

Naterway Carwash

WATERWAY GAS AND WASH 2070 NW LOWENSTEIN DR LEE'S SUMMIT, MO 64063

PROJECT NOTES

<u>GENER</u>	RAL NOTES		
1.	ALL WORK, MATERIALS, AND METHODS SHALL BE IN ACCORDANCE WITH ACCEPTED PROFESSIONAL STANDARDS, APPLICABLE GOVERNING CODES		
	PERTAINING TO THE AMERICANS WITH DISABILITIES ACT (ADA) TITLE III	1.	PROVID
2.	IN THE EVENT OF CONFLICTS. EXPLANATORY NOTES IN THE DRAWINGS		CASEW
	TAKE PRECEDENCE OVER GRAPHIC INDICATIONS; LARGE-SCALE DRAWINGS	2.	SIM ITEN
	AND DETAILS TAKE PRECEDENCE OVER SMALLER SCALE DRAWINGS, AND FIGURED DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS ALL	3.	COORD
	DIMENSIONS MUST BE VERIFIED ON THE JOB AND THE ARCHITECT MUST BE		MECHAI
3	NOTIFIED OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.	4.	CONTRA
0.	OR ERROR IN THE CONTRACT DOCUMENTS (REFERRED TO AS	5	FIREST(
	"DISCREPANCY" COLLECTIVELY IN THIS PARAGRAPH), THE CONTRACTOR	5.	ARCHIT
	INTERPRETING THE CONTRACT DOCUMENTS, ALL TERMS AND CONDITIONS	1	SUPERS
	SHALL BE HARMONIZED AND EFFECTUATED, AND NONE SHALL BE	37.	THE AN
	DISCREPANCY THAT CANNOT BE HARMONIZED, THE INTERPRETATION THAT		GLAZIN
	IMPOSES THE MOST STRINGENT PERFORMANCE OBLIGATION ON THE	38.	ALL EXT
4.	EACH PRIME SUB-CONTRACTOR SHALL BE RESPONSIBLE FOR LAYOUT OF		BY THE
	HIS OWN WORK AND BE RESPONSIBLE FOR ALL LINES, ELEVATIONS AND	39.	
	WORK AND MEASUREMENTS, AND OTHER ITEMS AS MAY BE REQUIRED OF AND FOR HIS WORK, HE SHALL BE RESPONSIBLE FOR VERIEVING ALL		SITE FO
	FIGURES AND DETAILS SHOWN ON THE DRAWINGS WHICH RELATE TO HIS	40	
	WORK, PRIOR TO LAYING OUT HIS WORK HE SHALL BE HELD RESPONSIBLE	40.	REPORT
	PRECAUTIONS.	41.	
5.	IT SHALL BE THE RESPONSIBILITY FOR ALL SUB-CONTRACTORS TO HAVE		AND INS
	AND OR SPECIFICATIONS AND TO PROVIDE ALL LABOR AND MATERIAL FOR	42.	GENERA
	THEIR RESPECTIVE AREA OF WORK FOR A COMPLETE AND FINISHED	43.	FURNIS
	OR SPECIFICATIONS, WHETHER OR NOT, SHALL BE IN COMPLIANCE WITH	44.	ALL LUN
	ALL BUILDING CODES AND ORDINANCES WHICH ARE APPLICABLE TO THE	1.	BEING N
6.	PROJECT. PRODUCTS, SUBMITTALS, EXECUTION AND OTHER PERTINENT		MATERI
•	INFORMATION ARE TO BE PROVIDED IN THE ACCORDANCE WITH		
7	ACCOMPANYING PROJECT MANUAL.		REQUIR
	COORDINATION OF ALL CONSTRUCTION PROCEDURES.	2.	
8.	PRODUCTS, SUBMITTALS, EXECUTION AND OTHER PERTINENT	3.	PROVID
	MANUFACTURER'S SPECIFICATIONS.		WHERE
9.	ALL DIMENSIONS ARE TO THE FACE OF FINISHED WALLS AND TO THE FACE	4.	PROVID
10.	ALL FLOOR ELEVATIONS ARE TO CONCRETE SLAB UNLESS NOTED	_	CEMEN
	OTHERWISE.	5.	ALL EX I MOLDIN
11.	INSTALL SEALANT AT EXTERIOR SIDE OF ALL JOINTS, SEAMS, CONNECTIONS OR OPENINGS AS WELL AS SIDEWALKS ABUTTING TO BUILDING. WHICH		NOTED
	WOULD ALLOW WATER OR AIR INFILTRATION EXCEPT AS NOTED	6.	
	OTHERWISE. SEALANT COLOR IS TO MATCH ADJACENT SURFACE.		DIRECT
	CONTIGUOUS MATERIALS.	7.	SECURE
12.	ALL DISSIMILAR METALS SHALL BE EFFECTIVELY ISOLATED FROM EACH	0.	PROTEC
13.	DOOR OPENINGS IN FRAME CONSTRUCTION WHICH ARE NOT DIMENSIONED	9.	ALL EXF
	ARE EITHER CENTERED IN THE WALL OR LOCATED 4" FROM THE FACE OF		ADJACE
14.	ALL SPECIAL ACCESSIBLE FACILITIES SHALL BE IDENTIFIED WITH APPROVED		
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LOCATE PIPING AND SUPPORTS IN A NEAT AND CONSISTENT MANNER IT IS THE CONTRACTORS RESPONSIBILITY TO FOLLOW DRAWINGS FOR 30. LOCATION OF ELECTRICAL RECEPTACLES OR SWITCHES TO AVOID CASEWORK, DOORS, ETC.DRAWINGS SHALL SUPERSEDE ALL OTHERS.

DE FINISHED SURFACE UNDER AND BEHIND ALL EQUIPMENT AND SHALL BE NO BACK-TO-BACK ELECTRICAL, TELEPHONE, OR OTHER

- DINATE LOCATIONS AND/OR ELEVATIONS OF FLOOR DRAINS, ERS, GRILLES, LOUVERS, DUCTS, UNIT HEATERS, PANELS, ETC. WITH
- ANICAL AND ELECTRICAL CONTRACTORS AND ARCHITECT. RACTOR SHALL COMPLY WITH LOCAL BUILDING CODES IN OPPING ALL RATED WALLS AND FLOOR PENETRATIONS. D ANY CONFLICT OCCUR BETWEEN MEP FP, STRUCTURAL, AND ECTURAL DRAWINGS, ARCHITECTURAL DRAWINGS SHALL
- SEDE ALL OTHERS. S NOT SHOWN ARE SIMILAR TO THOSE DETAILED. CHORAGE, ATTACHMENT ANGLES, SHAPES AND DETAILS FOR
- G, PRECAST, AND STONE BASE ARE SUGGESTIVE AND ARE TO BE ERED AND DETAILED AS REQUIRED TO MEET CURRENT CODES. TERIOR FINISHES AND DETAILS MUST BE REVIEWED AND ACCEPTED ARCHITECT PRIOR TO FABRICATION.
- ACTOR TO PROVIDE ALL LABOR & EQUIPMENT TO PERFORM THE INDICATED ON THESE DRAWINGS. CONTRACTOR SHALL VISIT THE OR VERIFICATION OF ALL CONDITIONS THAT MAY AFFECT THE CT, PRIOR TO THE START OF CONSTRUCTION.
- CAVATION AND BACKFILL SHALL FOLLOW ALL GEOTECHNICAL (SOILS) TS RECOMMENDATIONS. SE CONTRACTOR IS RESPONSIBLE FOR PROVIDING SHOP DRAWINGS
- NER AND CITY AGENCIES FOR APPROVAL PRIOR TO FABRICATION STALLATION.
- RAL CONTRACTOR TO PROVIDE TEMPORARY ON-SITE TOILET TIES DURING ALL CONSTRUCTION PHASES. H ALL ANCHORAGE FOR MILLWORK
- MBER IN CONTACT WITH CONCRETE TO BE PRESSURE TREATED. OTHERWISE INDICATED IN THE CONSTRUCTION DOCUMENTS AS NOT IN CONTRACT (N.I.C.) OR EXISTING, ALL OTHER ITEMS, RIALS AND INSTALLATION ARE PART OF THE CONTRACT, AS DEFINED CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL PROVIDE STALL ALL ACCESSORIES, COMPONENTS AND ASSEMBLIES
- RED FOR THE WORK DEPICTED OR SPECIFIED ACTORS ARE RESPONSIBLE FOR ALL WORK REGARDLESS OF THE ION OF THE INFORMATION ON THE DOCUMENTS
- DE METAL TRIM OR CASING AT ALL EDGES OF DRYWALL SURFACES IT TERMINATES OR MEETS ANY OTHER MATERIAL, UNLESS NOTED
- DE METAL CORNER BEADS AT ALL OUTSIDE CORNERS OF EXTERIOR IT PLASTER AND DRYWALL SURFACES, UNLESS NOTED OTHERWISE. TERIOR AND INTERIOR EXPOSED METAL, TRIM, TRELLISES RAILINGS, NG, FRAMES, CASTING, ETC., SHALL BE PRIMED AND PAINTED UNLESS
- OTHERWISE OR CONCRETE SLABS SHALL BE POURED LEVEL (UNLESS WISE INDICATED) 1/8" TOLERANCE ON A 10'-0" EDGE IN ANY GIVEN
- E ALL PIPING AS CLOSE TO WALLS AS POSSIBLE
- NETRATIONS OF 1-HOUR FIRE RESISTIVE CONSTRUCTION SHALL BE CTED WITH APPROVED FIRE ASSEMBLIES.
- POSED ELECTRICAL EQUIPMENT SHALL BE PAINTED TO MATCH ENT SURFACES (MIN. 2 COATS OF PAINT)

- RDINATE LOCATIONS AND/OR ELEVATIONS OF FLOOR DRAINS, ISTERS, GRILLES, LOUVERS, DUCTS, UNIT HEATERS, PANELS, ETC, I MECHANICAL AND ELECTRICAL CONTRACTORS AND ARCHITECT. ITRACTOR SHALL COMPLY WITH LOCAL BUILDING CODES IN
- ESTOPPING ALL RATED WALLS AND FLOOR PENETRATIONS. ULD ANY CONFLICT OCCUR BETWEEN MEP FP, STRUCTURAL, AND HITECTURAL DRAWINGS, ARCHITECTURAL DRAWINGS SHALL
- PERSEDE ALL OTHERS. AILS NOT SHOWN ARE SIMILAR TO THOSE DETAILED. ANCHORAGE, ATTACHMENT ANGLES, SHAPES AND DETAILS FOR
- ZING, PRECAST, AND STONE BASE ARE SUGGESTIVE AND ARE TO BE GINEERED AND DETAILED AS REQUIRED TO MEET CURRENT CODES. EXTERIOR FINISHES AND DETAILS MUST BE REVIEWED AND
- CEPTED BY THE ARCHITECT PRIOR TO FABRICATION. NTRACTOR TO PROVIDE ALL LABOR & EQUIPMENT TO PERFORM THE RK INDICATED ON THESE DRAWINGS. CONTRACTOR SHALL VISIT THE
- E FOR VERIFICATION OF ALL CONDITIONS THAT MAY AFFECT THE DJECT, PRIOR TO THE START OF CONSTRUCTION. EXCAVATION AND BACKFILL SHALL FOLLOW ALL GEOTECHNICAL
- LS) REPORTS RECOMMENDATIONS. AGE CONTRACTOR IS RESPONSIBLE FOR PROVIDING SHOP
- WINGS TO OWNER AND CITY AGENCIES FOR APPROVAL PRIOR TO RICATION AND INSTALLATION. IERAL CONTRACTOR TO PROVIDE TEMPORARY ON-SITE TOILET
- ILITIES DURING ALL CONSTRUCTION PHASES. NISH ALL ANCHORAGE FOR MILLWORK
- LUMBER IN CONTACT WITH CONCRETE TO BE PRESSURE TREATED. ESS OTHERWISE INDICATED IN THE CONSTRUCTION DOCUMENTS AS NG NOT IN CONTRACT (N.I.C.) OR EXISTING, ALL OTHER ITEMS, ERIALS AND INSTALLATION ARE PART OF THE CONTRACT, AS INED IN THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL
- VIDE AND INSTALL ALL ACCESSORIES, COMPONENTS AND EMBLIES REQUIRED FOR THE WORK DEPICTED OR SPECIFIED ITRACTORS ARE RESPONSIBLE FOR ALL WORK REGARDLESS OF THE ATION OF THE INFORMATION ON THE DOCUMENTS
- VIDE METAL TRIM OR CASING AT ALL EDGES OF DRYWALL SURFACES 2018 INTERNATIONAL BUILDING CODE ERE IT TERMINATES OR MEETS ANY OTHER MATERIAL, UNLESS NOTED IFRWISE
- VIDE METAL CORNER BEADS AT ALL OUTSIDE CORNERS OF ERIOR CEMENT PLASTER AND DRYWALL SURFACES, UNLESS NOTED ERWISE
- EXTERIOR AND INTERIOR EXPOSED METAL, TRIM, TRELLISES LINGS, MOLDING, FRAMES, CASTING, ETC., SHALL BE PRIMED AND ITED UNLESS NOTED OTHERWISE
- ERIOR CONCRETE SLABS SHALL BE POURED LEVEL (UNLESS
- ERWISE INDICATED) 1/8" TOLERANCE ON A 10'-0" EDGE IN ANY GIVEN ECTION URE ALL PIPING AS CLOSE TO WALLS AS POSSIBLE
- PENETRATIONS OF 1-HOUR FIRE RESISTIVE CONSTRUCTION SHALL PROTECTED WITH APPROVED FIRE ASSEMBLIES. EXPOSED ELECTRICAL EQUIPMENT SHALL BE PAINTED TO MATCH ADJACENT SURFACES (MIN. 2 COATS OF PAINT)



DRAWING

STAMP

<u>USE / OCCUPANCY</u> M MERCANTILE - CONVENIENCE STORE **B BUSINESS - CAR WASH**

UNPROTECTED / NON-COMBUSTIBLE

FIRE AND LIFE SAFETY NOTES

A MINIMUM OF ONE 2A10BC CLASSIFICATION FIRE EXTINGUISHER (IN RECESSED CABINET) SHALL BE PROVIDED WITHIN 75' TRAVEL DISTANCE FROM ANY POINT IN THE CORRIDOR SYSTEM OR ONE FOR EACH 3,000 SQUARE FEET OR PORTION THEREOF. LOCATION AND MOUNTING REQUIREMENTS ARE SUBJECT TO FIRE DEPARTMENT APPROVAL AND MAY BE FIELD COORDINATED WITH THE FIRE

INSPECTOR. THE LIFE SAFETY SYSTEM (EITHER NEW OR EXISTING TO BE MODIFIED) TO BE DESIGN/BUILD. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING THE FIRE ALARM/LIFE SAFETY SHOP DRAWINGS TO PROVIDE THE INFORMATION REQUIRED BY THE GOVERNING AGENCY.

PLANS FOR ALL FIRE PROTECTION EQUIPMENT SUCH AS FIRE ALARM SYSTEMS, MUST BE SUBMITTED TO THE BUILDING DEPARTMENT AND APPROVED BY THE FIRE DEPARTMENT BEFORE EQUIPMENT IS INSTALLED AND OR MODIFIED.

EXIT SIGNS SHALL BE LOCATED IN ACCORDANCE WITH FBC "EXIT SIGNS" AND NFPA 101 SECTION 5-10, "MARKING OF MEANS OF EGRESS"

KNOX BOX FINAL LOCATION OF KNOX BOX TO BE COORDINATED & APPROVED IN WRITING WITH AND BY THE FIRE MARSHALL & BUILDING INSPECTOR. G.C. TO REVIEW BUILDING PLANS FOR LOCATION WITH FIRE MARSHALL & WALK THROUGH **BUILDING PRIOR TO SUBSTANTIAL**

COMPLETION TO VERIFY LOCATION. ARCHITECT IS NOT RESPONSIBLE FOR THE FINAL LOCATION OF KNOX BOX IN ANY CAPACITY.

BUILDING CODE BLOCK

STAND-ALONE CARE WASH

2070 NW LOWENSTEIN DR

LEE'S SUMMIT, MO 64063

REVIEWING AGENCIES

THE GENERAL CONTRACTOR IS

INSPECTION AND ALL REQUIRED

APPROVALS FOR THIS PROJECT:

CITY OF LEE'S SUMMIT, MO

services/construction

https://cityofls.net/development-

APPLICABLE BUILDING CODES

THE GENERAL CONTRACTOR IS

ACCORDANCE WITH THE LATEST

AMENDMENTS THEREOF:

CONSERVATION CODE

ICC/ANSI A117.1-2009

NON-SPRINKLERED

TYPES OF CONSTRUCTION

2018 INTERNATIONAL ENERGY

2017 NATIONAL ELECTRIC CODE

2018 UNIFORM PLUMBING CODE

2018 INTERNATIONAL FIRE CODE

2018 INTERNATIONAL FUEL GAS CODE

RESPONSIBLE FOR COMPLETING THE

CONSTRUCTION OF THIS PROJECT IN

APPLICABLE FEDERAL, STATE, AND LOCAL

2018 INTERNATIONAL MECHANICAL CODE

CODES INCLUDING THE FOLLOWING AND ALL

COMPLYING WITH THE FOLLOWING

THE PERMIT APPLICATION, PERIODIC

RESPONSIBLE FOR COORDINATING AND

REVIEWING AGENCIES IN CONNECTION WITH

LOCATION

ONE STORY CONVENIENCE STORE AND



SPECIAL INSPECTIONS

BY A CERTIFIED INSPECTOR APPROVED BY THE ARCHITECT OF RECORD, AND THE BUILDING OFFICIAL. THE SPECIAL INSPECTOR OR AGENCY SHOULD BE UNDER THE RESPONSIBILITY DIRECTION OF A REGISTERED DIVISION FOR REVIEW NOT MORE THAN ARCHITECT

- THE GENERAL CONTRACTOR IS 1. RESPONSIBLE FOR SCHEDULING AND TIMELY NOTIFICATION OF THE NEED FOR SPECIAL INSPECTION AND TESTS.
- DUTIES OF THE SPECIAL INSPECTOR:
- A. THE SPECIAL INSPECTOR WILL OBSERVE THE ASSIGNED SPECIAL INSPECTION FOR CONFORMANCE WITH THE APPROVED DESIGN DRAWINGS CONTRACTOR HAS AND SPECIFICATIONS.
- THE SPECIAL INSPECTOR WILL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL AND TO THE ARCHITECT OF RECORD WITHIN 48 HOURS AFTER COMPLETING INSPECTIONS.
- DISCREPANCIES SHALL BE ATTENTION OF THE GENERAL CONTRACTOR FOR CORRECTION. IF DISCREPANCIES ARE NOT CORRECTED, THE DISCREPANCIES SHALL BE THE ARCHITECT
- UPON COMPLETION OF THE WORK THE SPECIAL INSPECTOR SHALL COMPLETE AND SIGN FINAL REPORT CERTIFYING THAT TO THE BEST OF THE INSPECTORS KNOWLEDGE THE WORK IS IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS AND THE APPLICABLE WORKMANSHIP PROVISION OF THE CODE.
- INSPECTIONS: REFER TO THE BUILDING CODE FOR THE DEFINITION OF PERIODIC AND CONTINUOUS INSPECTIONS AND SPECIFIC REQUIREMENTS.

