

Company Supply & Admin Headquarters Building Camp Clark Training Site Nevada, Missouri

ARCHITECT

Buddy Webb & Company
Architect - Consultant
3057 EAST CAIRO
SPRINGFIELD, MISSOURI 65802
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STRUCTURAL ENGINEER



JS Smith Consulting Engineers, P.C.
Missouri State Certificate of Authorization No. E2004026584
Aaron D. Smith P.E. E-2000150070 Jeffrey S. Smith P.E. E-17069
P.O. Box 8102 * JOPLIN, MISSOURI 64802
PHONE: 417-624-0444 * FAX: 417-624-0430

MECHANICAL / ELECTRICAL ENGINEER



Engineering | Energy | Innovation

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P: 417.877.1700 F: 417.324.7735 www.cjd-eng.com

OWNER:

STATE OF MISSOURI
MICHAEL L. PARSON,
GOVERNOR

DEPARTMENT OF
PUBLIC SAFETY
MISSOURI ARMY
NATIONAL GUARD

PROJECT

MANAGEMENT:

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES MANAGEMENT,
DESIGN AND CONSTRUCTION

DESIGNER:

Buddy Webb & Company, Inc.
Architect - Consultant

PROJECT NUMBER: T2016-01

SITE NUMBER: 6274

ASSET NUMBER: 8136274080

BUILDING NUMBER: 393



NOTE:
FOR ADDITIONAL PROJECT LOCATION MAPS REFER TO INDIVIDUAL ROOF PLAN DRAWINGS.

1
G-001

SITE LOCATION

N.T.S.



SHEET NUMBER:

G-001

1 OF 27 SHEETS
7/30/2020

SCOPE OF WORK SCHEDULE							
PROJECT MANUAL (CS) SECTION REF. NUMBER	SECTION NAME REFERENCE (SECTIONS OWNER FURNISHED AND INSTALLED NOT INCLUDED IN PROJECT MANUAL - FOR REFERENCE ONLY)	FURNISHED BY CONTRACTOR	INSTALLED BY CONTRACTOR	FURNISHED BY OWNER	INSTALLED BY OWNER	CONTACT INFORMATION	
						COMPANY & ADDRESS	POINT OF CONTACT, PHONE (P), CELL (C), OR EMAIL (E)
01 11 00	SUMMARY OF WORK GENERAL BUILDING PERMIT (NOT REQUIRED) STATE DEPARTMENT OF NATURAL RESOURCES PERMIT (NOT REQUIRED)			X		STATE OF MISSOURI OFFICE OF ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT DESIGN & CONSTRUCTION HARRY S TRUMAN STATE OFFICE BUILDING RM. 730 JEFFERSON CITY, MO 65102	CRAIG BOCK, PROJECT MANAGER (P): (573) 751-7831 (C): (573) 298-1967 (E): Craig.Bock@goa.mo.gov
01 11 00	SUMMARY OF WORK (ALL TRADE PERMITS, UTILITY IMPACT AND CONNECTION FEES, OR PERMITS AND FEES REQUIRED FOR PROJECT COMPLETION)	X				(TO BE DETERMINED)	(TO BE DETERMINED)
01 45 33	SPECIAL INSPECTIONS AND PROCEDURES (REFER TO SECTION FOR ADDITIONAL REQUIREMENTS)		X	X		ANDERSON ENGINEERING, INC. 811 EAST 3RD STREET JOPLIN, MISSOURI 64801	(TO BE DETERMINED) PHONE: (417) 782-7399
08 71 00	DOOR HARDWARE (LOCK CORES AND KEYS - CONTRACTOR TO SUBMIT LIST OF MATERIALS REQUIRED FOR OWNER TO SUBMIT ORDER TO HARDWARE MANUFACTURER, COST OF MATERIALS AND DELIVERY BY CONTRACTOR)	X	X			STATE OF MISSOURI DEPARTMENT OF PUBLIC SAFETY MISSOURI ARMY NATIONAL GUARD CONSTRUCTION AND FACILITIES MANAGEMENT OFFICE 6819 NORTH BOUNDARY ROAD JEFFERSON CITY, MISSOURI 65101	JEREMY NEWTON, DESIGN PROJECT MANAGER (P): (573) 638-9500, EXT. 37484 (C): (573) 690-1416 (E): jeremy.i.newton.nfg@mail.mil
10 28 13	TOILET ACCESSORIES (SOAP DISPENSERS)		X	X		STATE OF MISSOURI DEPARTMENT OF PUBLIC SAFETY MISSOURI ARMY NATIONAL GUARD CONSTRUCTION AND FACILITIES MANAGEMENT OFFICE 6819 NORTH BOUNDARY ROAD JEFFERSON CITY, MISSOURI 65101	JEREMY NEWTON, DESIGN PROJECT MANAGER (P): (573) 638-9500, EXT. 37484 (C): (573) 690-1416 (E): jeremy.i.newton.nfg@mail.mil
12 51 00	OFFICE FURNITURE (DESK, CHAIRS, FILE CABINETS, STORAGE SHELVING)			X	X	(TO BE DETERMINED)	OWNER'S DESIGNATED PROJECT MANAGER
25 00 00	INTERGRATED AUTOMATION (ENERGY MANAGEMENT SYSTEM - HARDWARE, CONDUIT, WIRING, EQUIPMENT, CELLULAR SERVICE CONTRACT)	X	X			PELICAN WIRELESS SYSTEMS	PELICAN WIRELESS SYSTEMS SANDERS SUPPLY SPRINGDALE, ARKANSAS 72762 (479) 750-2665
25 00 00	INTEGRATED AUTOMATION (ENERGY MANAGEMENT SYSTEM - COORDINATION TO EXISTING SITE SYSTEM)			X	X	STATE OF MISSOURI DEPARTMENT OF PUBLIC SAFETY MISSOURI ARMY NATIONAL GUARD CONSTRUCTION AND FACILITIES MANAGEMENT OFFICE 6819 NORTH BOUNDARY ROAD JEFFERSON CITY, MISSOURI 65101	JEREMY NEWTON, DESIGN PROJECT MANAGER (P): (573) 638-9500, EXT. 37484 (C): (573) 690-1416 (E): jeremy.i.newton.nfg@mail.mil
27 10 00	COMMUNICATIONS SYSTEMS STRUCTURED CABLING (CONDUIT, HARDWARE, WIRING, EQUIPMENT)	X	X			(TO BE DETERMINED)	OWNER'S DESIGNATED PROJECT MANAGER
27 10 00	COMMUNICATIONS SYSTEMS STRUCTURED CABLING (FIBER CABLING)			X	X	STATE OF MISSOURI DEPARTMENT OF PUBLIC SAFETY MISSOURI ARMY NATIONAL GUARD CONSTRUCTION AND FACILITIES MANAGEMENT OFFICE 6819 NORTH BOUNDARY ROAD JEFFERSON CITY, MISSOURI 65101	JEREMY NEWTON, DESIGN PROJECT MANAGER (P): (573) 638-9500, EXT. 37484 (C): (573) 690-1416 (E): jeremy.i.newton.nfg@mail.mil
28 00 00	ELECTRONIC SAFETY AND SECURITY SYSTEM (CONDUIT, HARDWARE, WIRING, EQUIPMENT)	X	X			(TO BE DETERMINED)	OWNER'S DESIGNATED PROJECT MANAGER
28 00 00	ELECTRONIC SAFETY AND SECURITY SYSTEM (SYSTEM AND MONITORING)			X	X	STATE OF MISSOURI DEPARTMENT OF PUBLIC SAFETY MISSOURI ARMY NATIONAL GUARD CONSTRUCTION AND FACILITIES MANAGEMENT OFFICE 6819 NORTH BOUNDARY ROAD JEFFERSON CITY, MISSOURI 65101	JEREMY NEWTON, DESIGN PROJECT MANAGER (P): (573) 638-9500, EXT. 37484 (C): (573) 690-1416 (E): jeremy.i.newton.nfg@mail.mil
28 46 00	FIRE DETECTION AND ALARM (HARDWARE, CONDUIT, WIRING, EQUIPMENT)	X	X			(TO BE DETERMINED)	(TO BE DETERMINED)
28 46 00	FIRE DETECTION AND ALARM (MONITORING)			X	X	STATE OF MISSOURI DEPARTMENT OF PUBLIC SAFETY MISSOURI ARMY NATIONAL GUARD CONSTRUCTION AND FACILITIES MANAGEMENT OFFICE 6819 NORTH BOUNDARY ROAD JEFFERSON CITY, MISSOURI 65101	AT PRIMARY GATE POST JEREMY NEWTON, DESIGN PROJECT MANAGER (P): (573) 638-9500, EXT. 33401 (C): (573) 690-1416 (E): jeremy.i.newton.nfg@mail.mil

SCOPE OF WORK SCHEDULE NOTES:
1. CONTRACTOR TO COORDINATE WORK SCHEDULE WITH OWNER FURNISHED MATERIALS.

SHEET INDEX

SHEET NO.	SHEET NAME
G-001	COVER SHEET
G-002	SHEET INDEX / SCOPE OF WORK
G-101	CODE ANALYSIS PLAN
C-101	SITE SURVEY
C-102	SITE DEVELOPMENT PLAN
C-103	SITE GRADING / EROSION CONTROL PLAN
C-104	SITE UTILITY PLAN
C-501	SITE DEVELOPMENT DETAILS
C-502	MISCELLANEOUS SITE DETAILS
S-001	STRUCTURAL NOTES
S-101	FOUNDATION PLAN
S-301	FOUNDATION DETAILS
A-101	FLOOR PLAN
A-102	ROOF PLAN
A-201	EXTERIOR ELEVATIONS
A-301	BUILDING SECTIONS
A-401	WALL SECTIONS
A-402	WALL SECTIONS
A-403	ENLARGED PLAN / INTERIOR ELEVATIONS
A-501	ROOFING DETAILS
A-601	DOOR AND WINDOW SCHEDULES
A-701	REFLECTED CEILING PLAN
I-101	INTERIOR FINISH PLAN
P-101	PLUMBING PLANS AND SCHEDULES
M-101	MECHANICAL PLAN AND SCHEDULES
E-101	ELECTRICAL AND FIRE ALARM SYSTEMS PLANS
E-601	ELECTRICAL SCHEDULES AND DIAGRAMS

GENERAL NOTES

- (A) REFER TO PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS.
- (B) THE ARCHITECT AND ENGINEER'S RESPONSIBILITY IS ONLY FOR THE INFORMATION INCLUDED WITHIN THE CONSTRUCTION DOCUMENTS. ALL OTHER DOCUMENTS AND INSTRUMENTS REQUIRED FOR COMPLETION OF THE PROJECT SHALL BE THE RESPONSIBILITY OF OTHERS AND ARE HEREBY DISCLAIMED.
- (C) QUALITY STANDARD AND BUILDING CODE - ALL CONTRACTORS SHALL BE RESPONSIBLE FOR KNOWING THE QUALITY AND PUBLIC SAFETY REGULATIONS SET FORTH IN THE GOVERNING CODES AND OTHER APPLICABLE REGULATIONS OF LOCAL AND STATE AGENCIES HAVING JURISDICTION WHICH GOVERN EACH CONTRACTOR'S WORK.
- (D) THE ARCHITECT AND ENGINEER IS NOT RESPONSIBLE FOR FIELD ACTIVITIES ON THIS PROJECT WITHOUT DIRECT INSPECTION OF THE WORK IN PROGRESS. IF FIELD CONDITIONS ARE UNCOVERED THAT REQUIRE A CHANGE OR ADDITIONAL INFORMATION, THE ARCHITECT AND ENGINEER DOES NOT DELEGATE THEIR AUTHORITY TO ANYONE ELSE FOR DETERMINING THE MEANING OF THEIR PLANS OR SPECIFICATIONS.
- (E) FIELD VERIFY EXISTING CONDITIONS BY DETAILED INSPECTION PRIOR TO SUBMITTING BID AND BEGINNING WORK. NOTIFY ARCHITECT AND ENGINEER IF EXISTING CONDITIONS DEVIATE SUBSTANTIALLY FROM THOSE INDICATED HEREIN.

STATE OF MISSOURI
MICHAEL L. PARSON,
GOVERNOR

ARCHITECTURAL FIRM REGISTRATION NO.:
ARC 2004028947



SHEETS BEARING THIS SEAL ARE AUTHENTICATED.
RESPONSIBILITY FOR ALL OTHER PLANS,
SPECIFICATIONS OR INSTRUMENTS ARE DISCLAIMED.

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Architect - Consultant

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DESIGN AND CONSTRUCTION

DEPARTMENT OF
PUBLIC SAFETY
MISSOURI ARMY
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DESIGN & CONSTRUCT
COMPANY SUPPLY &
ADMIN HEADQUARTERS
BUILDING

CAMP CLARK
TRAINING SITE
18159 SOUTH K HIGHWAY
NEVADA, MISSOURI

PROJECT # T2016-01
SITE # 6274
ASSET # 8136274080
BUILDING # 393

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
ISSUE DATE: 07/30/2020

CAD DWG FILE: 6274-8136274080-G-002
DRAWN BY: BW-AP
CHECKED BY: BDW
DESIGNED BY: BW-AP

SHEET TITLE:

SHEET INDEX /
SCOPE OF WORK
SCHEDULE

SHEET NUMBER:

G-002

2 OF 27 SHEETS
07/30/2020



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REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
ISSUE DATE: 07/30/2020

CAD DWG FILE: 6274-8136274080-G-101
DRAWN BY: BW-AP
CHECKED BY: BDW
DESIGNED BY: BW-AP

SHEET TITLE:

CODE ANALYSIS
PLAN

SHEET NUMBER:

G-101

3 OF 27 SHEETS
07/30/2020

BUILDING CODE

JURISDICTION: MISSOURI OFFICE OF ADMINISTRATION - FACILITIES MANAGEMENT, DESIGN & CONSTRUCTION

CITY: NEVADA, MISSOURI
COUNTY: VERNON
ZIP CODE: 64772

GOVERNING CODES AND STANDARDS
BUILDING CODE: 2015 IBC
PLUMBING CODE: 2015 IPC
MECHANICAL CODE: 2015 IMC
ELECTRICAL CODE: 2014 NEC
FIRE CODE: 2015 IFC
FUEL / GAS CODE: 2015 IFGC
ENERGY CODE: 2015 IECC
STORM SHELTERS: 2014 ICC 500
ACCESSIBILITY CODES: 2009 ICC A117.1, 2010 ADA

USE GROUP & CONSTRUCTION TYPE
PRIMARY USE GROUP: B (BUSINESS)
SECONDARY USE GROUP: S-2 (STORAGE)
MIXED USE AND OCCUPANCY: SEPARATED
CONSTRUCTION TYPE: II-B (NON-COMBUSTIBLE / UNPROTECTED)

AREA MODIFICATIONS
FRONTAGE INCREASE: NOT APPLIED
AUTOMATIC SPRINKLER INCREASE: PROVIDED

ALLOWABLE BUILDING HEIGHT & AREA
HEIGHT (S): 75'-0"
NUMBER OF STORIES (S): 4 STORIES
AREA (S1): 92,000 SQ. FT.

ACTUAL BUILDING HEIGHT & AREA
HEIGHT: 16'-8" (APPROX.)
NO. OF STORIES: 1 STORY
AREA: 2,992 SQ. FT.

FIRE PROTECTION SYSTEMS
AUTOMATIC SPRINKLER SYSTEM: NOT REQUIRED (ALTERNATE NO. 3)
PORTABLE FIRE EXTINGUISHERS: REQUIRED
MANUAL FIRE ALARM SYSTEM: NOT REQUIRED
AUTOMATIC FIRE DETECTION SYSTEM: NOT REQUIRED (ALTERNATE NO. 3)

STRUCTURAL DESIGN
(REFER TO STRUCTURAL DRAWINGS)

1. ROOF LIVE LOAD (NON-REDUCIBLE)	100 PSF
2. ROOF COLLATERAL LOADS	
A. ARCHITECTURAL / MECHANICAL	2.5 PSF
B. SUSPENDED ACOUSTICAL CEILING SYSTEM LOAD (WHERE OCCURS):	2.0 PSF
3. SNOW LOADS Ce = 1.0 Ct = 1.0	20 PSF
GROUND LOAD (Pg)	20 PSF
MINIMUM ROOF SNOW LOAD (Pr):	20 PSF
IMPORTANCE FACTOR (Is):	1.0
4. WIND LOADS Gcpi = ± 0.55	
BASIC WIND SPEED:	V _{br} = 250 MPH V _{ult} = 193.6 MPH
EXPOSURE:	C
Gcpi:	±0.55
Kzt:	1.0
Kd:	0.85
5. SEISMIC	
Ss:	0.124
S1:	0.077
Sds:	0.132
Sd1:	0.123
IMPORTANCE FACTOR (Ie):	1.0
SITE CLASS:	D
DESIGN CATEGORY:	B

COMMERCIAL ENERGY EFFICIENCY CODE
COMPLIANCE WITH BUILDING ENERGY EFFICIENCY REQUIREMENTS BASED UPON APPLICABLE ENERGY CODE (PERFORMANCE METHOD).

CERTIFICATE OF COMPLIANCE AND CALCULATIONS PROVIDED UNDER SEPARATE COVER.

PLUMBING FIXTURE SUMMARY

GENERAL
IPC TABLE 403.1
PRIMARY OCCUPANCY: B (BUSINESS)
TOTAL OCCUPANCY: 15

IPC 403.2 (EXCEPTION 2): SEPARATE SEX FACILITIES NOT REQUIRED WHERE TOTAL OCCUPANT LOAD 15 OR LESS.

PLUMBING FIXTURES

WATER CLOSETS (URINALS):	1 PER 25
REQUIRED:	15 / 25 = 1
PROVIDED:	1
LAVATORIES:	1 PER 40
REQUIRED:	15 / 40 = 1
PROVIDED:	1
DRINKING FOUNTAINS:	1 PER 100
REQUIRED:	15 / 100 = 1
PROVIDED:	2
SERVICE SINK REQUIRED:	1
SERVICE SINK PROVIDED:	1

GENERAL NOTES

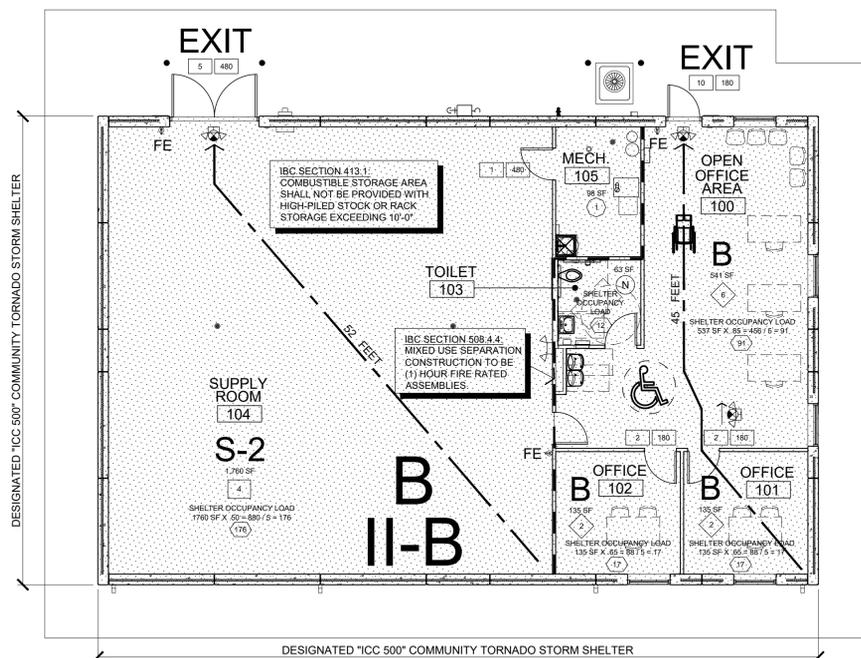
- (A) REFER TO PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS.
- (B) REFER TO PLANS, SECTIONS, AND DETAILS FOR CONSTRUCTION OF FIRE RATED ASSEMBLIES. WHERE UNDERWRITERS LABORATORY (UL) TEST NUMBERS ARE REFERENCED, CONTRACTOR SHALL PROVIDE CONSTRUCTION MATERIALS, MEANS AND METHODS TO COMPLY WITH TESTED ASSEMBLY.
- (C) REFER TO FIRE ALARM, MECHANICAL, AND ELECTRICAL DRAWINGS FOR ADDITIONAL REQUIREMENTS.
- (D) OWNER FURNISHED AND INSTALLED FURNISHINGS AND FIXTURES SHOWN FOR REFERENCE ONLY.
- (E) CONTRACTOR TO PROVIDE PORTABLE FIRE EXTINGUISHERS DURING CONSTRUCTION AS REQUIRED TO PROTECT THE WORK AREA AND EACH STORAGE UNIT AND JOB TRAILER PER THE FIRE CODE.
- (F) SURFACE MOUNTED PORTABLE FIRE EXTINGUISHERS SHALL BE UL LISTED ABC TYPE, WITH 10 LBS. CAPACITY.
- (G) EXIT DISCHARGE DOORS, PROVIDE TACTILE EXIT SIGNS STATING "EXIT" WITH BRILLE LETTERING. SIGN AND MOUNTING TO COMPLY WITH ANSI A117.1. REFER TO FLOOR PLAN FOR LOCATIONS.

SPECIAL INSPECTIONS

- NOTES:
- REFER TO PROJECT MANUAL - SECTION 01 45 33 SPECIAL INSPECTIONS AND PROCEDURES FOR REQUIREMENTS.
 - THE OWNER SHALL PROVIDE THE SERVICES OF AN INDEPENDENT TESTING LABORATORY TO PERFORM TESTING AND SPECIAL INSPECTIONS UNLESS OTHERWISE INDICATED.

SYMBOLS LEGEND

- B** PRIMARY USE GROUP: (BUSINESS)
- II-B** CONSTRUCTION TYPE: (NON-COMBUSTIBLE/UNPROTECTED)
- 325 SF** ROOM SQUARE FOOTAGE:
- DESIGN OCCUPANT LOAD SERVED BY EXIT: MAXIMUM ALLOWABLE CAPACITY: (EXAMPLE: 36*10.20 = 180)
- (N)** OCCUPANT LOAD SERVED BY EXIT BUT NOT COUNTED IN TOTAL OCCUPANT LOAD:
- (1) HOUR FIRE RATED ASSEMBLY EXTENDS UP TO DECK, FIRE SEAL COMPLETELY:
- U** ROOM OCCUPANT LOAD NOT COUNTED IN:
- ROOM OCCUPANT LOAD AT 100 SQ. FT. GROSS PER PERSON:
- ROOM OCCUPANT LOAD AT 300 SQ. FT GROSS PER PERSON:
- ROOM OCCUPANT LOAD AT 500 SQ. FT GROSS PER PERSON:
- EMERGENCY EXIT LIGHTING
- EMERGENCY LIGHTING
- FE** FIRE EXTINGUISHER (SURFACE MOUNTED WITH BRACKET)
- DESIGNATED STORM SHELTER AREA
- EXIT ACCESS TRAVEL DISTANCE (LENGTH IN FEET)
- ACCESSIBLE CLEAR FLOOR AREA



1 CODE ANALYSIS PLAN

G-101 1/8" = 1'-0"

SAFE ROOM USABLE FLOOR AREA SUMMARY

ROOM OR AREA (REFER TO FLOOR PLAN)	AREA PER OCCUPANT(S.F.)	OCCUPANTS (QTY.)
100 - OPEN OFFICE AREA	5.95	91
101 - OFFICE	7.95	17
102 - OFFICE	7.95	17
103 - TOILET	0	0
104 - SUPPLY ROOM	10	176
105 - MECHANICAL	0	0
TOTAL OCCUPANCY		301

SPECIAL NOTE (ICC 500 SECTION 501.1.2.1):
ICC 500 STORM SHELTER OCCUPANCY LOAD CAPACITY 313 TOTAL.

OCCUPANCY LOAD SUMMARY

ROOM OR AREA (REFER TO FLOOR PLAN)	AREA PER OCCUPANT(S.F.)	OCCUPANTS (QTY.)
100 - OPEN OFFICE AREA	100	6
101 - OFFICE	100	2
102 - OFFICE	100	2
103 - TOILET	N/A	0
104 - SUPPLY ROOM	500	4
105 - MECHANICAL	300	1
TOTAL OCCUPANCY		15

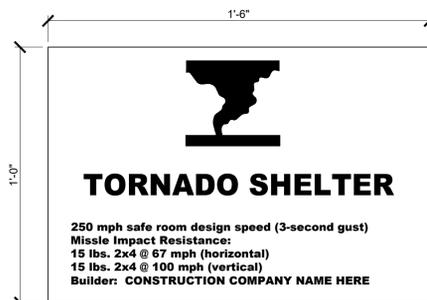
PLUMBING FIXTURE SUMMARY

GENERAL
IPC TABLE 403.1
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IPC 403.2 (EXCEPTION 2): SEPARATE SEX FACILITIES NOT REQUIRED WHERE TOTAL OCCUPANT LOAD 15 OR LESS.

PLUMBING FIXTURES

WATER CLOSETS (URINALS):	1 PER 25
REQUIRED:	15 / 25 = 1
PROVIDED:	1
LAVATORIES:	1 PER 40
REQUIRED:	15 / 40 = 1
PROVIDED:	1
DRINKING FOUNTAINS:	1 PER 100
REQUIRED:	15 / 100 = 1
PROVIDED:	2
SERVICE SINK REQUIRED:	1
SERVICE SINK PROVIDED:	1



TORNADO SHELTER

250 mph safe room design speed (3-second gust)
Missile Impact Resistance:
15 lbs. 2x4 @ 67 mph (horizontal)
15 lbs. 2x4 @ 100 mph (vertical)
Builder: CONSTRUCTION COMPANY NAME HERE

NOTE:
ICC 500 COMMUNITY STORM SHELTER SIGN INDICATING "TORNADO SHELTER". SIGN CONSTRUCTION AND LOCATION TO COMPLY WITH ICC A117.1. MOUNT 60" ABOVE THE FINISHED FLOOR TO THE CENTER OF THE SIGN, MECHANICALLY ATTACH TO SUBSTRATE.

1 SIGN DETAIL

G-101 3" = 1'-0"



ENGINEERS SURVEYORS LABORATORIES DRILLING GIS
811 E. 3RD STREET JOPLIN, MISSOURI 64801 PHONE (417) 782-7399
ANDERSON CO.# 00062 AARON T. HARGRAVE PE-200702074

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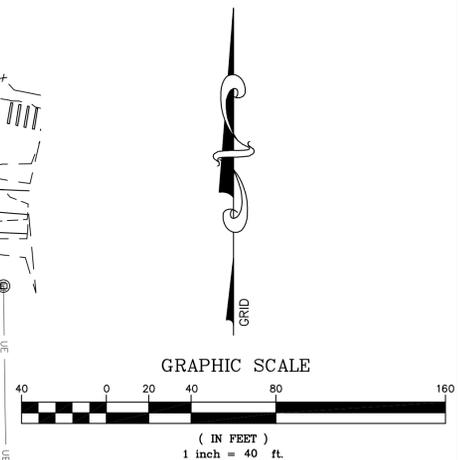
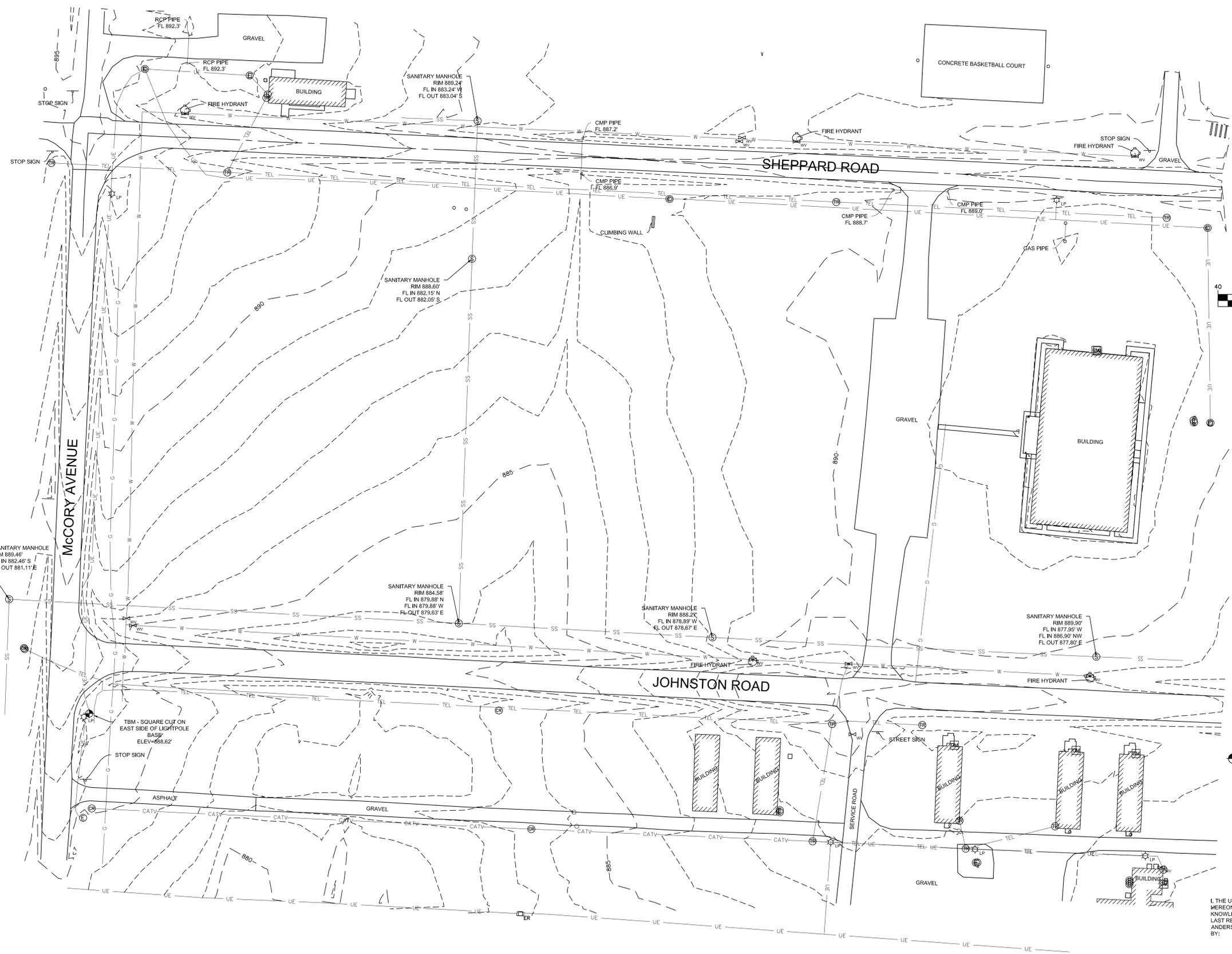
CAD DWG FILE: _____
DRAWN BY: SLM
CHECKED BY: GBB
DESIGNED BY: _____

SHEET TITLE:
SITE
SURVEY

SHEET NUMBER:

C101

4 OF 27 SHEETS
07/30/2020



LEGEND

	MANHOLE	SS
	LIGHT POLE	
	SIGN	
	WATER VALVE	
	CABLE RISER	
	TELEPHONE RISER	
	ELECTRIC RISER	
	GAS METER	
	SEWER CLEANOUT	
	BUMPER POST	
	FIRE HYDRANT	
SS	SANITARY SEWER	SS
W	WATER LINE	W
TEL	TELEPHONE LINE	TEL
G	GAS LINE	G
OHE	ELECTRIC LINE	OHE
UE	UNDERGROUND ELECTRIC	UE
CATV	CABLE TV LINE	CATV

NOTES

- ELEVATIONS ARE NAVD83 DERIVED FROM THE MISSOURI DEPARTMENT OF TRANSPORTATION'S VRS NETWORK.
- THIS SURVEYOR HAS MADE NO INVESTIGATION OR INDEPENDENT SEARCH FOR EASEMENTS OF RECORD, ENCUMBRANCES, RESTRICTIVE COVENANTS, OWNERSHIP TITLE EVIDENCE, OR ANY OTHER FACTS THAT AN ACCURATE AND CURRENT TITLE SEARCH MAY DISCLOSE.

BENCHMARK

TBM IS A "SQUARE CUT" IN THE TOP OF A CONCRETE LIGHT POLE AT THE SOUTHEAST CORNER OF McCORY AVENUE AND JOHNSTON ROAD, WITH AN ELEVATION OF 888.62 FEET AS SHOWN.

SURVEYOR'S DECLARATION

I, THE UNDERSIGNED, DO HEREBY DECLARE THAT THE TOPOGRAPHIC SURVEY SHOWN HEREON WAS MADE UNDER MY DIRECT SUPERVISION AND TO THE BEST OF MY KNOWLEDGE THE INFORMATION IS AS SHOWN.
LAST REVISION DATE: JULY 30, 2020
ANDERSON ENGINEERING, INC. L.C. 62
BY: _____

Gregory B. Bowers
GREGORY B. BOWERS, P.L.S. 2672





SHEETS BEARING THIS SEAL ARE AUTHENTICATED.
RESPONSIBILITY FOR ALL OTHER PLANS,
SPECIFICATIONS OR INSTRUMENTS ARE DISCLAIMED.

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Architect - Consultant
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PROJECT # T2016-01
SITE # 6274
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REVISION: _____
DATE: _____
REVISION: _____
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REVISION: _____
DATE: _____
ISSUE DATE: 07/30/2020

CAD DWG FILE: 6274-8136274080-C-102
DRAWN BY: BW-AP
CHECKED BY: BDW
DESIGNED BY: BW-AP

SHEET TITLE:

SITE
DEVELOPMENT
PLAN

SHEET NUMBER:

C-102

5 OF 27 SHEETS
07/30/2020

GENERAL NOTES

- A REFER TO PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS.
- B SITE CONDITIONS BASED UPON SURVEY. FIELD VERIFY EXISTING CONDITIONS BY DETAILED INSPECTION PRIOR TO SUBMITTING BID AND BEGINNING CONSTRUCTION. NOTIFY ARCHITECT IF EXISTING CONDITIONS DEVIATE SUBSTANTIALLY FROM THOSE INDICATED HEREIN.
- C SITE DIMENSIONS TO FACE OF CONCRETE FOUNDATION, SIDEWALK, CURB GUTTER LINE, PROPERTY LINE, OR CENTER LINE OF STRIPING UNLESS OTHERWISE NOTED. REFER TO ARCHITECTURAL DRAWINGS FOR BUILDING LAYOUT DIMENSIONS.
- D PROVIDE SITE CLEARING AND PREPARATION, INCLUDING TOPSOIL STRIPPING AND STOCKPILING.
- E ALL DEMOLITION MATERIALS SHALL BECOME PROPERTY OF CONTRACTOR FOR PROPER DISPOSAL UNLESS OTHERWISE NOTED.
- F EXISTING CONSTRUCTION TO REMAIN TO BE PROTECTED AS REQUIRED. REPLACE AND/OR REPAIR EXISTING CONSTRUCTION DAMAGED DUE TO CONTRACTOR ACTIVITIES.
- G COORDINATE WORK WITH OTHER SITE RELATED DEVELOPMENT DRAWINGS.
- H CONTRACTOR TO COORDINATE AND SCHEDULE DESIGNATED PARKING AND STAGING AREAS WITH OWNER.
- I LAWN AREAS DISTURBED BY CONSTRUCTION ACTIVITIES SHALL BE PROVIDED WITH 4" APPROVED TOPSOIL, FINE GRADED, AND SEED. PROVIDE EROSION CONTROL FABRIC EXTENDING 48" MINIMUM BEYOND EACH SIDE OF CENTERLINE OF DRAINAGE CHANNELS AND WHERE GRADE SLOPES 4:12 OR GREATER.
- J REFER TO CIVIL SITE GRADING PLAN FOR SLOPE REQUIREMENTS.

