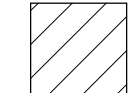
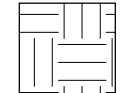
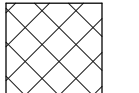
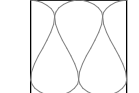


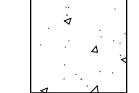

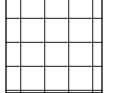

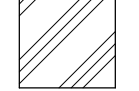

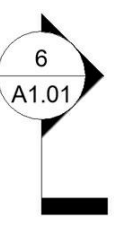
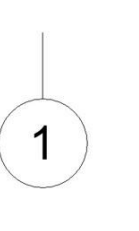
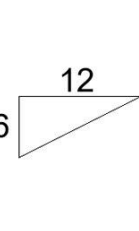
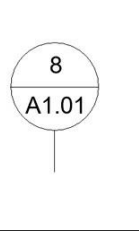

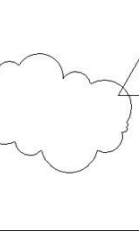


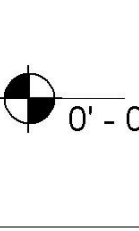
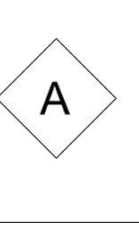
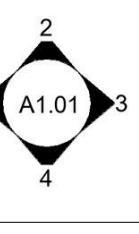
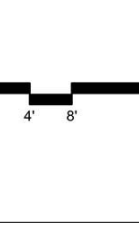


MATERIAL LEGEND

	BRICK / STONE VENEER		EARTH		METAL STUDS
	CELLULOSE / BATT INSULATION		GRANULAR FILL		PLYWOOD
	CONCRETE		GYPSUM BOARD		RIGID INSULATION
	CONCRETE MASONRY UNITS		METAL		WOOD

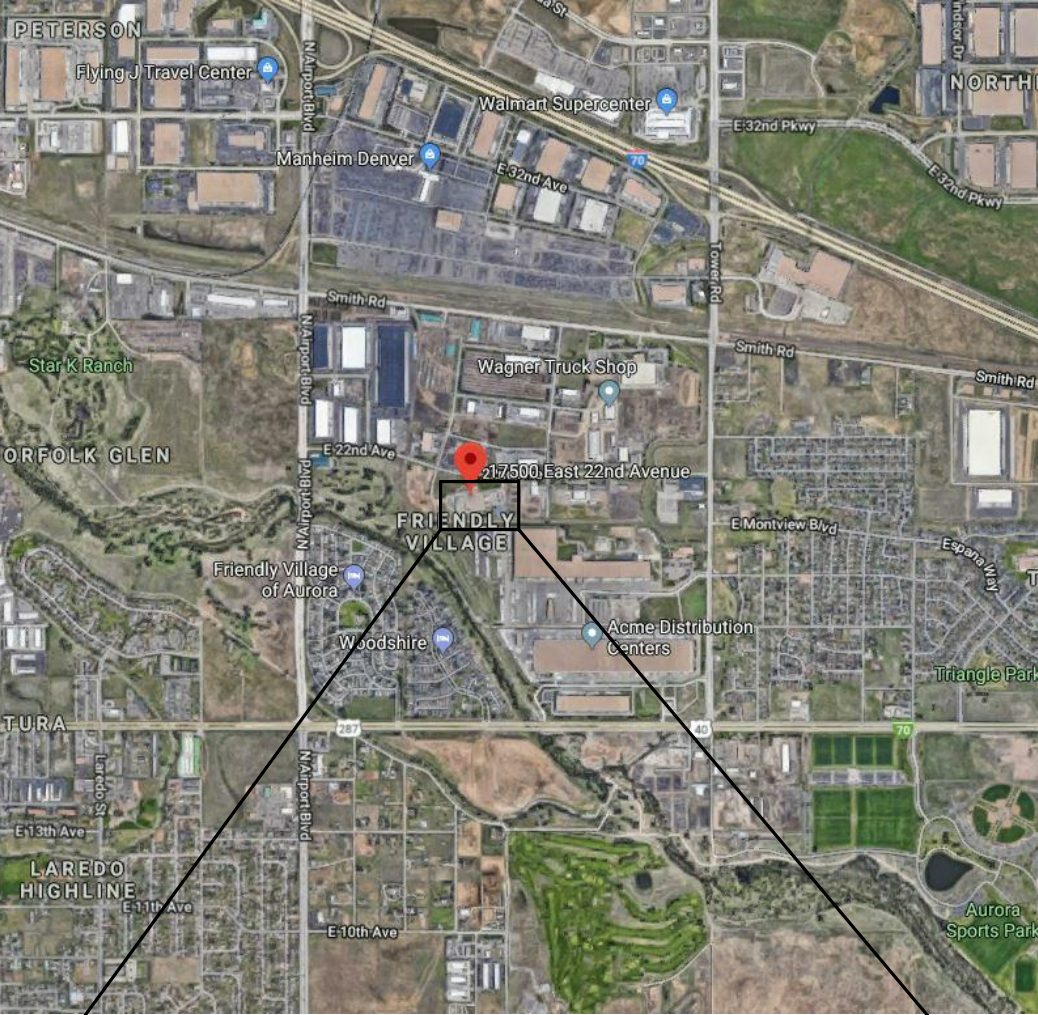
ARCHITECTURAL SYMBOLS

ARCHITECTURAL SYMBOLS		ARCHITECTURAL SYMBOLS		ARCHITECTURAL SYMBOLS	
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	BUILDING SECTION: SECTION NUMBER SHEET NUMBER		COLUMN GRID		ROOF SLOPE
	DETAIL/WALL SECTION: DETAIL NUMBER SHEET NUMBER		CENTERLINE		REVISION
	DOOR DESIGNATION		EXTERIOR ELEVATION		ELEVATION REFERENCE
	WINDOW DESIGNATION		INTERIOR ELEVATION		GRAPHIC SCALE

ABBREVIATIONS

AB	ANCHOR BOLT	FEC	FIRE EXTINGUISHER CABINET	OD	OUTSIDE DIAMETER
ACT	ACCOUSTICAL CEILING TILE	FF	FINISH FLOOR	OH	OVERHEAD
AFF	ABOVE FINISH FLOOR	FHC	FIRE HOSE CABINET	OPG	OPENING
AGGR	AGGREGATE	FIN	FINISH	OPP	OPPOSITE
AL	ALUMINUM	FL	FLOW LINE		
ALT	ALTERNATE	FLR	FLOOR	PCT	PRE-CAST
APPROX	APPROXIMATE	FLUOR	FLUORESCENT	PL	PROPERTY LINE
ARCH	ARCHITECTURAL	FOB	FACE OF BRICK	PLAM	PLASTIC LAMINATE
		FOC	FACE OF CONCRETE	PLAS	PLASTER
		FS	FULL SIZE	PLYWD	PLYWOOD
		FT	FOOT OR FEET	PR	PAIR
		FTG	FOOTING	PEMB	PRE-ENGINEERED METAL BUILDING
		FURR	FURRING		
		FV	FIELD VERIFY	QT	QUARRY TILE
		GA	GAUGE	R	RISER
		GALV	GALVANIZED	RD	ROOF DRAIN
		GC	GENERAL CONCTORACTOR	RE	REFER TO...
		GL	GLASS	REF/REF	REFRIGERATOR
		GR	GRADE	REINF	REINFORCED
		GYP	GYPSUM	REQ'D	REQUIRED
		GYP BD	GYPSUM BOARD	RM	ROOM
				RO	ROUGH OPENING
		HB	HOSE BIBB		
		HC	HOLLOW CORE	S	SOUTH
		H/C	HANDICAPPED	SC	SOLID CORE
		HDWD	HARDWOOD	SCHED	SCHEDULE
		HDWE	HARDWARE	SECT	SECTION
		HM	HOLLOW METAL	SF	SQUARE FOOT
		HR	HOSE	SHT	SHEET
		HT	HEIGHT	SIM	SIMILAR
		HVAC	HEATING, VENTILATION AND AIR CONDITIONING	SP	SPRING POINT
				SPEC	SPECIFICATION
		ID	INSIDE DIAMETER	SQ	SQUARE
		INSUL	INSULATION	SS	STAINLESS STEEL
		INT	INTERIOR	SSD	SEE STRUCTURAL DRAWINGS
				STAGG	STAGGERED
		JAN	JANITOR	STD	STANDARD
		JNT	JOINT	STIFF	STIFFENER
		JST	JOIST	STL	STEEL
				STRUC	STRUCTURAL
		KIT	KITCHEN	SUSP	SUSPENDED
				SAFRM	SPRAY APPLIED FIRE RESISTANT MATERIAL
		LAB	LABORATORY	S.O.G	SLAB ON GRADE
		LAM	LAMINATE		
		LAV	LAVATORY	TR	TREAD
		LT	LIGHT	T & B	TOP AND BOTTOM
				TER	TERRAZZO
		MAX	MAXIMUM	T & G	TONGUE AND GROOVE
		MECH	MECHANICAL	THK	THICK
		MEMB	MEMBRANE	TO	TOP OF
		MFR	MANUFACTURER	TS	TUBE STEEL
		MH	MANHOLE	TYP	TYPICAL UNLESS NOTED
		MIN	MINIMUM		
		MISC	MISCELLANEOUS	UNO	UNLESS NOTED OTHERWISE
		MO	MASONRY OPENING		
		MTL	METAL	VCT	VINYL COMPOSITION TILE
		MUL	MULLION	VER	VERIFY
				VERT	VERTICAL
		N	NORTH		
		NIC	NOT IN CONTRACT	W	WEST
		NO	NUMBER	w/	WITH
		NOM	NOMINAL	WC	WATER CLOSET
		NTS	NOT TO SCALE	WD	WOOD
				w/o	WITHOUT
		OC	ON CENTER		

SITE VICINITY MAP



PROJECT LOCATION



PROJECT LOCATION

CONSULTANT LIST

**ARCHITECT**  
ANDERSON KNIGHT ARCHITECTS  
2505 ANDERSON AVE. SUITE 201  
MANHATTAN, KS 66502  
PH: 785.539.0806

**CIVIL ENGINEER/LANDSCAPE**  
SMH CONSULTANTS  
2017 VANESTA PLACE  
MANHATTAN, KS 66502  
785.776.0541

**MECHANICAL/ELECTRICAL/PLUMBING ENGINEER:**  
PKMIR ENGINEERS  
2505 ANDERSON AVE, SUITE 202  
MANHATTAN, KS 66502  
PH: 785.320.5260

**STRUCTURAL ENGINEER:**  
KDK ENGINEERING  
P.O. BOX 929  
MANHATTAN, KS 66502  
PH: 785.560.5786

DRAWING INDEX

Sheet List1	
Sheet Number	Sheet Name
General	
G1.00	Cover Sheet
G2.01	Code Footprint Plans
Demolition	
D1.00	Demolition Floor Plan
Civil	
C1	Civil Title Sheet
C2	Topographic Survey
C3	Site Plan
C4	Grading Plan and H&V Control Plan
C5	Drainage Map
C6	Joint Plan
C7	Soil Erosion and Sediment Control Plan
C8	Soil Erosion and Sediment Control Details
L1	Landscape Plan
Structural	
S100	General Notes
S101	Framing Plans and Details
S201	Concrete Details
S301	Steel Schedules and Details
Architectural	
A1.01	Floor Plan and Roof Plan
A4.01	Exterior Elevations
A5.01	Building & Wall Sections
Electrical	
E1.01	Power Plan
E1.02	Lighting Plan

GENERAL NOTES

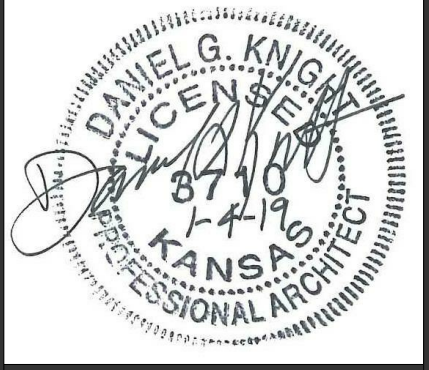
EMERGENCY RESPONDER RADIO COVERAGE: ALL NEW BUILDINGS; ADDITIONS TO EXISTING BUILDINGS; SHALL HAVE APPROVED RADIO COVERAGE FOR EMERGENCY RESPONDERS WITHIN THE BUILDING. THIS BUILDING MUST BE ASSESSED TO DETERMINE ADEQUATE IN-BUILDING RADIO COVERAGE AT TIME OF FINAL FRAME AND ELECTRICAL INSPECTION BY A QUALIFIED 3RD PARTY INSPECTION SERVICE AT THE OWNER/DEVELOPER'S EXPENSE. LACK OF ADEQUATE IN-BUILDING RADIO COVERAGE MAY DELAY THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY. WHERE THE STRUCTURE IS FOUND DEFICIENT A SEPARATE PERMIT IS REQUIRED TO INSTALL, REPAIR OR MODIFY ANY EMERGENCY RESPONSE RADIO COVERAGE SYSTEM. PER 2015 IFC, SECTION 510.



**ANDERSON KNIGHT ARCHITECTS**  
DREAM. CREATE. INSPIRE.

2505 ANDERSON AVENUE  
SUITE 201  
MANHATTAN, KANSAS 66502

785.539.0806



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Manko Window System, Inc.  
Warehouse Addition  
17500 East 22nd Avenue  
Aurora, Colorado 80011

JOB NO: 18-003  
DATE: 03.22.2019

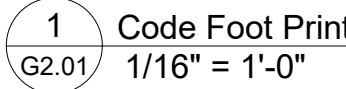
ISSUE RECORD:  
Construction Documents

REVISIONS:

Cover Sheet

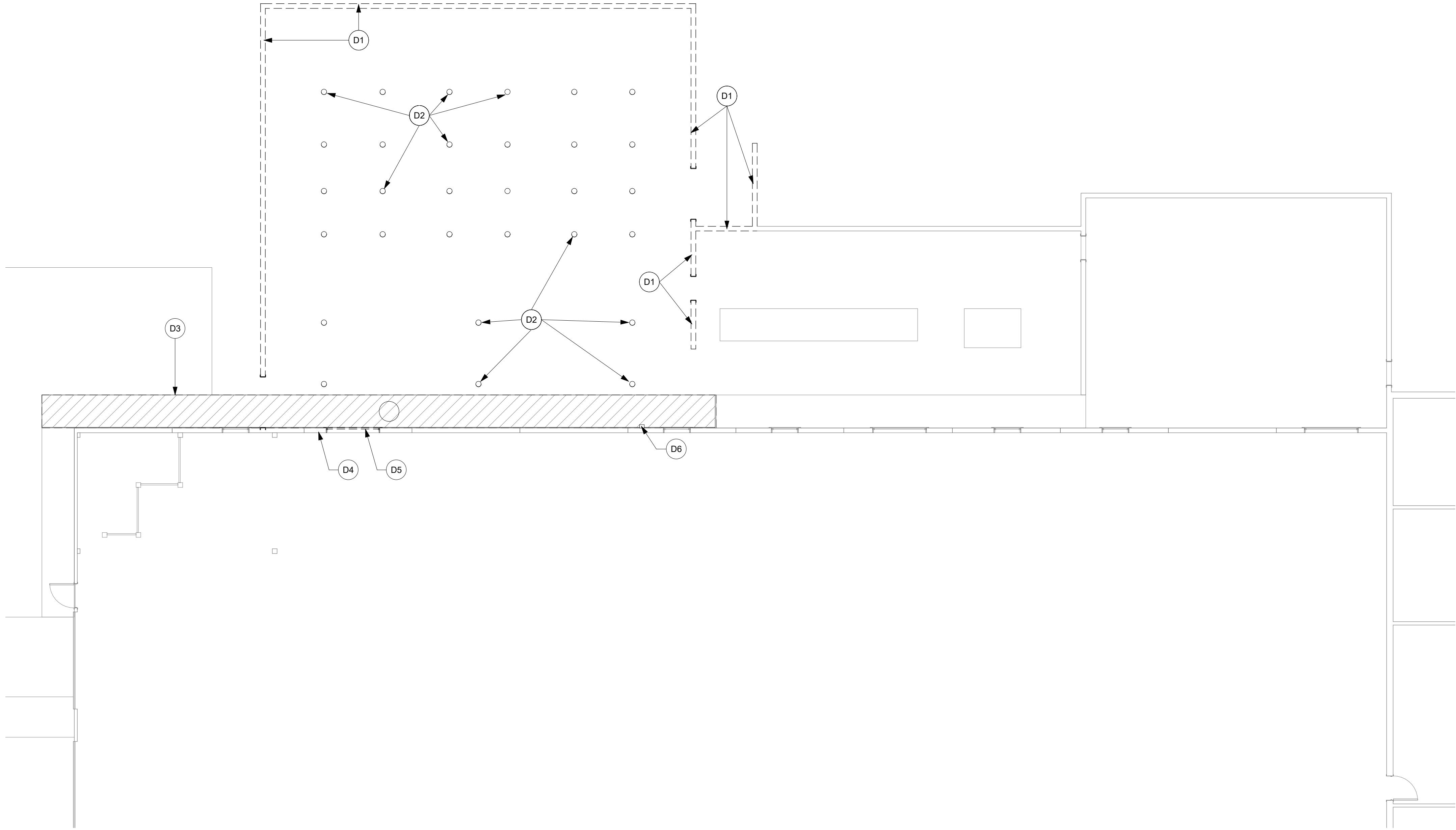
**G1.00**





## G2.01

DEMOLITION NOTES	
NUMBER	DESCRIPTION
D1	REMOVE SCREEN WALL, AND ALL ASSOCIATED FOUNDATIONS
D2	REMOVE ALL CONCRETE PIERS IN THIS AREA (TYPICAL)
D3	REMOVE CONCRETE SIDEWALK AS REQUIRED FOR NEW WORK
D4	REMOVE PORTION OF PRECAST WALL PANEL, REF. STRUCTURAL
D5	REMOVE WINDOW AND ALL ASSOCIATED MATERIALS
D6	REMOVE EXISTING SCUPPER, COLLECTION BOX AND DOWNSPOUT. SAVE COLLECTION BOX AND DOWNSPOUT FOR RE-INSTALLATION

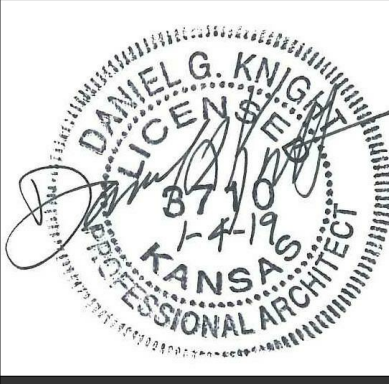


1 Demolition Floor Plan  
D1.00 1/8" = 1'-0"



ANDERSON  
KNIGHT  
ARCHITECTS

2505 ANDERSON AVENUE  
SUITE 201  
MANHATTAN, KANSAS 66502  
  
785.539.0806



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Manko Window System, Inc.  
Warehouse Addition  
  
17500 East 22nd Avenue  
Aurora, Colorado 80011

JOB NO: 18-003  
DATE: 03.22.2019

ISSUE RECORD:  
Construction Documents

REVISIONS:	

Demolition Floor Plan

D1.00



MANKO WINDOW WAREHOUSE ADDITION  
OPTIMA BATTERIES, INC.,  
SUB FILING NO. 1, LOT 2, BLOCK 1  
AURORA, COLORADO

NOTES:

1. City of Aurora plan review is only for general conformance with City of Aurora design criteria and the City Code. The City is not responsible for the accuracy and adequacy of the design, dimensions, and elevations which shall be confirmed and correlated at the job site. The City of Aurora, through the approval of this document, assumes no responsibility for the completeness and/or accuracy of this document.
2. All roadway construction shall conform to City of Aurora "Roadway Design & Construction Specifications," latest edition.
3. All water distribution, sanitary sewer, and storm drainage construction shall conform to City of Aurora "Standards and Specifications Regarding Water, Sanitary Sewer and Storm Drainage Infrastructure," latest revision.
4. All materials and workmanship shall be subject to inspection by the City. The City reserves the right to accept or reject any materials and workmanship that does not conform to the City standards and specifications.
5. The Contractor shall notify the City Public Improvement Inspections Division, 303-739-7420, 24 hours prior to the beginning of construction.
6. Location of existing utilities shall be verified by the Contractor prior to actual construction. For information, contact Utility Notification Center of Colorado, 1-800-922-1987 or 811.
7. The Contractor shall have one signed copy of the plans (approved by the City of Aurora), one copy of the appropriate standards and specifications at the job site at all times, and a copy of any permits and extension agreements needed at the job site at all times.
8. It is the Consultant's responsibility to accurately show existing conditions, both on-site, and off-site, on the construction plans. Any modifications needed due to conflicts, omissions, or changed conditions either on-site or off-site, which arise in the field, will be entirely the Developer's responsibility. The cost to rectify any adverse situation to meet the City standards and specifications and the City Code shall be borne solely by the Developer.
9. The owner/developer must obtain the written permission of the adjacent property owner(s) prior to any off-site grading or construction.
10. Concrete shall not be placed until the forms have been inspected by Public Improvements Inspections.
11. Paving of public streets shall not start until a soil report and pavement design is approved by the City Engineer, proof rolling, and subgrade and trench compaction tests taken by the developer's geotech are approved by Public Improvements Inspections/Materials Lab.
12. Standard City of Aurora curb ramps shall be constructed at all curb returns, at all "T" intersections and at all curbside kiosks or clusters, unless otherwise modified by these plans.
13. All stationing is based on centerline of roadways unless otherwise noted.
14. All elevations are flow line unless otherwise noted.
15. The City of Aurora shall not be liable for the maintenance of private drives and on-site drainage facilities. These facilities may not meet City standards and shall remain in private maintenance by Optima Batteries, Inc.in perpetuity. These private facilities include, if provided, the private underdrain system placed within the public right-of-way.
16. The contractor/developer is responsible for contacting CDOT to ensure all work on or adjacent to state highways or CDOT R.O.W. meets CDOT requirements.
17. The streetlight or pedestrian light installation within the public right-of-way shall be designed, funded, and constructed by the developer/owner. Ownership and maintenance of the street/pedestrian lights shall be the responsibility of the City of Aurora once they have been accepted. Street light and/or pedestrian lighting plans shall be prepared and submitted to the City for review and approval and shall become a part of the approved civil construction plans for the project. Certificate of occupancies will not be issued until the street and/or pedestrian lighting plans are approved, constructed, and initially accepted.
18. The Owner/Contractor must obtain a C.D.P.S. storm water discharge permit from the Colorado Department of Public Health and Environment, if required.
19. The Owner/Contractor is responsible for coordinating with the Army Corp of Engineers for wetland mitigation or work within the Waters of the U.S., if required. It is the responsibility of the Owner/Contractor to provide a copy of the Army Corp of Engineer's requirements to the City of Aurora. If there are no requirements by the Army Corp of Engineers, then a written notification from the Army Corp of Engineers shall be submitted to the City of Aurora stating such. City approval of the construction plans is subject to the Owner/Contractor obtaining a 404 permit, if applicable. A copy of this permit shall be submitted to the City of Aurora prior to any permits being issued.
20. All signage and striping shall be in accordance with the Manual of Uniform Traffic Control Devices, unless otherwise noted by the City of Aurora.
21. Private underdrain systems for groundwater discharges from foundation drains shall be owned and maintained by the Metro District.

CAUTION - NOTICE TO CONTRACTOR:

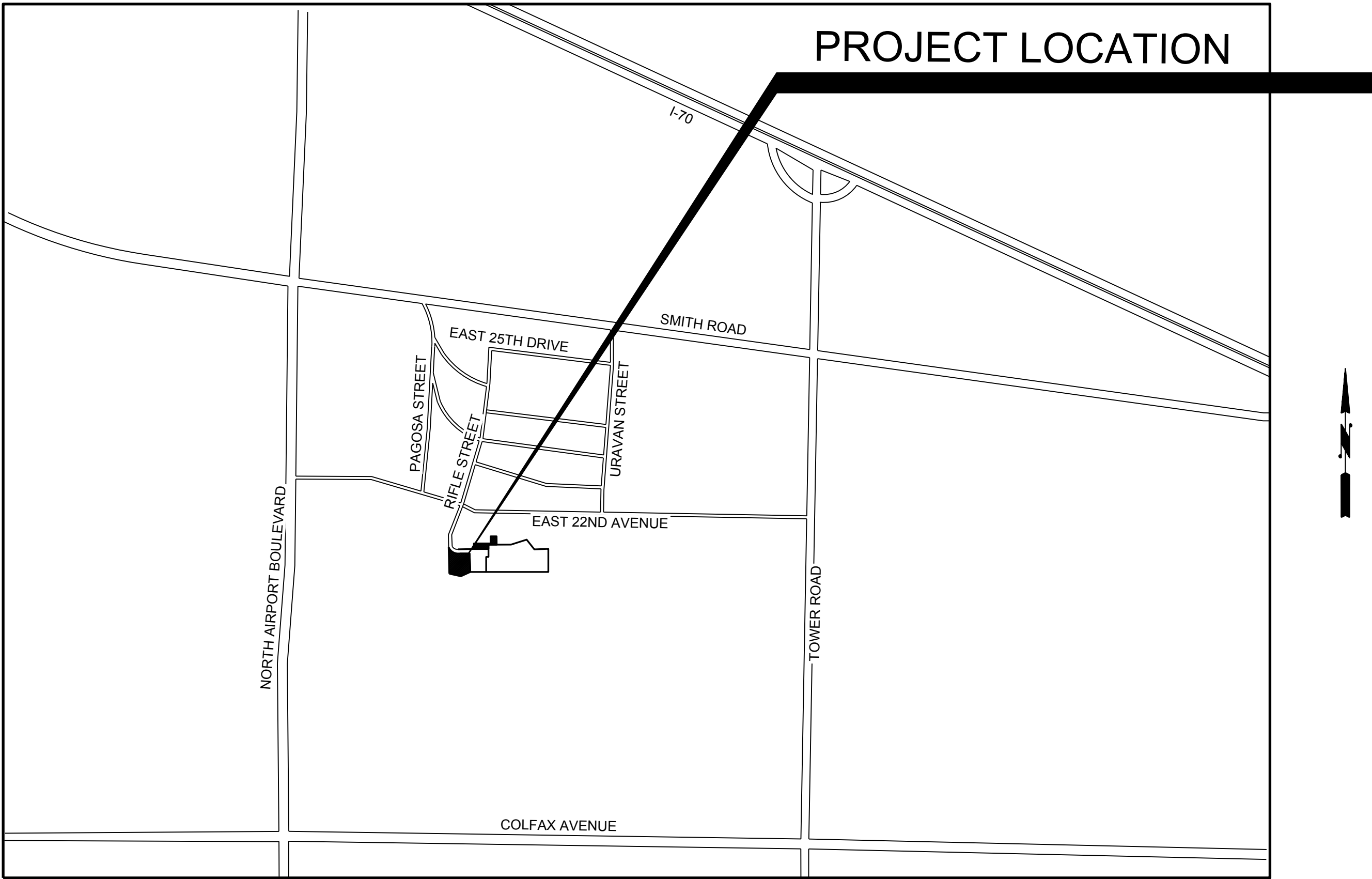
THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST THE EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS. THE CONTRACTOR SHALL EXPOSE EXISTING UTILITIES AT LOCATIONS OF POSSIBLE CONFLICTS PRIOR TO ANY CONSTRUCTION.