<u>BUILDINGS</u>

FLOOR AREA PER TABLE 506.2 TYPE IIB		
B- ALLOWABLE M-ALLOWABLE	2	3,000 SF 2,500 SF
TOTAL SQUARE FOOTAGE	8 8	,371 GSF
M-CONVENIENCE STORE B-CAR WASH	7	835 SF ,536 SF
FIRE RESISTANCE RATING		<u>ENTS</u>
STRUCTURAL FRAMING EXTERIOR NON-LOAD BEA EXTERIOR LOAD BEARING INTERIOR NON-LOAD BEAR ROOF CONSTRUCTION	ARING RING	0 HOUR 0 HOUR 0 HOUR 0 HOUR 0 HOUR
BUILDING ENVELOPE DES MINIMUMS	IGN REQUIR	EMENTS
ROOF INSULATION ENTIRE ABOVE DECK	ELY	R-30 ci
WALLS (ABOVE GRADE) MASS		R-9.5 ci
SLAB ON GRADE FLOORS F	R-10 FOR 24"	BELOW
OPAQUE DOORS SWINGING (ASSEM ROLLING (ASSEMB	1BLY) sLY)	U-0.61 U-0.31

ROLLING (ASSEMBLY)	0-0.31
ENESTRATION - METAL FRAMING	
FIXED	U-0.38
OPERABLE	U-0.45
ENTRANCE DOOR	U-0.77

DEFERRED SUBMITALLS

SPECIAL INSPECTIONS SHALL BE PERFORMED THE FOLLOWING APPROVED DEFERRED SUBMITTAL ITEMS AND/OR DESIGN DRAWINGS SHALL BE SUBMITTED BY THE RESPONSIBLE DESIGN PROFESSIONAL TO THE CITY OF RICHMOND HEIGHTS BUILDING SIXTY (60) DAYS AFTER THE DATE THAT THE BUILDING PERMIT IS ISSUED AND PRIOR TO THE WORK BEING PERFORMED:

> - FIRE ALARM SYSTEM - FUEL CANOPY SHOP DRAWINGS

- SALES COUNTER SHOP DRAWINGS

BY SUBMITTING SHOP DRAWINGS, PRODUCT ITEMS IN A STATEMENT OF THE DATA, SAMPLES AND SIMILAR SUBMITTALS, THE CONSTRUCTOR REPRESENTS TO THE OWNER AND ARCHITECT THAT THE

- REVIEWED AND APPROVED THEM DETERMINED AND VERIFIED MATERIALS, FIELD MEASUREMENTS, AND FIELD CONSTRUCTION CRITERIA RELATED THERETO, OR WILL DO SO
- CHECKED AND COORDINATED THE INFORMATION WITH THE REQUIREMENTS OF THE WORK AND OF THE CONSTRUCTION DOCUMENTS.

BROUGHT TO THE IMMEDIATE THE CONTRACTOR SHALL PERFORM NO PORTION OF THE WORK FOR WHICH THE CONTRACT DOCUMENTS REQUIRE SUBMITTALS UNTIL THE SUBMITTAL HAS BEEN APPROVED BY THE ARCHITECT.

THE CONTRACTOR SHALL NOT BE RELIEVED BROUGHT TO THE ATTENTION OF RESPONSIBILITY FOR DEVIATIONS FROM OF THE BUILDING OFFICIAL AND THE CONTRACT DOCUMENTS BY THE ARCHITECT'S APPROVAL OF SHOP DRAWINGS, PRODUCT DATA, SAMPLES, OR SIMILAR SUBMITTALS UNLESS THE CONTRACTOR HAS INFORMED THE

- ARCHITECT IN WRITING OF SUCH DEVIATION AT THE TIME OF THE SUBMITTAL AND: THE ARCHITECT HAS GIVEN WRITTEN APPROVAL FOR THE DEVIATION AS A
 - MINOR CHANGE IN THE WORK, OR A CHANGE ORDER OR CONSTRUCTION CHANGE DIRECTIVE HAS BEEN ISSUED AUTHORIZING THE

DEVIATION. IT IS THE RESPONSIBILITY OF EACH PROJECT CONSULTANT TO REVIEW SHOP DRAWINGS FOR COORDINATION WITH THEIR SCOPE OF WORK. THE ARCHITECT SHALL NOT BE HELD RESPONSIBLE FOR ANY DISCREPANCIES

BUILDING HEIGHT PER TABLE 504.3 & .4 TYPE IIB

BETWEEN TRADES.

B-ALLOWABLE M-ALLOWABLE	3 STORIES / 55' 2 STORIES / 55'
CONVENIENCE STORE M-ACTUAL	1 STORY, 13'-10"
CAR WASH B-ACTUAL	1 STORY, 18'-8"

TRAVEL DISTANCE MAXIMUM TRAVEL DISTANCE B, M - 200' (1017.2) DEAD END CORRIDORS 20' (1020.4)

OCCUPANT LOAD AND EXITING CALCS PER TABLE 1005.1

M-CONVENIENCE STORE	704/60	12 OCCUP
B-CAR WASH	12 EMP	12 OCCUP
OCCUPANT LOAD	24	
ENTRY DOORS (10	108"	
<u>EXIT DOORS (110E</u>	<u>72"</u>	
WIDTH PROVIDED	180"	

WIDTH REQUIRED 24x.2= 4.8"

TOILET REQUIREMENTS

FIXTURE REQUIREMENT	
CONVENIENCE STORE FEMALE MALE	'1' FIXT PER 15 '1' FIXT PER 50
CAR WASH FEMALE MALE	'1' FIXT PER 100 '1' FIXT PER 100
TOTAL PROVIDED	2



ARCHITEXTURES SP



PROJECT TEAM										-
OWNER OPERATOR WATERWAY GAS AND WASH 727 GODDARD AVENUE CHESTERFIELD, MISSOURI 63005 PHONE: 636.637.1111 CONTACT: JOHN SIGNAIGO		ARCHITECTSTRUCTURAL ENGINEERARCHITEXTURES SPKREHER ENGINEERING, INC.8725 BIG BEND BOULEVARD208 NORTH MAIN STREET,ST. LOUIS, MO 63119SUITE HPHONE: 314.961.9500COLUMBIA, IL 62236CONTACT: JAY SCHOESSELPHONE: 618.281.8505CONTACT: JIM KREHER		<u>R</u> INC. T,	- B B B B B					
			<u>М</u> С 1 К	<u>/IEP [</u> 3 & W 38 W /IARY PHON	<u>Engi</u> / En /Eld /Lan E: 3	<u>nee</u> Gine On I D He 14.46	RING ERIN PARK EIGHT 59.373	IG WAY ĭS, M0 37	D 63043	LEXTU ulevard 500
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	A0.0 A0.1	COVER SHEET, PROJECT NOTES AND INFORMATION ACCESSIBILITY REQUIREMENTS	•	•						
	A0.2	ACCESSIBILITY REQUIREMENTS	•		_					STRUCTURAL ENGINEER
	A1.0	SITE DETAILS	•	•						
	A1.2 A1.3	SITE DETAILS FUEL CANOPY PLAN, ELEVATIONS & DETAILS	•	•						208 NORTH MAIN STREET, SUITE H
	A1.4 A2.0	XPT CANOPY PLAN, ELEVATIONS & DETAILS ARCHITECTURAL PLAN	•	•						COLUMBIA, IL 62236 PHONE: 618.281.8505
	A2.1 A2.2	PLAN DETAILS ROOF PLAN & DETAILS	•	•						CONTACT: JIM KREHER
	A2.3 A2.4	CARWASH CONVEYOR TRENCH DETAILS CARWASH CONVEYOR TRENCH DETAILS	•							MEP ENGINEERING
\sim	A3.0	REFLECTED CEILING PLANS & DETAILS	•	•						G & W ENGINEERING 138 WELDON PARKWAY
OF MISSING	A4.1	PARTITION TYPES & DETAILS	•	•						MARYLAND HEIGHTS, MO 63043 PHONE: 314.469.3737
	A5.0 A6.0	BUILDING SECTIONS	•	•						CONTACT:
SCHOESEL *	A6.1 A6.2	WALL SECTIONS AND DETAILS		•						
A-2004024872	A ^v 6.3									
THIS SEAL IS FOR ARCHITECTURE DRAWINGS ONLY	A9.0 A9.1	FINISH FLOOR PLAN, RFS SCHEDULE & LEGEND		•						
		STRUCTURAL		<u> </u>		I				
	S0.0 S0.0.1	LEGENDS AND SYMBOLS GENERAL NOTES	•							
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	M0.0		•							Z g
	M0.1 M2.0	MECHANICAL SPECIFICATIONS CEILING PLAN - MECHANICAL	•							
	M2.1 M3.0	ROOF PLAN - MECHANICAL FLOOR PLAN - MECHANICAL PIPING	•							L
	M4.0	ENLARGED CEILING PLANS - MECHANICAL	•							
	M5.1		•							
THIS SEAL IS FOR MECHANICAL DRAWINGS ONLY										
	E0.0									
	E0.0	SPECIFICATIONS	•							
	E1.0	SITE PLAN - FUEL SYSTEM	•							
	E2.0 E2.1	ROOF PLAN - POWER & SYSTEMS ROOF PLAN - POWER & SYSTEMS	•							
	E2.2 E3.0	SIGNAGE CEILING PLAN - LIGHTING	•							
	E4.0 E5.0	ENLARGED FLOOR PLANS - POWER & SYSTEMS ELECTRICAL DETAILS & SCHEDULES	•							
	E5.1 E5.2	ELECTRICAL DETAILS & SCHEDULES ELECTRICAL DETAIL & SCHEDULES	•							the document to wich they are affixed and
	E6.1	ELECTRICAL PANELBOARD SCHEDULES	•							all other plans, specifications, estimates,
										relating to or inteded to be used for any pa
		PLUMBING								Povisions:
	P0.0 P1.0	PLUMBING TITLE SHEET	•							1PERMIT COMMENTS8/6/24
	P2.1	FIRST FLOOR PLAN - PLUMBING								
	P4.0	ENLARGED FLOOR PLANS - PLUMBING								
	P5.0 P6.0	PLUMBING DETAILS PLUMBING SCHEDULES								
			+							
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										COVER SHEET
THIS SEAL IS FOR PLUMBING DRAWINGS ONLY										

Issue Date: 05/31/2024

DISCLAIMER OF RESPONSIBILITY

HEREBY SPECIFY. PURSUANT TO RSMO 327.411. THAT THE DOCUMENTS INTENDED TO BE AUTHENTICATED BY MY SEAL ARE LIMITED TO: ARCHTECTURAL DRAWINGS LISTED ABOVE (A0.0 THROUGH A9.1, DATED 05/31/2024 AND SPECIFICATION DIVISIONS 2 THROUGH 14. DATED 05/31/2024; AND I HEREBY DISCLAIM ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS OR OTHER DOCUMENTS OR INSTRAMENTS RELATING TO OR INTEDED TO USED OR ANY PART OR PARTS OF THE ARCHITECURE, ENGINEERING, OR SURVEYING FOR THIS PROJECT.

ANDREW JAY SCHOESSEL MISSOURI ARCHITECT, LICENSE NUMBER: A-2004024872

4.1.2(1) Where required At least one accessible route complying with this section shall be provide within

the boundary of the site from the following areas to an accessible building entrance. Public transportation stops Accessible parking spaces	Parking space width: 132" Access aisle width: 60" Vertical clearance: 98" (at parking sp route to the space)
Passenger loading zone, if provided Public streets and sidewalks	4.6.5 Passenger LoadingZones Passenger loading zones shall have the
4.1.2(2) Where required At least one accessible route complying with this section shall connect accessible buildings, accessible facilities, accessible elements, and accessible spaces that are on the same site.	Vehicle pull-up space width: (not spe Access aisle width: 60" Access aisle length: 20" (adjacent ar Vertical clearance: 114" (at loading z tothe loading zone).
4.3.2(1) Location The accessible route shall, to the maximum extent feasible, coincide with the route for the general public.	4.6.3 Access Aisle Parking access aisles shall be part of a entrance.
4.3.3 Width Minimum clear width: 36" (except as allowed at doors)	Parked vehicle overhangs shall not re
4.3.3 Width of Turns 36" clear width is permitted for a 90 turn if no additional turn is required within 48".	Parking spaces, passenger loading zo slope of 1:50 (2%) in all directions. (C required area of access aisles and loa
Clear width with turns around an obstruction less than 48" wide shall be 42" minimum, with 48" minimum width at turn.	4.1.2(7)(d) 4.6.4 Signage Accessible parking spaces shall be de
4.3.4 Passing Space If an accessible route is less than 60" wide, passing spaces are required at maximum 200' intervals. Passing space may be either a 60" X 60" space,	International Symbol of Accessibility. `Van accessible' spaces shall have an below the symbol of accessibility. (Thi `universal' accessible spaces are prov
or a T-intersection of two walks or corridors.	Accessible passenger loading zones s International Symbol of Accessibility.
Minimum clear headroom: 80" If vertical clearance of an area adjoining an accessible route is reduced to less than 80", a barrier shall be provided.	Signs shall be located so that they car space.
4.3.7 Slope	CURB RAMPS
 `curb ramps' section.) Cross slope shall not exceed 1:50 (2%). 	4.7.2 4.8.2 4.1.6(3)(a) Slope Least possible slope shall be used. Maximum slope: 1:12
4.3.8 4.5.2 Changes in Level Up to 1/4": requires no edge treatment (vertical edge permitted).	Transitions shall be flush and free o Maximum slope of adjacent surface
Greater than 1/2": Requires curb ramp, ramp, elevator, or platform lift. Stairs shall not be part of an accessible route.	Alterations/Existing Conditions: Where space limitation prohibit use of Max_rise of 6": 1:10 to 1:12 close
4.3.6 4.5 Ground and Floor Surfaces Shall be firm, stable and slip-resistant, (If carpet is used, refer to requirements	Max. rise of 3": 1:8 to 1:12 slope Slope greater than 1:8 is prohibited.

Shall be firm, stable and slip-resistant. (If carpet is used, refer to requirements under Element 5: Accessible Route).

4.29 Detectable Warnings

At Hazardous Vehicular Ares. If a walk crosses or adjoins a vehicular way, and the walking surfaces are not separated by curbs, railings, or other elements between the pedestrian areas and vehicular areas, the boundary between the areas shall be defined by a continuous detectable warning 36" wide, complying with the requirements below. At Reflecting Pools. The edges of reflecting pools not protected by railings,

walls, or curbs, shall have detectable warnings complying with the requirements

Detectable Warnings. Surface shall consist of a raised truncated domes with the following features:

- Diameter: 0.9" nominal Height: 0.2" nominal
- The surface shall contrast visually with adjoining surfaces.
- 4.54 Gratings

If gratings are located in walking surfaces, then they shall have spaces no greater than 1/2" wide inn one direction. If gratings have elongated openings, then they shall be placed so that the long

dimension is perpendicular to the dominant direction of travel.

4.1.2(3) 4.4.1 Protruding Object Objects projecting from walls with their leading edges between 27" and 80" above the finished floor shall protrude no more than 4" into walks or corridors. Objects projecting from walls with their leading edges at or below 27" above

the finished floor may protrude any amount. Free-standing objects mounted on posts or pylons may overhand 12" maximum

from 27" to 80" above the finished floor or ground. Protruding objects hall not reduce the required clear width of an accessible route or maneuvering space.



ACCESSIBLE PARKING

4.1.2(5)(c) PassengerLoading Zones If passenger loading zones are provided, at least one shall comply with this section.

4.1.2(5)(3) Valet Parking

Valet parking facilities shall provide a passenger loading zone complying with this section Valet parking facilities are not required to provide accessible parking spaces.

(It is recommended that some accessible self-parking spaces be provided, as some persons with disabilities have vehicles equipped with special controls which may not be operable by a parking attendant.)

4.6.2 4.1.2(5)(b) Location

Accessible parking spaces serving a particular building shall be located on the shortest accessible route of travel from adjacent parking to an accessible building entrance.

In buildings with multiple accessible entrances with adjacent parking, accessible parking spaces shall be dispersed and located closest to the accessible entrances.

All van accessible spaces may be groped on one level of parking structure. (`Universal' spaces, when provided, may also be grouped on one level of a parking structure).

In parking facilities that do not serve a particular building, accessible parking shall be located on the shortest accessible route of travel to an accessible pedestrian entrance to the facility.

