UTAH NATIONAL GUARD

WEST JORDAN READINESS CENTER
UNHEATED STORAGE BUILDING

DFCM PROJECT NO. 06015480

ARCHITECT'S PROJECT NUMBER: B06-007

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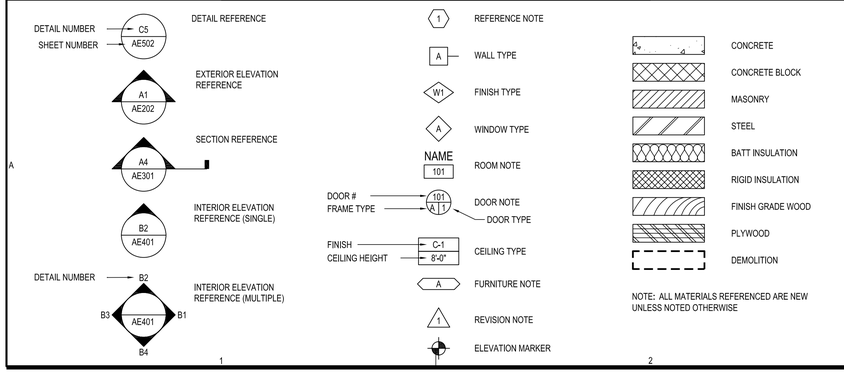
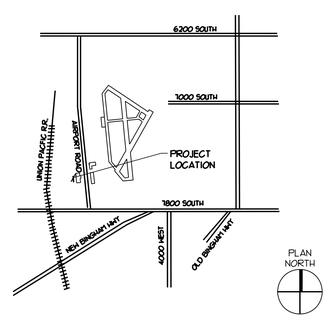
SYMBOLS LEGEND



NOTE: ALL MATERIALS REFERENCED ARE NEW UNLESS NOTED OTHERWISE

VICINITY MAP



CLIENT APPROVAL

THE UNDERSIGNED HAS REVIEWED THESE PLANS AND SPECIFICATIONS AND FINDS THEM ACCEPTABLE. CHANGES IN THE PORTION OF THE PLANS HEREIN APROVED MAY RESULT IN A CHANGE IN THE COST OF THE PROJECT.

CONSTRUCTION DOCUMENTS
PHASE

31/05/2006
DATE

DFCM DATE

UTAH NATIONAL GUARD DATE

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UTNG WJRC
UNHEATED STORAGE BLDG
DFCM NO 06015480
7602 SOUTH AIRPORT ROAD
WEST JORDAN, UTAH

UTAH NATIONAL GUARD
12953 SOUTH MINUTEMAN DRIVE
WEST JORDAN, UTAH 84020-1776

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CD	07/27/07	UTNG REVIEW SET
DD	-	-

PROJECT NO: B06-007
CAD DWG FILE: gi001.dwg
DRAWN BY: SJF
CHECKED BY: DWT

COVER SHEET & SHEET INDEX

GI001

SHEET # OF #

STRUCTURAL NOTES

GENERAL

1. ALL DESIGN, CONSTRUCTION, AND INSPECTION SHALL BE IN CONFORMANCE WITH THE 2006 INTERNATIONAL BUILDING CODE.
2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT THE SITE.
3. ALL OMISSIONS OR CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND/OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND/OR STRUCTURAL ENGINEER BEFORE PROCEEDING WITH ANY WORK INVOLVED.
4. DRAWINGS INDICATE THE FINISHED PRODUCT. THEY DO NOT INDICATE A METHOD OF CONSTRUCTION. CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH PRECAUTIONS SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, SHORING FOR CONSTRUCTION EQUIPMENT, ETC.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPENSATING THE OWNER FOR ANY CHANGES MADE AS A RESULT OF A DEVIATION FROM THE CONTRACT DOCUMENTS, DEVIATION FROM THE SPECIFICATIONS, FAULTY MATERIALS, OR FAULTY WORKMANSHIP.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR SAFETY AND PROTECTION WITHIN AND ADJACENT TO THE JOB SITE.
7. TEMPORARY SHORING AND BRACING SHALL BE PROVIDED WHEREVER NECESSARY TO TAKE CARE OF ALL LOADS TO WHICH THE STRUCTURE MAY BE SUBJECTED INCLUDING WIND. SUCH BRACING SHALL BE LEFT IN PLACE AS LONG AS MAY BE REQUIRED FOR SAFETY OR UNTIL ALL THE STRUCTURAL ELEMENTS ARE COMPLETE.
8. DURING AND AFTER CONSTRUCTION THE CONTRACTOR AND/OR OWNER SHALL KEEP LOADS ON THE STRUCTURE WITHIN THE LIMITS OF THE DESIGN LOADS.
9. THE GENERAL CONTRACTOR SHALL HAVE SHOP DRAWINGS REVIEWED BY THE ARCHITECT PRIOR TO THE FABRICATION OR ERECTION FOR THE FOLLOWING ITEMS: REINFORCING STEEL AND STRUCTURAL STEEL.
10. ALL DETAILS, SECTIONS, AND NOTES ARE INTENDED TO BE TYPICAL AND SHALL APPLY TO SIMILAR SITUATIONS UNLESS NOTED OR SHOWN OTHERWISE.
11. REFER TO THE SPECIFICATIONS FOR ADDITIONAL INFORMATION NOT COVERED ON THE DRAWINGS.
12. OBSERVATION VISITS TO THE JOB SITE BY FIELD REPRESENTATIVES OF CALDER RICHARDS CONSULTING ENGINEERS SHALL NEITHER BE CONSTRUED AS INSPECTION NOR APPROVAL OF CONSTRUCTION.
13. SIZES, LOCATIONS, AND ANCHORAGES OF EQUIPMENT SHALL BE VERIFIED IN THE FIELD WITH EQUIPMENT MANUFACTURERS (SUPPLIERS) PRIOR TO PLACING CONCRETE OR FABRICATING STEEL.

SITE PREPARATION NOTES

1. ALL SURFACE VEGETATION, TOPSOIL, DEGRADABLE ORGANIC, PAST BUILDING DEBRIS, ANY OTHER DELETERIOUS MATERIALS, AND NON-COMPACTED FILL SHALL BE REMOVED FROM WITHIN THE BUILDING PAD AREA. THE STRIPPED SOILS ARE UNSUITABLE AS COMPACTED STRUCTURAL FILL.
2. THE SUBGRADE SHALL BE PROOF ROLLED. ALL SOFT SPOTS SHALL BE REMOVED AND REPLACED WITH COMPACTED STRUCTURAL FILL.
3. FOOTINGS SHALL BEAR UPON FIRM UNDISTURBED NATURAL SOILS AND/OR UPON STRUCTURAL FILL EXTENDING TO FIRM UNDISTURBED NATURAL SOILS.
4. THE OWNER'S GEOTECHNICAL ENGINEER SHALL OBSERVE THE NATURAL SOILS AT THE TIME OF FOOTING EXCAVATION TO DETERMINE THE SUITABLITIY OF THE NATURAL SOILS FOR SUPPORTING THE FOUNDATIONS OF THIS BUILDING.
5. WHERE REQUIRED, THE WIDTH OF STRUCTURAL FILL BELOW FOOTINGS SHALL BE EQUAL TO THE WIDTH OF THE FOOTINGS PLUS ONE FOOT FOR EACH FOOT OF FILL THICKNESS
6. STRUCTURAL FILL SHALL CONSIST OF WELL GRADED, GRANULAR SOILS WITH A MAXIMUM PARTICLE SIZE OF 3 INCHES, LESS 35% PASSING THE NO. 200 SIEVE. STRUCTURAL FILL SOILS SHALL BE NON-EXPANSIVE AND HAVE A LIQUID LIMIT LESS THAN 35 AND A PLASICITY INDEX BELOW 15.
7. ALL STRUCTURAL FILL, WHERE REQUIRED, SHALL EXTEND TO SUITABLE NATURAL SOILS. STRUCTURAL FILL SHALL BE PLACED IN MAXIMUM 8 INCH LOOSE LIFTS AND COMPACTED TO AT LEAST 95% OF MAXIMUM DENSITY AS DETERMINED BY ASTM D-1557 AND SHALL BE COMPACTED AT A MOISTURE CONTENT WITHIN 2% OF THE OPTIMUM MOISTURE CONTENT.
8. SUBGRADE WALL AND FOOTING BACKFILL SHALL BE STRUCTURAL FILL COMPACTED TO 90% OF MAXIMUM DENSTIY AS DETERMINED BY ASTM D-1557.
9. SLABS ON GRADE SHALL BE UNDERLAIN BY A MINIMUM OF 4" OF FREE-DRAINING GRANULAR MATERIAL. GRANULAR MATERIAL SHALL BE PLACED UPON PROPERLY PREPARED SUBGRADE AS DESCRIBED ABOVE.
10. SITE PREPARATION, PLACEMENT AND COMPACTION OF STRUCTURAL FILL SHALL BE OBSERVED AND TESTED BY OWNER'S TESTING LABORATORY TO INSURE THAT THE ABOVE REQUIREMENTS ARE ACHIEVED.

A1 STRUCTURAL NOTES
SCALE: NONE

CONCRETE

1. CONCRETE SHALL ATTAIN THE FOLLOWING MINIMUM COMPRESSIVE STRENGTHS AT 28 DAYS:
   FOOTINGS & FOUNDATION WALLS..... 3000 PSI
   INTERIOR SLABS ON GRADE ..... 4000 PSI
   EXTERIOR FLAT WORK..... 4000 PSI
2. A STATEMENT OF MIX DESIGN FOR ALL CONCRETE SHALL BE SUBMITTED TO AND REVIEWED BY THE STRUCTURAL ENGINEER PRIOR TO COMMENCING WORK.
3. ALL CONCRETE WORK SHALL BE PLACED, CURED, STRIPPED, AND PROTECTED AS DIRECTED BY THE SPECIFICATIONS AND ACI STANDARDS AND PRACTICES.
4. UNLESS NOTED OTHERWISE ON THE DRAWINGS, REINFORCE CONCRETE WALLS AS FOLLOWS:

WIDTH	HORIZ REINF	VERT REINF
8" WALL	#5 @ 18"	#4 @ 18" CENTER OF WALL
10" WALL	#5 @ 15"	#4 @ 14" CENTER OF WALL
12" WALL	#4 @ 12", EACH FACE	#4 @ 12", EACH FACE

5. DOWEL VERTICAL BARS 36 DIAMETERS INTO STRUCTURE ABOVE AND FOOTINGS BELOW. PROVIDE 90 DEGREE HOOK WHERE 36 DIAMETER IS NOT POSSIBLE. IN ADDITION, PROVIDE (2) #5 CONTINUOUS BARS TOP AND BOTTOM OF 6" AND 8" WALLS AND (2) #6 BARS TOP AND BOTTOM OF WALLS 10" OR THICKER.
6. BEFORE CONCRETE IS POURED CHECK WITH ALL TRADES TO ENSURE PROPER PLACEMENT OF ALL OPENINGS, SLEEVES, CURBS, CONDUITS, BOLTS, INSERTS, ETC. RELATIVE TO WORK.
7. ADD (2) #5 BARS MINIMUM AROUND ALL OPENINGS (UNLESS OTHERWISE NOTED) AND EXTEND 24" BEYOND CORNER OF OPENING.
8. PROVIDE A #3 NOSING BAR IN ALL STAIR TREADS.
9. REFER TO DRAWINGS FOR TYPICAL CONSTRUCTION JOINT DETAILS. UNLESS NOTED IN DRAWINGS, ALL REINFORCEMENT SHALL BE CONTINUOUS THRU JOINTS AND EACH CONSTRUCTION JOINT SHALL BE KEYED.
10. WHERE EXTERIOR SLABS ON GRADE ABUT WALLS OR COLUMNS PROVIDE 3/8" PREFORMED EXPANSION JOINT WITH SEALANT.