KEY NOTES

- 1 CONCRETE PAVEMENT, REFER TO DETAIL 2/C-501.
- 2 CONCRETE SIDEWALK, REFER TO DETAIL 3/C-501.
- 3 ACCESSIBLE PARKING PAVEMENT STRIPPING SYMBOL, REFER TO DETAIL 4/C-501. ALIGN WITH END OF PARKING SPACE.
- 4 AREA OF DRIVE GRAVEL, REFER TO DETAIL 1/C-501.
- 5 ACCESSIBLE PARKING SPACE WITH ACCESS AISLE (ADA COMPLIANT) TO SLOPE 2% MAXIMUM IN ALL DIRECTIONS. PROVIDE PAVEMENT, REFER TO DETAIL 3/A-501.
- 6 4" WIDE PAVEMENT STRIPING AS SHOWN USING HIGHWAY MARKING PAINT - WHITE (2 COATS).
- 7 EXISTING GRAVEL DRIVE TO BE REMOVED AS REQUIRED FOR INSTALLATION OF NEW CONSTRUCTION.
- 8 CONCRETE BUMPER BLOCK (8" W X 5" H X 6'-0" LONG) ANCHORED TO PAVING WITH (2) 1"-5" LONG #4 REBAR.
- 9 PARKING LOT LIGHTING ON BUILDING, REFER TO ELECTRICAL DRAWINGS FOR TYPE AND CONSTRUCTION.
- 10 STEEL BOLLARD, REFER TO DETAIL 6/C-501. PROVIDE (2) AT MECHANICAL CONDENSING UNIT LOCATION AND (2) AT DELIVER DOOR ALIGNED WITH JAMBS (4 TOTAL).
- 11 SAW CUT EXISTING ASPHALT TO PREPARE FOR NEW GRAVEL DRIVE AREA.
- 12 EXISTING ASPHALT TO BE REMOVED AND DISCARDED AS REQUIRED FOR INSTALLATION OF NEW CONSTRUCTION.
- 13 EXISTING PAVING CONSTRUCTION TO BE SAW CUT, REMOVED AND REPLACE WITH NEW CONCRETE PAVING AS REQUIRED FOR INSTALLATION OF NEW UTILITIES. REFER SITE UTILITY PLAN FOR ADDITIONAL REQUIREMENTS. PROVIDE NEW CONCRETE PAVING PER DETAIL 2/C-501.
- 14 ACCESSIBLE PARKING SYMBOL ATTACHED TO BUILDING, REFER TO DETAIL 5/C-501.

NOTE:
REFER TO PROJECT MANUAL FOR
ALTERNATE #1 WHICH REFERENCES
THE CONCRETE PAVING OPTIONS AT
HANDICAP PARKING AREA AND
GRAVEL OPTION.

SYMBOLS LEGEND

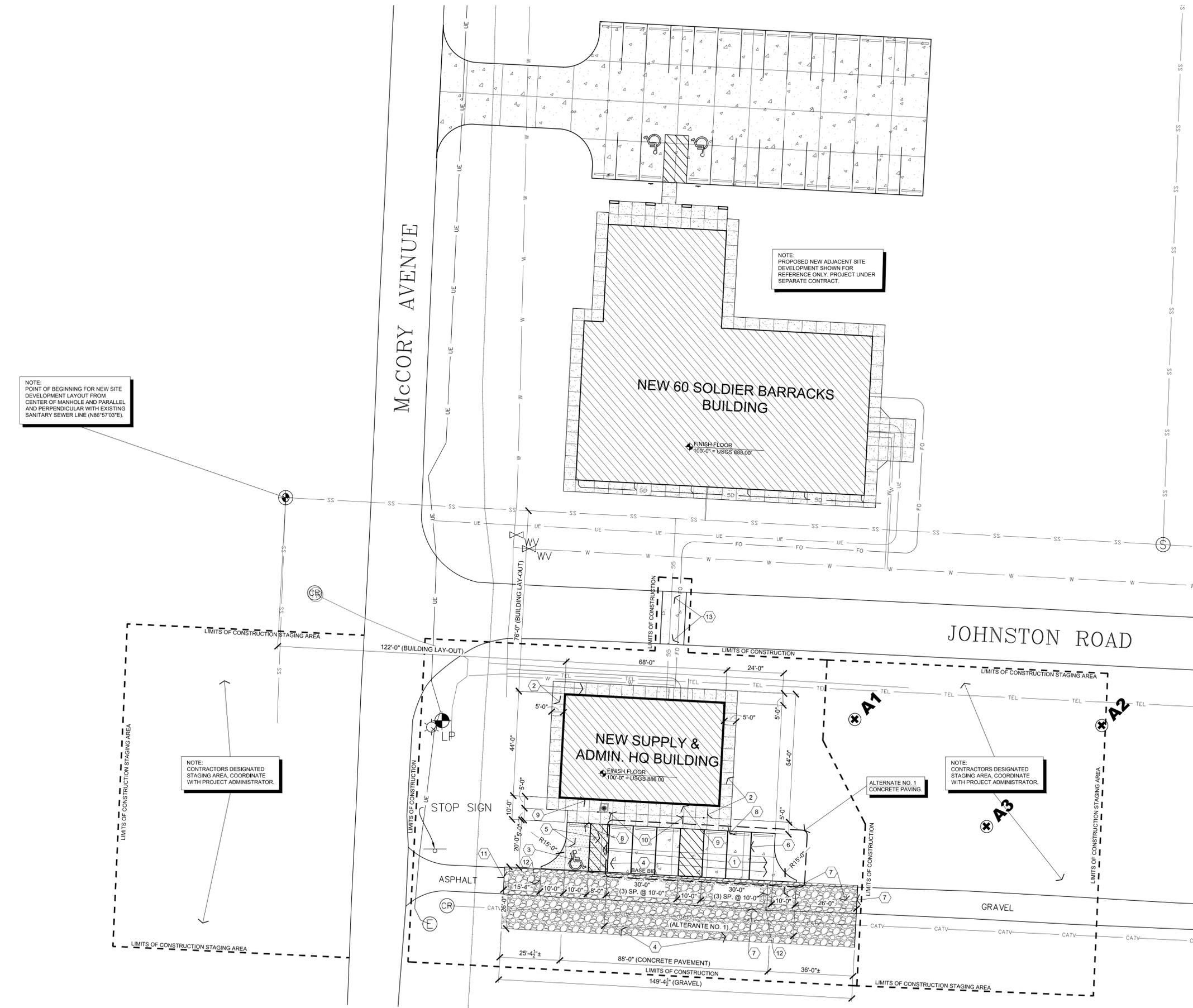
NOTE: REFER TO SURVEY FOR EXISTING CONDITIONS SYMBOLS LEGEND.

- NEW BUILDING CONSTRUCTION
- NEW AREA OF CONCRETE PAVING
- NEW AREA OF CONCRETE SIDEWALK
- NEW DRIVE GRAVEL AREA
- BORING LOCATION - REFER TO GEOTECH REPORT

CAUTION:
INFORMATION ON THIS DRAWING
CONCERNING TYPE AND LOCATION
OF UNDERGROUND AND OTHER
UTILITIES IS NOT GUARANTEED TO
BE ACCURATE OR ALL INCLUSIVE.
THE CONTRACTOR IS RESPONSIBLE
FOR MAKING HIS OWN
DETERMINATION AS TO THE TYPE
AND LOCATION OF UNDERGROUND
AND OTHER UTILITIES AS MAY BE
NECESSARY TO AVOID DAMAGE
THERE TO.



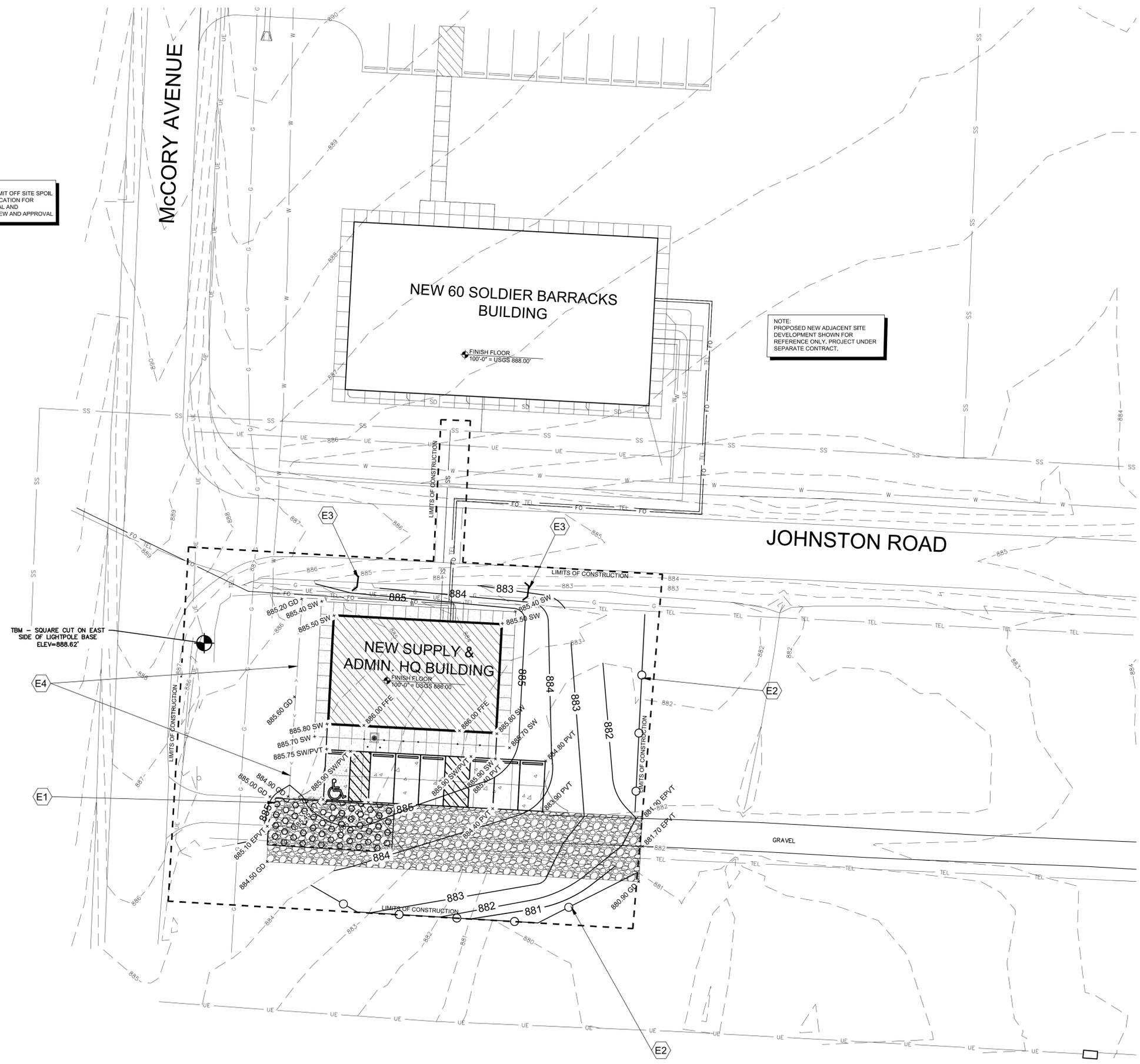
Know what's below
Call before you dig.



1 SITE DEVELOPMENT PLAN
C-102 1"=20'-0"



NOTE:
CONTRACTOR TO SUBMIT OFF SITE SPOIL
OR BORROW SOILS LOCATION FOR
STATE'S GEOTECHNICAL AND
ENVIRONMENTAL REVIEW AND APPROVAL



NOTE:
PROPOSED NEW ADJACENT SITE
DEVELOPMENT SHOWN FOR
REFERENCE ONLY. PROJECT UNDER
SEPARATE CONTRACT.

TBM - SQUARE CUT ON EAST
SIDE OF LIGHTPOLE BASE
ELEV=886.62

GENERAL NOTES

- (A) REFER TO PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS.
- (B) COORDINATE WORK WITH OTHER SITE RELATED DEVELOPMENT DRAWINGS.
- (C) FIELD VERIFY SANITARY SEWER CONNECTION INVERT PRIOR TO ESTABLISHING FINAL FINISH FLOOR ELEVATION. NOTIFY ENGINEER IF EXISTING CONDITIONS REQUIRE REVISED FINISH FLOOR ELEVATION TO PROVIDE PROPER DRAINAGE.
- (D) ACCESSIBLE PARKING AREAS TO SLOPE 2% MAXIMUM IN ALL DIRECTIONS. DESIGNATED ACCESSIBLE ROUTES TO SLOPE 5% MAXIMUM IN DIRECTION OF TRAFFIC WITH 2% MAXIMUM CROSS SLOPE.

KEY NOTES

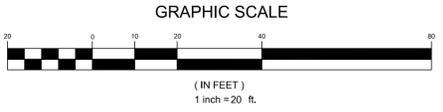
- (E1) CONSTRUCTION ENTRANCE, REFER TO DETAIL ON C502
- (E2) SILT FENCE, REFER TO DETAIL ON C502
- (E3) DITCH CHECKS, REFER TO DETAIL ON C502
- (E4) GRASS SWALE TO DRAIN TOWARDS LOW POINT INDICATED ON DRAWING

SITE EXCAVATION REQUIREMENTS

- (E) A GEOTECHNICAL INVESTIGATION WAS CONDUCTED FOR THE STREETS WITHIN THIS DEVELOPMENT. A GEOTECHNICAL INVESTIGATION REPORT WAS ISSUED MAY 8, 2020 TITLED EXP-NEW BARRACKS AT CAMP CLARK - NEVADA, MO, AE PROJECT # 20J010026, MISSOURI STATE PROJECT #2017-01. THIS GEOTECHNICAL INVESTIGATION REPORT SHOULD BE CONSIDERED AN INTEGRAL PART OF THESE CONTRACT DOCUMENTS. CONTRACTORS WILL BE RESPONSIBLE FOR OBTAINING, REVIEWING, AND UNDERSTANDING THE GEOTECHNICAL INVESTIGATION REPORT. CONTRACTORS WILL BE EXPECTED TO FOLLOW THE RECOMMENDATIONS MADE WITHIN THE GEOTECHNICAL INVESTIGATION REPORT, THE REQUIREMENTS OF THE CITY OF NEVADA SPECIFICATIONS, AND THE NOTES AND DETAILS OF THE DRAWINGS, WHICHEVER IS MOST STRINGENT.
- (F) IF MORE THAN ONE ACRE IS BEING DISTURBED THE CONTRACTOR WILL BE RESPONSIBLE FOR OBTAINING A LAND DISTURBANCE PERMIT FROM THE MISSOURI DEPARTMENT OF NATURAL RESOURCES.

SYMBOLS LEGEND

- NOTE: REFER TO SURVEY FOR EXISTING CONDITIONS SYMBOLS LEGEND.
- NEW BUILDING CONSTRUCTION
 - NEW AREA OF CONCRETE PAVING
 - NEW AREA OF CONCRETE SIDEWALK
 - RIPRAP PAD
 - CONSTRUCTION ENTRANCE
 - SILT FENCE
 - DITCH CHECKS



CAUTION:
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AND OTHER UTILITIES AS MAY BE
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THERE TO.



SHEETS BEARING THIS SEAL ARE AUTHENTICATED.
RESPONSIBILITY FOR ALL OTHER PLANS,
SPECIFICATIONS OR INSTRUMENTS ARE DISCLAIMED.

ANDERSON ENGINEERING
EMPLOYEE OWNED
ENGINEERS • SURVEYORS • LABORATORIES • DRILLING
321 S. ANDERSON COW BOULEVARD • WARREN, MISSOURI 64692
PHONE: (417) 882-7411
FAX: (417) 882-7411
PROJECT # 20J010026

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSTRUCTION

DEPARTMENT OF
PUBLIC SAFETY
MISSOURI ARMY
NATIONAL GUARD

DESIGN & CONSTRUCT
COMPANY SUPPLY &
ADMIN HEADQUARTERS
BUILDING
CAMP CLARK
TRAINING SITE
18159 SOUTH K HIGHWAY
NEVADA, MISSOURI

PROJECT # T2016-01
SITE # 6274
ASSET# 8136274080
BUILDING# 393

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
ISSUE DATE: 7/30/2020

CAD DWG FILE: 6274-8136274080-C-103
DRAWN BY: RN
CHECKED BY: AH
DESIGNED BY: _____

SHEET TITLE:
SITE GRADING/
EROSION CONTROL

SHEET NUMBER:
C-103
06 OF 27 SHEETS
07/30/2020

SPECIAL NOTE:
ANY BELOW-GRADE UTILITIES ENTERING THE BUILDING SHOULD HAVE CLAY STOPS PLACED AROUND THE UTILITY TO REDUCE WATER IN THE UTILITY TRENCH BACKFILL FROM ENTERING BELOW THE FOOTING AND/OR SLAB CAUSING SWELLING.

SPECIAL NOTE:
CONTRACTOR IS RESPONSIBLE FOR ALL PUBLIC UTILITY CONNECTIONS (ELECTRIC, WATER, GAS, SEPTIC, SEWER) AS WELL AS PROVIDING ALL INFRASTRUCTURE REQUIRED BY UTILITY COMPANIES.

NOTE:
CONTRACTORS DESIGNATED STAGING AREA, COORDINATE WITH PROJECT COORDINATOR.

**CONTRACTOR CAUTION!!
VERIFY SEWER LINE ELEVATION**

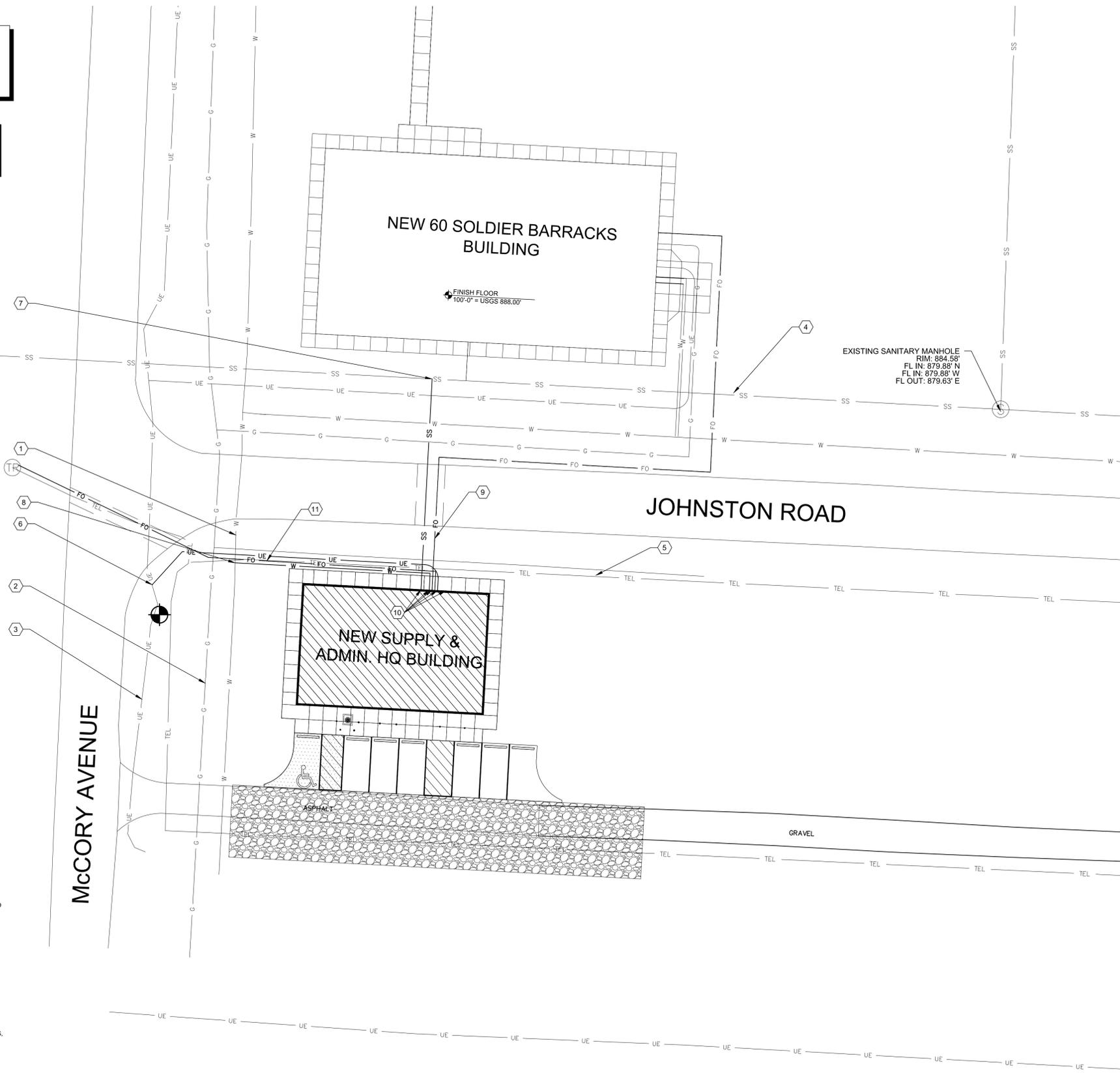
BEFORE STARTING ANY BUILDING PAD GRADING AND PLUMBING WORK THE CONTRACTOR SHALL FIELD VERIFY LOCATION, MATERIAL, CONDITION, ACCESSIBILITY (INCLUDING STATE HIGHWAY OR OTHER RIGHTS-OF-WAY) AND WORKABLE FLOW LINE ELEVATION OF THE EXISTING SANITARY SEWER SERVICE LINE OR MAIN.

IF A WORKABLE FLOW LINE HAS NOT BEEN ESTABLISHED AT THE TIME OF FINAL SANITARY SEWER SERVICE CONNECTION, THEN THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXPENSES ASSOCIATED WITH THE INSTALLATION OF A NEW GRINDER PUMP SYSTEM TO MEET OWNER AND LOCAL REQUIREMENTS.

EXISTING CONDITIONS NOTES:

1. THE CONTRACTOR IS OBLIGATED TO INSPECT FOR EXISTING CONDITIONS, INSTALLATIONS AND AVAILABLE INFORMATION PRIOR TO SUBMITTING A BID. REFER TO SPECIFICATIONS ALSO.
2. EXISTING INSTALLATIONS (SUCH AS WATER MAINS/LINES, GAS MAINS/LINES, SEWER MAINS/LINES, TELEPHONE LINES, POWER LINES, AND UTILITY STRUCTURES IN THE VICINITY OF THE WORK TO BE DONE) ARE INDICATED ON THE DRAWINGS ONLY TO THE EXTENT THAT SUCH INFORMATION HAS BEEN MADE AVAILABLE TO OR DISCOVERED BY THE ENGINEER IN PREPARING THE DRAWINGS. THERE IS NO GUARANTEE AS TO THE ACCURACY OR COMPLETENESS OF SUCH INFORMATION, AND ALL RESPONSIBILITY FOR THE ACCURACY AND COMPLETENESS THEREOF IS EXPRESSLY DISCLAIMED.
3. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR LOCATING ALL EXISTING INSTALLATIONS.
4. ANY DELAY, ADDITIONAL WORK, FEES OR EXTRA COST TO THE CONTRACTOR CAUSED BY OR RESULTING FROM DAMAGE TO OR MODIFICATION OF EXISTING INSTALLATIONS BY THE CONTRACTOR OR AFFECTED UTILITY COMPANY SHALL NOT CONSTITUTE A CLAIM FOR EXTRA WORK, ADDITIONAL PAYMENT OR DAMAGES.
5. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONSTRUCTION PRIOR TO SUBMITTING HIS BID. NO EXTRAS WILL BE PAID DUE TO UNANTICIPATED EXISTING CONDITIONS/INSTALLATIONS.

1 SITE UTILITY PLAN
C104 1"=20'-0"



GENERAL NOTES

- (A) REFER TO PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS.
- (B) COORDINATE WORK WITH OTHER SITE RELATED DEVELOPMENT DRAWINGS.
- (C) FIELD VERIFY SANITARY SEWER CONNECTION INVERT PRIOR TO ESTABLISHING FINAL FINISH FLOOR ELEVATION. NOTIFY ENGINEER IF EXISTING CONDITIONS REQUIRE REVISED FINISH FLOOR ELEVATION TO PROVIDE PROPER DRAINAGE.

KEY NOTES

- 1 EXISTING 10" PVC WATER LINE
- 2 EXISTING NATURAL GAS LINE
- 3 EXISTING UNDERGROUND ELECTRIC
- 4 EXISTING 8" SANITARY SEWER LINE
- 5 EXISTING COMMUNICATION LINE
- 6 CONTRACTOR TO FIELD VERIFY LOCATION AND ELEVATION OF EXISTING UNDERGROUND ELECTRIC. COORDINATE WORK WITH EVERGY. REFER TO DETAIL ON SHEET C-502
- 7 CONTRACTOR TO FIELD VERIFY LOCATION AND ELEVATION OF EXISTING 8" SEWER MAIN. INSTALL 76 LF OF 4" SEWER LATERAL. REFER TO DETAIL ON SHEET C-502
- 8 CONTRACTOR TO FIELD VERIFY LOCATION AND ELEVATION OF EXISTING WATER MAIN. INSTALL 58 LF OF 1" WATER SERVICE LINE. COORDINATE WITH LOCAL WATER COMPANY. REFER TO DETAIL ON SHEET C-502
- 9 48 LF OF 2" CONDUIT FOR FIBER OPTICS LINE TO RUN BETWEEN BARRACKS AND ADMIN BUILDING. THE CONDUIT TO END JUST NORTH OF JOHNSTON ROAD. REFER TO DETAIL ON SHEET C-502
- 10 REFER TO MEP PLANS FOR CONTINUATION.
- 11 166 LF OF 2" CONDUIT FOR FIBER OPTICS LINE TO RUN TO EXISTING SERVICE PEDESTAL. SAWCUT AND REPLACE PAVEMENT ACROSS MCCORY. REFER TO DETAIL ON SHEET C-502

UTILITY CONTACTS

WATER:
CONSOLIDATED PUBLIC WATER SUPPLY DISTRICT #1
3414 E. AUSTIN BLVD
NEVADA, MO 64772
P: (417) 667-8512

ELECTRIC:
EVERGY
720 E. YOUNG ST.
WARRENSBURG, MO 64093
CONTACT: PAUL KREHER, PE
P: (660) 442-6733

GAS:
LIBERTY UTILITIES
3400 S. KODIAK ROAD
JOPLIN, MO 64804
CONTACT: KATIE MATTHEWS
P: (417) 625-5100

SYMBOLS LEGEND

NOTE: REFER TO SURVEY FOR EXISTING CONDITIONS SYMBOLS LEGEND.

⊙	MANHOLE	— SS —
⊕	LIGHT POLE	
+	STOP SIGN	
⊕ _W	WATER VALVE	
⊕ _W	CABLE RISER	
⊕ _T	TELEPHONE RISER	
⊕ _E	ELECTRIC RISER	
⊕ _G	GAS METER	
⊕ _{SD}	SEWER CLEANOUT	
○	BUMPER POST	
⊕	FIRE HYDRANT	
— SS —	SANITARY SEWER	
— W —	WATER LINE	
— TEL —	TELEPHONE LINE	
— G —	GAS LINE	
— E —	UNDERGROUND ELECTRIC	
— SD —	DOWNSPOUT COLLECTOR	

CAUTION:
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**Know what's below
Call before you dig.**



STATE OF MISSOURI
MICHAEL L. PARSON,
GOVERNOR



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EMPLOYEE OWNED
ENGINEERS • SURVEYORS • LABORATORIES • DRILLING
3213 S. ANDERSON CIRCLE • WARRENSBURG, MISSOURI 64093 • PHONE: (417) 862-2741
ANDERSON CIRCLE OFFICE • AARON T. HARGRAVE • TEL: (417) 862-2741

PROJ.# 20J010026
BY: RN
C/D: ATH

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSTRUCTION

DEPARTMENT OF
PUBLIC SAFETY
MISSOURI ARMY
NATIONAL GUARD

DESIGN & CONSTRUCT
COMPANY SUPPLY &
ADMIN HEADQUARTERS
BUILDING

CAMP CLARK
TRAINING SITE
18159 SOUTH K HIGHWAY
NEVADA, MISSOURI

PROJECT # T2016-01
SITE # 6274
ASSET# 8136274080
BUILDING# 393

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____

ISSUE DATE: 07/30/2020

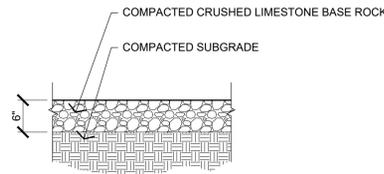
CAD DWG FILE: 6274-8136274080-C-104
DRAWN BY: RN
CHECKED BY: AH
DESIGNED BY: _____

SHEET TITLE:
SITE UTILITY PLAN

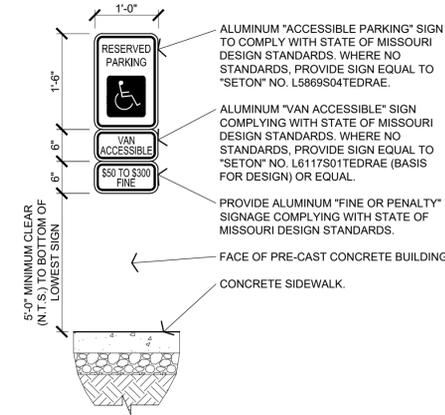
SHEET NUMBER:

C-104

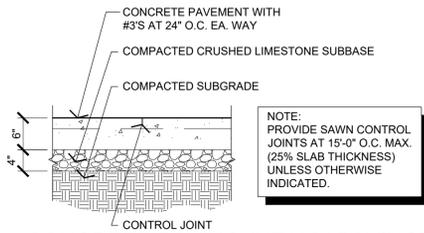
07 OF 27 SHEETS
07/30/2020



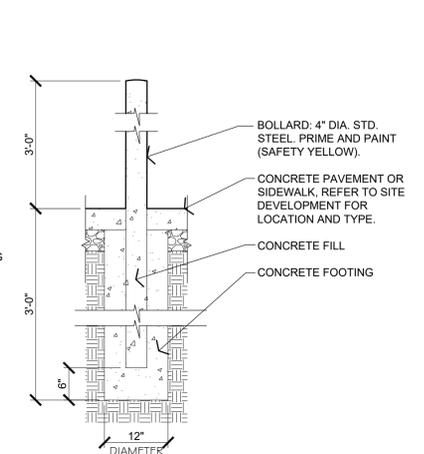
1
C-501
VEHICLE GRAVEL CIRCULATION SECTION
3/4" = 1'-0"



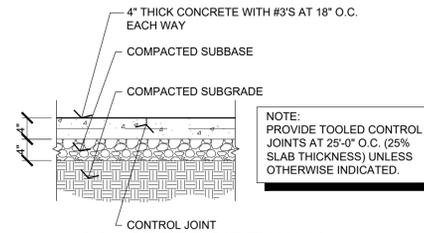
5
C-501
ACCESSIBLE PARKING SIGN DETAIL
3/4" = 1'-0"



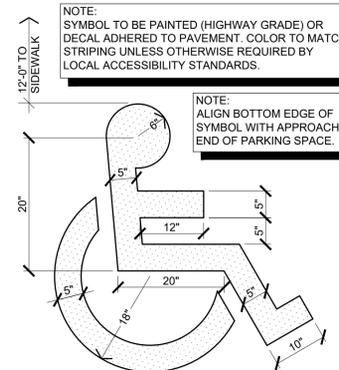
2
C-501
CONCRETE PAVING (HEAVY PAVING) SECTION
3/4" = 1'-0"



6
C-501
STEEL BOLLARD SECTION
3/4" = 1'-0"



3
C-501
CONCRETE SIDEWALK SECTION
3/4" = 1'-0"



4
C-501
ACCESSIBLE PARKING SYMBOL DETAIL
NOT TO SCALE

GENERAL NOTES

- (A) REFER TO PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS.
- (B) REFER TO SITE DEVELOPMENT PLANS FOR LAYOUT AND LOCATIONS OF CONSTRUCTION.

STATE OF MISSOURI
MICHAEL L. PARSON,
GOVERNOR

ARCHITECTURAL FIRM REGISTRATION NO.:
ARC 2004028947



SHEETS BEARING THIS SEAL ARE AUTHENTICATED.
RESPONSIBILITY FOR ALL OTHER PLANS,
SPECIFICATIONS OR INSTRUMENTS ARE DISCLAIMED.