4.1.2(5)(a) 4.6.3 `Standard' Accessible Spaces Accessible spaces shall have the following minimum dimensions:

- Parking space width: 96" Access aisle width: 60"
- Vertical clearance: 80"
- 4.1.2(5)(b) 4.6.5 `Van AccessibleSpaces
- 'Van accessible' spaces shall have the following minimum dimensions: Parking space width: 96"

Access aisle width: 96" Vertical clearance: 98" (at parking space and along at least one vehicular route to the space)

6 `Universal' Accessible Spaces niversal' parking design spaces shall have the following minimum dimensions: Parking space width: 132" Access aisle width: 60" /ertical clearance: 98" (at parking space and along at least one vehicular oute to the space)
 5 Passenger LoadingZones 5 senger loading zones shall have the following minimum dimensions: /ehicle pull-up space width: (not specified) Access aisle width: 60" Access aisle length: 20" (adjacent and parallel to vehicle space) /ertical clearance: 114" (at loading zone and along at least one vehicular route othe loading zone).
6.3 Access Aisle arking access aisles shall be part of an accessible route to the building or facility ntrance. wo accessible parking spaces may share a common access aisle. arked vehicle overhangs shall not reduce the clear width of an accessible route.
6.3 4.6.6 Slope arking spaces, passenger loading zones, and access aisles shall have a maximum ope of 1:50 (2%) in all directions. (Curb ramps are not permitted within the quired area of access aisles and loading zones.)
1.2(7)(d) 4.6.4 Signage ccessible parking spaces shall be designated as reserved by a sign showing the ternational Symbol of Accessibility. 'an accessible' spaces shall have an additional sign state `Van-Accessible' elow the symbol of accessibility. (This additional sign is not required when all niversal' accessible spaces are provided.) ccessible passenger loading zones shall be identified by a sign showing the ternational Symbol of Accessibility. gns shall be located so that they cannot be obscured by a vehicle parked in the pace.
URB RAMPS 7.2 4.8.2 4.1.6(3)(a) Slope east possible slope shall be used. Maximum slope: 1:12 Transitions shall be flush and free of abrupt changes. Maximum slope of adjacent surfaces: 1:20.

sting Conditions:

limitation prohibit use of 1:12 ramp, following slopes are acceptable: 6": 1:10 to 1:12 slope f 3": 1:8 to 1:10 slope

4.7.3 Clear Width

Minimum: 36"

4.7.4.4.5 Surface Shall be firm, stable, and slip-resistant.

4.7.5 Sides

`Ur

- If located where pedestrians may walk across the ramp, the sides of the ramp shall be flared, with a maximum slope of 1:10.
- If the width of the walking surface at the top of the ramp is less than 48" wide, the flared sides shall have a maximum slope of 1:12.
- Returned curbs may be used only where pedestrians would not normally walk across the ramp.

4.7.6 Built-Up Curb Ramps

Shall be located so they do not project into traffic lanes.

4.7.7 4.29.2 Detectable Warnings

- Required for full width and depth of ramp. Surface shall consist of raised truncated domes with following features: Diameter: 0.9" nominal
- Height: 0.2" nominal
- Center to Center spacing: 2.35" nominal The surface shall contrast visually with adjoining surfaces. The material providing contrast shall be an integral part of the walking surface.

4.7.8 Obstructions

- 4.7.9 Location at Marked Crossings If at marked crossing, shall be fully contained within marked area, excluding flared
- sides.
- 4.7.10 Diagonal Curb Ramps With returned curb, must be parallel to pedestrian flow.
- If at marked crossing, minimum 48" wide area at bottom of ramp shall be contained within the marked crossing If flared sides, at least 24" of straight curb required within crossing area.
- 4.7.11 Islands Any raised islands in crossing shall either be cut through level with the street, or shall have curb ramps each side, with minimum 48" long level area between.



ENTRANCES

4.1.3(8)(a)(ii) Minimum number The number of accessible entrances shall be equivalent to the number of exits required by the applicable building/fire code. (Example: If a building is being designed with 5 public entrances, and 4 exits are required by local code, then at least 4 of the public entrances must be accessible. Note: This section does not require an increase in the planned number of entrances to a building: e.g. if a building is being designed with 3 public entrances, and 4 exits are required by local code, all 3 public entrances must

be accessible, but a fourth accessible entrance need not be added.)

4.1.3(8)(a)(iii) Where required

An accessible entrance shall be provided to each tenancy in a facility (e.g. individual stores in a strip shopping center).

4.1.3(8)(b)(i) Where required

If direct pedestrian access is provided into the building from an enclosed parking garage, at least one entrance from the garage to the building shall be accessible.

4.1.3(8)(b)(ii) Where required If pedestrian access is provided from pedestrian tunnels or elevated walkways, at least one building entrance from each tunnel or walkway shall be accessible. 4.1.3(8)(c) Where required

If the only entrance to a building, or tenancy in a facility, is a service entrance, the entrance shall be accessible.

4.1.3(8)(c) Location

Where feasible, accessible entrances shall be the entrances used by the majority of people visiting or working in the building.





4.1.2(7)(d) 4.1.3(8)(d) 4.1.6(1)(h) 4.30 Signage

- When all entrances are not accessible, accessible entrances shall be identified by a sign Location and Construction: An area of rescue assistance shall be one of the showing the International Symbol of Accessibility. Entrances which are not accessible following: (including altered entrances which are not made accessible) shall have directional signage 1. A portion of a stairway landing within a smoke proof enclosure (complying indicating the location of the nearest accessible entrance. The signage shall comply with the requirements for:
- Character Proportion Character Height
- Finish and Contrast (Refer to Element 16: Signage for specific requirements.) This signage shall be installed in a location which will prevent a person with a disability from having to retrace his approach route to the inaccessible entrance.

4.1.3(7)(a) Doors

At each accessible entrance, at least one door shall be accessible.

ACCESSIBLE ROUTE - INTERIOR

- 4.1.3(1) Where required At least one accessible route complying with this section shall connect accessible
- building or facility entrances with all accessible spaces and elements within the building or facility.

4.3.2(4) Where required An accessible route shall connect at least one accessible entrance of each accessible dwelling unit with those exterior and interior spaces and facilities that serve the

- accessible dwelling unit. 4.1.3(5) 4.1.6(1)(k)(ii) Where required
- In multi-story buildings not required to have an elevator (refer to Element 8: Elevators), floors located above and below the accessible ground floor entrance shall
- comply with other requirements of Elements 1-20. In existing multi-story buildings without an elevator, alterations to floors above and below the accessible ground floor shall comply with other requirements of Elements 1-20.
- 4.3.3 Width

Minimum clear width: 36" (except as allowed at doors).

- 4.3.3 Width at Turns 36" clear width is permitted for a 90 turn if no additional turn is required within 48". Clear width with turns around an obstruction less than 48" wide shall be 42" minimum, with 48" minimum width at turn.
- 4.3.4 Passing Space
- If an accessible route is less than 60" wide, passing spaces are required at maximum 200' intervals. Passing space may be either 60" by 60" space, or a T-intersection of two walks or corridors.

4.3.5 4.4.2 Headroom Minimum clear headroom: 80"

If vertical clearance of an area adjoining an accessible route is reduced to less than 80", a barrier shall be provided.

4.3.7 Slope

- Running slope shall not exceed 1:20. (If slope exceeds 1:20, refer to `ramps' section). Cross slope shall not exceed 1:50 (2%).
- 4.3.8 4.5.2 4.1.6(1)(f) Changes in Level Up to 1/4": requires no edge treatment (vertical edge permitted).
- 1/4" to 1/2": Edge shall be beveled with a slope no greater than 1:2. Greater than 1/2": Requires a ramp, elevator, or platform lift.

Stairs shall not be part of an accessible route.

- Alterations/Existing Conditions: If an escalator or stair is added where none existed previously, and major structural modifications are necessary for such installation, then a means of accessible vertical access (ramp, elevator, or platform lift) shall be provided.

4.3.6 4.5 Ground and Floor Surfaces Shall be firm, stable, and slip-resistent. (If gratings are used, refer to requirements

under Element 1: Accessible Route.)

- 4.5.3 Carpet
- If carpet is used, it shall have the following features: Shall be securely attached;
- A firm cushion, pad, or backing (or none); A level loop, textured loop, level cut pile or level cut/uncut pile texture;
- Maximum pile thickness 1/2";

Exposed edges fastened to floor surfaces with carpet edge trim.

- 4.4.1 Protruding Objects Objects protruding from walls with their leading edges between 27" and 80" above the finished floor shall protrude no more than 4" into walks or corridors.
- Objects projecting from walls with their leading edges at or below 27" above the finished floor may protrude any amount.
- Free-standing objects mounted on posts or pylons may overhang 12" maximum from 27" to 80" above the finished floor or ground.
- Protruding objects shall not reduce the required clear width of an accessible route or maneuvering space.

4.2.4 Clear Floor Space

- The minimum clear floor space required to accommodate a single, stationary wheelchair is 30" by 48", and may be positioned for either a forward or parallel
- approach. If a forward approach clear floor space extends more than 24" into an alcove, the
- minimum alcove width shall be 36". If a parallel approached clear floor space extends more than 15" into an alcove, the minimum alcove length shall be 60".

4.2.5 Reach Ranges

If a clear floor space allows only a forward approach, the maximum high forward reach shall be 48".

The minimum low forward reach shall be 15". If the high forward reach is over an obstruction, the following conditions shall be met:

Knee space below obstruction shall equal or exceed reach length required above the obstruction.

If the obstruction is less than 20" deep, the maximum high forward reach shall be 48". If the obstruction is 20-25" deep, the maximum high forward reach shall be 44".

If the clear floor space allows a parallel approach, the maximum high side reach shall be 54".

The minimum low side reach shall be 9". If the high side reach is over an obstruction, the following conditions shall be met:

Obstruction shall be 34" maximum in height, 24" in depth, maximum high side reach shall be 46".

4.1.3(13) 4.27 Controls and Operating Mechanisms All controls and operating mechanisms in accessible spaces, along accessible routes.

- and as parts of accessible elements, shall comply with the following: . Clear floor space shall be provided to allow forward or parallel approach. . Heights of all operable portions shall comply with the reach ranges above. Electrical and communications system receptacles on walls shall be 15"
- minimum above the floor Exception: The height requirements do not apply where the use of
- special equipment dictates otherwise or where electrical and communications systems receptacles are not normally intended for use by

building occupants. 3. Controls and operating mechanisms shall be operable with one hand and shall not require tight grasping, pinching, or twisting of the wrist.

- 4. The force required to activate controls shall be no greater than 5 lbf. 4.1.3(9) 4.1.6(1)(g) 4.3.10 Means of Egress
- In buildings or facilities, or portions of buildings and facilities, required to be accessible, accessible means of egress shall be provided in the same number as required for exits by local building/life safety regulations.
- Accessible routes serving any space or element shall also serve as a means of egress for emergencies or connect to an accessible area of rescue assistance. Where a required exit from an occupiable level above or below a level or accessible exit discharge is not accessible, an area of rescue assistance shall be provided on each plus 12" minimum parallel to floor.
- level (in a number equal to that of inaccessible required exits). Areas of rescue assistance shall comply with requirements listed below. Exception: A horizontal exit, meeting the requirements of local building/life safety
- regulations, shall satisfy the requirement for an area of rescue assistance. Exception: Areas of rescue assistance are not required in buildings or facilities having a supervised automatic sprinkler system.

- 4.3.11 Areas of Rescue Assistance
- with local requirements). 2. A portion of an exterior exit balcony (complying with local requirements) located immediately adjacent to an exit stairway. Openings to the interior of the building located within 20' of the area of rescue assistance shall be protected with fire assemblies having a 3/4 hour fire protection rating.

Route)

DOORS

4.1.3(7)

this section

this section.

4.13.3 Gates

Mechanisms

Where applicable

4.13.2 Revolving Doors and Turnstiles

door and shall facilitate the same use pattern.

4.13.5 4.3.3 4.1.6(3)(d)(i) Clear Width

required clear opening to 31-3/8" minimum).

doorway, 48" perpendicular to doorway.

door, 54" perpendicular to doorway.

door, 48" perpendicular to doorway.

of door, 48" perpendicular to doorway

the width of any door swinging into the space.

door, 42" perpendicular to doorway.

parallel to doorway (from latch side, extending beyond hinge side), 48"

entrance or along an accessible route.

4.13.4 Double-leaf Doorways

a clear opening of 20" minimum.

Alterations/Existing Conditions:

4.13.6 Maneuvering Clearances

perpendicular to doorway.

perpendicular to doorway

perpendicular to doorway

doorwa

minimum).

4.13.7 Two Doors in Series

between the doors.

CITY STANDARDS

1. Shall be operable with one hand.

- 3. A portion of a 1 hour fire-resistive corridor (complying with local requirements) located immediately adjacent to an exit enclosure.
- 4. A vestibule located immediately adjacent to an exit enclosure and constructed to the same fire-resistive standards as required for corridors
- and opening 5. A portion of a stairway landing within an exit enclosure which is vented to the exterior and is separated from the interior of the building with not
- less than 1 hour fire-resistive doors. 6. When approved by the appropriate local authority, an area or room which is separated from other portions of the building by a smoke barrier. Smoke barriers shall have a fire-resistive rating of not less than 1 hour and
- shall completely enclose the area or room. Doors in the smoke barrier shall be tight-fitting smoke and draft control assemblies having a fire -protection rating of not less than 20 minutes and shall be self-or automatic-closing. The area or room shall be provided with an exit directly to an exit enclosure. Where the room or area exits into an exit enclosure which is required to be of more than 1 hour fire-resistive construction, the room or area shall have the same fire-resistive construction, including the same opening protection, as required for the adiacent exit enclosure.
- 7. An elevator lobby when elevator shafts and adjacent lobbies are pressurized as required for smoke proof enclosures by local regulations. Such pressurization system shall be activated by smoke detectors on each floor located in a manner approved by the local authority. Pressurization equipment and its duct work shall be separated from other portions of the building by a minimum 2 hour fire-resistive construction.
- Size: Each area of rescue assistance shall provide a minimum of 2 accessible spaces each being not less than 30" by 48". These spaces shall not encroach on any required exit width. The total number of spaces per story shall not be less than 1 per 200 persons of calculated occupant load served by the area of rescue assistance.
- Exception: The local authority may reduce the minimum number of spaces to 1 for each area of rescue assistance on floors where the occupant load is less than 200. Stairway Width: Each stairway adjacent to an area of rescue assistance shall have a minimum clear width of 48" between handrails.
- Two-way Communication: A method of two-way communication, with both visible and audible signals, shall be provided between each area of rescue assistance and 4.11.2 4.27.2 Controls and Operating Mechanisms the primary building entry. The fire department or local authority may approve a location other than the primary entry.
- Identification: Each area of rescue assistance shall be identified by a sign which states "AREA OF RESCUE ASSISTANCE" and displays the International Symbol of Accessibility. The sign shall be illuminated when exit sign illumination is required. Signage shall also be installed at all inaccessible exits and where otherwise necessary to clearly indicate the direction to areas of rescue assistance. In each area of rescue assistance, instructions on the use of the area under emergency conditions shall be posted adjoining the two-way communication system.

<u>RAMPS</u>

- 4.8.1 Where required Wherever the slope of the accessible route exceeds 1:20 (5%).
- 4.8.2 Slope

Least possible slope shall be used Maximum slope 1:12

- Transitions shall be flush and free of abrupt changes
- Maximum slope of adjacent surfaces: 1:20
- 4.8.3 Clear Width Minimum: 36".
- 4.8.4 Landings
- Level landings required at top and bottom of each run, with the following features: 1. Minimum Width: Equal to width of ramp. 2. Length: Minimum 60" clear.
- 3. If ramp changes direction at landing, landing shall be minimum 60" by 60". 4. If doorway is located at landing, maneuvering space is required (refer to Element 10: Doors).

4.8.5 Handrails

- Required if: Rise exceeds 6: or Run (horizontal projection) exceeds 72".
- Shall be provided on both sides of ramps.
- Inside rail on switchback or dogleg ramps shall be continuous. Where not continuous, rails shall extend at least 12" beyond top and bottom of ramp,
- parallel to ground surface.

Height: 34-38" above ramp surface.

- Clear floor space between rail and any wall shall be 1-1/2".
- Gripping surfaces shall be continuous (uninterrupted).
- Ends shall be rounded, or returned smoothly to floor, wall, or post. Handrails shall not rotate in their fittings.
- Diameter or width of gripping surface shall be 1-1/4" to 1-1/2", or shall provide an equivalent gripping surface.
- May be located in a recess provided that the recess is 3" deep maximum and extends 18" minimum above the top of the handrail. Rails and adjacent surfaces shall be free of abrasive or sharp elements. Edges shall
- have a minimum radius of 1/8". 4.8.6 Cross Slope
- Maximum cross slope of ram surface shall be 1:50.
- 4.8.6. 4.5 Surfaces Ramp surface shall be firm, stable, and slip-resistent (If carpeted, refer to requirements under Element 5: Accessible Routes.)

Outdoor ramps and their approaches shall be designed so that water will not accumulate

Interior and exterior stairs connecting levels not served by an elevator, ramp, or other

All steps on a flight of stairs shall have uniform riser heights and tread widths.

Minimum tread depth shall be 11", measured from riser to riser (not including

Risers shall be sloped or underside of nosing shall have an angle not less than 60.

accessible means of vertical access shall comply with this section.

Radius of curvature at leading tread edge shall not exceed 1/2".

Where not continuous, handrail extensions shall be provided as follows:

Top of stair flights: Parallel to floor, 12" minimum beyond top riser nosing.

Bottom of stair flights: Continue sloping for one tread width beyond bottom riser,

Gripping surfaces shall be uninterrupted by newel posts, other construction elements, or

Inside rail on switchback or dogleg stairs shall be continuous.

Clear floor space between rail and any wall shall be 1-1/2".

Ends shall be rounded, or returned smoothly to floor, wall, or post.

surfaces, or minimum 2" high curbs, to prevent people from slipping off the ramp

4.8.7 Edge Protection Ramps and landings with vertical side drop-offs shall have walls, railings, projecting

4.8.8 Outdoor Conditions

4.1.3(4) When applicable

4.9.2 Treads and Risers

4.9.3 Nosings

4.9.4 Handrails

obstructions.

nosing). Open risers are not permitted.

Nosings shall project no more than 1-1/2".