REINFORCING STEEL

1. ALL REINFORCEMENT SHALL BE DETAILED AND PLACED IN ACCORDANCE WITH ACI DETAILING MANUAL 315-92 AND ACI STANDARD 318-02.
2. REINFORCING STEEL SHALL BE ASTM A615 GRADE 60.
3. ALL REINFORCEMENT SHALL BE SECURELY TIED AND HELD IN PLACE.
4. ALL CONTINUOUS REINFORCEMENT SHALL TERMINATE WITH A 90 DEGREE TURN OR A SEPARATE CORNER BAR. ALL SPLICE SHALL HAVE A MINIMUM LAP OR EMBEDMENT PER REINFORCING SCHEDULE.
5. COVER TO MAIN REINFORCEMENT FROM ADJACENT SURFACES SHALL BE AS FOLLOWS UNLESS SHOWN OTHERWISE:
   A. UNFORMED SURFACES IN CONTACT WITH GROUND OR EXPOSED TO THE WEATHER (BOTTOM OF FOOTINGS). 3"
   B. SLABS ON GRADE..... 2"
   C. FORMED SURFACES IN CONTACT WITH THE GROUND OR EXPOSED TO THE WEATHER (GRADE BMS, WALLS, ETC), BEAMS AND COLUMNS..... 2"
   D. IN ALL CASES MINIMUM COVER SHALL NOT BE LESS THAN THE DIAMETER OF ADJACENT BARS.
6. PRIOR TO FABRICATION AND PLACEMENT, SHOP DRAWINGS FOR ALL REINFORCING STEEL SHALL BE REVIEWED BY THE STRUCTURAL ENGINEER.

STRUCTURAL STEEL

1. ALL STRUCTURAL STEEL AND STRUCTURAL STEEL WORK SHALL COMPLY WITH BOTH THE AISC "MANUAL OF STEEL CONSTRUCTION" CONTAINING THE SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL BUILDINGS, INCLUDING THE "CODE OF STANDARD PRACTICES" (LATEST EDITION), AND WITH THE IBC 2006 EDITION.
2. ALL WIDE FLANGE STRUCTURAL STEEL SHALL BE ASTM A992 AND ALL MISCELLANEOUS SHAPES SHALL BE ASTM A36, UNO.
3. STRUCTURAL STEEL TUBING SHALL CONFORM TO ASTM A500 GRADE B; YIELD STRESS = 46 KSI.
4. USE A325 BOLTS FOR STEEL TO STEEL CONNECTIONS AND A307 BOLTS FOR ALL OTHER CONNECTIONS. USE 3/4" DIAMETER MINIMUM.
5. PRIOR TO FABRICATION AND ERECTION, SHOP DRAWINGS FOR ALL STEEL ITEMS SHALL BE REVIEWED BY THE STRUCTURAL ENGINEER. THE CONTRACTOR SHALL VERIFY ALL SHOP DRAWING DIMENSIONS WITH STRUCTURAL AND ARCHITECTURAL PLANS AND DETAILS.
6. ALL WELDS SHALL BE MADE WITH E70XX ELECTRODES AND BY WELDERS CERTIFIED BY AWS STANDARDS WITHIN THE PAST 12 MONTHS; PROVIDE WRITTEN CERTIFICATION IF REQUESTED.
7. UNLESS NOTED OTHERWISE, BEAMS SUPPORTING FLOOR SYSTEMS SHALL BE CAMBERED 1/4 INCH PER 10 FEET OF SPAN.

PRE-ENGINEERED METAL BUILDING FRAME

1. THE COMPLETE DESIGN OF METAL BUILDING INCLUDING ALL COMPONENTS SHOWN OR NOT SHOWN ON THE DRAWINGS SHALL BE ACCOMPLISHED BY THE BUILDING MANUFACTURER.
2. THE DESIGN SHALL BE MADE BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE PROJECT IS CONSTRUCTED AND HE SHALL AFFIX HIS REGISTRATION NUMBER AND SEAL TO ALL SHOP DRAWINGS AND CALCULATIONS. HE SHALL SUBMIT SHOP DRAWINGS AND CALCULATIONS TO ARCHITECT/ENGINEER FOR REVIEW BEFORE FABRICATION. CALCULATIONS SHALL INCLUDE ALL BUILDING REACTIONS ON THE FOUNDATIONS. THESE REACTIONS SHALL BE REVIEWED FOR COMPLIANCE WITH THE FOUNDATION DESIGN.

PRE-ENGINEERED METAL BUILDING FRAME, CONT

3. THE BUILDING AND ALL OF ITS COMPONENTS SHALL BE DESIGNED FOR THE FOLLOWING DEAD AND LIVE LOADS:
   A. ACTUAL WEIGHT OF STEEL STRUCTURE.
   B. 10 PSF DEAD LOAD IN ADDITION TO ACTUAL WEIGHT.
   C. 30 PSF ROOF SNOW LOAD, + DRIFT ON THE LOW ROOF AND OTHER APPLICABLE AREAS. AS PER IBC 2003.
   D. ANY ADDITIONAL LOADS AND REACTIONS THAT ARE SHOWN OR NOTED ON THE DRAWINGS, SEE PLAN NOTES.
   E. WIND LOAD AS REQUIRED BY THE IBC 2003. (SEE STRUCTURAL DESIGN LOADS)
   F. SEISMIC LOADS AS REQUIRED BY THE IBC 2003. (SEE STRUCTURAL DESIGN LOADS)
   G. THRU-WALL FAN- 350#, SEE MECHANICAL DRAWINGS & DETAILS.
   H. SUSPENDED UNIT HEATERS= 300#, SEE MECHANICAL DRAWINGS AND DETAILS.
4. SEE PLAN FOR ADDITIONAL DESIGN NOTES (i.e. FUTURE EXPANSION LOADS, SUSPENDED LOADS, ETC.).
5. PROVIDE BRACED BAYS ONLY WHERE INDICATED. SUBMIT PROPOSED LOCATIONS TO ARCHITECT FOR APPROVAL BEFORE FABRICATIONS. RIGID FRAME COLUMN BASES SHALL BE DESIGNED FOR A PINNED CONDITION. NO DIAGONAL BRACING SHALL BE USED AT ENDWALLS UNLESS INDICATED. PROVIDE PORTAL FRAMES, AS REQUIRED. PROVIDE TURNBUCKLES ON ALL ROD "X" BRACING.
6. WHERE RIGID FRAMES ARE INDICATED AT ENDWALLS DESIGN FRAMES FOR CLEAR SPAN CONDITION WITH NO INTERMEDIATE SUPPORTS. INTERIOR ENDWALL COLUMNS SHALL BE FOR LATERAL LOAD ONLY.
7. NO LIVE LOAD REDUCTION SHALL BE TAKEN FOR THE DESIGN OF THE RIGID FRAMES.
8. WHERE MEMBER SIZES AND GAGES ARE SHOWN THEY SHALL BE CONSIDERED A MINIMUM SIZE. THE MANUFACTURER SHALL NOT USE SMALLER OR LIGHTER GAGES, OR OMIT FRAMING WHERE INDICATED. HE SHALL USE ONLY LARGER SIZE AND HEAVIER GAGES IF HIS DESIGN INDICATES THESE ARE REQUIRED TO MEET THE LOADING CRITERIA.
9. THE DEFLECTION OF GIRTS AND PURLINS SHALL BE LIMITED TO 1/240 OF THE SPAN. DEFLECTION OF RIGID FRAMES SHALL BE LIMITED TO 1/360 OF THE SPAN. DEFLECTIONS SHALL BE BASED ON TOTAL LOAD. (DEAD LOAD PLUS LIVE LOAD).
10. SEE THE SPECIFICATIONS FOR ADDITIONAL DESIGN AND FABRICATION CRITERIA.
11. THE PREFABRICATED METAL BUILDING SHALL BE DESIGNED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE ABOVE NOTES, THE PLANS AND DETAILS, THE SPECIFICATIONS AND IN ACCORDANCE WITH RECOMMENDED DESIGN PRACTICES MANUAL OF THE METAL BUILDING MANUFACTURERS ASSOCIATION (MBMA) AND IN ACCORDANCE WITH MBMA SPECIFICATIONS.

STRUCTURAL DESIGN LOADS

ROOF:
DEAD LOAD: TO BE DETERMINED BY METAL BLDG MFR + 10 PSF
SNOW: 30 PSF

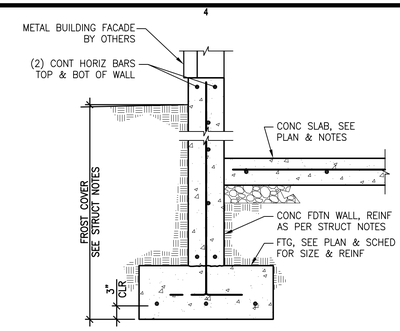
WIND LOAD:
BASIC WIND SPEED: V = 90 MPH (3 SEC GUST)
IMPORTANCE FACTOR: I = 1.0
WIND EXPOSURE: "C"

SEISMIC:
OCCUPANCY CATEGORY: II
SPECTRAL RESPONSE COEF: SDS = 0.79, SD1 = 0.45
SITE CLASS: D
BASIC SEISMIC-FORCE-RESISTING SYSTEM:
ORDINARY STEEL MOMENT FRAME
R=3.5, OMEGA=3.5, Cd=3

SOILS:
NET ALLOWABLE SOIL PRESSURE = 1500 PSF (ASSUMED), TO BE VERIFIED BY GEOTECHNICAL ENGINEER BEFORE FOOTINGS ARE PLACED.

QUALITY ASSURANCE PLAN

1. SPECIAL INSPECTION SHALL BE PROVIDED BY THE OWNER ACCORDING TO IBC CHAPTER 17 FOR THE ITEMS IDENTIFIED IN THIS SECTION AND ON THE CONTRACT DOCUMENTS.
2. THE NAMES AND CREDENTIALS OF SPECIAL INSPECTORS TO BE USED SHALL BE SUBMITTED TO THE BUILDING DEPARTMENT WHEN APPLYING FOR A BUILDING PERMIT.
3. SPECIAL INSPECTION REPORTS SHALL BE DELIVERED TO THE ENGINEER OF RECORD, ARCHITECT, AND OWNER (AS REQUESTED) BI-WEEKLY OR MORE FREQUENTLY AS REQUIRED BY THE INSPECTOR OR BUILDING OFFICIAL.
4. OFF-SITE FABRICATION: WHERE FABRICATION OF STRUCTURAL LOAD-BEARING MEMBERS AND ASSEMBLIES IS BEING PERFORMED ON THE PREMISES OF A FABRICATORS SHOP, SPECIAL INSPECTION OF THE FABRICATED ITEMS SHALL BE IN ACCORDANCE WITH IBC SECTION 1704.2 UNLESS THE FABRICATOR IS APPROVED ACCORDING TO IBC SECTION 1704.2.2.
5. STEEL CONSTRUCTION: SPECIAL INSPECTIONS FOR STEEL ELEMENTS SHALL BE PROVIDED IN ACCORDANCE WITH SECTIONS 1704.3 AND TABLE 1704.3.
6. WELDING: WELDING INSPECTION SHALL BE PROVIDED IN ACCORDANCE WITH TABLE 1704.3. ELEMENTS THAT ARE PART OF THE SEISMIC-FORCE-RESISTING SYSTEM SHALL ALSO BE INSPECTED ACCORDING TO SECTION 1707.2 AND 1708.4.
7. SOILS: SPECIAL INSPECTION SHALL BE PROVIDED FOR PLACEMENT OF FILL 12 INCHES OR MORE DEEP IN ACCORDANCE WITH SECTION 1704.7.
8. NO SPECIAL INSPECTION OF CONCRETE FOOTINGS AND FOUNDATIONS IS REQUIRED SINCE THE DESIGN STRENGTH f'c IS EQUAL TO 2500 PSI. SEE IBC SECTION 1704.4 exception 2.2.
9. NO SPECIAL INSPECTION OF CONCRETE REINFORCING STEEL IS REQUIRED SINCE THE CONCRETE ITSELF REQUIRES NO SPECIAL INSPECTION. SEE IBC SECTION 1704.4 exception 2.2.
10. NO INSPECTION OF BOLTS INSTALLED IN CONCRETE IS REQUIRED SINCE THE STRESS INCREASES PERMITTED BY SECTION 1912.5 ARE NOT UTILIZED.