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Architect - Consultant
3057 EAST CAIRO
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CAMP CLARK
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18159 SOUTH K HIGHWAY
NEVADA, MISSOURI

PROJECT # T2016-01
SITE # 6274
ASSET # 8136274080
BUILDING # 393

REVISION: _____
DATE: _____
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DATE: _____
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DATE: _____
ISSUE DATE: 07/30/2020

CAD DWG FILE: 6274-8136274080-C-501
DRAWN BY: BW-AP
CHECKED BY: BDW
DESIGNED BY: BW-AP

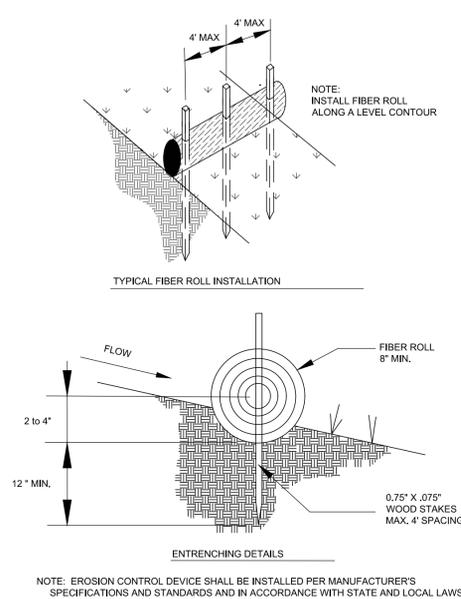
SHEET TITLE:

**SITE
DEVELOPMENT
DETAILS**

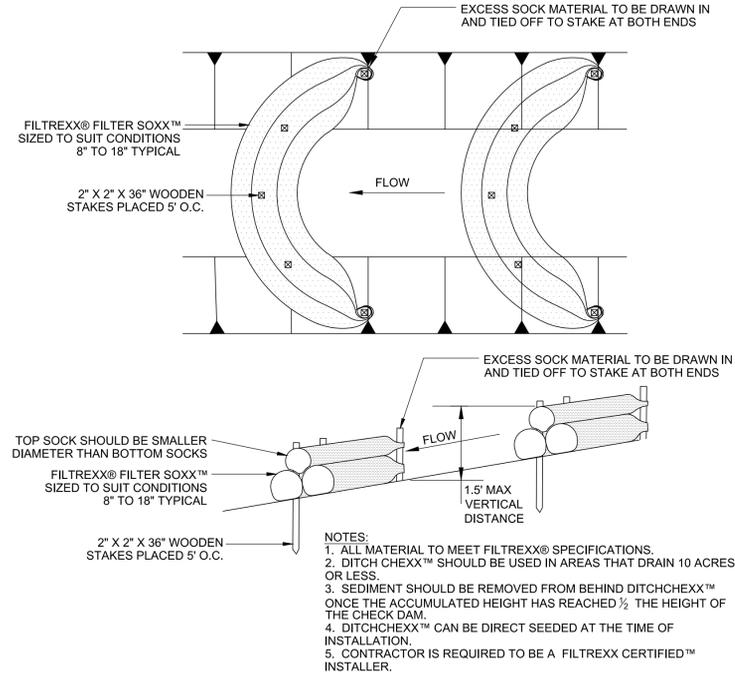
SHEET NUMBER:

C-501

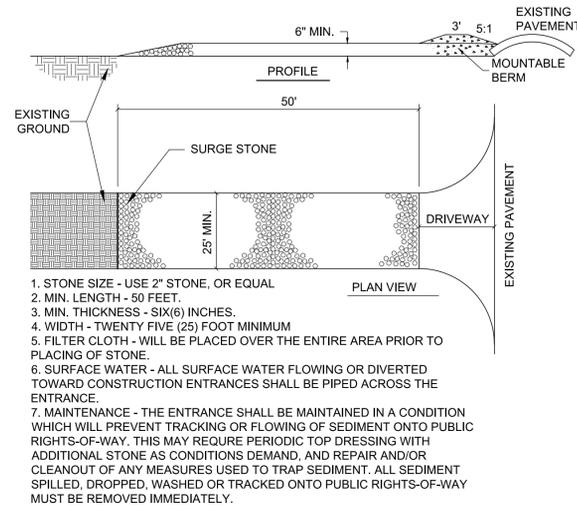
8 OF 27 SHEETS
07/30/2020



1 FIBER ROLLS AND SOCKS
C502 SCALE: NOT TO SCALE



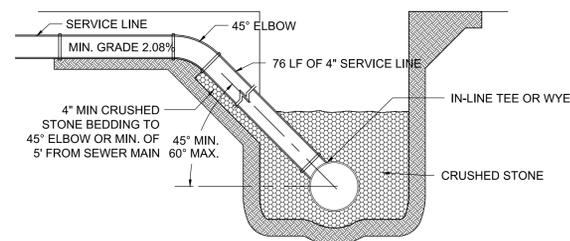
3 DITCH CHECK DETAIL
C502 SCALE: NOT TO SCALE



4 CONSTRUCTION ENTRANCE
C502 SCALE: NOT TO SCALE

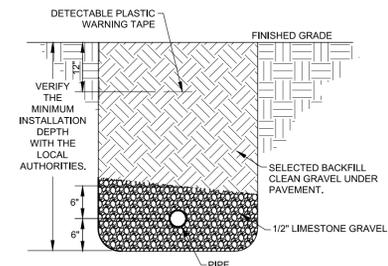


2 SECTION THROUGH 3 TO 1 DITCH DETAIL
C502 SCALE: NOT TO SCALE

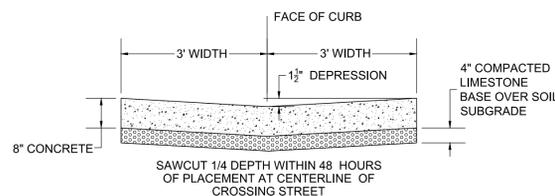


- NOTES:
1. LATERAL LINE TO HAVE 18\"/>

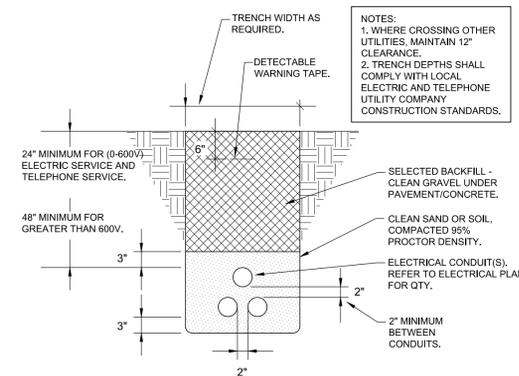
6 SANITARY SEWER SERVICE CONNECTION
C502 SCALE: NOT TO SCALE



7 PIPE INSTALLATION DETAIL
C502 SCALE: NOT TO SCALE



5 GUTTER CROSSING
C502 SCALE: NOT TO SCALE



8 UNDERGROUND ELECTRICAL CONDUITS
C502 SCALE: NOT TO SCALE



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18159 SOUTH K HIGHWAY
NEVADA, MISSOURI

PROJECT # T2016-01
SITE # 6274
ASSET# 8136274080
BUILDING# 393

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
ISSUE DATE: 07/30/2020

CAD DWG FILE: 6274-8136274080-C-502
DRAWN BY: RN
CHECKED BY: AH
DESIGNED BY: _____

SHEET TITLE:
**MISCELLANEOUS
SITE DETAILS**

SHEET NUMBER:

C-502

09 OF 27 SHEETS
07/30/2020

STRUCTURAL NOTES

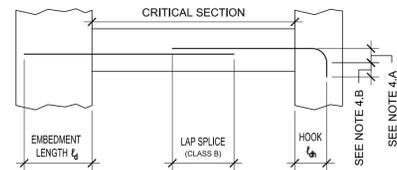
- 1. FOOTINGS & FOUNDATION EXCAVATION:**
- A GEOTECHNICAL ANALYSIS HAS BEEN PERFORMED ON THIS SITE. SEE PROJECT MANUAL FOR GEOTECHNICAL INFORMATION. APPROPRIATE RECOMMENDATIONS STATED IN THE GEOTECHNICAL REPORT ISSUED BY ANDERSON ENGINEERING, INC. DATED APRIL 30, 2020 AND ADDENDUM REPORT DATED JUNE 11, 2020 SHALL BE FOLLOWED.
 - THESE FOUNDATIONS HAVE BEEN DESIGNED FOR A SOIL BEARING OF 1500 PSF AND SLIDING FRICTION COEFFICIENT OF 0.35 FOR CONTINUOUS AND ISOLATED FOOTINGS.
 - FOUNDATIONS SHALL BEAR ON 6" OF CRUSHED AGGREGATE EQUAL TO MISSOURI STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION 2020. SECTION 1007 - AGGREGATE FOR BASE, TYPE 1 OVER CONTROLLED, PROPERLY COMPACTED FILL SOIL OR MOIST, STIFF, RESIDUAL SANDY CLAY. FLOOR SLAB TO BEAR ON PROPERLY COMPACTED FILL SOIL OR MOIST, STIFF, RESIDUAL SANDY CLAY. SEE GEOTECHNICAL REPORT FOR SPECIFIC REQUIREMENTS REGARDING EXCAVATION AND PREPARATION OF SUBGRADE. A GEOTECHNICAL ENGINEER SHOULD BE PRESENT TO DIRECT THE REMOVAL OF UNSUITABLE SOILS AND TO DETERMINE THE ADEQUACY OF THE BEARING SURFACE PRIOR TO PLACEMENT OF THE REINFORCEMENT AND CONCRETE.
 - FOOTING WIDTHS TO BE AS SHOWN ON PLANS AND DETAILS. BOTTOM OF FOOTING IS TO BE EXCAVATED SQUARE AND TRUE.
 - WHERE ANY OPEN TRENCH HAS BEEN EXPOSED TO RAIN, SNOW OR ICE PRIOR TO POURING CONCRETE, ALL REINFORCING IN THAT TRENCH SHALL BE REMOVED AND THE BOTTOM OF THE TRENCH SHALL BE DRAINED OF ALL WATER AND CLEANED OF MUD, SNOW OR ICE. A GEOTECHNICAL ENGINEER OR HIS TECHNICAL REPRESENTATIVE SHALL INSPECT THE BOTTOM OF THE TRENCH AND OBSERVE THE RE-COMPACTING OF SOILS PRIOR TO PLACING REINFORCEMENT AND POURING OF CONCRETE.
 - ALL STRIP FOOTINGS SHALL BE CENTERED UNDER WALLS BEING SUPPORTED AND ALL ISOLATED FOOTINGS SHALL BE CENTERED UNDER COLUMNS, UNLESS NOTED OTHERWISE.
 - MINIMUM EXTERIOR FOOTING DEPTH SHALL BE AS INDICATED ON THE FOUNDATION PLAN SHEET S-101.
 - IN THE EVENT THAT ORGANIC SOIL OR UNCOMPACTED FILL IS FOUND BELOW FOOTINGS OR FLOOR SLABS, IT SHALL BE REMOVED AND REPLACED WITH SELECT FILL, COMPACTED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT.
 - STRUCTURAL FILL SHOULD BE PLACED IN NO GREATER THAN 8" LOOSE LIFTS AND COMPACTED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT. ADEQUATE DENSITY AND MOISTURE CONTENT TESTS SHOULD BE PERFORMED TO INSURE COMPLIANCE WITH PROJECT SPECIFICATIONS. SUBGRADE INSPECTION AND FILL TESTING UNDER CONTROLLED CONDITIONS IS CONSIDERED ESSENTIAL IF THE FOOTINGS ARE TO BE FOUND IN FILL. A TESTING FREQUENCY OF AT LEAST ONE FIELD DENSITY TEST FOR EACH 2500 SQUARE FEET OF LIFT, BUT NOT LESS THAN 3 TESTS PER LIFT IS RECOMMENDED WITHIN THE BUILDING AREAS.
- 2. CONCRETE:**
- ALL READY MIX CONCRETE SHALL BE 3500 psi FOR ALL CONCRETE PLACEMENT. DO NOT ADD WATER TO THE MIX DESIGN AFTER DELIVERY TO THE PROJECT SITE.
 - EXPOSED EXTERIOR CONCRETE SHALL BE AIR-ENTRAINED (TOTAL AIR CONTENT = 5%). INTERIOR CONCRETE SHALL NOT BE AIR-ENTRAINED.
 - UNLESS NOTED OTHERWISE, CONCRETE COVER OVER STEEL REINFORCEMENT SHALL CONFORM TO THE MINIMUM REQUIREMENT BY ACI 318.
 - REINFORCEMENT DETAILING AND PLACEMENT SHALL CONFORM TO ACI 318 AND ACI 315, EXCEPT WHERE OTHERWISE INDICATED.
 - HOT OR COLD WEATHER CONCRETING SHALL BE IN ACCORDANCE WITH ACI 305-89 AND ACI 306-190, RESPECTIVELY.
 - ANY CONCRETE PLACED BY MEANS OF PUMPING SHALL BE DONE IN ACCORDANCE WITH ACI 304.2R (82).
 - CEMENT SHALL CONFORM TO A.S.T.M. C-150 TYPE I OR TYPE III.
 - AGGREGATES SHALL CONFORM TO A.S.T.M. C-33 FOR NORMAL WEIGHT CONCRETE & A.S.T.M. C-330 FOR LIGHTWEIGHT CONCRETE.
 - READY MIX CONCRETE SHALL BE MIXED AND DELIVERED IN ACCORDANCE WITH A.S.T.M. C-94.
 - ADMIXTURES MAY BE USED WITH THE APPROVAL OF THE STRUCTURAL ENGINEER. ADMIXTURES USED TO INCREASE THE WORKABILITY OF THE CONCRETE SHALL NOT BE CONSIDERED TO REDUCE THE CEMENT CONTENT. NO CALCIUM CHLORIDE ADMIXTURES ALLOWED.
- 3. SLABS ON GRADE:**
- FLOOR SLABS ARE TO BE PLACED AND FINISHED IN ACCORDANCE WITH ACI 302 (SEE PROJECT MANUAL FOR ADDITIONAL INFORMATION).
 - THICKNESS TOLERANCE FOR ALL SLABS IS TO BE PER ACI 117 AND IS TO BE NO MORE THAN +3/8" (THICKER) AND NO MORE THAN -1/2" (THINNER) FROM THE DESIGN THICKNESS.
- 4. CONCRETE USED FOR FLOOR SLABS SHALL INCLUDE SUPERPLASTICIZER. SEE PROJECT MANUAL FOR ADDITIONAL INFORMATION.**
- 4. REINFORCING:**
- REINFORCING BARS SHALL BE BILLET STEEL, ASTM A 615, GRADE 60. PROVIDE CONTINUOUS BENT BARS AT FOOTING STEPS AND 90 DEGREE BENT TIES AT CORNERS, UNLESS OTHERWISE NOTED. LAP SPLICES OR EMBEDMENT LENGTHS SHALL CONFORM TO CLASS B SPLICE (SEE SPLICE TABLE). ADJACENT BAR SPLICES IN WALLS AND FOOTINGS TO BE ALTERNATED. ALL FOOTINGS SHALL REQUIRED HOOKED REINFORCING PROJECTED INTO WALLS, PLASTERS OR COLUMNS. THE SIZE AND SPACING OF DOWELS ARE TO MATCH VERTICAL REINFORCING.
 - WELDED WIRE FABRIC (WWF) SHALL CONFORM TO THE CURRENT ASTM SPECIFICATION FOR COLD DRAWN STEEL REINFORCEMENT WIRE. LAP END AND EDGES MINIMUM 6".
 - REINFORCING DETAILING, BENDING, AND PLACING SHALL CONFORM TO ACI 315.
 - MINIMUM CONCRETE COVERAGE: THE MINIMUM CLEAR DISTANCES BETWEEN REINFORCING STEEL AND FACE OF CONCRETE SHALL BE MAINTAINED UNLESS NOTED OTHERWISE:
 SLABS ON EARTH.....ENTER OF SLAB
 CONCRETE BELOW GRADE, FORMED.....2"
 CONCRETE BELOW GRADE, UNFORMED AND POURED AGAINST EARTH.....3"
- 6. STRUCTURAL STEEL:**
- FABRICATOR QUALIFICATIONS: FABRICATOR MUST PARTICIPATE IN THE AISC QUALITY CONTROL PROGRAM AND BE DESIGNATED AN AISC-CERTIFIED PLANT.
 - MATERIALS (UNLESS NOTED OTHERWISE):
 STRUCTURAL STEELASTM A992, GRADE 50
 PLATES, ANGLES, CHANNELS, AND MISCELLANEOUS STEELASTM A36
 ANCHOR RODSASTM F1554, GRADE 36
 HIGH STRENGTH BOLTSASTM F3125
 WELDING ELECTRODESAWS A5.1 (E70XX)
 PIPEASTM A53, GRADE B
 SQUARE AND RECTANGULAR HOLLOW STRUCTURAL SECTIONS (HSS).....ASTM A500, GRADE B
- 7. LIGHT GAUGE STEEL:** SHALL CONFORM TO AISI (LATEST EDITION) AND THE FOLLOWING:
- ALL LIGHT GAUGE METAL STUDS, JOISTS AND HEADERS ARE TO MEET OR EXCEED INDUSTRY STANDARDS AS SET FORTH BY THE STEEL STUDS MANUFACTURER'S ASSOCIATION (SSMA).
 - LIGHT GAUGE STEEL MEMBER DESIGNATIONS SHOWN ON THE CONSTRUCTION DOCUMENTS ARE SSMA STANDARD DESIGNATIONS.
 - ALL LIGHT GAUGE STEEL WALLS SHALL BE Laterally Bridged at 48" O.C. (VERTICALLY) USING 2"x20ga STRAP BRACING ATTACHED TO EACH STUD FLANGE. SOLID BLOCKING WITHIN THE PLANE OF THE STRAP BRACING MUST BE PROVIDED AT EACH END OF WALL, ADJACENT TO WALL OPENINGS, AND AT 8' O.C. MAXIMUM. ALL BRIDGING AND BRACING IS TO BE POSITIVELY CONNECTED TO STUDS.
 - MINIMUM TRACK GAUGE TO MEET OR EXCEED GAUGE OF SUPPORTED STUDS.
 - BOTTOM TRACK FASTENERS TO BE SPACED AT EACH END OF WALL, ADJACENT TO WALL OPENINGS, AND AT 48" O.C. MAXIMUM.
 - POWDER ACTUATED FASTENERS SHALL BE DS HEAVY DUTY 0.177x1 1/2" LONG MANUFACTURED FROM MODIFIED AISI 1061 STEEL AUSTEMPERED TO A HARDNESS OF 52-56 HRC AND ZINC PLATED IN ACCORDANCE WITH ASTM B633.SC1, TYPE III. FASTENERS SHALL BE INSTALLED BY A QUALIFIED OPERATOR IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. POWDER ACTUATED FASTENERS SHALL BE AS MANUFACTURED BY "HILTI FASTENING SYSTEMS" OR EQUIVALENT.
 - ALL LOAD BEARING STUDS TO BE SEATED SQUARELY INTO TOP AND BOTTOM WALL TRACKS WITH NO MORE THAN A 1/16" GAP.
 - THE DESIGN OF SLIP TRACKS SHALL CONFORM TO THE GUIDELINES ESTABLISHED IN SSMA TECHNICAL NOTE NO. 1 PUBLISHED JANUARY, 2001.
- 8. GENERAL:**
- CONTRACTOR HAS SOLE RESPONSIBILITY TO COMPLY WITH ALL OSHA REGULATIONS.
 - THE STRUCTURAL DESIGN OF THE BUILDING IS BASED UPON THE FULL INTERACTION OF ALL ITS COMPONENT PARTS, WITH NO PROVISION MADE FOR CONDITIONS OCCURRING DURING CONSTRUCTION. THE STRUCTURE IS STABLE ONLY IN ITS COMPLETED FORM. THE CONTRACTOR SHALL PROVIDE ADEQUATE BRACING DURING CONSTRUCTION. TEMPORARY SUPPORTS REQUIRED FOR STABILITY DURING ALL INTERMEDIATE STAGES OF CONSTRUCTION SHALL BE DESIGNED, FURNISHED AND INSTALLED BY THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTIBILITY ANALYSIS AND ERECTION PROCEDURES, INCLUDING DESIGN AND ERECTION OF FALSEWORK, TEMPORARY BRACING, ETC. THE STRUCTURAL ENGINEER ASSUMES NO LIABILITY FOR THE STRUCTURE DURING CONSTRUCTION.
 - CORRECTIONS DUE TO UNFORESEEN FIELD CONDITIONS OR DIMENSIONAL DISCREPANCIES ON CONSTRUCTION DOCUMENTS MUST BE BROUGHT TO THE ATTENTION OF THE PROJECT ARCHITECT FOR REVIEW AND AUTHORIZATION PRIOR TO CORRECTIVE MEASURES BEING IMPLEMENTED.
 - STRUCTURAL DRAWINGS ARE TO BE USED IN CONJUNCTION WITH ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS.
 - NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER THESE GENERAL NOTES.
 - ALL SHOP DRAWINGS SHALL BE REVIEWED AND APPROVED BY THE PROJECT ARCHITECT/ENGINEER PRIOR TO SUBMITTING TO THE BUILDING DEPARTMENT FOR REVIEW AND APPROVAL.
- 9. SIMPSON "AT-XP" ADHESIVE SYSTEM: (BASIS OF DESIGN) CONCRETE IAPMO UES ER-263 - MASONRY IAPMO ES-281:**
- CONTRACTOR TO FOLLOW ALL REQUIREMENTS, INSTRUCTIONS, AND RECOMMENDATIONS FOR ADHESIVE APPLICATION.
 - SUBSTITUTIONS FOR SIMPSON "AT-XP" ANCHORING ADHESIVE SHALL BE ONLY UPON THE APPROVAL OF THE PROJECT ENGINEER OF RECORD.
- 10. SPECIAL INSPECTIONS REQUIREMENTS:**
- OWNER SHALL ENGAGE ONE OR MORE QUALIFIED SPECIAL INSPECTORS AND/OR TESTING AGENCIES TO CONDUCT STRUCTURAL TESTS, CONSTRUCTION MATERIAL TESTING, AND SPECIAL INSPECTIONS SPECIFIED IN THE "STATEMENT OF SPECIAL INSPECTIONS".
 - FOR THE SPECIFIC RESPONSIBILITY OF THE OWNER, CONTRACTOR, AND SPECIAL INSPECTOR REFER TO THE PROJECT MANUAL.

STRUCTURAL PRE-CAST CONCRETE

- 1. PRECAST CONCRETE PANELS:**
- CONTRACTOR SHALL REVIEW AND VERIFY ALL PANEL DIMENSIONS, OPENINGS, BEAM POCKETS, INSERTS, WELD PLATE LOCATIONS AND REPORT ANY DISCREPANCIES TO THE ARCHITECT/ENGINEER PRIOR TO CASTING PANELS.
 - EXPOSED EDGES OF THE PANELS SHALL BE CHAMFERED, UNLESS NOTED OTHERWISE. SEE ARCHITECTURAL DRAWINGS FOR PANEL FINISHES, REVEALS, CHAMFERS, ETC.
 - LIFTING INSERTS VISIBLE AFTER FINAL CONSTRUCTION SHALL BE PATCHED AND FINISHED TO MEET THE ARCHITECT'S APPROVAL.
 - TEMPORARY BRACING OF PANELS IS THE RESPONSIBILITY OF THE CONTRACTOR AND IS REQUIRED UNTIL ALL STRUCTURAL ELEMENTS, EMBED ATTACHMENTS, SLAB LEAVE-OUTS AND DIAPHRAGM CONSTRUCTION HAS BEEN COMPLETED.
- 2. POST INSTALLED ANCHORS:**
- POST INSTALLED ANCHORS AND THRU BOLTS SHALL ONLY BE USED WHERE SPECIFIED ON THE DRAWINGS. EXISTING PRE-CAST TENDONS TO BE LOCATED PRIOR TO DRILLING. POST-INSTALLED FASTENERS MUST BE OF THE PRE-DRILLED VARIETY. POWDER-ACTUATED FASTENERS SHOULD NOT BE USED IN PRE-CAST PANELS. HOLES SHALL BE DRILLED AND CLEANED PER THE MANUFACTURER'S INSTRUCTIONS. ANCHORS SHALL BE INSTALLED PER THE MANUFACTURER'S INSTALLATIONS INSTRUCTIONS AT NOT LESS THAN THE MINIMUM EDGE DISTANCES AND/OR SPACINGS INDICATED IN THE MANUFACTURER'S LITERATURE.
- 3. REFER TO SHEET S-101 FOR PRE-CAST DESIGN LOADS.**
- 4. PRE-CAST ROOF PANEL LIVE LOAD DEFLECTION TO BE 1/2" OR LESS**

BAR SIZE	SPLICE TABLE ¹					
	(UNLESS NOTED OTHERWISE)					
	LAP SPLICES (in.) ²		EMBED LENGTH (in.)			
	TOP BARS ³	OTHERS	TOP BARS ³	OTHERS	HOOKS ⁵	
	Class B	Class B	ld	ld	ldh	
#3	25	19	19	15	8	
#4	33	25	25	19	10	
#5	41	31	31	24	12	
#6	49	37	37	29	15	
#7	71	54	54	42	17	

- SPLICE TABLE IS BASED ON THE FOLLOWING:
 - CONCRETE $f_c = 3500$ psi
 - GRADE 60 REBAR
 - BAR SPACING NOT LESS THAN 2 BAR DIAMETERS OR 1"
 - CONCRETE COVER NOT LESS THAN ONE BAR DIAMETER
- LAP LENGTHS SHOWN ARE FOR CLASS B¹ TENSION SPLICES PER ACI 318-11 CHAPTER 12.
- TOP BARS ARE DEFINED AS HORIZONTAL REINFORCEMENT PLACED SO THAT MORE THAN 12" OF CONCRETE IS CAST BELOW THE REINFORCEMENT IN THAT MEMBER.
- STANDARD 90° HOOKS:
 - RADIUS = 4 BAR DIAMETERS FOR #3 THRU #8
 - LENGTH = 12 BAR DIAMETERS
 - HOOK LENGTH MAY BE REDUCED IN ACCORDANCE WITH ACI 318-11 CHAPTER 12.5



DESIGN CRITERIA

BUILDING CODE: 2015 INTERNATIONAL BUILDING CODE ICC 500-2014

DESIGN LOADS:

ROOF LIVE LOAD.....100.0 psf
 ROOF COLLATERAL LOAD.....2.5 psf
 ADDITIONAL CEILING SYSTEM COLLATERAL.....2.0 psf

SNOW LOAD:

$P_g = 20$ psf
 $P_f = 20$ psf
 $C_e = 1.0$
 $C_s = 1.0$
 $I_s = 1.0$

WIND CALCULATION METHOD: ENVELOPE

$V_{ref} = 250$ mph $V_{des} = 193.6$ mph
 EXPOSURE = "C"
 RISK CATEGORY = II
 BUILDING, PARTIALLY ENCLOSED $G_C = \pm 0.55$
 $K_z = 1.0$
 $K_d = 0.85$

MAIN FORCE RESISTING SYSTEM ("ASD"):

WALL AND ROOFS $q = 69.4$ psf
 PARAPETS $q_e = 70.7$ psf

WIND COMPONENTS & CLADDING: All Wind Pressures & Forces in "ASD"
 (Wind pressures below were used by JS Smith Consulting Engineers, P.C. for design. Components designed by others for use in this project will require wind pressures derived by that supplier.)

WALL AREAS 10 SQUARE FEET OR LESS = 125.5 psf
 WALL INTERIOR ZONES = 88.8 psf & -95.1 psf
 WALL END ZONES = 88.8 psf & -102.1 psf
 PARAPETS AT INTERIOR ZONES = 51.2 psf & -77.9 psf
 PARAPETS AT END ZONES = 51.2 psf & -77.9 psf
 ROOF INTERIOR ZONES = 52.0 psf & -100.6 psf
 ROOF EDGE ZONES = 52.0 psf & -114.4 psf
 ROOF CORNER ZONES = 52.0 psf & -114.4 psf

BASE SHEAR:

V_u : WIND (ASD) = 69.4 k
 SEISMIC (UB) = 30.5 k
 V_u : WIND (ASD) = 95.0 k
 SEISMIC (UB) = 22.9 k

SEISMIC DESIGN: EQUIVALENT FORCE PROCEDURE

$S_D = 0.124$
 $S_1 = 0.077$
 $S_{DS} = 0.132$
 $S_{T1} = 0.123$
 SITE CLASS = D
 SEISMIC DESIGN CATEGORY = B
 $I_e = 1.0$

SEISMIC FORCE RESISTING SYSTEM:

TRANSVERSE WALLS
 ORDINARY PRECAST SHEAR WALLS
 $R = 4.00$
 $C_S = 0.033$
 $\rho = 1.00$

BEARING WALLS
 ORDINARY PRECAST SHEAR WALLS
 $R = 3.00$
 $C_S = 0.044$
 $\rho = 1.00$

STATE OF MISSOURI
 MICHAEL L. PARSON,
 GOVERNOR



SHEETS BEARING THIS SEAL ARE AUTHENTICATED. RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS OR INSTRUMENTS ARE DISCLAIMED.

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DEPARTMENT OF
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DESIGN & CONSTRUCT
 COMPANY SUPPLY &
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 BUILDING

CAMP CLARK
 TRAINING SITE
 18159 SOUTH K HIGHWAY
 NEVADA, MISSOURI

PROJECT # T2016-01
 SITE # 6274
 ASSET # 8136274080
 BUILDING # 393

REVISION:
 DATE: _____
 REVISION:
 DATE: _____
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 DATE: _____

ISSUE DATE: 07/30/2020

CAD DWG FILE: T2016-01-0274-01-36274080-S-001
 DRAWN BY: MW
 CHECKED BY: KW, AS
 DESIGNED BY: KW

SHEET TITLE:

STRUCTURAL NOTES

SHEET NUMBER:

S-001

10 OF 27 SHEETS
 07/30/2020



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CAD DWG FILE: T2016-01-6274-8136274080-S-101
DRAWN BY: MW
CHECKED BY: KW, AS
DESIGNED BY: KW

SHEET TITLE:

FOUNDATION
PLAN

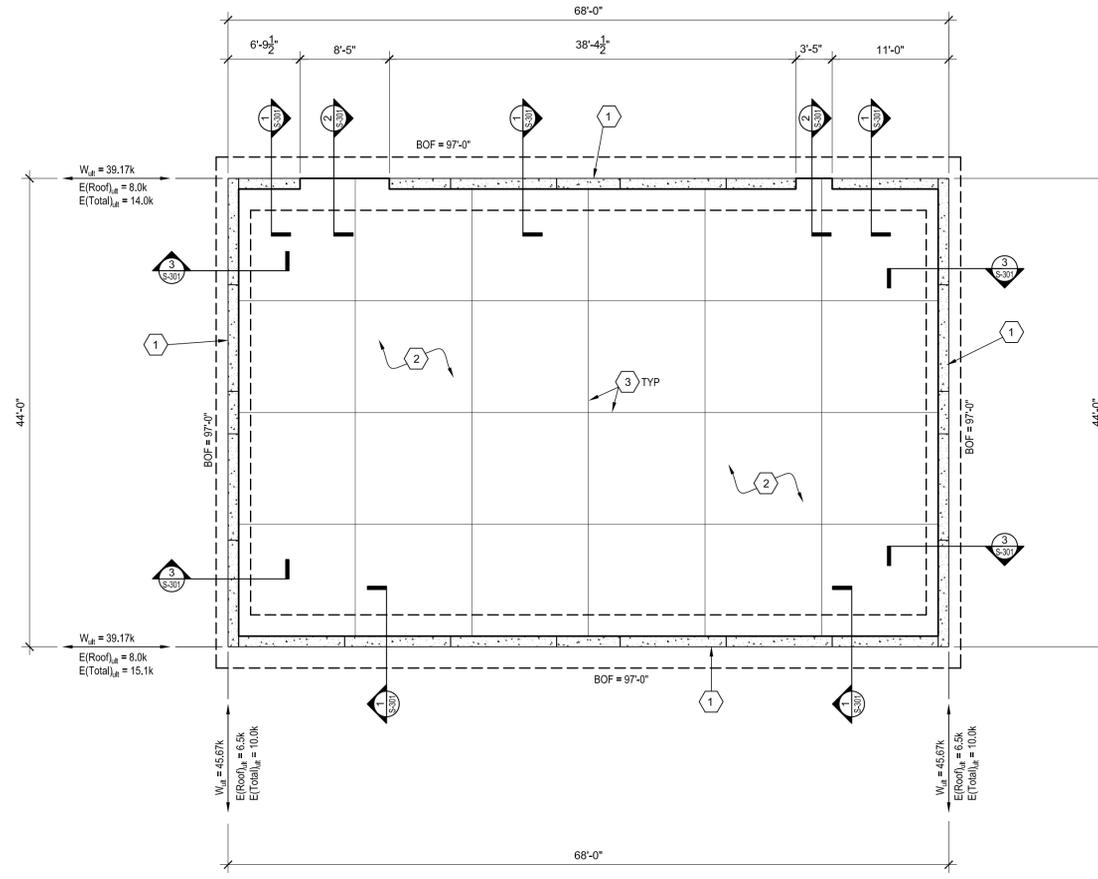
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S-101

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07/30/2020

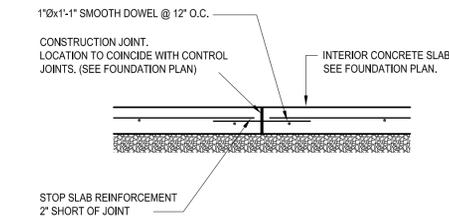
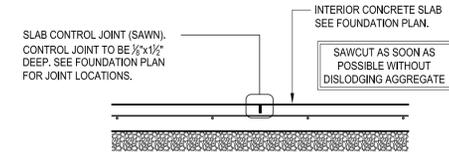
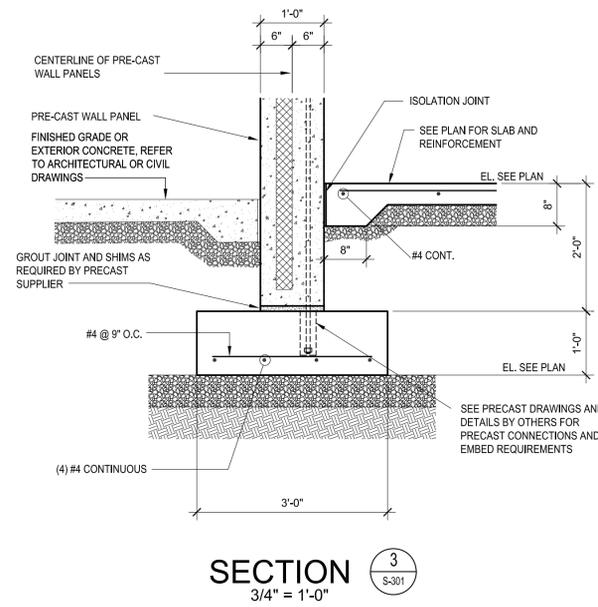
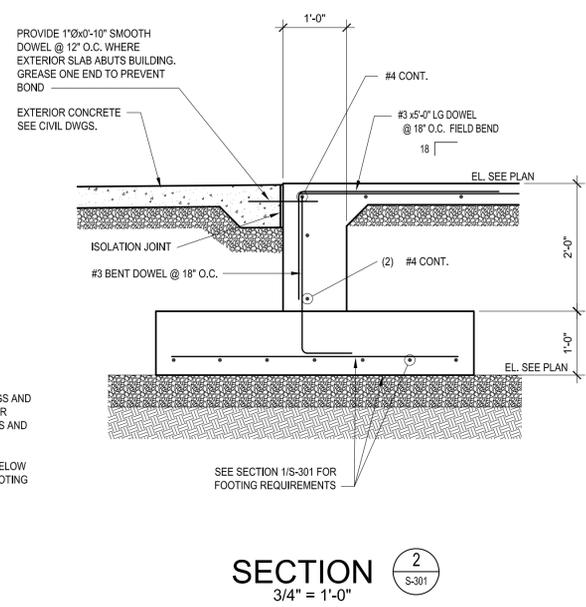
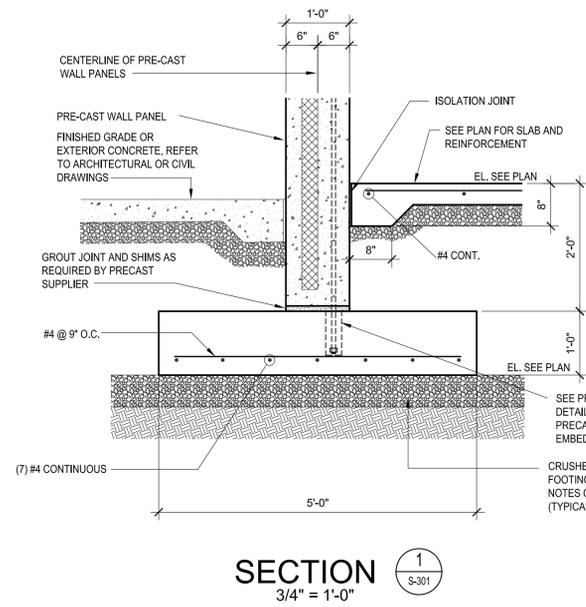
FOUNDATION KEY NOTES:

- 1 PRE-CAST CONCRETE WALL PANELS. REFER TO STRUCTURAL NOTES ON SHEET S-001 AND ALSO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION
- 2 4" THICK CONCRETE SLAB REINFORCED W/ #3 @ 18" O.C. EACH WAY (PLACED AT MID-HEIGHT OF SLAB) OVER POLYETHYLENE VAPOR RETARDER OVER COMPACTED SUB-BASE MATERIAL (AS DIRECTED BY THE GEOTECHNICAL REPORT OR ONSITE GEOTECHNICAL ENGINEER) OVER PROPERLY PREPARED SUBGRADE. FINISH FLOOR EL. = 100'-0" (SITE PLAN EQUIVALENT = 886.00'). COORDINATE INSTALLATION OF UNDER SLAB MECHANICAL, ELECTRICAL AND PLUMBING SYSTEMS WITH MECHANICAL DRAWINGS.
- 3 CONTROL OR CONSTRUCTION JOINT SEE DETAILS 4 & 5/S-301