Height: 34"-38", measured from stair nosing.

Handrails shall not rotate in their fittings.

Undersides of nosings shall not be abrupt.

Required on both sides of all stairs.

on their walking surfaces.

<u>STAIRS</u>

4.26.2 Handrails Diameter or width of gripping surface shall be $1-1/4$ " to $1-1/2$ ", or shall provide an	4.13.8 4.1.6(3)(d)(ii) Thresholds at Doorways
equivalent gripping surface.	Maximum threshold height: 1/2" (3/4" at exterior sliding doors). Raised thresholds and floor level changes shall be beveled with a slope no greater than
May be located in a recess provided that the recess is 3" deep maximum and extends	1:2.
4.26.4 Handrails	Alternations/Existing Conditions: If existing thresholds are 3/4" high maximum, and have (or are modified to have) a
Rails and adjacent surfaces shall be free of abrasive or sharp elements.	beveled edge on each side, they may remain.
Edges shall have a minimum radius of 1/8".	4.13.8 Door Hardware
4.9.6 Outdoor Conditions Outdoor stairs and their approaches shall be designed so that water will not accumulate	to grasp with one hand and does not require tight grasping, tight pinching, or twisting
on walking surfaces.	of the wrist to operate. Lever-operated mechanisms, push-type mechanisms, and U-shaped handles are
PLATFORM LIFTS	acceptable designs. When sliding doors are fully open, operating hardware shall be exposed and usable
4.1.3(5) Excep. 4 4.1.6(3)(g) Where permitted	from both sides.
permitted only under the following conditions:	floor.
 To provide an accessible route to a performing area in an assembly occupancy 	4.13.10 Door Closers
b. To comply with wheelchair viewing position line-of-sight and dispersion	an open position of 70, the door will take at least 3 second to move to a point 3" from
requirements. c. To provide access to incidental occupiable spaces which are not open to	the latch, measured to the leading edge of the door.
the general public and which house no more than five persons (ie.	4.13.11 Door Opening Force
d. To provide access where existing site constraints or other constraints	The maximum force for pushing or pulling open a door shall be as follows: 1. Fire doors shall have the minimum opening force allowable by the
make use of a ramp or an elevator infeasible.	appropriate administrative authority.
4.11.2 Other Requirements Platform lifts shall comply with ASME/ANSI A17.1 Safety Code for Elevators and	a. Exterior hinged doors: (No requirement at this time)
Escalators, Section XX, 1990.	b. Interior hinged doors: 5 lbf c. Sliding or folding doors: 5 lbf
4.11.3 Entrance	These forces do not apply to the force required to retract latch bolts or disengage other
Lifts shall facilitate unassisted entry, operation, and exit.	devices that may hold the door in a closed position.
4.2.4.1 Clear Floor Space Minimum 30" by 48" space is required for a single wheelchair.	4.13.12 Automatic Doorsand Power-Assisted
4.2.4.2 Maneuvering Clearance	Slowly opening, low-powered, automatic doors shall comply with ANSI A156.19-1984.
The platform lift shall provide maneuvering clearances as required for alcoves on the	Such doors shall not open to back check faster than 3 second and shall require no more than 15 lbf to stop door movement.
accessible route.	If a power-assisted door is used, its door opening force shall comply with forces listed
4.5.1 Floor Sufface Shall be stable firm and slin-resistant. (If carneted refer to requirements under	A156.19-1984.
Element 5: Accessible Route.)	
4.11.2 4.27.2 Controls and Operating Mechanisms	4.1.3(10)(a) Where applicable
Clear floor space allowing a proper forward or parallel wheelchair approach to all controls is required	Where only one drinking fountain or water cooler is provided per floor, accessible
Heights permitted:	drinking facilities shall be provided for both wheelchair users and for persons who have difficulty stooping or bending. This may be accomplished by the following means:
Forward reach: minimum 15", maximum 48" Side reach: minimum 9", maximum 54"	Providing a "hi-lo" fountain, with spouts at wheelchair and standard height;
Gide readil, minimum 3, maximum 34	Providing an accessible drinking fountain complying with this section and a water

an odd number of fountains is provided, the 50% figure can be rounded down to

Spouts shall be located at the front of the unit and shall direct the water flow in a

If the fountain has a round or oval bowl, the spout must be positioned so the flow of

Unit controls shall be front mounted or side mounted near the front edge.

The force required to activate controls shall be no greater than 5 lbf.

1. Wall and post mounted cantilevered fountains shall have clear knee space as

Minimum 27" high (from apron bottom to floor), minimum 30" wide, and 17"

A minimum 30" by 48" clear floor space allowing a forward approach to the

minimum 30" by 48" clear floor space allowing a parallel approach to the unit.

DETAIL 11.2

If toilet facilities are provided on a site, then each such public or common use toilet

If bathing facilities are provided on a site, then each such public or common use

For single user portable toilet or bathing units clustered at a single location, at least

Accessible units shall be identified by the International Symbol of Accessibility.

Exception: Portable toilet facilities at construction sites used exclusively by

5%, but not less than 1 toilet unit or bathing unit shall be provided at each cluster.

If toilet rooms are provided, then each public or common use toilet room shall comply

Doors to accessible toilet/bathrooms shall be accessible (Refer to Element 10: Doors).

Other toilet rooms provided for the specific use of occupants of specific spaces (e.g. a

private toilet room for a private office) shall be adaptable. (Room will need to be

If bathing rooms are provided, then each such public and common use bathroom

Accessible toilet rooms and bathrooms shall be on an accessible route.

Doors shall not swing into the clear floor space required for any fixture.

be identified by a sign showing the International Symbol of Accessibility.

An unobstructed turning space is required within the toilet/bathroom. This space

shall be either a 60" diameter circle or a T-shaped space, 60" square, with 36" legs.

Where all toilet and bathrooms are not accessible, accessible toilet and bathrooms shall

If controls, dispensers, receptacles, or other equipment are provided, then at least one of

The clear space at fixtures and controls, the accessible route, and the turning space

All accessible fixtures and controls shall be on an accessible route.

DETAIL 11.3

2. Free-standing or built-in units not having a clear knee space shall have a

determine the required number of accessible fountains.)

The spout shall provide a flow of water at least 4" high.

trajectory that is parallel or nearly parallel to the front of the unit.

4.15.2 Spout Height

4.15.3 Spout Location

spout outlet.

4.15.4 Controls

4.27.4 Operation

or twisting of the wrist.

4.15.5 Clearances

-19" deep

unit shall also be provided

11 ↓6" MAX.

TOILET ROOMS AND BATHROOMS

facility shall comply with this section.

4.1.3(11) 4.1.6(3)(e) 4.1.7(3)(c)

capable of complying with this section.)

shall comply with this section.

4.22.3 4.23.3 Clear Floor Space

4.1.7(7)(d)4.1.6(3)(e)(iii) Signage

4.23.7 Controls and Dispensers

bathing facility shall comply with this section.

construction personnel are not required to comply.

DETAIL 11.1

with this section.

4.22.1 Location

may overlap.

LOCAL ACCESSIBILITIES STANDARDS.

4.22.2 4.23.2 Doors

4.1.2(6) Where required

(If reach is over an obstruction, refer to requirements under Element 5: Accessible By other means providing accessibility for each group. 4.1.3(10)(b) Where required

2. Shall not require tight grasping, pinching, or twisting of the wrist. 3. Maximum force required to activate controls shall be 5 lbf.

At each accessible entrance to a building or facility, at least one door shall comply with Within a building or facility, at least one door at each accessible space shall comply with

Each door that is an element of an accessible route shall comply with this section. Each door serving as part of an accessible means of egress or connecting to an area of water is within 3" of the front edge of the fountain. rescue assistance shall comply with this section.

Exception: This requirement does not apply to existing buildings or alterations. Revolving doors or turnstiles shall not be the only means of passage at an accessible

An accessible gate or door shall be provided adjacent to the turnstile or revolving

Gates, including ticket gates, shall comply with all applicable portions of this section.

If doorways have two independently operated door leaves, then at least one leaf shall comply with this section. That leaf shall be an active leaf.

Doorways shall provide a clear opening of 32" minimum, with the door open 90°. Clear openings shall be measured between the face of the door and stop. Openings more than 24" in depth shall provide a clear opening of 36" minimum. Exception: Doors not requiring full user passage, such as shallow closets, shall have

Where it is technically infeasible to comply with clear opening requirements, a maximum projection of 5/8" shall be permitted for the latch side stop (reducing the

The following maneuvering clearances, in addition to doorway width, are required at 8" MINswinging doors that are not automatic or power-assisted (all dimensions are minimum): 1. Front approach to pull side: 18" beyond latch side of door, 60"

2. Front approach to push side, if door has a closer and a latch: 12" beyond latch side of door, 48" perpendicular to doorway. 3. Front approach to push side, without closer and latch: same width as

4. Hinge side approach to pull side: 36" beyond latch side of door, 60"

perpendicular to doorway; or 42" beyond latch side of door, 54" 5. Hinge side approach to push side, if door has a closer and a latch: 54"

6. Hinge side approach to push side, without closer and latch: 54" parallel to doorway (from latch side, extending beyond hinge side), 42" perpendicular to

7. Latch side approach to pull side, without closer: 24" beyond latch side of

8. Latch side approach to pull side, without closer: 24" beyond latch side of

9. Latch side approach to push side, if door has closer: 24" beyond latch side 10. Latch side approach to push side, without closer: 24" beyond latch side of

The following maneuvering clearances, in addition to doorway width, are required at

sliding and folding doors that are not automatic or power-assisted (all dimensions are 1. Front approach: same width as doorway, 48" perpendicular to doorway. 2. Slide side approach: 54" parallel to doorway (from latch side, extending

beyond slide side), 42" perpendicular to doorway. 3. Latch side approach: 24" beyond latch side of door, 42" perpendicular to

The floor or ground area within the required clearances shall be level and clear. Exception: Entry doors to acute care hospital bedrooms for in-patients are exempt from the latch side extensions if the door is at least 44" wide.

The minimum space between two hinged or pivoted doors in series shall be 48" plus Doors in series shall swing either in the same direction or away from the space

each type shall be on an accessible route and shall comply with the height, clear floor space, and operation requirements specified in Element 5. Accessible Route. AMERICAN'S WITH DISABILITIES ACT ALL EXISTING AND NEW HARDWARE, FOUIPMENT, MOUNTING HEIGHTS, ACCESSIBLE

ROUTES, ETC. SHALL COMPLY WITH THE AMERICAN'S WITH DISABILITIES ACT &

Bend Miss 14-96 Ι STRUCTURAL ENGINEER gage other **KREHER ENGINEERING. INC.** 208 NORTH MAIN STREET, SUITE H COLUMBIA, IL 62236 PHONE: 618.281.8505 CONTACT: JIM KREHER **MEP ENGINEERING** G & W ENGINEERING 138 WELDON PARKWAY MARYLAND HEIGHTS, MO 63043 PHONE: 314.469.3737 s who have CONTACT: If more than one drinking fountain or water cooler is provided on a floor, 50% of those provided shall comply with this section and shall be located on an accessible route. (If Spouts shall be no higher than 36", measured from the floor or ground surface to the EII 64 O ST ΖŽ LOWE MMIT, Controls shall be operable with one hand and shall not require tight grasping, pinching, Z S 070 EE'

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The seal(s) and signature(s) apply only to the document to wich they are affixed and we expressly dislcaim any responsibility for all other plans, specifications, estimates, reports or other documents or instraments relating to or inteded to be used for any part or parts of the project

Revisions:

ACCESSIBILITY REQUIREMENTS

CONTRACTOR(S) TO COMPLY WITH CITY STANDARDS BUT SHALL NOT VIOLATE THE STANDARDS LISTED IN ADA AND LOCAL ACCESSIBILITY STANDARDS (L.A.S.).

Issue Date: 05/31/2024

WATER CLOSETS

4.16.2 Water closets shall be located 18" from a side wall or partition. Clear water space for water closets not located in toilet stalls is required as follows,

depending on approach provided to the fixture (all dimensions are minimum): 1. Front approach: 66" from back wall, 48" from side wall (lavatory may

- protrude 12" maximum into clear space along back wall). 2 Side approach: 56" from back wall 48" from side wall (lavatory may
- protrude 12" maximum into clear space along back wall).
- 3. Front and Side approach: 56" from back wall, 60" from side wall (lavatory may not protrude into clear space).
- Clear floor space may be arranged to allow either a left-handed or right-handed approach.
- 4.16.3 Height
- The height to the top of the toilet seats shall be 17" to 19". Seats shall not be sprung to return to a lifted position.
- 4.16.4 4.26 Grab Bars
- For water closets not located in toilet stalls, the following grab bars shall be provided, 33-36" above the finish floor Side Wall: 42" long minimum, 12" from back wall.
- Back Wall: 36" long minimum, 12" minimum each side of water closet centerline. 4.16.5 4.27.4 Flush Controls
- Controls shall be 44" maximum above the finish floor.
- Controls for flush valves shall be mounted on the wide side of toilet areas Controls shall be hand operated or automatic.
- Controls shall be operable with one hand and shall not require tight grasping, pinching, or twisting of the wrist.
- The force required to activate controls shall be no greater than 5 lbf.
- 4.16.6 Dispensers Toilet paper dispensers shall be installed on the side wall, below the grab bar, a minimum 19" above the floor, and a maximum 36" from the rear wall. Dispensers that control delivery, or do not permit continuous paper flow, shall not

be used.

TOILET STALLS 4.22.4 Where applicable

If toilet stalls are provided in a toilet room or bathroom, then at least one shall be a `standard' accessible toilet stall (for wheelchair users) complying with this section. If 6 or more toilet stalls are provided in a toilet room or bathroom, in addition to the `standard' accessible stall required, an addition `alternate A' accessible stall (for ambulatory persons with disabilities) complying with this section shall be provided.

- 4.17.2 Water Closets Water closets located within toilet stalls shall comply with Element 12.1: Water Closets.
- 4.17.3 Size and Arrangement
- Toilet stalls may be arranged to provide either a left- or a right-hand approach. Accessible toilet stalls shall have the following dimensions: 'Standard' Accessible Stall
- Minimum Width: 60"
- Minimum Depth, with floor mounted water closet: 59"
- Minimum Depth, with wall mounted water closet: 56" Door: Outward swinging (if door swings into stall, depth shall be increased by
- `Alternate A' Accessible Stall (required when more than 6 stalls provided;
- permitted in lieu of `standard' stalls in certain alterations).
- Width: 36" Minimum Depth: with floor mounted water closet: 69"
- Minimum Depth: with wall mounted water closet: 66"
- Door: Outward swinging `Alternate B' Accessible Stall (permitted in lieu of standard stall only in certain
- alterations) Minimum Width: 48"
- Minimum Depth: 54"
- Door: Outward Swinging 4.17.4 Toe Clearance

In `standard' accessible stalls, the front partition and at least one side partition shall provide a toe clearance of at least 9" above the floor. If the depth of the stall is greater than 60", the toe clearance is not required.



- `Alternate A' Accessible Stall: 42" side wall grab bar each side
- side wall grab bar, one rear wall grab bar.
- Side Wall Grab Bar: Minimum length as indicated, mounted 12" maximum off rear wall.
- Side Wall Vertical Grab Bar: Minimum length as indicated, mounted 39"-41" off
- rear wall. Rear Wall Grab Bar: Minimum length 36", 12" minimum each side of water
- closet centerline. Refer to Element 12.8: Grab Bars for size and structural requirements.

<u>URINALS</u>

- 4.18.2 Height Urinals shall be stall-type or wall hung with an elongated rim at 17" maximum above the floor
- 4.18.3 Clear Floor Space A clear space 30" wide by 48" deep minimum shall be provided in front of urinal
- to allow a forward approach.
- This space shall adjoin or overlap an accessible route.
- Urinal shields that do not extend beyond the front edge of the urinal rim may be provided with 29" clearance between them.
- 4.18.4 Flush Controls Controls shall be 44" maximum above the finished floor.
- Controls shall be hand operated or automatic
- Controls shall be operable with one hand and shall not require tight grasping, pinching, or twisting of the wrist. The force required to activate controls shall be no greater than 5 lbf.



LAVATORIES & MIRRORS

- 4.19.2 Height and Clearance
- Lavatories shall be mounted with the rim or counter surface no higher than 34" above the finish floor.
- Lavatories shall extend 17" minimum from the wall.
- Clearance of 29" minimum shall be provided from finish floor to bottom of apron.
- Knee clearance of 27" minimum shall extend 8" minimum under the edge of the lavatory.
- Toe clearance of 9" minimum shall be provided for the full depth of the lavatory.

- 4.19.3 Clear Floor Space A clear floor space 30" by 48" shall be provided in front of a lavatory to allow forward approach. The clear floor space shall adjoin or overlap an accessible route and shall extend
- a maximum of 19" underneath the lavatory. 4.19.4 Exposed Pipes and Surfaces Hot water and drain pipes under lavatories shall be insulated or otherwise configured to protect against contact. There shall be no sharp or abrasive surfaces under lavatories.
- 4.27.4 Faucets Controls shall be operable with one hand and shall not require tight grasping, pinching, or twisting of the wrist.
- The force required to activate controls shall be no greater than 5 lbf. Lever-operated, push-type, and electronically controlled mechanisms are
- examples of acceptable designs If self-closing valves are used the faucet shall remain open for at least 10 seconds.
- 4.19.6 Mirrors Mirrors shall be mounted with the bottom edge of the reflecting surface 38" maximum above the finish floor.

4.23.9 Medicine Cabinets If medicine cabinets are provided, at least one shall be located with a usable shelf no higher than 44" above the floor.