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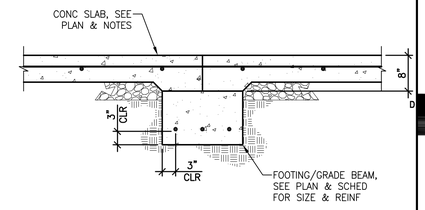

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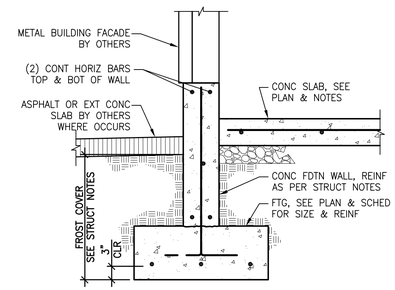

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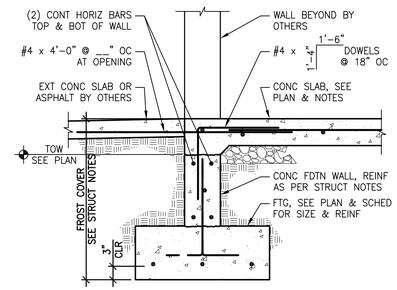

C5 EXT DOOR OPENING DETAIL
3632.02 (M)
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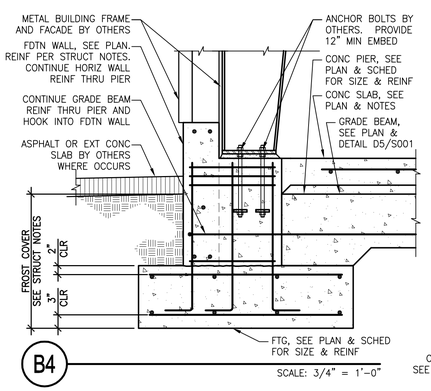

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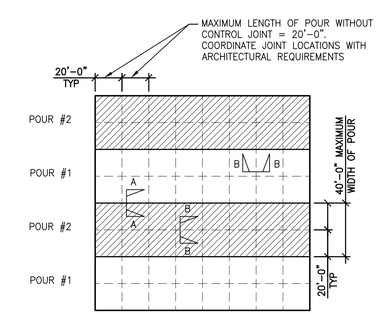
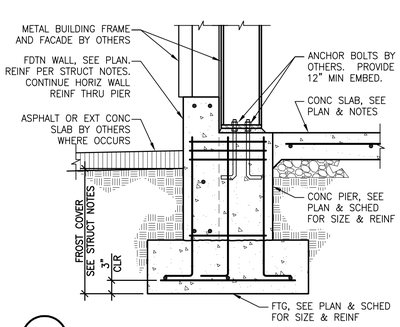


PLAN



A4
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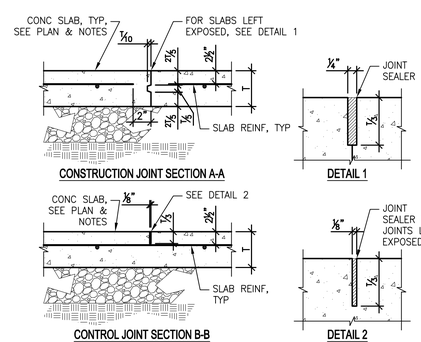

CONSTRUCTION JOINT SECTION A-A
DETAIL 1
CONTROL JOINT SECTION B-B
DETAIL 2

A5 TYPICAL POURING SEQUENCE AND JOINTS FOR SLAB ON GRADE
SCALE: NONE

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DRAPER, UTAH 84020-1776

07/27/07	CD	UTNG REVIEW SET

PROJECT NO: B06-007
CAD DWG FILE: S001.dwg
DRAWN BY: DJK
CHECKED BY: SDC

STRUCTURAL GENERAL NOTES & DETAILS

S001
SHEET # OF #

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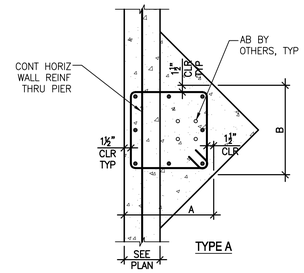
CONCRETE PIER SCHEDULE

MARK	CONCRETE PIER SIZE A	CONCRETE PIER SIZE B	REINFORCING VERTICAL	REINFORCING TIES	CONFIGURATION
CP–1	1'–8"	1'–8"	(8) #5	#3 @ 6" OC	TYPE A

NOTES

1. PROVIDE (3) SETS OF TIES IN TOP 5" OF PIER IN ADDITION TO TIE SPACING SHOWN.
2. EMBED COLUMN ANCHOR BOLTS PER DETAILS.
3. NOT ALL BAR CONFIGURATIONS ARE SHOWN. PROVIDE CROSS TIES WHERE VERT REINF IS SPACED MORE THAN 6" APART OR AT EVERY OTHER VERT BAR.
4. CROSS TIES SHALL HAVE ONE END WITH A 90° HOOK AND ONE END WITH A 135° HOOK. ALTERNATE ENDS OF HOOKS ALONG VERT BARS.
5. TOP OF PIER AND TOP OF WALL MAY BE AT DIFFERENT ELEVATIONS. COORDINATE ELEVATIONS WITH PLANS AND DETAILS.



D3 CONCRETE PIER SCHEDULE

3310.01 SCALE: NONE

FOOTING SCHEDULE

MARK	WIDTH	LENGTH	THICK	CROSSWISE REINF NO	CROSSWISE REINF SIZE	CROSSWISE REINF LENGTH	CROSSWISE REINF SPACING	LENGTHWISE REINF NO	LENGTHWISE REINF SIZE	LENGTHWISE REINF LENGTH	LENGTHWISE REINF SPACING	NOTES
FC2.0	2'–0"	CONT	12"	–	–	–	–	3	#5	CONT	9"	
FC/GB1.5	1'–6"	CONT	12"	–	–	–	–	3	#5	CONT	6"	GRADE BEAM
FS4.0	4'–0"	4'–0"	12"	4	#5	3'–6"	14"	4	#5	3'–6"	14"	TOP REINFORCING
				4	#5	3'–6"	14"	4	#5	3'–6"	14"	BOTTOM REINFORCING

NOTES

1. PLACE CROSSWISE REINFORCING 3" CLEAR FROM GRADE AND LENGTHWISE REINFORCING ON TOP OF CROSSWISE.
2. WHERE TOP REINFORCING IS INDICATED, PLACE TOP CROSSWISE REINFORCING 2" CLEAR FROM TOP OF FOOTING AND LENGTHWISE REINFORCING UNDER CROSSWISE REINFORCING.
3. ALL CONTINUOUS FOOTINGS SHALL BE FC2.0 AND SQUARE FOOTINGS SHALL BE FS3.0, MINIMUM, UNO ON PLANS.

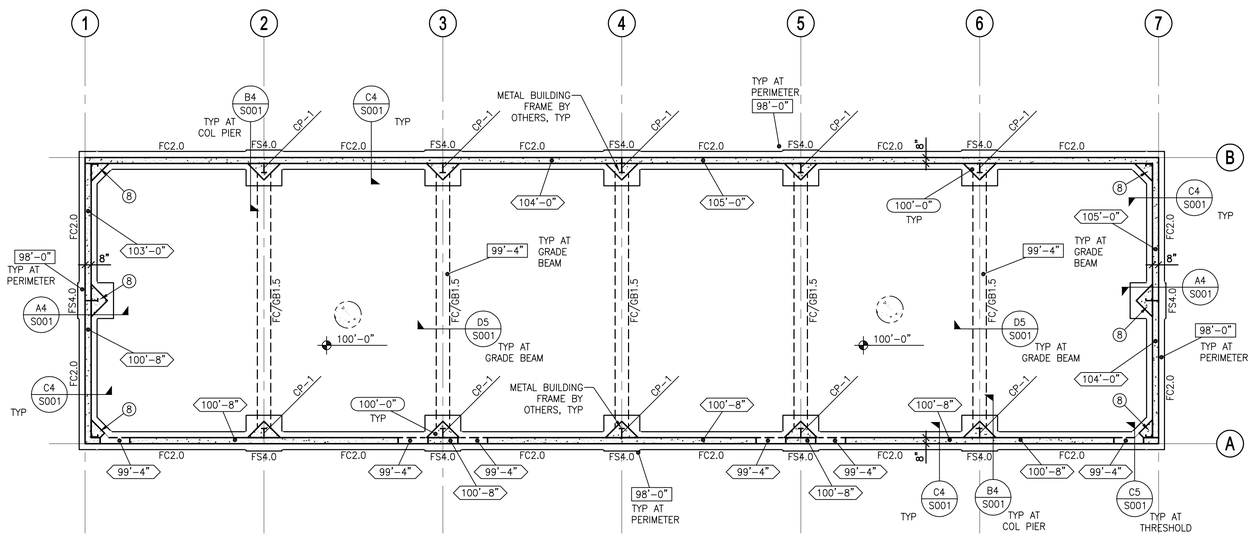
C3 FOOTING SCHEDULE

3110.00 SCALE: NONE

PLAN NOTES (FTG & FDTN):

(○) CIRCLED NOTES ARE KEYED ON PLAN.