1 FOUNDATION PLAN
S-101 1/8" = 1'-0"





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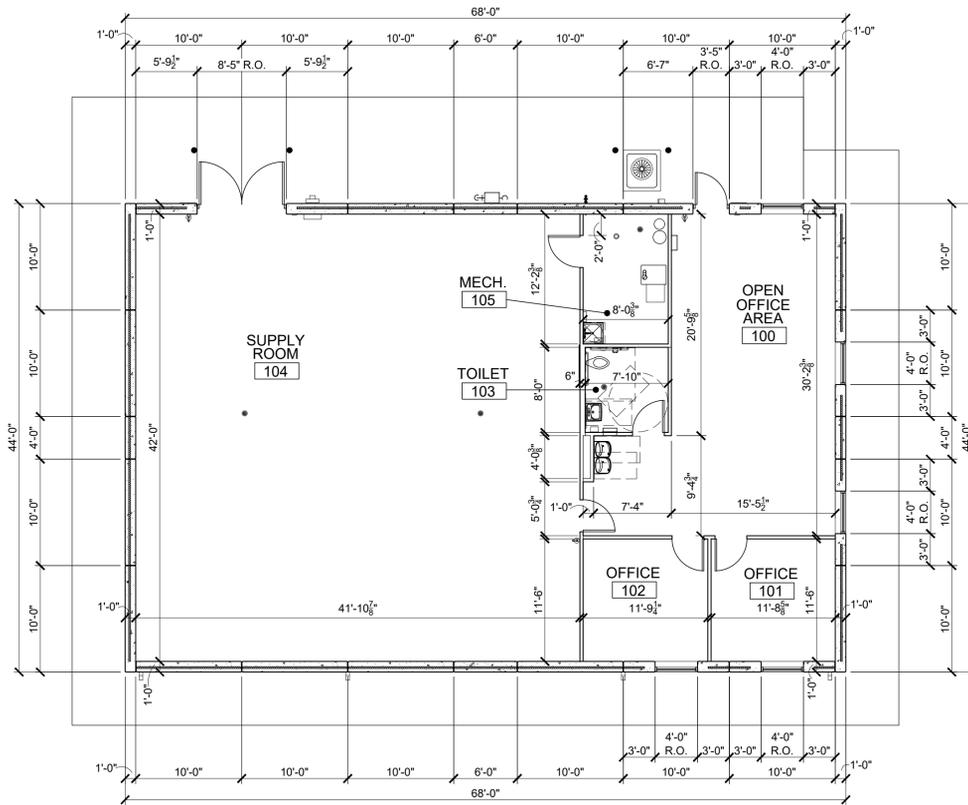
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FOUNDATION
DETAILS

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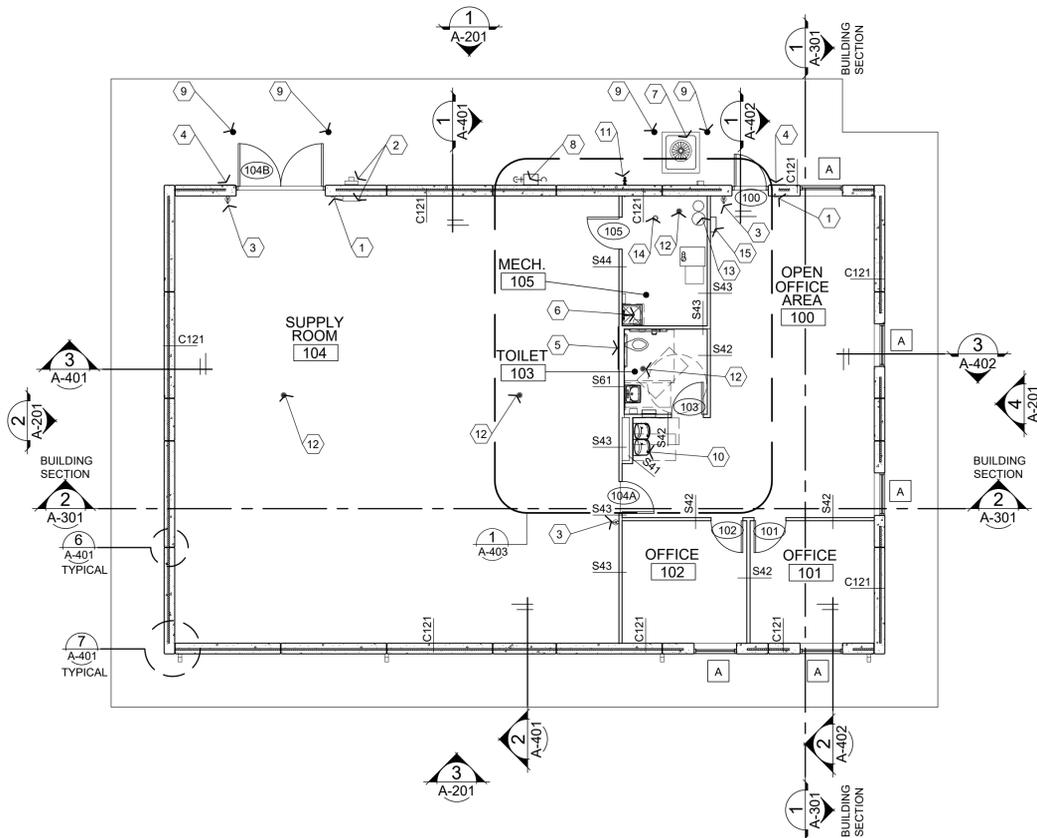
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07/30/2020



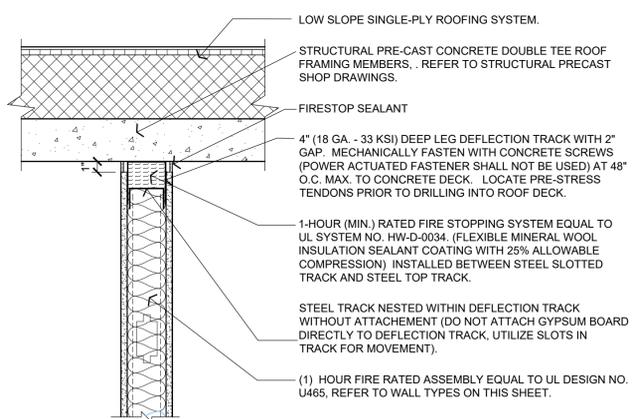
1 FLOOR PLAN
1/8" = 1'-0"

ALTERNATE NO. 2
TORNADO RESISTANT WINDOW SYSTEMS



2 COORDINATION FLOOR PLAN
1/8" = 1'-0"

ALTERNATE NO. 2
TORNADO RESISTANT WINDOW SYSTEMS



3 FIRE STOPPING DETAIL
1 1/2" = 1'-0"

WALL TYPES

- S41** STUD WALL:
-362S162-33 (3 5/8"-20 GA.) METAL STUD FRAMING AT 24" O.C.
-ONE LAYER 5/8" TYPE "X" GYP. BD. ON ONE SIDE
-EXTEND ASSEMBLY TO BOTTOM OF FRAMING ABOVE OR 12" ABOVE HIGHEST ADJACENT FINISH CEILING.
- S42** STUD WALL:
-362S162-33 (3 5/8"-20 GA.) METAL STUD FRAMING AT 24" O.C.
-ONE LAYER 5/8" TYPE "X" GYP. BD. BOTH SIDES (PROVIDE M.R. GYP. BD. AT HIGH MOISTURE AREAS).
-3 1/2" UNFACED BATT INSULATION
-EXTEND ASSEMBLY TO BOTTOM OF FRAMING ABOVE OR 12" ABOVE HIGHEST ADJACENT FINISH CEILING.
- S43** STUD WALL (UL DESIGN NO. U465):
-362S162-33 (3 5/8"-20 GA.) METAL STUD FRAMING AT 24" O.C.
-ONE LAYER 5/8" TYPE "X" GYP. BD. BOTH SIDES (PROVIDE M.R. GYP. BD. AT HIGH MOISTURE AREAS).
-EXTEND ASSEMBLY TO BOTTOM OF ROOF DECK.
-3 1/2" MINERAL WOOL BATT INSULATION.
-FIRE SEAL TOP OF WALL AT ROOF DECK, REFER TO DETAIL 3/A-101.
-(1) HOUR FIRE RATED ASSEMBLY.
- S44** STUD WALL:
-362S162-33 (3 5/8"-20 GA.) METAL STUD FRAMING AT 24" O.C.
-ONE LAYER 5/8" TYPE "X" GYP. BD. BOTH SIDES (PROVIDE M.R. GYP. BD. AT HIGH MOISTURE AREAS).
-EXTEND ASSEMBLY TO BOTTOM OF ROOF DECK.
- S61** STUD WALL (UL DESIGN NO. U419):
-600S162-33 (6"-20 GA.) METAL STUD FRAMING AT 24" O.C.
-ONE LAYERS 5/8" TYPE "X" GYP. BD. ON EACH SIDE (PROVIDE M.R. GYP. BD. AT HIGH MOISTURE AREAS).
-6" UNFACED BATT INSULATION
-EXTEND ASSEMBLY TO BOTTOM OF ROOF DECK.
-FIRE SEAL TOP OF WALL AT ROOF DECK, REFER TO DETAIL 3/A-101 (SIM).
-(1) HOUR FIRE RATED ASSEMBLY.
- C121** CONCRETE WALL:
-12" PRECAST CONCRETE WALL SYSTEM WITH RIGID INSULATION WHERE INDICATED, REFER WALL SECTIONS
-EXTEND ASSEMBLY FROM FLOOR TO TOP OF PARAPET.

GENERAL NOTES

- (A)** REFER TO PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS.
- (B)** DIMENSIONS TO ROUGH FACE OF PRE-CAST CONCRETE. COLD FORM FRAMING, OR CENTER LINE OF STRUCTURE UNLESS OTHERWISE INDICATED (3 5/8" STUD WALL DIMENSIONS NOT SHOWN FOR CLARITY).
- (C)** REFER TO CODE SUMMARY DRAWINGS FOR LOCATIONS OF FIRE RATED ASSEMBLIES.
- (D)** REFER TO MECHANICAL/ELECTRICAL PLANS FOR SYSTEM TYPES AND LOCATIONS.
- (E)** FOR DOOR AND WINDOW TYPES, REFER TO A-601 SERIES DRAWINGS.

KEY NOTES

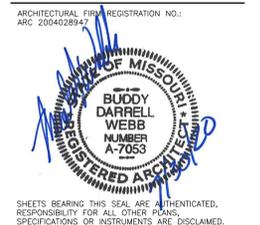
- (1)** TACTILE EXIT SIGN AT EXIT DISCHARGE DOOR STATING "EXIT" WITH BRAILLE (GRADE 2 CONTRACTED) LETTERING. SIGN CONSTRUCTION AND LOCATION TO COMPLY WITH ACCESSIBILITY CODE. MOUNT 48" MINIMUM ABOVE FINISH FLOOR TO BOTTOM OF LOWEST TACTILE CHARACTER AND 60" MAXIMUM ABOVE FINISH FLOOR TO BOTTOM OF HIGHEST TACTILE CHARACTER. EXIT SIGN AND INSTALLATION MUST COMPLY WITH ADA AND CABO/ANSI A117.1. REFER TO DETAIL 7/A-403 FOR TYPICAL MOUNTING REQUIREMENTS.
- (2)** ELECTRIC SERVICE / ELECTRIC PANEL, REFER TO ELECTRICAL DRAWINGS.
- (3)** SURFACE MOUNTED FIRE EXTINGUISHER. FIRE EXTINGUISHERS SHALL BE UL LISTED ABC TYPE, MULTIPURPOSE DRY CHEMICAL, 10 LBS. MINIMUM CAPACITY. REFER TO DETAIL 7/A-403 FOR TYPICAL MOUNTING REQUIREMENTS.
- (4)** "TORNADO SHELTER" SIGN, REFER TO DETAIL 1/G-101 AND FLOOR PLAN FOR ADDITIONAL REQUIREMENTS.
- (5)** 4'-0"x8'-0"x3/4" FIRE TREATED PLYWOOD TELEPHONE BOARD. COORDINATE EXACT LOCATION WITH TELECOMMUNICATION AND DATA CONTRACTOR, REFER TO ELECTRICAL DRAWINGS.
- (6)** WATER HEATER ON SHELF ABOVE MOP SINK, REFER TO PLUMBING DRAWINGS.
- (7)** MECHANICAL CONDENSING UNIT, REFER TO MECHANICAL DRAWINGS.
- (8)** GAS METER, REFER TO PLUMBING AND SITE UTILITY DRAWINGS.
- (9)** STEEL (PIPE) BOLLARD, REFER TO CIVIL DRAWINGS.
- (10)** DRINKING FOUNTAIN, REFER TO PLUMBING DRAWINGS.
- (11)** HOSE BIB, REFER TO PLUMBING DRAWINGS.
- (12)** FLOOR DRAIN, REFER TO PLUMBING DRAWINGS.
- (13)** WATER SOFTENER, REFER TO PLUMBING DRAWINGS.
- (14)** SEWER CLEAN-OUT, REFER TO PLUMBING DRAWINGS.
- (15)** FIRST AID KIT (ANSI Z308.1, CLASS B, TYPE 1 CONTAINER). MOUNT TOP 48" MAXIMUM ABOVE FINISH FLOOR.

INTERIOR WALL & CEILING NOTES

- 1. GENERAL:**
A. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- B. REFER TO CODE SUMMARY DRAWINGS FOR ADDITIONAL INFORMATION ON LOCATIONS OF FIRE RATED ASSEMBLIES.**
- C. REFER TO INTERIOR FINISH PLAN AND SCHEDULES FOR ADDITIONAL WALL FINISH MATERIAL APPLICATIONS.**
- 2. FRAMING:**
A. PROVIDE FIRE TREATED 2X BLOCKING AS REQUIRED FOR INSTALLATION OF ACCESSORIES, EQUIPMENT, AND FURNISHINGS PER MANUFACTURER'S RECOMMENDATIONS.
B. WHERE FRAMING DOES NOT EXTEND TO BOTTOM OF DECK OR STRUCTURE, PROVIDE LATERALLY BRACE TOP OF PARTITION WALL FRAMING WITH STUDS AT 4'-0" O.C. ALTERNATING DIAGONALLY EXTENDING TO STRUCTURAL FRAMING ABOVE.
C. WHERE WALL FRAMING EXTENDS TO BOTTOM OF ROOF DECK OR STRUCTURE, PROVIDE DEFLECTION CHANNELS AT TOP TRACK FOR 1 1/2" MINIMUM DEFLECTION.
D. PROVIDE HORIZONTAL STUD BRIDGING AT 4'-0" O.C. VERTICAL.
E. REFER TO DOOR HEAD, JAMB AND SILL DETAILS FOR ADDITIONAL FRAMING REQUIREMENTS.
- 3. GYPSUM AND BACKING BOARD:**
A. EXPANSION/CONTROL JOINTS: INSTALL EXPANSION/CONTROL JOINTS IN CEILINGS EXCEEDING 2500 SQ. FT. IN AREA AND IN PARTITION WALL LENGTHS EXCEEDING 30 FEET. DO NOT EXCEED A DISTANCE OF 50 FEET IN ANY DIRECTION BETWEEN CEILING JOINTS. INSTALL CONTROL JOINTS WHERE CEILING FRAMING OR FURRING CHANGES DIRECTION.
- B. PROVIDE "J" MOLDING REGRETS OR CORNER BEAD AT ALL DISSIMILAR WALL MATERIAL TRANSITIONS.**
- C. PROVIDE MOISTURE RESISTANT TYPE "X" GYPSUM BOARD AT ALL WET LOCATIONS (RESTROOMS, TOILETS, WET WALLS, AND JANITOR'S SINK AREAS).**
- 4. INSULATION:**
A. INSULATION SHALL HAVE A FLAME SPREAD RATING OF 0-25 AND A SMOKE DEVELOPMENT RATING OF 0-450.
B. PROVIDE SEALANT ON BOTH SIDES OF STUD BOTTOM TRACKS AT ACOUSTICAL INSULATED WALL LOCATIONS.
- 5. FIRE STOPPING:**
A. PROVIDE FIRE STOPPING AND FIRE SEALANT MATERIALS AS REQUIRED AT ALL FIRE RATED ASSEMBLY TRANSITIONS AND PENETRATIONS. RATING TO BE EQUAL TO RATED ASSEMBLY.

SYMBOLS LEGEND

- (105)** DOOR MARK, REFER TO DOOR SCHEDULE, ON SHEET A-601
- (2)** KEY NOTE, SEE NOTES ON THIS SHEET
- A** WINDOW MARK, REFER TO WINDOW SCHEDULE ON SHEET A-601
- OFFICE 101** ROOM MARK
- S44** WALL TYPE, REFER TO WALL TYPES ON THIS SHEET.



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BUILDING
CAMP CLARK
TRAINING SITE
18159 SOUTH K HIGHWAY
NEVADA, MISSOURI

PROJECT # T2016-01
SITE # 6274
ASSET # 8136274080
BUILDING # 393

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DATE: _____
ISSUE DATE: 07/30/2020

CAD DWG FILE: 6274-8136274080-A-101
DRAWN BY: BW-AP
CHECKED BY: BDW
DESIGNED BY: BW-AP

SHEET TITLE:
FLOOR PLAN

SHEET NUMBER:

A-101

13 OF 27 SHEETS
07/30/2020



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DATE: _____

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CAD DWG FILE: 6274-8136274080-A-102
DRAWN BY: BW-AP
CHECKED BY: BDW
DESIGNED BY: BW-AP

SHEET TITLE:

ROOF PLAN

SHEET NUMBER:

A-102

14 OF 27 SHEETS
07/30/2020

GENERAL NOTES

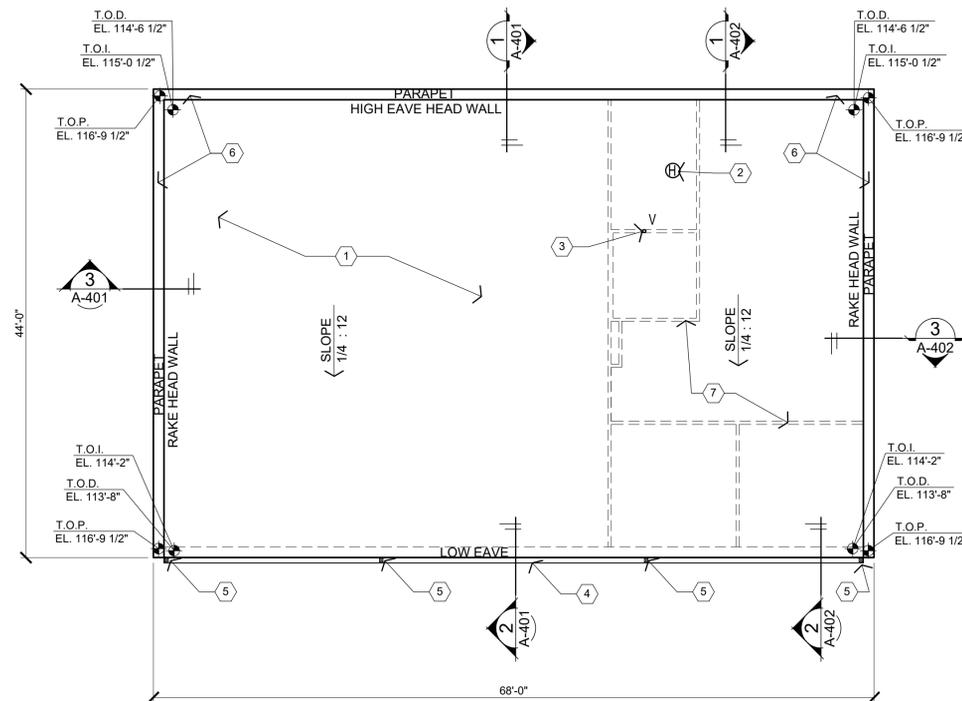
- (A) REFER TO PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS.
- (B) ROOF EDGE SECUREMENT TO COMPLY WITH ANSIFM 443/ES-1 WIND DESIGN STANDARD FOR EDGE SYSTEMS USED WITH LOW SLOPE ROOFING SYSTEMS.
- (C) SHEET METAL CONSTRUCTION SHALL COMPLY WITH SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION (SMACNA) DESIGN STANDARDS AND RECOMMENDATIONS.
- (D) ROOFING CONSTRUCTION SHALL COMPLY WITH NATIONAL ROOFING CONTRACTORS ASSOCIATION (NRCA) DESIGN STANDARDS AND RECOMMENDATIONS.
- (E) ALL ROOF VENTS SHALL COMPLY WITH ICC 500 OPENING PROTECTIVE REQUIREMENTS, PROVIDE DOCUMENTED WITH SHOP DRAWINGS AND UL TESTING AND APPROVAL NUMBERS.
- (F) REFER TO EXTERIOR FINISH SCHEDULE FOR ADDITIONAL REQUIREMENTS.
- (G) PROVIDE CEMENTITIOUS LEVELING COMPOUND AT CONCRETE SUBSTRATE JOINTS, DEPRESSIONS AND SURFACE IRREGULARITIES AS REQUIRED FOR INSTALLATION OF ROOFING SYSTEM.

KEY NOTES

- (1) SINGLE-PLY ROOFING MEMBRANE (TPO) SYSTEM OVER 1/2" COVER BOARD, RIGID INSULATION BOARD (R-30 MIN.) AND VAPOR RETARDER. SLOPE 1/4":12" (MIN.) TO DRAIN.
- (2) MECHANICAL HOT VENT THRU ROOF. REFER TO DETAIL 5/A-501.
- (3) PLUMBING VENT THRU ROOF. REFER TO DETAIL 6/A-501.
- (4) SHEET METAL GUTTERING (6"x6") WITH REMOVABLE ALUMINUM MESH DEBRIS SCREENS. SLOPE GUTTERS 1/4":12" TO DRAIN. PROVIDE 2" WIDE ALUMINUM GUTTER HANGERS AT 30" O.C. AND GUTTER BRACKETS AT 12"-0" O.C. REFER TO DETAILS 5/A-401, 3/A-501 AND 4/A-501.
- (5) SHEET METAL DOWNSPOUT (4"x4"). PROVIDE 2" WIDE WALL MOUNTING BRACKETS AT 6'-0" O.C..
- (6) SHEET METAL COPING, CLEATS AND ACCESSORIES. PROVIDE PRE-FINISHED FINISH AT ALL EXPOSED LOCATIONS AND GALVANIZED FINISH AT ALL CONCEALED LOCATIONS, REFER TO DETAILS 4/A-401, 1/A-501 AND 2/A-501.
- (7) LINE OF BUILDING WALL CONSTRUCTION BELOW.

SYMBOLS LEGEND

- LOCATION OF DOWNSPOUT
- VENT THROUGH ROOF
- HOT VENT
- DRAINAGE DIRECTION WITH APPROX. SLOPE IN INTL.
- SPOT ELEVATIONS (BENCH MARK REFERENCES AS FOLLOWS): TOP OF CONCRETE FLOOR (EL. 100'-0")
- T.O.D. EL. 114'-6 1/2"
- T.O.I.
- T.O.P.



1 ROOF PLAN
A-102 1/8" = 1'-0"





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BUILDING # 393

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CAD DWG FILE: 6274-8136274080-A-201
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DESIGNED BY: BW-AP

SHEET TITLE:
**EXTERIOR
ELEVATIONS**

SHEET NUMBER:

A-201

15 OF 27 SHEETS
07/30/2020

**EXTERIOR FINISH
SCHEDULE**

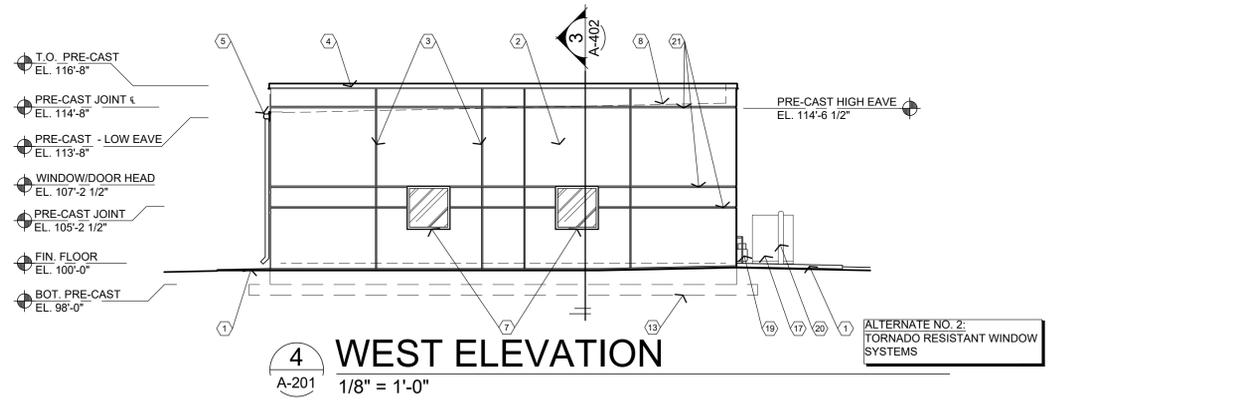
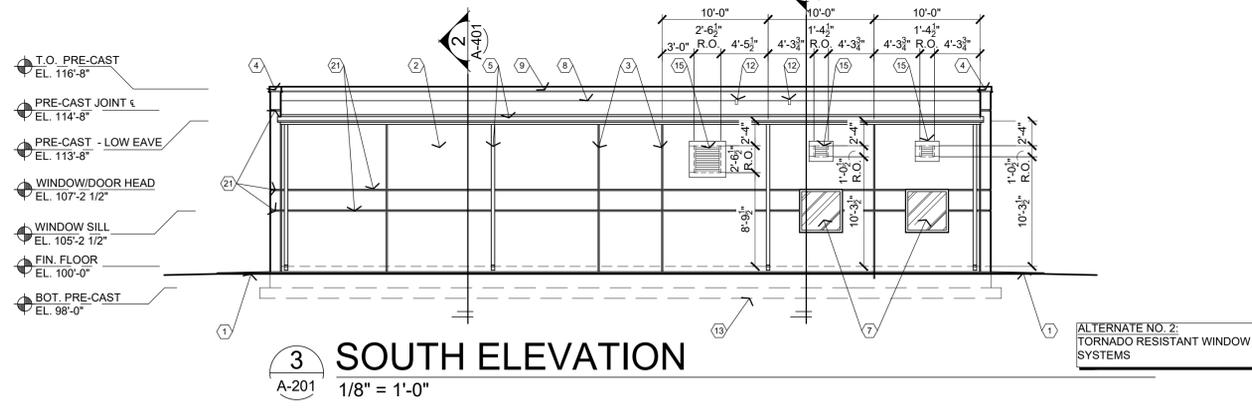
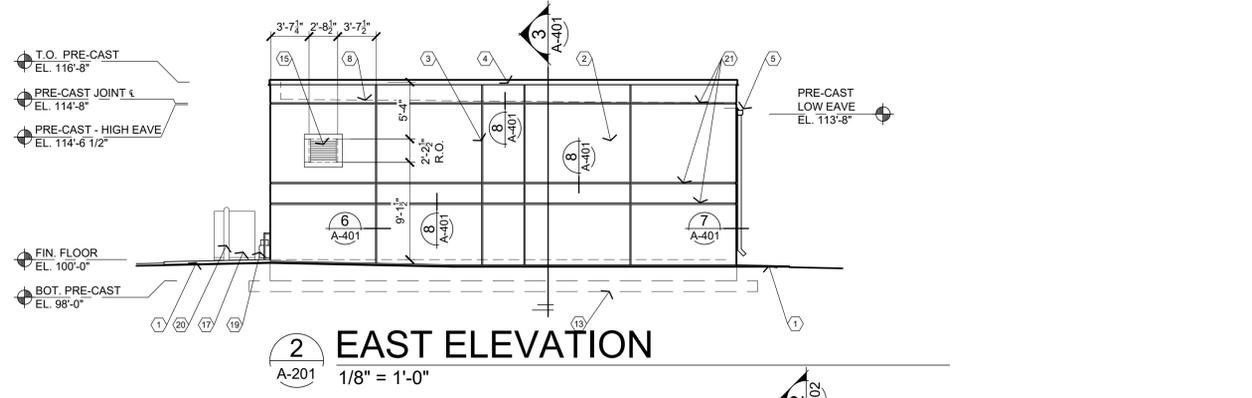
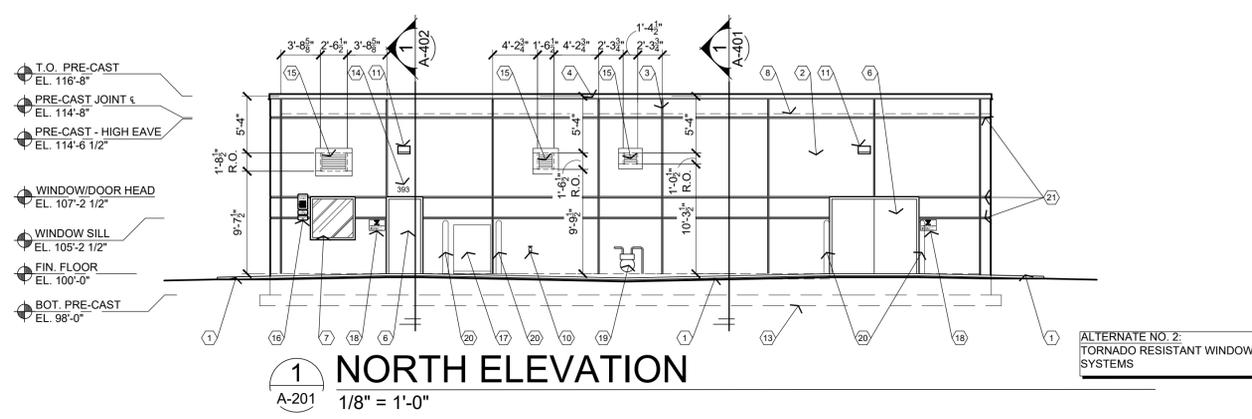
- STRUCTURAL PRECAST CONCRETE**
KEY NOTE NO. 2:
LOCATION: EXTERIOR WALL SYSTEM
FABRICATOR: (REFER TO PROJECT MANUAL)
FINISH: PCI PRODUCT NUMBER 250
NOTES: PROVIDE (2) COATS CLEAR WATER REPELANT
- SHEET METAL SYSTEMS**
KEY NOTE NO. 4:
LOCATION: SHEET METAL FLASHING, FASCIA, COPING, OR TRIM
MFG: (REFER TO PROJECT MANUAL)
COLOR: CLEAR ANODIZED ALUMINUM
- KEY NOTE NO. 5:**
LOCATION: SHEET METAL GUTTER AND DOWNSPOUT SYSTEM
MFG: (REFER TO PROJECT MANUAL)
COLOR: CLEAR ANODIZED ALUMINUM
- OPENINGS**
KEY NOTE NO. 6:
TYPE: HOLLOW METAL DOORS AND FRAMES
MFG: (REFER TO PROJECT MANUAL)
FINISH: PAINT
COLOR: (MATCH CLEAR ANODIZED ALUMINUM)
- KEY NOTE NO. 7:**
TYPE: TORNADO RESISTANT WINDOWS
MFG: (REFER TO PROJECT MANUAL)
FINISH: CLEAR ANODIZED ALUMINUM
GLAZING: (REFER TO GLAZING SCHEDULE)
- ELECTRICAL LIGHTING**
KEY NOTE NO. 11:
MFG: (REFER ELECTRICAL DRAWINGS)
FINISH: CLEAR ANODIZED ALUMINUM
- MECHANICAL WALL PENETRATIONS**
KEY NOTE NO. 19:
MFG: (REFER TO MECHANICAL DRAWINGS)
FINISH: CLEAR ANODIZED ALUMINUM

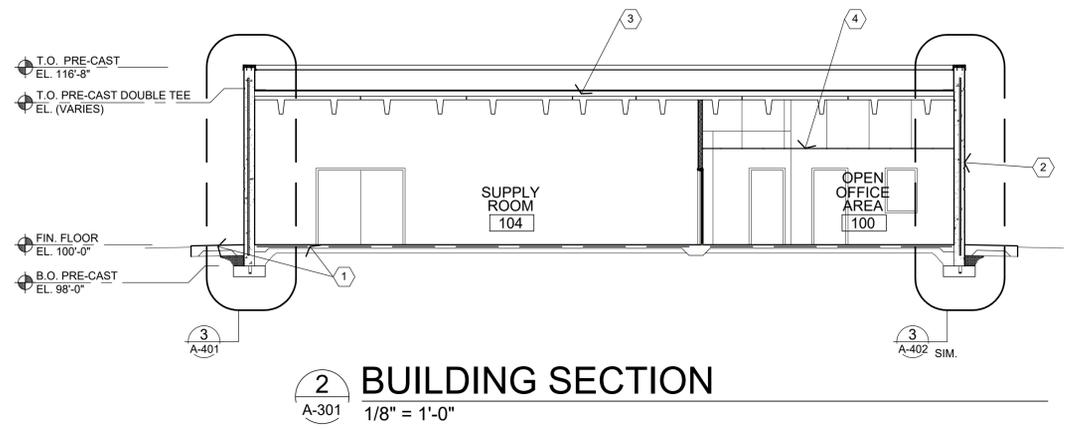
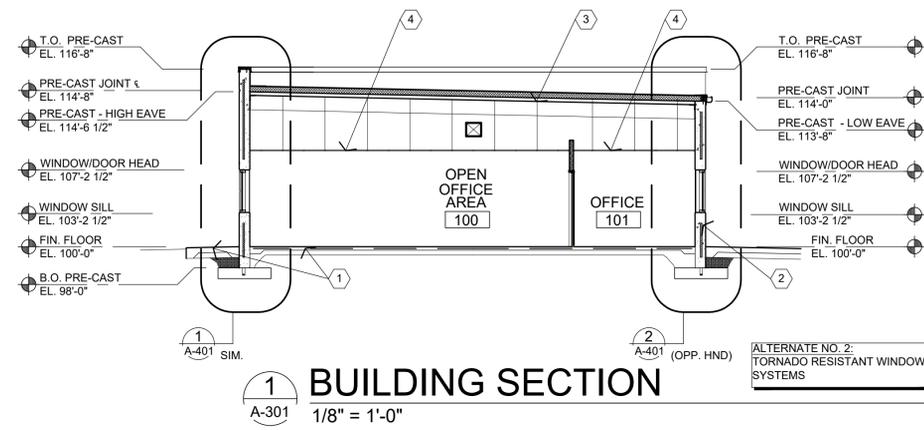
GENERAL NOTES

- (A) REFER TO PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS.
- (B) DIMENSIONS TO ROUGH FACE OF CONCRETE UNLESS OTHERWISE INDICATED.
- (C) FOR DOOR AND WINDOW TYPES, REFER TO FLOOR PLANS AND SCHEDULES.
- (D) MATERIAL COLORS, PATTERNS AND FINISHES TO BE SELECTED FROM MANUFACTURER'S FULL RANGE OF CUSTOM COLORS.
- (E) REFER TO CIVIL DRAWINGS FOR ADJACENT SITE DEVELOPMENT CONSTRUCTION.
- (F) REFER TO PLUMBING, MECHANICAL AND ELECTRICAL PLANS FOR SYSTEM TYPES.
- (G) REFER TO WALL SECTIONS AND DETAILS FOR ADDITIONAL REQUIREMENTS.
- (H) PAINT ALL EXPOSED METAL SURFACES TO MATCH CLEAR ANODIZED ALUMINUM, UNLESS OTHERWISE INDICATED.
- (I) PROVIDE (2) COATS CLEAR WATER REPELANT OVER ALL EXTERIOR EXPOSED STRUCTURAL PRECAST CONCRETE SURFACES.

KEY NOTES

- (1) CAST IN PLACE CONCRETE SLABS OR SIDEWALKS. REFER TO CIVIL DRAWINGS.
- (2) STRUCTURAL PRE-CAST CONCRETE WALL PANEL. REFER TO FLOOR PLAN FOR LAYOUT.
- (3) STRUCTURAL PRE-CAST CONCRETE WALL SYSTEM VERTICAL JOINT. PROVIDE BACKER ROD WITH SEALANT IN COLOR TO MATCH ADJACENT PANEL. REFER TO DETAIL 6/A-401 (TYPICAL)
- (4) SHEET METAL FLASHING, FASCIA, COPING, CLOSURE, OR TRIM.
- (5) SHEET METAL GUTTER AND DOWNSPOUT SYSTEM.
- (6) HOLLOW METAL DOOR SYSTEM, REFER TO FLOOR PLAN AND SCHEDULES FOR TYPES.
- (7) TORNADO RESISTANT WINDOW SYSTEM. REFER TO FLOOR PLAN AND SCHEDULES FOR TYPES (ALTERNATE NO. 2).
- (8) LINE OF ROOF OR STRUCTURE (BEYOND).
- (9) LINE OF ROOF PARAPET (BEYOND)
- (10) HOSE BIB. REFER TO PLUMBING DRAWINGS.
- (11) LIGHT FIXTURE. REFER TO ELECTRICAL DRAWINGS. TOP OF FIXTURE AT 12'-0" ABOVE FINISH FLOOR.
- (12) MECHANICAL ROOF PENETRATIONS, REFER TO ROOF PLAN.
- (13) LINE OF FOOTINGS. REFER TO STRUCTURAL DRAWINGS.
- (14) BUILDING ADDRESS IDENTIFICATION NUMBERS - "393" SIGN IN 6" HIGH HELVETICA BOLD CHARACTERS ATTACHED TO THE BUILDING.
- (15) MECHANICAL WALL PENETRATION, REFER TO MECHANICAL DRAWINGS. PROVIDE FRAMING, FLASHING AND SEALANT AS REQUIRED FOR COMPLETE INSTALLATION.
- (16) ACCESSIBLE PARKING SIGN, REFER TO CIVIL DRAWINGS.
- (17) MECHANICAL CONDENSING UNITS, REFER TO MECHANICAL DRAWINGS.
- (18) "TORNADO SHELTER" SIGN, REFER TO DETAIL 1/G-101 AND FLOOR PLAN FOR ADDITIONAL REQUIREMENTS.
- (19) GAS METER, REFER TO PLUMBING DRAWINGS.
- (20) STEEL BOLLARD, REFER TO CIVIL DRAWINGS.
- (21) STRUCTURAL PRECAST CONCRETE WALL HORIZONTAL REVEAL JOINT. REFER TO DETAIL 5/A-401 (TYPICAL).