<u>DETAIL 12.5.2</u>

DETAIL 12.5.1

<u>SINKS</u>

- 4.24.2 Height Sinks shall be mounted with the rim or counter surface no higher than 34" above the finish floor
- 4.24.3 Knee Clearance Knee clearance of 27" high minimum, 30" wide minimum, and 19" deep minimum shall be provided underneath sinks.
- 4.24.4 Depth Each sink shall be a maximum 6-1/2" deep.
- 4.24.5 Clear Floor Space A clear floor space 30" by 48" shall be provided
- in front of a sink to allow forward approach. The clear floor space shall adjoin or overlap an accessible route and shall extend a maximum of 19" underneath the sink.
- 4.24.6 Exposed Pipes and Surfaces Hot water and drain pipes under lavatories shall be insulated or otherwise configured to protect against contact. There shall be no sharp or abrasive surfaces under lavatories.
- 4.27.4 Faucets Controls shall be operable with one hand and shall not require tight grasping, pinching, or twisting of the wrist.
- The force required to activate controls shall be no greater than 5 lbf. Lever-operated, push-type, and electronically controlled mechanisms are examples of acceptable designs.
- If self-closing valves are used the faucet shall remain open for at least 10 seconds.

<u>GRAB BARS</u>

- 4.26.2 Size and Spacing Diameter or width of gripping surface shall be 1-1/4" to 1-1/2", or the shape shall provide an equivalent gripping surface.
- The space between grab bars and adjacent walls shall be 1-1/2". 4.26.3 Structural Strength Grab Bars and mounting devices shall meet the
- following requirements: 1. Bending stress induced by maximum bending moment from application of 250 lbf shall be less than allowable stress for material used. 2. Shear stress induced by application of 250 lbf shall be less than allowable shear stress for material used. If connection between grab
- bar and mounting bracket is considered to be fully restrained, then direct and torsional shear stresses shall be totaled for the combined shear stress, which shall not exceed the allowable shear stress. 3. Shear stress induced in a fastener or mounting device from application of 250 lbf shall be less than allowable lateral load of either the fastener or mounting device or the supporting structure, whichever is the smaller
- allowable load. 4. Tensile force induced in a fastener by a direct tension force of 250 lbf plus the maximum moment from the application of 250 lbf shall be less than the allowable withdrawal load between the fastener and the supporting structure
- 5. Grab bars shall not rotate within their fittings.

4.26.4 Eliminating Hazards Grab bars and adjacent wall surfaces shall be free r + + + → of sharp or abrasive surfaces. Edges shall have a radius of 1/8" minimum.

STORAGE

4.1.3(12)(a) If fixed or built-in storage facilities such as cabinets, shelves, closets, and drawers are provided in accessible spaces, at least one type provided shall contain storage space complying with this section. 4.1.3(12)(b) Where applicable Shelves or display units allowing self-service by

customers in mercantile occupancies shall be located on an accessible route. 4.1.7(3)(e) Where required Historic Preservation Displays and written information, documents, etc. should be located where they

can be seen by a seated person. Exhibits and signage displayed horizontally (e.g., open books) should be no higher than 44" above the floo 4.25.2 Clear Floor Space A clear floor space at least 30" by 48" that allows either a forward or parallel approach by a person using a wheelchair shall be provided

at accessible storage facilities. 48" maximum and 15" minimum above the floor. If the forward reach is over an obstruction (with knee space equal to or greater than reach distance) 20-25" deep, 'Alternate B' Accessible Stall: One 42" side wall grab bar (on near wall), one 18" vertical the maximum height shall be 44"; if the obstruction is less than 20", maximum

- height shall be 48" Where a side reach is provided, accessible storage spaces shall be 54" maximum and 9" minimum above the floor. Maximum height shall be 46" for side reach over an obstruction 34" maximum high and 24" maximum deep. Clothes rods or shelves shall be a maximum 54" above floor where a side reach
- is required. Where the distance from the wheelchair to the clothes rod or shelf exceeds 10" (as at closets with inaccessible doors) the following criteria shall be met: Shelves: maximum reach: 21"; height: 48" maximum, 9" minimum.
- Clothes rods: 21" maximum reach; Height: 48" maximum. 4.27.4 Hardware Hardware for accessible storage facilities shall be operable with
- one hand and shall not require tight grasping, pinching, or twisting of the wrist. The force required to activate hardware shall be no greater than 5 lb.

ANY AMOUN DETAIL 14.1

DETAIL 14.3







DETAIL 14.4

4.1.3(14) If emergency warning systems are provided, then they shall include both audible and visible alarms complying with this section.

4.28.1 Where required When required, visual alarms shall be provided in each of the following areas, as a minimum: restrooms and any other general usage areas (e.g., meeting rooms), hallways,lobbies, and any other area for common use. 4.28.2 Audible Alarms If provided, audible alarms shall produce a sound that exceeds

the prevailing equivalent sound level in the room or space by at least 15 dba or exceeds any maximum sound level with a duration of 60 second by 5 dba, whichever is louder. Sound levels for alarm signals shall not exceed 120 dba. 4.28.3 Visual Alarms Visual alarm signal appliances shall be integrated into the

building or facility alarm system. If single station audible alarms are provided then single station visual alarm signals shall be provided.

Visual alarm appliances shall have the following features: The lamp shall be a xenon strobe type or equivalent.

2. The color shall be clear or nom. white (i.e., unfiltered or clear filtered white light). 3. The maximum pulse duration shall be two-tenths of one second with a maximum duty cycle of 40%. (The pulse duration is defined as the time interval between initial and final points of 10% of maximum signal.)

4. The intensity shall be a minimum of 75 candela.

5. The flash rate shall be a minimum of 1 Hz and a maximum of 3 Hz. 6. The appliance shall be placed 80" above the highest floor level within the space

7. In general, no place in any room or space shall be more than 50' from the signal (measured in a horizontal plane).

In large rooms and spaces exceeding 100' across, without obstructions 6' above the finish floor, such as auditoriums, devices may be placed around the perimeter, spaced a maximum 100' apart, in lieu of suspending appliances from the ceiling. 8. No place in common corridors or hallways shall be more than 50' from the signal.

4.28.4 Auxiliary Alarms Units and sleeping accommodations shall have a visual alarm connected to the building emergency alarm system or shall have a standard 110-volt electrical receptacle into which such an alarm can be connected and a means by which a signal from the building emergency alarm can trigger such an auxiliary alarm.

When visual signals are in place, the signal shall be visible in all areas of the unit or room.

Instructions for use of the auxiliary alarm or receptacle shall be provided.

4.1.3(16)(a) Where applicable

<u>SIGNAGE</u>

4.1.2(7)

minimum

4.1.3(16)(b)

Signs which designate permanent rooms and spaces shall comply with the requirements listed below for

Raised and Brailled Characters and Pictograms

Finish and Contrast Mounting Location and Height

4.1.2(7) 4.1.3(16)(b) Where applicable. Signs which provide direction to, or information about, functional spaces of the building shall comply w/ the requirements listed below for: Character Proportion Character Height

Finish and Contrast

Exception: Building directories, menus, and all other signs which are temporary are not required to comply.

4.1.2(7) Where applicable Elements and spaces of accessible facilities which shall be identified by the International Symbol of Accessibility are: a. Parking spaces designated as reserved for persons with disabilities;

 b. Accessible passenger loading zones; c. Accessible entrances when not all are accessible (inaccessible entrances shall have directional signage to indicate route to nearest accessible

entrance); d. Accessible toilet and bathing facilities when not all are accessible. 4.30.2 Character Proportion

Letters and numbers on signs shall have a width-to-height ratio between 3:5 and 1:1, and a stroke-width-to-height ratio between 1:5 and 1:10.

4.30.3 Character Height Characters and numbers on signs shall be sized according to the viewing distance from which they are to be read. For signs higher than 80" above the finish floor, character size shall be 3"

Lower case letters are permitted.

4.30.4 Raised and Brailled Characters

Letters and numerals shall be raised 1/32", upper case, sans serif or simple serif type and shall be accompanied by grade 2 Braille.

Raised character height: 5/8" minimum. 2" high maximum Pictograms shall be accompanied by the equivalent verbal description placed

directly below the pictogram. The border dimensions of the pictogram shall be 6" minimum.

4.30.5 Finish and Contrast

The characters and background of signs shall be eggshell, matte, or other nonglare finish. Characters and symbols shall contrast with their background (either light characters on a dark background or dark characters on a light background).

4.30.6 Mounting Location and Height Where permanent identification is provided for rooms and spaces, signs shall be

installed on the wall adjacent to the latch side of the door Where there is no wall space to the latch side of the door, including at doubleleaf doors, signs shall be placed on the nearest adjacent wall.

Mounting height shall be 60" above the finish floor to the centerline of the sign. Mounting location for such signage shall be so that a person may approach within 3" of signage without encountering protruding objects or standing within the swing of a door.

4.30.7 Symbols of Accessibility 1. Facilities and elements required to be identified as accessible shall use the

International Symbol of Accessibility 2. Volume Control Telephones, when required, shall be identified by a sign containing a depiction of a telephone handset with radiating sound waves. 3. Text Telephones, when required, shall be identified by the International TDD Symbol. In addition, if a facility has a public text telephone, directional

signage indicating the location of the nearest text telephone shall be placed adjacent to all banks of telephones which do not contain a text telephone. Such directional signage shall include the international TDD symbol. If a facility has no banks of telephones, the directional signage shall be provided at the entrance (e.g. in a building directory).

4. Assistive Listening Systems. In assembly areas where permanently installed assistive listening systems are required, the availability of such systems shall be identified with signage that includes the International Symbol of Access for Hearing Loss.



Letter & numbers on signs shall have a width to height ratio of between 3:5 & 1:1 and a stroke width to height ratio between 1:5 & 1:10. Letters and numbers shall be raised 1/32", upper case, sans serif or simple serif type and shall be accompanied with grade 2 Braille, raised characters shall be at least 5/8" high, but no higher than 2".



DETAIL 16.1

DETAIL 16.2



PUBLIC TELEPHONES

4.1.3(17)(a) Where applicable If public pay telephones, public closed circuit telephones, or other public telephones are provided, then they shall comply with this section in the quantities indicated below:

- 1. If one or more single unit of a type of public telephone is provided on a floor, then at least one of those phones shall comply with this section. 2. If one bank (defined as two or more adjacent public telephones, often
- as a unit) of a type of telephone is provided on a floor, then at least one of the telephones at the bank shall comply with this section. 3. If two or more banks of a type of public telephone are provided on a floor, then at least one telephone per bank shall comply with this section. The accessible unit may be installed as a single unit in proximity (either visible or with signage) to the bank. At least one public telephone per floor shall meet the requirements for a forward reach telephone.

Exception: For exterior installations only, if dial tone first service is available then a side reach telephone may be installed instead of the required forward reach telephone (i.e., one telephone in proximity to each bank shall comply with this section)

Additional public telephones may be installed at any height. Unless otherwise specified, accessible telephones may be either forward or side reach. 4.1.3(17)(b) Where applicable All telephone required to be accessible shall be equipped with a volume control. In addition, 25%, but never less than one, of all other public telephones provided shall be equipped with a volume control and shall be dispersed among all types of telephones, including closed circuit telephones,

throughout the building or facility. Signage displaying the International Symbol of Access for Hearing Loss shall be provided at each telephone equipped with a volume control.

4.1.3(17)(c) Text Telephones: Where required

- 1. If a total number of 4 or more public pay telephones (including both interior and exterior phones) is provided at a site, and at least one is in an interior
- location, then at least one interior public text telephone shall be provided. 2. If an interior public pay telephone is provided in a stadium or arena, in a
- convention center, in a hotel with a convention center, or in a covered mall, at least one interior public text telephone shall be provided in the facility.
- 3. If a public telephone is located in or adjacent to a hospital emergency room. hospital recover room, or hospital waiting room, one public text telephone

Where a bank of telephones in the interior of a building consists of 3 or more public pay telephones, at least one public pay telephone in each such bank shall be equipped with a shelf and outlet to accommodate a portable text telephone as described below. 4.1.6(1)(e) Where required Alterations/Existing Conditions:

- At least one interior public text telephone shall be provided if: 1. Alterations to existing buildings or facilities with less than 4 exterior or
- interior public pay telephones would increase the total number to 4 or more telephones with at least one in an interior location; or

2. Alterations to one or more exterior or interior public pay telephones occur in an existing building or facility with 4 or more public telephones with at least one in an interior location

4.31.2 Clear Floor Space A clear floor or ground space at least 30" by 48" that allows either a forward or parallel approach by a person using a

wheelchair shall be provided at telephones Bases, enclosures, and fixed seats shall not impede approaches to telephones by people who use wheelchairs

4.31.3 Mounting Height The highest operable part of the telephone shall be 48" max. above the floor where a forward reach is req., and 54" max. where a side reach is req. If the forward reach is over an obstruction (with knee space equal to or greater than reach distance) 20-25" deep the maximum height shall be 44"; if the obstruction is

less than 20" deep, maximum height shall be 48". Maximum height shall be 46" for side reach over an obstruction 34" maximum high and 24" maximum deep.

4.4.1 Protruding Objects Objects projecting from walls with their leading edges between 27" and 80" above the finished floor shall protrude no more than 4" into walks or corridors. Objects projecting from walls with their leading edges at or below 27" above the finished floor may protrude any amount.

Free-standing objects mounted on posts or pylons may overhang 12" maximum from 27" to 80" above the finished floor or ground. Protruding objects shall not reduce the required clear width of an accessible route or maneuvering space.

4.31.5 Hearing Aid Compatible and Volume Control Telephones Where required:

1. Telephones shall be hearing aid compatible.

2. Volume controls, capable of a minimum of 12 dbA and a maximum of 18 dbA above normal, shall be provided. If an automatic reset is provided. then 18 dbA may be exceeded

4.31.7 Telephone Books Telephone books, if provided, shall be located in a position that complies w/ the same reach ranges noted above for operable parts of telephones 4.31.8 Cord Length The cord from the telephone to the handset shall be

- at least 29" long. 4.31.9 Text Telephones Where required:
- 1. Text telephones used with a pay telephone shall be permanently affixed within, or adjacent to, the telephone enclosure. If an acoustic coupler is used. the telephone cord shall be sufficiently long as to allow connection of the text telephone and the telephone receiver.
- 2. Pay telephones designed to accommodate a portable text telephone shall be equipped with a shelf and an electrical outlet within or adjacent to the telephone enclosure. The telephone handset shall be capable of being placed flush on the surface of the shelf. The shelf shall be capable of accommodating a text telephone and shall have 6" minimum vertical
- clearance in the area where the text telephone is to be placed. 3. Equivalent facilitation may be provided. (For example, a portable text telephone may be made available in a hotel at the registration desk if it is available on a 24 hour basis for use with nearby public pay telephones. In this instance, at least 1 pay telephone shall be designed to accommodate the portable text telephone.)



DETAIL 17.1

SEATING AND TABLES

4.1.3(18) Where applicable If fixed or built-in seating or tables (including, but not limited to study carrels and

student laboratory stations) are provided in accessible public or common use areas, at least 5%, but not less than 1, shall comply with this section. An accessible route shall lead to and through such areas.

4.32.2 Seating If seating spaces for people in wheelchairs are provided at fixed tables or counters, a minimum clear floor space for 30" by 48" shall be provided. Clear floor space may extend under the table or counter (into the knee space)

19" maximum. 4.32.3 Knee clearances If seating for people in wheelchairs is provided at fixed tables or counters, knee spaces at least 27" high, 30" wide, and 19" deep

shall be provided.

4.32.4 Height of Tables or Counters The tops of accessible tables and counters shall be 28" minimum, and 34"

maximum, above the finish floor.

AUTOMATIC TELLER MACHINES

4.34.2 Clear Floor Space A clear floor space at least 30" by 48" that allows either a forward or parallel approach by a person using a wheelchair shall be provided. Exception: Drive-up-only ATM's need not comply with this item.

4.27.3 Height Where a forward reach is required, controls and operating mechanisms shall be 48" maximum and 15" minimum above the floor. If the forward reach is over an obstruction (with knee space equal to or greater than reach distance) 20-25" deep, maximum height shall be 48".

Where a side reach is provided, controls and operating mechanisms shall be 54" maximum and 9" minimum above the floor. Maximum height shall be 46" for side reach over an obstruction 34" maximum high and 24" maximum deep. Exception: Drive-up-only ATM's need not comply with this item.

4.27.4 Controls and Operating Mechanisms Shall be operable with one hand and shall not require tight grasping, pinching, or twisting of the wrist.

The force required to activate controls shall be no greater than 5 lbf. 4.34.3 Clearances and Reach Ranges

Free standing or built-in units not having a clear space under them shall provide for a parallel approach and both a forward and side reach to the unit. Exception: Drive-up-only ATM's need not comply with this item.

ependently usable by persons with vision impairments. 4.34.4 Equipment for Persons with Vision Impairments Instructions and all information for use shall be made accessible to and notes/sketches:

REACH DEPTH	MAXIMUM HEIGHT	REACH DEPTH	MAXIMUM HEIGHT	REACH DEPTH	MAXIMUM HEIGHT
IN INCHES	IN INCHES	IN INCHES	IN INCHES	IN INCHES	IN INCHES
10 OR LESS	54	15	51	20	48 1/2
11	53 1/2	16	50 1/2	21	47 1/2
12	53	17	50	22	47
13	52 1/2	18	49 1/2	23	46 1/2
14	51 1/2	19	49	24	46

NOTE : ABOVE DOES NOT APPLY TO DRIVE UP MACHINES





FRONT APPROACH



ALL JOINTS TO BE

CITY STANDARDS

ACCESSIBILITY STANDARDS (L.A.S.).

1/8" MAX. EL.

DIFFERENTIAL

SEALED AND SMOOTH

FÍ ARFD SIDF

1 TO 12 SLOPE UP

TYPICAL HANDICAP

RAMP SECTION



- RE: RAMP PLANS



















THRESHOLDS



ALL EXISTING AND NEW HARDWARE, EQUIPMENT, MOUNTING HEIGHTS, ACCESSIBLE ROUTES, ETC. SHALL COMPLY WITH THE AMERICAN'S WITH DISABILITIES ACT & LOCAL ACCESSIBILITIES STANDARDS.

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SITE PLAN

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PIT DEPTH

PIT WIDTH









PIT INSPECTION



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- SEPARATING THE SUSPENDED CEILING INTO AREAS LESS THAN 2,500 SQUARE FEET.

