM
IES	ILLUMINATION ENGINEERING SOCIETY
IG	ISOLATED GROUND
JB	JUNCTION BOX
K	KEY OPERATED DEVICE
KW	KILOWATT
NEC	NATIONAL ELECTRICAL CODE
PNL	PANELBOARD
PVC	POLYVINYL CHLORIDE CONDUIT
SP	SPARE CONDUIT
SPD	SURGE PROTECTION DEVICE
SW	SWITCH
U.O.N.	UNLESS OTHERWISE NOTED
XMR	TRANSFORMER
WP	INDICATES WEATHERPROOF EQUIPMENT

- #### GENERAL NOTES
- THE WORK PRACTICES EMPLOYED ON THIS PROJECT SHALL AT ALL TIMES COMPLY WITH OR EXCEED THE LATEST ADOPTED EDITION OF THE NEC (NATIONAL ELECTRICAL CODE). ELECTRICAL CONTRACTOR SHALL PROVIDE OR OBTAIN ALL REQUIRED LABOR, MATERIAL, EQUIPMENT, INSURANCE, TOOLS, PERMITS, INSPECTIONS, ETC. TO PERFORM THE PROJECT ELECTRICAL WORK AS PER NEC, LOCAL AGENCIES, AND OWNER REQUIREMENTS.
 - A COPPER EQUIPMENT GROUNDING CONDUCTOR, SIZED AS PER TABLE 250-22 OF THE 2011 OR LATEST ADOPTED NEC, SHALL BE INSTALLED IN EVERY RACEWAY AND EFFECTIVELY TERMINATED AT EACH DEVICE, UNLESS NOTED OTHERWISE, MINIMUM WIRE SIZE FOR PHASE, NEUTRAL AND GROUND SHALL BE #12AWG AND MINIMUM CONDUIT SIZE SHALL BE 3/4".
 - CONDUCTORS #10AWG AND LARGER SHALL BE STRANDED COPPER, #10AWG AND SMALLER SHALL BE SOLID COPPER TYPE THHN/THWN-2 UNLESS NOTED OTHERWISE.
 - FIELD VERIFY LOCATION AND POWER NEEDS OF EQUIPMENT WITH OWNER'S REPRESENTATIVE (REVISE BRANCH CIRCUITS AS REQUIRED), AND COORDINATE POINT OF CONNECTION AND SERVICE SIZE WITH LOCAL UTILITY COMPANIES.
 - PROVIDE OUTLET AND JUNCTION BOXES PER NEC REQUIREMENT ACCORDING TO THEIR LOCATION.
 - ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ANY CUTTING AND PATCHING REQUIRED TO PERFORM THE ELECTRICAL WORK. OWNER/GENERAL CONTRACTOR SHALL BE NOTIFIED BEFORE STARTING ANY CUTTING AND PATCHING, AND WORK SHALL BE DONE IN SUCH A MANNER THAT WILL NOT AFFECT THE BUILDING STRUCTURE. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE AS A RESULT OF THE CUTTING AND PATCHING AND SHALL PROVIDE A CODE COMPLIANT SOLUTION TO RESTORE THE AFFECTED SYSTEMS AT NO EXTRA CHARGE.
 - COORDINATE FINAL LOCATION OF DEVICES WITH OWNER TO AVOID CONFLICTS WITH CABINETS, BACKSPLASH, MILLWORK, MIRRORS, ETC.
 - ELECTRICAL CONTRACTOR SHALL FOLLOW OWNER/GENERAL CONTRACTOR, NATIONAL AND LOCAL AGENCIES, ETC. SAFETY REGULATIONS PROCEDURES. ELECTRICAL CONTRACTOR SHALL PROVIDE ADEQUATE EQUIPMENT AND WORKING AREA PROTECTION TO PREVENT INJURIES TO PEOPLE AND DAMAGE TO PROPERTY.
 - FULLY TEST ALL ELECTRICAL SYSTEMS UPON COMPLETION OF WORK.
 - IT IS THE BIDDER'S RESPONSIBILITY TO INSPECT THE PROJECT SITE AND CONSTRUCTION DOCUMENTS PRIOR TO BIDDING. FAILURE TO DO SO SHALL NOT RELIEVE THE ELECTRICAL CONTRACTOR TO COMPLY AND PERFORM HIS/HER WORK RESPONSIBILITIES UNDER THIS CONTRACT.
 - LABEL EACH DISCONNECT SWITCH, AND JUNCTION BOXES WITH SOURCE PANEL AND CIRCUIT NUMBER.
 - ALL CIRCUIT BREAKERS SHALL BE BOLT-ON TYPE. CIRCUIT BREAKERS PROTECTING MOTORS SHALL BE 100% RATED.