1. SLAB ON GRADE SHALL BE 6" CONCRETE OVER 4" FREE–DRAINING GRAVEL. REINFORCE SLAB WITH #4 @ 18" OC EA WAY.
2. PLACE CONTROL JOINTS AND CONSTRUCTION JOINTS IN SLAB PER GENERAL NOTES. SEE DETAIL A5/S001. COORDINATE W/ ARCH REQUIREMENTS.
3. CENTER FOOTINGS ON WALLS AND COLUMNS UNLESS DIMENSIONED OTHERWISE ON PLANS.
4. SEE PLAN AND SECTIONS FOR TOP OF FOUNDATION WALL ELEVATIONS.
5. COORDINATE METAL BUILDING FRAME COLUMN LOCATIONS, BASE PLATE SIZES, AND ANCHOR BOLT CONFIGURATIONS W/ METAL BUILDING MANUFACTURER'S PLANS. CONTRACTOR SHALL NOTIFY ENGINEER REGARDING ANY DISCREPANCIES.
6. ALL SITE PREPARATION, EXCAVATION, FILL, COMPACTION, AND PLACEMENT WORK PERFORMED SHALL COMPLY WITH RECOMMENDATIONS OUTLINED IN THE SITE PREPARATION NOTES ON S001.
7. SEE ARCHITECTURAL/SITE DRAWINGS FOR INFORMATION AND LOCATION OF SITE WALLS, STEPS, PLANTERS, RAMPS, ETC.
8. (8) AT ALL PIERS OTHER THAN CP–1, PROVIDE PIERS W/ DIMENSION AS REQD TO SUPPORT METAL BUILDING COLUMNS ABOVE. REINF PIERS W/ (4) #5 VERT & #3 TIES @ 6" OC W/ (3) #3 TIES @ 2" OC AT TOP.
9. SEE GENERAL NOTES ON SHEET S001 FOR ADDITIONAL INFORMATION.



A2 FOOTING & FOUNDATION PLAN

SCALE: 1/8" = 1'–0"

LEGEND:

FCx, FSx	CONTINUOUS FOOTING, SPOT FOOTING TYPES RESPECTIVELY, SEE SCHEDULE ON SHEET S501
CP–#	CONCRETE PIER, SEE SCHEDULE ON SHEET S501
	SLAB BLOCK–OUT AT COLUMN
xx'–xx"	TOP OF FOOTING ELEVATION
xxx'–xx"	TOP OF WALL ELEVATION
xx'–xx"	TOP OF PIER ELEVATION
xxx'–xx"	TOP OF SLAB ELEVATION
	CONCRETE FOOTING
	THICKENED SLAB OR GRADE BEAM
	RECESS IN CONCRETE FOUNDATION WALL
I	STEEL COLUMN
	CONCRETE SLAB ON GRADE

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FOOTING & FOUNDATION PLAN AND SCHEDULES

S101

SHEET # OF #

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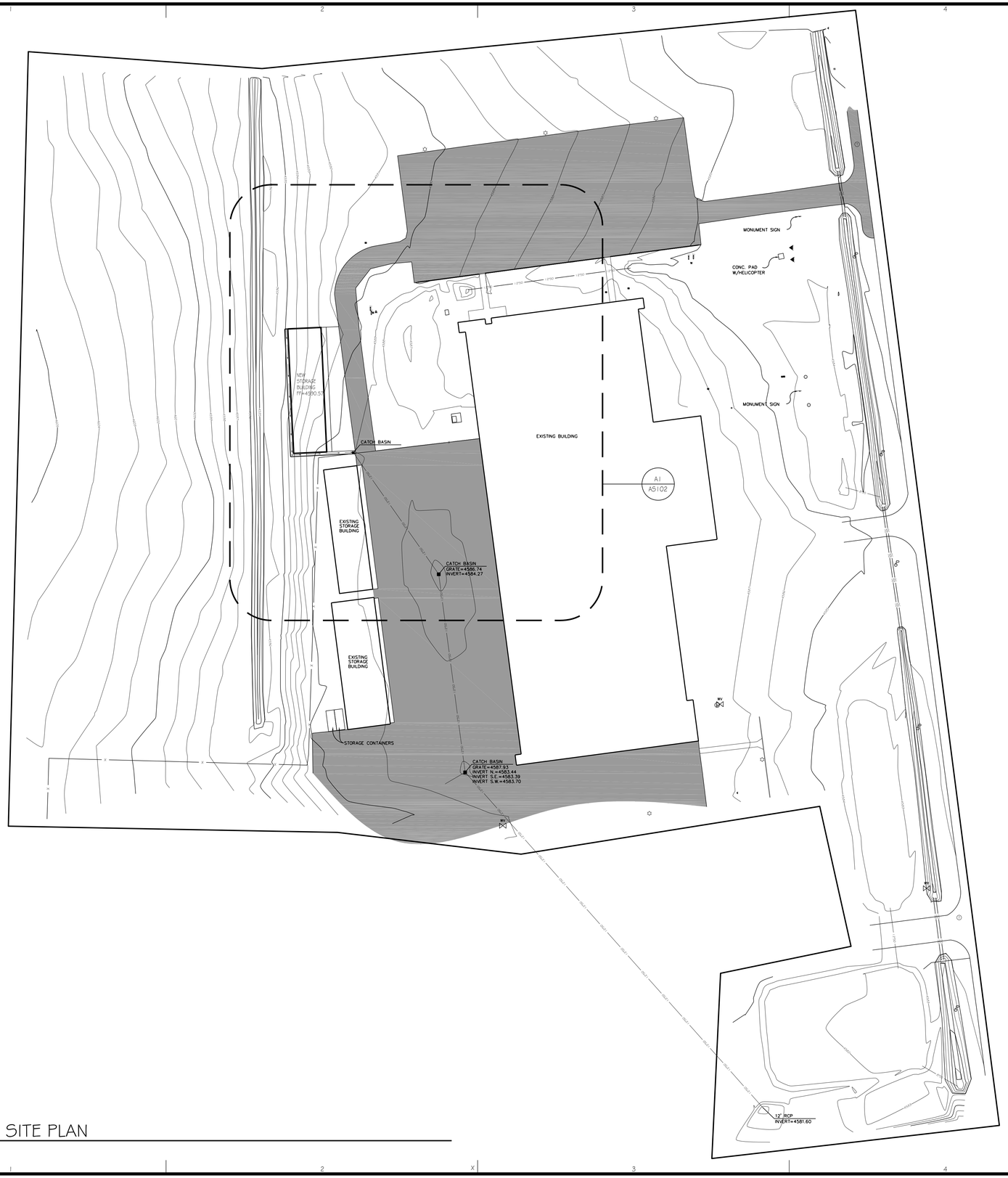

A1 OVERALL SITE PLAN

SCALE: 1"=50'-0"

CODE ANALYSIS

APPLICABLE CODES

	Year		Year
International Building Code	2006	National Electrical Code	2005
International Mechanical Code	N/A	Uniform Code for Building Conservation	N/A
International Plumbing Code	2006	ADA Accessibility Guildelines	2003
International Fire Code	2006		
International Energy Conservation Code	N/A		

A. Occupancy and Group: S-1

Change in Use: Yes _____ No X Mixed Occupancy: Yes _____ No X

Special Use and Occupancy (e.g. High Rise, Covered Mall): N/A

B. Seismic Design Category: D Design Wind Speed: 90 mph

C. Type of Construction (circle one):

I/A I/B II/A II/B III/A III/B IV/HT V/A (V/B)

D. Fire Resistance Rating Requirements for the Exterior Walls based on the fire separation distance (in hours):

North: 0 South: 0 East: 0 West: 0

E. Mixed Occupancies: N/A Nonseparated Uses: N/A

F: Sprinklers:

Required: N/A Provided: N/A Type of Sprinkler System: N/A

G: Number of Stories: 1 Building Height: 14' +/-

H: Actual Area per Floor (square feet): 8964 sf existing + 3840 sf proposed = 12840 sf

NOTE: Evaluate new and existing storage buildings on site as a single building. Distance between storage building(s) and other buildings on site exceeds 100 feet.

I: Tabular Area: 9000 SF

J: Area Modifications:

a) $A_a = \{A_t + [A_t \times I_f] + [A_t \times I_s]\}$ $I_f = [F/P - 0.25]\ W/30$

b) Sum of the Ratio Calculations for Mixed Occupancies:

$$\frac{\text{Actual Area}}{\text{Allowable Area}} \leq 1$$

c) Total Allowable Area for:

1) One Story: 15,750 SF
2) Two Story: $A_a(2)$ N/A
3) Three Story: $A_a(3)$ N/A

d) Unlimited Area Building: Yes _____ No X Code Section: N/A

K. Fire Resistance Rating Requirements for Building Elements (hours).

Element	Hours	Assembly Listing	Element	Hours	Assembly Listing
Exterior Bearing Walls	0		Floors - Ceiling Floors	N/A	
Interior Bearing Walls	0		Roofs - Ceiling Roofs	0	
Exterior Non-Bearing Walls	0		Exterior Doors and Windows	0	
Structural Frame	0		Shaft Enclosures	N/A	
Partitions - Permanent	N/A		Fire Walls	N/A	
Fire Barriers	N/A		Fire Partitions	N/A	
			Smoke Partitions	N/A	

L. Design Occupant Load: 8 @ 1/500 SF

Exit Width Required: 72" Exit Width Provided: 216"

M. Minimum Number of Required Plumbing Facilities: N/A

a) Water Closets - Required (m) _____ (f) _____ Provided (m) _____ (f) _____
b) Lavatories - Required (m) _____ (f) _____ Provided (m) _____ (f) _____
c) Bath Tubs or Showers: _____
d) Drinking Fountains: _____ Service Sinks: _____

FOOTNOTES:

1) In case of conflict with the U.S. Department of Justice Federal Registers Parts I through V - ADA Guidelines and specific reference to the International Building Code Accessibility Chapters, the more restrictive requirement shall govern.

2) Additional Code Information shall be provided at the discretion of the Building Official for Complex Buildings. Including, but not limited to:
   a) High Rise Requirements.
   b) Atriums.
   c) Performance Based Criteria.
   d) Means or Egress Analysis.
   e) Fire Assembly Locator Sheet.
   f) Exterior and Interior Accessibility Route.
   g) Fire Stopping, Including Tested Design Number.

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SITE PLAN

AS101

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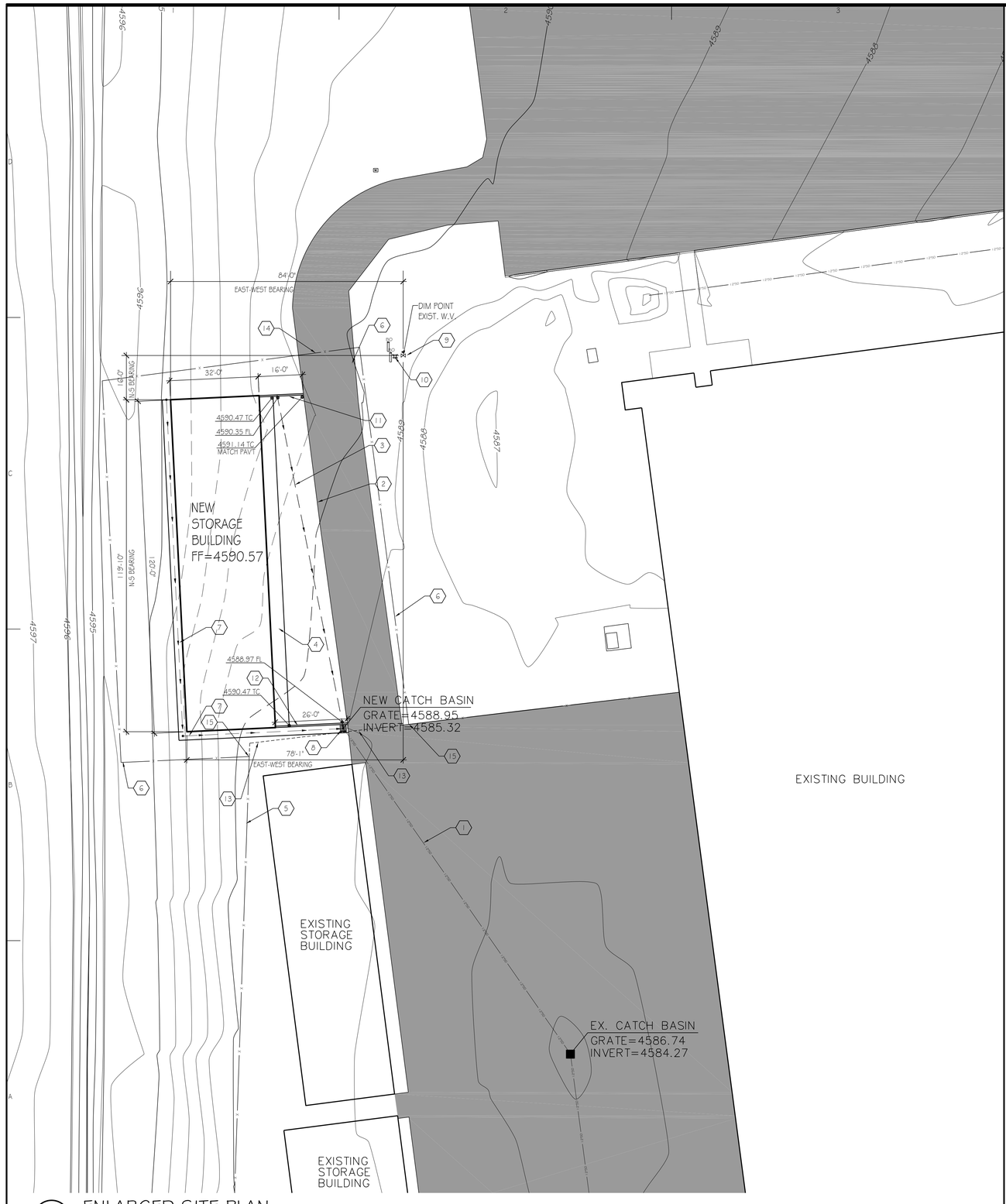