REFLECTED	CEILING LEGEND	







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HARDWARE SET OH-1	DOOR SCHEDULE											
O.H. DOORS 110A, 110B, 110C, 110D EACH O.H. TO RECEIVE:	Door /1	DOOR			DOOR		FRAME		DETAILS		FIRE	
1 CYLINDER BEST LOCKS		WIDTH	HEIGHT	THICKNESS	YPE MATERIAL	FINISH	TYPE MATERIA	L FINISH	HEAD	JAMB	SILL RATING HARDW	ARE COMMENTS
NOTE BALANCE OF HARDWARE, BY O.H.D. SUPPLIER		SLIDING PAIR 3'-0"	8'-0"	0' - 1 3/4"	A ALUM	ANODIZED	ALUM	ANODIZED				BY STOREFRONT MANUFACTURER
HARDWARE SET 1	100B C-STORE	PAIR 3'-0"	8'-0"	0' - 1 3/4" 👌 🛛	AA ALUM	ANODIZED	ALUM	ANODIZED				, manuna l
PAIR STOREFRONT DOORS 100B PAIR TO RECEIVE:	102 WOMENS TOILET	3'-0"	7' - 0"	0' - 1 3/4"	B WD	PAINT	B HM	PAINT	1/A4.0	1/A4.0		
2 EA CONT HINGE BY STOREFRONT MFG	103 MENS TOILET	3' - 0"	7'-0	0' - 1 3/4"	B WD	PAINT	B HM	PAINT	1/A4.0	1/A4.0		
2 SET PUSH/PULL BF15747 X REQD CTC X T3HD CLEAR ANOD. BEST C	D 105A LAUNDRY	3' - 0"	7' - 0"	0' - 1 3/4"	C HM	PAINT	C HM	PAINT			4	
0 NOTE FLUSHBOLTS, LOCKS, SEALS, & THRESHOLD, BY STOREFRON	IFG	3' - 0"	7' - 0"	0' - 1 3/4" {	C HM	PAINT	C HM	PAINT			5	
1 EA RIM EXIT DEVICE BY STOREFRONT MFG 1 EA SWEEP BY STOREFRONT MFG	100 OFFICE	Λ PAIR 3'-0"	<u> </u>	0' - 1 3/4"	E E.P.I	E.P.I.	E E.P.I	E.P.I.			7	
HARDWARE SET 2	108A ELECTRIC ROOM	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	7'-0"	0' - 1 3/4"	F HM	PAINT	F HM	PAINT			8	PROVIDE 2" UNDERCUT @ ELEC R
DOORS: 102, 103		3' - 0"	7' - 0"	0' - 1 3/4"		PAINT	HM		fun	h	5 SIN	
EACH DOOR TO HAVE: 3 HINGES BB1279 4 1/2 X 4 1/2 US26D HAGER	1109 VACOOM ROOM	14" - 6"	10' - 0"	0'-13/4	G POLY-CARB	L.F.I.		PREFINISHEI	D		OH-1	1
1PRIVACY SET9K3-0L14D S3626BEST LOCKS1CLOSER5200ALMHAGER	110B WASH TUNNEL	14' - 6"	10' - 0"	0' - 1 1/2"	G POLY-CARB			PREFINISHE	כ		OH-1	1
CAT A KICKPLATE A A M1945 10" X 2" LDW A A MUS32D A HAGER WALLSTOP 236W UN US26D (HAGER	110C WASH TUNNEL	14' - 6"	10' - 0"	0' - 1 1/2"	G POLY-CARB			PREFINISHE			OH-1	1
3 DOOR SILENCERS 307D GREY (HAGER	110E WASH TUNNEL	3' - 0"	7' - 0"	0' - 1 3/4"	C HM	PAINT	C HM	PAINT			3	
DOORS: 104	110F WASH TUNNEL	3' - 0"	7' - 0"	0' - 1 3/4"	C HM	PAINT	C HM	PAINT			3	
EACH DOOR TO HAVE: 3 HINGE BB1191 4 5 X 4 5 NRP X SH US32 HAGER												
1 STOREROOM 93K7D14D X S3 US26 BEST LOCKS 1 CLOSER P4041 US32 LCN						5' - 1" 2"	6' - 0"	2"	EQ	2"	EQ 2" EQ	2" EQ
3 SILENCER GJ64 GLYNN-JOHNSC 1 KICKPLATE 10" X 2" LDW B4E US32 ROCKWOOD	CO. <u>1</u>				- Aun	mm	······	nfinn	······	fun	multim	mprompro)
HARDWARE SET 4				PROVIDE 4"	\			[
SINGLE DOOR 105A	1" INSULATED	1" INSULATED		2" <u>4</u> 2	δ							
TO RECEIVE: 3 HINGE BB1191 4.5 X 4.5 NRP X SH US32D HAGER					÷						· · · · · · · · · · · · · · · · · · ·	
1 CLASSROOM 8T37 S US26 BEST LOCKS 1 PUSH PLATE 8200 4" X 16" 630 IVE			i jui	á find								
1 PULL PLATE 8303 10" X 16" 630 IVE 1 OH STOP 90S 630 GLYNN-JOHNSO												
1 SURF. AUTO OPP. 4642 WMS 689 LCN 2 ACTUATOR TOUCHUESS 8310 813 BLK LCN			k´.	-								
1 CLOSER TEMPLATING, PRACKETS SHOES					.00							
SPACERS, ETC AS REQUIRED LCN			-									
1 GASKETING 160VA X HEAD & JAMBS AA NGP 1 DOOR SWEEP 202NA X REO'D WIDTH A NGP			U	/1								
1 THRESHOLD 426 X REQ'D WIDTH A NGP 1 KEY SWITCH 653-04 12/24 VDC 626 SCE												
HARDWARE SET 5			WOOD DO BIRCH VEN)OR IFER								
SINGLE DOOR 105B, 106		Doorto	DOOR IN 16 GA	AGE HM								
TO RECEIVE: 3 HINGEBB11914,5-X,4-5 NRP X SH US32 HAGER				-	$\downarrow \downarrow \sqsubseteq$							
1 (STOREROOM 93K7014D X S3 US26 BEST LOCKS 1 CLOSER 4041-SCUSH US32 LCN												
1KICKPLATE10" X 2" LDW B4EUS32ROCKWOOD3SILENCERGJ64GLYNN-JOHNSC		-			STOREFR	ONT TYPE GL-A						
SINGLE DOOR 108B									$\gamma \gamma $			STOREFRONT ASSEMBLY
(TO RECEIVE HARDWARE SET 5 WITH PANIC HARDWARE		- {					\wedge	} 4.1/2" 2'-0" 2"	MANUF NOTE	D R.O. SIZE	2". FQ 2".	FQ
(HARDWARE SET 7		-						munp	FOR 6'-0"	"DOOR		
PAIR DOORS 107-109												
TO RECEIVE: 2 SS CONT HINGE HG-305 X 1" LESS THAN DOOR		-										
HGT X S.S. THRU BOLTS US32D MARKAR PROD 2 SURFACE BOLT 630-12 X S.S THRU BOLTS US32D ROCKWOOD	ΓS, INC.	-										
1MORT. LOCKCLASSROOM 35H7J14HUS32DBEST LOCKS2FL STOP & HOLD473US32DROCKWOOD	<u>C</u> 14 GAGE HOLLOW METAL	NOT USED										mun)
1S.S. THRESH814SS 4" X REQ'D WIDTH304 SSNAT GUARD1S.S. THRESHSTOP STRIP BAR2SS (DRILLED FOR SCREWS)	DOOR IN 14 GAGE HM FRAME					1" INSU PREFIN	LATED GLASS IN					
X REQ'D WIDTH 304 SS NAT GUARD 1 KICKPLATE 10" X 2" LDW B4E US32D ROCKWOOD	MASONRY OPENING					STORE	FRONT ASSEMBLY					
1DRIP CAP16A X DR WIDTH + 4"ALUMNAT GUARD1S.S. SEAL129NSS X HEAD & JAMBSS.S.NAT GUARD	2"~											
2SWEEP200NSS X REQ'D WIDTHS.S.NAT GUARD1ASTRAGAL109NSS X REQ'D HGTS.S.NAT GUARD												
TO RECEIVE:			~~~~~~									
3 HINGE BB1191 4.5 X 4.5 NRP X SH US32D HAGER 1 PANIC W/ LVR_TRIM			12"X12" S.S.) LOUVER									
1 CLOSER P4041 ALUM LCN 3 SILENCER GJ64 GLYNN-JOHNSO			uning		<u>NOTE:</u> 1. ALL	GLASS TEMPERED						
1 KICKPLATE 10" X 2" LDW B4E US32D ROCKWOOD					_							
		14 GAGE HOLLOW ME	ΤΔΙ					STO	KEFKUNT TYPE (GL-B		

<u>NOTES</u>

- LEAVE MANUFACTURER'S PROTECTIVE FILM INTACT AND PROVIDE PROPER PROTECTION 1. FOR ALL OTHER FINISH HARDWARE ITEMS THAT DO NOT HAVE PROTECTIVE MATERIAL FROM THE MANUFACTURE UNTIL OWNER ACCEPTS PROJECT AS COMPLETE.
- GUIDE: DOOR HARDWARE ITEMS HAVE BEEN PLACED IN SETS WHICH ARE INTENDED TO BE A GUIDE OF DESIGN, GRADE, QUALITY, FUNCTION, OPERATION, PERFORMANCE, EXPOSURE, 2. AND LIKE CHARACTERISTICS OF DOOR HARDWARE, AND MAY NOT BE COMPLETE. PROVIDE DOOR HARDWARE REQUIRED TO MAKE EACH SET COMPLETE AND OPERATIONAL.
- HARDWARE SCHEDULE DOES NOT REFLECT HANDING, BACKSET, METHOD OF FASTENING, AND LIKE CHARACTERISTICS OF DOOR HARDWARE AND DOOR OPERATION. 3.
- REVIEW DOOR HARDWARE SETS WITH DOOR TYPES, FRAMES, SIZES AND DETAILS ON DRAWINGS. VERIFY SUITABILITY AND ADAPTABILITY OF ITEMS SPECIFIED IN RELATION TO 4. DETAILS AND SURROUNDING CONDITIONS.

2 DOOR AND FRAME TYPES 1/4" = 1'-0"

0

2 BUILDING SECTION 1/8" = 1'-0"

STRUCTURAL ENGINEER

KREHER ENGINEERING, INC. 208 NORTH MAIN STREET, SUITE H COLUMBIA, IL 62236 PHONE: 618.281.8505 CONTACT: JIM KREHER

MEP ENGINEERING

G & W ENGINEERING 138 WELDON PARKWAY MARYLAND HEIGHTS, MO 63043 PHONE: 314.469.3737 CONTACT:

CD <u>6</u>3 EIN 640 V LOWENSTI UMMIT, MO \mathcal{O} 2070 NW LEE'S SI OF MIS ANDREV SCHOESEL NUMBER A-2004024872 PCHITE Sui 8-6-24 The seal(s) and signature(s) apply only to the document to wich they are affixed and we expressly dislcaim any responsibility for all other plans, specifications, estimates, reports or other documents or instraments relating to or inteded to be used for any part or parts of the project **Revisions:** 1 PERMIT COMMENTS 8/6/24

WALL SECTIONS (NORTH)

Issue Date: 05/31/2024

S S ш α × ш 0.03 6 8725 Big Bend Boule St. Louis, Missouri phone: 314-961-950 E E C 2

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4 SOUTH WALL SECTION AT TUNNEL 1/2" = 1'-0"

$4 \frac{\text{INTERIOR ELEVATION - WASH TUNNEL}}{1/8" = 1'-0"}$

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

ROOM FINISH SCHEDULE

NAME	FLOOR FINISH	BASE	WALL FINISH	CEILING FINISH	CEILING HEIGHT	COMMENTS
					·	
C-STORE	TILE-1	TILE-2	PT-1/PT-2	PT-3	<u>{14' - 8"</u>	
HALLWAY	TILE-1	TILE-2	PT-1	PT-3	9' - 0"	
WOMEN'S	TILE-1	TILE-2	TILE-3/PT-1	PT-3	9' - 0"	RE INTERIOR ELEVATIONS AND FINISH PLAN
MEN'S	TILE-1	TILE-2	TILE-3/PT-1	PT-3	9' - 0"	RE INTERIOR ELEVATIONS AND FINISH PLAN
DRY STORAGE	EPXY-1	WB-1	PT-1	ACT-1	9' - 0"	
LAUNDRY	SC-1	WB-1	PT-1	PT	\{14' ₇ 8"}	
OFFICE	TILE-1	TILE-2	PT-1	ACT-1	9' - 0"	
EQUIPMENT ROOM	SC-1		PT-1	PT	(14' - 8" \	
ELECTRIC ROOM	SC-1		PT-1	PT	∕ 14' - 8"∢	
VACUUM	SC-1		PT-1	PT	14' - 8"	
WASH TUNNEL	CONC-1	EPI-1	EPI-1	EPI-1	14' - 8"	
	NAME C-STORE HALLWAY WOMEN'S MEN'S DRY STORAGE LAUNDRY OFFICE EQUIPMENT ROOM ELECTRIC ROOM VACUUM WASH TUNNEL	NAMEFLOOR FINISHC-STORETILE-1HALLWAYTILE-1WOMEN'STILE-1MEN'STILE-1DRY STORAGEEPXY-1LAUNDRYSC-1OFFICETILE-1EQUIPMENT ROOMSC-1ELECTRIC ROOMSC-1VACUUMSC-1WASH TUNNELCONC-1	NAMEFLOOR FINISHBASEC-STORETILE-1TILE-2HALLWAYTILE-1TILE-2WOMEN'STILE-1TILE-2MEN'STILE-1TILE-2DRY STORAGEEPXY-1WB-1LAUNDRYSC-1WB-1OFFICETILE-1TILE-2EQUIPMENT ROOMSC-1ELECTRIC ROOMSC-1VACUUMSC-1WASH TUNNELCONC-1EPI-1	NAMEFLOOR FINISHBASEWALL FINISHC-STORETILE-1TILE-2PT-1/PT-2HALLWAYTILE-1TILE-2PT-1WOMEN'STILE-1TILE-2TILE-3/PT-1MEN'STILE-1TILE-2TILE-3/PT-1DRY STORAGEEPXY-1WB-1PT-1LAUNDRYSC-1WB-1PT-1OFFICETILE-1TILE-2PT-1EQUIPMENT ROOMSC-1PT-1ELECTRIC ROOMSC-1PT-1VACUUMSC-1EPI-1WASH TUNNELCONC-1EPI-1EPI-1EPI-1	NAMEFLOOR FINISHBASEWALL FINISHCEILING FINISHC-STORETILE-1TILE-2PT-1/PT-2PT-3HALLWAYTILE-1TILE-2PT-1PT-3WOMEN'STILE-1TILE-2TILE-3/PT-1PT-3MEN'STILE-1TILE-2TILE-3/PT-1PT-3DRY STORAGEEPXY-1WB-1PT-1ACT-1LAUNDRYSC-1WB-1PT-1PTOFFICETILE-1TILE-2PT-1PTEQUIPMENT ROOMSC-1PT-1PTELECTRIC ROOMSC-1PT-1PTVACUUMSC-1EPI-1EPI-1EPI-1WASH TUNNELCONC-1EPI-1EPI-1EPI-1	NAMEFLOOR FINISHBASEWALL FINISHCEILING FINISHCEILING HEIGHTC-STORETILE-1TILE-2PT-1/PT-2PT-314'-8"HALLWAYTILE-1TILE-2PT-1PT-39'-0"WOMEN'STILE-1TILE-2TILE-3/PT-1PT-39'-0"MEN'STILE-1TILE-2TILE-3/PT-1PT-39'-0"DRY STORAGEEPXY-1WB-1PT-1ACT-19'-0"LAUNDRYSC-1WB-1PT-1PT14'-8"OFFICETILE-1TILE-2PT-1ACT-19'-0"EQUIPMENT ROOMSC-1PT-1PT14'-8"VACUUMSC-1PT-1PT14'-8"WASH TUNNELCONC-1EPI-1EPI-1EPI-1

INTERIOR FINISH LEGEND

FLOOR)	BEA AIR COI FINI SIZI INS GR(NO
ASE)	tile Sizi
/ALL TILE IN	BATHI AMI COL COL SIZI INS GRO

GROUT	
GR-1	CUS COL
GR-2	TEC ACC COL
SEALED CONRETE	
SC-1	SEA LOC
EPOXY	
EPXY-1	
PAINT	

	COLC
T-2 (ACCENT)	BENJ COLC
T-3 (CEILING)	BENJ COLC
	$\sim\sim$

ANE	ELS	
	<u> </u>	
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	1	N

5 INTERIOR ELEVATION - WASH TUNNEL 1/8" = 1'-0"

STRUCTURAL ENGINEER

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1 1 INTERIOR ELEVATION - C-STORE 3/8" = 1'-0"

1 WOMEN'S - ENLARGED PLAN 3/8" = 1'-0"

TOILET ROOM ACCESSORIES

SYMBOL	ITEM	MFG	MODEL
TA-A	GRAB BARS (CONCEALED ANCHORS)	ASI	3700 42"
TA-B	GRAB BARS (CONCEALED ANCHORS)	ASI	3700 36"
TA-C	GRAB BARS (CONCEALED ANCHORS	ASI	3700 18"
TA-D	PAPER TOWEL DISPENSER / TRASH CAN SEMI-RECESSED NOTE: OWNER TO PROVIDE	ASI	64696A-6
TA-E	MIRROR	ASI	0620
TA-F	COAT HOOKS	ASI	7308
TA-G	AUTOMATIC SOAP DISPENSER	ASI	0360
ТА-Н	TOILET PAPER DISPENSER 1 (SURFACE MOUNTED, JUMBO ROLL)	ASI	0039
TA-I	SANITARY WASTE RECEPTACLE (SURFACE MOUNTED)	ASI	20852
TA-J	BABY CHANGING STATION	KOALA KARE	KB310-SSWM

TOILET ROOM AND ACCESSORY NOTES

REFER TO SHEETS A0.1 AND A0.2 FOR ADA MOUNTING HEIGHTS.