GENERAL NOTES

- (A) REFER TO PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS.
- (B) ALL DIMENSIONS ARE TO ROUGH FACE OF FRAMING OR CONCRETE STRUCTURE UNLESS OTHERWISE INDICATED.
- (C) REFER TO CIVIL, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- (D) REFER TO STRUCTURAL PRE-CAST CONCRETE SHOP DRAWINGS FOR ADDITIONAL REQUIREMENTS.
- (E) REFER TO EXTERIOR AND INTERIOR FINISH SCHEDULES FOR MATERIAL TYPES AND LOCATIONS.
- (F) REFER TO FLOOR PLAN FOR DOOR AND WINDOW TYPES AND LOCATIONS.
- (G) DESIGNATED STORM SHELTER ASSEMBLIES SHALL COMPLY WITH ICC 500 REQUIREMENTS FOR CONSTRUCTION, OPENING PROTECTIVES, AND PENETRATIONS REQUIREMENTS.
- (H) PENETRATIONS THRU FIRE-RATED ASSEMBLIES SHALL BE INSTALLED WITH FIRE DAMPERS, FIRE SEAL, ETC., SO AS TO MAINTAIN THE FIRE-RESISTIVE RATING AND STRUCTURAL INTEGRITY OF RATED CONSTRUCTION.
- (I) ROOF EDGE SECUREMENT TO COMPLY WITH ANSI/FM 4435/ES-1 WIND DESIGN STANDARD FOR EDGE SYSTEMS USED WITH LOW SLOPE ROOFING SYSTEMS.
- (J) SHEET METAL CONSTRUCTION SHALL COMPLY WITH SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION (SMACNA) DESIGN STANDARDS AND RECOMMENDATIONS.
- (K) ROOFING CONSTRUCTION SHALL COMPLY WITH NATIONAL ROOFING CONTRACTORS ASSOCIATION (NRCA) DESIGN STANDARDS AND RECOMMENDATIONS.

KEY NOTES

- (1) CAST IN PLACE CONCRETE SLABS OR SIDEWALKS. REFER TO CIVIL AND STRUCTURAL DRAWINGS.
- (2) STRUCTURAL PRE-CAST CONCRETE WALL PANEL SYSTEM. REFER TO FLOOR PLAN FOR LAYOUT.
- (3) STRUCTURAL PRECAST CONCRETE DOUBLE TEE ROOF STRUCTURE.
- (4) SUSPENDED ACOUSTICAL CEILING SYSTEM, REFER TO REFLECTED CEILING PLAN.

STATE OF MISSOURI
MICHAEL L. PARSON,
GOVERNOR

ARCHITECTURAL FIRM REGISTRATION NO.:
ARC 2004028947



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PROJECT # T2016-01
SITE # 6274
ASSET # 8136274080
BUILDING # 393

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DATE: _____
ISSUE DATE: 07/30/2020

CAD DWG FILE: 6274-8136274080-A-301
DRAWN BY: BW-AP
CHECKED BY: BDW
DESIGNED BY: BW-AP

SHEET TITLE:
**BUILDING
SECTIONS**

SHEET NUMBER:

A-301

16 OF 27 SHEETS
07/30/2020



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ISSUE DATE: 07/30/2020

CAD DWG FILE: 6274-8136274080-A-401
DRAWN BY: BW-AP
CHECKED BY: BDW
DESIGNED BY: BW-AP

SHEET TITLE:
WALL SECTIONS

SHEET NUMBER:

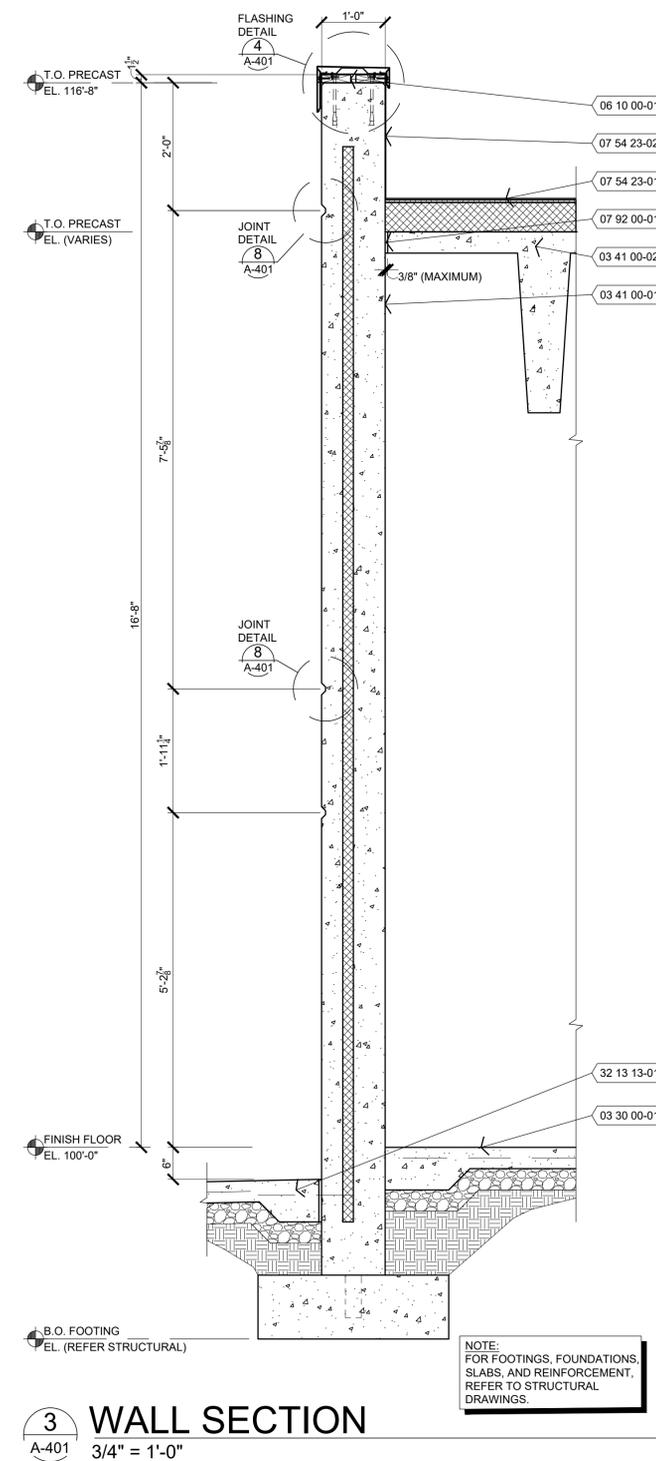
A-401

17 OF 27 SHEETS
07/30/2020

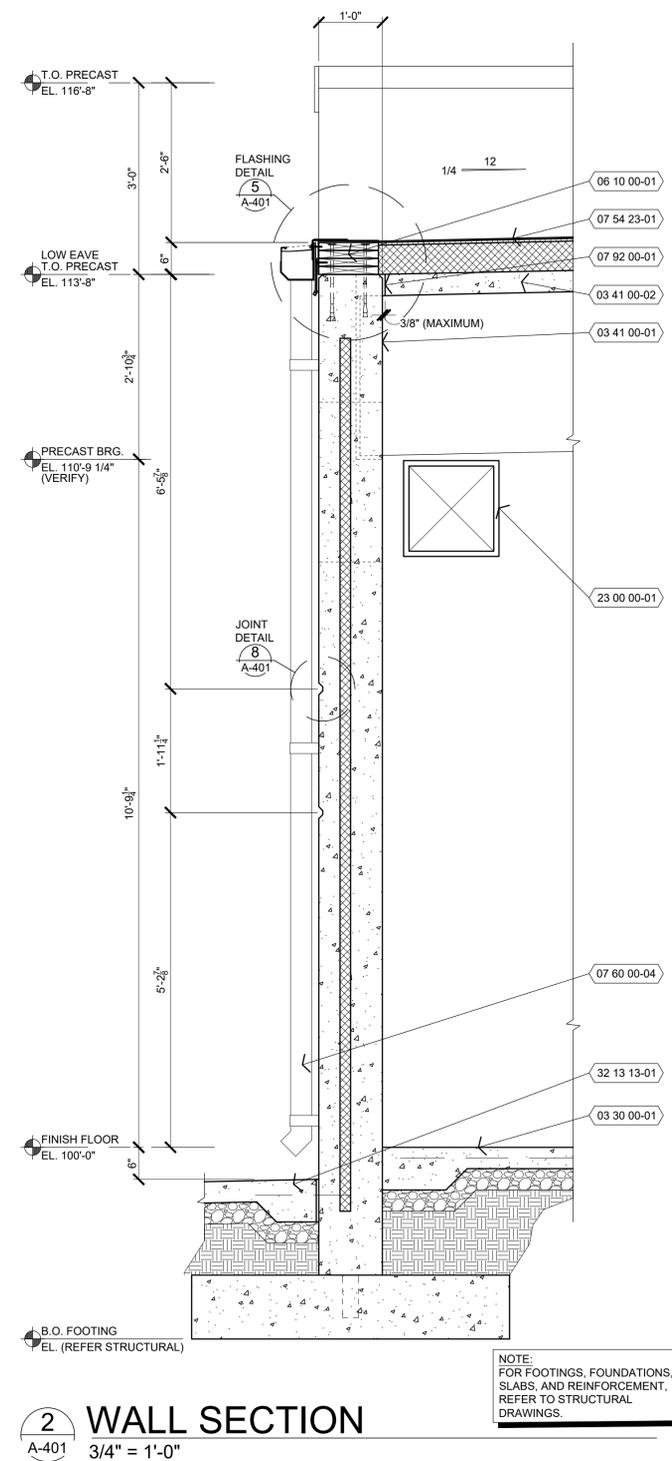
KEY NOTES

REFER TO SHEET A-301 FOR GENERAL NOTES.

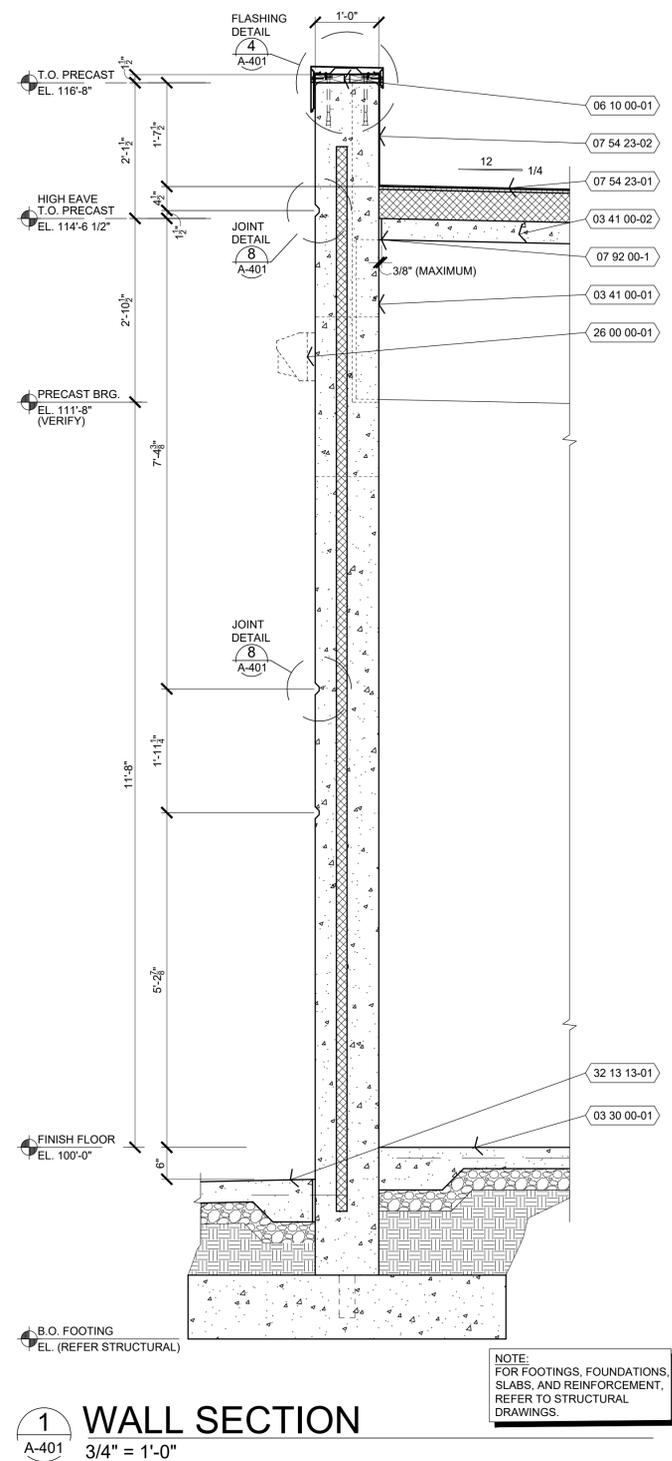
- 03 30 00-01 CONCRETE FLOOR SLAB, REFER TO STRUCTURAL DRAWINGS.
- 03 41 00-01 STRUCTURAL PRE-CAST CONCRETE COMPOSITE WALL PANEL SYSTEM WITH R-11 (MIN.) RIGID INSULATION AT EXTERIOR EXPOSED PANELS. REFER TO FLOOR PLAN AND EXTERIOR ELEVATIONS FOR PANEL LAYOUT.
- 03 41 00-02 STRUCTURAL PRE-CAST CONCRETE DOUBLE TEE (2'-10" OVERALL DEPTH) ROOF FRAMING MEMBERS. REFER TO STRUCTURAL PRECAST SHOP DRAWINGS. CAMBER SHALL NOT REDUCE 1/4:12 MINIMUM ROOF SLOPE.
- 03 41 00-03 STRUCTURAL PRE-CAST CONCRETE REVEAL JOINT.
- 05 50 00-01 1/2" DIA. GALVANIZED EXPANSION BOLTS OR GALVANIZED ALL THREAD ROD WITH EPOXY, AT 48" O.C. STAGGERED EXTENDING 8" MINIMUM INTO CONCRETE. PROVIDE NUTS WITH 1" DIA. MINIMUM WASHERS AND RECESS HEADS INTO NAILERS.
- 06 10 00-01 2X FIRE TREATED BLOCKING OR NAILER(S).
- 07 54 23-01 LOW SLOPE SINGLE-PLY ROOFING SYSTEM OVER COVER BOARD, RIGID TAPERED INSULATION (WHERE INDICATED), RIGID INSULATION BOARD (R-30 MIN.), AND AIR AND VAPOR RETARDER SYSTEM. REFER TO ROOF PLAN. PROVIDE CEMENTITIOUS LEVELING COMPOUND AT CONCRETE SUBSTRATE JOINTS, DEPRESSIONS, AND SURFACE IRREGULARITIES AS REQUIRED.
- 07 54 23-02 LOW SLOPE SINGLE-PLY ROOFING FLEXIBLE FLASHING SYSTEM. AT PARAPETS EXTEND UP OVER TOP AND DOWN BEHIND CONTINUOUS CLEATS. LAP BUTT JOINTS 8" MINIMUM AND MASTIC.
- 07 60 00-01 SHEET METAL FLASHING, COUNTER FLASHING, FASCIA, DRIPS, TRIM, CLADDING, CLEATS AND ACCESSORIES.
- 07 60 00-02 SHEET METAL COPING WITH ANCHOR CLIPS, SPLICE PLATES AND #10 X 1 1/2" GALVANIZED FASTENERS. SLOPE TO DRAIN.
- 07 60 00-03 SHEET METAL GUTTERING, SLOPE GUTTERS 1/4":12" TO DRAIN. PROVIDE 2" WIDE ALUMINUM GUTTER HANGERS AT 30" O.C. AND GUTTER BRACKETS AT 12'-0" O.C.
- 07 60 00-04 SHEET METAL DOWNSPOUT (4"x4"), REFER ROOF PLAN FOR LOCATIONS. PROVIDE 2" WIDE WALL MOUNTING BRACKETS AT 6'-0" O.C. ATTACHED WITH #10 STAINLESS STEEL FASTENERS.
- 07 60 00-05 EXTRUDED ALUMINUM ANCHOR BAR ROOF EDGE SECUREMENT CONTINUOUS WITH PRE-DRILLED HOLES. ATTACH TO NAILERS WITH #10 X 2" STAINLESS STEEL FASTENERS AT 12" O.C.
- 07 60 00-06 EXTRUDED ALUMINUM GUTTER FLANGE ROOF EDGE SECUREMENT CONTINUOUS WITH PRE-SLOTTED HOLES AT 12" O.C. AND ATTACHED WITH #10 X 2" STAINLESS STEEL FASTENERS.
- 07 72 00-01 REMOVABLE ALUMINUM GUTTER DEBRIS SCREENS.
- 07 92 00-01 SEALANT WITH BACKER ROD. COLOR TO MATCH ADJACENT MATERIAL.
- 08 11 19-01 METAL DOOR AND METAL. REFER TO FLOOR PLAN AND DOOR SCHEDULE FOR TYPES. SHIM AND ANCHOR PER MANUFACTURER'S RECOMMENDATIONS AND GROUT FRAME FULL.
- 08 55 13-01 TORNADO RESISTANT WINDOW SYSTEM, REFER TO FLOOR PLANS AND SCHEDULES FOR TYPES AND LOCATIONS. SHIM AND ANCHOR PER MANUFACTURER'S RECOMMENDATIONS.
- 09 51 00-01 ACOUSTICAL TILE CEILING SYSTEM. REFER TO REFLECTED CEILING PLAN FOR LOCATIONS AND LAYOUT.
- 23 00 00-01 HVAC SYSTEM. REFER TO MECHANICAL DRAWINGS.
- 26 00 00-01 LIGHT FIXTURE SYSTEM. REFER TO ELECTRICAL DRAWINGS.
- 32 13 13-01 CONCRETE SIDEWALKS SLOPING 1/4:12 AWAY FROM BUILDING. REFER TO CIVIL DRAWINGS.
- 32 90 00-01 FINISH GRADE SLOPE 1/4:12 MIN. AWAY FROM BUILDING. REFER TO CIVIL DRAWINGS.
- 33 40 00-01 DOWNSPOUT COLLECTION SYSTEM. REFER TO CIVIL DRAWINGS.



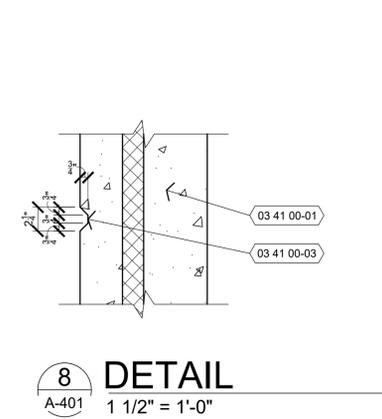
3 WALL SECTION
A-401 3/4" = 1'-0"



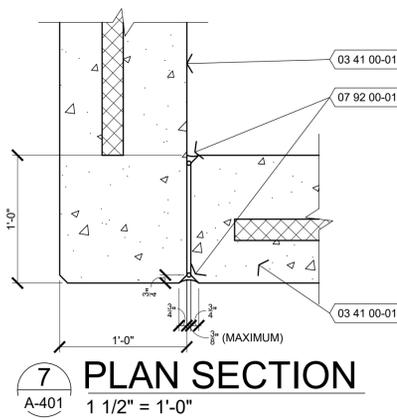
2 WALL SECTION
A-401 3/4" = 1'-0"



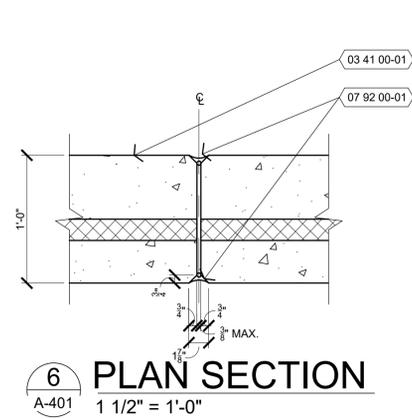
1 WALL SECTION
A-401 3/4" = 1'-0"



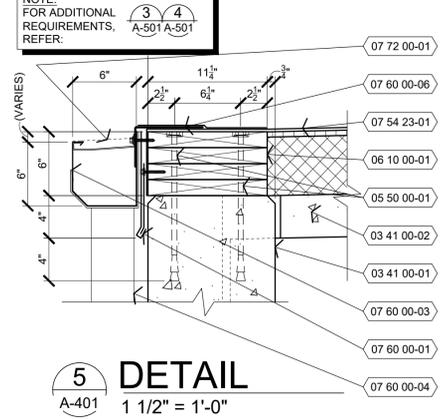
8 DETAIL
A-401 1 1/2" = 1'-0"



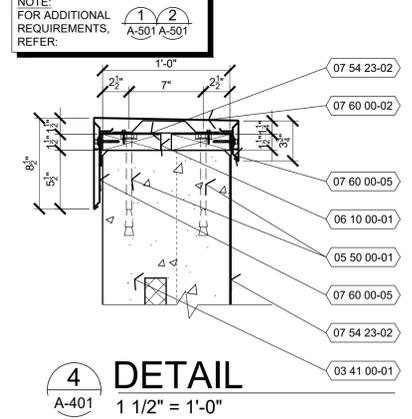
7 PLAN SECTION
A-401 1 1/2" = 1'-0"



6 PLAN SECTION
A-401 1 1/2" = 1'-0"



5 DETAIL
A-401 1 1/2" = 1'-0"



4 DETAIL
A-401 1 1/2" = 1'-0"

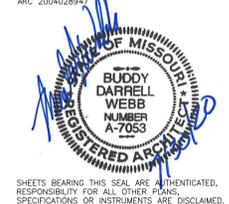
NOTE:
FOR FOOTINGS, FOUNDATIONS,
SLABS, AND REINFORCEMENT,
REFER TO STRUCTURAL
DRAWINGS.

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NOTE:
FOR ADDITIONAL
REQUIREMENTS,
REFER:

NOTE:
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REQUIREMENTS,
REFER:



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CAMP CLARK
TRAINING SITE
18159 SOUTH K HIGHWAY
NEVADA, MISSOURI

PROJECT # T2016-01
SITE # 6274
ASSET # 8136274080
BUILDING # 393

REVISION:
DATE:
REVISION:
DATE:
REVISION:
DATE:

ISSUE DATE: 07/30/2020

CAD DWG FILE: 6274-8136274080-A-402
DRAWN BY: BW-AP
CHECKED BY: BDW
DESIGNED BY: BW-AP

SHEET TITLE:
WALL SECTIONS

SHEET NUMBER:

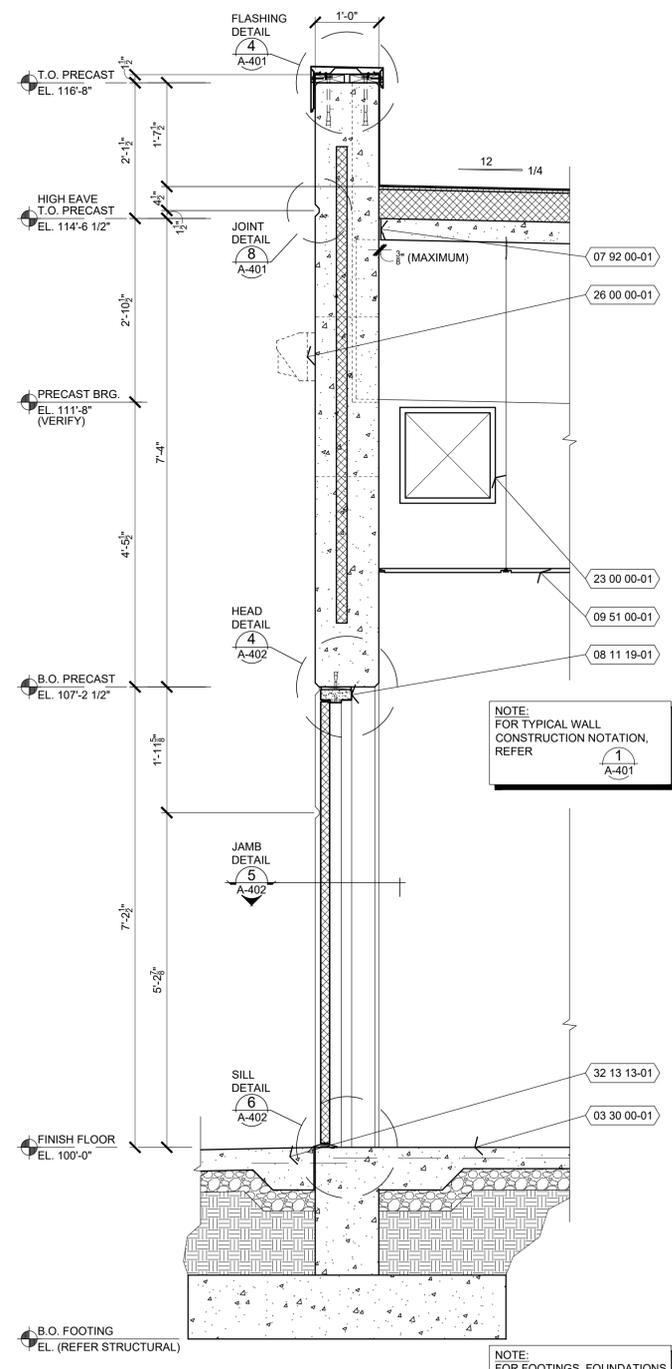
A-402

18 OF 27 SHEETS
07/30/2020

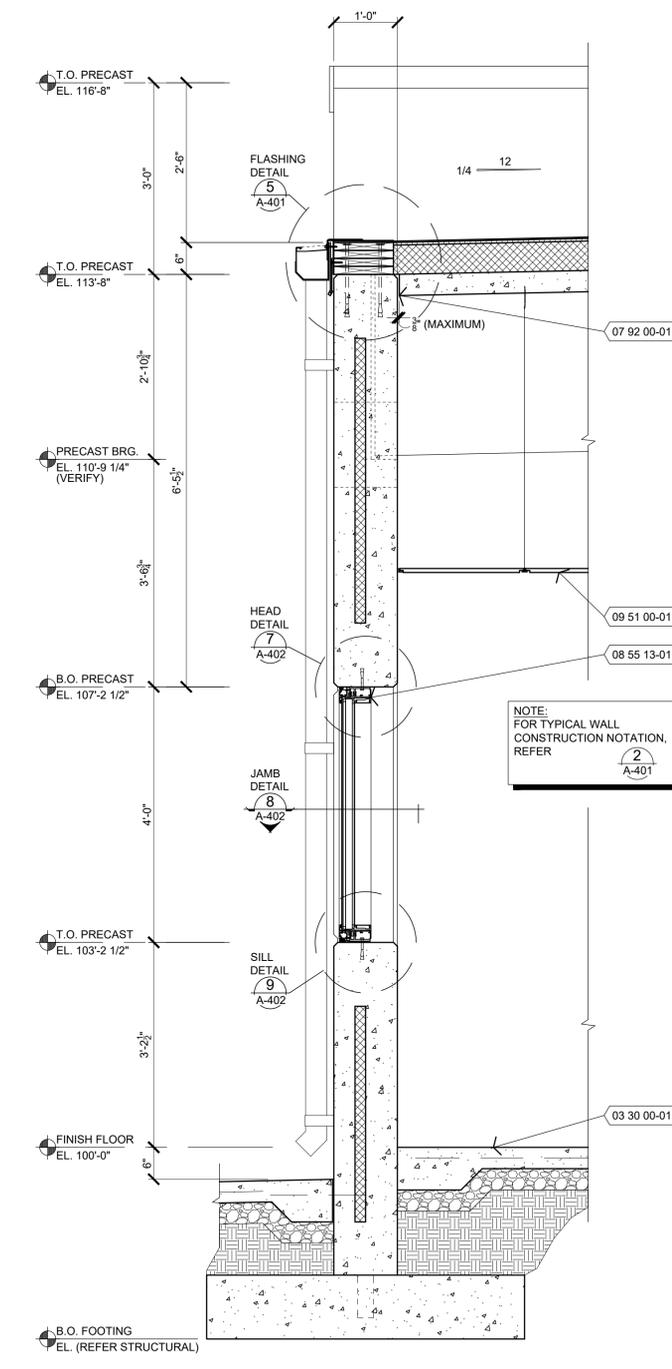
KEY NOTES

REFER TO SHEET A-301 FOR GENERAL NOTES.

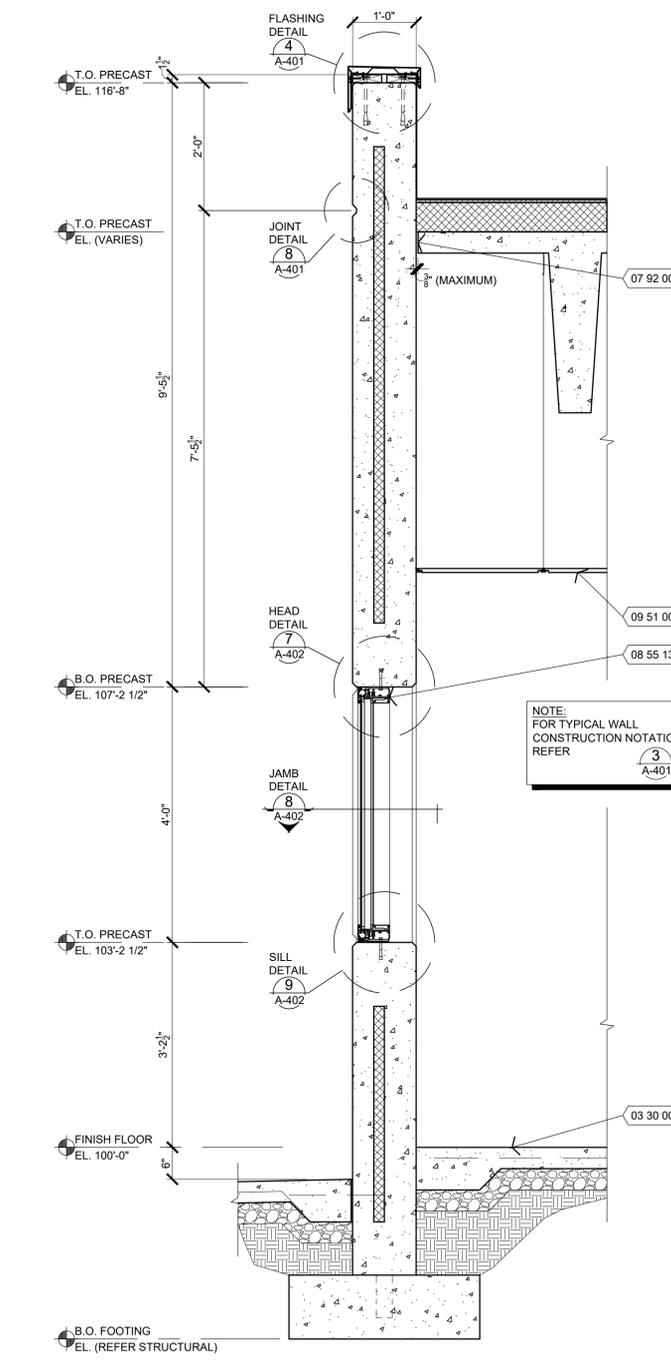
- 03 30 00-01 CONCRETE FLOOR SLAB, REFER TO STRUCTURAL DRAWINGS.
- 03 41 00-01 STRUCTURAL PRE-CAST CONCRETE COMPOSITE WALL PANEL SYSTEM WITH R-11 (MIN.) RIGID INSULATION AT EXTERIOR EXPOSED PANELS. REFER TO FLOOR PLAN AND EXTERIOR ELEVATIONS FOR PANEL LAYOUT.
- 03 41 00-02 STRUCTURAL PRE-CAST CONCRETE DOUBLE TEE (2'-10" OVERALL DEPTH) ROOF FRAMING MEMBERS. REFER TO STRUCTURAL PRECAST SHOP DRAWINGS. CAMBER SHALL NOT REDUCE 1/4:12 MINIMUM ROOF SLOPE.
- 03 41 00-03 STRUCTURAL PRE-CAST CONCRETE REVEAL JOINT.
- 05 50 00-01 1/2" DIA. GALVANIZED EXPANSION BOLTS OR GALVANIZED ALL THREAD ROD WITH EPOXY, AT 48" O.C. STAGGERED EXTENDING 8" MINIMUM INTO CONCRETE. PROVIDE NUTS WITH 1" DIA. MINIMUM WASHERS AND RECESS HEADS INTO NAILERS.
- 06 10 00-01 2X FIRE TREATED BLOCKING OR NAILER(S).
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- 33 40 00-01 DOWNSPOUT COLLECTION SYSTEM. REFER TO CIVIL DRAWINGS.



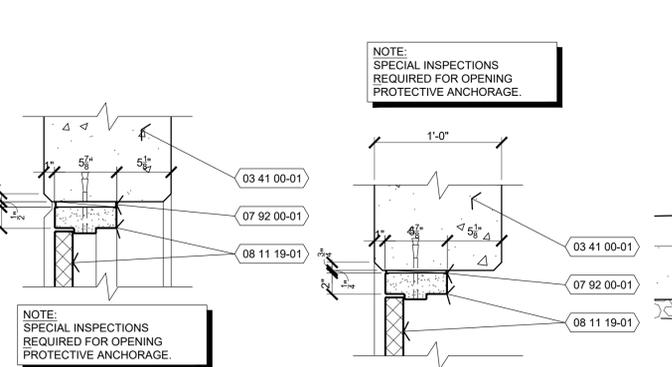
1 WALL SECTION
A-402 3/4" = 1'-0"



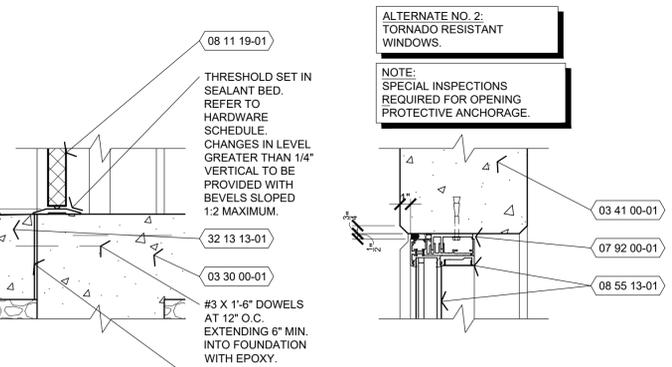
2 WALL SECTION
A-402 3/4" = 1'-0"



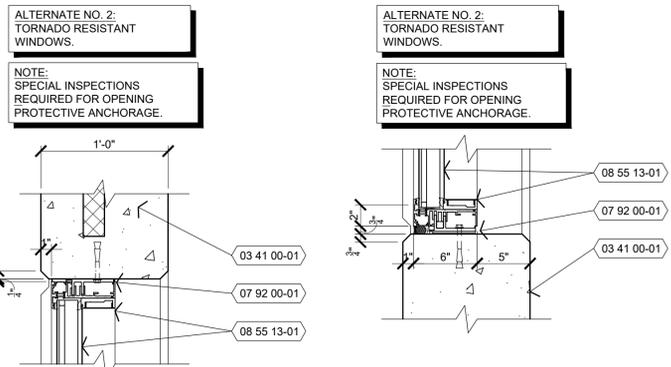
3 WALL SECTION
A-402 3/4" = 1'-0"



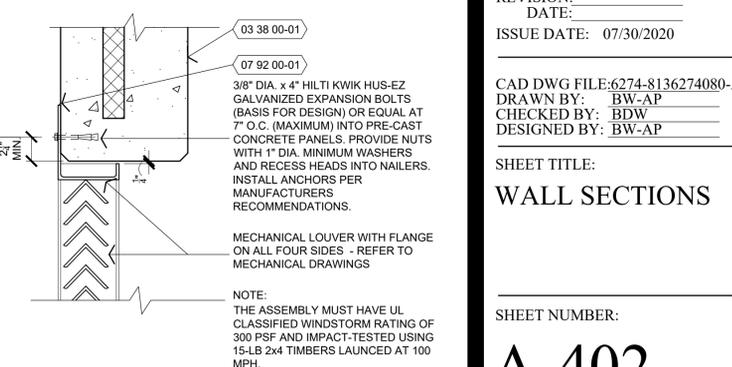
4 HEAD
A-402 1 1/2" = 1'-0"



5 JAMB
A-402 1 1/2" = 1'-0"



6 SILL
A-402 1 1/2" = 1'-0"



10 LOUVER HEAD DETAIL
A-402 1 1/2" = 1'-0"



NOTE: SPECIAL INSPECTIONS REQUIRED FOR OPENING PROTECTIVE ANCHORAGE.