LIGHT FIXTURE SCHEDULE

TYPE	DESCRIPTION	DESIGN SELECTION	VOLTS	LAMPS/FIXT	WATTAGE
A	4'-0" LONG LED LOW BAY SUSPENDED FIXTURE	LITHONIA LIGHTING MSL 10000LM L.V. MVOLT1210 40 80GR WH OR EQUIVALENT	120-277V	LED	86 W
X	LED EXIT SIGN, HIGH IMPACT, INJECTION MOLDED THERMOPLASTIC, RED LETTERS, UNIVERSAL MOUNTING, REMOVABLE ARROWS, NICKEL CADMIUM BATTERY	BEGHELLI PK-R-SA-B OR EQUIVALENT	120-277V	LED	2 W

DESCRIPTION	PHASE A		PHASE B		POLE		TR		POLE		PHASE A		PHASE B		DESCRIPTION
	KVA	KVA	KVA	KVA							KVA	KVA			
EF-1	1.18				20	1	1	2							SPARE
LIGHTING		1.55			20	1	3	4	20	1			1.18	EF-2	
ROLL UP DOOR	1.18				20	1	5	6	20	1			1.08	RECEPTACLES	
ROLL UP DOOR		1.18			20	1	7	8	20	1			0.90	RECEPTACLES	
SPARE					20	1	9	10	20	2			0.96	ROLL UP DOOR	
SPARE					20	1	11	12					0.96		
SPARE					20	1	13	14	30	2				SPD	
SPACE							15	16							
SPACE							17	18						SPACE	
SPACE							19	20						SPACE	
SPACE							21	22						SPACE	
SPACE							23	24						SPACE	
SPACE							25	26						SPACE	
SPACE							27	28						SPACE	
SPACE							29	30						SPACE	
CONNECTED LOAD	2.36	2.73									2.04	3.04		CONNECTED LOAD	
PHASE A	4.40	KVA									DESIGN LOAD:	10.56	KVA		
PHASE B	5.77	KVA									CURRENT:	43.98	AMPS		
TOTAL CONNECTED LOAD	10.17	KVA													



- #### KEYED NOTES
- MAIN DISCONNECT SHALL BE SERVICE ENTRANCE RATED. REFER TO THIS SHEET FOR GROUNDING DETAILS.
 - CONTRACTOR SHALL PROVIDE AND INSTALL 2" CONDUIT AND WIRING FROM UTILITY TRANSFORMER TO MAIN SERVICE DISCONNECT. REFER TO THIS SHEET FOR DETAILS.
 - RISERS TO MAIN SERVICE DISCONNECT AND TO UTILITY TRANSFORMER SHALL BE RIGID STEEL.
 - PROVIDE UL 1449-3RD EDITION SPD, SPD SHALL COMPLY TO REQUIREMENT OF UL 96A WHERE A LPS (LIGHTNING PROTECTION SYSTEM) IS INSTALLED AND REQUIRES MASTER LABELING SPD TO BE TYPE I OR TYP II AND 20KA (LN) RATED WITH 200KAIC WITHSTAND RATING.
 - RISER TO "LP" PANEL SHALL BE RIGID STEEL.