ALL FAUCETS SHALL BE ADA ACCESSIBLE, LEVER OPERATED RESTROOM SIGNAGE: 3.

В.

- A. DOOR SIGN DOORWAYS LEADING TO THE MEN'S RESTROOM SHALL BE a. IDENTIFIED BY AN EQUILATERAL TRIANGLE WITH EDGES 12" LONG AND A VERTEX POINTING UPWARD
 - DOORWAYS LEADING TO THE WOMEN'S RESTROOM b.
 - SHALL BE IDENTIFIED BY A CIRCLE 12" IN DIAMETER BACKGROUND COLOR: BLUE, FIGURE COLOR: WHITE -
 - C. NON GLARE FINISH
 - MOUNTING HEIGHT: CENTER OF SIGN 5'-0" AFF ON DOOR d. MOUNTING METHOD: DOUBLE STICK FOAM TAPE, SCOTCH е. BRAND 3M
 - THICKNESS: 1/4"
 - FABRICATION METHOD: NEW PLEXIGLASS SIGN WITH SUBSURFACE GRAPHICS AND BACK SPRAY PAINT FINISH APPLICABLE CODES: ADA 2010 STANDARDS h. WALL SIGN
 - 1/32" RAISED SANS-SERIF UPPERCASE CHARACTERS а.
 - ACCOMPANIED BY GRADE 2 BRAILLE CHARACTERS MIN. 5/8" HIGH
 - MOUNTING HEIGHT: CENTER OF SIGN 5'-0" AFF ON THE b. WALL - LATCH SIDE
 - MOUNTING METHOD: DOUBLE STICK FOAM TAPE, SCOTCH C.
 - BRAND 3M THICKNESS: 1/4" d.
 - APPLICABLE CODES: ADA 2010 STANDARDS е.

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Revisions: 1 PERMIT COMMENTS 8/6/24

A9.

Issue Date: 05/31/2024

8/5/2024 3:40:07 PM THE PROFESSIONAL ENGINEERS SEAL AFFIXED TO THIS SH THE NAMED ENGINEER HAS PREPARED OR DIRECTED THE I MATERIAL SHOWN ONLY ON THIS SHEET. OTHER DRAWIN NOT EXHIBITING THIS SEAL, SHALL NOT BE CONSIDERED RESPONSIBILITY OF THE UNDERSIGNED. K24-074

TION OF THIS DRA TION OF THIS DRA FED, BUT AT THE U L SEALS, FIRM NA . ASSUME FULL RFG

FILL GRAVEL		SPAN DIRECTION	SLOPE 1/8" : 1'-0"	SLAB/DECK SLOPE	Р
	E E	CENTERLINE SYMBOL	TC = XXX'-X"	TOP OF CONCRETE	S S S
CTED GRAVEL		REVISION TRIANGLE	TW = XXX'-X"	TOP OF WALL	RE
ONCRETE		PLAN NORTH ARROW	BL = XXX'-X"	BRICK LEDGE	ХTU
FILL	1 A101	<u>PLAN DETAIL / SECTION SYMBOL</u> TOP - DETAIL NUMBER BOTTOM - SHEET NUMBER	FF= XXX'-X"	FINISH FLOOR	ITE)
LOCK WALL		PLAN DETAIL CALLOUT TOP - DETAIL NUMBER BOTTOM - SHEET NUMBER	BMD= XXX'-X"	BOTTOM METAL DECK	RCH
	x	BRACE FRAME CALLOUT TOP - DETAIL NUMBER BOTTOM - SHEET NUMBER			
IG CONCRETE		METAL STUD SHEAR WALL BRACING			
	•	STEEL MOMENT CONNECTION (LFRS	S/SFRS)		D
		STEEL CANTILEVER MOMENT CONNI	ECTION		3
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Pd=THIS SHEET

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PLAN SYMBOLS LEGEND

CODES AND STANDARDS

CODES AND STANDARDS (LATEST EDITION, U.N.O.)

1.	PROJECT BUILDING CODE: IBC 2018
2.	DESIGN LOADS: A. ASCE 7-16
3.	CONCRETE CONSTRUCTION: A. ACI 301 B. ACI 304 C. ACI 305 D. ACI 306 E. ACI 308 F. ACI 309 G. ACI 315 H. ACI 318 I. ACI 347
4.	STEEL CONSTRUCTION: A. AISC 360 B. AISC 341 C. AISC 358 D. AWS E. SJI COSP F. SDI COSP
5.	COLD-FORMED METAL FRAMING: A. AISI B. SSMA
6.	MASONRY CONSTRUCTION: A. TMS 402/602

WOOD CONSTRUCTION: A. NDS

LEGENDS AND SYMBOLS

OF M

JAMES C. KREHER

NUMBER

Exp 12-31-25

E-25562

The seal(s) and signature(s) apply only to

the document to wich they are affixed and

all other plans, specifications, estimates,

instraments relating to or inteded to be

used for any part or parts of the project

reports or other documents or

Revisions:

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GENERAL NOTES:

THE GENERAL NOTES ARE NOT A SUBSTITUTE OR A REPLACEMENT TO THE PROJECT SPECIFICATIONS. THESE NOTES ARE INTENDED AS A GUIDE TO THE DESIGN AND/OR CONSTRUCTION REQUIREMENTS ESTABLISHED FOR THIS PROJECT. NO CONTRACTOR SHOULD ATTEMPT TO DESIGN, BID OR CONSTRUCT ANY PORTION OF THE WORK HEREIN WITHOUT CONSULTING THE PROJECT SPECIFICATIONS. WHERE CONFLICTS OCCUR BETWEEN THESE NOTES AND THE SPECIFICATIONS THE MORE STRINGENT REQUIREMENTS SHALL APPLY UNLESS A WRITTEN CLARIFICATION IS ISSUED BY THE STRUCTURAL ENGINEER. VARIATION IN THE FIELD CONDITIONS RELATIVE TO THE CONTRACT DOCUMENTS SHALL BE REPORTED TO THE ARCHITECT. WORK SHALL NOT PROGRESS UNTIL WRITTEN PERMISSION FROM THE ARCHITECT IS OBTAINED.

CONSTRUCTION AND SAFETY:

- THE CONTRACTOR AND THIER SUBCONTRACTORS ARE SOLELY RESPONSIBLE FOR ALL SAFETY REGULATIONS, PROGRAMS AND PRECAUTIONS RELATED TO ALL WORK ON THIS PROJECT.
- THE CONTRACTOR AND THIER SUBCONTRACTORS ARE SOLELY RESPONSIBLE FOR THE PROTECTION OF PERSONS AND PROPERTY EITHER ON OR ADJACENT TO THE PROJECT AND SHALL PROTECT SAME AGAINST INJURY, DAMAGE OR LOSS.
- MEANS AND METHODS OF CONSTRUCTION AND ERECTION OF STRUCTURAL MATERIALS ARE SOLELY THE CONTRACTOR'S RESPONSIBILITY.
- THE STRUCTURAL DRAWINGS ARE INTENDED TO BE USED IN CONJUNCTION WITH THE DRAWINGS OF OTHER CONSULTANTS AND TRADES. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE VARIOUS REQUIREMENTS.
- THE CONTRACTOR AND THIER SUBCONTRACTORS ARE RESPONSIBLE FOR LIMITING THE AMOUT OF CONSTRUCTION LOAD IMPOSED ON THE STRUCTURE DURING DEMOLITION AND OR CONSTRUCTION. SUCH LOADS SHALL NOT EXCEED THE CAPACITY IF THE STRUCTURE AT ANY TIME.
- ALL DEMOLITION AND OR CONSTRUCTION PROCEDURES SHALL BE REVIEWED BY A 6. SPECIALTY CONSTRUCTION ENGINEER, SEE **DEFERED SUBMITTALS** SECTION OF THE GENERAL NOTES.
- NO CHANGES IN SIZE, DIMENSION OR LOCATION, SHALL BE MADE IN ANY STRUCTURAL 7. ELEMENTS WITHOUT THE WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER.
- CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO ORDERING MATERIALS 8. OR PROCEEDING WITH NEW WORK IN AREAS AFFECTED BY EXISTING CONDITIONS. STRUCTURAL ENGINEER SHALL BE INFORMED IN WRITING OF CONFLICTS BETWEEN EXISTING AND PROPOSED NEW CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL DIMENSIONS SHOWN ON THE CONTRACT DOCUMENTS. INCONSISTENCIES ON THE STRUCTURAL DRAWINGS OR BETWEEN THE STRUCTURAL DRAWINGS AND ANY OTHER CONTRACT, SHOP FABRICATION, OTHER DRAWINGS OR INFORMATION SHALL BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER PRIOR TO PROCEEDING WITH AFFECTED WORK
- 10. DO NOT SCALE THESE DRAWINGS, USE THE DIMENSION SHOWN.
- THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION AND ANY 11. TEMPORARY BRACING FOR LOADS INDUCED DURING CONSTRUCTION OR SUPPORT REQUIRED TO ACCOMODATE THE CONTRACTOR'S MEANS AND METHODS ARE THE RESPONSIBILITY OF THE CONTRACTOR.
- THE CONTRACTOR SHALL INFORM THE STRUCTURAL ENGINEER, CLEARLY AND 12. EXPLICITLY IN WRITING OF ANY DEVIATION OR SUBSTITUTION OF REQUIREMENTS OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL NOT BE RELIEVED OF ANY REQUIREMENTS OF THE CONTRACT DOCUMENTS BY VIRTUE OF THE STRUCTURAL ENGINEER'S REVIEW OF SHOP DRAWINGS, PRODUCT DATA, ETC. UNLESS THE CONTRACTOR HAS CLEARLY AND EXPLICITLY INFORMED THE STRUCTURAL ENGINEER IN WRITING OF ANY DEVISTIONS OR SUBSTITUTIONS AT TIME OF SUBMISSION, AND THE STRUCTURAL ENGINEER HAS BEEN GIVEN WRITTEN APPROVAL FOR THE SPECIFIC DEVIATIONS OR SUBSTITUTIONS.

SUBMITTALS:

3.

4.

- SHOP DRAWING REVIEW: COORDINATION OF WORK OF ALL TRADES.
- SHOP DRAWINGS SHALL BE APPROVED BY THE ARCHITECT / ENGINEER OF RECORD 2. PRIOR TO FABRICATION. FABRICATION OF ITEMS BEFORE APPROVAL WILL BE THE REPONSIBILITY OF THE CONTRACTOR FOR ERRORS AND OMMISIONS.
- CONCRETE MIX DESIGN SUBMIT WRITTEN REPORTS OF EACH PROPOSED CONCRETE MIX NOT LESS THAN 15 DAYS PRIOR TO THE START OF PLACEMENT. MIX DESIGNS SHALL INCLUDE WATER CEMENT RATIO, SLUMP AND AIR CONTENT. SUBMITTAL SHALL BE PREPARED IN ACCORDANCE WITH ACI 301-84, CHAPTER 3 EXCEPT NOTED OTHERWISE IN THE PROJECT SPECIFICATIONS.
- CONCRETE REINFORCING STEEL SUBMIT SHOP DRAWINGS FOR FABRICATION, BENDING AND PLACEMENT OF CONCRETE REINFORCEMENT. COMPLY WITH ACI DETAILING MANUAL (SP-66) SHOWING BAR SCHEDULES, STIRRUP SPACING, DIAGRAMS OF BENT BARS, ARRANGEMENT OF CONCRETE REINFORCING. INCLUDE SPECIAL REINFORCMENT REQUIRED AT OPENINGS THROUGH CONCRETE STRUCTURES. INCLUDE ALL ACCESSORIES SPECIFIED / REQUIRED TO SUPPORT REINFORCING.
- MASONRY WALL REINFORCING STEEL SUBMIT SHOP DRAWINGS FOR FABRICATION, BENDING AND PLACEMENT OF MASONRY REINFORCEMENT. COMPLY WITH ACI DETAILING MANUAL (SP-66) SHOWING BAR SCHEDULES, DIAGRAMS OF BENT BARS, BAR LAP SPLICES AND SPACING OF REINFORCING. INCLUDE SPECIAL REINFORCMENT REQUIRED AT OPENINGS, CONTROL JOINTS AND BEAM POCKETS. INCLUDE ALL ACCESSORIES SPECIFIED / REQUIRED TO SUPPORT REINFORCING.
- SUBMIT SHOP DRAWINGS FOR DETAILS, FABRICATION AND ERECTION OF STRUCTURAL STEEL. COMPLY WITH AISC "STEEL CONSTRUCTION MANUAL" AISC "DETAILING FOR STEEL CONSTRUCTION" AND AISC "ENGINEERING FOR STEEL CONSTRUCTION" PUBLICATIONS. CONNECTIONS MUST BE SHOWN ON SHOP DRAWINGS AND INDICATE THE TYPE BOLT USED AND ALL CLIP ANGLES OR PLATES IN EACH CONNECTION. INDICATE ALL TYPES OF WELDS. ELECTRODES REQUIRED FOR EACH CONNECTION.
- 13. SUBMIT TRUSS SHOP DRAWINGS FOR REVIEW PRIOR TO THE FABRICATION PREPARED BY CONTRACTORS SUPPLIER FOR CONFORMANCE WITH DESIGN CONCEPT. SHOP DRAWING SHALL INCLUDE A PLAN LAYOUT SHOWING THE LOCATION OF ALL FLOOR PLANKS, BEAMS AND COLUMNS. INCLUDE DESIGN LOADS AND ALLOWABLE UNIT STRESS. INCLUDE PLANS FOR TEMPORARY ERECTION AND PERMENANT BRACING PER DESIGN CRITERIA LOADING, AND HANDLING AND ERECTION INSTRUCTIONS. ALL PRECAST COMPONENT DESIGNS SHALL BEAR THE NAME, SEAL AND/OR REGISTERED NUMBER OF A LICENSED PROFESSIONAL ENGINEER OF THE STATE IN WHICH THE BUILDING OCCURS.

DEFFERED SUBMITTALS:

THE DESIGNED RESPONSIBILITY OF THE ELEMENTS LISTED BELOW IS BEING DELEGATED TO A SPECIALTY 1. STRUCTURAL ENGINEER HIRED BY THE CONTRACTOR. THE DELEGATED ELEMENTS SHALL BE DESIGNED IN ACCORDANCE WITH THE BUILDING CODEAND SPECIFIC REQUIREMENTS NOTED IN THE CONTRACT DOCUMENTS BY A PROFESSIONAL STRUCTRUAL ENGINEER LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED. SUBMITTALS SHALL BE SIGNED AND SEALED BY THE PROESSIONAL LICENSED STRUCTURAL ENGINEER.

1.1	EXCAVATION SU
1.2	TEMPORARY BF
1.3	STRUCTURAL S
1.4	SEISMIC ANCHO
	PLUMBING SYS
1.5	PRECAST CONC
16	

- SUBMITTALS SHALL INCLUDE SIGNED AND SEALED CALCULATIONS AND INCLUDE FABRICATION DRAWING.
- THE CONTRACTOR'S BID SHALL INCLUDE A LIST OF SPECIALTY STRUCTURAL ENGINEER FOR EACH DELEGATED DESIGN RESPONSIBILITY.

FOUNDATIONS

- CONTINUOUS WALL FOOTINGS HAVE BEEN PROPORTIONED FOR A NEW ALLOWABLE 2. SOIL BEARING PRESSURE OF 1500 PSF. SPREAD FOOTING HAVE BEEN PROPORTIONED FOR A NET ALLOWABLE SOIL BEARING PRESSURE OF 1500 PSF.
- MAY 2, 2024. FURNISHED BY COOK, FLATT & STROBEL ENGINEERS.
- GEOTECHNICAL ENGINEER SHALL BE THE SOLE JUDGE AS TO THE SUITABILITY OF 4 ALL FOUNDATION AND/OR SLAB BEARING STRATA.
- CONTRACTOR SHALL REMOVE AND REPLACE UNACCEPTABLE SOILS IN ACCORDANCE 5.
- BOTTOM OF FOOTINGS MUST EXTEND 1'-6" BELOW PRESENT GRADE OR INTO 6. "ENGINEERED FILL" AND 3'-0" BELOW PROPOSED GRADE UNLESS NOTED OTHERWISE IN GEOTECHNICAL REPORT.
- ENGINEERED FILL. ALL FILL MATERIAL SHALL BE SELECTED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT. EIXSTING ON SITE MATERIALS SUCH AS THE NEAR-SURFACE FILL SOILS (SILTS AND CLAYS) SHOULD NOT BE USED AS ENGINEERED FILL MATERIALS.
- UNLESS NOTED OTHERWISE IN GEOTECHNICAL REPORT, EARTH FILL PLACEMENT SHOULD BE COMPACTED TO A DRY DENSITY OF NOT LESS THAT 95% OF THE STANDARD PROCTOR, AND WELL GRADED GRANULAR FILL SHOULD BE COMPACTED TO DRY DENSITY OF NOT LESS THAN 100% OF THE STANDARD PROCTOR. FILL SHALL BE PLACED IN LAYERS NOT EXCEEDING A LOOSE THICKNESS OF 8 INCHES.
- FOUNDATION WALL OR GRADE BEAMS HAVING EARTH PLACED ON EACH SIDE SHALL BE FILLED SIMULTANEOUSLY TO MAINTAIN A COMMON ELEVATION.
- 10. CONCRETE FOOTINGS PLACED IN EARTH TRNECHED FORMS SHALL BE FREE OF STANDING WATER AND FROST. CONCRETE FOOTINGS SHALL BE PROTECTED FROM FREEZING FOR A PERIOD OF NOT LESS THAN 5 DAYS.