A1 ENLARGED SITE PLAN

SCALE: 1"=20'-0"

REFERENCE NOTES

1. CONSTRUCT AND INSTALL NEW, 12" DIA. REINFORCED CONCRETE STORM DRAIN PIPE. RUN FROM NEW CATCH BASIN ADJACENT TO NEW APRON TO EXISTING CATCH BASIN. MAINTAIN 0.5% SLOPE MINIMUM, 0.75% PREFERRED. CUT AND PATCH EXISTING A/C PAVING, TRENCH AND BACKFILL AS REQUIRED TO ACCOMMODATE INSTALLATION OF NEW STORM DRAIN PIPE.

2. EXISTING ASPHALT PAVEMENT TO REMAIN. SAW-CUT AS REQUIRED TO INSTALL AND TIE-IN NEW CONCRETE APRON.

3. NEW CONCRETE APRON: 5-½" NET THICKNESS OVER 12" COMPACTED ROAD BASE. SLOPE/WARP TO CREATE DRAINAGE SWALE AT LINE INDICATED. DO NOT EXCEED 8.33% SLOPE ACROSS SWALE. PROVIDE MEDIUM BROOM FINISH. MATCH EXISTING ASPHALT PAVING SURFACE ALONG EAST EDGE AND MATCH NEW APRON ALONG WEST EDGE. TIE-IN FOR A CONTINUING COMMON SURFACE.

4. NEW CONCRETE APRON: 5-½" NET THICKNES OVER 12" COMPACTED ROAD BASE. MATCH TO BLDG FLOOR ELEVATION AT DOORS AND SLOPE AWAY FROM BLDG AT 2% MAX.

5. EXISTING CHAIN LINK FENCE TO REMAIN.

6. NEW CHAIN LINK FENCE: MODIFY EXISTING CHAIN LINK FENCES AND GATES TO GENERAL CONFIGURATION INDICATED AND TO PRECISE NEW ALIGNMENT AS DIRECTED BY OWNER. MATCH EXISTING CHARACTER AND QUALITY OF INSTALLATION.

7. 36"x4" THICK CONCRETE "V"-GUTTER AROUND NEW BUILDING. MATCH TO EXISTING GRADES, SLOPE DIRECTION AS INDICATED.

8. NEW 24"x24"-DEPTH REQUIRED PRE-CAST CONCRETE CATCH BASIN. INSTALL AT ELEVATION INDICATED. TIE-IN NEW STORM DRAIN PIPE AND INTEGRATE INLET GRATE WITH NEW CONC. "V"-GUTTER.

9. LOCATION OF NEW BUILDING AND ASSOCIATED IMPROVEMENTS IS BASED UPON TOP CENTER OF EXISTING WATER VALVE COVER AS DEFINED IN SURVEY DOCUMENTS BY OTHERS. DURING INITIAL LAYOUT, FIELD VERIFY ACCURACY OF EXISTING SITE FEATURES SUCH AS WATER VALVE, PAVING, ADJACENT BUILDINGS, AND EARTH CONTOURS. NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES WHICH MAY IMPACT THE EXECUTION OF THE WORK. DO NOT PROCEED WITH CONSTRUCTION ACTIVITIES UNTIL SUCH DISCREPANCIES HAVE BEEN RESOLVED.

10. EXISTING FIRE HYDRANT.

11. 6" THICK CONCRETE GARDEN WALL OR CURB, HEIGHT AS REQUIRED TO RETAIN FINISHED GRADE ABOVE PAVING. PROVIDE NOT LESS THAN 16"x10" CONCRETE FOOTING, T.O.F. AT 30" BELOW LOWEST ADJACENT GRADE. DOWEL CURB INTO FTG W/ #4 BARS AT 24" O.C. NOTE: PRECISE DETAILS AND EXTENT OF THIS WALL/CURB WILL DEPEND UPON DETAILED FINISHED CONDITIONS AND ARE SUBJECT TO FIELD ENGINEERING.

12. 6" THICK CONCRETE CURB, HEIGHT AS REQUIRED TO SUPPORT EDGE OF PAVING ABOVE ADJACENT FINISH GRADE. PROVIDE NOT LESS THAN 16"x10" CONCRETE FOOTING, T.O.F. AT 30" BELOW LOWEST ADJACENT GRADE. DOWEL CURB INTO FTG W/ #4 BARS AT 24" O.C. NOTE: PRECISE DETAILS AND EXTENT OF THIS CURB WILL DEPEND UPON DETAILED FINISHED CONDITIONS AND ARE SUBJECT TO FIELD ENGINEERING.

13. DEMO EXISTING CHAIN LINK FENCE & GATES. SALVAGE EXISTING GATES FOR RE-INSTALLATION ACROSS ROADWAY.

14. REINSTALL EXISTING CHAIN LINK GATES AT THIS LOCATION. ADJUST PRECISE ALIGNMENT AND CONFIGURATION OF NEW FENCE RUN TO ACCOMMODATE INSTALLATION OF EXISTING GATES.

15. TIE-IN NEW FENCE TO EXISTING FENCE.

GENERAL NOTES

1. VERIFY SITE CONDITIONS INCLUDING UTILITY LOCATIONS PRIOR TO COMMENCING WORK.

2. CONTOURS AND PLACEMENT OF NEW BUILDING AND ASSOCIATED IMPROVEMENTS ARE BASED UPON SURVEY INFORMATION PROVIDED BY OTHERS. FIELD VERIFY EXISTING CONDITIONS AFFECTING EXECUTION OF THE WORK PRIOR COMMENCING CONSTRUCTION ACTIVITIES. NOTIFY ARCHITECT IMMEDIATELY OF ANY SIGNIFICANT DISCREPANCIES. DO NOT PROCEED WITH CONSTRUCTION UNTIL SUCH DISCREPANCIES HAVE BEEN RESOLVED. AT NO ADDITIONAL COST TO OWNER, PROVIDE MINOR FIELD ENGINEERING AND ADJUSTMENTS IN CONSTRUCTED IMPROVEMENTS AS REQUIRED TO ACCOMMODATE NORMAL SURFACE VARIATIONS ENCOUNTERED DURING THE COURSE OF THE WORK.

3. REPAIR AND RESTORE PAVING, SIDEWALKS, AND OTHER EXISTING IMPROVEMENTS AFFECTED BY THIS WORK.

4. CUT, FILL AND RE-GRADE AS REQUIRED TO MATCH NEW IMPROVEMENTS TO SLOPES AND GRADES INDICATED. DISPOSE OF EXCESS SOIL ON-SITE IN MANNER AND LOCATION AS DIRECTED BY OWNER.

5. EXISTING STORAGE BUILDING TO REMAIN OCCUPIED DURING CONSTRUCTION. ITEMS LOCATED NEAR WIRING TO BE MODIFIED WILL BE RELOCATED BY THE OWNER WITHIN THE STORAGE UNITS TO FACILITATE WORK.

6. STAGING AREA FOR CONTRACTOR TO BE DETERMINED AT TIME OF CONSTRUCTION.

7. CLEAR AND GRUB ALL UNIMPROVED AREAS TO RECEIVE NEW WORK UNDER THIS CONTRACT.

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ENLARGED SITE PLAN

AS102

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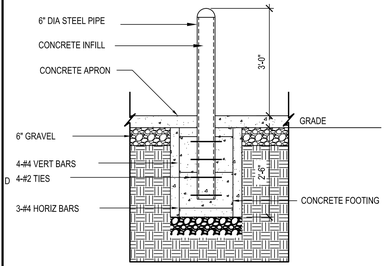
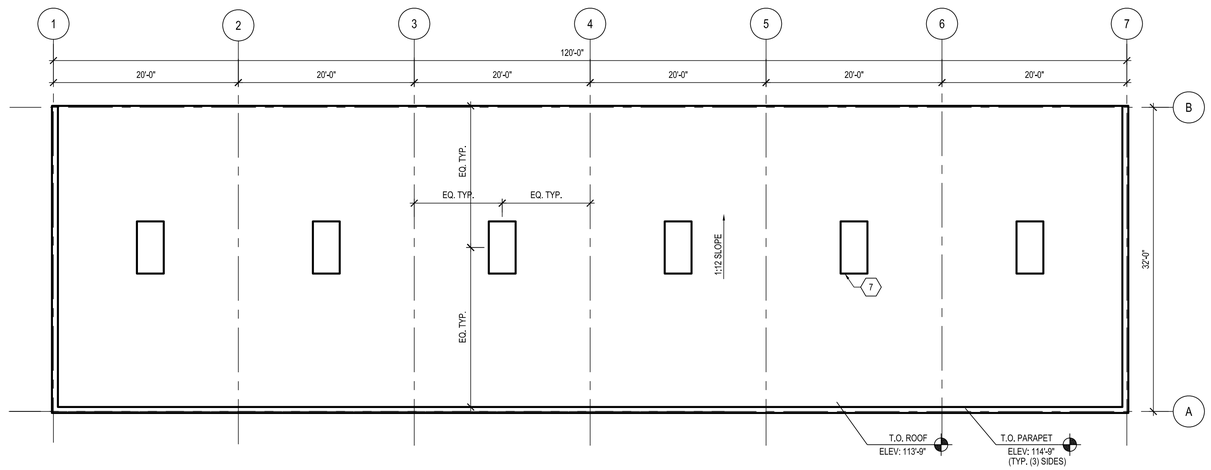


SECTION VIEW

D1 BOLLARD DETAIL

1/2"=1'-0"