THRESHOLD SET IN SEALANT BED. REFER TO HARDWARE SCHEDULE. CHANGES IN LEVEL GREATER THAN 1/4" VERTICAL TO BE PROVIDED WITH BEVELS SLOPED 1:2 MAXIMUM.

#3 X 1'-6" DOWELS AT 12" O.C. EXTENDING 6" MIN. INTO FOUNDATION WITH EPOXY.

EXPANSION JOINT WITH SEALANT.

ALTERNATE NO. 2: TORNADO RESISTANT WINDOWS.

NOTE: SPECIAL INSPECTIONS REQUIRED FOR OPENING PROTECTIVE ANCHORAGE.

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NOTE: SPECIAL INSPECTIONS REQUIRED FOR OPENING PROTECTIVE ANCHORAGE.

3/8" DIA. x 4" HILTI KWIK HUS-EZ GALVANIZED EXPANSION BOLTS (BASIS FOR DESIGN) OR EQUAL AT 7" O.C. (MAXIMUM) INTO PRE-CAST CONCRETE PANELS. PROVIDE NUTS WITH 1" DIA. MINIMUM WASHERS AND RECESS HEADS INTO NAILERS. INSTALL ANCHORS PER MANUFACTURER'S RECOMMENDATIONS.

MECHANICAL LOUVER WITH FLANGE ON ALL FOUR SIDES - REFER TO MECHANICAL DRAWINGS

NOTE: THE ASSEMBLY MUST HAVE UL CLASSIFIED WINDSTORM RATING OF 300 PSF AND IMPACT-TESTED USING 15-LB 2x4 TIMBERS LAUNCHED AT 100 MPH.



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18159 SOUTH K HIGHWAY
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PROJECT # T2016-01
SITE # 6274
ASSET # 8136274080
BUILDING # 393

REVISION:
DATE: _____
REVISION:
DATE: _____
REVISION:
DATE: _____
ISSUE DATE: 07/30/2020

CAD DWG FILE: 6274-8136274080-A-403
DRAWN BY: BW-AP
CHECKED BY: BDW
DESIGNED BY: BW-AP

SHEET TITLE:
ENLARGED PLAN /
INTERIOR
ELEVATIONS

SHEET NUMBER:

A-403

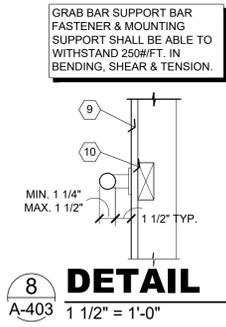
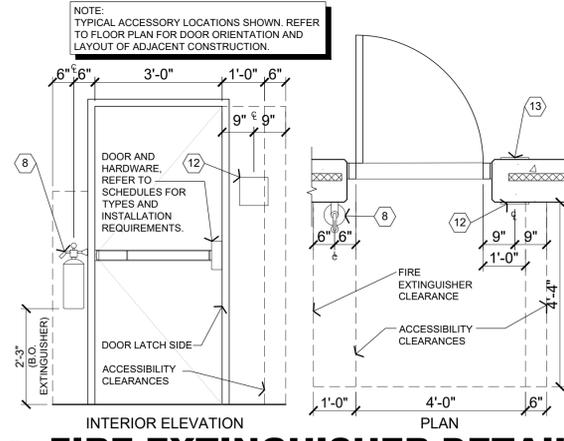
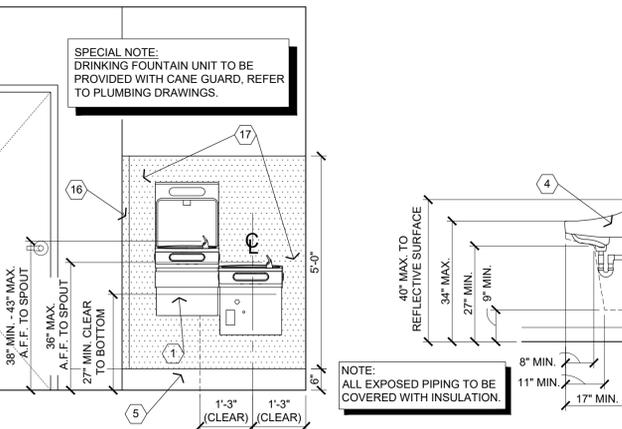
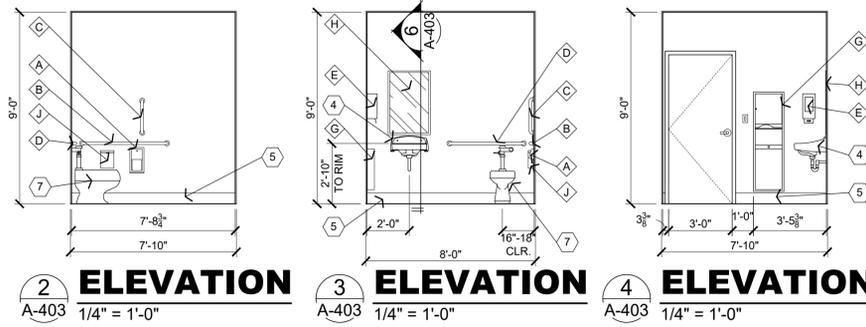
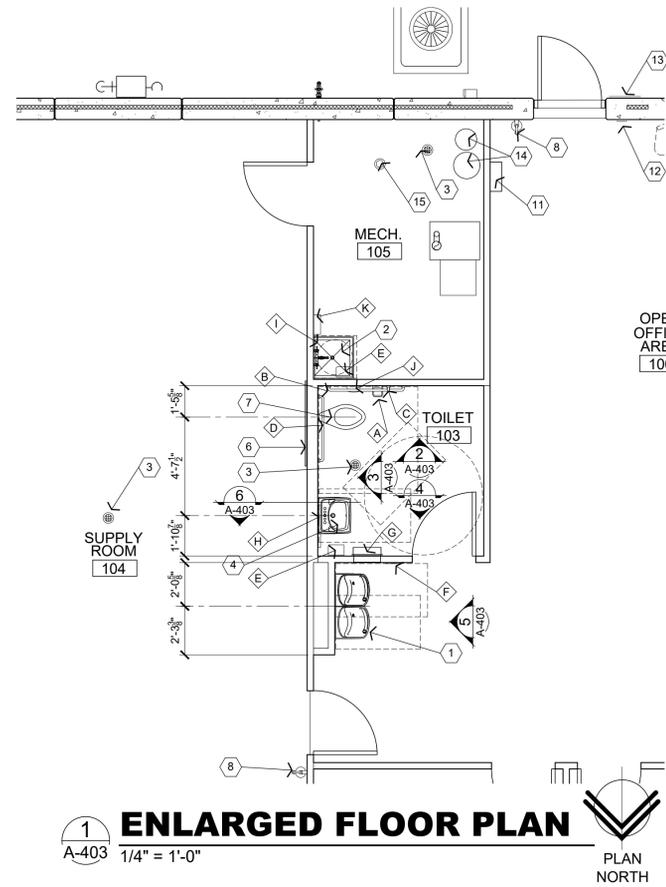
19 OF 27 SHEETS
07/30/2020

GENERAL NOTES

- (A) REFER TO PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS.
- (B) LAYOUT DIMENSIONS OF PLUMBING FIXTURES AND ACCESSORIES TO FACE OF GYPSUM BOARD OR CENTER LINE OF FIXTURE. LAYOUT DIMENSIONS OF WALLS AND CEILINGS TO ROUGH FACE OF FRAMING. ALL GYPSUM BOARD TO BE 5/8" UNLESS OTHERWISE NOTED.
- (C) REFER TO PLUMBING PLANS FOR PLUMBING FIXTURE TYPES.
- (D) REFER TO FINISH PLANS FOR MATERIALS AND FINISHES.
- (E) REFER TO FLOOR PLAN FOR WALL TYPES AND ASSEMBLIES.
- (F) PROVIDE FIRE TREATED BLOCKING AS REQUIRED FOR MOUNTING OF ACCESSORIES.

KEY NOTES

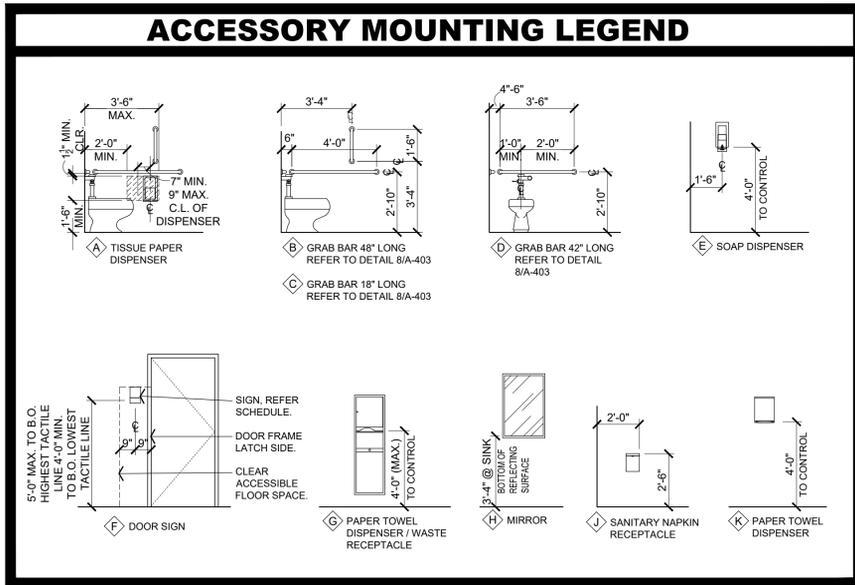
- (1) HIGH / LOW DRINKING FOUNTAIN WITH BOTTLE FILLING STATION REFER TO PLUMBING DRAWINGS.
- (2) JANITOR'S SINK WITH WATER HEATER MOUNTED ABOVE - REFER TO PLUMBING DRAWINGS. PROVIDE FIRE TREATED WOOD BLOCKING AS REQUIRED FOR INSTALLATION.
- (3) FLOOR DRAIN, REFER TO PLUMBING DRAWINGS.
- (4) WALL HUNG LAVATORY, REFER TO PLUMBING DRAWINGS.
- (5) BASE, REFER TO FINISH SCHEDULE.
- (6) 4'-0"X8'-0"X3/4" FIRE TREATED PLYWOOD TELEPHONE BOARD. COORDINATE EXACT LOCATION WITH TELECOMMUNICATION AND DATA CONTRACTOR, REFER TO ELECTRICAL DRAWINGS.
- (7) WATER CLOSET, ACCESSIBLE FIXTURE HEIGHT TO TOP OF SEAT TO BE 17" MINIMUM AND 19" MAXIMUM A.F.F. ACCESSIBLE FIXTURE FLUSH CONTROLS TO BE ON WIDE SIDE OF TOILET.
- (8) WALL MOUNTED FIRE EXTINGUISHER AT 27" ABOVE FINISH FLOOR TO BOTTOM OF EXTINGUISHER. FIRE EXTINGUISHERS SHALL BE UL LISTED ABC TYPE, MULTIPURPOSE DRY CHEMICAL, 10 LBS. MINIMUM CAPACITY. SURFACE MOUNTING BRACKET QUICK RELEASE TYPE. PROVIDE BLOCKING AS REQUIRED FOR MOUNTING, REFER TO DETAIL 7/A-403 FOR TYPICAL MOUNTING REQUIREMENTS.
- (9) WALL CONSTRUCTION, REFER TO FLOOR PLAN FOR TYPES.
- (10) FIRE TREATED 2X WOOD BLOCKING.
- (11) FIRST AID KIT (ANSI Z308.1, CLASS B, TYPE 1 CONTAINER). MOUNT TOP 48" MINIMUM ABOVE FINISH FLOOR. PROVIDE FIRE TREATED BLOCKING AS REQUIRED.
- (12) TACTILE EXIT SIGN AT EXIT DISCHARGE DOOR STATING "EXIT" WITH BRAILLE (GRADE 2 CONTRACTED) LETTERING. SIGN CONSTRUCTION AND LOCATION TO COMPLY WITH ACCESSIBILITY CODE. MOUNT 48" MINIMUM ABOVE FINISH FLOOR TO BOTTOM OF LOWEST TACTILE CHARACTER AND 60" MAXIMUM ABOVE FINISH FLOOR TO BOTTOM OF HIGHEST TACTILE CHARACTER. REFER TO DETAIL 7/A-403 FOR TYPICAL MOUNTING REQUIREMENTS.
- (13) "TORNADO SHELTER" SIGN, REFER TO DETAIL 1/G-101 AND FLOOR PLAN FOR ADDITIONAL REQUIREMENTS.
- (14) WATER SOFTENER, REFER TO PLUMBING DRAWINGS.
- (15) SEWER CLEAN-OUT, REFER TO PLUMBING DRAWINGS.
- (16) 1 1/2" x 1 1/2" STAINLESS STEEL (24 GA. WITH US32D FINISH) CORNER GUARD.
- (17) STAINLESS STEEL (24 GA. WITH US32D FINISH) WALL COVERING WITH EXPOSED EDGES BEVELED.

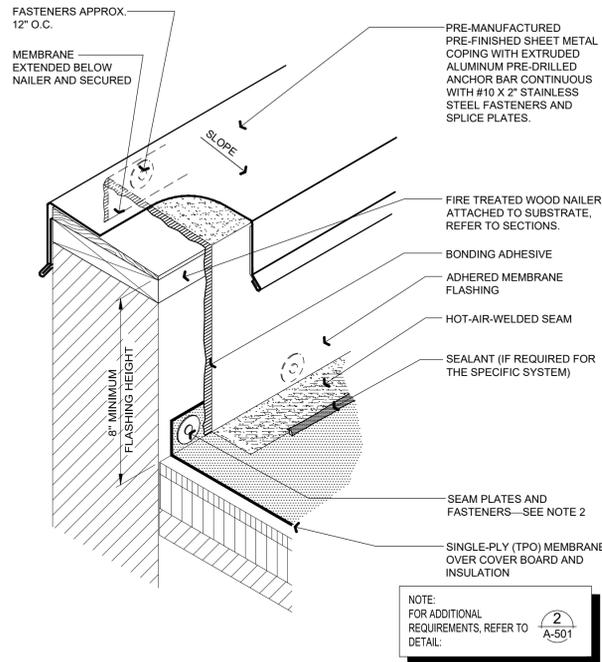


ACCESSORY SCHEDULE					
MK	DESCRIPTION	MANUFACTURER	SERIES / MODEL	MOUNTING LOCATION	ACCESSORY NOTES
(A)	TISSUE PAPER DISPENSER	(REFER TO PROJECT MANUAL)	DOUBLE ROLL, STACKED	REFER PLANS, ELEVATIONS, LEGEND	
(B)	GRAB BAR	(REFER TO PROJECT MANUAL)	48" LENGTH	REFER PLANS, ELEVATIONS, LEGEND	
(C)	GRAB BAR	(REFER TO PROJECT MANUAL)	18" LENGTH	REFER PLANS, ELEVATIONS, LEGEND	
(D)	GRAB BAR	(REFER TO PROJECT MANUAL)	42" LENGTH	REFER PLANS, ELEVATIONS, LEGEND	
(E)	SOAP DISPENSER	---	---	REFER PLANS, ELEVATIONS, LEGEND	NOTE 1
(F)	DOOR SIGN (UNISEX)	(REFER TO PROJECT MANUAL)	(REFER TO PROJECT MANUAL)	REFER PLANS, ELEVATIONS, LEGEND	NOTE 3
(G)	PAPER TOWEL DISPENSER / WASTE RECEPTACLE	(REFER TO PROJECT MANUAL)	(REFER TO PROJECT MANUAL)	REFER PLANS, ELEVATIONS, LEGEND	NOTE 3
(H)	MIRROR	(REFER TO PROJECT MANUAL)	24" W X 36" H	REFER PLANS, ELEVATIONS, LEGEND	
(I)	UTILITY SHELF AND MOP HANGER	(REFER TO PROJECT MANUAL)	(REFER TO PROJECT MANUAL)	TOP OF SHELF 60" A.F.F.	NOTE 2
(J)	SANITARY NAPKIN RECEPTACLE	(REFER TO PROJECT MANUAL)	(REFER TO PROJECT MANUAL)	REFER PLANS, ELEVATIONS, LEGEND	NOTE 1
(K)	PAPER TOWEL DISPENSER	(REFER TO PROJECT MANUAL)	(REFER TO PROJECT MANUAL)	REFER PLANS, ELEVATIONS, LEGEND	NOTE 1

ACCESSORY GENERAL NOTES:

- OWNER FURNISHED AND CONTRACTOR INSTALLED.
- REFER TO PLUMBING DRAWINGS.
- TACTILE (BRAILLE GRADE 2 CONTRACTED) SIGN WITH PICTOGRAMS IN COMPLIANCE WITH ANSI A117.1 AND ADA STANDARDS. COLORS WHITE TEXT AND SYMBOLS ON BLUE (NO. 15090 IN FEDERAL STANDARD 595B) BACKGROUND.

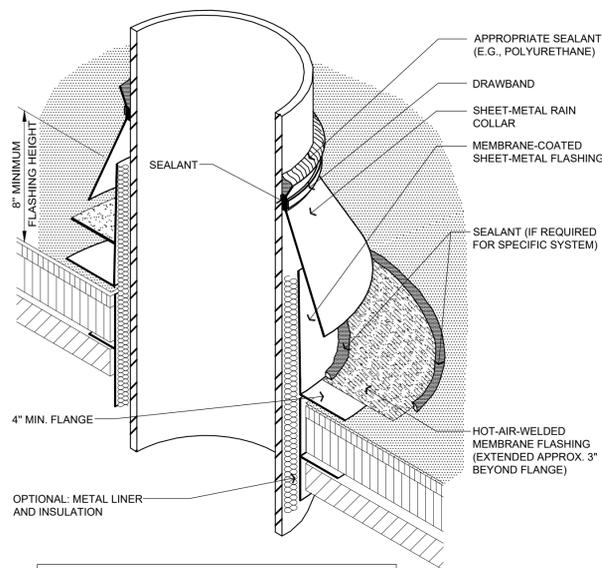




- NOTES:
- THIS DETAIL DOES NOT ALLOW FOR DIFFERENTIAL MOVEMENT BETWEEN THE DECK AND WALL.
 - REFER TO THE INTRODUCTION OF THE CONSTRUCTION DETAILS CHAPTER FOR ALTERNATIVE BASE SECUREMENT OPTIONS.
 - REFER TO THE ARCHITECTURAL METAL FLASHING SECTION OF THE NRCA ROOFING MANUAL: ARCHITECTURAL METAL FLASHING, CONDENSATION AND AIR LEAKAGE CONTROL, AND REROOFING FOR DESIGN, JOINERY AND SECUREMENT OPTIONS.

BASE FLASHING AT PARAPET WALL WITH METAL COPING

1 DETAIL
A-501 NOT TO SCALE

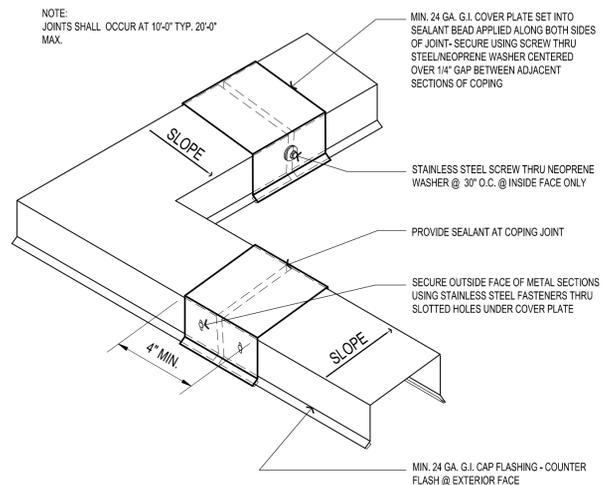


NOTE:
ANY ROOF PENETRATION LARGER THAN 3 1/2" OR 2 1/16" DIAMETER MUST SATISFY ICC 500 (2014) SECTION 306.3. ANY OPENING SHALL NOT DEGRADE THE STRUCTURAL INTEGRITY OF THE STORM SHELTER AND MISSILE IMPACT RESISTANCE OF THE STORM SHELTER.

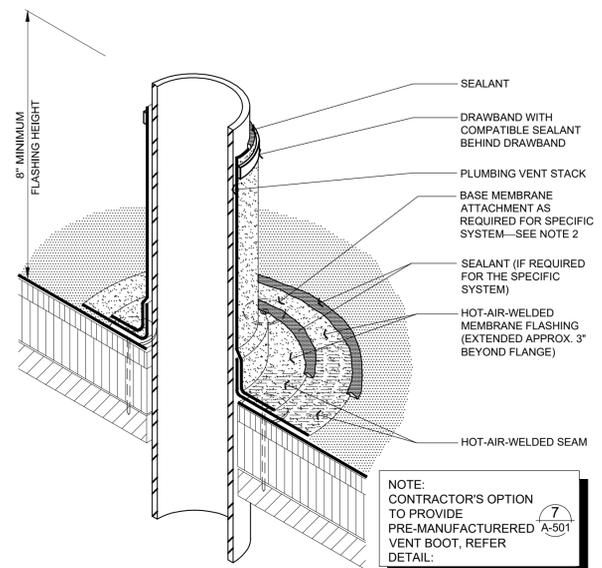
- NOTES:
- THE CLEARANCE NECESSARY BETWEEN THE OPTIONAL INSULATION AND METAL LINER AND THE STACK WILL DEPEND ON THE TEMPERATURE OF THE MATERIAL HANDLED BY THE STACK.
 - REFER TO MANUFACTURERS' SPECIFICATIONS FOR SPECIFIC REQUIREMENTS FOR BASE MEMBRANE ATTACHMENT AND PLACEMENT. MECHANICALLY ATTACHED SYSTEMS GENERALLY HAVE SPECIFIC ATTACHMENT REQUIREMENTS FOR PENETRATION LOCATIONS.

SHEET-METAL STACK VENT [HOT OR COLD]

5 DETAIL
A-501 NOT TO SCALE



2 DETAIL
A-501 NOT TO SCALE

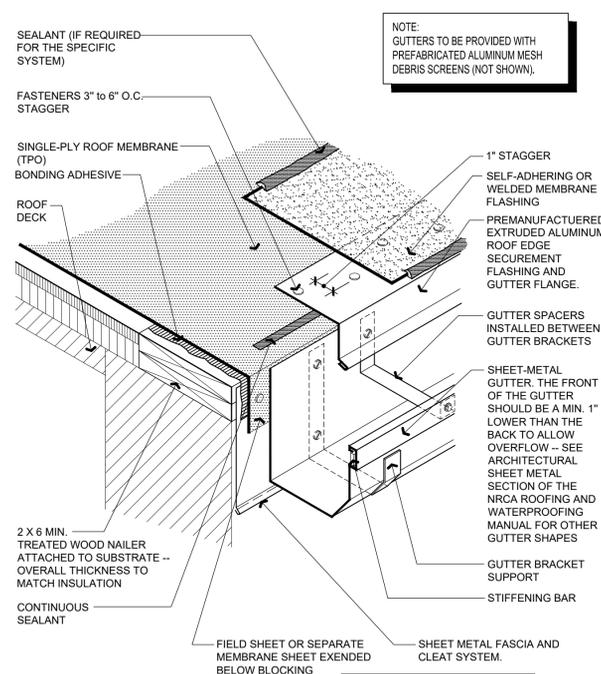


NOTE:
ANY ROOF PENETRATION LARGER THAN 3 1/2" OR 2 1/16" DIAMETER MUST SATISFY ICC 500 (2014) SECTION 306.3. ANY OPENING SHALL NOT DEGRADE THE STRUCTURAL INTEGRITY OF THE STORM SHELTER AND MISSILE IMPACT RESISTANCE OF THE STORM SHELTER.

- NOTES:
- VENT STACKS AND OTHER PIPES SHOULD HAVE A MINIMUM OF 12 INCHES OF CLEARANCE ON ALL SIDES FROM WALLS, CURBS AND OTHER PROJECTIONS TO FACILITATE PROPER FLASHING. SEE THE INTRODUCTION TO THE CONSTRUCTION DETAILS FOR ADDITIONAL INFORMATION.
 - NRCA RECOMMENDS FLASHINGS BE 8 INCHES HIGH; HOWEVER, NRCA IS AWARE PREMANUFACTURED BOOT FLASHINGS GENERALLY WILL NOT MEET THE HEIGHT REQUIREMENT.
 - REFER TO MANUFACTURERS' SPECIFICATIONS FOR SPECIFIC REQUIREMENTS FOR BASE MEMBRANE ATTACHMENT AND PLACEMENT. MECHANICALLY ATTACHED SYSTEMS GENERALLY HAVE SPECIFIC ATTACHMENT REQUIREMENTS FOR PENETRATION LOCATIONS.

PLUMBING VENT [FIELD WRAP]

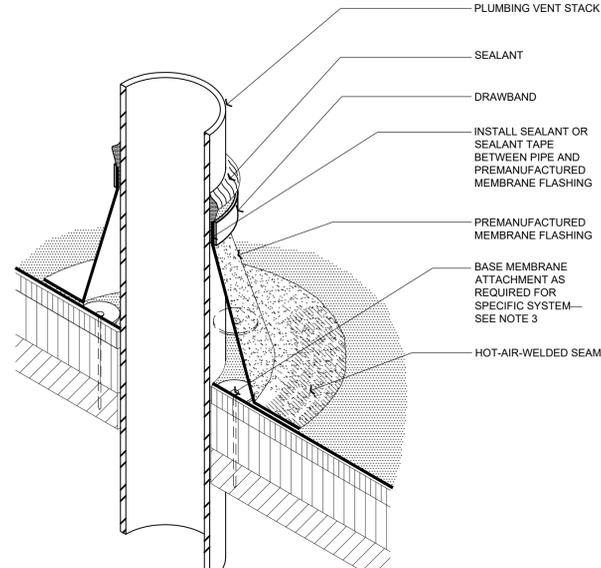
6 DETAIL
A-501 NOT TO SCALE



- NOTES:
- GUTTER BRACKETS ARE RECOMMENDED TO BE AT LEAST ONE GAUGE HEAVIER THAN GUTTER STOCK.
 - REFER TO THE ARCHITECTURAL SHEET METAL SECTION OF THE NRCA ROOFING AND WATERPROOFING MANUAL FOR JOINERY AND SECUREMENT OPTIONS FOR SHEET METAL.
 - REFER TO THE SINGLE-PLY INTRODUCTION FOR ADDITIONAL INFORMATION.

GUTTER

3 DETAIL
A-501 NOT TO SCALE

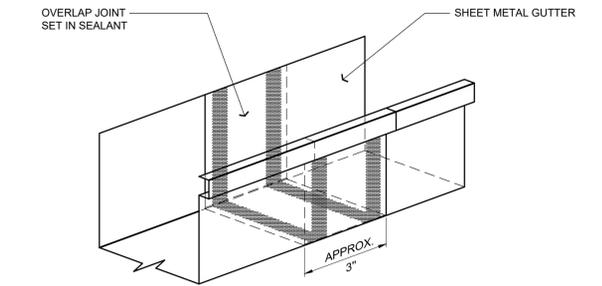


NOTE:
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- NOTES:
- VENT STACKS AND OTHER PIPES SHOULD HAVE A MINIMUM OF 12 INCHES OF CLEARANCE ON ALL SIDES FROM WALLS, CURBS AND OTHER PROJECTIONS TO FACILITATE PROPER FLASHING. SEE THE INTRODUCTION TO THE CONSTRUCTION DETAILS FOR ADDITIONAL INFORMATION.
 - NRCA RECOMMENDS FLASHINGS BE 8 INCHES HIGH; HOWEVER, NRCA IS AWARE PREMANUFACTURED BOOT FLASHINGS GENERALLY WILL NOT MEET THE HEIGHT REQUIREMENT.
 - REFER TO MANUFACTURERS' SPECIFICATIONS FOR SPECIFIC REQUIREMENTS FOR BASE MEMBRANE ATTACHMENT AND PLACEMENT. MECHANICALLY ATTACHED SYSTEMS GENERALLY HAVE SPECIFIC ATTACHMENT REQUIREMENTS FOR PENETRATION LOCATIONS.

PLUMBING VENT [PREMANUFACTURED BOOT]

7 DETAIL
A-501 NOT TO SCALE



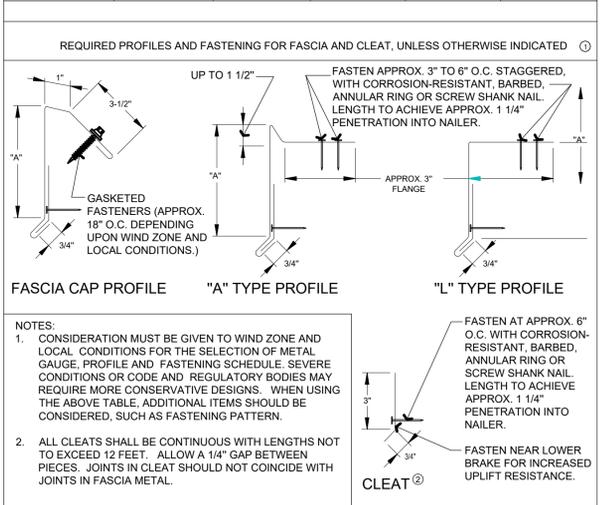
- NOTES:
- GUTTER PROFILES AND SIZE VARY.
 - APPROPRIATE FASTENERS (E.G. POP-RIVETS) COVERED WITH SEALANT - NOT SHOWN FOR CLARITY.

GUTTER JOINERY

4 DETAIL
A-501 NOT TO SCALE

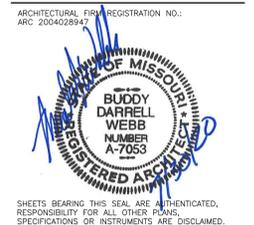
REQUIRED MINIMUM GAUGES FOR FASCIA AND CLEAT, UNLESS OTHERWISE INDICATED ①

EXPOSED FACE WITHOUT BRAKES "A" DIMENSION	ALUMINUM ALLOY (3003-H14)	COLD ROLLED COPPER	GALVANIZED OR COATED (G90) STEEL	STAINLESS STEEL (302 OR 304)	CLEAT ②
UP TO 3" FACE	.040"	20 oz.	24 ga.	24 ga.	NOT REQUIRED
UP TO 3" FACE	.032"	16 oz.	26 ga.	26 ga.	SAME GAUGE AS FASCIA METAL
3" TO 6" FACE	.040"	16 oz.	24 ga.	24 ga.	SAME GAUGE AS FASCIA METAL
6" TO 8" FACE	.050"	20 oz.	24 ga.	24 ga.	ONE GAUGE HEAVIER THAN FASCIA METAL
8" TO 15" FACE	ADD BRAKES TO STIFFEN OR USE TWO-PIECE FACE	ADD BRAKES TO STIFFEN OR USE TWO-PIECE FACE	ADD BRAKES TO STIFFEN OR USE TWO-PIECE FACE	ADD BRAKES TO STIFFEN OR USE TWO-PIECE FACE	ONE GAUGE HEAVIER THAN FASCIA METAL



- NOTES:
- CONSIDERATION MUST BE GIVEN TO WIND ZONE AND LOCAL CONDITIONS FOR THE SELECTION OF METAL GAUGE, PROFILE AND FASTENING SCHEDULE. SEVERE CONDITIONS OR CODE AND REGULATORY BODIES MAY REQUIRE MORE CONSERVATIVE DESIGNS. WHEN USING THE ABOVE TABLE, ADDITIONAL ITEMS SHOULD BE CONSIDERED, SUCH AS FASTENING PATTERN.
 - ALL CLEATS SHALL BE CONTINUOUS WITH LENGTHS NOT TO EXCEED 12 FEET. ALLOW A 1/4" GAP BETWEEN PIECES. JOINTS IN CLEAT SHOULD NOT COINCIDE WITH JOINTS IN FASCIA METAL.

8 DETAIL
A-501 NOT TO SCALE



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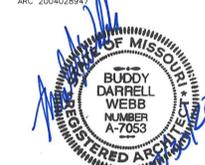
PROJECT # T2016-01
SITE # 6274
ASSET # 8136274080
BUILDING # 393

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DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
ISSUE DATE: 07/30/2020

CAD DWG FILE: 6274-8136274080-A-501
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CHECKED BY: BDW
DESIGNED BY: BW-AP

SHEET TITLE:
**ROOFING
DETAILS**

SHEET NUMBER:
A-501



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ISSUE DATE: 07/30/2020

CAD DWG FILE: 6274-8136274081-A-601
DRAWN BY: BW-AP
CHECKED BY: BDW
DESIGNED BY: BW-AP

SHEET TITLE:
**DOOR AND
WINDOW
SCHEDULES**

SHEET NUMBER:

A-601

21 OF 27 SHEETS
07/30/2020

GENERAL NOTES

- (A) REFER TO PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS.
- (B) REFER TO BUILDING CODE SUMMARY AND STRUCTURAL DRAWINGS FOR PROJECT STRUCTURAL DESIGN CRITERIA. SUBMITTALS SHALL INCLUDE OPENING MANUFACTURER'S REQUIREMENTS FOR OPENING ANCHOR TYPES, SPACING, AND LOCATIONS REQUIRED FOR PROJECT CONDITIONS.
- (C) ICC 500 TORNADO RESISTANT OPENING PROTECTIVE ASSEMBLIES SHALL BE LABELED BY APPROVED AGENCY DENOTING COMPLIANCE WITH TESTING AND CERTIFICATION REQUIREMENTS SPECIFIED. ANCHORAGE SYSTEMS REQUIRE SPECIAL INSPECTIONS BE CONDUCTED DURING INSTALLATION.
- (D) DIMENSIONS TO ROUGH FACE OF OPENING UNLESS OTHERWISE INDICATED. FIELD VERIFY FINAL ROUGH OPENING DIMENSIONS PRIOR TO OPENING ASSEMBLY FABRICATION.
- (E) WINDOW TYPE ELEVATIONS SHOWN VIEWED FROM EXTERIOR SIDE.
- (F) HARDWARE TO BE ADA AND ANSI A117.1 COMPLIANT.
- (G) VERIFY COMPATIBILITY OF HARDWARE SPECIFIED. NOTIFY ARCHITECT OF INCOMPATIBILITY ISSUES PRIOR TO ORDERING AND INSTALLATION.
- (H) KEYPED HARDWARE TO BE COMPATIBLE WITH OWNER'S KEYS (BEST 7 PIN) SYSTEM. ALL EXTERIOR DOORS TO BE KEYPED ALIKE. ALL HARDWARE CONTRACTOR FURNISHED AND INSTALLED. COORDINATE ORDERING AND DELIVERY REQUIREMENTS WITH OWNER.
- (I) DOORS SHALL BE SHOP PREPARED FOR HARDWARE.
- (J) HARDWARE TO BE GRADE 1 (HEAVY DUTY COMMERCIAL).
- (K) REFER TO EXTERIOR FINISH SCHEDULE AND INTERIOR FINISH PLAN FOR ADDITIONAL REQUIREMENTS.