WARRANTY / DISCLAIMER:

THE DESIGNS REPRESENTED IN THESE PLANS ARE IN ACCORDANCE WITH ESTABLISHED PRACTICES OF CIVIL ENGINEERING FOR THE DESIGN FUNCTIONS AND USES INTENDED BY THE OWNER AT THIS TIME. HOWEVER, NEITHER SMH CONSULTANTS NOR ITS PERSONNEL CAN OR DO WARRANTY THESE DESIGNS OR PLANS AS CONSTRUCTED, EXCEPT IN THE SPECIFIC CASES WHERE SMH CONSULTANTS INSPECTS AND CONTROLS THE PHYSICAL CONSTRUCTION ON THE SITE.

SAFETY NOTICE TO CONTRACTOR:

IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.



VICINITY MAP  
SCALE: 1"=1000'

Plan Preparer Signature Block

I acknowledge my responsibility for the preparation of the Stormwater Management Plan.

CO Professional Engineer (type actual name) \_\_\_\_\_ Date \_\_\_\_\_

Project Owner/Developer Signature Block

I have reviewed the information contained within the Stormwater Management Plan and accept responsibility for the requirements set forth.

Permittee/ Affiliation (type actual name) \_\_\_\_\_ Date \_\_\_\_\_

SHEET INDEX

C1	TITLE SHEET
C2	TOPOGRAPHIC SURVEY
C3	SITE PLAN
C4	GRADING PLAN AND H&V CONTROL PLAN
L1	LANDSCAPE PLAN

NOTE:

SEE CITY OF AURORA CIVIL PLAN APPROVAL NUMBERS CP 940075 AND CP 203102 FOR ADDITIONAL INFORMATION.

NOTE:

THE NEW EXPANSION IS WAREHOUSE AND STORAGE SPACE WITH NO PLUMBING FIXTURES. EXISTING UTILITY SERVICE CONNECTIONS TO PUBLIC MAINS ARE OUTSIDE OF THE AREA WHERE CONSTRUCTION OF THE EXPANSION IS OCCURRING.

Approved One Year From This Date	
_____	
City Engineer	Date
_____	_____
Water Department	Date
_____	_____

OWNER:  
MANKO WINDOWS SYSTEMS INC.  
STEVE JONES  
17500 E. 22ND AVE.  
AURORA, CO 80011  
888-642-1488

DESIGNER  
SMH CONSULTANTS  
JEFF HANCOCK  
2017 VANESTA PLACE, STE. 110, MANHATTAN, KS 66503  
785-776-0541

**SMH**  
CONSULTANTS

2017 Vanesta Place, Suite 110  
Manhattan, KS 66503  
P (785)776-0541 • F (785)776-9780

707 3rd Avenue, Suite A  
Dodge City, KS 67801  
P (620)255-1952 • F (620)371-6579  
www.smhconsultants.com

Civil Engineering • Land Surveying  
Landscape Architecture

OPTIMA BATTERIES, INC., SUB FILING NO. 1, LOT 2, BLOCK 1  
MANKO WINDOW WAREHOUSE ADDITION  
CONSTRUCTION DOCUMENTS  
17500 EAST 22ND AVENUE  
AURORA, COLORADO



REVISION	DESCRIPTION
DATE	(DESCRIPTION)
00/00/00	

PROJECT #:	1808MN4039
CHECKED BY:	JDH
DRAWN BY:	SKM
DATE:	02/25/2019
SHEET #	C1
SHEET	1



TOPOGRAPHIC SURVEY

SHEET 1 OF 1

SMH  
CONSULTANTS

2017 Vanesta Place, Suite 110  
Manhattan, KS 66503  
P (785)776-0541 • F (785)776-0760  
707 3rd Avenue, Suite A  
Dodge City, KS 67801  
P (620)255-1952 • F (620)371-6579  
www.smhconsultants.com  
Civil Engineering • Land Surveying  
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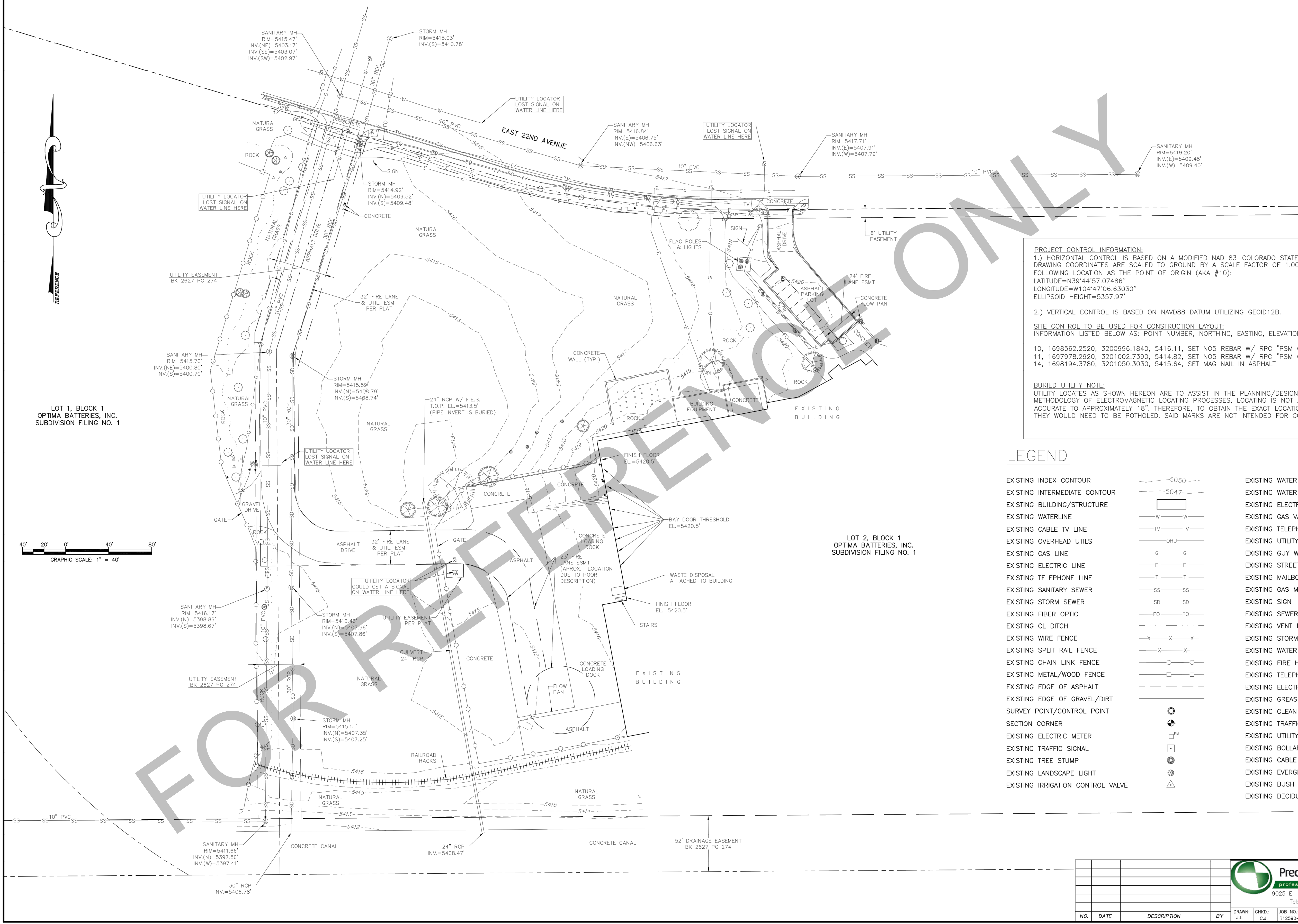
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MANKO WINDOW WAREHOUSE ADDITION  
CONSTRUCTION DOCUMENTS  
17500 EAST 22ND AVENUE  
AURORA, COLORADO

FOR  
REFERENCE  
ONLY

REVISION	DATE	DESCRIPTION
000000		

TOPOGRAPHIC SURVEY

PROJECT #: 1808MN4039  
CHECKED BY: JDH  
DRAWN BY: SKM  
DATE:  
02/25/2019  
SHEET #  
C2  
SHEET  
2



PROJECT CONTROL INFORMATION:  
1.) HORIZONTAL CONTROL IS BASED ON A MODIFIED NAD 83-COLORADO STATE PLANE CENTRAL DATUM. DRAWING COORDINATES ARE SCALED TO GROUND BY A SCALE FACTOR OF 1.0002558585 UTILIZING THE FOLLOWING LOCATION AS THE POINT OF ORIGIN (AKA #10):  
LATITUDE=N39°44'57.07486"  
LONGITUDE=W104°47'06.63030"  
ELLIPSOID HEIGHT=5357.97'  
2.) VERTICAL CONTROL IS BASED ON NAVD88 DATUM UTILIZING GEOID12B.  
SITE CONTROL TO BE USED FOR CONSTRUCTION LAYOUT:  
INFORMATION LISTED BELOW AS: POINT NUMBER, NORTHING, EASTING, ELEVATION AND DESCRIPTION.  
10, 1698562.2520, 3200996.1840, 5416.11, SET NOS REBAR W/ RPC "PSM CONTROL CAP"  
11, 1697978.2920, 3201002.7390, 5414.82, SET NOS REBAR W/ RPC "PSM CONTROL CAP"  
14, 1698194.3780, 3201050.3030, 5415.64, SET MAG NAIL IN ASPHALT  
BURIED UTILITY NOTE:  
UTILITY LOCATES AS SHOWN HEREON ARE TO ASSIST IN THE PLANNING/DESIGN PROCESS ONLY. DUE TO THE METHODOLOGY OF ELECTROMAGNETIC LOCATING PROCESSES, LOCATING IS NOT AN EXACT SCIENCE AND IS ONLY ACCURATE TO APPROXIMATELY 18". THEREFORE, TO OBTAIN THE EXACT LOCATION OF ANY/ALL BURIED UTILITIES, THEY WOULD NEED TO BE POTHOLED. SAID MARKS ARE NOT INTENDED FOR CONSTRUCTION USE.

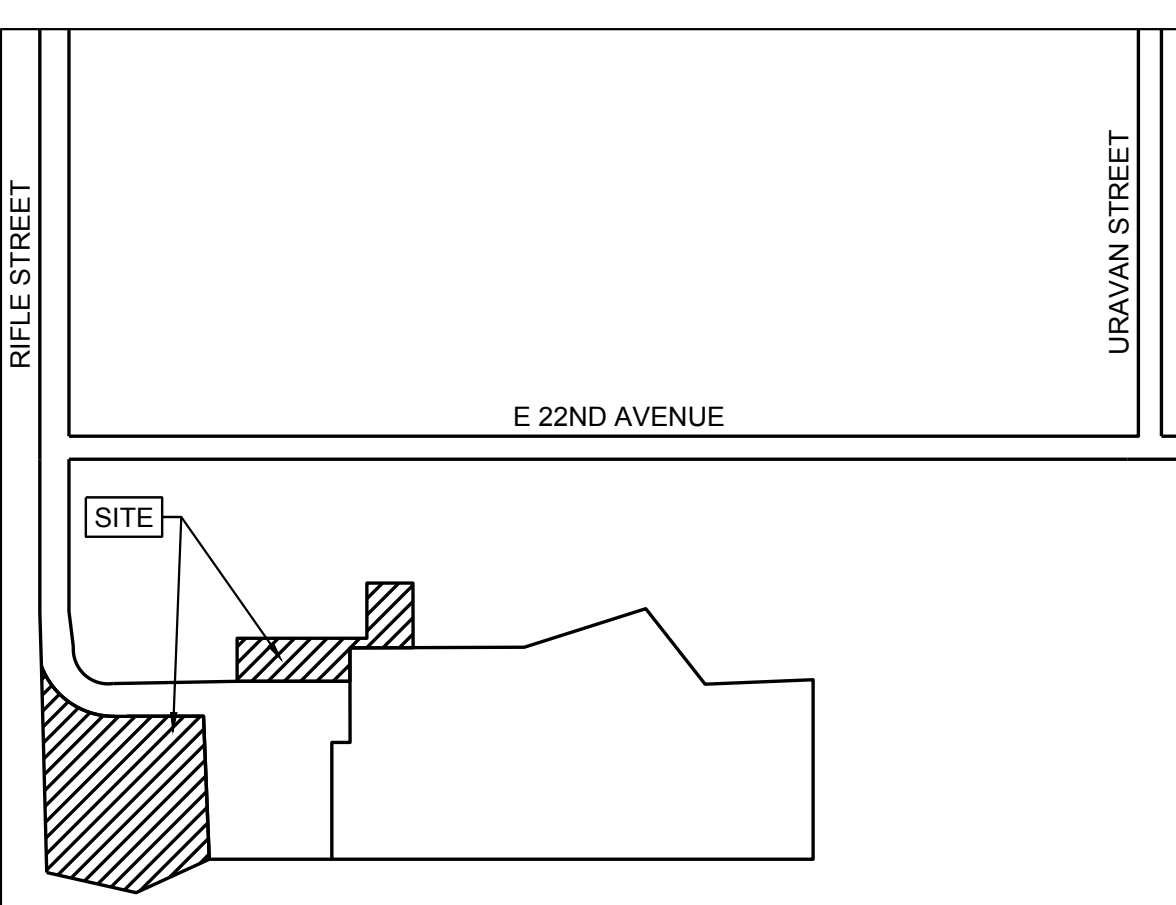
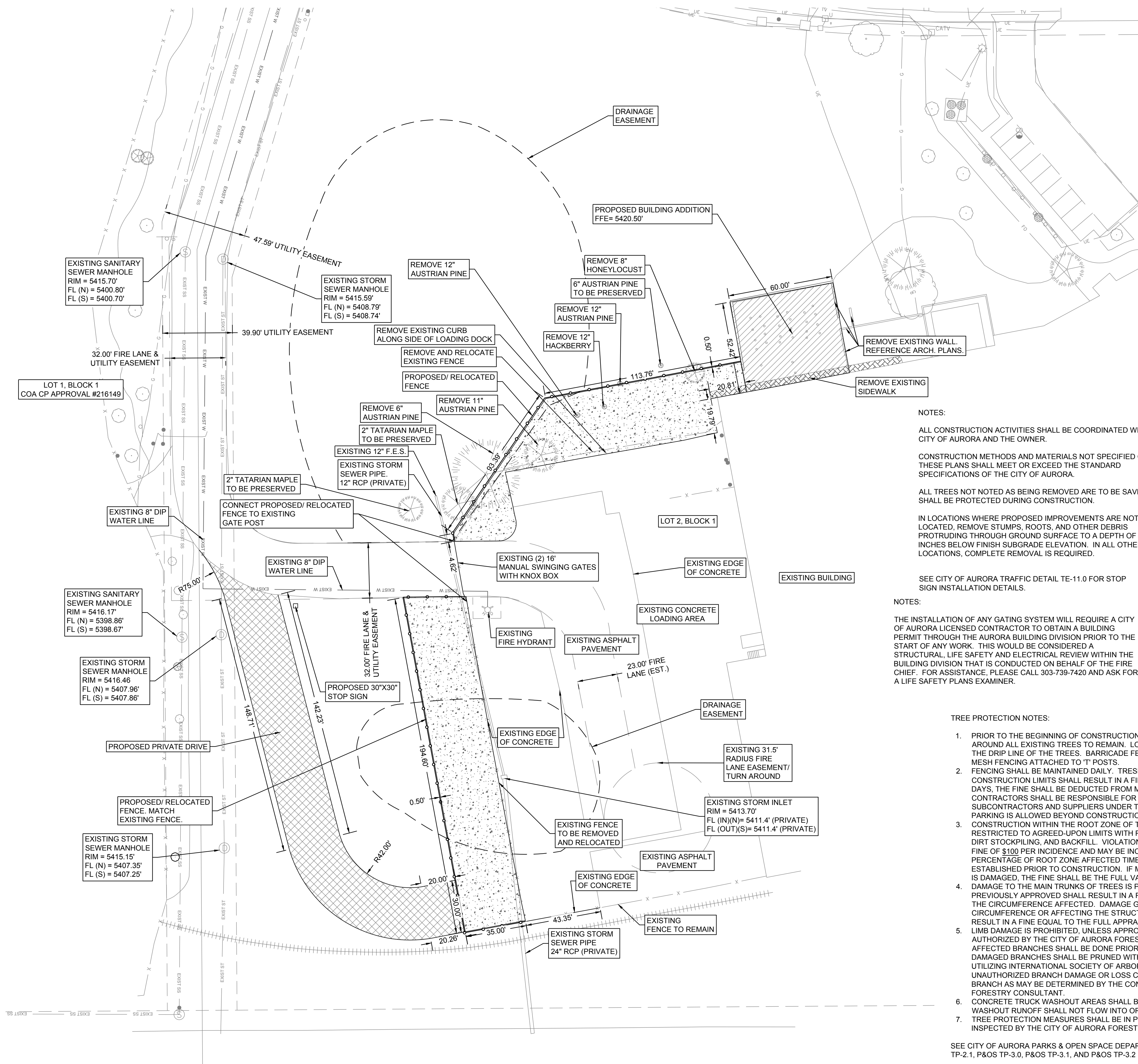
LEGEND

EXISTING INDEX CONTOUR	5050	EXISTING WATER VALVE
EXISTING INTERMEDIATE CONTOUR	5047	EXISTING WATER METER
EXISTING BUILDING/STRUCTURE		EXISTING ELECTRIC HANDHOLE
EXISTING WATERLINE	W-W	EXISTING GAS VALVE
EXISTING CABLE TV LINE	TV-TV	EXISTING TELEPHONE PEDESTAL
EXISTING OVERHEAD UTILS	OHU	EXISTING UTILITY POLE
EXISTING GAS LINE	G-G	EXISTING GUY WIRE
EXISTING ELECTRIC LINE	E-E	EXISTING STREET LIGHTPOLE
EXISTING TELEPHONE LINE	T-T	EXISTING MAILBOX
EXISTING SANITARY SEWER	SS-SS	EXISTING GAS METER
EXISTING STORM SEWER	SD-SD	EXISTING SIGN
EXISTING FIBER OPTIC	FO-FO	EXISTING SEWER MANHOLE
EXISTING CL DITCH		EXISTING VENT PIPE
EXISTING WIRE FENCE	X-X	EXISTING STORM MANHOLE
EXISTING SPLIT RAIL FENCE	X-X	EXISTING WATER MANHOLE
EXISTING CHAIN LINK FENCE		EXISTING FIRE HYDRANT
EXISTING METAL/WOOD FENCE		EXISTING TELEPHONE MANHOLE
EXISTING EDGE OF ASPHALT		EXISTING ELECTRIC MANHOLE
EXISTING EDGE OF GRAVEL/DIRT		EXISTING GREASE MANHOLE
SURVEY POINT/CONTROL POINT		EXISTING CLEAN OUT
SECTION CORNER		EXISTING TRAFFIC HANDHOLE
EXISTING ELECTRIC METER		EXISTING UTILITY HANDHOLE
EXISTING TRAFFIC SIGNAL		EXISTING BOLLARD/POST
EXISTING TREE STUMP		EXISTING CABLE TV PEDESTAL
EXISTING LANDSCAPE LIGHT		EXISTING EVERGREEN TREE
EXISTING IRRIGATION CONTROL VALVE		EXISTING BUSH
		EXISTING DECIDUOUS TREE

Precision Survey & Mapping, Inc.  
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9025 E. Kenyon Ave., Suite 150, Denver, CO 80237  
Tel:(303) 753-9799 Fax:(303) 753-4044

NO.	DATE	DESCRIPTION	BY





KEY MAP SCALE: 1"=250'

LEGEND	
	EXISTING SIDEWALK TO BE REMOVED
	PROPOSED CONCRETE
	PROPOSED BUILDING ADDITION
	PROPOSED ALTERNATE CONCRETE DRIVE
	EXISTING FENCE
	PROPOSED/ RELOCATED FENCE
	UTILITY EASEMENT
	EXISTING SANITARY SEWER
	EXISTING WATER LINE
	EXISTING STORM SEWER
	EXISTING RAILROAD TRACKS
	EXISTING GAS LINE
	EXISTING STORM SEWER MANHOLE
	EXISTING BOLLARD
	EXISTING FIRE HYDRANT
	EXISTING SANITARY SEWER MANHOLE
	EXISTING ROAD SIGN

NOTES:  
ALL CONSTRUCTION ACTIVITIES SHALL BE COORDINATED WITH THE CITY OF AURORA AND THE OWNER.  
CONSTRUCTION METHODS AND MATERIALS NOT SPECIFIED ON THESE PLANS SHALL MEET OR EXCEED THE STANDARD SPECIFICATIONS OF THE CITY OF AURORA.  
ALL TREES NOT NOTED AS BEING REMOVED ARE TO BE SAVED AND SHALL BE PROTECTED DURING CONSTRUCTION.

IN LOCATIONS WHERE PROPOSED IMPROVEMENTS ARE NOT LOCATED, REMOVE STUMPS, ROOTS, AND OTHER DEBRIS PROTRUDING THROUGH GROUND SURFACE TO A DEPTH OF 24 INCHES BELOW FINISH SUBGRADE ELEVATION. IN ALL OTHER LOCATIONS, COMPLETE REMOVAL IS REQUIRED.

SEE CITY OF AURORA TRAFFIC DETAIL TE-11.0 FOR STOP SIGN INSTALLATION DETAILS.

NOTES:  
THE INSTALLATION OF ANY GATING SYSTEM WILL REQUIRE A CITY OF AURORA LICENSED CONTRACTOR TO OBTAIN A BUILDING PERMIT THROUGH THE AURORA BUILDING DIVISION PRIOR TO THE START OF ANY WORK. THIS WOULD BE CONSIDERED A STRUCTURAL, LIFE SAFETY AND ELECTRICAL REVIEW WITHIN THE BUILDING DIVISION THAT IS CONDUCTED ON BEHALF OF THE FIRE CHIEF. FOR ASSISTANCE, PLEASE CALL 303-739-7420 AND ASK FOR A LIFE SAFETY PLANS EXAMINER.

TREE PROTECTION NOTES:

- PRIOR TO THE BEGINNING OF CONSTRUCTION, INSTALL BARRICADE FENCING AROUND ALL EXISTING TREES TO REMAIN. LOCATE FENCING AT OR OUTSIDE OF THE DRIP LINE OF THE TREES. BARRICADE FENCING SHALL BE 4' HEIGHT, ORANGE MESH FENCING ATTACHED TO 'T' POSTS.
- FENCING SHALL BE MAINTAINED DAILY. TRESPASS BEYOND ESTABLISHED CONSTRUCTION LIMITS SHALL RESULT IN A FINE OF \$100. IF NOT PAID WITHIN 30 DAYS, THE FINE SHALL BE DEDUCTED FROM MONIES DUE TO CONTRACTOR. CONTRACTORS SHALL BE RESPONSIBLE FOR ALL OF THEIR WORKERS, SUBCONTRACTORS AND SUPPLIERS UNDER THIS REQUIREMENT. NO VEHICLE PARKING IS ALLOWED BEYOND CONSTRUCTION LIMITS.
- CONSTRUCTION WITHIN THE ROOT ZONE OF TREES TO REMAIN SHALL BE RESTRICTED TO AGREED-UPON LIMITS WITH REGARD TO EXCAVATION, ACCESS, DIRT STOCKPILING, AND BACKFILL. VIOLATION OF SET LIMITS SHALL RESULT IN A FINE OF \$100 PER INCIDENCE AND MAY BE INCREASED BASED ON THE PERCENTAGE OF ROOT ZONE AFFECTED TIMES THE VALUE OF THE TREE ESTABLISHED PRIOR TO CONSTRUCTION. IF MORE THAN 30% OF THE ROOT ZONE IS DAMAGED, THE FINE SHALL BE THE FULL VALUE OF THE TREE.
- DAMAGE TO THE MAIN TRUNKS OF TREES IS PROHIBITED. DAMAGE NOT PREVIOUSLY APPROVED SHALL RESULT IN A FINE BASED ON THE PERCENTAGE OF THE CIRCUMFERENCE AFFECTED. DAMAGE GREATER THAN 30% OF THE CIRCUMFERENCE OR AFFECTING THE STRUCTURAL INTEGRITY OF THE TREE WILL RESULT IN A FINE EQUAL TO THE FULL APPRAISED VALUE OF THE TREE.
- LMB DAMAGE IS PROHIBITED, UNLESS APPROVED PRIOR TO CONSTRUCTION OR AS AUTHORIZED BY THE CITY OF AURORA FORESTRY DIVISION. PRUNING OF AFFECTED BRANCHES SHALL BE DONE PRIOR TO THE START OF CONSTRUCTION. DAMAGED BRANCHES SHALL BE PRUNED WITHIN 10 DAYS OF THE OCCURRENCE UTILIZING INTERNATIONAL SOCIETY OF ARBORICULTURE STANDARDS. UNAUTHORIZED BRANCH DAMAGE OR LOSS CAN RESULT IN A FINE OF \$100 PER BRANCH AS MAY BE DETERMINED BY THE CONSTRUCTION MANAGER OR HIS FORESTRY CONSULTANT.
- CONCRETE TRUCK WASHOUT AREAS SHALL BE DESIGNATED AREAS ONLY. WASHOUT RUNOFF SHALL NOT FLOW INTO OR ACROSS ROOT ZONES OF TREES.
- TREE PROTECTION MEASURES SHALL BE IN PLACE PRIOR TO CONSTRUCTION AND INSPECTED BY THE CITY OF AURORA FORESTRY DIVISION.

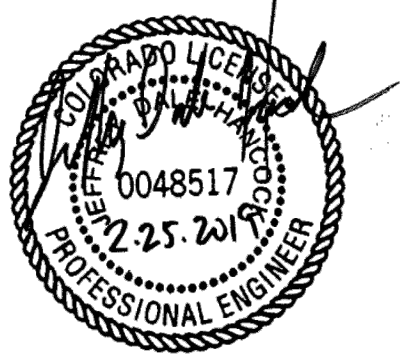
SEE CITY OF AURORA PARKS & OPEN SPACE DEPARTMENT DETAILS P&OS TP-2.0, P&OS TP-2.1, P&OS TP-3.0, P&OS TP-3.1, AND P&OS TP-3.2 FOR TREE PROTECTION DETAILS.