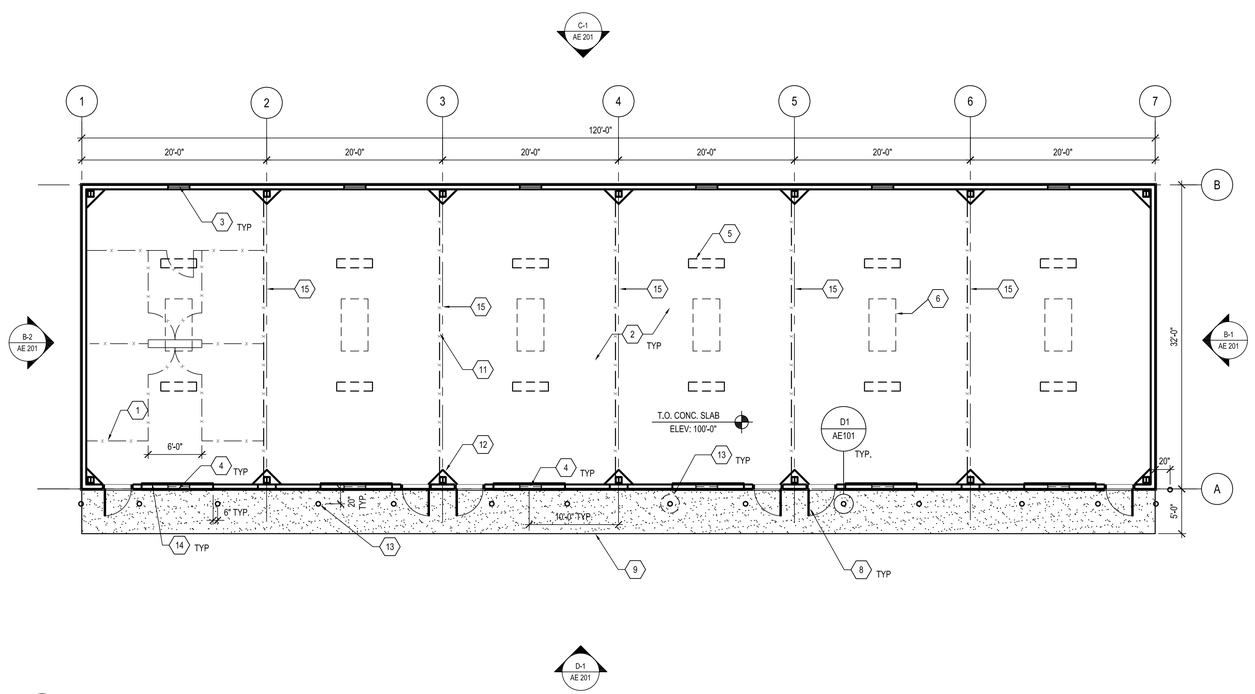
AE501-A5-17



B2 ROOF PLAN

1/8"=1'-0"

AE_BASE-06



B1 MAIN FLOOR PLAN

1/8"=1'-0"

AE501-C5-16

REFERENCE NOTES

1. ALTERNATE #1: PROVIDE FLOOR TO DECK WIRE MESH PARTITIONS, FRAMES, 3'-0"x 7'-0" GATES AND HARDWARE AS SHOWN FOR EACH OF SIX UNITS, INCLUDING ALL LABOR AND MATERIALS. PRICE UNIT IS PER EACH OF SIX BAYS, INCLUDING FIVE STORAGE CELLS IN EACH BAY. (INDIVIDUAL PARTITIONS BETWEEN BAYS ARE BASE-BID ITEM. SEE "ALTERNATES" SECTION IN SPECIFICATIONS)
2. NEW CONCRETE SLAB
3. 30"x12" LOUVERED VENT W/ BUG SCREEN @ 12" A.F.F. - TYPICAL @ EACH BAY
4. 30"x12" LOUVERED VENT W/ BUG SCREEN @ 12" OFF CLG - TPYICAL
5. LIGHT FIXTURE ABOVE, TYP. - SEE ELECTRICAL.
6. SKYLIGHT OR TRANSLUCENT PANEL ABOVE, TYP.
7. SKYLIGHT OR TRANSLUCENT PANEL BY BUILDING MANUFACTURER - 20 S.F. MIN.
8. 36" HOLLOW METAL DOOR IN HOLLOW METAL FRAME.
9. 6" THICK CONCRETE OVER 6" GRAVEL BASE, ALL OVER 12" ENGINEERED FILL.
10. NOT USED
11. WIRE MESH PARTITION, FLOOR TO DECK.
12. CONCRETE PIERS & STEEL COLUMNS, TYP. STRUCTURE AND CONCRETE TO BE VERIFIED BY BUILDING MANUFACTURER.
13. 6" PIPE BOLLARDS, CONCRETE FILLED - PAINT SAFETY YELLOW AND APPLY REFLECTIVE STICKERS.
14. 96"x 120" METAL OVERHEAD DOOR.
15. CRACK CONTROL JOINT IN SLAB FROM PIER TO PIER @ EACH GRID LINE (TYP @ ALL GRIDS)

GENERAL NOTES

1. NOTIFY ARCHITECT IF ANY EXISTING CONDITIONS VARY FROM THOSE SHOWN ON THE DRAWINGS.
2. REPAIR DAMAGE TO EXISTING ELEMENTS TO REMAIN RESULTING FROM DEMOLITION.
3. STRUCTURAL DESIGN TO BE PROVIDED BY BUILDING MANUFACTURER.

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PLANS AND DETAILS

AE101

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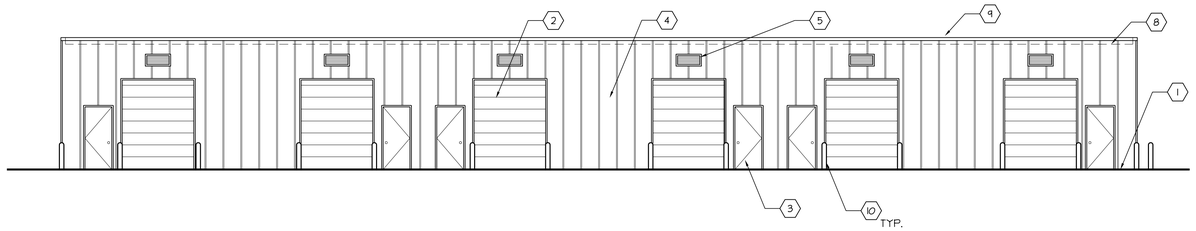
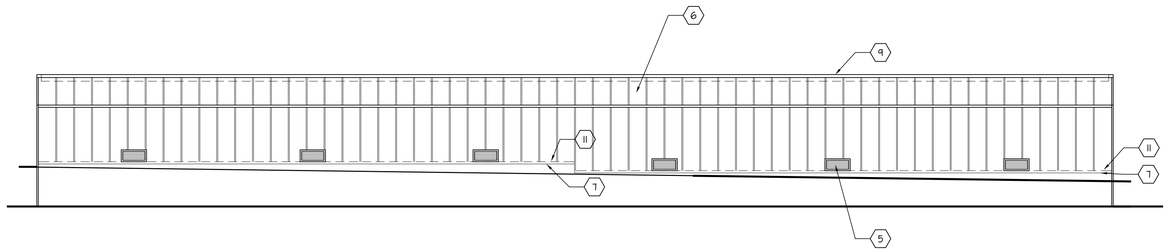
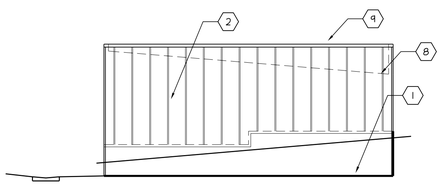


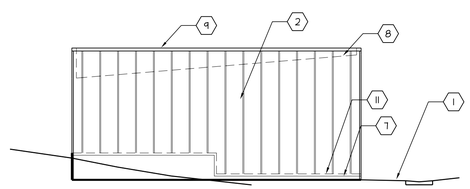
D1 EAST ELEVATION
SCALE: 1/8" = 1'-0"



C1 WEST ELEVATION
SCALE: 1/8" = 1'-0"



B1 NORTH ELEVATION
SCALE: 1/8" = 1'-0"



B3 SOUTH ELEVATION
SCALE: 1/8" = 1'-0"

REFERENCE NOTES

1. FINISH FLOOR
2. VERTICAL METAL SIDING PANELS
3. PERSONNEL DOOR
4. OVERHEAD DOOR
5. VENTILATION LOUVER
6. METAL ROOFING
7. BOTTOM OF SIDING
8. ROOF BEYOND
9. TOP OF PARAPET
10. BOLLARD
11. TOP OF FOUNDATION WALL

GENERAL NOTES

1. NOTIFY ARCHITECT IF ANY EXISTING CONDITIONS VARY FROM THOSE SHOWN ON THE DRAWINGS.
2. REPAIR DAMAGE TO EXISTING ELEMENTS TO REMAIN RESULTING FROM DEMOLITION.
3. STRUCTURAL DESIGN TO BE PROVIDED BY BUILDING MANUFACTURER.

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EXTERIOR ELEVATIONS

AE201

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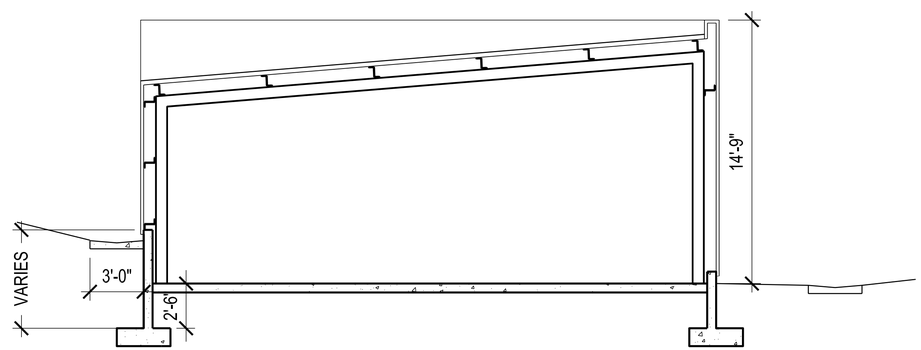

A3 SECTION
SCALE: 1/4" = 1'-0"