1 ELECTRICAL ONE-LINE DIAGRAM

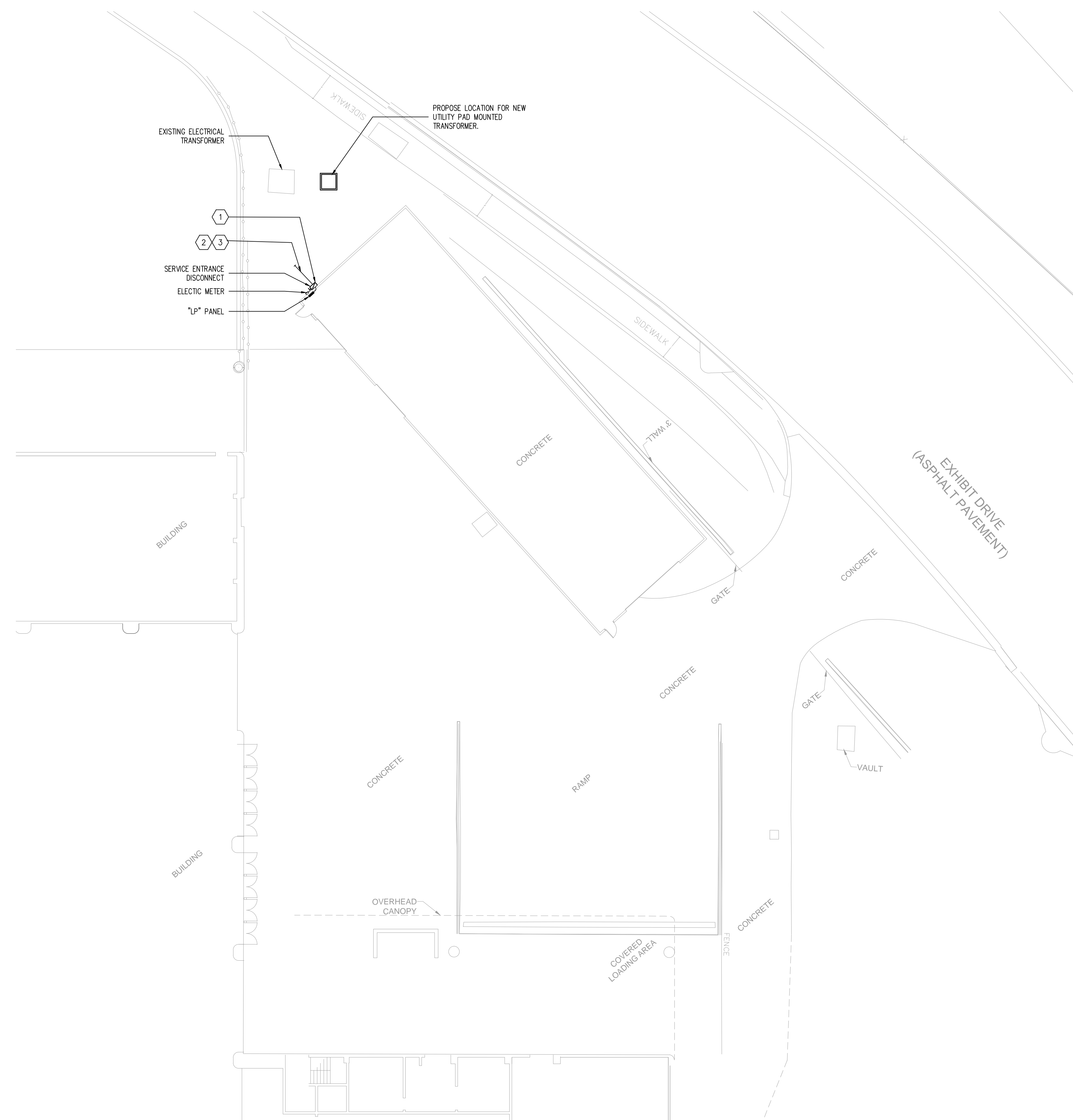
SCALE: N.T.S.

GENERAL NOTE

1. REFER TO SHEET E-001 FOR GENERAL NOTES AND ADDITIONAL INFORMATION.

KEYED NOTES

- 1 MAIN DISCONNECT SHALL BE SERVICE ENTRANCE RATED.
- 2 CONTRACTOR SHALL PROVIDE AND INSTALL 2" CONDUIT AND WIRING FROM UTILITY TRANSFORMER TO MAIN SERVICE DISCONNECT. REFER TO SHEET E001 FOR DETAILS.
- 3 RISERS TO MAIN SERVICE DISCONNECT AND TO UTILITY TRANSFORMER SHALL BE RIGID STEEL.



1 ELECTRICAL SITE PLAN
 SCALE: 1/16" = 1'-0"
 TRUE NORTH

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	01/22/2016	90% Design Documents
	03/21/2016	100% Design Documents
	04/08/2016	Permit and Bid Documents

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Gary F. Heinrich, P.E.
 Florida Reg. No. 47215

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ELECTRICAL SITE PLAN

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Phase:	

GENERAL NOTE

1. REFER TO SHEET E-001 FOR GENERAL NOTES AND ADDITIONAL INFORMATION.

POWER KEYED NOTES

- 1 MAIN DISCONNECT SHALL BE SERVICE ENTRANCE RATED.
- 2 CONTRACTOR SHALL PROVIDE AND INSTALL 2" CONDUIT AND WIRING FROM UTILITY TRANSFORMER TO MAIN SERVICE DISCONNECT. REFER TO SHEET E001 FOR DETAILS.
- 3 RISERS TO MAIN SERVICE DISCONNECT AND TO UTILITY TRANSFORMER SHALL BE RIGID STEEL.