OWNER:  
MANKO WINDOWS SYSTEMS INC.  
STEVE JONES  
17500 E. 22ND AVE.  
AURORA, CO 80011  
888-642-1488  
  
DESIGNER  
SMH CONSULTANTS  
JEFF HANCOCK  
2017 VANESTA PLACE, STE. 110, MANHATTAN, KS 66503  
785-776-0541

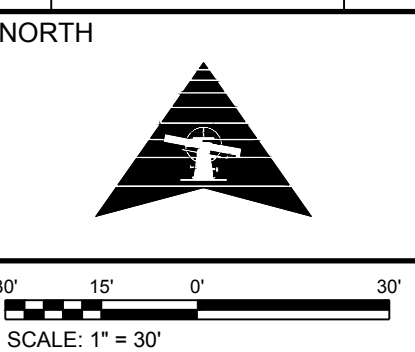
SMH  
CONSULTANTS

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OPTIMA BATTERIES, INC., SUB FILING NO. 1, LOT 2, BLOCK 1  
MANKO WINDOW WAREHOUSE ADDITION  
CONSTRUCTION DOCUMENTS  
17500 EAST 22ND AVENUE  
AURORA, COLORADO

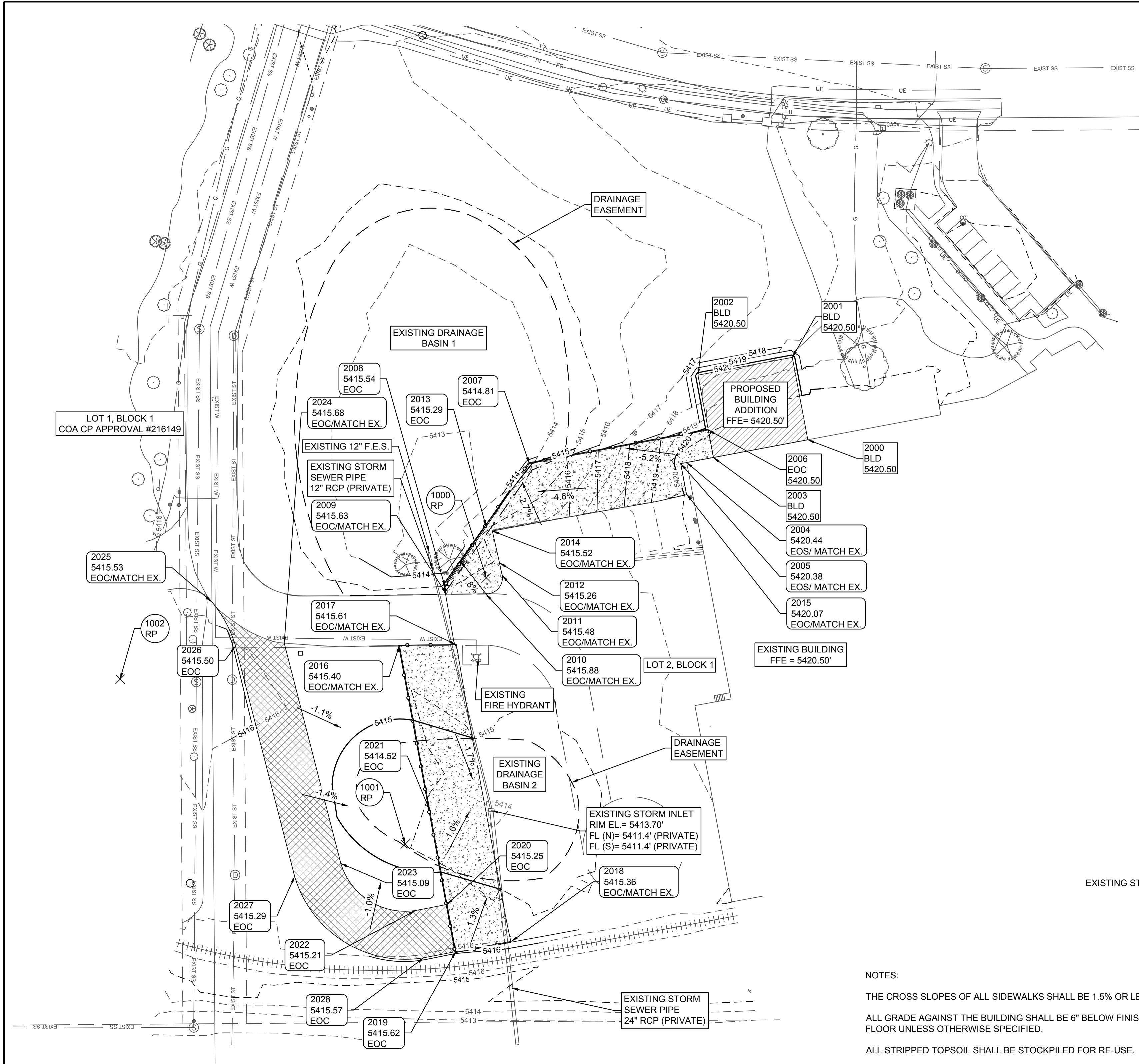


REVISION	DATE	DESCRIPTION
1	00/00/00	(DESCRIPTION)



PROJECT #: 1808MN4039  
CHECKED BY: JDH  
DRAWN BY: SKM  
DATE: 02/25/2019  
SHEET #  
**C3**  
SHEET 3





ITEM		DESCRIPTION
FILL LIFT THICKNESS		9 INCHES OR LESS IN LOOSE THICKNESS WHEN HEAVY, SELF-PROPELLED COMPACTION EQUIPMENT IS USED; 4 TO 6 INCHES IN LOOSE THICKNESS WHEN MATERIAL IS PLACED IN CONFINED SPACES OR HAND-GUIDED EQUIPMENT (I.E. JUMPING JACK OR PLATE COMPACTOR) IS USED
COMPACTION REQUIREMENTS <sup>1</sup>		95% OF THE MATERIALS MAXIMUM STANDARD PROCTOR DRY DENSITY (ASTM D 698)
MOISTURE CONTENT- COHESIVE SOIL	LL>45	WITHIN THE RANGE OF OPTIMUM MOISTURE CONTENT TO 4% ABOVE OPTIMUM MOISTURE CONTENT AS DETERMINED BY THE STANDARD PROCTOR TEST DURING PLACEMENT AND COMPACTION
	LL<45	WITHIN THE RANGE OF 2% BELOW OPTIMUM MOISTURE CONTENT TO 2% ABOVE THE OPTIMUM MOISTURE CONTENT VALUE AS DETERMINED BY THE STANDARD PROCTOR TEST AT THE TIME OF PLACEMENT AND COMPACTION
MOISTURE CONTENT GRANULAR MATERIAL <sup>2</sup>		WORKABLE MOISTURE LEVELS

1. RECOMMEND THAT ENGINEERED FILL BE TESTED FOR MOISTURE CONTENT AND COMPACTION DURING PLACEMENT. SHOULD THE RESULTS OF THE IN-PLACE DENSITY TESTS INDICATE THE SPECIFIED MOISTURE OR COMPACTION LIMITS HAVE NOT BEEN MET, THE AREA REPRESENTED BY THE TEST SHOULD BE REWORKED AND RETESTED AS REQUIRED UNTIL THE SPECIFIED MOISTURE AND COMPACTION REQUIREMENTS ARE ACHIEVED.
2. SPECIFICALLY, MOISTURE LEVELS SHOULD BE MAINTAINED LOW ENOUGH TO ALLOW FOR SATISFACTORY COMPACTION TO BE ACHIEVED WITHOUT THE COHESIONLESS FILL MATERIAL PUMPING WHEN PROOFROLLED.

- NOTES:
- THE CROSS SLOPES OF ALL SIDEWALKS SHALL BE 1.5% OR LESS.
- ALL GRADE AGAINST THE BUILDING SHALL BE 6" BELOW FINISH FLOOR UNLESS OTHERWISE SPECIFIED.
- ALL STRIPPED TOPSOIL SHALL BE STOCKPILED FOR RE-USE.

ENGINEERED FILL SHOULD MEET THE FOLLOWING MATERIAL PROPERTY REQUIREMENTS:

FILL TYPE <sup>1</sup>	USCS CLASSIFICATION	ACCEPTABLE LOCATION FOR PLACEMENT
LEAN CLAY	CL (LL<40)	ALL LOCATIONS AND ELEVATIONS
WELL GRADED GRANULAR	GM <sup>2</sup>	ALL LOCATIONS AND ELEVATIONS
LOW VOLUME CHANGE MATERIAL	CL OR GM <sup>2</sup> AND (LL<45 & PI<22)	ALL LOCATIONS AND ELEVATIONS

1. CONTROLLED, COMPACTED FILL SHOULD CONSIST OF APPROVED MATERIALS THAT ARE FREE OF ORGANIC MATTER AND DEBRIS. FROZEN MATERIAL SHOULD NOT BE USED AND FILL SHOULD NOT BE PLACED ON A FROZEN SUBGRADE. A SAMPLE OF EACH MATERIAL TYPE SHOULD BE SUBMITTED TO THE GEOTECHNICAL ENGINEER FOR EVALUATION.
2. CRUSHED LIMESTONE AGGREGATE, LIMESTONE SCREENINGS, OR OTHER DENSE GRADED GRANULAR MATERIAL CONTAINING AT LEAST 15% LOW PLASTICITY FINES.

## LEGEND

	1' CONTOUR INTERVAL (EXISTING GROUND)
	5' CONTOUR INTERVAL (EXISTING GROUND)
	1' CONTOUR INTERVAL (PROPOSED GROUND)
	5' CONTOUR INTERVAL (PROPOSED GROUND)
	DRAINAGE EASEMENT

## LEGEND

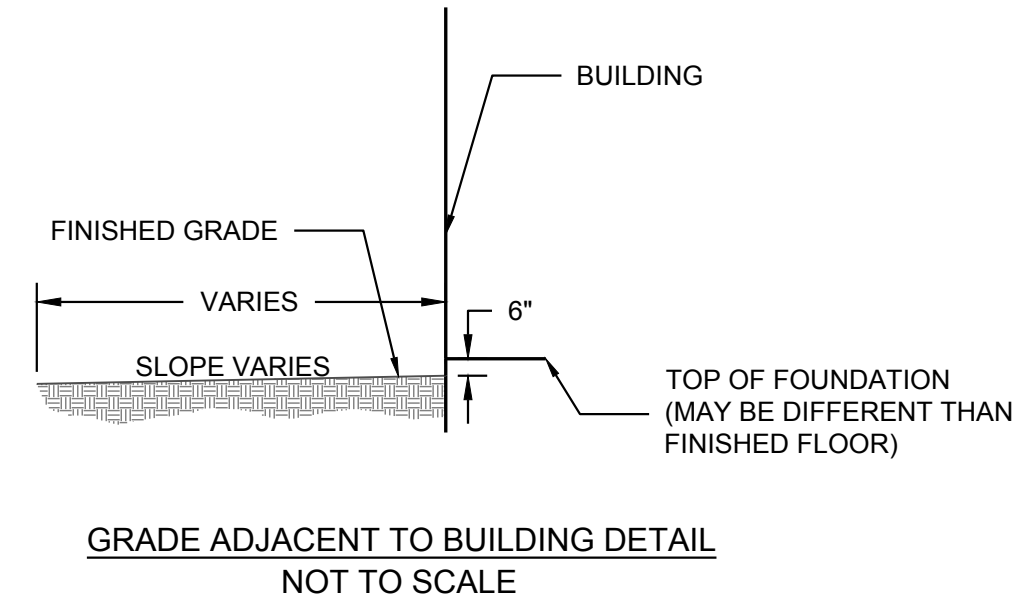
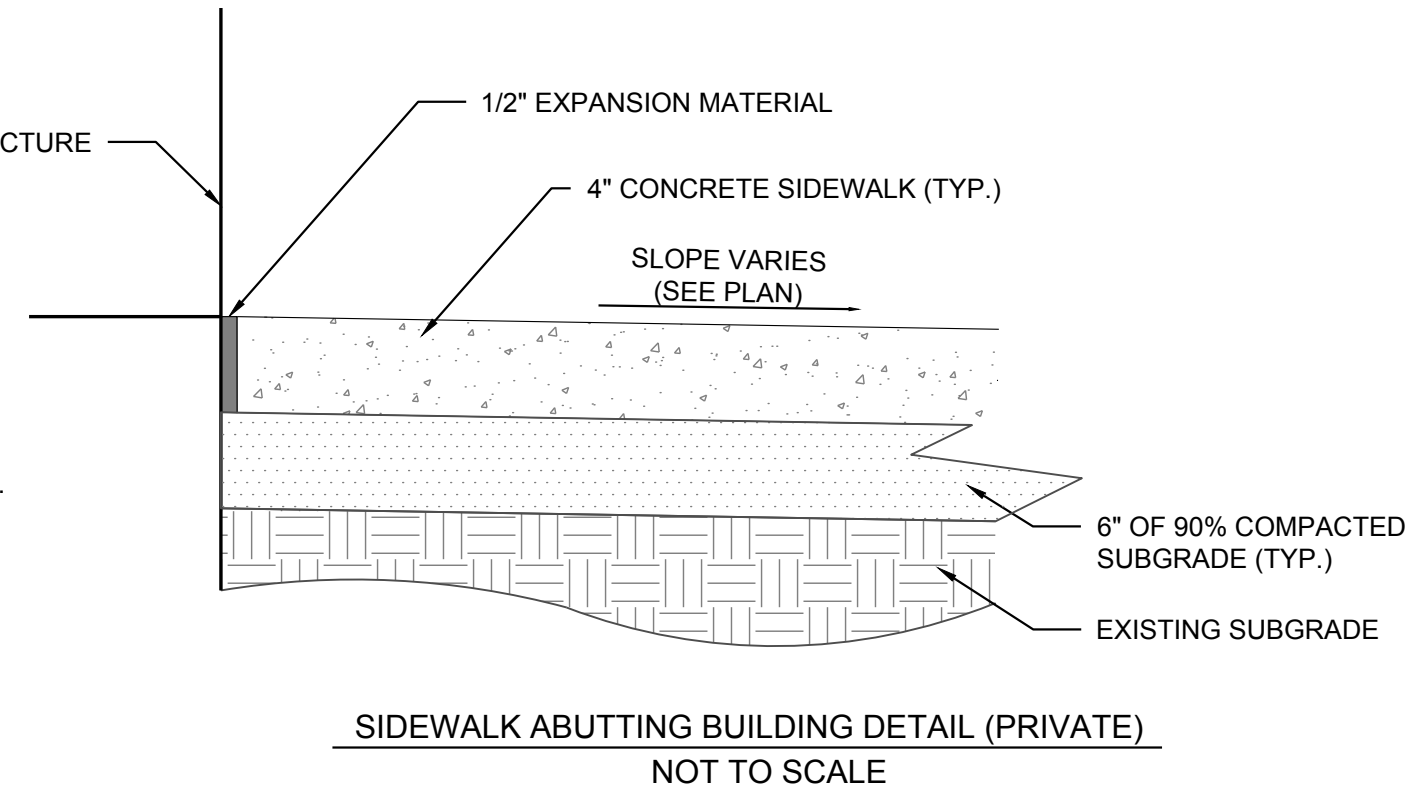
	RADIUS POINT	RP	RADIUS POINT
	BUILDING CORNER	MATCH EX.	MATCH EXISTING ELEVATION
	CONSTRUCTION POINTS	EOC	EDGE OF CONCRETE
		BLD	BUILDING CORNER
		EOS	EDGE OF SIDEWALK

BENCHMARK #1:  
C.O.A. ID 3S6633NE005  
C.O.A. BC ON SOUTH BANK OF  
E-W CONCRETE LINED DRAINAGE  
DITCH, AND 2.7' NORTH OF E-W  
CL FENCE ON NORTH PROPERTY  
LINE OF ASSOC GROCERS,  
STAMPED C1/4 S33 T3S R66 W  
LS 2132 1982 ELEV ON S EDGE CAP  
ELEVATION = 5419.540 (NAVD88 DATUM)

BENCHMARK LOCATED OUTSIDE  
LIMITS OF THIS SHEET

BENCHMARK #2:  
C.O.A. ID 3S6633NW009  
3" METAL CAP IN STEEL PIPE  
ON SOUTH BANK OF E-W  
CONCRETE LINED DRAINAGE  
DITCH @ NW FENCE CORNER  
OF ASSOC. GROCERS AND  
STAMPED W1/16 C-C SEC 33  
LS 2132 1982 ELEV. E. EDGE OF CAP  
ELEVATION = 5412.31 (NAVD88 DATUM)

BENCHMARK LOCATED OUTSIDE  
LIMITS OF THIS SHEET



## KEY MAP

SCALE: 1"=250'

COORDINATES				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
2000	1698321.24	3201339.29	5420.50	BLD
2001	1698372.76	3201329.62	5420.50	BLD
2002	1698361.68	3201270.65	5420.50	BLD
2003	1698310.18	3201280.32	5420.50	BLD
2004	1698307.05	3201263.61	5420.44	EOS/ MATCH EX.
2005	1698306.34	3201259.87	5420.38	EOS/ MATCH EX.
2006	1698327.38	3201277.09	5420.50	EOC
2007	1698306.38	3201165.28	5414.81	EOC
2008	1698229.29	3201112.57	5415.54	EOC
2009	1698224.75	3201113.42	5415.63	EOCMATCH EX.
2010	1698224.91	3201138.03	5415.88	EOCMATCH EX.
2011	1698236.56	3201148.31	5415.48	EOCMATCH EX.
2012	1698244.35	3201146.62	5415.26	EOCMATCH EX.
2013	1698266.90	3201138.28	5415.29	EOC
2014	1698264.25	3201142.16	5415.52	EOCMATCH EX.
2015	1698287.39	3201263.43	5420.07	EOCMATCH EX.
2016	1698192.75	3201084.12	5415.40	EOCMATCH EX.
2017	1698193.16	3201119.36	5415.61	EOCMATCH EX.
2018	1698007.70	3201154.19	5415.36	EOCMATCH EX.
2019	1698001.24	3201119.25	5415.62	EOC

COORDINATES				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
2020	1698030.74	3201113.84	5415.25	EOC
2021	1698089.38	3201103.08	5414.52	EOC
2022	1698026.96	3201094.20	5415.21	EOC
2023	1698056.36	3201047.45	5415.09	EOC
2024	1698194.12	3201012.07	5415.68	EOCMATCH EX.
2025	1698219.79	3200966.88	5415.53	EOCMATCH EX.
2026	1698192.26	3200981.55	5415.50	EOC
2027	1698048.23	3201018.57	5415.29	EOC
2028	1697997.41	3201099.35	5415.57	EOC

RADIUS POINTS			
POINT #	NORTHING	EASTING	DESCRIPTION
1000	1698234.90	3201138.42	RP
1001	1698068.46	3201087.67	RP
1002	1698171.54	3200909.46	RP

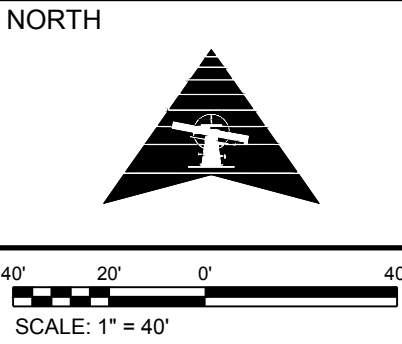
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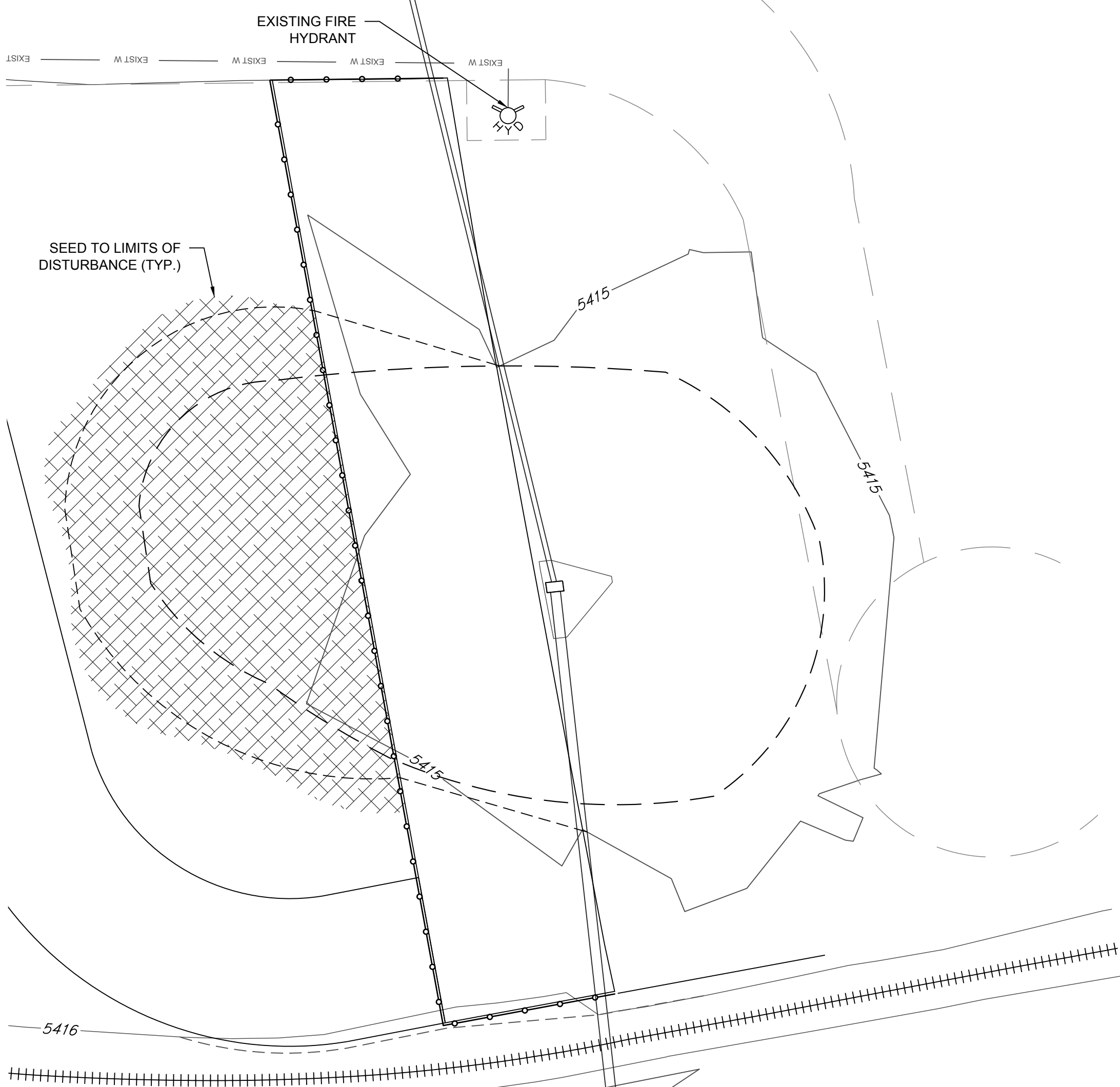
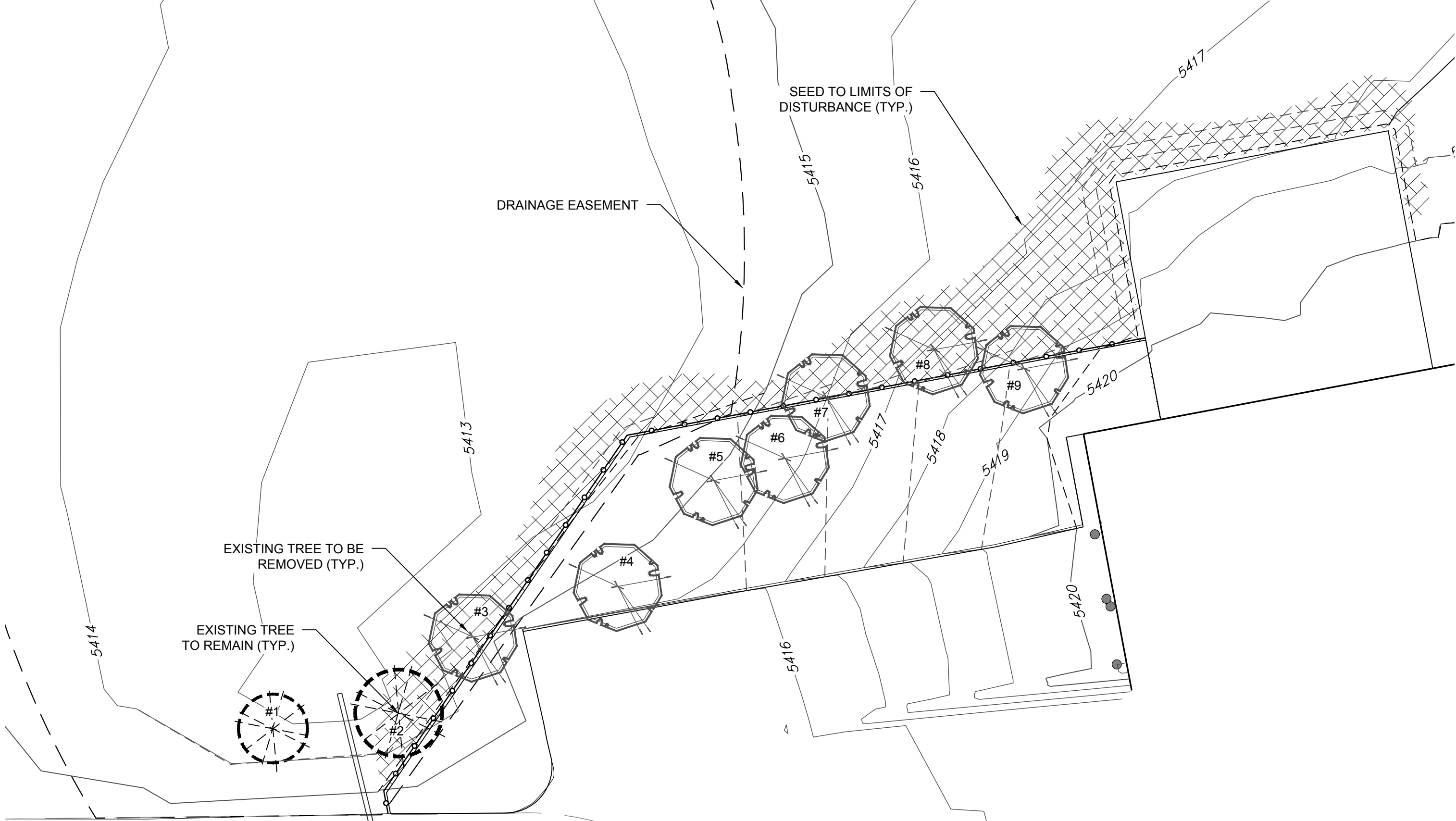