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SECTION

AE301

SHEET # OF #

LIGHTING FIXTURE SCHEDULE

NOTE TO BIDDERS: COMPLY WITH SECTIONS 16511, 16521, AND 16570 OF THE SPECIFICATIONS.
REFER TO SPECIFICATIONS FOR IMPORTANT TECHNICAL REQUIREMENTS FOR LIGHTING FIXTURES, BALLASTS, AND LAMPS. THE CATALOG NUMBERS LISTED BELOW HAVE BEEN CAREFULLY PREPARED TO ASSIST BIDDERS IN SELECTING PRODUCTS TO ACHIEVE THE DESIGN CONCEPT, HOWEVER, PRIOR TO BIDDING, EACH MANUFACTURER SHALL COMPARE THE CATALOG NUMBERS SHOWN WITH THE DESCRIPTION AND REQUIREMENTS ON THE DRAWINGS, AND SHALL NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES. SPECIFICALLY INCLUDED IN THIS EVALUATION SHALL BE THE VERIFYING OF PROPER MOUNTING KITS OR ACCESSORIES TO FACILITATE INSTALLATION AS SHOWN AT EACH LOCATION ON THE DRAWINGS. NO ALLOWANCE OR REDRESS WILL BE ALLOWED FOR DISCREPANCIES THAT WERE NOT REPORTED TO THE ARCHITECT/ENGINEER IN TIME FOR CORRECTION OR CLARIFICATION BEFORE THE BID. THE REPORTING OF ANY AMBIGUITY IS THE RESPONSIBILITY OF THE BIDDER. PROVIDE UNIT PRICES AND FIXTURE BRAND SELECTED FOR ADD/DELETE CHANGES FOR EACH FIXTURE TYPES SHOWN WITHIN 48 BUSINESS HOURS OF THE BID DATE. FAILURE TO COMPLY WITH THIS REQUIREMENT MAY DISQUALIFY THE PRODUCTS AND EMPOWER THE ENGINEER TO DETERMINE FAIR VALUE FOR FIXTURE AND INSTALLATION CHANGES, WITHOUT FURTHER INPUT FROM THE CONTRACTOR OR INSTALLER. SUBMITTAL PACKAGE SHALL INCLUDE LAMP MANUFACTURER AND CATALOG NUMBER ON EACH FIXTURE SHEET. ON ALL PENDANT MOUNTED FIXTURES, PROVIDE A SECOND SET OF PENDANTS, OF A DIFFERENT LENGTH, AS DIRECTED BY THE ARCHITECT/ENGINEER, PROVIDED AND INSTALLED AT NO ADDITIONAL CHARGE. ALL FIXTURES SHALL BE APPROVED BY UL OR ANOTHER ACCEPTABLE TESTING LAB FOR THE PURPOSE INTENDED AND WITH THE LAMP AND BALLAST PROPOSED. CONTRACTOR ALLOWANCE PRICES ARE ACCURATE WHEN THIS JOB WAS SPECIFIED, CONTRACTOR AND ELECTRICAL DISTRIBUTOR SHALL VERIFY THIS ALLOWANCE AND REPORT ANY PROBLEMS TO THE ENGINEER BEFORE THE BID. ALLOWANCE PRICE MAY OR MAY NOT INCLUDE LAMP(S) OR FREIGHT AS NOTED, AND DO NOT INCLUDE ANY TAXES.

MARK	FIXTURE CHARACTERISTICS BODY / AIR / MOUNTING / DOOR LENS/LOUVER/REFLECTOR/OTHER	LAMP	WATTS	VOLTS	MANUFACTURER	CATALOG NUMBER	NOTES
SA-99	4 FT 2 LAMP INDUSTRIAL FIXTURE BAKED WHITE ENAMEL REFLECTOR W/ UPLIGHT	2-F32TB RE835	65W	277/120V	LITHONIA METALUX LIGHTOLIER DAY BRITE COLUMBIA	AFST 232 120 CW ECIM 232 120V CW TF4S232 120 50 CW IF 232-PPS-120 LT ML4-232-PRST-FB82-120	
OC-99	HIGH PRESSURE-SODIUM WALL PACK, BOROSILATE GLASS REFRACTOR, CAST ALUMINUM HOUSING MULTI-TAP BALLAST	HPS	150W	120V	HUBBELL NITE BRITES DMA-TOTAL LIGHTING CONCEPTS EXCE LINE	SWP150HPSDBMT WLP150S12-LP ES-2WBISOHPSPGMTBR2 323 150 LXL-8	

SYMBOL LEGEND

SYMBOL	DESCRIPTION
REFERENCE AND LINE SYMBOLS	
A5 / E-501	DETAIL INDICATOR: A5 INDICATES DETAIL NUMBER, E-501 INDICATES DRAWING SHEET WHERE DETAIL IS SHOWN.
A5 / E-201	ELEVATION OR SECTION INDICATOR, EXTERIOR: A5 INDICATES ELEVATION OR SECTION NUMBER, E-201 INDICATES DRAWING SHEET WHERE ELEVATION OR SECTION IS SHOWN.
100	ROOM OR SPACE NUMBER.
1	KEYNOTE INDICATOR.
1	REVISION INDICATOR.
CU-1	EQUIPMENT INDICATOR.
	BREAK, STRAIGHT: TO BREAK PARTS OF DRAWING.
	BREAK, ROUND.
MATCH LINE / SEE XX/X-XXX	MATCH LINE INDICATOR: CENTER, EXTRA WIDE LINE.
WIRING DEVICES	
	RECEPTACLE, DUPLEX: NEMA 5-20R.
X / $	SWITCH, SINGLE POLE ("x" INDICATES FIXTURES CONTROLLED).
WIRING METHODS	
	WIRING.
J	JUNCTION BOX.
P	PHOTOCELL.
LIGHTING (REFER TO THE FIXTURE LEGEND FOR FIXTURE SYMBOLS)	
(W-3)	FIXTURE IDENTIFICATION: (W-3) INDICATES FIXTURE TYPE AS SCHEDULED.
(W-3)	FIXTURE IDENTIFICATION, EMERGENCY, CONNECTED TO GENERATOR AS INDICATED: (W-3) INDICATES FIXTURE TYPE AS SCHEDULED.
EM	EMERGENCY.
NL	NIGHT LIGHT: DO NOT SWITCH.
↑	EGRESS DIRECTION ARROW.
LV	LOW VOLTAGE LIGHTING TRANSFORMER.

DEFINITIONS

NOTE: ALL DEFINITIONS MAY NOT BE USED.

INDICATED: THE TERM "INDICATED" REFERS TO GRAPHIC REPRESENTATIONS, NOTES, OR SCHEDULES ON THE DRAWINGS, OTHER PARAGRAPHS OR SCHEDULES IN THE SPECIFICATIONS, AND SIMILAR REQUIREMENTS IN THE CONTRACT DOCUMENTS. WHERE TERMS SUCH AS "SHOWN", "NOTED", "SCHEDULED", AND "SPECIFIED" ARE USED, IT IS TO HELP THE READER LOCATE THE REFERENCE, NO LIMITATION ON LOCATION IS INTENDED.

DIRECTED: TERMS SUCH AS "DIRECTED", "REQUESTED", AUTHORIZED", "SELECTED", "APPROVED", "REQUIRED", AND "PERMITTED" MEAN "DIRECTED BY THE ENGINEER", "REQUESTED BY THE ENGINEER", AND SIMILAR PHRASES.

APPROVE: THE TERM "APPROVED", WHERE USED IN CONJUNCTION WITH THE ENGINEER'S ACTION ON THE CONTRACTOR'S SUBMITTALS, APPLICATIONS, AND REQUESTS, IS LIMITED TO THE ENGINEER'S DUTIES AND RESPONSIBILITIES AS STATED IN GENERAL AND SUPPLEMENTARY CONDITIONS.

FURNISH: THE TERM "FURNISH" IS USED TO MEAN "SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS."

INSTALL: THE TERM "INSTALL" IS USED TO DESCRIBE OPERATIONS AT PROJECT SITE INCLUDING THE ACTUAL "UNLOADING, UNPACKING, ASSEMBLY, ERECTION, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS."

PROVIDE: THE TERM "PROVIDE" MEANS "TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE."

INSTALLER: AN "INSTALLER" IS THE CONTRACTOR OR AN ENTITY ENGAGED BY THE CONTRACTOR, EITHER AS AN EMPLOYEE, SUBCONTRACTOR, OR SUB-SUBCONTRACTOR, FOR PERFORMANCE OF A PARTICULAR CONSTRUCTION ACTIVITY, INCLUDING INSTALLATION, ERECTION, APPLICATION, AND SIMILAR OPERATIONS. INSTALLERS ARE REQUIRED TO BE EXPERIENCED IN THE OPERATIONS THEY ARE ENGAGED TO PERFORM.

ELECTRICAL SHEET INDEX

SHEET NO	DRAWINGS
EE001	SHEET INDEX, SYMBOL LEGEND, FIXTURE SCHEDULE
ES101	ELECTRICAL SITE PLAN
EP101	ELECTRICAL PLAN

ABBREVIATIONS

NOTE: ALL ABBREVIATIONS MAY NOT BE USED.

1P	SINGLE POLE	kVAR	KILOVOLT AMPERE REACTIVE
1PH	SINGLE-PHASE	kW	KILOWATT
1WAY	ONE-WAY	kWh	KILOWATT HOUR
2/C	TWO-CONDUCTOR	LED	LIGHT EMITTING DIODE
2WAY	TWO-WAY	LFMC	LIQUID TIGHT FLEXIBLE METAL CONDUIT
3/C	THREE-CONDUCTOR	LFNC	LIQUID TIGHT FLEXIBLE NONMETALLIC CONDUIT
3PH	THREE-PHASE	LPS	LOW PRESSURE SODIUM
3WAY	THREE-WAY	LRA	LOCKED ROTOR AMPS
4OUT	QUADRUPLE RECEPTACLE OUTLET	LTG	LIGHTING
4PDT	FOUR-POLE DOUBLE THROW	LV	LOW VOLTAGE
4PST	FOUR-POLE SINGLE THROW	MATV	MASTER ANTENNA TELEVISION SYSTEM
4W	FOUR-WIRE	MAX	MAXIMUM
4WAY	FOUR-WAY	MC	METAL CLAD
AC	ARMORED CABLE	MCA	MINIMUM CIRCUIT AMPS
ADA	AMERICANS WITH DISABILITIES ACT	MCB	MAIN CIRCUIT BREAKER
ADJ	ADJACENT	MCC	MOTOR CONTROL CENTER
AFF	ABOVE FINISHED FLOOR	MCP	MOTOR CIRCUIT PROTECTION
AFG	ABOVE FINISHED GRADE	MDP	MAIN DISTRIBUTION PANEL
AIC	AMPERE INTERRUPTING CAPACITY	MG	MOTOR GENERATOR
ALUM	ALUMINUM	MH	MANHOLE
AMP	AMPERE	MIN	MINIMUM
ANN	ANNUNCIATOR	MLO	MAIN LUGS ONLY
AR	AS REQUIRED	MOCP	MAXIMUM OVERCURRENT PROTECTION
ASC	AMPS SHORT CIRCUIT	NA	NOT APPLICABLE
ATS	AUTOMATIC TRANSFER SWITCH	NC	NORMALLY CLOSED
AV	AUDIO VISUAL	NEC	NATIONAL ELECTRICAL CODE
AWG	AMERICAN WIRE GAGE	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
BB XFMR	BUCK-BOOST TRANSFORMER	NFC	NATIONAL FIRE CODE
CATV	COMMUNITY ANTENNA TELEVISION	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
CB	CIRCUIT BREAKER	NIC	NOT IN CONTRACT
CCBA	CUSTOM COLOR AS SELECTED BY ARCHITECT	NL	NIGHT LIGHT
CCTV	CLOSED CIRCUIT TELEVISION	NO	NORMALLY OPEN
CFBA	CUSTOM FINISH AS SELECTED BY ARCHITECT	NTS	NOT TO SCALE
CF/CI	CONTRACTOR FURNISHED/ CONTRACTOR INSTALLED	OC	ON CENTER
CF/OI	CONTRACTOR FURNISHED/ OWNER INSTALLED	OCP	OVER CURRENT PROTECTION
CKT	CIRCUIT	OF/CI	OWNER FURNISHED/ CONTRACTOR INSTALLED
CM	CONSTRUCTION MANAGER	OF/OI	OWNER FURNISHED/ OWNER INSTALLED
CND	CONDUIT	OFP	OBTAIN FROM PLANS
CO	CONVENIENCE OUTLET	OH DR	OVERHEAD (COILING) DOOR
COR	CONTRACTING OFFICER'S REPRESENTATIVE	OL	OVERLOAD
CP	CONTROL PANEL	PB	PUSHBUTTON
CT	CURRENT TRANSFORMER	PF	POWER FACTOR
CTV	CABLE TELEVISION	PH	PHASE
CU	COPPER	PNL	PANEL
dBA	UNIT OF SOUND LEVEL	PT	POTENTIAL TRANSFORMER
DPDT	DOUBLE POLE DOUBLE THROW	QTY	QUANTITY
		R	REMOVE
DS	DISCONNECT SWITCH	RCP	REFLECTED CEILING PLAN
EA	EACH	RMC	RIGID METAL CONDUIT
EM	EMERGENCY	RNC	RIGID NONMETALLIC CONDUIT
EMT	ELECTRICAL METALLIC TUBING	RPM	REVOLUTIONS PER MINUTE
ENT	ELECTRICAL NONMETALLIC TUBING	RR	REMOVE AND RELOCATE
EPO	EMERGENCY POWER OFF	SCA	SHORT CIRCUIT AMPS
EQUIP	EQUIPMENT	SCBA	STANDARD COLOR AS SELECTED BY ARCHITECT
EXIST	EXISTING	SF	SQUARE FOOT (FEET)
FA	FIRE ALARM	SFBA	STANDARD FINISH AS SELECTED BY ARCHITECT
FCP	FIRE ALARM CONTROL PANEL	SPDT	SINGLE POLE, DOUBLE THROW
FLA	FULL LOAD AMPS	SPEC	SPECIFICATION
FMC	FLEXIBLE METAL CONDUIT	SPST	SINGLE POLE, SINGLE THROW
FOB	FREIGHT ON BOARD	S/S	START/STOP
FVNR	FULL VOLTAGE NON-REVERSING	ST	SINGLE THROW
FVR	FULL VOLTAGE REVERSING	SWBD	SWITCHBOARD
G	GROUND	SWGR	SWITCHGEAR
GEN	GENERATOR	TL	TWIST LOCK
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	TP	TELEPHONE POLE
GFP	GROUND FAULT PROTECTION	TP	TWISTED PAIR
HD	HEAVY DUTY	TTB	TELEPHONE TERMINAL BOARD
HID	HIGH INTENSITY DISCHARGE	TV	TELEVISION
HOA	HAND-OFF-AUTOMATIC	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSER
HP	HORSE POWER	TYP	TYPICAL
HPF	HIGH POWER FACTOR	UF	UNDERFLOOR
HPS	HIGH PRESSURE SODIUM	UGND	UNDERGROUND
HV	HIGH VOLTAGE	UPS	UNINTERRUPTIBLE POWER SUPPLY
Hz	HERTZ	V	VOLTS
IG	ISOLATED GROUND	VA	VOLT AMPERE
IMC	INTERMEDIATE METAL CONDUIT	VFC	VARIABLE FREQUENCY CONTROLLER
IN/IS	INSULATED/ISOLATED	W/	WITH
I/O	INPUT/OUTPUT	W/O	WITHOUT
IR	INFRARED	WP	WEATHERPROOF
kV	KILOVOLT	XFMR	TRANSFORMER
kVA	KILOVOLT AMPERE		