HARDWARE KEYING LEGEND

GENERAL:

LEVEL 1:
UPGRADED SECURITY: PERIMETER ENTRANCE

LEVEL 2:
BASIC SECURITY: OFFICE, GENERAL STORAGE

LEVEL 3:
BASIC SECURITY: MAINTENANCE, MECHANICAL / ELECTRICAL, JANITOR

GLAZING SCHEDULE

TYPE 1 - (ALTERNATE NO. 2)
ICC-500 TORNADO SHELTER COMPLIANT INSULATED GLAZING SYSTEM;
NOTE: MANUFACTURER'S VARIATIONS OF GLAZING ASSEMBLY ACCEPTABLE PROVIDED MATERIALS AND FABRICATION MEETS OR EXCEEDS COMPLIANCE WITH PERFORMANCE REQUIREMENTS.

EXTERIOR PANE: 1/4" TINTED (GRAY) - (2) SURFACE, HEAT-TREATED (FT)
AIR CAVITY: 1/2"
INTERIOR PANE: 1" TO 1 3/4" MULTI-LAYER HEAT-TREATED (FT) POLYCARBONATE LAMINATED REINFORCED, SPUTTER-COATED (LOW-E) - (3) SURFACE

PERFORMANCE REQUIREMENTS:
VISIBLE LIGHT TRANSMITTANCE (VLT): 13
VISIBLE LIGHT REFLECTANCE (EXTERIOR %): 11
VISIBLE LIGHT REFLECTANCE (INTERIOR %): 27
(NFRC) U-VALUE (WINTER NIGHTTIME): 0.28
SOLAR HEAT GAIN COEFFICIENT (SHGC): 0.21
LIGHT TO SOLAR GAIN (LSG): 0.93
STRUCTURAL DESIGN PRESSURE (250 MPH) TEST (ASTM E330): PASS
LARGE MISSILE IMPACT (15# @ 100 MPH) TEST (ASTM E1886): PASS

TYPE 2:
1/4" CLEAR SAFETY (FULLY TEMPERED) GLAZING.

HARDWARE SCHEDULE

SET NO. 1 (DOOR: 100)

- NOTE: COMPONENTS AND ASSEMBLY TO BE ICC 500 COMPLIANT.
- CONTINUOUS GEARED HINGE
 - EXTERIOR CYLINDER REMOVABLE CORE
 - (ANSI FUNCTION NO. F21) ENTRANCE MORTIS LOCK WITH THREE POINT LOCKING, DUST PROOF BOTTOM STRIKE, EXTERIOR ESCUTCHEON TRIM WITH MORTIS CYLINDER (REMOVABLE CORE), LEVER HANDLES
 - CLOSER WITH COVER, PARALLEL ARM, SPRING CUSH, THRU-BOLT MOUNTED, (ADJUST TO 8.5 LBS.)
 - KICK PLATE (0.062T X 12"H X 2" L.D.W.)
 - SET PERIMETER SEAL GASKETS (WEATHER PROOF)
 - DOOR BOTTOM SWEEP (WEATHER PROOF)
 - THRESHOLD (ADA / ANSI COMPLIANT)
 - RAIN DRIP

SET NO. 2 (DOORS: 101, 102)

- BALL BEARING HINGES
- EXTERIOR CYLINDER REMOVABLE CORE
- (ANSI FUNCTION NO. F82) OFFICE LOCK WITH CYLINDER (REMOVABLE CORE), LEVER HANDLES
- WALL STOP

SET NO. 3 (DOOR: 103)

- BALL BEARING HINGES
- (ANSI FUNCTION NO. F76) PRIVACY LOCK WITH LEVER HANDLES
- WALL STOP

SET NO. 4 (DOOR: 104A)

- BALL BEARING HINGES
- (ANSI FUNCTION NO. F86) STOREROOM LOCK WITH LEVER HANDLES
- CLOSER WITH COVER, PARALLEL ARM, SPRING CUSH STOP, THRU-BOLT MOUNTED, (ADJUST TO 5 LBS.)
- KICK PLATE (0.062T X 12"H X 2" L.D.W.)
- SET PERIMETER SMOKE SEAL GASKETS
- SMOKE SEAL DOOR BOTTOM SWEEP
- WALL STOP

SET NO. 5 (DOOR: 104B)

- NOTE: COMPONENTS AND ASSEMBLY TO BE ICC 500 COMPLIANT.
- CONTINUOUS GEARED HINGES
 - EXTERIOR CYLINDER REMOVABLE CORES
 - (ANSI FUNCTION NO. 08) EXIT PANICS WITH TWO POINT LOCKING SURFACE VERTICAL RODS, COVER GUARDS, DUST PROOF BOTTOM STRIKES, EXTERIOR ESCUTCHEON TRIM WITH RIM CYLINDERS (REMOVABLE CORES), EXTERIOR LEVER HANDLES, THRU-BOLT MOUNTED
 - CLOSERS WITH COVER, PARALLEL ARM, SPRING CUSH, THRU-BOLT MOUNTED, (ADJUST TO 8.5 LBS.)
 - KICK PLATES (0.062T X 12"H X 2" L.D.W.)
 - SET PERIMETER SEAL GASKETS (WEATHER PROOF)
 - DOOR BOTTOM SWEEPS (WEATHER PROOF)
 - THRESHOLD (ADA / ANSI COMPLIANT)
 - RAIN DRIP

SET NO. 6 (DOOR: 105)

- BALL BEARING HINGES
- (ANSI FUNCTION NO. F86) STOREROOM LOCK WITH LEVER HANDLES
- WALL STOP

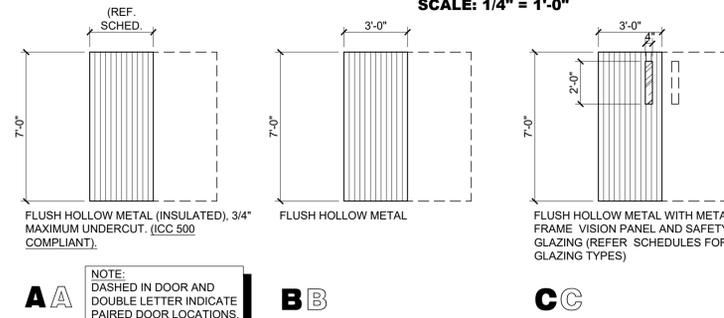
DOOR SCHEDULE

MARK	DOOR				HARDWARE		FRAME		DETAILS				FIRE RATING	DOOR SCHEDULE NOTES	
	SIZE (W x H x D)	TYPE	SWING	MATERIAL	GLAZ. TYPE	SET #	KEYED	TYPE	MATERIAL	HEAD WIDTH	HEAD	JAMB			SILL
100	3'-0" X 7'-0" X 1 3/4"	A	RHR	HOL. METAL	---	1	LEVEL 1	2	HOL. METAL		4/A-402	5/A-402	6/A-402		1 & 2
101	3'-0" X 7'-0" X 1 3/4"	C	RH	HOL. METAL	2	2	LEVEL 2	1	HOL. METAL		1/A-601	2/A-601	-		1
102	3'-0" X 7'-0" X 1 3/4"	C	LH	HOL. METAL	2	2	LEVEL 2	1	HOL. METAL		1/A-601	2/A-601	-		1
103	3'-0" X 7'-0" X 1 3/4"	B	RH	HOL. METAL	---	3			HOL. METAL		1/A-601	2/A-601	-		1
104A	3'-0" X 7'-0" X 1 3/4"	C	LHR	HOL. METAL	2	4	LEVEL 2	1	HOL. METAL		1/A-601	2/A-601	-	20 MIN.	1
104B	(PAIR) 4'-0" X 7'-0" X 1 3/4"	AA	RHR/LHR	HOL. METAL	---	5	LEVEL 1	2	HOL. METAL		4/A-402	5/A-402	6/A-402		1 & 2
105	3'-0" X 7'-0" X 1 3/4"	B	LHR	HOL. METAL	---	6	LEVEL 3	1	HOL. METAL		1/A-601	2/A-601	-		1

- NOTES:
1. ALL DOORS SHALL BE SHOP PREPARED FOR HARDWARE.
2. PROTECTIVE OPENING ASSEMBLY SHALL BE ICC 500 COMPLIANT. REFER TO GENERAL NOTES FOR ADDITIONAL REQUIREMENTS.

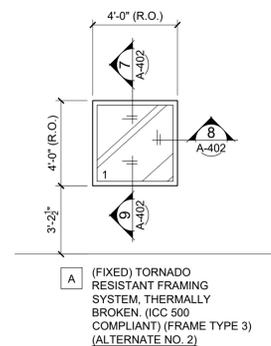
DOOR TYPES

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



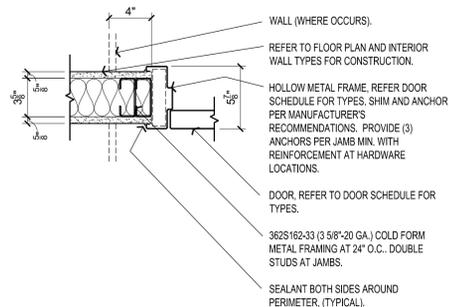
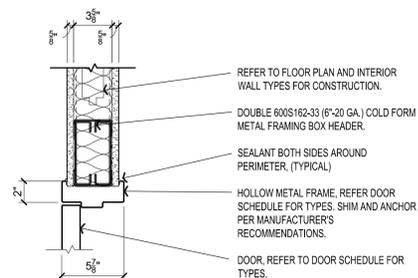
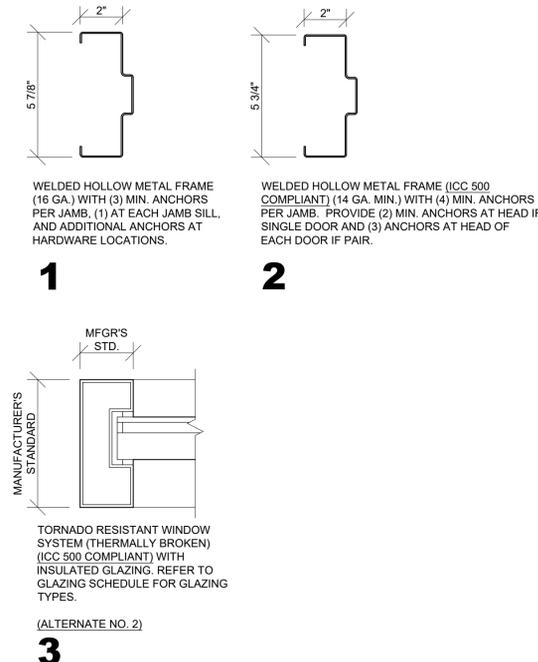
WINDOW SCHEDULE

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



FRAME TYPES

SCALE: 3" = 1'-0"





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GENERAL NOTES

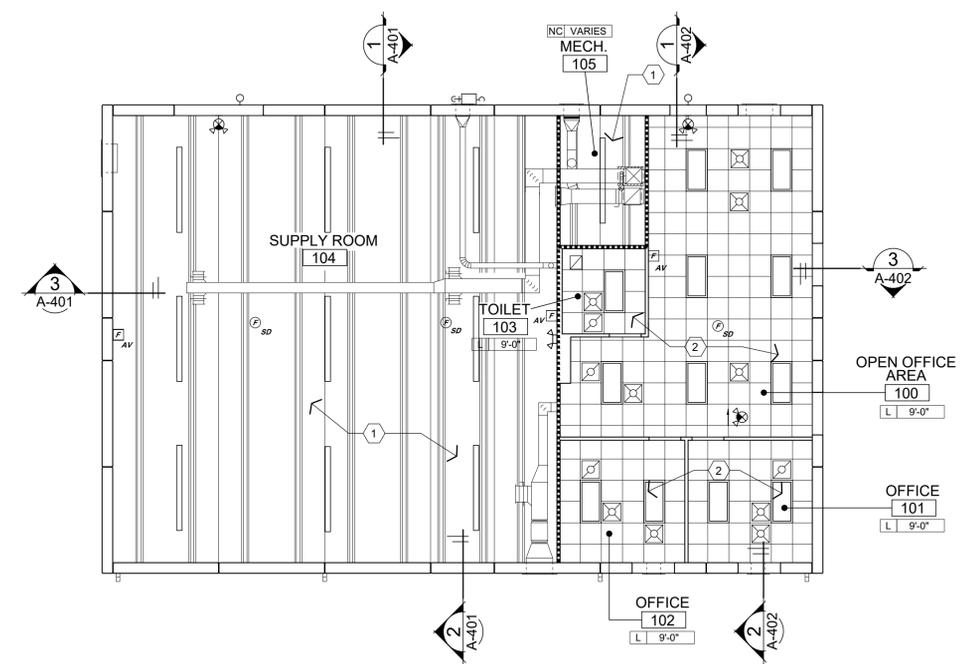
- (A) REFER TO PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS.
- (B) REFER TO INTERIOR WALL AND CEILING GENERAL NOTES FOR ADDITIONAL REQUIREMENTS.
- (C) MECHANICAL REGISTERS ARE SHOWN ON THIS DRAWING FOR THE ARCHITECTURAL LOCATIONS ONLY. REFER TO MECHANICAL DRAWINGS FOR TYPES, SIZES, DISTRIBUTION, CONNECTIONS, AND ALL OTHER REQUIREMENTS.
- (D) LIGHTING FIXTURES ARE SHOWN ON THIS DRAWING FOR THE ARCHITECTURAL LOCATIONS, QUANTITIES, AND GENERAL FIXTURE TYPE ONLY. REFER TO ELECTRICAL DRAWINGS FOR EXACT FIXTURE TYPE AND CIRCUITING.
- (E) CONTRACTOR SHALL COORDINATE THE INSTALLATION OF THE VARIOUS TRADE ITEMS WITHIN THE SPACE ABOVE ALL CEILINGS (INCLUDING, BUT NOT LIMITED TO: STRUCTURAL MEMBERS, MECHANICAL DUCTS AND INSULATION, CONDUITS, RACEWAYS, LIGHT FIXTURES, CEILING SYSTEMS, AND ANY SPECIAL STRUCTURAL SUPPORTS REQUIRED) AND SHALL BE RESPONSIBLE FOR MAINTAINING THE FINISH CEILING HEIGHT ABOVE THE FINISH FLOOR INDICATED ON THE DRAWING.
- (F) REFER TO INTERIOR FINISH PLAN FOR FINISH TYPES.
- (G) PROVIDE SUSPENDED ACOUSTICAL CEILING TILE HOLD DOWN CLIPS AT AREAS SUBJECT TO UPLIFT. EXTEND 8'-0" MINIMUM AT INTERIOR AND EXTERIOR DOOR LOCATIONS.
- (H) INDICATED CEILING ELEVATIONS TO BOTTOM OF FRAMING AT GYPSUM BOARD CONSTRUCTION AND BOTTOM OF SUSPENDED ACOUSTICAL CEILING GRID CONSTRUCTION, UNLESS OTHERWISE NOTED.
- (I) PROVIDE SUSPENDED CEILING SEISMIC BRACING, REFER TO DETAIL 2/A-701.
- (J) COORDINATE ATTACHMENT REQUIREMENTS TO ROOF STRUCTURE WITH STRUCTURAL PRECAST CONCRETE FABRICATOR.
- (K) EXPOSED MECHANICAL AND ELECTRICAL SYSTEMS TO BE INSTALLED IN A NEAT AND ORDERLY LAYOUT. PROVIDE FRAMING, SUPPORTS AND ATTACHMENTS AS REQUIRED FOR A COMPLETE SYSTEM.

KEY NOTES

- (1) EXPOSED UNFINISHED STRUCTURE, MECHANICAL AND ELECTRICAL SYSTEMS.
- (2) SUSPENDED ACOUSTICAL CEILING SYSTEM - REFER TO INTERIOR FINISH PLANS FOR FINISHES.

SYMBOLS LEGEND

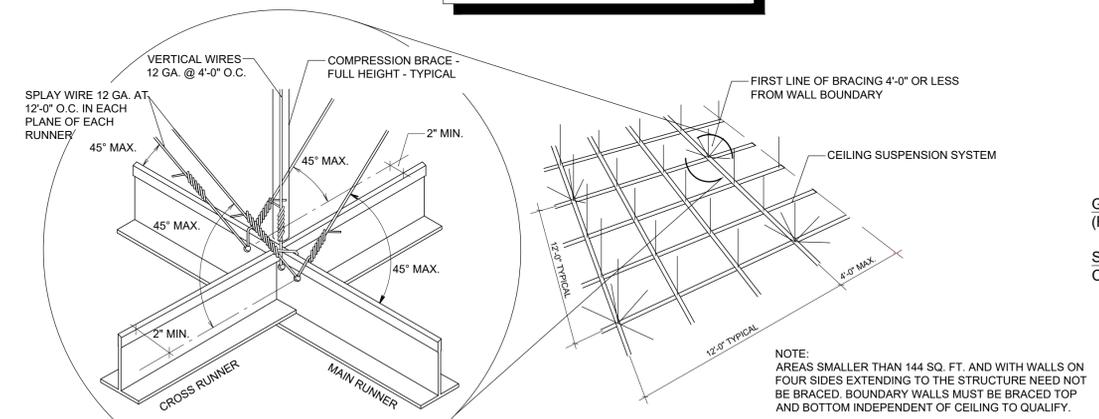
- LIGHT FIXTURE
- LIGHT FIXTURE
- SUPPLY GRILLE
- RETURN GRILLE
- CEILING TYPE:
NC=EXPOSED PRECAST STRUCTURE,
L=LAY-IN ACOUST. TILE.
- CEILING ELEVATION (ABOVE FINISH FLOOR)
- EXIT LIGHT. SHADED SIDE INDICATES FACE OF EXIT SIGN. ARROW INDICATES TRAVEL DIRECTION(S).
- EMERGENCY LIGHTING W/ BATTERY BACKUP
- WALLS THAT EXTEND TO ROOF DECK
- CEILING MOUNTED AUDIO/VISUAL FIRE ALARM ANNUNCIATING DEVICE. REFER TO ALTERNATE NO. 3.
- CEILING MOUNTED SMOKE DETECTOR. REFER TO ALTERNATE NO. 3.



1 REFLECTED CEILING PLAN
1/8" = 1'-0"



SPECIAL NOTE:
REFER TO SHEET G-101 FOR PROJECT'S DEFINED SEISMIC DESIGN CATEGORY TO DETERMINE INSTALLATION REQUIREMENTS.



GENERAL INSTALLATION REQUIREMENTS
(REFER ALSO TO PROJECT MANUAL):
SEISMIC DESIGN CATEGORIES "A" AND "B":
CONFORM TO ASTM C636.

NOTE:
AREAS SMALLER THAN 144 SQ. FT. AND WITH WALLS ON FOUR SIDES EXTENDING TO THE STRUCTURE NEED NOT BE BRACED. BOUNDARY WALLS MUST BE BRACED TOP AND BOTTOM INDEPENDENT OF CEILING TO QUALIFY.

2 SUSPENDED CEILING SEISMIC BRACING
A-701 N. T. S.

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PROJECT # T2016-01
SITE # 6274
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CAD DWG FILE: 6274-8136274080-A-701
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SHEET TITLE:
**REFLECTED
CEILING PLAN**

SHEET NUMBER:

A-701



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SHEET TITLE:
**INTERIOR
FINISH PLAN**

SHEET NUMBER:

I-101

23 OF 27 SHEETS
07/30/2020

INTERIOR FINISH TYPES

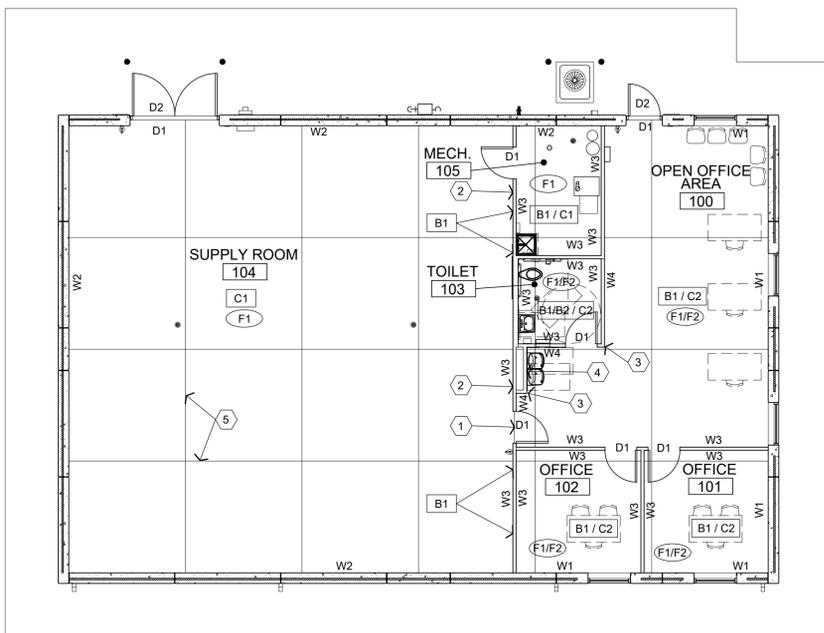
- FLOORS**
- F1 TYPE: EXPOSED CONCRETE WITH LIQUID DENSIFIER TREATMENT
MFG: SEE PROJECT MANUAL
COLOR: CLEAR
 - F2 TYPE: SEAMLESS RESINOUS FLOORING (ALTERNATE #4)
MFG: REFER TO PROJECT MANUAL
COLOR: GRAY WITH ACCENT CHIP (T.B.D.)
FINISH: NON-SLIP (T.B.D.)
NOTE: BASE BID IS FLOOR TYPE "F1"
REFER TO DETAIL 2/I-101
 - B1 TYPE: RUBBER
MFG: JOHNSONITE (BASIS FOR DESIGN)
STYLE: RUBBER WALL BASE W/ COVE TOE
COLOR: 40 (BLACK)
SIZE: 6" (TYPE TS)
 - B2 TYPE: SEAMLESS RESINOUS FLOORING (ALTERNATE #4)
MFG: REFER TO PROJECT MANUAL
COLOR: GRAY WITH ACCENT CHIP (T.B.D.)
FINISH: NON-SLIP (T.B.D.)
SIZE: EXTEND UP WALL INTEGRAL WITH FLOORING 8", REFER
TO DETAIL 2/I-101
NOTE: BASE BID IS "B2" RUBBER BASE.
 - W1 TYPE: STRUCTURAL PRE-CAST CONCRETE
FINISH: PAINT (FIELD)
MFG: SHERWIN WILLIAMS OR EQUAL (BASIS FOR DESIGN)
COLOR: SW 7029 (AGREEABLE GRAY)
SHEEN: SEMI-GLOSS LATEX
 - W2 TYPE: STRUCTURAL PRE-CAST CONCRETE
FINISH: (AS FABRICATED)
FABRICATOR: (TO BE DETERMINED)
COLOR: (AS FABRICATED)
 - W3 TYPE: GYPSUM BOARD
FINISH: PAINT (FIELD)
MFG: SHERWIN WILLIAMS OR EQUAL (BASIS FOR DESIGN)
COLOR: SW 7029 (AGREEABLE GRAY)
SHEEN: SEMI-GLOSS LATEX
 - W4 TYPE: GYPSUM BOARD
FINISH: PAINT (ACCENT)
MFG: SHERWIN WILLIAMS OR EQUAL (BASIS FOR DESIGN)
COLOR: SW 9670 (OLIVETONE)
FINISH: SEMI-GLOSS LATEX
 - C1 TYPE: EXPOSED STRUCTURE
FINISH: UNFINISHED
COLOR: NATURAL CONCRETE
 - C2 TYPE: SUSPENDED ACOUSTICAL CEILING
MFG: ARMSTRONG OR EQUAL (BASIS FOR DESIGN)
STYLE: DUNE
ITEM NO.: 1774
SIZE: 24"x24"x5/8"
EDGE: ANGLED TEGULAR
COLOR: WHITE
GRID: ALUMINUM 15/16" EXPOSED TEE
COLOR: WHITE
 - D1 TYPE: INTERIOR HOLLOW METAL DOORS & FRAMES
FINISH: PAINT
MFG: SHERWIN WILLIAMS OR EQUAL (BASIS FOR DESIGN)
COLOR: SW 2936 (BLACK EMERALD)
SHEET: SEMI-GLOSS ENAMEL
 - D2 TYPE: EXTERIOR DOORS & FRAMES
MFG: SHERWIN WILLIAMS OR EQUAL (BASIS FOR DESIGN)
COLOR: SW 6238 (ICICLE) (MATCH CLEAR ANODIZED ALUMINUM)
SHEET: SEMI-GLOSS ENAMEL

GENERAL NOTES

- A REFER TO PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS.
- B FINAL COLORS AND TEXTURES TO BE SELECTED BY OWNER FROM MANUFACTURER'S SPECIFIED SAMPLES.
- C PROVIDE FLOORING TRANSITIONS, REDUCERS AND EDGING AS REQUIRED FOR SPECIFIC CONDITIONS.
- D REFER TO EXTERIOR FINISH SCHEDULE FOR ADDITIONAL REQUIREMENTS.
- E REFER TO ELEVATIONS, SECTIONS, AND DETAILS FOR ADDITIONAL REQUIREMENTS.
- F REFER TO REFLECTED CEILING PLAN FOR ADDITIONAL REQUIREMENTS.
- G GYPSUM BOARD FINISH TEXTURE TO BE SMOOTH FINISH ON LEVEL (5) SURFACE. FINAL TEXTURES TO BE SELECTED BY OWNER FROM SPECIFIED SAMPLES.
- H ALL WALLS TO BE PAINTED "W1" UNLESS OTHERWISE INDICATED.
- I ALL BASE TO BE RUBBER "B1" UNLESS OTHERWISE INDICATED.
- J ALL INTERIOR HOLLOW METAL DOORS AND FRAMES TO BE PAINTED "P1" UNLESS OTHERWISE INDICATE.
- K PROVIDE SEALANT AT ALL EXPOSED CONCRETE FLOOR JOINTS. COLOR TO MATCH NATURAL CONCRETE GRAY.
- L ELECTRICAL DEVICES AND COVER PLATES TO BE WHITE FINISH, UNLESS OTHERWISE INDICATED.
- M EXPOSED ELECTRICAL SYSTEMS TO BE PAINTED TO MATCH ADJACENT SURFACE PAINTED FINISHES.
- N ALL EXTERIOR WINDOW OPENINGS SHALL HAVE CUSTOM BLINDS, PROVIDED AND INSTALLED BY CONTRACTOR.

KEY NOTES

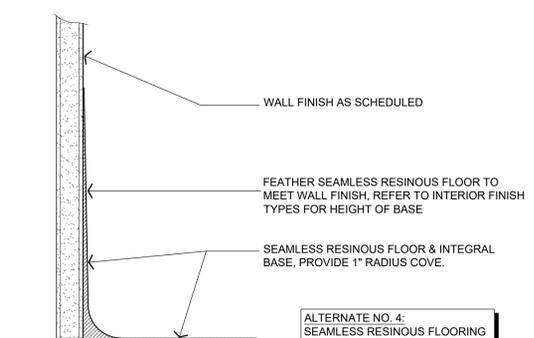
- 1 RESIN FLOORING TO CONCRETE FLOOR FINISH TRANSITION, REFER TO DETAIL 4/I-101 (ALTERNATE NO. 4).
- 2 SUPPLY ROOM 104, PROVIDE BASE TYPE "B1" AT GYPSUM BOARD WALL ASSEMBLY ONLY.
- 3 CORNER GUARD, REFER TO DETAIL 3/I-101.
- 4 STAINLESS STEEL (24 GA. WITH US32D FINISH) WALL COVERING WITH EXPOSED EDGES BEVELED, REFER TO ELEVATION 5/A-403.
- 5 CONCRETE FLOOR JOINTS, REFER TO STRUCTURAL. PROVIDE SEALANT AT EXPOSED LOCATIONS.



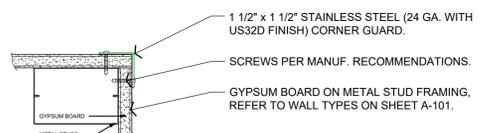
1
I-101
INTERIOR FINISH PLAN
1/8" = 1'-0"



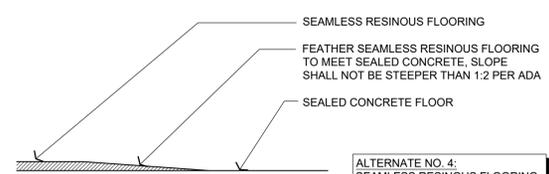
NOTE:
REFER TO PROJECT MANUAL FOR
ALTERNATE #4 WHICH REFERENCES
TO THE RESIN FLOORING OPTION



2
I-101
COVE BASE DETAIL
NOT TO SCALE



3
I-101
CORNER GUARD DETAIL
N.T.S.



4
I-101
FLOORING TRANSITION DETAIL
NOT TO SCALE

SYMBOLS LEGEND

- FX-BX** FLOOR OR BASE FINISH TYPE
- WX** WALL FINISH TYPE(S) AND TRIM TYPE(S)
- CX** CEILING FINISH TYPE
- [Pattern]** FLOOR FINISH PATTERN

SYSTEM	PIPING						FITTINGS		MAXIMUM WORKING		FIELD TEST		NOTES
	SIZE	TYPE	SCHEDULE	GRADE	ASTM	MATERIAL	MATERIAL	TYPE	PRESSURE (PSI)	TEMP (DEG F)	PRESSURE (PSI)	TIME (HOURS)	
CONDENSATE DRAIN ABOVE GRADE	ALL	M	-	-	888	COPPER	COPPER	DR 1 SJ	10 FT	40-70	10 FT	?	-
DOMESTIC WATER ABOVE GRADE	0.5"-3"	L	-	-	888	COPPER	COPPER	SJ	120	40-180	150	?	-
DOMESTIC WATER ABOVE GRADE	2.5"-3"	L	-	-	888	COPPER	COPPER	SJ	120	40-180	150	?	-
DOMESTIC WATER BELOW GRADE	ALL	K	-	-	888	COPPER	COPPER	SJ	120	40-180	150	?	-
DOMESTIC WATER SERVICE BELOW GRADE	ALL	PVC	-	-	AWWA C900	PVC	DI	MJ	200	50-90	200	2	6
REFRIGERANT PIPING	ALL	ACR	-	-	B280	CP	CP	SJ	150	40-180	200	4	-
SANITARY WASTE BELOW GRADE	ALL	DWV	40	-	2665	PVC	PVC	DR 1 SW	10 FT	50-180	10 FT	?	1
SANITARY WASTE AND VENT - RETURN AIR PLENUMS	ALL	NH	SS	-	A74	CI	CI	DR 1 NH	10 FT	50-180	10 FT	?	1,3
SANITARY WASTE AND VENT ABOVE GRADE	ALL	DWV	40	-	2665	PVC	PVC	DR 1 SW	10 FT	50-180	10 FT	?	1,3
TEMPERATURE & PRESSURE RELIEF DRAIN	ALL	M	-	-	888	COPPER	COPPER	DR 1 SJ	10 FT	40-70	10 FT	?	-

NOTES:

- THE USE OF CELLULAR CORE PVC WASTE AND VENT PIPING IS STRICTLY PROHIBITED.
- THE USE OF CPVC AND POLYBUTYLENE PIPING IS STRICTLY PROHIBITED.
- SANITARY WASTE AND ROOF DRAIN PIPING LOCATED WITHIN RETURN AIR PLENUMS SHALL BE CAST IRON OR SHALL BE ENCLOSED IN A GYPSUM BOARD SLOTT.
- NATURAL GAS PIPING INSTALLED IN RETURN AIR PLENUMS AND CONCEALED SPACES SHALL HAVE APPROVED FITTINGS ONLY. VALVES, UNIONS, THREADED FITTINGS, ETC. ARE NOT PERMITTED.
- NATURAL GAS INSTALLED OUTSIDE SHALL BE PAINTED WITH TWO COATS OF UV RESISTANT ENAMEL PAINT. COLOR TO MATCH WALL COLOR ON EXTERIOR WALL VERTICAL RUNS AND YELLOW ON THE ROOF. VERIFY PAINT COLOR WITH ARCHITECT BEFORE INSTALLATION.
- PROVIDE PIPING MATERIAL PER LOCAL WATER COMPANY REQUIREMENTS IF DIFFERENT THAN SCHEDULED.

APPROVED PIPE & FITTING MANUFACTURERS:
 CAST IRON - CHARLOTTE TYLER, CENTRAL FOUNDRY OR PRE-BID APPROVED EQUAL.
 COPPER - CERRO, CHASE, MISLELLER, REVERE COPPER OR PRE-BID APPROVED EQUAL.
 PVC - CHARLOTTE TYLER, CHEMTRON OR PRE-BID APPROVED EQUAL.