REVISION	DATE	DESCRIPTION
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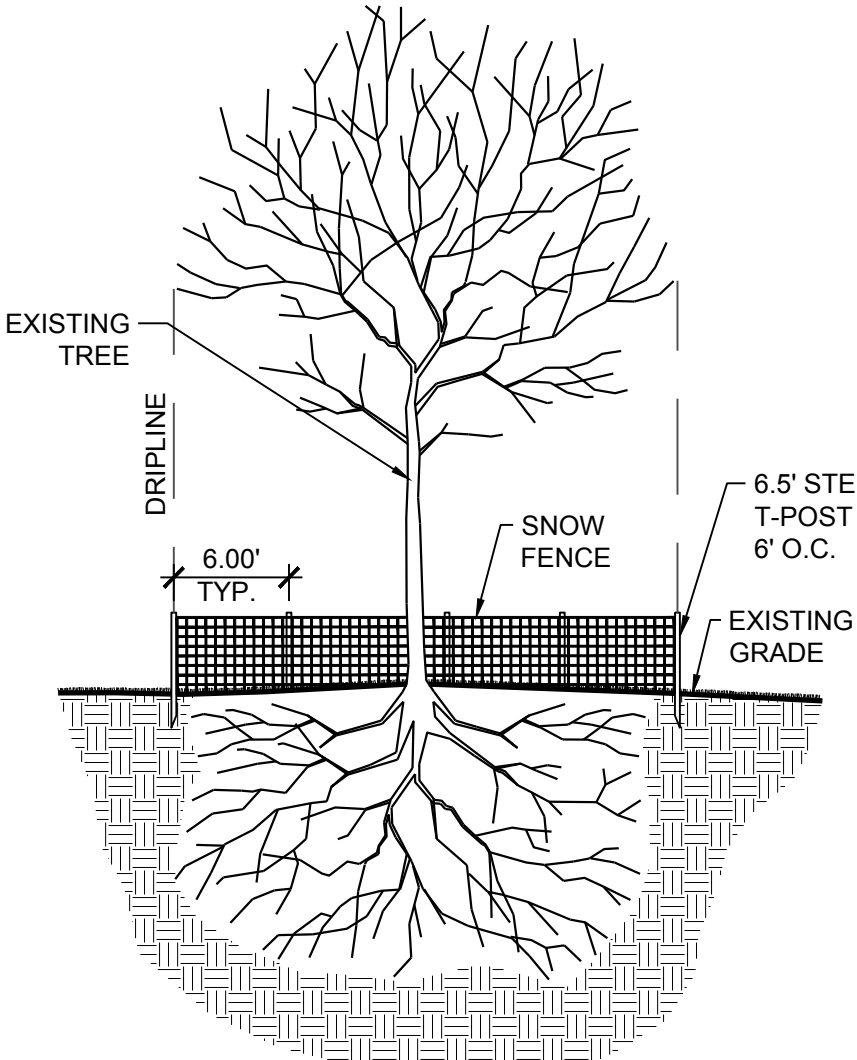
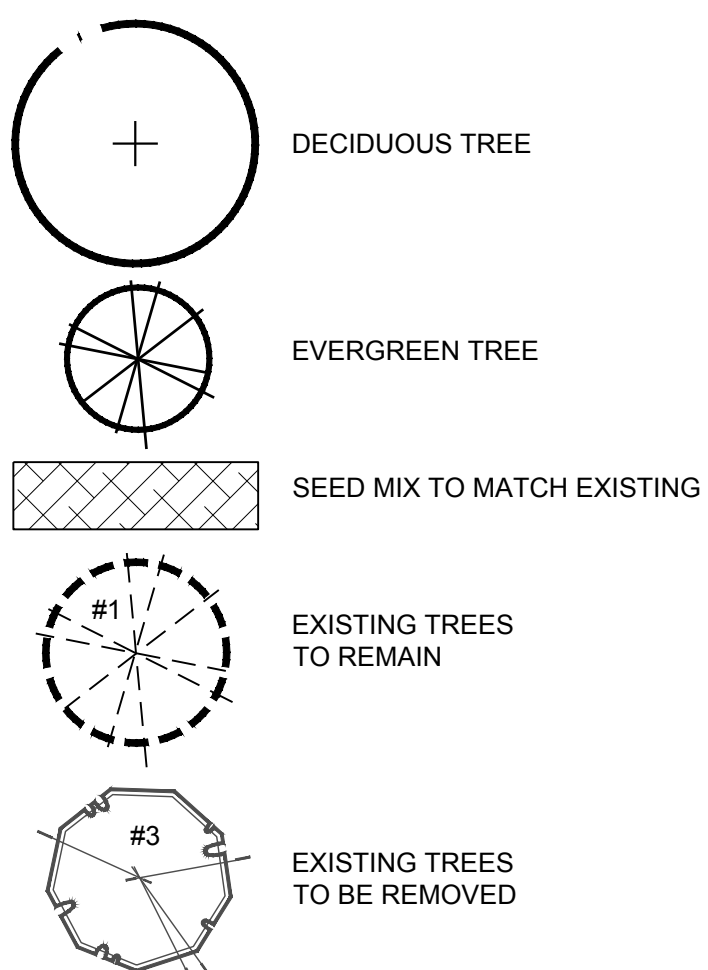
PROJECT #: 1808MN4039 CHECKED BY: JDH DRAWN BY: SKM
DATE: 02/25/2019
SHEET # <b>C4</b>
SHEET 4





1 LANDSCAPE PLAN  
L1 SCALE: 1"=20'-0"

LEGEND



2 TREE PROTECTION DETAIL  
L1 NOT TO SCALE

LANDSCAPE NOTES

1. THIS LANDSCAPE ARCHITECTURAL SITE PLAN IS TO BE USED IN CONJUNCTION WITH THE CIVIL, IRRIGATION, MECHANICAL, ELECTRICAL, AND ARCHITECTURAL CONSTRUCTION DOCUMENTS AND SPECIFICATIONS TO FORM COMPLETE INFORMATION REGARDING THIS SITE. IF A CONFLICT EXISTS BETWEEN THESE NOTES, DETAILS & SPECIFICATIONS THESE NOTES SHALL OVERRIDE THE DETAILS & THE DETAILS SHALL OVERRIDE THE SPECIFICATIONS.
2. LANDSCAPE CONSTRUCTION SHALL CONFORM TO ALL APPLICABLE STATE AND LOCAL CODES AND SPECIFICATIONS.
3. ALL MATERIAL AND WORKMANSHIP SHALL BE WARRANTED FOR ONE YEAR, FROM DATE OF FINAL ACCEPTANCE.
4. LANDSCAPE CONTRACTOR SHALL EXAMINE THE SITE CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED AND NOTIFY THE GENERAL CONTRACTOR IN WRITING OF UNSATISFACTORY CONDITIONS. DO NOT PROCEED UNTIL CONDITIONS HAVE BEEN CORRECTED.
5. BEFORE COMMENCING WORK, LANDSCAPE CONTRACTOR SHALL CONTACT APPROPRIATE UTILITY COMPANIES FOR UTILITY LOCATIONS, AND COORDINATE WITH GENERAL CONTRACTOR IN REGARD TO LOCATION OF PROPOSED UTILITIES, IRRIGATION SLEEVES, CONDUITS, ETC.
6. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE SUBMITTALS, CUT SHEETS OF MATERIALS & SOIL TEST RESULTS DIRECTLY TO THE OWNERS REPRESENTATIVE FOR APPROVAL. SEE SPECIFICATIONS FOR DETAILED SUBMITTAL INFORMATION.
7. REMOVE EXCESS SUB GRADE WHERE NECESSARY AND PLACE SPECIFIED TOP SOIL A MINIMUM DEPTH OF SIX INCHES (6") IN TURF AND GRASS AREAS AND TWELVE (12") INCHES IN SHRUB BEDS. DISTRIBUTE STOCKPILED TOPSOIL AND PROVIDE ANY ADDITIONAL TOPSOIL NEEDED.
8. ORGANIC SOIL AMENDMENTS AND FERTILIZERS SHALL BE INCORPORATED IN TO ALL PLANTING PITS AS IN THE DETAILS.
9. SOIL PREPARATION:  
ORGANIC SOIL AMENDMENTS AND FERTILIZERS SHALL BE INCORPORATED IN TO ALL LANDSCAPE AREAS AND PLANTING PITS. PROVIDE NO LESS THAN THE FOLLOWING QUANTITIES OF THE SPECIFIED AMENDMENT MATERIAL.  
BACKFILL FOR TREES & SHRUBS:  
Organic Soil Amendment: 1/4 by volume of backfill  
Planting Pit Excavated Material: 3/4 by volume  
Fertilizer Tablets: One 21 gram fertilizer tablet for each 1/2 inch of tree trunk caliper and on tablet per 12 inches height, or spread, whichever is greater, of each shrub per manufacturers recommendations.  
ORGANIC SOIL AMENDMENTS SHALL BE A COMPOSTED ORGANIC WOOD AND MANURE BASED PRODUCT WITH A CARBON TO NITROGEN RATIO BETWEEN 15:1 AND 30:1 WITH A PH OF 6 TO 8, AND A SALT CONTENT BELOW 6 MMHOS/CM. THE ORGANIC SOIL AMENDMENT SHALL BE FREE FROM ALL VIABLE WEED SEEDS, AND BE FINELY SHREDDED TO PASS 70% THROUGH A 1/8" MESH. SPREAD ORGANIC AMENDMENTS MATERIAL EVENLY OVER AREA.
10. ALL PLANT MATERIALS SHALL BE AS SPECIFIED AND MEET OR EXCEED SIZE IN SCHEDULES. OWNER'S REPRESENTATIVE RESERVES THE RIGHT TO REFUSE PLANT MATERIALS WHICH DO NOT MEET THE QUALITY REQUIRED FOR THE PROJECT PER SPECIFICATIONS.  
ALL SHADE TREES MUST NOT HAVE LIMBS THAT ARE LESS THAN 6' FROM THE ROOT CROWN. AFTER TWO YEARS OF GROWTH SHADE TREES SHALL HAVE THE LOWER LIMBS REMOVED SO THAT THERE WILL BE 8' OF CLEARANCE ABOVE ANY PAVED SURFACE. EACH TREE THAT IS LIMBED UP MUST HAVE LIMBS REMOVED ALL THE WAY AROUND THE TREE SO THAT IT IS EVENLY BALANCED.
11. ALL TREE AND SHRUB BED LOCATIONS ARE TO BE STAKED OUT ON SITE FOR APPROVAL BY OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
12. BARK MULCH (TO MATCH EXISTING) IS TO BE SPREAD FOUR (4) INCHES DEEP IN MULCH RINGS FOR TREES IN TURF SHALL BE FOUR (4) FOOT DIAMETER MIN. FOR SHADE AND EVERGREEN TREES.

TREE MITIGATION TABLE

TREE MITIGATION TABLE PROVIDED BY THE CITY FORESTRY DEPARTMENT					
TREE #	EXISTING TREE SPECIES	DIA.	MITIGATION VALUE	COMMENTS	REQUIRED MITIGATION INCHES
1	Tatarian Maple	2	\$0.00	PRESERVED	0
2	Tatarian Maple	2	\$0.00	PRESERVED	0
3	Austrian Pine	6	\$217.86	REMOVED	2
4	Austrian Pine	11	\$690.51	REMOVED	4
5	Austrian Pine	12	\$818.41	REMOVED	5
6	Hackberry	15	\$1,353.41	REMOVED	6
7	Austrian Pine	11	\$690.51	REMOVED	4
8	Austrian Pine	6	\$217.86	REMOVED	2
9	Honeylocust	8	\$373.56	REMOVED	3
Total		73	\$4,362.12		28

CALIPER INCHES REMOVED	CALIPER INCHES RELOCATED	CALIPER INCHES REQUIRED FOR MITIGATION*	CALIPER INCHES REPLACED FOR MITIGATION	MITIGATION VALUE TO BE PAID IN LIEU
73 INCHES	0 INCHES	28 INCHES	0 INCHES	\$4,362.12

\* CALIPER INCHES REQUIRED FOR MITIGATION PROVIDED BY FORESTRY DEPARTMENT

OPTIMA BATTERIES, INC., SUB FILING NO. 1

OWNER:  
MANKO WINDOWS SYSTEMS INC.  
STEVE JONES  
17500 E. 22ND AVE.  
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AURORA, COLORADO



REVISION	DATE	DESCRIPTION
1	00/00/00	

NORTH

20' 10' 0' 20'  
SCALE: 1" = 20'

PROJECT #: 1808MN4039  
CHECKED BY: KML  
DRAWN BY: KML

DATE: 11/05/2018

SHEET #

L1

SHEET 5



STRUCTURAL GENERAL NOTES

1. General

- A. These notes and other drawing notes contained within, are provided to meet specific requirements and to supplement the contract specifications. These notes neither replace nor override the provisions and requirements for the contract specifications.
- B. Contractor shall coordinate all structural work with work shown on all other drawings.
- C. Contract drawings and specifications represent the finished structure. Contractor shall be responsible for all means and methods of construction including; but not limited to, shoring and temporary bracing. Contractor shall undertake all necessary measures to endure safety of all persons and structures at the site and adjacent to the site. Visits to the site by the owner or the engineer shall not relieve the contractor of such responsibility.
- D. If certain features are not fully shown or called for on the contract drawings or specifications, their construction shall be of the same character as for similar conditions that are shown or called for, with the approval of the contracting officer. Where sections vary, contractor shall provide smooth transitions between them, unless noted otherwise.
- E. All products shall be installed in accordance with the manufacturers' written instructions and recommendations, unless noted otherwise.

2. STRUCTURAL DESIGN CRITERIA

- A. The structural design loading was determined using the latest edition of the International Building Code and ASCE-7 (Minimum Design Loads for Buildings and Other Structures), the following design loads were used for the building design in addition to the dead weight of the structure, walls, ceilings, roofing, finishes, etc.:
- B. Gravity Loads
1. Roof : 34 psf (Ground Snow Load)
- C. Lateral Loads
1. Wind Criteria
- |   |            |
|---|------------|
| Wind Velocity:  | 115 mph    |
| (The basic wind speed corresponds to a 3 sec. gust at 33 ft. above ground.) |            |
| Risk Category   | II         |
| Exposure Category:  | C          |
| Internal Pressure Coefficient:  | ±.55       |
| Importance Factor:  | 1.0        |
| C & C Walls   | 26.91 psf  |
| C & C Roof  | -26.91 psf |
2. Seismic Criteria
- |                                |                                    |
|--------------------------------|------------------------------------|
| Risk Category                  | II                                 |
| Seismic Importance Factor      | 1.0                                |
| Ss:                            | 0.171 g                            |
| S1:                            | 0.056 g                            |
| Site Class:                    | D                                  |
| SDS:                           | 0.182 g                            |
| SD1:                           | 0.090 g                            |
| Seismic Design Category:       | B                                  |
| Lateral force resisting system | Ordinary Concrete Shearwalls       |
| V                              | 26.65 Kips (Controls)              |
| Cs                             | .1476                              |
| R                              | 4                                  |
| Analysis procedure used        | Equivalent lateral force procedure |
- D. Foundation Criteria
1. Allowable Bearing Pressure: 2000 psf (Column and Wall Footings)

3. FOUNDATIONS

- A. Footings
1. Column and wall footings shall bear below any fill material and on stiff to very stiff native clay soils capable of safely supporting a specified allowable bearing pressure. The consulting engineering geologist shall verify the proper depth, quality of bearing material, and condition of bottom of excavation for all footings prior to placing of concrete.
2. In the event a satisfactory bearing material is encountered at a lower elevation than that shown, the base of spread footings shall be lowered and the footing constructed with increased depth, placing the noted footing bars 3" clear from the bottom and maintaining the noted top of footing as originally detailed. Reinforcing in wall footings which require deepening shall be maintained at its original location with the base of the footing excavation lowered as required. As an alternative to lowering the bottom of footings, excavations down to suitable bearing material may be filled with "flowable fill" back to proper bearing elevation. In no event shall the wall or column footings be constructed with a depth less than that shown in the design drawings.
3. All footings shall be poured to lines of neat excavation without formwork.

4. STRUCTURAL CONCRETE AND REINFORCING STEEL

- A. The structural concrete has been designed in accordance with the latest edition of ACI "Building Code for Reinforced Concrete", ACI 318. All concrete work shall conform to ACI "Specifications for Structural Concrete in Buildings", ACI 301.
- B. All structural concrete shall be normal weight concrete and shall have a minimum design compressive strength, f<sub>c</sub>, of 3000 psi at 28 days with a minimum 7 day strength of 2000 psi. Concrete for exterior work such as sidewalks, drives, curbs, etc., shall be air-entrained concrete (6%± 1%) having a minimum design compressive strength, f<sub>c</sub>, of 4500 psi at 28 days and a maximum water/cement ratio of 0.45.
- C. All reinforcing bars shall conform to ASTM A615-85 Grade 60. Welded wire reinforcement shall conform to ASTM A185 and shall be furnished in flat sheets.
- D. The minimum concrete coverage for reinforcing, unless otherwise noted, shall be 3/4" for formed slabs, 1 1/2" for ties and stirrups, 2" for formed walls and 3" for footings and other concrete deposited directly against earth. Bar supports shall be furnished in accordance with recommendations of ACI 315 (Detailing Manual). Welded wire reinforcement in slabs on grade shall be supported by metal chairs with sub-grade plates or on concrete bricks at 3'-0 cts, each way. "Pulling up" of fabric after concrete is deposited will not be allowed.
- E. All bars shall lap with the proper development length as specified in ACI 318 at splices unless otherwise noted. Welded wire reinforcement shall be spliced with a minimum lap of one mesh space plus 2' between outermost cross wires for slabs on grade.
- F. It shall be the responsibility of the Contractor that the bar lengths of all bars conform to applicable notes and details and that the actual number of bars used conforms to the noted spacing.

5. STRUCTURAL STEEL

- A. All structural steel work shall conform to the AISC "Specifications for the Design, Fabrication and Erection of Structural Steel for Buildings" and the AISC "Code of Standard Practice for Steel Buildings and Bridges".
1. Welding shall conform to the AWS "Structural Welding Code", D1.1, Sections 1 through 8. All weld filler metal shall have a minimum yield strength of 60 ksi.
2. Steel tubing shall conform to ASTM A500, Grade B with a minimum yield strength of 46,000 psi.
3. Steel pipe shall conform to ASTM A53, Type E or S, Grade B.
4. Wide Flange W-Shapes shall conform to ASTM A992 with a minimum yield strength of 50,000 psi.
5. All other structural steel shall conform to ASTM A36 with a minimum yield strength of 36,000 psi.
- B. Field bolts shall be 3/4" A325 High Strength Bolts in 13/16" holes except where shown otherwise. All bolts shall be installed with washers provided under the turning element. Unless otherwise indicated, all bolts shall be installed to a snug-tightened condition.
- C. Unless otherwise noted, all structural steel exposed to weather shall be hot dipped galvanized in accordance with ASTM A123. All fasteners connecting galvanized steel shall be galvanized in accordance with ASTM 153 and installed in holes oversized for the additional coating.
- D. Detailing, fabrication, and erection of structural steel shall incorporate all applicable requirements of the Occupational Safety and Health Administration (OSHA) Safety and Health Standards for the Construction Industry, 29 CFR 1926 (including Part R Safety Standards for Steel Erection).
- E. Proper fit in the field in accordance with good standard practice is the responsibility of the Contractor. See Architectural Drawings and Specifications for painting, miscellaneous iron and steel, and for provisions for fastening the work of other trades.

6. STEEL JOISTS

- A. All steel joists shall be standard open-web steel joists of the series and designation as shown on these drawings.
- B. Joists shall be designed, manufactured and erected in accordance with the latest Standard Specifications of the Steel Joist Institute.
- C. All joists shall be field-welded to supports as detailed and in accordance with the manufacturer's recommendations.
- D. Detailing, fabrication, and erection of steel joists shall incorporate all applicable requirements of the Occupational Safety and Health Administration (OSHA) Safety and Health Standards for the Construction Industry, 29 CFR 1926 (including Part R Safety Standards for Steel Erection).
- E. Except where otherwise noted all joists shall be designed and fabricated for a minimum shear stress reversal in the webs of 25% of their maximum end reaction over the center 1/4 of span.
- F. In addition to the standard gravity loads corresponding to the scheduled joist designations joists shall also be designed and installed to safely resist a net wind uplift suction of 5 psf. Any bridging required for uplift loads in addition to that indicated on plans shall be as recommended by joist manufacturer.
- G. Sloping joists shall be designed for the standard gravity loads corresponding to the scheduled joist designations and shall be fabricated with sloped bearing ends as required.
- H. Bridging shall comply with SJI and AISC Specifications and shall be placed in accordance with the manufacturer's recommendation.

7. STEEL ROOF DECK

- A. All steel roof deck shall be 1 1/2" nominal depth, 20 ga. min. thickness, Wide Rib Deck.
- B. All steel roof deck shall be designed, manufactured and installed in accordance with the latest standard specifications of the Steel Deck Institute.
- C. All decks shall be capable of supporting a total design load of 60 psf with a maximum live load deflection of 1/240 for all conditions of span based on center to center of supporting members.
- D. Deck shall be continuous over 3 spans wherever possible.
- E. All deck shall be fastened to supports, extreme edges, and intermediate side laps to provide a minimum diaphragm shear strength of 450 pounds per linear foot and in accordance with manufacturer's recommendations.

8. PRECAST WALLS

- A. All precast walls shall be precast/prestressed walls capable of resisting the lateral loads designated on the drawings.
- B. All precast walls and embeds shall be designed by the precast fabricator and in accordance with the current PCI "Code of Standard Practice for Precast Concrete". Computations for the design of the wall members shall be stamped by a licensed professional engineer in the state of Kansas and submitted for approval with the shop drawings.
- C. Each wall unit shall be anchored to the supporting structure according to the precast designers recommendation.
- D. See Architectural and Mechanical Drawings for miscellaneous embedded items and for openings thru walls not shown on the Structural Drawings. Openings 5" and smaller may be field cut with the approval of the Architect. Care shall be taken to avoid cutting the areas containing pretension wires.

9. SPECIAL INSPECTIONS

- A. Required in accordance with IBC Section 1704.
1. Frequency: Continuous unless specifically permitted by the principal code of record to be periodic.
2. Special inspector: Qualified person who has demonstrated competence to the satisfaction of the contracting officer.
- B. Soils: Site preparation, bearing services fill materials and placement, and evaluation of in-place density.
- C. Concrete Construction
1. Mix design and materials
2. Installation of embedded anchor bolts
3. Placement, curing, and protection techniques
4. Sampling and testing during placement
5. Strength verification
6. Exceptions: Non-structural slab on grade
- D. Reinforcing steel
1. Type, size, and grade
2. Placement
- E. Steel Construction
1. In-plant fabrication or fabrication certification
2. Materials, including weld fillers and high strength bolts
3. Welding and high strength bolt installation
4. Adhesive anchors
5. Framing and joint details, including stiffeners
6. Joist placement location, size and connections
- F. Masonry
1. Verification of proportions of site prepared mortar
2. Construction of mortar joints
3. Location of reinforcement & connectors (including bar positioners)
4. Verify size, grade and type of reinforcement
5. Verify welding of reinforcement bars.
6. Verify type size and location of anchors
7. Verify protection of masonry during cold weather (below 40 deg.) or hot weather (above 90 deg.)
8. Verify prior to grouting that grout space is clean
9. Verify proportions of site prepared grout
10. Grout placement must be continuously verified to ensure compliance with code and construction document provisions
11. Preparation of required grout specimens, mortar specimens and/or prisms shall be observed.
12. Verify placement of all structural embeds



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JOB NO: 18-003  
DATE: 1.04.2019

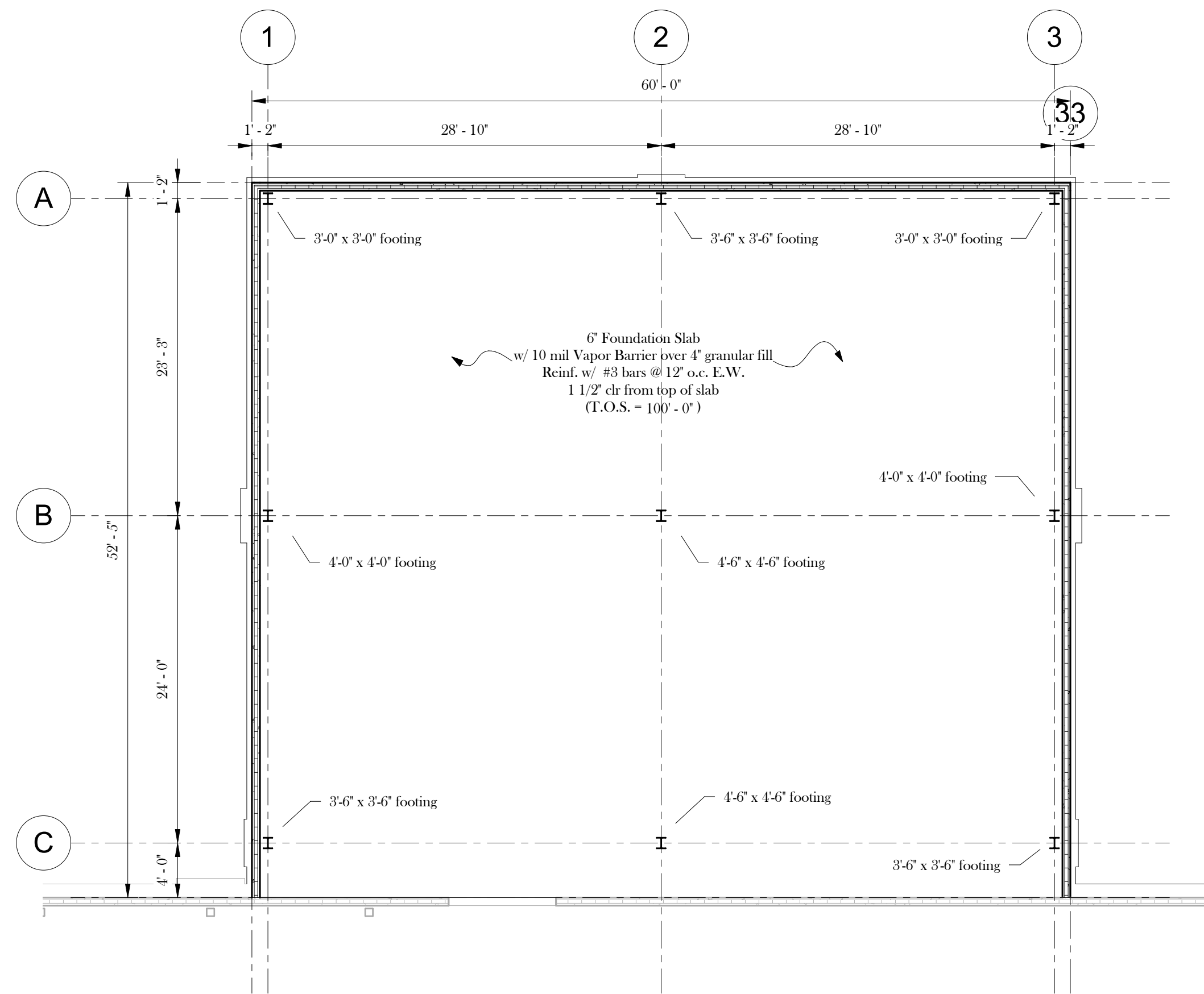
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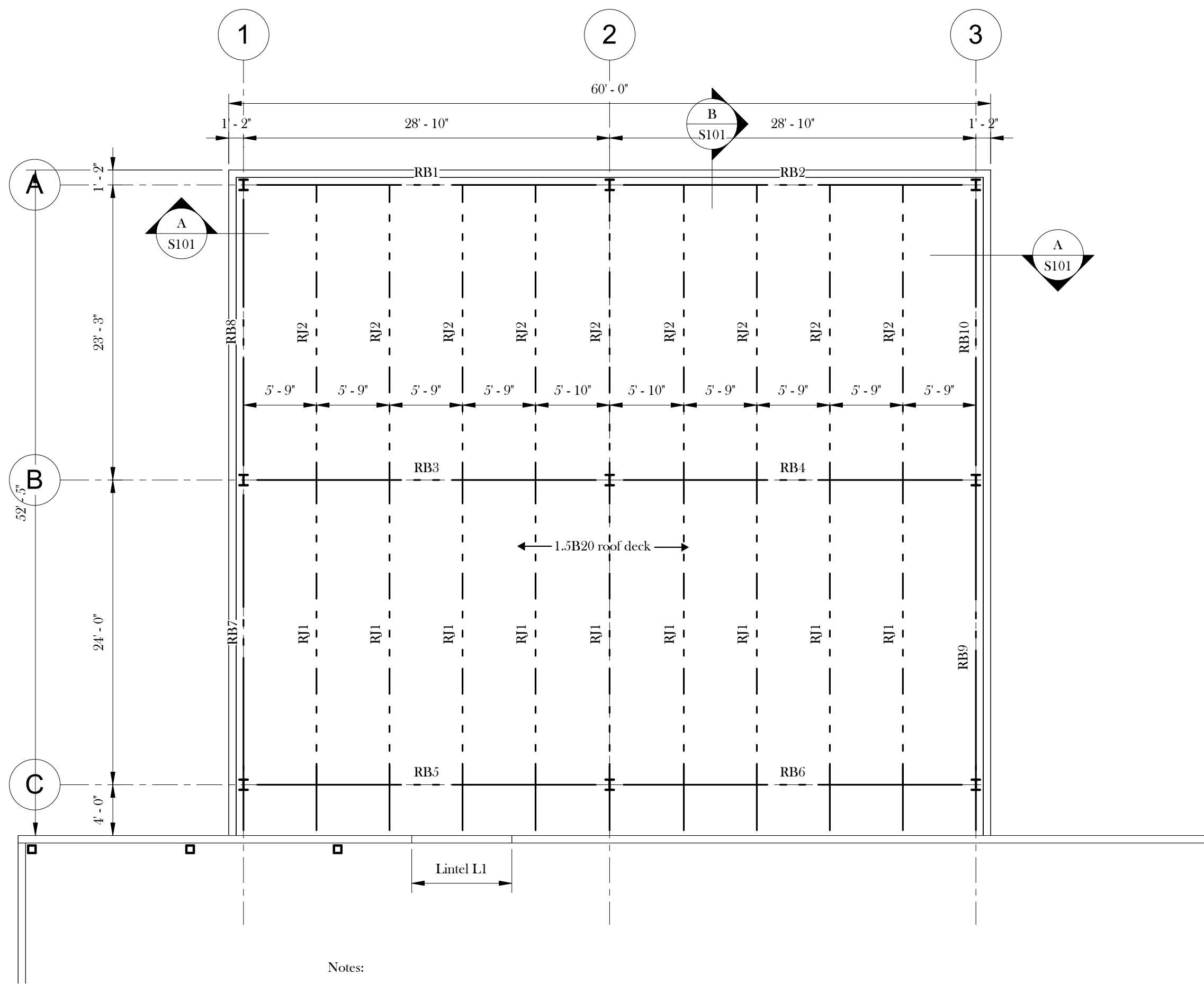
General Notes