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SHEET INDEX, SYMBOL LEGEND, FIXTURE SCHEDULE

EE001

SHEET # OF #

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A1 ELECTRICAL SITE PLAN
SCALE: 1" = 20'-0"

SHEET KEYNOTES

1. RUN FEEDER UP TO PANEL IN EXISTING BUILDING. IF EXISTING TWO SPARE CIRCUIT BREAKERS, USE THOSE FOR NEW STORAGE. OTHERWISE PROVIDE NEW 20 AMP SINGLE POLE CIRCUIT BREAKERS FOR LIGHTING AND OUTLETS.
2. CONNECT TO LIGHTING AND POWER IN NEW BUILDING.

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ELECTRICAL
SITE PLAN

ES101

SHEET # OF #

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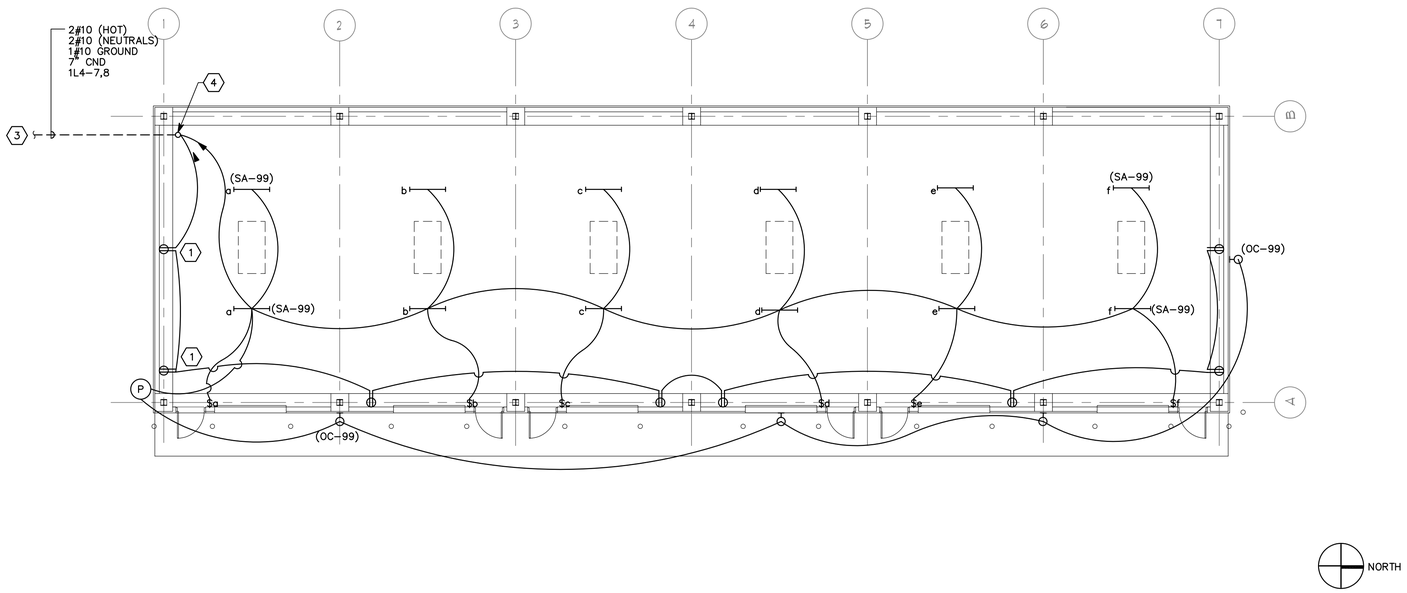

A1 ELECTRICAL PLAN

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

GENERAL ELECTRICAL NOTES

1. CLARIFICATION METHODS: AT THE TIME OF BIDDING, BIDDERS SHALL FAMILIARIZE THEMSELVES WITH THE DRAWINGS AND SPECIFICATIONS. ANY QUESTIONS, MISUNDERSTANDINGS, CONFLICTS, DELETIONS, DISCONTINUED PRODUCTS, CATALOG NUMBER DISCREPANCIES, DISCREPANCIES BETWEEN THE EQUIPMENT SUPPLIED AND THE INTENT OR FUNCTION OF THE EQUIPMENT, ETC, SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER IN WRITING FOR CLARIFICATION PRIOR TO ISSUANCE OF THE FINAL ADDENDUM AND BIDDING OF THE PROJECT. WHERE DISCREPANCIES OR MULTIPLE INTERPRETATIONS OCCUR, THE MOST STRINGENT (WHICH IS GENERALLY RECOGNIZED AS THE MOST COSTLY) THAT MEETS THE INTENT OF THE DOCUMENTS SHALL BE ENFORCED.

2. VISIT THE SITE PRIOR TO SUBMITTING BID TO BECOME FAMILIARIZED WITH EXISTING CONDITIONS AND ALL ASPECTS OF THE PROJECT. REPORT DISCREPANCIES TO ENGINEER FOR CLARIFICATION.

3. OWNER FURNISHED ITEMS: THE OWNER WILL FURNISH MATERIAL AND EQUIPMENT AS INDICATED IN THE CONTRACT DOCUMENTS TO BE INCORPORATED INTO THE WORK. THESE ITEMS ARE ASSIGNED TO THE INSTALLER AND COSTS FOR RECEIVING, HANDLING, STORAGE, IF REQUIRED, AND INSTALLATION ARE INCLUDED IN THE CONTRACT SUM.

   A. THE INSTALLER'S RESPONSIBILITIES ARE THE SAME AS IF THE INSTALLER FURNISHED THE MATERIALS OR EQUIPMENT.

   B. THE OWNER WILL ARRANGE AND PAY FOR DELIVERY OF OWNER FURNISHED ITEMS FREIGHT ON BOARD JOB SITE AND THE INSTALLER WILL INSPECT DELIVERIES FOR DAMAGE. IF OWNER FURNISHED ITEMS ARE DAMAGED, DEFECTIVE OR MISSING, DOCUMENT DAMAGED ITEMS WITH THE TRANSPORT COMPANY AND THE OWNER WILL ARRANGE FOR REPLACEMENT. THE OWNER WILL ALSO ARRANGE FOR MANUFACTURER'S FIELD SERVICES, AND THE DELIVERY OF MANUFACTURER'S WARRANTIES AND BONDS TO THE INSTALLER.

   C. THE INSTALLER IS RESPONSIBLE FOR DESIGNATING THE DELIVERY DATES OF OWNER FURNISHED ITEMS AND FOR RECEIVING, UNLOADING AND HANDLING OWNER FURNISHED ITEMS AT THE SITE. THE INSTALLER IS RESPONSIBLE FOR PROTECTING OWNER FURNISHED ITEMS FROM DAMAGE, INCLUDING DAMAGE FROM EXPOSURE TO THE ELEMENTS, AND TO REPAIR OR REPLACE ITEMS DAMAGED AS A RESULT OF HIS OPERATIONS.

4. EXPOSED STRUCTURE AREAS (EXCLUDING MECHANICAL, ELECTRICAL, AND COMMUNICATION SPACES): INSTALL RACEWAYS BETWEEN DECK AND STRUCTURE WHEREVER POSSIBLE IN EXPOSED STRUCTURE CEILING AREAS. ROUTE RACEWAYS IN CONCEALED AREAS WHEREVER POSSIBLE. REFER ALL CONDITIONS WHERE RACEWAYS MUST BE INSTALLED WHICH CANNOT COMPLY WITH THESE REQUIREMENTS TO THE ARCHITECT.

5. REFLECTED CEILING PLANS: COORDINATE THE LOCATION OF LIGHT FIXTURES WITH THE ARCHITECTURAL REFLECTED CEILING PLANS. REFER ALL DISCREPANCIES TO THE ARCHITECT AND ENGINEER.

⬡SHEET KEYNOTES

1. PENETRATE WALL TO GET CONDUIT FROM NEW BUILDING TO EXISTING BUILDING. CONDUIT SHALL BE 1" SCHEDULE 40 PVC BURIED 24" BELOW GRADE AND RISE UP IN NEW BUILDING.

2. DESIGNATE ONE CURCUIT FOR LIGHTING AND ONE CIRCUIT FOR RECEPTICLES.

3. UNDERGROUND FEED FROM EXISTING BUILDING.

4. WRAPPED RIGID 90-DEGREE ELBOW FROM UNDERGROUND FEED. EXTEND TO SURFACE MOUNTED JUNCTION BOX.

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ELECTRICAL PLAN

EP101

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