LIGHTING KEYED NOTES

- 1 EXIT SIGN FIXTURES TO BE WIRE AHEAD OF LOCAL SWITCHING.

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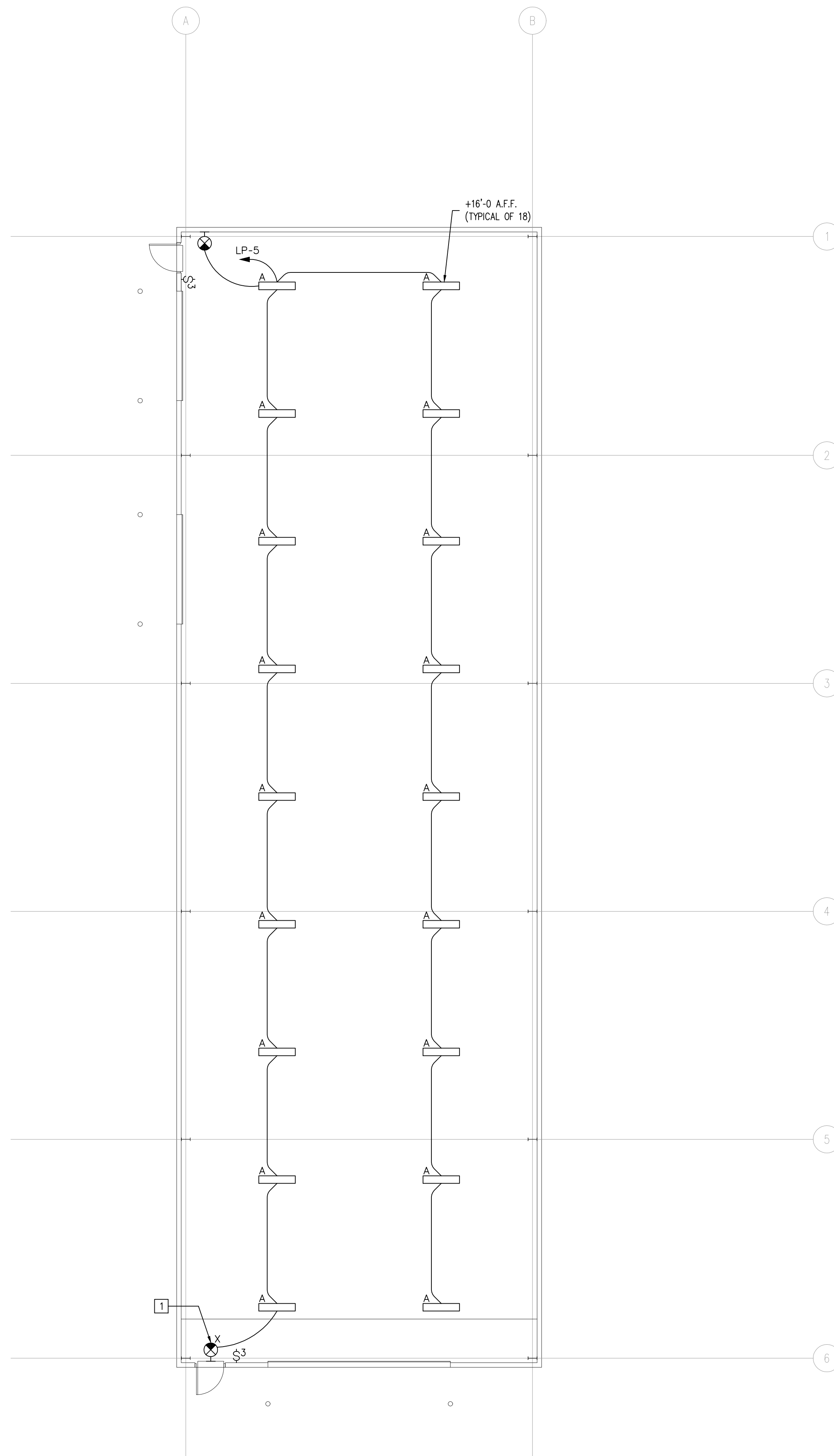
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Florida Reg. No. 47215