S100





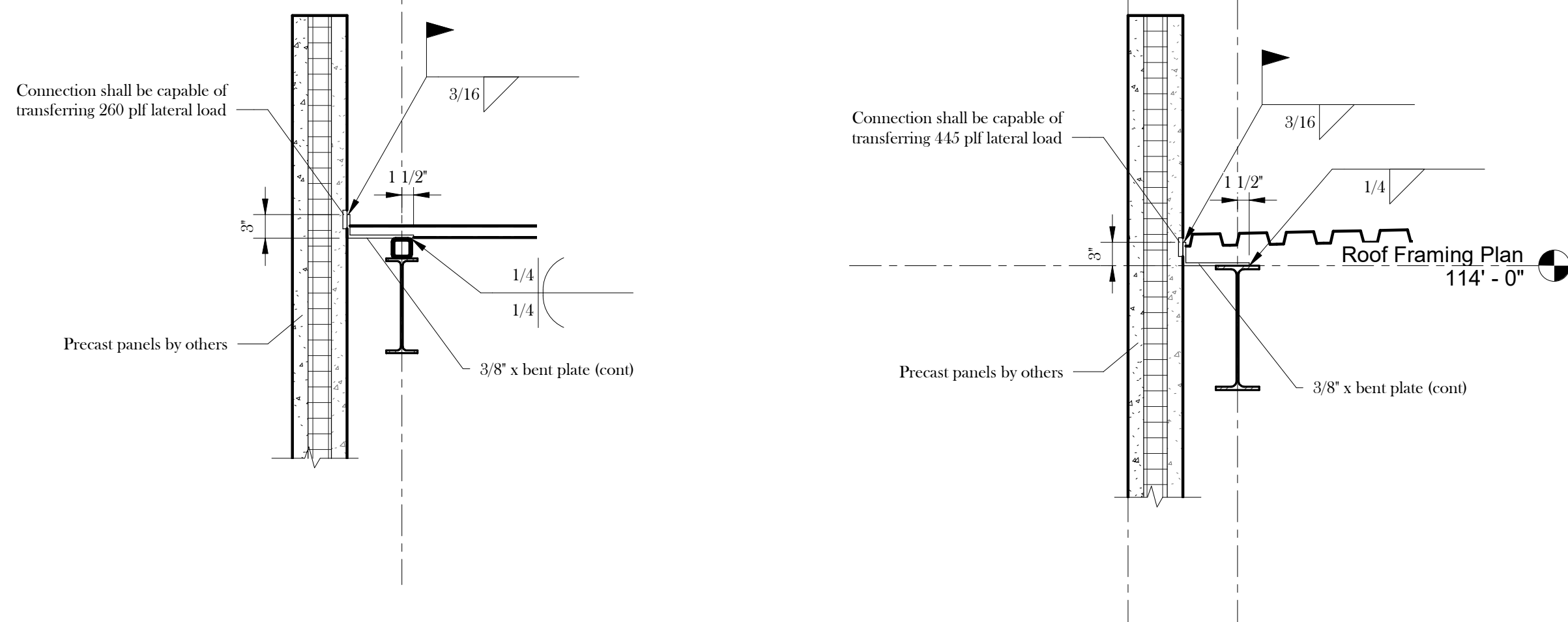
- Notes:
- All steel columns shall be W10x33 w/ base plate BP1



- Notes:
- All steel columns shall be W10x33 w/ base plate BP1
  - Roof deck shall be 1.5B20 steel deck, with 5/8" puddle weld support fasteners in a 36/4 pattern w/ 6 #10 TEK screw sidclaps per panel.
  - See architectural drawings for size and location for door opening through existing wall.
  - Field verify thickness of wall prior to fabrication of lintel and jamb members for new opening.

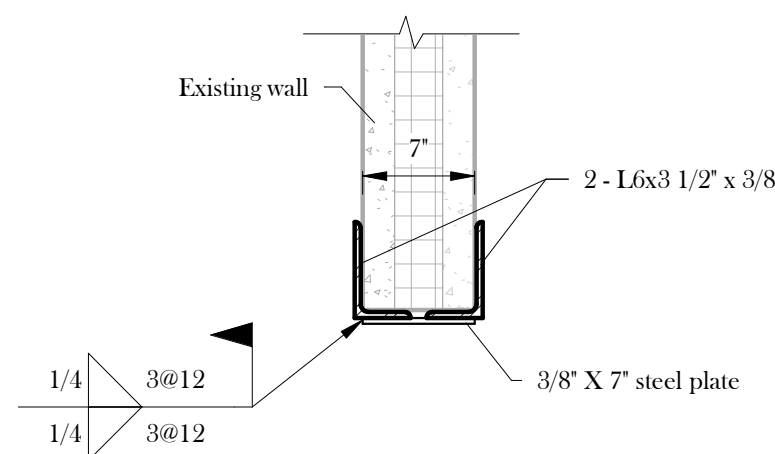
1 1st Floor Framing & Foundation Plan  
1/8" = 1'-0"

2 Roof Framing Plan  
1/8" = 1'-0"

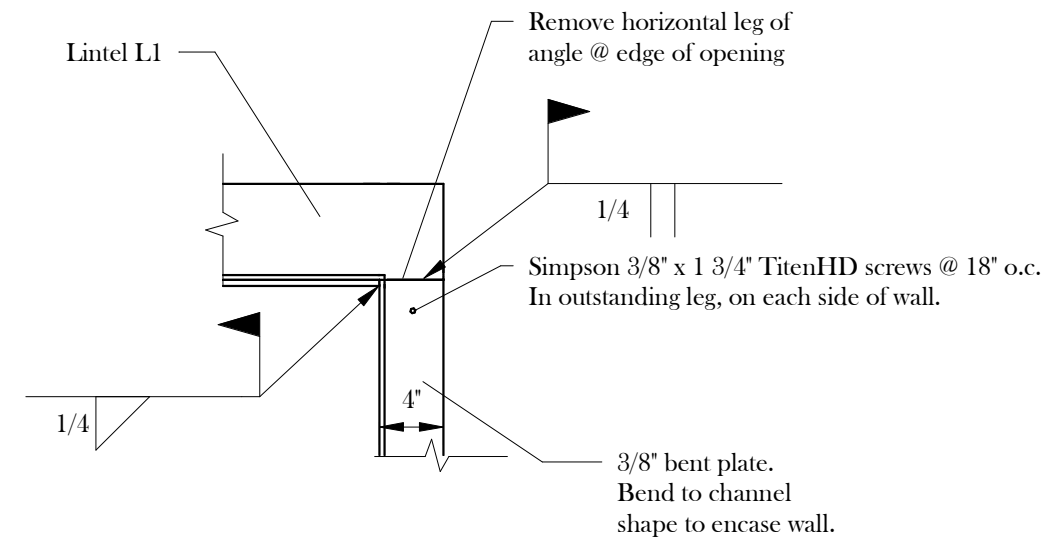


A Precast Connection @ Roof A  
3/4" = 1'-0"

B Precast Connection @ Roof B  
3/4" = 1'-0"



L1 Lintel L1  
1" = 1'-0"



3 Lintel Jamb  
1" = 1'-0"



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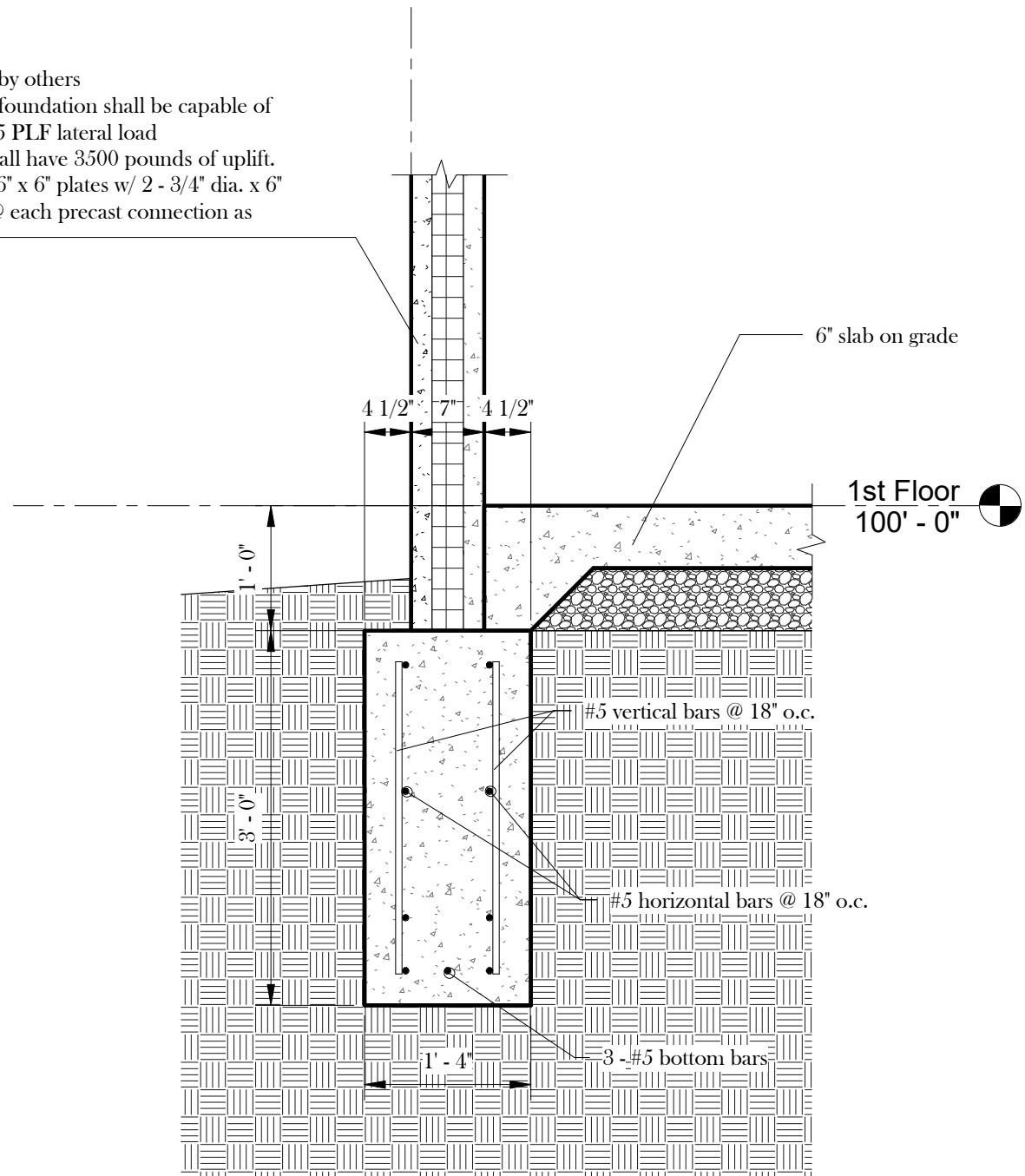
REVISIONS:


Framing Plans & Details

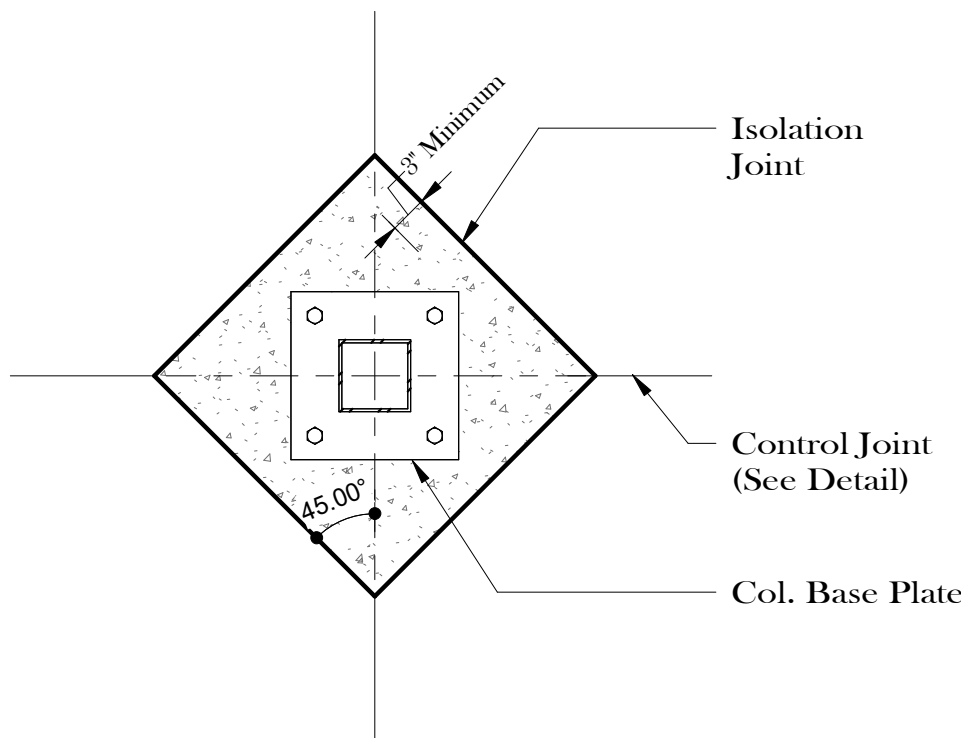
S101



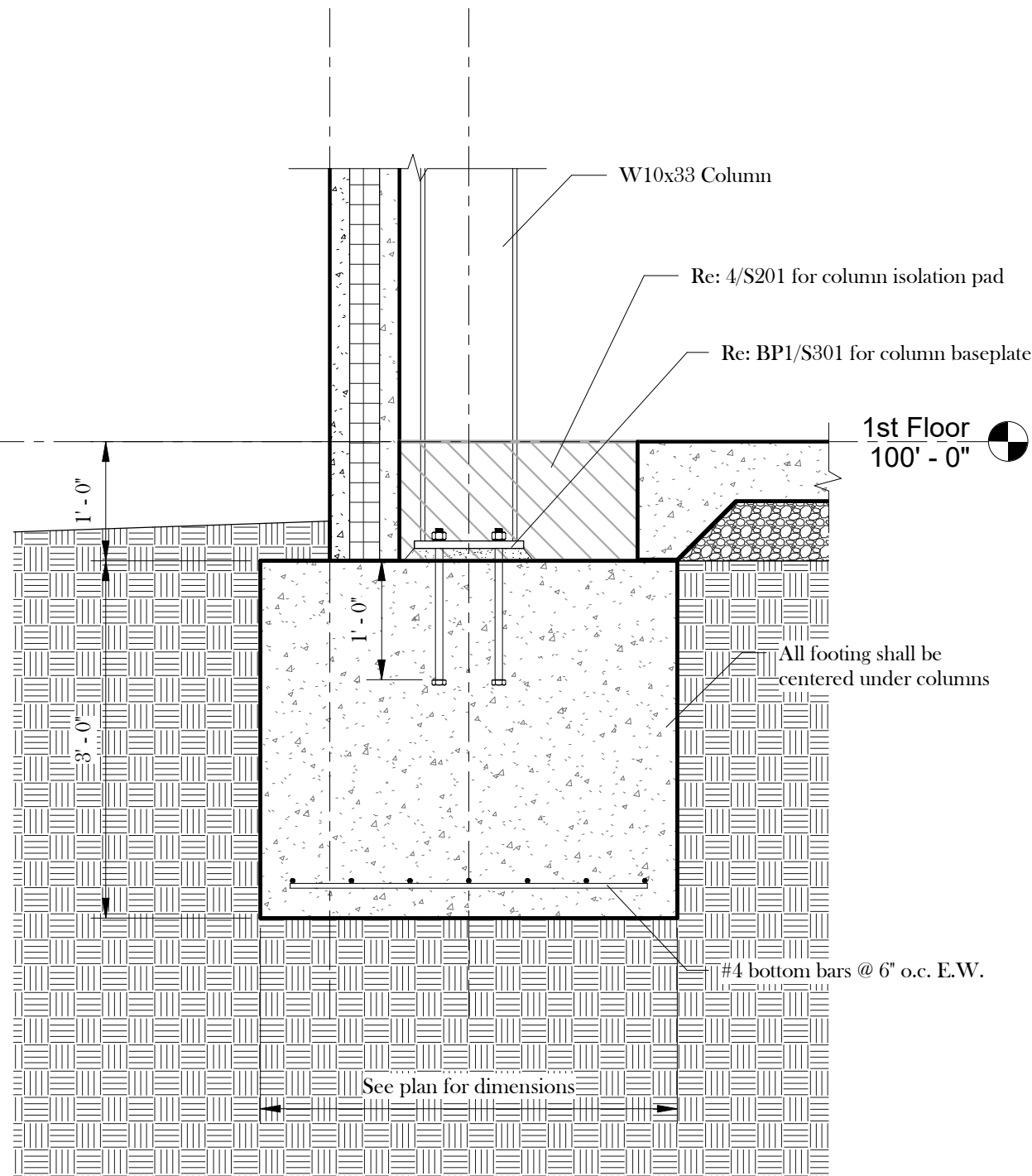
Precast panels by others  
Connection to foundation shall be capable of  
transferring 445 PLF lateral load  
Each corner shall have 3500 pounds of uplift.  
Provide 3/8" x 6" x 6" plates w/ 2- 3/4" dia. x 6"  
headed studs @ each precast connection as  
necessary



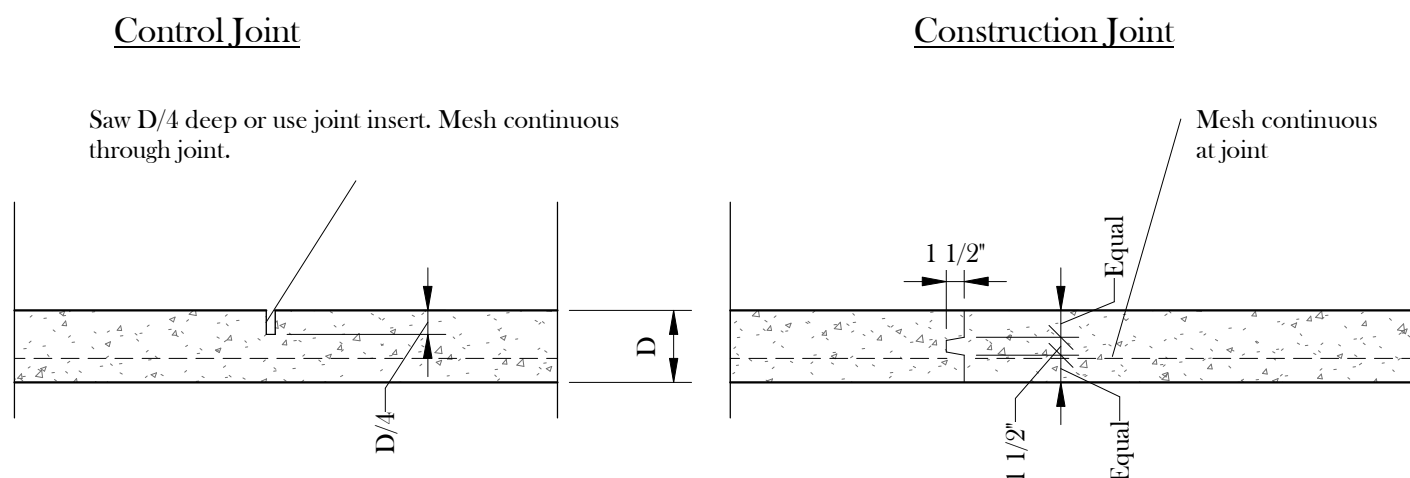
1 Typical Frostwall  
3/4" = 1'-0"



4 Column Isolation Pad  
3/4" = 1'-0"

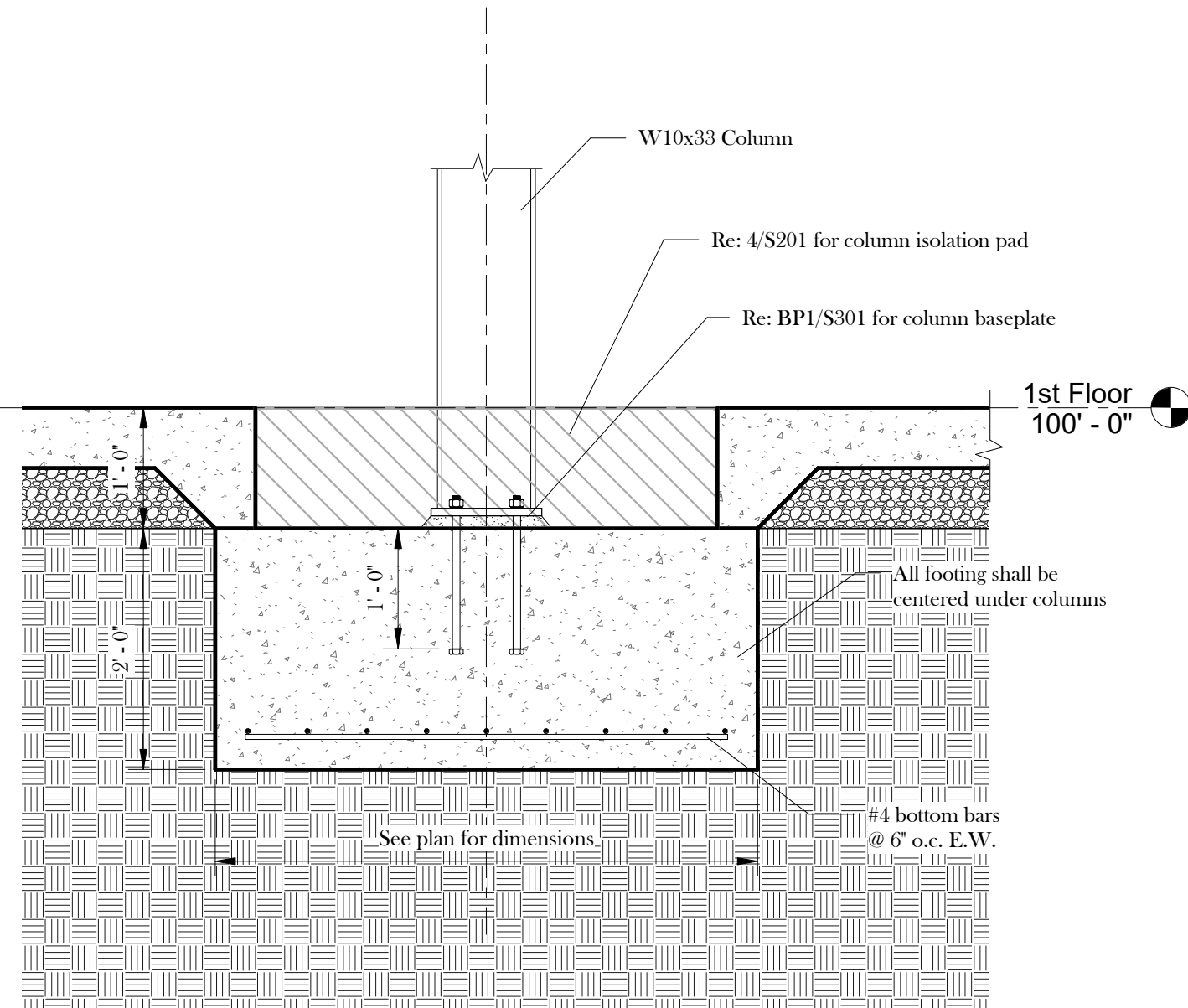


2 Typical Exterior Column Footing  
3/4" = 1'-0"

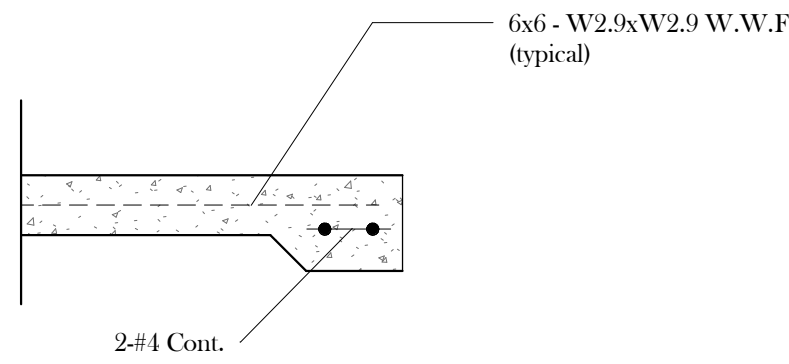


Note:  
All slabs on grade shall be constructed with control joints in square or rectangular patterns  
with a length to width ratio of 1 or less. Control joints shall be spaced no further than 20'-0"  
apart. At the contractors option a construction joint may be used in lieu of any control joint.