ABBREVIATIONS:

BS - BELL AND SPROG	DWV - DRAINAGE WASTE AND VENT	NH - NO-HUB
CI - CAST IRON	HDPE - HIGH DENSITY POLYETHYLENE	SJ - 95-5 TIN-ANTIMONY SOLDER JOINT
CS - CARBON STEEL	MJ - MECHANICAL JOINT	SS - STANDARD STRENGTH / SERVICE WEIGHT
CW - CONTINUOUS WELD	NS - NEOPRENE GASKET	SW - SOL WELD
DI - DUCTILE IRON	PI-FRP - PRE-INSULATED FIBERGLASS REINFORCED PLASTIC	TEAH - THERMOSETTING EPOXY ADHESIVE WITH HEAT
DR - DRAINAGE FITTING	RF-NDPE - RIGID POLYURETHANE INSULATION WITH HDPE JACKET	
FRP - FIBERGLASS REINFORCED		

MARK	DESCRIPTION	BASIS OF DESIGN MANUFACTURER	MODEL NUMBER	ACCESSORIES	PIPING CONNECTION SIZES				NOTES	EQUIVALENT MANUFACTURERS
					COLD WATER	HOT WATER	WASTE	VENT		
DF1	BI-LEVEL ELECTRIC WATER COOLER WITH BOTTLE FILLER	ELKAY	EMABFTLWSSK	ZURN Z1225-BL CARRIER, 1.25" TRAP, SUPPLY AND STOP VALVE, MATCHING ACCESSORY CANE APRON FOR ADA PROTECTION.	0.5"	-	2"	1.5"	1,2,3,4,7	HAWS, OASIS
FD1	LIGHT DUTY FLOOR DRAIN	ZURN	FD2210	NICKEL BRONZE GRATE, PROSET TRAPGUARD	-	-	SEE PLAN	SEE PLAN	1	JOSAM, SIOUX CHIEF, SMITH
FFCO	FINISH FLOOR CLEANOUT	ZURN	ZN1400	NICKEL BRONZE TOP	-	-	SEE PLAN	-	1	JOSAM, SIOUX CHIEF, SMITH
FGCO	FINISH GRADE CLEANOUT	ZURN	ZN1400-HD	HEAVY DUTY TOP	-	-	SEE PLAN	-	1	JOSAM, SIOUX CHIEF, SMITH
FWCO	FINISH WALL CLEANOUT	ZURN	Z1446	STAINLESS STEEL COVER	-	-	SEE PLAN	-	1,2	JOSAM, SIOUX CHIEF, SMITH
FPWH	FREEZEPROOF WALL HYDRANT	ZURN	Z1320	1/4 TURN, NON-FREEZE WALL HYDRANT W/INTEGRAL VACUUM BREAKER LOOSE KEY	0.75"	-	-	-	1	SMITH, WATTS, WOODFORD
LV1	WALL HUNG LAVATORY	ZURN	Z3344	ZURN Z443-XL-FC SINGLE CONTROL FAUCET WITH 0.5 GPM VANDAL-RESISTANT AERATOR, WATTS WUS-8 MIXING VALVE (SET AT 120F), GRID STRAINER, 1.25" TAPPIECE AND TRAP, SUPPLIES AND STOP VALVES, ZURN Z1231 CONCEALED WALL SUPPORT (IN STUD WALLS ONLY) OR SURFACE MOUNTED WALL SUPPORT (ON CMU WALLS ONLY).	0.5"	0.5"	2"	1.5"	1,2,3,4,5,7	AMERICAN STANDARD, KOHLER, TOTO
MB1	MOP BASIN	FIAT	MSB-2424	830-AA FAUCET, WATTS USG-8 MIXING VALVE (SET AT 120F), 838-AA HOSE AND BRACKET, 889-CC MOP HANGER, MSB2424 WALL GUARD	0.5"	0.5"	3"	1.5"	1,2	STERN WILLIAMS, ZURN
SA	SHOCK ABSORBER	ZURN	Z1700	-	SEE PLAN	SEE PLAN	-	-	6	SIOUX CHIEF, SMITH, WATTS
WC1	ADA FLOOR MOUNT FLUSH VALVE WATER CLOSET	ZURN	Z5655-BW-1-AM	Z5955SS-EL ELONGATED, STANDARD WHITE OPEN FRONT SEAT, SUPPLY & STOP VALVE, ZURN ZTR820-LL ECO VANTAGE FLUSH VALVE	1.25"	-	4"	2"	1,3,4,6	AMERICAN STANDARD, KOHLER, TOTO

NOTES:

- ACCESSORIES SHALL BE SAME MANUFACTURER AS FIXTURE / EQUIPMENT UNLESS NOTED OTHERWISE.
- REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT.
- INSTALL ACCESSORIES AS RECOMMENDED BY MANUFACTURER FOR ADA COMPLIANCE.
- ALL COLORS AND FINISHES SELECTED BY ARCHITECT.
- TRUEPRO ADA LAV SHIELD ON SUPPLIES, WASTE, AND MIXING VALVES.
- PROVIDE SHOCK ABSORBER FOR ALL INDIVIDUAL FIXTURES OR BATTERIES. SIZE UNITS SERVING FIXTURE BATTERIES PER MANUFACTURERS RECOMMENDATIONS.
- PROVIDE RECTANGULAR STEEL TUBE CARRIER AT FRAMED WALLS, WALL HANGER AT CMU WALLS.

WATER SOFTENER SCHEDULE										
MARK	BASIS OF DESIGN MANUFACTURER	MODEL NO.	NORMAL FLOW RATE (GPM) @ 15PSI LOSS	MAX FLOW RATE (GPM) @ 25PSI LOSS	MAX BACKWASH FLOW RATE (GPM)	RESIN TANK (DIA. X HEIGHT)	BRINE TANK (DIA. X HEIGHT)	MAX CAPACITY (GRAMS)	ELECTRICAL	ACCESSORIES
WS1	FLECK	140-5600-SXT-200	20	26	7	12" x 52"	15" x 34"	70,000	*120V	1

* UNIT TO INCLUDE 24 V. TRANSFORMER.

ACCESSORIES:

- INCLUDE PROGRAMMABLE SYSTEM CONTROLLER WITH DIGITAL KEYPAD WITH BATTERY BACKUP.
- INCLUDE 24 VOLT TRANSFORMER FOR PLUG-IN TO STANDARD 120 VOLT DUPLEX RECEPTACLE.

WATER HEATER SCHEDULE											
MARK	BASIS OF DESIGN MANUFACTURER	MODEL #	TYPE	GALLON CAPACITY	RECOVERY (GPH @ 90F RISE)	INPUT BTUH	OUTPUT BTUH	%AFUE	KW	VOLTAGE/ PHASE	ACCESSORIES
WH1	BRADFORD-WHITE	LE120L3-3	ELEC	19	9	-	-	1.5	120V	1,2,3	

ACCESSORIES:

- THERMAL EXPANSION TANK EQUIVALENT TO AMTROL MODEL SF-5.
- DRAIN VALVE WITH THREADED HOSE CONNECTION.
- ASME PRESSURE & TEMPERATURE RELIEF VALVE.

KEYNOTES:

- 4" WASTE UP TO FINISH GRADE CLEANOUT.
- REFER TO CIVIL DRAWINGS FOR CONTINUATION.
- 2" TRAPPED WASTE UP TO FLOOR DRAIN.
- 3" TRAPPED WASTE UP TO MOP BASIN.
- 4" WASTE UP TO WATER CLOSET.
- 0.5" CIRCUT VENT UP.
- 2" WASTE UP TO LAVATORY.
- 2" WASTE UP TO DRINKING FOUNTAIN.
- 0.75" COLD WATER DOWN TO WALL HYDRANT WITH SHUT-OFF VALVE.
- 0.75" COLD AND HOT WATER DOWN TO WATER HEATER, PROVIDE UNION AND SHUTOFF VALVES.
- 0.5" COLD AND HOT WATER DOWN TO MOP BASIN.
- 0.5" CIRCUT VENT DOWN TO UNDERSLAB. OFFSET AND ROUTE UP TO 3" VENT THRU ROOF. PROVIDE A FEMA P-361 ICC-508 IMPACT RATED AND TESTED PIPE VENT THRU ROOF ASSEMBLY. FEMA P-361 ICC-508 IMPACT RATED AND TESTED PIPE VENT THRU ROOF ASSEMBLY SHALL BE SECURELY INSTALLED INTO PRECAST ROOF STRUCTURE. COORDINATE WITH PRECAST CONTRACTOR ON THE BUILDING INTERIOR SIDE. THE CONTRACTOR SHALL INCLUDE A CAST IRON FIRE CONNECTION AND 90 DEGREE ELBOW BEFORE TRANSITIONING TO PVC VENT PIPING.
- 1.25" COLD WATER DOWN TO WATER CLOSET.
- 1.5" VENT AND 0.5" COLD AND HOT WATER DOWN TO LAVATORY.
- 1.5" VENT AND 0.5" COLD WATER DOWN TO DRINKING FOUNTAIN.
- 1.5" VENT DOWN TO UNDERSLAB.
- 0.75" GAS DOWN TO FURNACE. PROVIDE DIRT LEG, UNION AND SHUTOFF VALVE.
- NORMALLY CLOSED WATER SOFTENER BYPASS VALVE.
- 1.5" VENT UP.
- SECURE WATER HEATER TO WALL ABOVE MOP BASIN ON EQUIPMENT PLATFORM. SHOWN OFFSET FOR CLARITY. PLATFORM SHALL BE "HOLDRITE" QUICK STAND 888-SHPW-OR EQUIVALENT WITH INTEGRAL DRAIN PAN AND DRAIN CONNECTION.
- 4" WASTE UP TO FINISHED FLOOR CLEANOUT.

PLUMBING GENERAL NOTES:

- REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- PLANS ARE DIAGNOSTIC AND SHALL NOT BE SCALED. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS.
- PIPING LAYOUTS ARE DIAGNOSTIC. FIELD COORDINATE EXACT LOCATIONS AND ROUTINGS WITH STRUCTURE, DUCTWORK, LIGHT FIXTURES, CONDUITS, ETC.
- COORDINATE CLOSELY WITH ALL OTHER TRADES TO EXPEDITE CONSTRUCTION AND AVOID INTERFERENCES AND CONFLICTS. BEFORE ANY PIPING, DUCTWORK, CONDUIT, ETC. IS INSTALLED, IT SHALL BE COORDINATED CAREFULLY BETWEEN ALL TRADES.
- COORDINATE WITH ALL CONTRACTORS TO MAINTAIN ALL CLEARANCES REQUIRED FOR EQUIPMENT. DO NOT ROUTE PIPING, DUCTWORK, ETC. ABOVE ELECTRICAL PANELS.
- CONTRACTOR SHALL MAKE ALL FINAL CONNECTIONS TO EQUIPMENT. PROVIDE ADAPTER AND FITTINGS FOR ALL EQUIPMENT AS REQUIRED. COORDINATE SPECIFIC REQUIREMENTS WITH EQUIPMENT SUPPLIER. REFER TO EQUIPMENT TEMPLATES / DRAWINGS FOR ADDITIONAL INFORMATION.
- ALL MATERIALS IN PLENUMS SHALL BE NON-COMBUSTIBLE PLENUM RATED.
- ROOF CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ROOF PENETRATIONS AND FLASHING REQUIREMENTS TO MAINTAIN ROOF WARRANTY. COORDINATE CLOSELY WITH ROOF CONTRACTOR ALL ROOF REQUIREMENTS.
- DRAWINGS ARE NOT SET UP SPECIFICALLY ACCORDING TO TRADE AND EACH CONTRACTOR AND SUB-CONTRACTOR OR TRADE IS REQUIRED TO REVIEW THE CONSTRUCTION DOCUMENTS AS A WHOLE AND PROVIDE ANY MISCELLANEOUS MATERIALS WORK, ETC. REQUIRED TO COMPLETE THE WORK AS SHOWN ON ALL DOCUMENTS. THIS REQUIREMENT APPLIES TO ALL TRADES. STRUCTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING REQUIREMENTS AND RELATED WORK ARE INDICATED THROUGHOUT THE DOCUMENTS AND SHOULD BE REVIEWED WITH THE SPECIFIC MEP AND STRUCTURAL DRAWINGS FOR OVERALL SCOPE OF WORK.
- SEAL AROUND ALL FIRE RATED WALLS WITH FIRE STOPPING CALKING TO MAINTAIN FIRE RATING. REFER TO ARCHITECTURAL DRAWINGS FOR FIRE RATINGS.
- PROVIDE UNISTRUTS AND ACCESSORIES AS REQUIRED FOR SUPPORT OF PIPING, EQUIPMENT, ETC.
- ALL EXPOSED PIPING, SUPPORTS, ETC. SHALL BE PRIMED AND PAINTED PER THE SPECIFICATIONS.

STATE OF MISSOURI
MICHAEL L. PARSON,
GOVERNOR





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DEPARTMENT OF
PUBLIC SAFETY
MISSOURI ARMY
NATIONAL GUARD

DESIGN & CONSTRUCT
COMPANY SUPPLY &
ADMIN HEADQUARTERS
BUILDING
CAMP CLARK
TRAINING SITE
18159 SOUTH K HIGHWAY
NEVADA, MISSOURI

PROJECT # T2016-01
SITE # 6274
ASSET # 8136274080
BUILDING # 393

REVISION:
DATE: _____
REVISION:
DATE: _____
REVISION:
DATE: _____
ISSUE DATE: 07/30/2020

CAD DWG FILE: 6274-8136274080-E-601
DRAWN BY: TJG
CHECKED BY: RSJ
DESIGNED BY: TJG

SHEET TITLE:
ELECTRICAL
SCHEDULES
AND DETAILS

SHEET NUMBER:

E-601

27 OF 27 SHEETS
07/30/2020

ALTERNATE NO. 3 FIRE ALARM NOTES:

- PROVIDE FIRE ALARM SYSTEM INITIATION DEVICES AND NOTIFICATION APPLIANCES, MONITORING AND CONTROL DEVICES AS INDICATED ON THE DRAWINGS AND/OR AS REQUIRED PER SPECIFICATIONS, LATEST EDITION OF NFPA 72 OR AUTHORITY HAVING JURISDICTION(AHJ).
- ALL FIRE ALARM WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF NFPA 72 AND THE NATIONAL ELECTRICAL CODE.
- FIRE ALARM SYSTEM WIRING SHALL BE PER MANUFACTURER'S INSTALLATION INSTRUCTIONS AND SHALL COMPLY WITH N.E.C. ARTICLE 760.
- SYSTEM CONNECTIONS FOR INITIATING DEVICES SHALL BE CLASS B STYLE A; NOTIFICATION APPLIANCE CIRCUITS SHALL BE CLASS B STYLE Y.
- ALL EXPOSED FIRE ALARM SYSTEM WIRING SHALL BE IN CONDUIT. PAINT FIRE ALARM CONDUIT, JUNCTION BOXES AND FITTINGS RED.
- WHERE FIRE ALARM CABLE IS INSTALLED IN A PLENUM, FIRE ALARM SYSTEM WIRING SHALL BE INSTALLED IN CONDUIT, OR SHALL BE PLENUM-RATED.
- FIRE ALARM SYSTEM EQUIPMENT SUBMITTALS SHALL INCLUDE PRODUCT DATA SHEETS, FIRE ALARM SYSTEM PLAN, EQUIPMENT WIRING DIAGRAMS, SEQUENCE OF OPERATIONS, VOLTAGE DROP AND BATTERY CALCULATIONS, IN ADDITION TO SUBMITTALS BEING SUBMITTED TO A.E. SUBMITTALS SHALL BE SUBMITTED TO AUTHORITY HAVING JURISDICTION(AHJ) FOR REVIEW AND APPROVAL. AN APPROVED COPY AS SUBMITTED TO AHJ SHALL ALSO BE SUBMITTED TO A.E.
- WHERE A POWER EXTENDER IS REQUIRED, PROVIDE POWER EXTENDER, ASSOCIATED 120-VOLT POWER SUPPLY AND A SMOKE DETECTOR IN SAME ROOM AS POWER EXTENDER.
- IF SHOWN ON THE PLANS, CONTRACTOR SHALL PROVIDE ALL MAGNETIC DOOR HOLDERS AND ALL CONTROL WIRING TO CLOSE DOORS UPON DETECTION BY ASSOCIATED SMOKE DETECTOR. DOOR HOLDER FINISH SHALL MATCH ALL DOOR HARDWARE FINISH OF DOOR HARDWARE PROVIDED BY OTHERS.
- FIRE ALARM SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH NFPA STANDARDS AND MANUFACTURER'S RECOMMENDATIONS AND SHALL BE INSTALLED BY PERSONS WHO ARE QUALIFIED AND EXPERIENCED IN THE INSTALLATION, INSPECTION AND TESTING OF FIRE ALARM SYSTEMS. INSTALLER SHALL HAVE A MINIMUM OF 3 YEARS OF EXPERIENCE. PERFORM OPERATIONAL SYSTEM TESTS UPON COMPLETION OF INSTALLATION. CORRECT DEFICIENCIES AND RE-TEST PRIOR TO OWNER OCCUPATION OF BUILDING. PROVIDE A COMPLETED NFPA 72 RECORD OF COMPLETION FORM TO THE OWNER AND AUTHORITY HAVING JURISDICTION.
- FIRE ALARM SYSTEM CONTROL PANEL SHALL ALLOW FOR DETECTOR SENSITIVITY ADJUSTMENT AND TESTING AND SHALL INCLUDE INDIVIDUAL CONTROLS AT CONTROL PANEL/FOR TESTING AUDIBLE APPLIANCES AND VISUAL STROBES.

GENERAL ELECTRICAL NOTES:

- GENERAL**
- GENERAL ELECTRICAL NOTES APPLY TO ALL ELECTRICAL SHEETS.
 - CJD ENGINEERING LLC, BEING THE AUTHOR OF THESE CONSTRUCTION DOCUMENTS RESERVES THE RIGHT OF FINAL INTERPRETATION AS TO THEIR INTENT AND MEANING. ANY ADDITIONAL WORK OR COSTS RESULTING FROM THE CONTRACTOR'S OWN INTERPRETATION AS TO THE INTENT OR MEANING WITHOUT CONSULTATION WITH CJD ENGINEERING LLC SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AT NO COST TO OWNER.
 - THE INTENT OF THE WORK INDICATED ON THESE CONSTRUCTION DOCUMENTS IS TO PROVIDE A FULLY FUNCTIONING SYSTEM IN COMPLETE WORKING ORDER. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND THE CONTRACTOR SHALL INCLUDE ALL ACCESSORIES, COMPONENTS, PARTS, ETC. THAT MAY NOT BE INDICATED ON THESE CONSTRUCTION DOCUMENTS TO PROVIDE BUILDING CODE COMPLIANT SYSTEMS AND EQUIPMENT THAT OPERATE SATISFACTORILY AS DESIGNED AND INTENDED.
 - ALL ELECTRICAL WORK SHALL BE PERFORMED BY LICENSED CONTRACTORS IN ACCORDANCE WITH THE 2015 INTERNATIONAL BUILDING CODES, THE 2014 NATIONAL ELECTRICAL CODE, AND ALL LOCAL CODES AS ADOPTED BY THE AUTHORITY HAVING JURISDICTION.
 - THE CONTRACTOR SHALL INCLUDE ALL PERMIT AND INSPECTION FEES IN BID.
 - THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING HIS BID. NO EXTRA WILL BE PAID DUE TO UNANTICIPATED EXISTING CONDITIONS.
 - PLANS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED. REFER TO CIVIL, STRUCTURAL AND ARCHITECTURAL DRAWINGS AND EXISTING CONDITIONS FOR DIMENSIONS. FIELD VERIFY ALL DIMENSIONS.
 - EQUIPMENT AND CONDUIT/CONDUCTOR LAYOUTS ARE DIAGRAMMATIC. FIELD COORDINATE EXACT LOCATIONS AND ROUTINGS WITH STRUCTURE, PIPING, DUCTWORK, LIGHT FIXTURES, ETC. FINAL RESULT SHALL BE EQUIVALENT TO THAT INDICATED ON DRAWINGS.
 - COOPERATE CLOSELY WITH ALL OTHER TRADES TO EXPEDITE CONSTRUCTION AND AVOID INTERFERENCES AND CONFLICTS. BEFORE ANY PIPING, DUCTWORK, CONDUIT, ETC. IS INSTALLED, IT SHALL BE COORDINATED CAREFULLY BETWEEN ALL TRADES.
 - MAINTAIN ALL CLEARANCES REQUIRED BY ELECTRICAL EQUIPMENT. COORDINATE WITH PLUMBING, HVAC, AND SPRINKLER CONTRACTORS FOR CLEARANCES REQUIRED FOR EQUIPMENT. DO NOT COVER OVER PIPING, DUCTWORK, ETC. ABOVE ELECTRICAL PANELS.
 - DRAWINGS REPRESENT FINAL RESULT. REMOVE, RELOCATE, MODIFY EXISTING EQUIPMENT, DUCTWORK, PIPING, ETC. AS REQUIRED. FIELD VERIFY EXISTING CONDITIONS AND EXACT REQUIREMENTS.
 - COORDINATE INFORMATION OUTLET, RECEPTACLE, AND OTHER DEVICE LOCATIONS WITH OWNER AND WITH MILLWORK AND WITH OTHER TRADES PRIOR TO ROUGH-IN.
 - INFORMATION OUTLET (DATA AND TELEPHONE) DEVICES, WALL PLATES, AND ASSOCIATED WIRING SHALL BE SUPPLIED AND INSTALLED BY OTHERS UNDER A SEPARATE CONTRACT WITH THE OWNER.
 - THE CONTRACTOR SHALL PROVIDE ELECTRONIC SHOP DRAWINGS/SUBMITTALS OF ALL FIXTURES AND EQUIPMENT FURNISHED UNDER THIS CONTRACT.
 - IF CONTRACTOR WISHES TO INCORPORATE PRODUCTS OTHER THAN THOSE NAMED IN SPECIFICATIONS IN HIS BID OR PRODUCTS BY MANUFACTURERS OTHER THAN THOSE LISTED AS APPROVED MANUFACTURERS, THE CONTRACTOR SHALL SUBMIT A WRITTEN REQUEST FOR REVIEW AND APPROVAL OF PROPOSED SUBSTITUTIONS TO CJD ENGINEERING LLC NOT LESS THAN FIVE WORKING DAYS PRIOR TO DATE OF APPROVAL OF PROPOSED SUBSTITUTIONS. APPROVAL OF MANUFACTURERS OR ITEMS IS FOR THE PURPOSES OF BIDDING ONLY AND DOES NOT RELIEVE THE CONTRACTOR FROM SUBMITTAL SHOP DRAWING REVIEW AND DOES NOT CONSTITUTE PRIOR APPROVAL OF PROPOSED SUBSTITUTIONS.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COSTS OF LARGER WIRING, CONDUIT, ENCLOSURES, CONTROL AND OVERCURRENT PROTECTIVE DEVICES, ETC. RESULTING FROM SUBSTITUTION OF EQUIPMENT OTHER THAN THAT WHICH WAS THE BASIS OF BID OR AT NO COST TO OWNER OR A/E.
 - THE CONTRACTOR SHALL GUARANTEE ALL EQUIPMENT, ACCESSORIES, AND MATERIAL FURNISHED BY HIM FOR A PERIOD OF ONE YEAR FROM FINAL ACCEPTANCE AGAINST ALL DEFECTS.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING COSTS TO CUT, PATCH AND REPAIR EXISTING WALL, FLOOR AND CEILING CONSTRUCTION AS REQUIRED TO INSTALL NEW FIXTURES, CONDUIT, WIRING, ETC. ARE INCLUDED IN THE BID PRICE.
- PRODUCTS**
- LIGHT SWITCHES SHALL BE EQUIVALENT TO HUBBELL 1200 SERIES, 20-AMP, 120V/70V-VOLT, IN COLOR SELECTED BY THE ARCHITECT/INTERIOR DESIGNER.
 - DUPLEX RECEPTACLES SHALL BE EQUIVALENT TO HUBBELL 5300 SERIES, 20A, 125V, NEMA CONFIGURATION 5-20R, IN COLOR SELECTED BY THE ARCHITECT/INTERIOR DESIGNER.
 - ALL RECEPTACLES THROUGHOUT UNITS SHALL BE TAMPER-RESISTANT TYPE, TO COMPLY WITH A.E.C.
 - ELECTRICAL DEVICE WALL PLATES SHALL BE HIGH IMPACT NYLON PLASTIC IN COLOR AS SELECTED BY THE ARCHITECT/INTERIOR DESIGNER.
 - FEEDER AND BRANCH CIRCUIT WIRING SHALL BE COPPER, 60V WITH THIN/THIN INSULATION. BRANCH CIRCUIT WIRING SHALL BE #12 AWG MINIMUM, HOMERUNS FOR BRANCH CIRCUITS OVER 75 FEET LONG SHALL BE #10 AWG, OVER 100 FEET LONG, #8 AWG UNLESS INDICATED OTHERWISE.
 - EQUIVALENT WIRING DEVICES BY BRYANT, COOPER, HUBBELL, LEVITON, OR AS APPROVED BY OWNER.
 - EQUIVALENT PANELBOARDS, LIGHTING CONTACTORS AND DISCONNECT SWITCHES BY CUTLER HAMMER, GENERAL ELECTRIC, SIEMENS, SQUARE D, OR AS APPROVED BY OWNER.
- EXECUTION**
- PROVIDE ALL ACCESSORIES, COMPONENTS, ETC. REQUIRED FOR COMPLETE INSTALLATION OF SPECIFIED EQUIPMENT.
 - PROVIDE UNISTRUTS AND ACCESSORIES AS REQUIRED FOR SUPPORT OF PIPING, EQUIPMENT, ETC.
 - COORDINATE LIGHTING AND CEILING DEVICE LOCATIONS WITH ARCHITECTURAL, REFLECTED CEILING LIGHTING.
 - ALL WIRING SHALL BE INSTALLED IN ENT CONDUIT AND SHALL BE CONCEALED UNLESS OTHERWISE NOTED. PVC CONDUIT SHALL BE ALLOWED BELOW SLAB. ALL TRANSITIONS FROM PVC TO STEEL CONDUIT SHALL BE MADE BELOW GRADE. MINIMUM CONDUIT SIZE FOR LIGHTING AND POWER BRANCH CIRCUITS ABOVE GRADE SHALL BE 1/2" MINIMUM CONDUIT SIZE FOR LIGHTING AND POWER BRANCH CIRCUITS BELOW GRADE SHALL BE 3/4". CONTRACTOR SHALL HAVE THE OPTION TO USE METALLIC-CLAD (MCC) CABLE FOR CONCEALED BRANCH CIRCUIT WIRING.
 - MINIMUM CONDUIT SIZE FOR INFORMATION OUTLETS SHALL BE 3/4". CONDUIT STUBS SHALL BE TERMINATED WITH INSULATING BUSHINGS.
 - ALL LIGHTING AND POWER CIRCUITS SHALL HAVE A GROUNDING CONDUCTOR.
 - ALL RECEPTACLES, TELECOMMUNICATIONS OUTLETS, AND TELEVISION OUTLETS SHALL BE INSTALLED AT 48" AFF TO CENTER UNLESS NOTED OTHERWISE. ALL SWITCHES SHALL BE INSTALLED AT 48" AFF TO CENTER UNLESS NOTED OTHERWISE.
 - PROVIDE TYPED CIRCUIT DIRECTORIES FOR ALL PANELBOARDS. DIRECTORY INFORMATION SHALL INCLUDE CIRCUIT NUMBER AND EQUIPMENT SERVED.
 - INSTALL ALL ROOF EQUIPMENT, PIPE, AND CONDUIT SUPPORTS, CURBS AND PENETRATIONS IN ACCORDANCE WITH THE REQUIREMENTS OF THE ROOFING SYSTEM MANUFACTURER.
 - SUPPORT CONDUIT ON ROOF WITH PREMANUFACTURED PIPING SUPPORT EQUIVALENT TO B-LINE C-SERIES. FIELD FABRICATED SUPPORTS CONSISTING OF LUMBER, ETC. ARE NOT ACCEPTABLE.
 - PROVIDE FACTORY FABRICATED PIPE CURB ASSEMBLIES FOR MULTIPLE CONDUIT AND PIPING PENETRATIONS THROUGH THE ROOF. PIPE CURB ASSEMBLIES SHALL BE FACTORY FABRICATED, 8" TALL, (MINIMUM) GALVANIZED STEEL ROOF CURBS WITH INTEGRAL BASE PLATE, 1 LB. DENSITY INSULATION, WOOD MAULER, ACRYLIC GLAD THERMOPLASTIC COVER, FASTENING SCREWS, AND GRADUATED STEP BOOTS WITH STAINLESS STEEL CLAMPS AS MANUFACTURED BY RATE, THYBAR OR APPROVED EQUIVALENT. PROVIDE PIPE SEAL ASSEMBLIES FOR INDIVIDUAL CONDUIT OR PIPE PENETRATIONS. ALL WORK SHALL BE IN ACCORDANCE WITH ROOFING MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS.
 - PROVIDE SLEEVES AT CONDUIT PENETRATIONS OF EXTERIOR OR FOUNDATION WALLS. SEAL PENETRATIONS WEATHERTIGHT.
 - SEAL ALL PENETRATIONS THROUGH FIRE-RATED ASSEMBLIES AS NECESSARY TO RESTORE FIRE-RESISTANCE RATING OF ASSEMBLY. REFER TO ARCHITECTURAL PLANS AND REQUIREMENTS SPECIFICATIONS FOR RATED ASSEMBLIES, FIRESTOPPING MATERIALS AND REQUIREMENTS.
 - CONTRACTOR SHALL MAKE ALL FINAL CONNECTIONS TO SPECIAL EQUIPMENT. PROVIDE ADAPTERS, FITTINGS, ETC. FOR ALL EQUIPMENT AS REQUIRED. COORDINATE SPECIFIC REQUIREMENTS WITH EQUIPMENT SUPPLIERS. REFER TO SPECIAL EQUIPMENT DRAWINGS FOR ADDITIONAL INFORMATION.
 - ELECTRICAL CONTRACTOR SHALL PROVIDE ROUGH-IN FOR THERMOSTATS AND SENSORS. PROVIDE SINGLE-GANG BOX WITH A 1/2" CONDUIT TO ABOVE ACCESSIBLE CEILING OR TO ASSOCIATED EQUIPMENT. THERMOSTATS, SENSORS, AND WIRING SHALL BE PROVIDED BY MECHANICAL CONTRACTOR. REFER TO HVAC PLANS FOR THERMOSTAT AND CONTROL LOCATIONS.
 - BRANCH CIRCUIT WIRING SERVING EQUIPMENT, LIGHTING AND RECEPTACLES IN PATIENT CARE AREAS SHALL COMPLY WITH METAL BACKBOXES, ARMORED CABLING AND ASSOCIATED FITTINGS SHALL BE LISTED AS A GROUND RETURN PATH AND SHALL CONTAIN A SEPARATE EQUIPMENT GROUNDING CONDUCTOR AS SPECIFIED.

PHOTOCELL SCHEDULE									
MARK	LOAD			SWITCH					
	EQUIPMENT SERVED	WATTS	VOLTAGE	BASIS OF DESIGN	AMP	POLE	ENCLOSURE	APPROVED MANUFACTURERS	ACCESS
PCT	LIGHTING	-	-	MFR	MODEL #	IFLX LOAD	NEMA 3R	TORK, KICHLER	1,2
	INTERMATIC	K412IC	16	1					

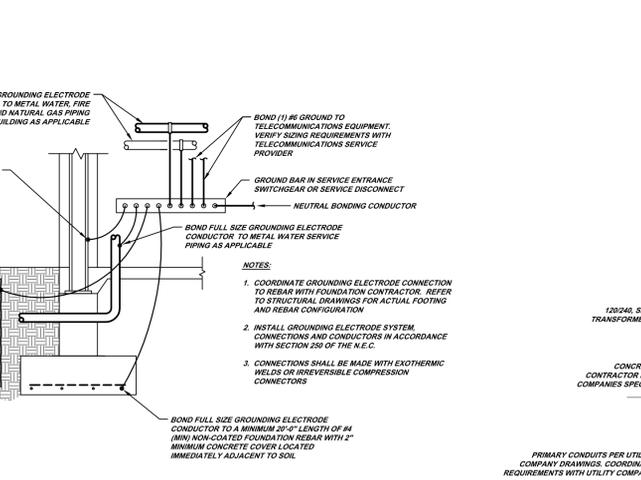
INVERTER SCHEDULE									
MARK	BASIS OF DESIGN	MODEL #	INPUT VOLTAGE	OUTPUT VOLTAGE	RUN TIME	OUTPUT BREAKER #1 (PANEL LOAD)	OUTPUT BREAKER #2 (MOTORIZED DAMPERS)	APPROVED MANUFACTURERS	NOTES
INV1	MYERS	4-E-7-S	240	120	120 MINS	(1) 25-AMP, 1-POLE	(1) 20-AMP, 1-POLE	MULE, DUAL-LITE	1

DISCONNECT SWITCH SCHEDULE											
MARK	LOAD	VOLTAGE	DUTY	SWITCH			OVERCURRENT PROTECTION			NEMA ENCLOSURE	NOTES & ACCESS
				AMP	POLE	TYPE	MFR	MODEL	AMP		
DS1	CONDENSING UNIT - CUT	208	GD	60	1	-	-	-	-	3R	1

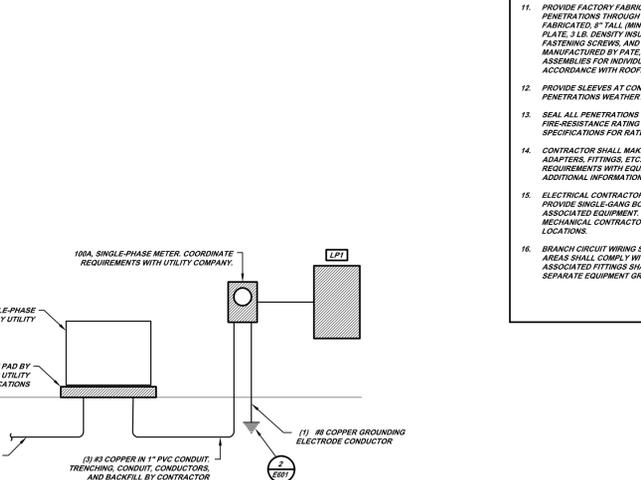
FLOOR BOX SCHEDULE									
MARK	BASIS OF DESIGN			MATERIAL	COVER	SERVICE TYPE	MAX. KNOCKOUT OR HUB SIZE	APPROVED MANUFACTURERS	NOTES
	MANUFACTURER	SERIES / MODEL #	MODEL #						
FB1	HUBBELL	BA4333	BA4333	CAST IRON	SA3825/SA3825/SA3826	CONCRETE FLOOR	1"	LEVITON, WIREMOLD	1,2

LIGHTING FIXTURE SCHEDULE												
MARK	BASIS OF DESIGN			FINISH	MOUNTING	LAMP			APPROVED MANUFACTURERS	NOTES		
	MANUFACTURER	MODEL #	MODEL #			TYPE	CODE	QTY			WATTS	
EM1	WILLIAMS	EMER/LED-WHT-D	EMER/LED-WHT-D	WHITE	WALL	LED	WITH FIXTURE	-	5	120	COOPER IND., LITHONIA	2,3
ST1	WILLIAMS	75R-8-L60/840-DRV-120	75R-8-L60/840-DRV-120	WHITE	SURFACE	LED	WITH FIXTURE	-	36	120	COOPER IND., LITHONIA	4
TI	WILLIAMS	LT-24-L40/840-AF-DRV-120	LT-24-L40/840-AF-DRV-120	WHITE	RECESSED	LED	WITH FIXTURE	-	32	120	COOPER IND., LITHONIA	1
WI	WILLIAMS	WPCS-L30/840-B2-EM/6W-DIM-UNV	WPCS-L30/840-B2-EM/6W-DIM-UNV	BRONZE	WALL	LED	WITH FIXTURE	-	28	120	COOPER IND., LITHONIA	5
X1	WILLIAMS	EXIT/EM/LED-R-WHT-D	EXIT/EM/LED-R-WHT-D	WHITE	SURFACE	LED	WITH FIXTURE	-	5	120	COOPER IND., LITHONIA	2,3

PANELBOARD SCHEDULE										LP1			
CIRC. NO.	EQUIPMENT SERVED	CB AMPS	CB POLES	CB ACC.	LOAD (VA)	PHASE LOADS (VA)		LOAD (VA)	CB ACC.	CB POLES	CB AMPS	EQUIPMENT SERVED	CIRC. NO.
						A	B						
1	INTERIOR LIGHTING	20	1	-	750	810	60	-	1	20		EXTERIOR LIGHTING	2
3	SUPPLY ROOM RECEPTACLES	20	1	-	900	1800	900	-	1	20		SUPPLY ROOM RECEPTACLES	4
5	EXTENSION MECHANICAL ROOM RECEPTACLES	20	1	-	540	1440	900	-	1	20		OPEN OFFICE GENERAL RECEPTACLES	6
7	OPEN OFFICE DESK RECEPTACLES	20	1	-	360	720	360	-	1	20		OPEN OFFICE DESK RECEPTACLES	8
9	OPEN OFFICE DESK RECEPTACLES	20	1	-	360	1080	720	-	1	20		STAND-ALONE OFFICE RECEPTACLES	10
11	DRINKING FOUNTAIN	20	1	GFCI	1500	2220	720	-	1	20		STAND-ALONE OFFICE RECEPTACLES	12
13	FURNACE F1	15	1	HACR	1598	4924	3328	HACR	2	50		CONDENSING UNIT CUT	14
15	WATER HEATER	20	1	HLP	1500	4628	3328		1	20			16
17	SPARE	20	1	-	900	900	900	-	2	50		INVERTER INV1	18
19	SPARE	20	1	-	0	0	900	900	-	1	20		20
21	SPARE	20	1	-	0	0	0	0	-	1	20		22
23	SPARE	20	1	-	0	0	0	0	-	1	20		24



2 GROUNDING ELECTRODE DETAIL
NO SCALE



1 ELECTRICAL RISER DIAGRAM
NO SCALE