SHEET TITLE:

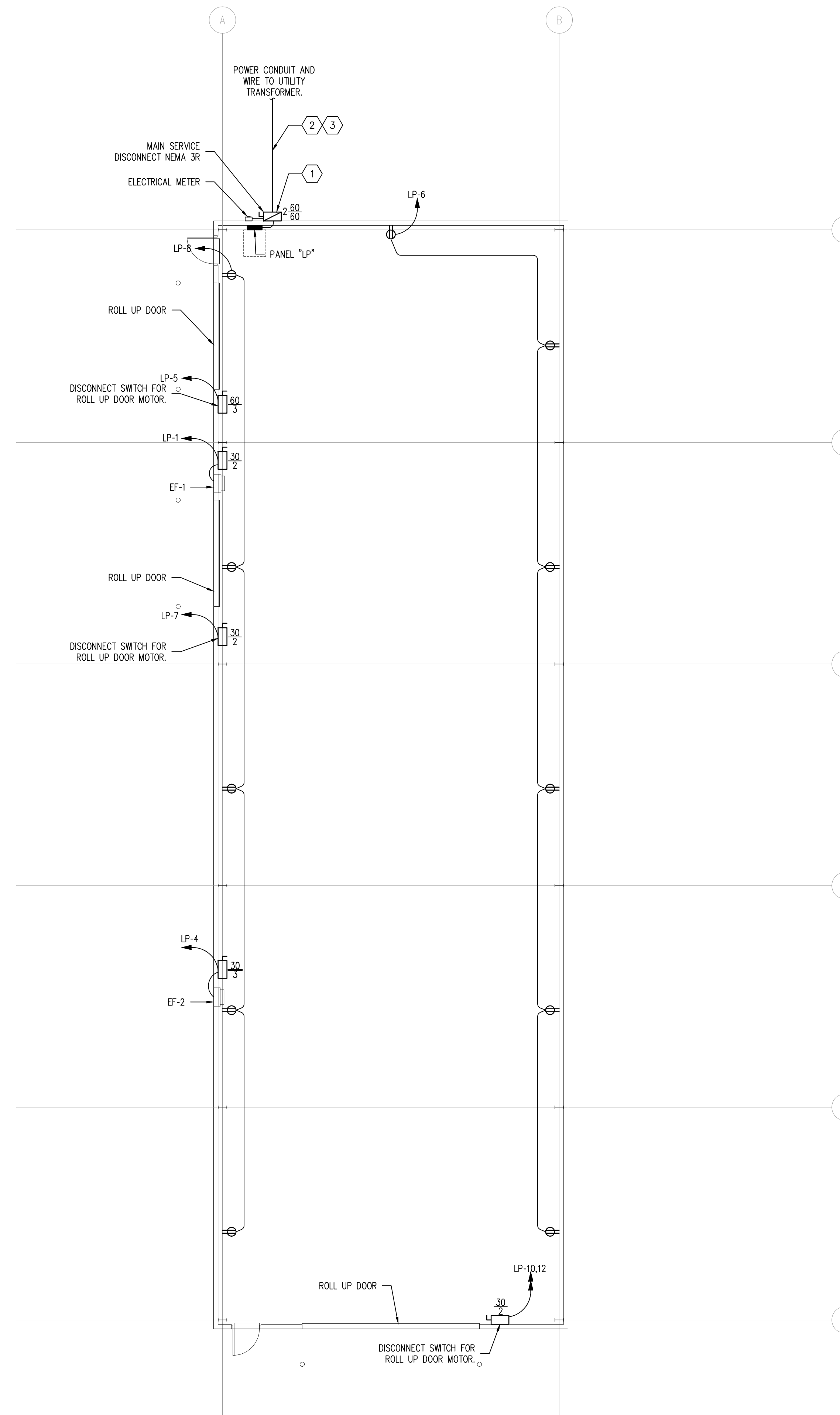
ELECTRICAL PLANS

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JOB No. 100047904	Date Issued: 04-08-2016
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Checked By: GH	E-101
QC Review: -	
Phase:	



1 LIGHTING FLOOR PLAN
SCALE: 1/8" = 1'-0"



2 ELECTRICAL FLOOR PLAN
SCALE: 1/8" = 1'-0"