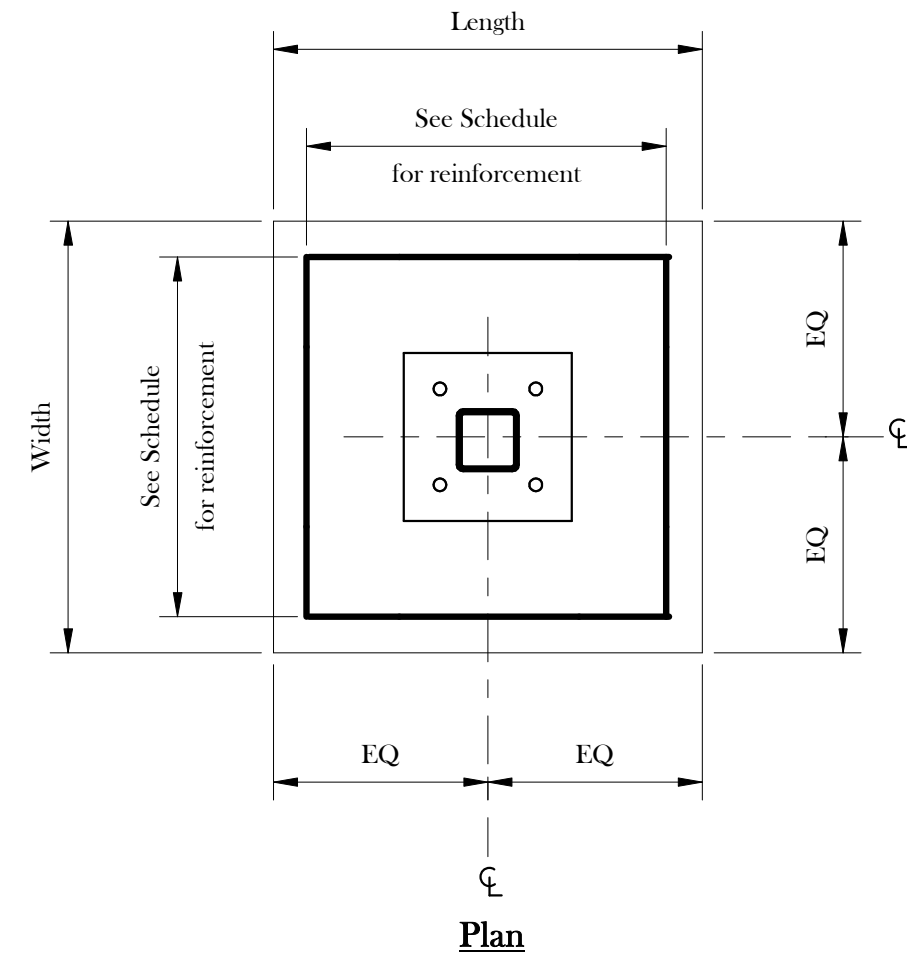
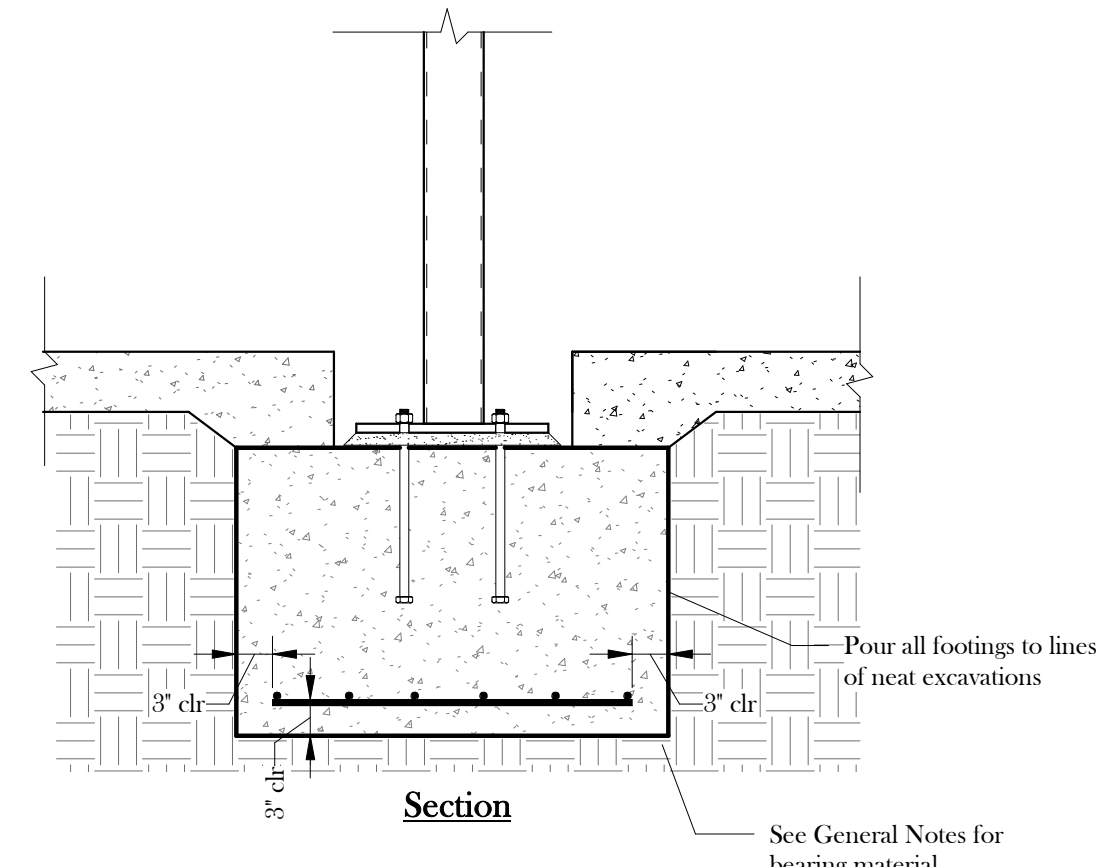
5 Slab Control Joint  
3/4" = 1'-0"



3 Typical Interior Column Footing  
3/4" = 1'-0"



6 Thickened Slab at Free Slab edges  
3/4" = 1'-0"



7 Typical Column Footing Detail  
3/4" = 1'-0"



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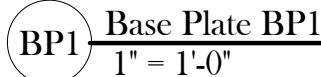
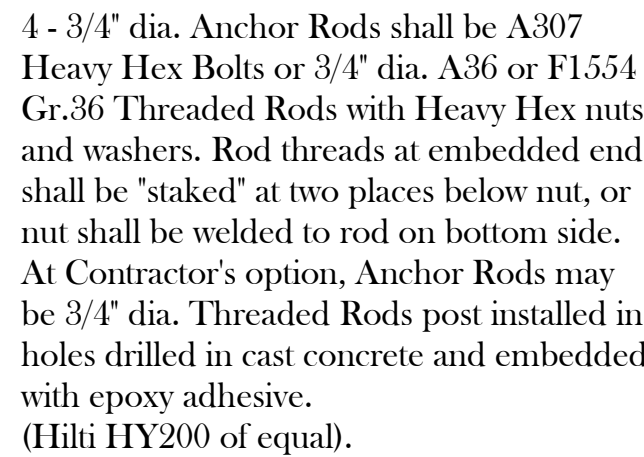
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Concrete Details

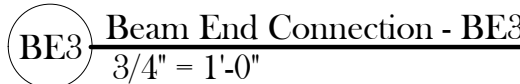
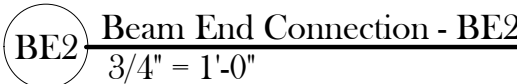
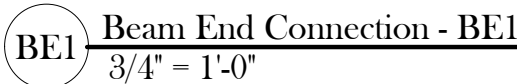
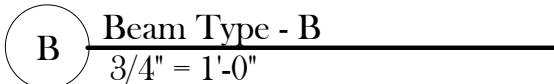
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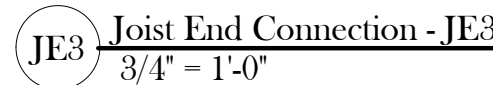
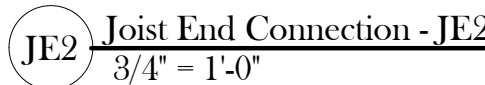


1 Typical W-Shape Column Elevation  
3/4" = 1'-0"

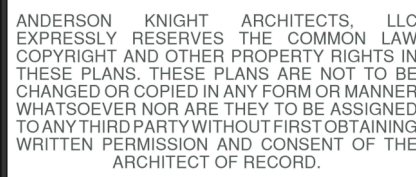
Beam Type - A  
3/4" - 1'-0"



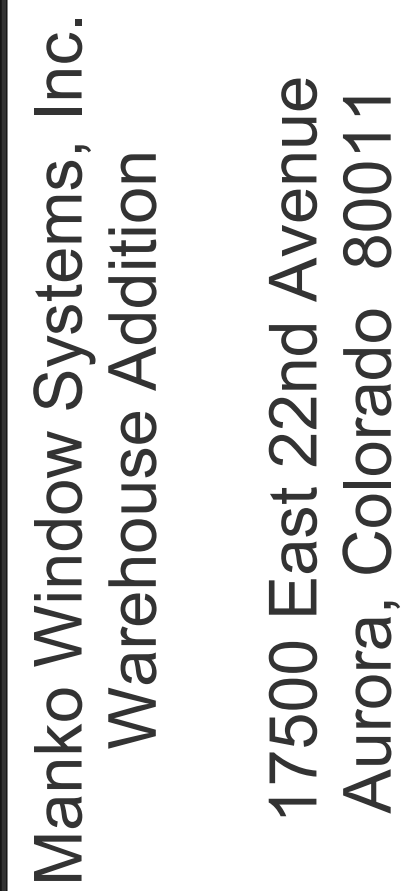
JE1 Joist End Connection - JE1  
3/4" = 1'-0"



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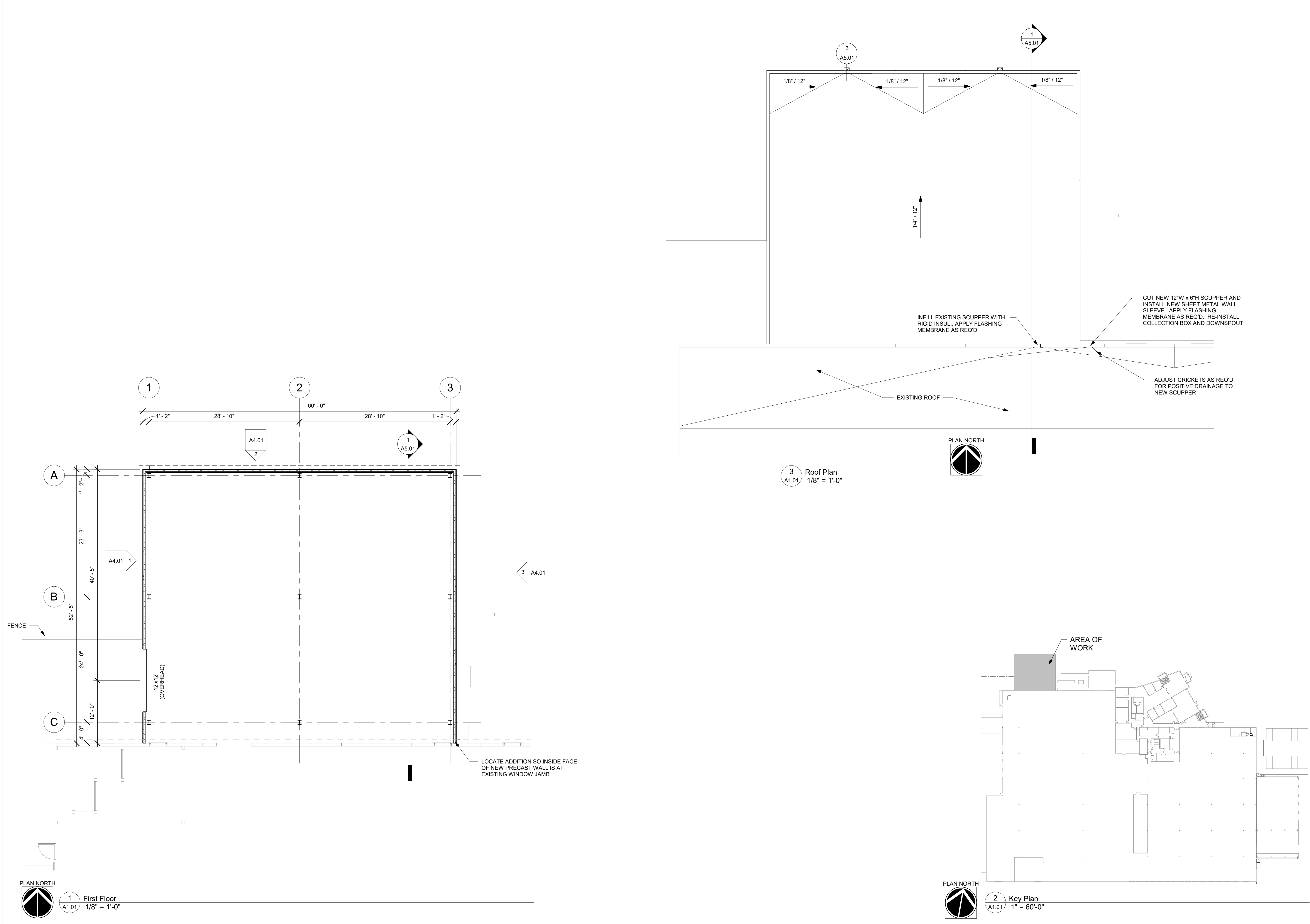
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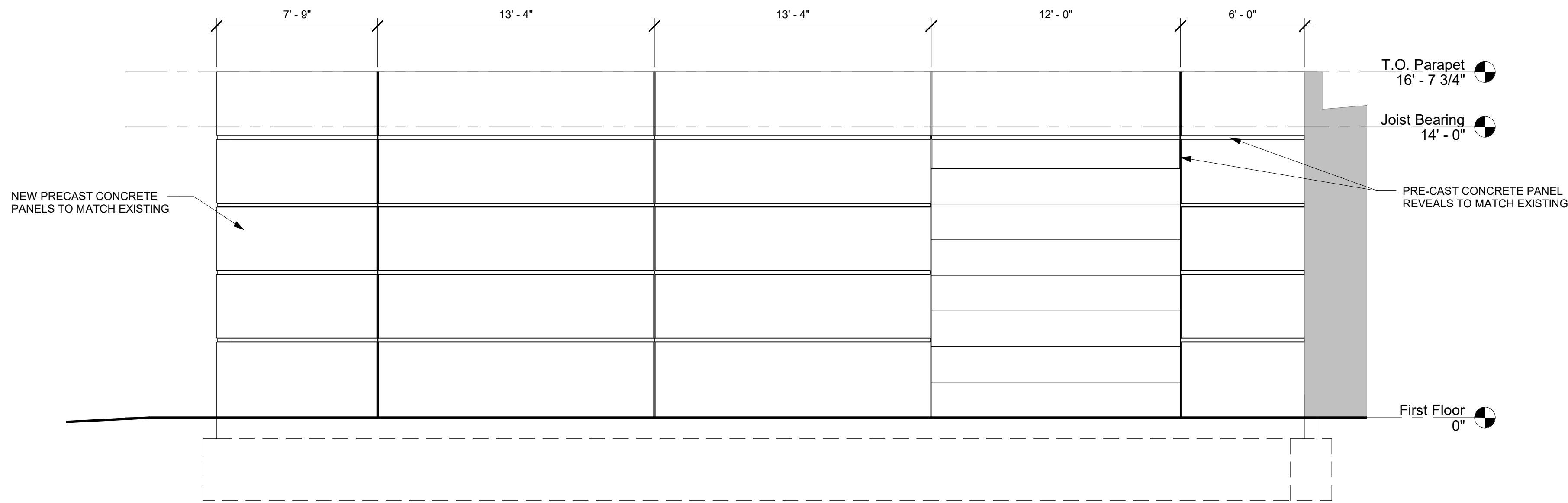
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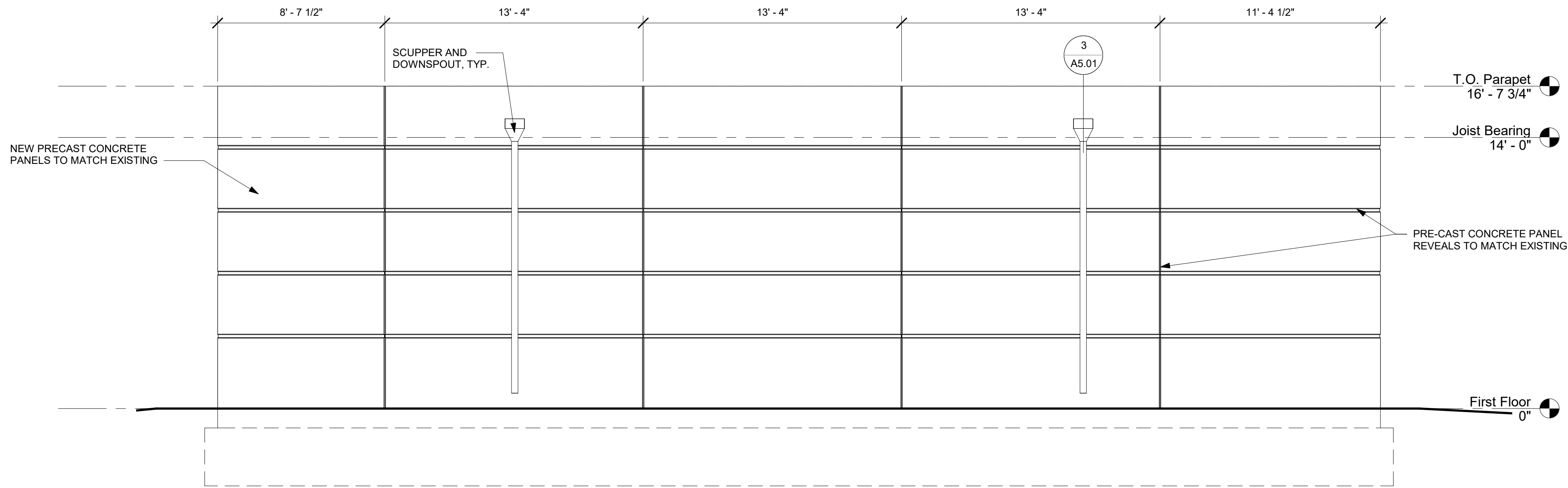
Floor Plan and Roof  
Plan

**A1.01**

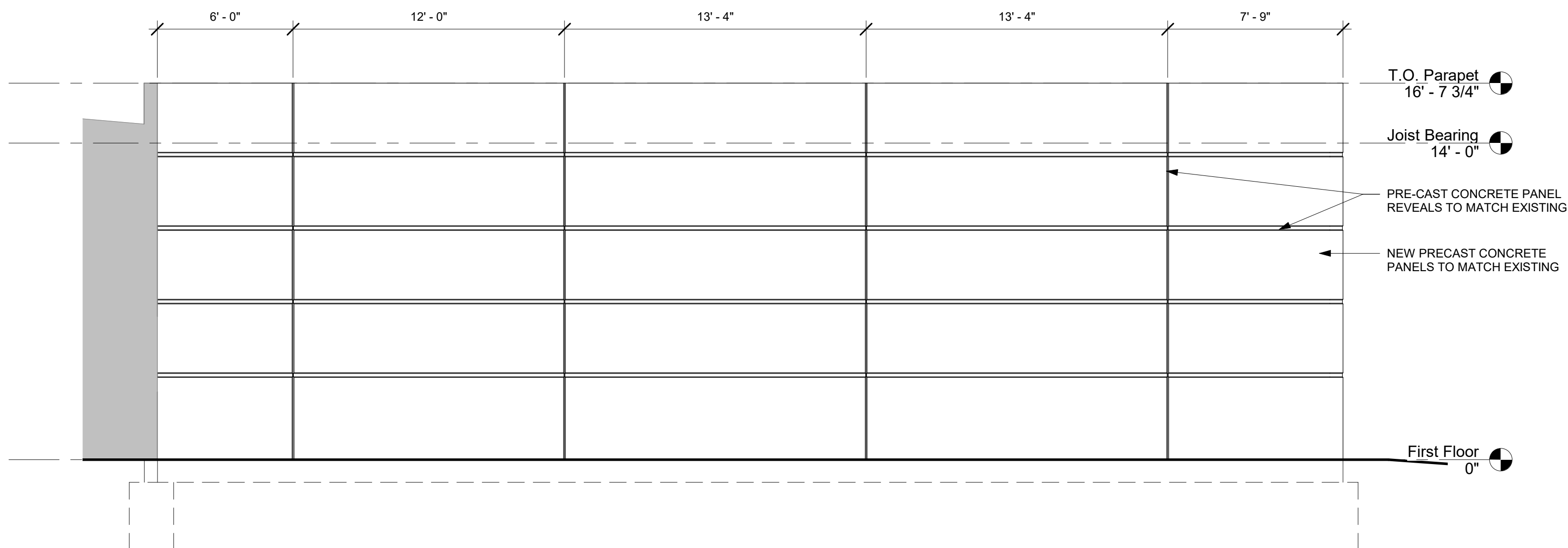




1 West Elevation  
A4.01 1/4" = 1'-0"



2 North Elevation  
A4.01 1/4" = 1'-0"



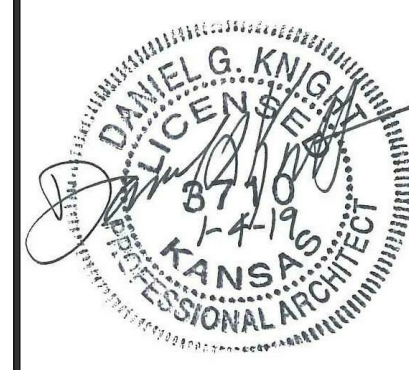
3 East Elevation  
A4.01 1/4" = 1'-0"



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JOB NO: 18-003

DATE: 03.22.2019

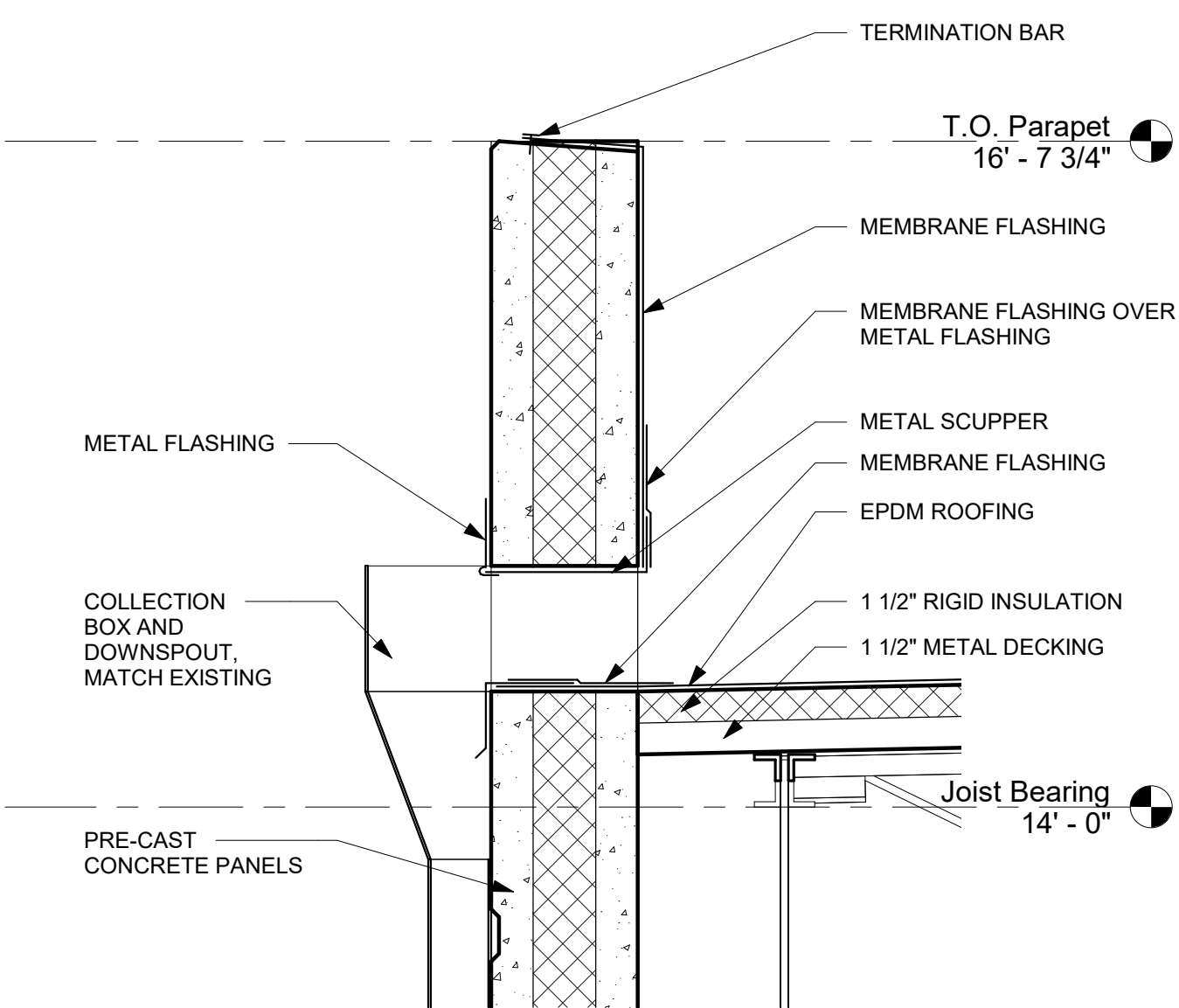
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Construction Documents

REVISIONS:

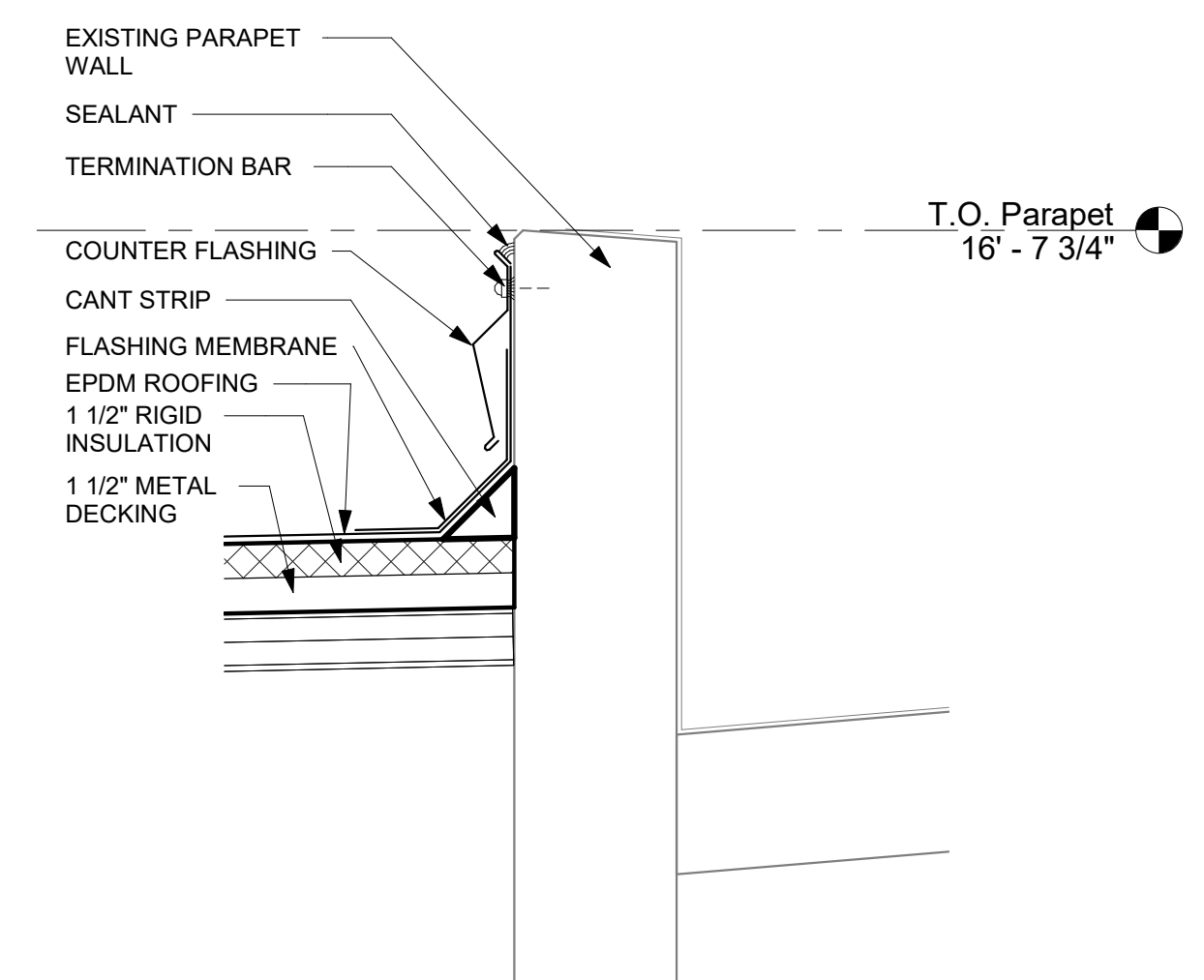

Exterior Elevations

A4.01

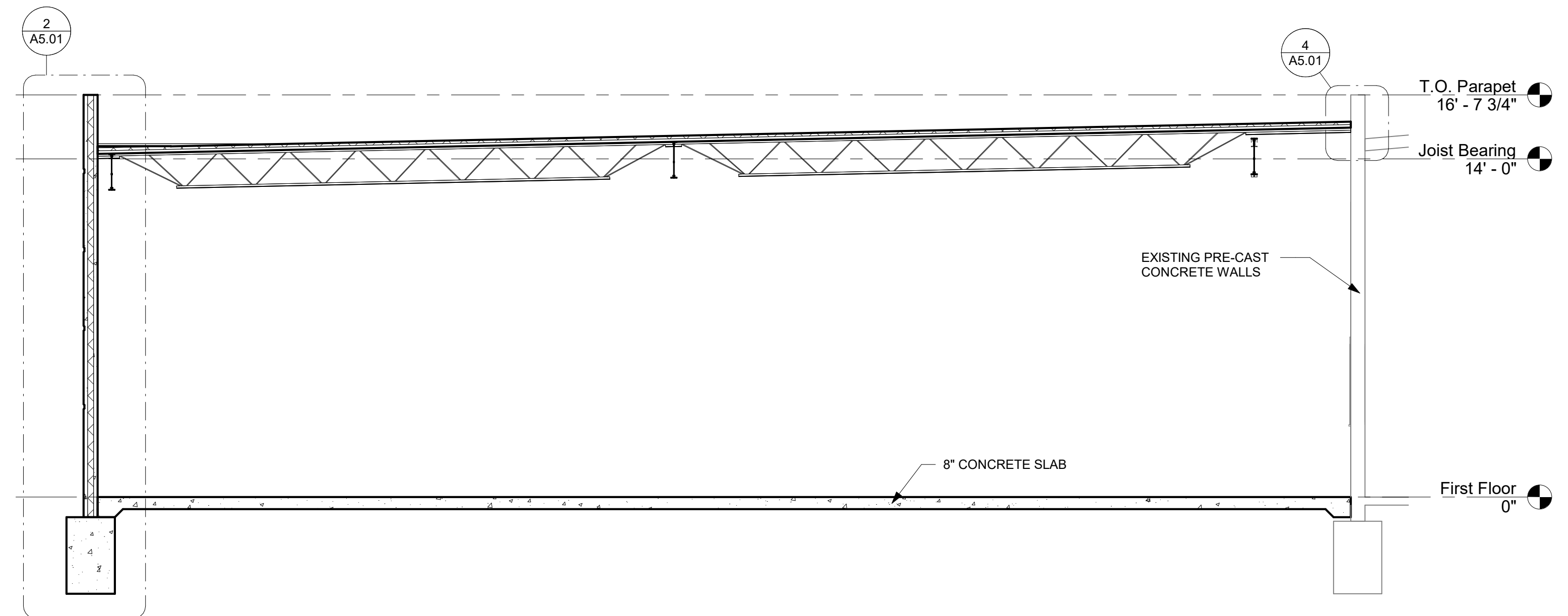




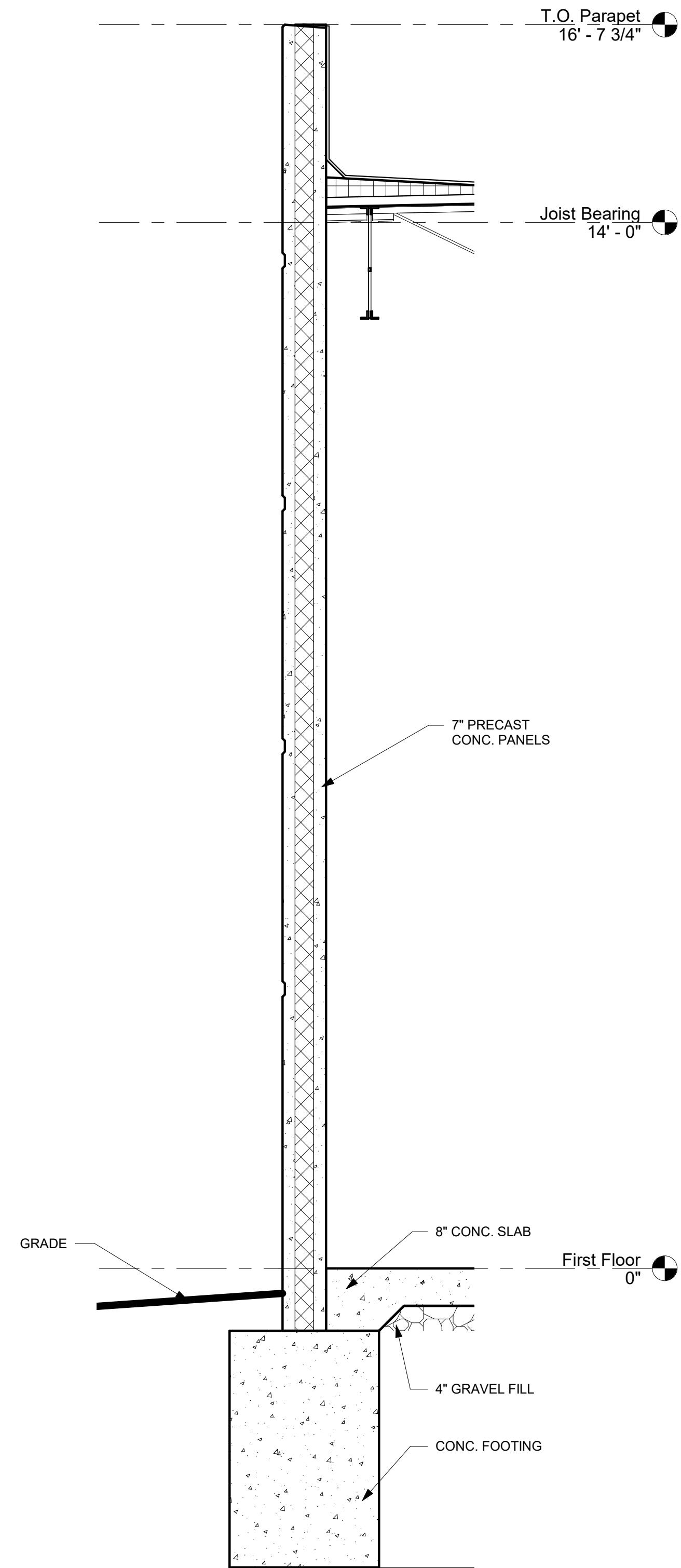
3 Scupper Detail  
A5.01 1 1/2" = 1'-0"



4 Existing Roof Detail  
A5.01 1 1/2" = 1'-0"



1 Building Section  
A5.01 1/4" = 1'-0"

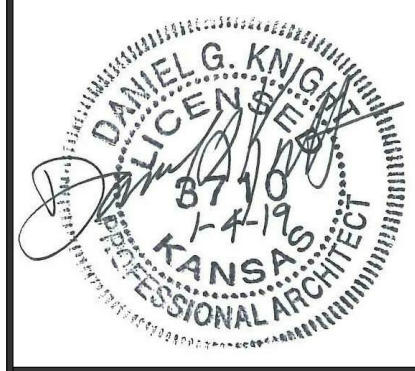


2 Wall Section  
A5.01 3/4" = 1'-0"



ANDERSON  
KNIGHT  
ARCHITECTS

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MANHATTAN, KANSAS 66502  
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Manko Window System, Inc.  
Warehouse Addition  
17500 East 22nd Avenue  
Aurora, Colorado 80011

JOB NO: 18-003  
DATE: 03.22.2019

ISSUE RECORD:  
Construction Documents

REVISIONS:

Building & Wall Sections

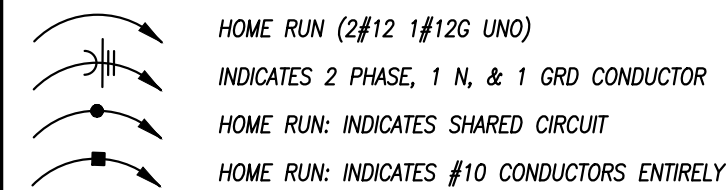
A5.01



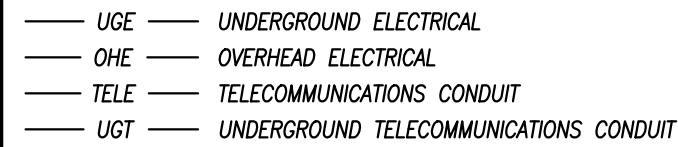
## ELECTRICAL SYMBOL LEGEND

SOME SYMBOLS AND ABBREVIATIONS ON THIS LEGEND MAY NOT BE USED

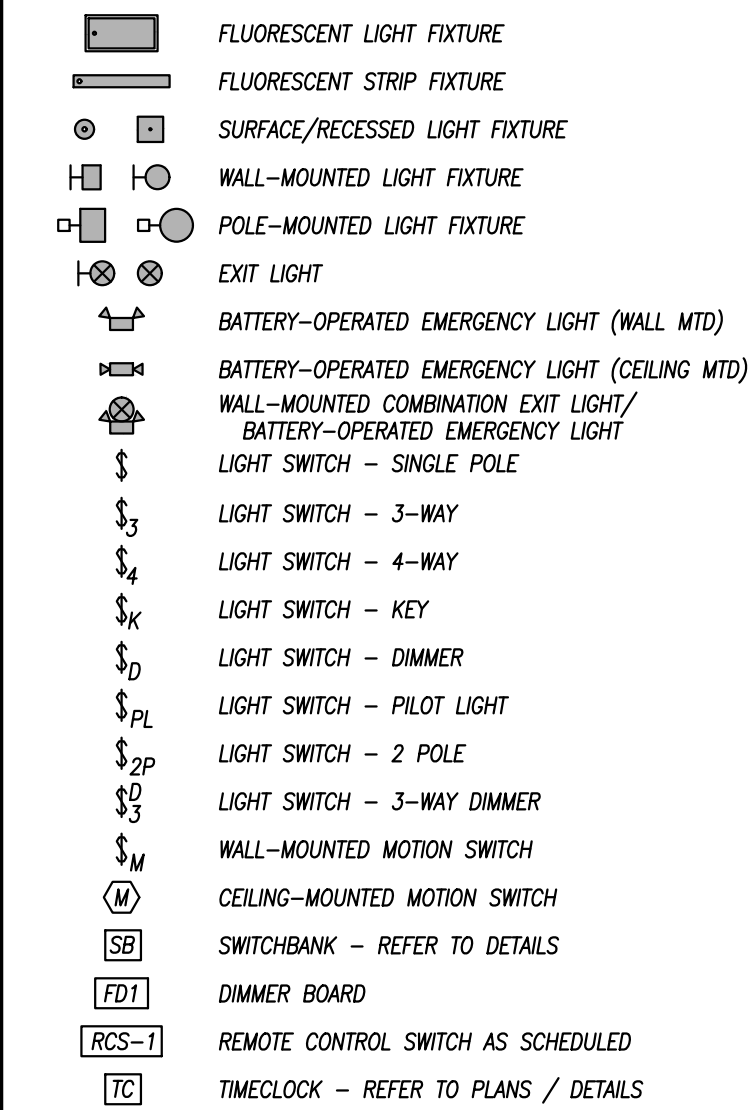
### CIRCUITING



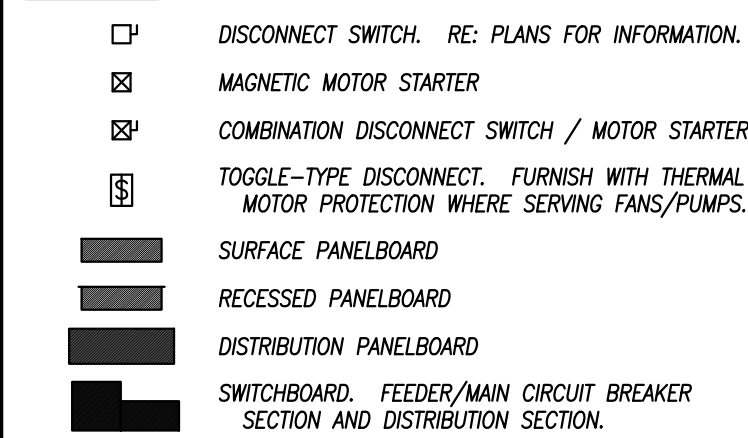
### UTILITIES



### LIGHTING



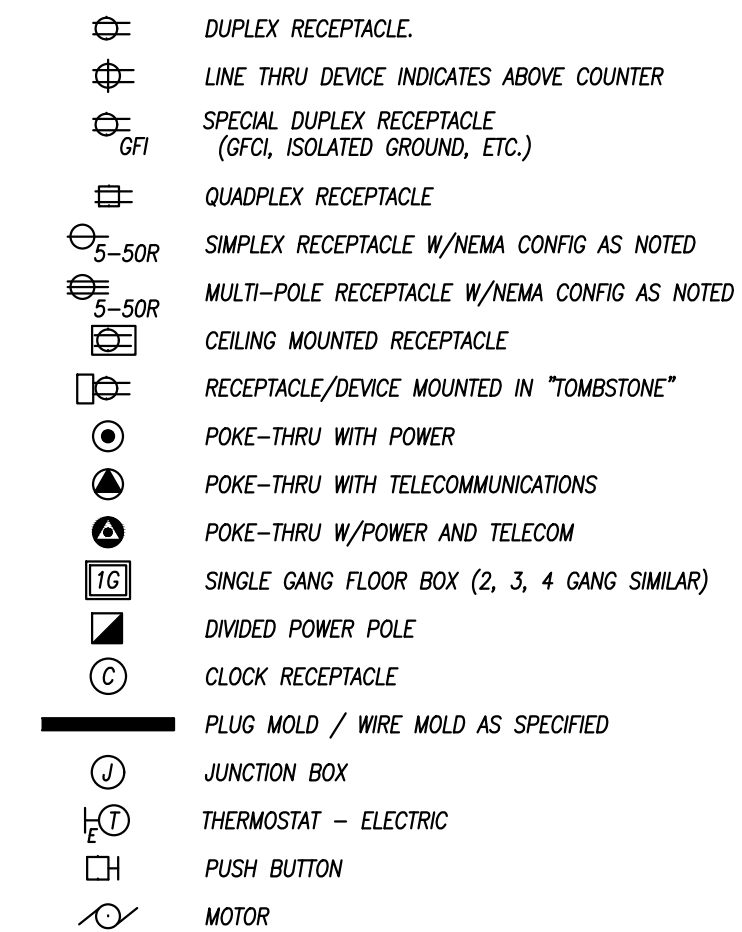
### EQUIPMENT



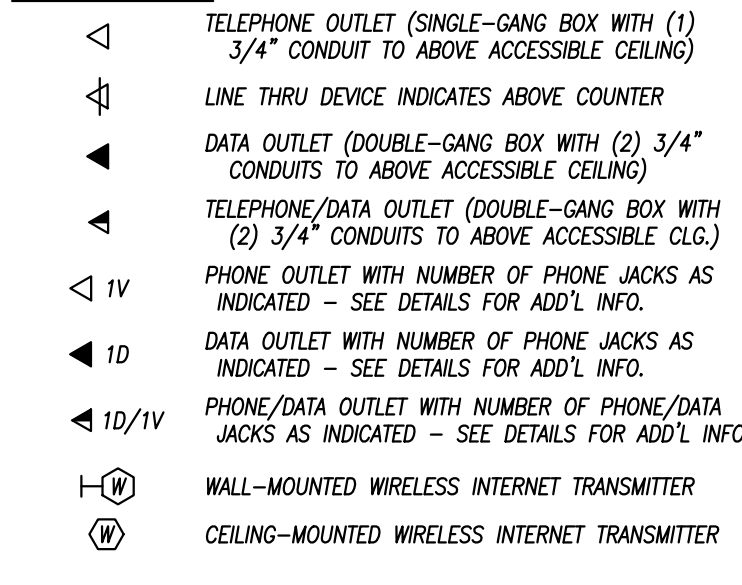
### GENERAL SYMBOLS



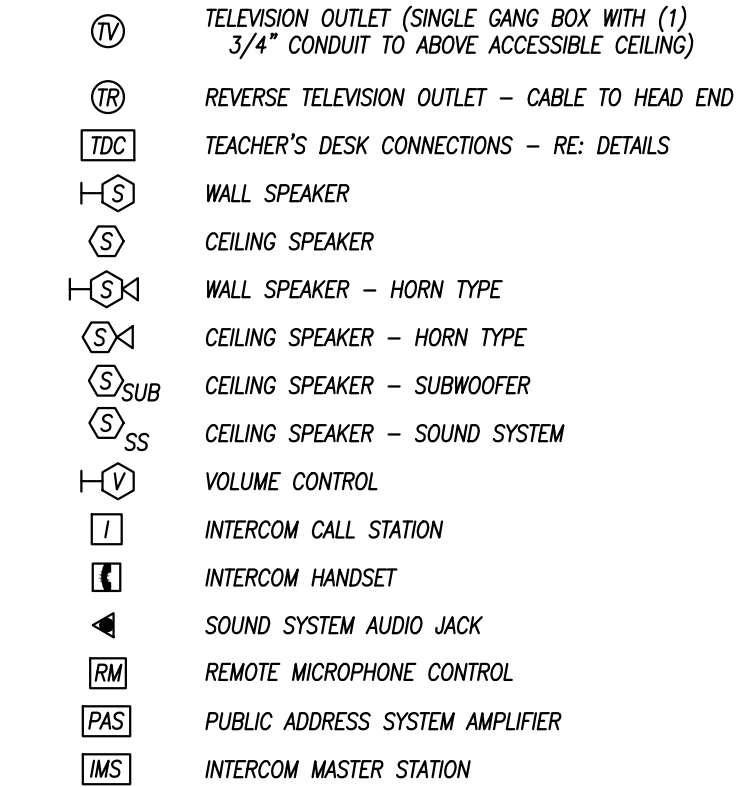
### POWER DEVICES



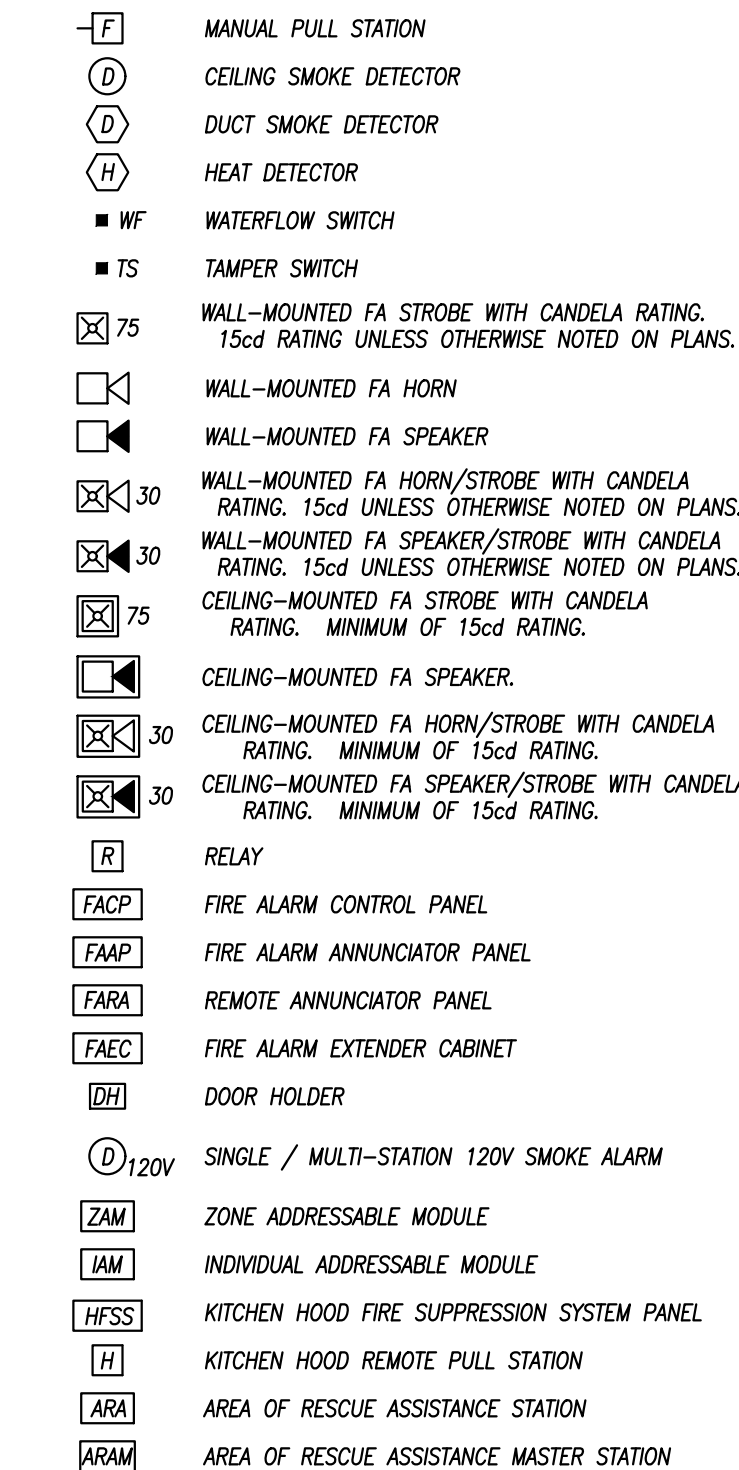
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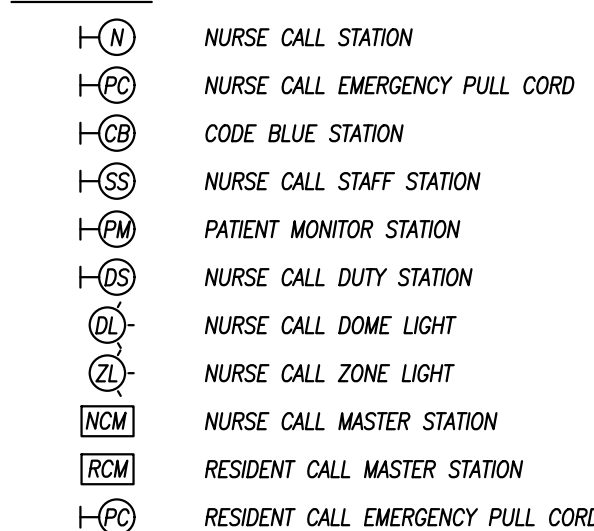
### AUDIOVISUAL



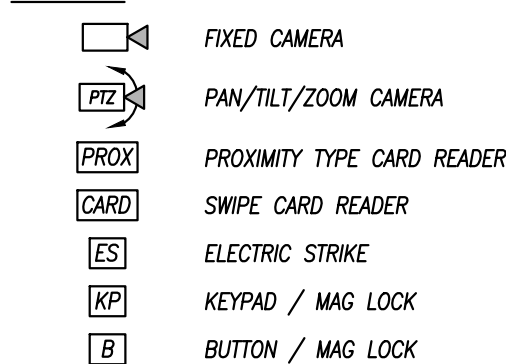
### FIRE ALARM



### NURSE CALL



### SECURITY



## ABBREVIATIONS

A/E	ARCHITECT / ENGINEER	ELEV	ELEVATION	MLO	MAIN LUGS ONLY
AF	ABOVE FINISHED FLOOR	EM	EMERGENCY FIXTURE/DEVICE	NFA	NET FREE AREA
AFG	ABOVE FINISHED GRADE	EW	ENTERING WATER TEMPERATURE	NL	NIGHT LIGHT
AG	ABOVE GRADE	EX	EXISTING ITEM	OA	OUTSIDE AIR
AHJ	AUTHORITY HAVING JURISDICTION	FFA	FROM FLOOR ABOVE	ORD	OVERFLOW ROOF DRAIN
AHU	AIR HANDLING UNIT	FFB	FROM FLOOR BELOW	P/C	PLUMBING CONTRACTOR
ARCH	ARCHITECT	FFCO	FINISHED FLOOR CLEAN OUT	PSI	POUNDS PER SQUARE INCH
BFP	BACKFLOW PREVENTER	FGO	FLASH GRADE CLEAN OUT	PVC	POLYVINYLCHLORIDE
BG	BELOW GRADE	FL	FLOW LINE	RA	RETURN AIR
BLDG	BUILDING	FLR	FLOOR	RE/REF	REFER / REFERENCE
BMS	BUILDING MANAGEMENT SYSTEM	FP	FIRE PROTECTION	RF	RELIEF FAN
C	CONDUIT	FPM	FEET PER MINUTE	RL	RELOCATED ITEM
CD	CANDELA	FWO	FLUSH WALL CLEAN OUT	RZ	REDUCED PRESSURE ZONE
CD	COLD DECK	G	GROUND / GANG	RR	RESTROOM
CLG	COILING	G/C	GENERAL CONTRACTOR	SA	SUPPLY AIR
CM	COORDINATE MOUNTING HEIGHT	GFCI	GROUND FAULT CIRCUIT INTERRUPTER	SPD	SURGE PROTECTIVE DEVICE
CO	CLEAN OUT	GPM	GALLONS PER MINUTE	ST	SHUNT TRIP
CTE	CONNECT TO EXISTING	HD	HOT DECK	TA	TRANSFER AIR
DCVA	DOUBLE CHECK VALVE ASSEMBLY	HTG	HEATING	TFA	TO FLOOR ABOVE
DCW	DOMESTIC COLD WATER	IG	ISOLATED GROUND	TFB	TO FLOOR BELOW
DDC	DIRECT DIGITAL CONTROLS	JB	JUNCTION BOX	TP	TAMPERPROOF
DF	DRINKING FOUNTAIN	LED	LIGHT EMITTING DIODE	TYP	TYPICAL
DHW	DOMESTIC HOT WATER	LWT	LEAVING WATER TEMPERATURE	UNO	UNLESS NOTED OTHERWISE
DHWR	DOMESTIC HOT WATER RETURN	M/C	MECHANICAL CONTRACTOR	VRF	VARIABLE REFRIGERANT FLOW
DN	DOWNS	MA	MIXED AIR	VTR	VENT THROUGH ROOF
E/C	ELECTRICAL CONTRACTOR	MAU	MAKE UP AIR UNIT	WCO	WALL CLEANOUT
EA	EXHAUST AIR	MCB	MAIN CIRCUIT BREAKER	WG	WIRE GUARD
EDF	ELECTRIC DRINKING FOUNTAIN	MECH	MECHANICAL	WP	WEATHERPROOF
		MH	MANHOLE		

## GENERAL ELECTRICAL NOTES

- COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST ADOPTED VERSION OF THE NATIONAL ELECTRICAL CODE, LOCAL AND STATE CODES, AND REQUIREMENTS OF THE A.H.J.
- COORDINATE LOCATIONS OF RECEPTACLES, SWITCHES, ETC. WITH ARCHITECTURAL CASEWORK AND ELEVATIONS.
- REFER TO MOUNTING HEIGHTS DETAIL FOR MOUNTING HEIGHTS OF ALL DEVICES NOT INDICATED OTHERWISE.
- PROVIDE ALL EMPTY CONDUITS WITH PULL STRINGS AND BUSHED ENDS.
- CONTRACTOR SHALL CONCEAL ALL CONDUIT, FITTINGS, AND DEVICES FROM VIEW WHERE REASONABLY POSSIBLE.

## 16000 - ELECTRICAL SPECIFICATIONS

### SECTION 16000 - ELECTRICAL REQUIREMENTS

#### GENERAL REQUIREMENTS

- ALL WORK SHALL BE IN ACCORDANCE W/ LATEST EDITION OF INTERNATIONAL BUILDING CODE, NATIONAL ELECTRICAL CODE, NFPA, CODES AS ADOPTED BY CITY, COUNTY, STATE & ALL OTHER APPLICABLE CODES.
- ALL MATERIALS & EQUIPMENT SHALL BE NEW & SHALL BEAR U.L. LABEL WHERE APPLICABLE. PROVIDE WATERPROOF EQUIPMENT ENCLOSURES WHERE REQUIRED.
- OWNER & PAY FOR ALL PERMITS REQUIRED FOR EXECUTION OF THIS WORK & SHALL MAKE ARRANGEMENTS FOR MODIFICATIONS TO ELECTRICAL CONNECTIONS TO BUILDING AS REQUIRED.
- CONTRACTOR SHALL PROVIDE ALL LABOR & MATERIALS REQUIRED TO HAVE COMPLETE FUNCTIONING ELECTRICAL LIGHTING & POWER SYSTEMS TOGETHER W/ ALL ASSOCIATED EQUIPMENT & APPARATUS AS SHOWN ON PLANS.
- WHERE AN ELECTRICAL DEVICE IS REQUIRED BY CODE BUT NOT SHOWN, IT SHALL BE PROVIDED AS THOUGH FULLY SHOWN & SPECIFIED.
- CONTRACTOR SHALL VISIT SITE & OBSERVE CONDITIONS UNDER WHICH WORK WILL BE DONE. ANY DISCREPANCIES SHALL BE CALLED TO ARCHITECT'S ATTENTION. NO SUBSEQUENT ALLOWANCE WILL BE MADE IN THIS CONNECTION FOR ANY ERROR OR NEGLIGENCE ON CONTRACTOR'S PART.
- FINAL ACCEPTANCE OF WORK SHALL BE SUBJECT TO CONDITION THAT ALL SYSTEMS, EQUIPMENT, APPARATUS & APPLIANCES OPERATE SATISFACTORILY AS DESIGNED & INTENDED. WORK SHALL INCLUDE REQUIRED ADJUSTMENT OF SYSTEMS & CONTROL EQUIPMENT INSTALLED UNDER THESE SPECIFICATIONS.
- WARRANT TO OWNER QUALITY OF MATERIALS, EQUIPMENT, WORKMANSHIP & OPERATION OF EQUIPMENT PROVIDED UNDER THESE SPECIFICATIONS FOR ONE YEAR FROM & AFTER COMPLETION OF BUILDING & ACCEPTANCE OF MECHANICAL SYSTEMS BY OWNER.
- ALL MATERIALS INSTALLED IN PLENUMS SHALL BE NONCOMBUSTIBLE OR HAVE FLAME/SMOKE INDEX OF NO MORE THAN 25/50 IN ACCORDANCE W/ ASTM E 84.

#### SECTION 16100 - CONDUIT & CONDUCTORS

- FOLLOW CIRCUITING SHOWN ON PLANS. USE NO CONDUIT SMALLER THAN 1/2" & NO CONDUCTORS SMALLER THAN #12 GA. UNLESS NOTED OTHERWISE.
- WIRE SHALL BE IN NON-FLEXIBLE METALLIC CONDUIT (EMT, IMC OR RMC) FOR ALL CIRCUITS AND FEEDERS GREATER THAN 30A, LIGHT SWITCH RISERS, KITCHEN CIRCUITS & HOME RUNS.
- MC CABLE ACCEPTABLE FOR BRANCH CONVENIENCE CIRCUITS AND LIGHTING CIRCUITS, DO NOT DAISY CHAIN LIGHT FIXTURES. PROVIDE HEALTH CARE RATED MC FOR MEDICAL TREATMENT AREAS WHEN NOT IN CONDUIT.
- CONDUIT INSTALLED BELOW GRADE SHALL BE SCHEDULE 80 PVC HEAVY WALL PLASTIC CONDUIT MEETING NEMA STANDARDS & UL LISTED FOR UNDERGROUND & EXPOSED USE. PROVIDE GRS RADIUS BENDS & RISERS AS CONDUITS RISE ABOVE GRADE OR ABOVE FLOOR SLAB.
- LIGHTING & RECEPTACLE CIRCUIT CONDUCTORS SHALL BE COPPER THHN/THWN 600 VOLT, 75 DEG C, COLOR CODED AS DESCRIBED UNDER APPLICABLE CODES. NO ROMEX, PLASTIC FLEX TUBING ETC PERMITTED. LIGHT FIXTURE WIRE INSULATION SHALL HAVE TEMP RATING NOT LESS THAN INDIVIDUAL FIXTURE MANUF. RECOMMENDED RATING.
- CIRCUITS W/ NO. 8 OR LARGER CONDUCTORS, MOTOR CIRCUITS, POWER & FEEDER CIRCUITS & BUILDING SERVICE FEEDERS SHALL BE COPPER THHN/THWN 600 VOLT, 75 DEG C.
- ALL CONDUIT, JUNCTION BOXES, ETC. ABOVE CEILINGS SHALL BE SUPPORTED FROM STRUCTURE. PIPE SLEEVES, HANGERS & SUPPORTS SHALL BE FURNISHED & SET & CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER & PERMANENT LOCATIONS.

#### SECTION 16200 - GROUNDING

- SUPPLEMENT GROUNDING OF SECONDARY DISTRIBUTION SYSTEM W/ EQUIPMENT GROUNDING SYSTEM, INSTALLED SO THAT METALLIC STRUCTURES, ENCLOSURES, RACEWAYS, JUNCTION BOXES, OUTLET BOXES, CABINETS, MACHINE FRAMES, PORTABLE EQUIPMENT & OTHER CONDUCTIVE ITEMS OPERATE CONTINUOUSLY AT GROUND POTENTIAL & PROVIDE LOW IMPEDANCE PATH FOR GROUND FAULT CURRENTS.
- SYSTEM SHALL COMPLY W/ NATIONAL ELECTRICAL CODE, DRAWINGS & AS SPECIFIED.
- PROVIDE EQUIPMENT GROUND BUS IN BASE OF LOW VOLTAGE SWITCHGEAR BRAZED OR OTHERWISE ADEQUATELY CONNECTED BY AN APPROVED METHOD TO GROUND RODS.
- PROVIDE IN CONDUIT GREEN INSULATED COPPER GROUND CONDUCTOR TO MAIN METALLIC WATER SERVICE ENTRANCE & CONNECT BY MEANS OF ADEQUATE GROUND CLAMPS.
- EQUIPMENT GROUNDING CONDUCTORS FOR BRANCH CIRCUIT HOME RUNS SHOWN ON DRAWINGS SHALL INDICATE AN INDIVIDUAL & SEPARATE GROUND CONDUCTOR FOR THAT BRANCH CIRCUIT WHICH SHALL BE TERMINATED AT BRANCH CIRCUIT PANELBOARD, SWITCHBOARD, OR OTHER DISTRIBUTION EQUIPMENT.
- PROVIDE LOW VOLTAGE DISTRIBUTION SYSTEM W/ SEPARATE GREEN INSULATED EQUIPMENT GROUNDING CONDUCTOR FOR EACH SINGLE OR THREE-PHASE FEEDER. SINGLE PHASE 120 VOLT BRANCH CIRCUITS FOR LIGHTING & POWER SHALL CONSIST OF PHASE & NEUTRAL CONDUCTORS & GREEN GROUND CONDUCTOR INSTALLED IN COMMON CONDUIT WHICH SHALL SERVE AS GROUNDING CONDUCTOR.
- GROUNDING CONDUCTORS SHALL BE AS SHOWN ON PLANS OR IF NOT SPECIFICALLY SHOWN SHALL BE NO SMALLER THAN THAT REQUIRED BY NEC.

#### SECTION 16300 - ELECTRICAL EQUIPMENT

- JUNCTION BOXES & OUTLET BOXES SHALL BE GALVANIZED KNOCKOUT TYPE. LIGHTING FIXTURE BOXES IN CEILINGS SHALL NOT BE LESS THAN 4" OCTAGONAL KNOCKOUT TYPE. OUTLETS SHALL BE INSTALLED IN LOCATIONS SHOWN ON DRAWINGS EXCEPT OUTLETS MAY BE MOVED 4 FEET IN EITHER DIRECTION IF SO DIRECTED, WITHOUT ADDITIONAL COST. BOXES SHALL BE FLUSH MOUNTED ON WALLS FOR CONCEALED WORK. GANGABLE BOXES SHALL BE USED IN ALL GYPBOARD SURFACES.

#### SECTION 16350 - ELECTRICAL IDENTIFICATION

- MANUFACTURED LABELS FOR EACH PANELBOARD & TRANSFORMER, TYPEWRITTEN PANEL SCHEDULES MOUNTED IN PANELS.
- PRINTED TAPE STYLE LABEL FOR EACH RECEPTACLE INDICATING PANEL & CIRCUIT #.
- MANUFACTURED LABELS FOR ALL DISCONNECT SWITCHES INDICATING EQUIPMENT SERVED.
- BRANCH CIRCUITS - IDENTIFY EACH CIRCUIT W/ WIRE MARKERS WHEN ENCLOSURE LABEL AND WIRE COLORS DO NOT PROVIDE ENOUGH INFORMATION TO IDENTIFY EACH CIRCUIT WITHOUT TRACING. FEEDERS & BRANCH CIRCUIT HOME RUNS W/ WIRE MARKER W/ PANEL & CKT #. BOX COVERS ABOVE LAT-IN CEILINGS HEATLY MARKED W/ INDELIBLE MARKER.

#### SECTION 16400 - WIRING DEVICES

- CONVENIENCE OUTLETS - SPEC GRADE 20 AMP DUPLEX W/ GROUND & SS WALL PLATES. OTHER OUTLETS SHALL BE VERIFIED W/ EQUIPMENT SUPPLIERS FOR PROPER NEMA CONFIGURATIONS. PROVIDE GFCI RATED DEVICES WHERE INDICATED AND AS REQ'D PER CODE.
- LIGHT SWITCHES - SPEC GRADE 20 AMP TOGGLE SWITCHES W/ SS WALL PLATES.
- WALL MOTION SWITCHES - SPEC GRADE, PIR, OVERRIDE.
- CEILING MOTION SWITCHES - SPEC GRADE, DUAL TECHNOLOGY, MODEL AS REQ'D BY ROOM CONFIGURATION, ALL NECESSARY POWER PACKS AND RELAYS.
- WALL MOTION SWITCHES (BATHROOM) - DUAL RELAY, SPEC GRADE, PIR, 2ND RELAY FOR OPERATION OF EXHAUST FAN DELAY.
- LIST OF DEVICES AS DIRECTED BY ARCHITECT.
- EQUIVALENT DEVICES BY LEVITON, BRYANT, HUBBELL, WATTSOPPER, LITHONIA, SENSOR SWITCH.

#### EXECUTION

- ALL OUTLETS, SHALL BE MOUNTED W/ BOTTOM AT 18" AFF & SWITCHES W/ BOTTOM AT 44" ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE ON PLANS. REFER TO ARCH FOR OTHER REQUIRED ELEVATIONS AND CABINETRY COORDINATION.

#### SECTION 16500 - LUMINAIRES, LAMPS & BALLASTS

##### LUMINAIRES

- PROVIDE LIGHTING FIXTURES W/ LAMPS & ACCESSORIES REQ'D FOR HANGING, COORD MOUNTING OF LIGHTING FIXTURES W/ ARCHITECT & G/C. ADDITIONAL FIXTURE SUPPORTS SHALL BE PROVIDED BY E/C. SUPPORTS SHALL COMPLY W/ LATEST EDITION OF NEC. PROVIDE LIGHTING FIXTURE SECURING CLIPS AS REQUIRED. CONSULT ARCH PLANS FOR CEILING TYPES & PROVIDE SURFACE & RECESSED LIGHTING FIXTURES W/ APPROPRIATE MOUNTING COMPONENTS & ACCESSORIES.
- REFER TO LIGHTING FIXTURE SCHEDULE PLANS FOR FIXTURE TYPES.
- EQUIVALENT LUMINAIRES BY HUBBELL, INFINITY, LITHONIA, WILLIAMS, COLUMBIA, EXTRONICS, LITELARM, EXIDE.

##### LAMPS

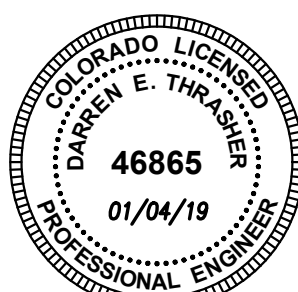
- LAMPS SHALL BE TYPE RECOMMENDED BY FIXTURE MANUF. LAMP NONE ABOVE MANUF. RECOMMENDED MAX. WATTAGE.



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JOB NO: 18-003  
DATE: 01.04.2019

ISSUE RECORD:  
For Permit

#### REVISIONS:


POWER PLAN

E1.01



PEARSON KENT MCKINLEY RAAF ENGINEERS LLC  
2505 ANDERSON AVE, #202 MANHATTAN, KS 66502  
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18.597

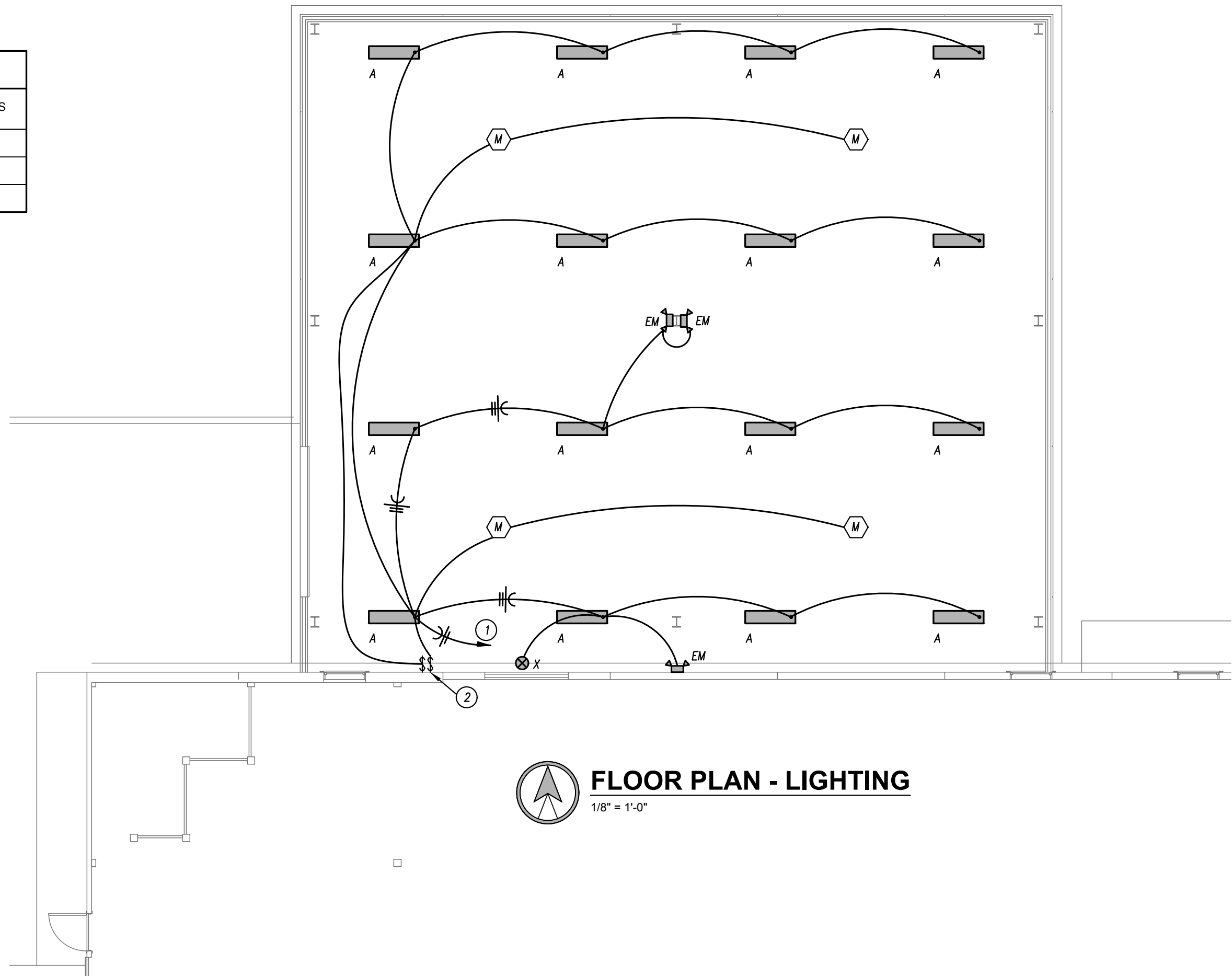


LIGHT FIXTURE SCHEDULE

PLAN MARK	MANUFACTURER	MODEL NUMBER	MOUNTING	FINISH	LAMP CODE	LAMP QUANTITY	NOTES
A	WILLIAMS	GL-4-L150/840-HOOK/CABLE-WG11-DRV-UNV	HOOK/CABLE	WHITE	LED, 121W, 40K	--	1
EM	MULE LIGHTING	MRD-H012	SURFACE	WHITE	LED	2	1,2
X	SURE LITES	APX7R	SURFACE WALL/CEILING	WHITE	LED		2

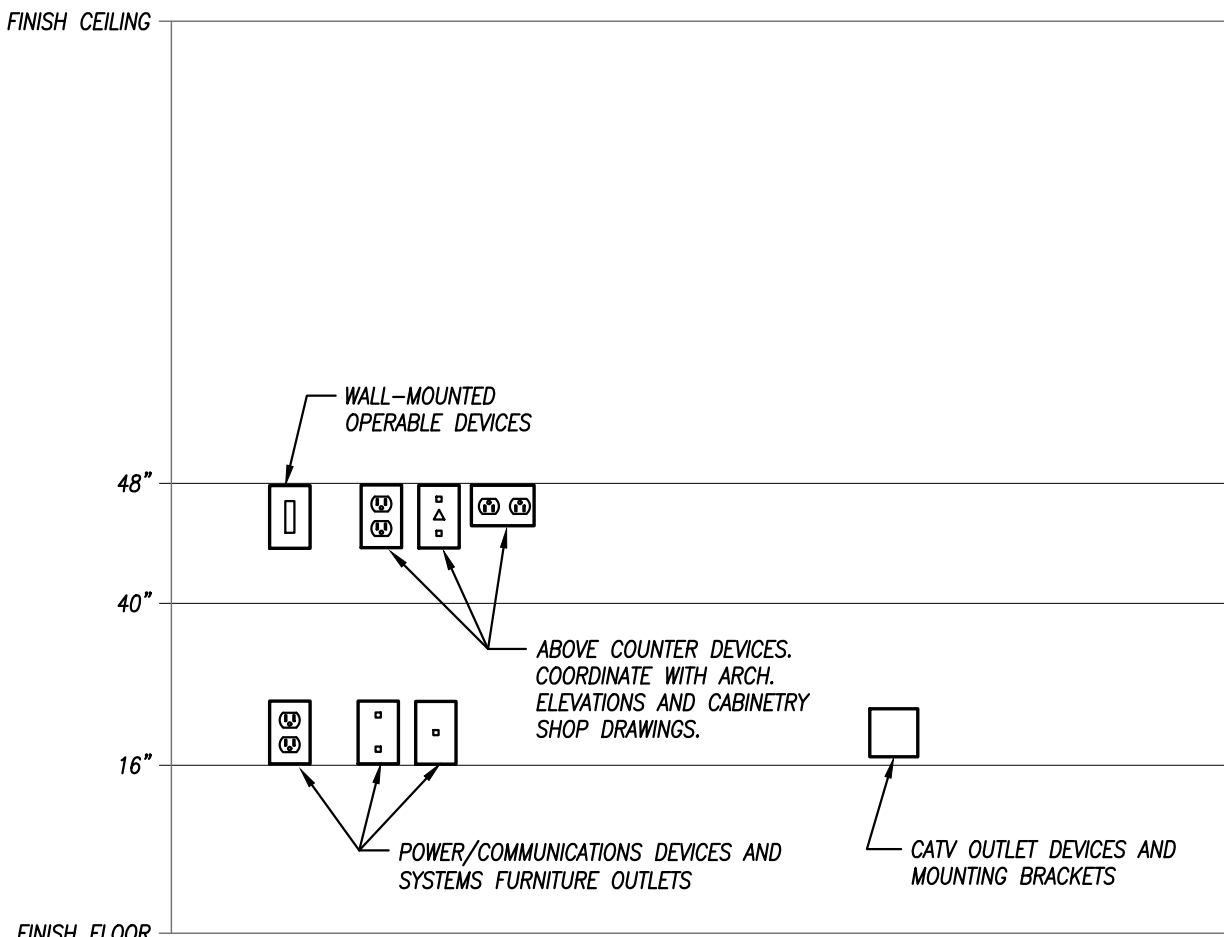
NOTES LEGEND

- 1 - PROVIDE ELECTRONIC DRIVER  
2 - PROVIDE EMERGENCY BATTERY (MINIMUM OF 1350 LUMENS FROM ONE LAMP FOR 90 MINUTES FOR FLUORESCENT 32WT8 LIGHTS)



FLOOR PLAN - LIGHTING

1/8" = 1'-0"



GENERAL NOTES:

1. MOUNTING HEIGHTS SHOWN IN THIS DETAIL ARE TYPICAL UNLESS OTHERWISE NOTED ON THE PLANS.  
2. SEE ARCHITECTURAL ELEVATIONS FOR SPECIAL CONDITIONS. NOTIFY ARCHITECT IMMEDIATELY OF ANY CONFLICTS.  
3. ALL INSTALLATIONS SHALL COMPLY WITH ADA.

POWER/COMMUNICATION DEVICES:

OUTLETS SHALL BE LOCATED AT 16" A.F.F. TO THE BOTTOM OF THE BOX. ABOVE COUNTER DEVICES SHALL BE LOCATED AT 2" ABOVE THE BACKPLASH OF THE COUNTER TO THE BOTTOM OF THE DEVICES. VERIFY WITH ARCHITECTURAL DETAILS.

WALL-MOUNTED OPERABLE DEVICES:

OPERABLE DEVICES SHALL BE LOCATED AT 48" A.F.F. TO THE TOP OF THE OPERABLE PORTION OF THE DEVICE.

WALL-MOUNTED OPERABLE DEVICES INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING:

LIGHT SWITCHES, DIMMERS, CONTROLS, ETC.  
PUSH BUTTONS  
NURSE/PATIENT CALL DEVICES (INCLUDING THOSE FOR STAFF USE)  
OTHER CONTROL OR "CALL" DEVICES

MOUNTING HEIGHTS FOR WALL-MOUNTED DEVICES

NOT TO SCALE

GENERAL LIGHTING NOTES

1. REFER TO GENERAL NOTES ON MEP COVER SHEET FOR ADDITIONAL REQUIREMENTS OF WORK.  
2. ALL CIRCUITING SHOWN ON THIS PLAN IS DIAGRAMMATIC.  
2.1. ALL FIXTURES SHALL BE FED FROM JUNCTION BOXES WITH LIGHT FIXTURE WHIPS (<6'). DAISY-CHAINING OF FIXTURES IS NOT ALLOWED.  
2.2. SWITCH BOX LOCATIONS SHALL BE WIRED SO THAT A NEUTRAL WIRE IS AVAILABLE AT THE SWITCH BOX LOCATION, EITHER IN THE BOX OR AVAILABLE TO BE ADDED VIA RACEWAY OR AN ACCESSIBLE WALL CAVITY.  
2.3. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

LIGHTING PLAN KEYED NOTES

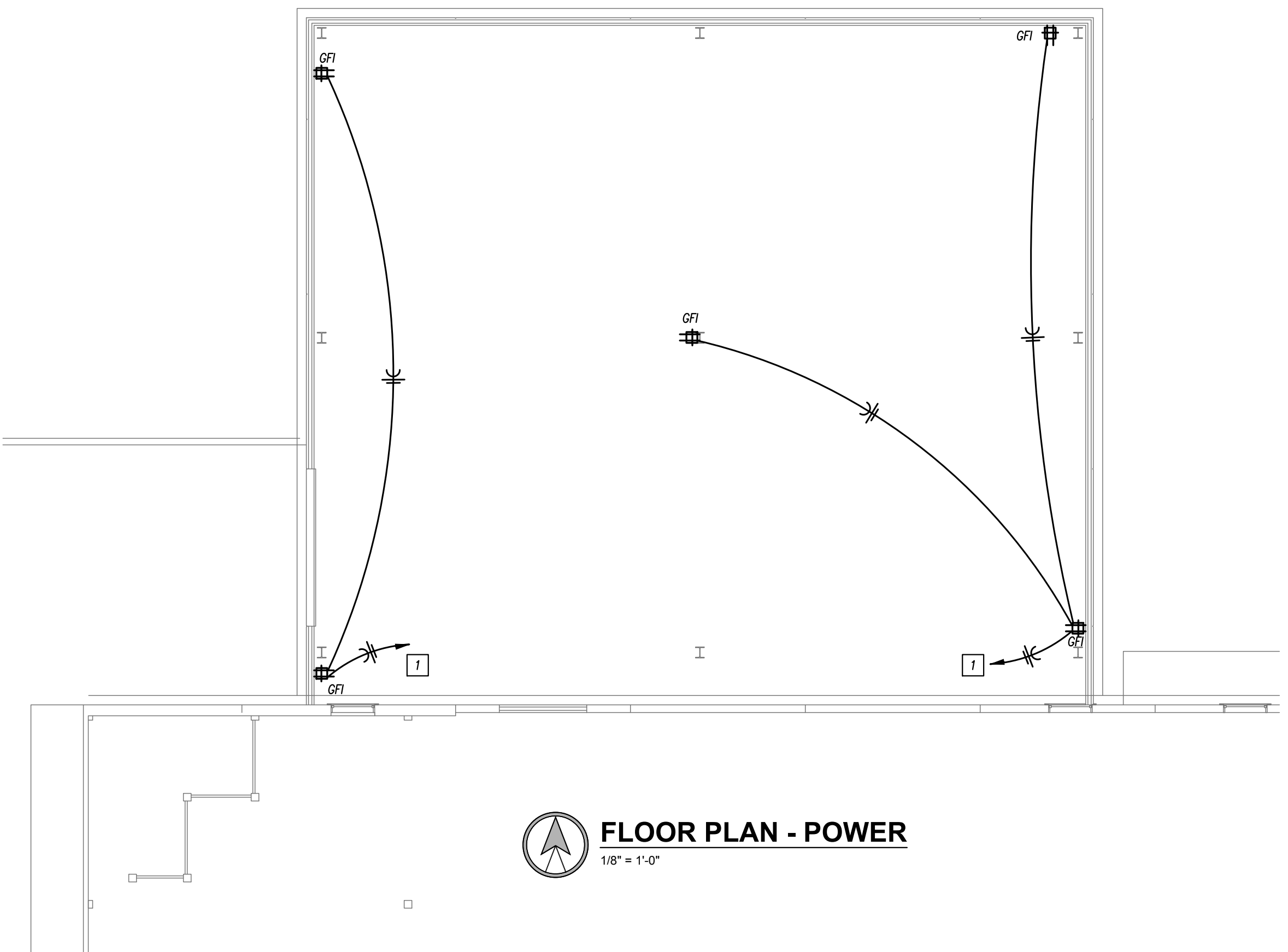
- ① CIRCUIT TO NEAREST 277V PANEL AND PROVIDE 20A CIRCUIT BREAKER  
② OVERRIDE SWITCH FOR MOTION SENSORS

GENERAL POWER NOTES

1. REFER TO GENERAL NOTES ON MEP COVER SHEET FOR ADDITIONAL REQUIREMENTS OF WORK.

POWER PLAN KEYED NOTES

- ① CIRCUIT TO NEAREST 120V PANEL AND PROVIDE 20A CIRCUIT BREAKER



FLOOR PLAN - POWER

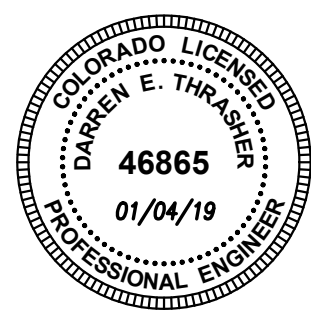
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LIGHTING PLAN

E1.02



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