REPRODUCTION OF THIS DRAWING FOR REPRODUCTION OF THIS DRAWING FOR IS PERMITTED, BUT AT THE USERS RISK. REMOVE ALL SEALS, FIRM NAMES, TITLES AND SHALL ASSUME FULL RESPONSIBILIT

4.3.40.00 F IVI EESSIONAL ENGINEERS SEAL AFFIXED TO THIS EED ENGINEER HAS PREPARED OR DIRECTED TH L SHOWN ONLY ON THIS SHEET. OTHER DRAW IBITING THIS SEAL, SHALL NOT BE CONSIDERI IBILITY OF THE UNDERSIGNED. K24-074

CONCRETE REINFORCING STEEL

REVIEW OF SHOP DRAWING IS ONLY FOR CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT AND COMPLIANCE WITH THE INFORMATION GIVEN IN THE CONTRACT DOCUMENTS. THE CONTRACTOR IS RESPONSIBLE FOR DIMENSIONS TO BE CONFIRMED AND CORRELATED AT THE SITE; FOR INFORMATION THAT PERTAINS SOLELY TO THE FABRICATION PROCESSES OR TO THE MEANS, METHODS, TECHNIQUES, SEQUENCES, TEMPORARY SHORING BRACING AND PROCEDURES OF CONSTRUCTION; AND FOR

- UPPORT-BANK STABILIZATION.
- RACING AND SHORING.
- STEEL CONNECTIONS. ORAGE AND SWAY BRACING OF MECHANICAL, ELECTRICAL AND TEM COMPONENTS.
- CRETE PLANKS, CONNECTION HANGERS AND ANCHORAGE.
- 1.6 LADDERS AND THEIR CONNECTIONS AND ANCHORAGES

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW THE GEOTECHNICAL REPORT PRIOR TO BIDDING FOR CONSTRUCTION PROCEDURES REQUIRED DUE TO EXISTING CONDITIONS SUCH AS PLASTIC SOILS, UNACCEPTABLE FILL, ETC.

- SOIL BEARING PRESSURE IS BASED ON THE GEOTECHNICAL REPORT DATED
- WITH THE GEOTECHNICAL REPORT. ALL ORGANIC MATERIAL AND SOILS WHICH "PUMP" AFTER PROOF ROLLING WITH A FULLY LOADED TRUCK SHALL BE REMOVED.

- REINFORCING BARS ARE TO BE DOMESTIC NEW BILLET STEEL CONFORMING TO ASTM A615-GRADE 60 STEEL INCLUDING STIRRUPS AND TIES U.N.O. REINFORCING WHICH IS REQUIRED TO BE WELDED SHALL CONFORM TO ASTM A706. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185
- 2. ALL DETAILING, FABRICATION AND ERECTION OF REINFORCING BARS AND THEIR SUPPORT IN THE FORMS WITH ACCESSORIES MUST FOLLOW THE ACI "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES" (ACI 315-LATEST)
- CONCRETE COVER OVER PRIMARY REINFORCING, TIES AND STIRRUPS SHALL BE AS 3. FOLLOWS:

FOOTING	3"
SLABS ON GRADE	1 1/2"
WALL EXPOSED	2"
WALL NOT EXPOSED	3/4"
BEAMS AND COLUMNS	1 1/2"

ALL BARS INCLUDING TEMPERATURE BARS ARE TO EXTEND WITHIN 3" OF THE OUTER FACES OF THE MEMBER INTO WHICH THEY FRAME.

- WELDED WIRE FABRIC MUST LAP 8" AT SIDES AND 8" AT ENDS AND BE WIRED TOGETHER
- REINFORCING BARS SHALL BE WELDED ONLY WHERE SHOWN ON THE STRUCTURAL DRAWINGS AND WELDS SHALL BE IN ACCORDANCE WITH THE "STRUCTURAL WELDING CODE- REINFORCING STEEL" (AWS D1.4) NO OTHER REINFORCING MAY BE WELDED WITH THE APPROVAL OF THE STRUCTURAL ENGINEER. TACK WELDING OF ANY REINFORCING IS STRICTLY PROHIBITED
- DOWELS IN WALL FOOTINGS TO BE EQUIVALENT IN SIZE AND NUMBER TO VERTICAL 6. BARS.
 - 6.1. ALL HOOKED OR BENT DOWELS MUST BE IN POSITION BEFORE PLACING CONCRETE, PUSHING BARS INTO FRESHLY PLACED CONCRETE IS NOT
 - ACCEPTABLE. ALL STRAIGHT DOWELS CAN BE PUSHED INTO FRESHLY PLACED 6.2. CONCRETE
- 7. PROVIDE THE FOLLOWING ADDITIONAL REINFORCING UNLESS OTHERWISE CALLED FOR ON STRUCTURAL PLANS:
 - 7.1. CORNER BARS AT ALL CORNERS AND INTERSECTIONS OF CONCRETE WALLS AND FOOTINGS TO MATCH HORIZONTAL REINFORCING. WHERE
 - WALL HAS NO OUTSIDE REINFORCING PROVIDE #4 CORNER BARS SPACED HORIZONTALLY AT 1'-0" cc WITH (3)- #3 VERTICAL SUPPORT BARS
 - 7.2. PROVIDE #4 SLAB DOWELS AT 8" CENTERS AT DOORS UNLESS NOTED
 - ALL BARS SHALL LAP PER TABLE BELOW:

TENSION DEVELOPMENT LAP SPLICE LENGTHS FOR UNCOATED BARS								
	LENGTH (in.) PER CONCRETE STRENGTH (psi)							
	4500 psi				4000 psi			
BAR SIZE	TOP	BARS	OTHER BARS		TOP BARS		D BARS 000 psi CASE 1 CASE 2 19" 28" 25" 37" 31" 47" 37" 56"	
	CASE 1	CASE 2	CASE 1	CASE 2	CASE 1	CASE 2	CASE 1	CASE 2
#3	23"	34"	18"	27"	24"	37"	19"	28"
#4	31"	46"	24"	35"	33"	49"	25"	37"
#5	38"	57"	30"	44"	41"	61"	31"	47"
#6	46"	68"	35"	53"	49"	73"	37"	56"

NOTES:

- 1. SPACING REQUIRMENTS: CASE 1 1.1 BEAMS AND COLUMNS - C.C. SPACING AT ≥ 2.0db
- .2 ALL OTHER -C.C. SPACING AT \geq 3.0dk SPACING REQUIRMENTS: CASE 2
- 2.1 BEAMS AND COLUMNS C.C. SPACING AT < 2.0db
- 2.2 ALL OTHER - C.C. SPACING AT < 3.0db TOP HORIZONTAL BARS WITH MORE THAN 12" OF CONCRETE
- CAST BELOW THE BARS.
- TABULATED VALUES ARE BASED ON GRADE 60 REINFORCING
- CAST IN NORMAL WEIGHT CONCRETE. FOOTING BARS SHALL BE LAPPED 48.0db

THE STRUCTURAL ENGINEER SHALL BE NOTIFIED FOR INSPECTION OF REBAR PLACEMENT

CONCRETE

1. STANDARDS

- ACI 318 BUILDING CODE REQUIREMENT FOR REINFORCED CONCRETE 1.1. 1.2. ACI 315 MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED
- CONCRETE STRUCTURES. ACI 347 RECOMMENDED PRACTICE FOR CONCRETE FRAMEWORK
- ACI 304 RECOMMENDED PRACTICE FOR MEASURING, MIXING 1.4 TRANSPORTING AND PLACING CONCRETE
- ACI 309 RECOMMENDED PRACTICE FOR CONSOLIDATION OF CONCRETE 1.5.
- (ACI 309-72) ACI 308 RECOMMENDED PRACTICE FOR CURING CONCRETE 1.6.
- 1.7. ACI 306 RECOMMENDED PRACTICE FOR COLD WEATHER CONCRETING ACI 305 RECOMMENDED PRACTICE FOR HOT WEATHER CONCRETING. 1.8.
- ALL POURED IN PLACE CONCRETE SHALL BE READY- MIXED AND HAULED IN ACCORDANCE

WITH ASTM C9	4.			
LOCATION	28 DAY COMPRESSIVE STRENGTH	SLUMP	ENTRAINED AIR CONTENT	CEMENT ⁽⁴⁾ CONTENT
EXTERIOR SLABS ON GRADE (2)	5000 psi NORMAL WEIGHT 3/4" MAX AGGREGATE	2" TO 4"	6% <u>+</u> 1.0%	6 SACKS W/ C=0.40
LEAN FILL	2500 psi NORMAL WEIGHT 3/4" MAX AGGREGATE	4" TO 6"	5.5% <u>+</u> 1.5%	4.5 SACKS W/ C=0.55
FOOTINGS, WALLS & GRADE BEAMS	4000 psi NORMAL WEIGHT 3/4" MAX AGGREGATE	2" TO 5"	6% <u>+</u> 1.0%	6 SACKS W/ C=0.45
INTERIOR SLABS ON GRADE	4000 psi NORMAL WEIGHT 1 1/2" MAX AGGREGATE	2" TO 4"	(3) 2% MAX	6 SACKS W/ C=0.42
PRECAST PLANK COMPOSITE TOPPING SLAB	5000 psi NORMAL WEIGHT 3/8" MAX AGGREGATE	2" TO 4"	(3) 2% MAX	6.5 SACKS W/ C=0.40

FOOTNOTES:

(1) SLUMPS NOTED ARE BEFORE USE OF PLASTICIZER. MAX SLUMP POST USE OF PLASTICIZER. (2) INCLUDES SIDEWALKS ONLY. SEE CIVIL DRAWINGS FOR PAVING AT CURB DESIGN.

(3) DO NOT ADD AIR ENTRAINMENT TO DESIGN MIX. (4) LIMIT FLY ASH CONTENT TO 25% OF TOTAL CEMENT. REDUCE TO 15% IN COLD WEATHER APPLICATION.

PORTLAND CEMENT SHALL CONFORM TO ASTM C150 TYPE NORMAL WEIGHT AGGREGATE SHALL CONFORM TO ASTM C 33 #67 WATER REDUCING AGENT SHALL CONFORM TO (ASTM C494 TYPE A OR D). AIR RETAINING AGENT SHALL CONFORM TO (ASTM C260).

- ALL INGREDIENTS MUST BE COMPATIBLE WITH EACH OTHER AND ALL OTHER INGREDIENTS IN THE CONCRETE. FINE AGGREGATES SHALL BE CLEAN, HARD, DURABLE AND FREE OF DELETERIOUS SUBSTANCES. COARSE AGGREGATES SHALL BE CLEAN, HARD AND DURABLE WITHOUT FLAT OR ELONGATED PIECES.
- PREPARE TEST CYLINDERS FOR EACH DAY'S POUR OF EACH CONCRETE MIXTURE EXCEEDING 5 CUBIC YARDS, BUT LESS THAN 25 CUBIC YARDS, PLUS ONE SET FOR EACH ADDITIONAL 50 CUBIC YARDS. TEST ONE AT 7 DAYS AND 2 IN 28 DAYS PER ASTM C39. SUBMIT ALL TEST REPORTS TO THE ARCHITECT AND ENGINEER.
- FORMS SHALL BE PLYWOOD IN GOOD CONDITION. APPLY A FORM RELEASE AGENT TO ALL FORMS IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
- REFER TO ARCHITECTURAL DRAWINGS FOR CONCRETE FINISHES AND CONFORM TO THE REQUIREMENTS SPECIFIED. REQUEST SUCH SPECIFICATION FROM THE ARCHITECT/STRUCTURAL ENGINEER.
- UNLESS NOTED OTHERWISE IN PROJECT SPECIFICATIONS FINISHING TOLERANCE SHALL BE WITHIN CLASS B IN ACCORDANCE WITH ACI 301 AND CONSIDERATION SHALL BE GIVEN TO SEQUENCING OF CONCRETE PLACEMENT TO FACILITATE CONTROL OF FINISH ELEVATIONS.
- ALL CONSTRUCTION JOINTS AND POUR STRIPS SHOWN ON THE DRAWINGS SHALL BE INCORPORATED INTO THE STRUCTURE UNLESS THEIR ELIMINATION IS APPROVED BY THE STRUCTURAL ENGINEER.
- TOLERANCE FOR ANCHOR BOLTS SUPPORT ANGLES AND OTHER EMBEDDED ITEMS SHALL BE PER THE ACI CODE OF STANDARD PRACTICE SECTION 7.5
- BASE PLATES, ANCHOR BOLTS, SUPPORT ANGLES AND OTHER EMBEDDED ITEMS EXPOSED 10 TO EARTH OR GRANULAR FILL SHALL BE COVERED WITH A MINIMUM OF 3" OF CONCRETE
- PIPES SLEEVES OR SLOTS SHALL NOT RUN THROUGH CONCRETE UNLESS SIZE AND 11. LOCATION HAVE BEEN SHOWN ON THE STRUCTURAL DRAWINGS OR APPROVED BY THE STRUCTURAL ENGINEER.
- 12. THE ARCHITECTURAL AND MECHANICAL DRAWINGS MUST BE REFERRED TO FOR ALL MECHANICAL FLOOR REQUIREMENTS AND THE VARIOUS TRADES ARE RESPONSIBLE FOR THE PLACING OF SLEEVES, OUTLET BOXES, ANCHORS ETC., THAT MAY BE REQUIRED.
- CONCRETE SHALL BE PLACED IN A TIMELY MANNER TO AVOID THE FORMATION OF COLD 13. JOINTS. CONCRETE WALLS AND COLUMNS SHALL BE VIBRATED.
- CONCRETE WALLS SHALL HAVE CONSTRUCTION JOINTS NOT FURTHER THAN 100'-0" 14. APART
- UNLESS SHOWN OTHERWISE ALL SLAB-ON-GRADE CONSTRUCTION SHALL HAVE CONTROL JOINTS AT APPROX. 12'-0"o.c. IN BOTH DIRECTIONS

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Exp 12-31-25

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used for any part or parts of the project

Revisions:

GENERAL NOTES

Issue Date: 08/06/2024 Job Number: 21-002.07

STRUCTURAL STEEL

STRUCTURAL STEEL SHALL (1.1. AISC "SPECIF ALLOWABLE S
1.2. ASIC CODE O FOLLOWING S CONSTITUTES DESIGN ADEC DEVELOPED I SHOP DRAWI
STRUCTURAL STEEL SHALL (CHANNELS, ANGLES, PLATES

STRUCTURAL TUBE ------STEEL PIPE -----ANCHOR BOLTS -----BOLTS -----WELDING ELECTRODES -----E70XX

CONNECTIONS SHALL BE DESIGNED BY THE FABRICATOR FOR THE MINIMUM OF: ONE-HALF 4. (1/2) THE MAXIMUM UNIFORM LOAD ON THE MEMBER AS DEFINED IN TABLE 3-6, "MAXIMUM TOTAL UNIFORM LOAD" TABLE IN THE 15th EDITION OR 11 KIPS-ASD OR 16 KIPS-LRFD. REACTIONS AS NOTED ON THE DRAWINGS SHALL SUPERSEDE MINIMUM REQUIREMENTS NOTED ABOVE. CONNECTIONS SHALL COMPLY WITH "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS." SEE PLAN FOR BEAM REACTIONS: VERTICAL SHEAR Va (ASD)

AXIAL TENSION/COMPRESSION

BOLTED CON 5.A.	INECTIONS SLIP CRITICAL
5.B.	OVERSIZED AN BEARING -TYP TO ALL OTHER HOLES ARE NO
WELDED CO	NNECTIONS
6.A.	ALL WELDING
6.B.	ELECTRODES TABLE 4.1.1 OF
ALL WELDING QUALIFIED B THE AMERIC	G WILL BE MADE (Y TESTS, AS PRE: AN WELDING SOC
BOLTING IN C STRESS AND CONNECTION	COMBINATION WI WELDS SHALL B NIS DESIGNED.
NO CHANGE CUTS, ETC. S THE SHOP DI	IN SIZE OR POSIT HALL BE MADE U RAWINGS AND RE
DO NOT USE ERRORS IN T	GAS CUTTING TO HE PRIMARY STR

THE FRAME OF THE STEEL SKELETON SHALL BE CARRIED UP TRUE AND PLUMB AND TEMPORARY BOLTING AND BRACING SHALL BE INTRODUCED TO SAFELY CARRY ALL LOADS TO WHICH THE STRUCTURE MAY BE SUBJECTED INCLUDING EQUIPMENT AND THE OPERATION OF THE SAME. INDIVIDUAL COLUMNS MUST BE BRACED BEFORE CONNECTIONS ARE MADE AND BRACING SHALL BE LEFT IN PLACE AS LONG AS MAY BE REQUIRED FOR SAFETY. NO BOLTING OR WELDING SHALL BE DONE UNTIL AS MUCH OF THE STRUCTURE AS WILL BE STIFFENED THEREBY HAS BEEN PROPERLY ALIGNED.

12. NOTED).

11.

- 13.
- 14. BEARING ON CONCRETE AND MASONRY.
- 15.
- 16. OTHERWISE BE IN CONTACT WITH STEEL

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<u>MASONRY</u>

3.

6.

8.

9

10.

11.

14.

NRY	POST INSTALLED	ANCHORS
	DEFINITIONS:	
 1.1. ACI 530 BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES 1.2. NCMA TEK "MANUAL FOR CONCRETE MASONRY DESIGN AND CONSTRUCTION 1.3. BIA TECHNICAL NOTES ON BRICK CONSTRUCTION 	WEDGE ANCHOR	: THREADED STUD ANCHOR WITH AN EXPANSION CONE AND EXPANDING WEDGE TYPE CLIPS.
MASONRY UNITS SHALL COMPLY WITH ASTM C90 AND TESTED PER ASTM C140 MORTAR SHALL COMPLY WITH ASTM C270	UNDERCUT ANCH	IOR: THREADED STUD TYPE ANCHOR THAT PERFORM SELF-UNDERCUTTING. UNDERCUT PORTION OF ANCHOR MUST HAVE A PROJECTED BEARING
GROUT SHALL COMPLY WITH ASTM C476 AND TESTED PER ASTM C1019		AREA 2.5 TIMES THE BOLT DIAMETER.
JOINT REINFORCING SHALL CONFORM TO ASTM A82, GALVANIZED	ADHESIVE ANCH	OR: TWO PART ACRYLIC EPOXY ADHESIVE WITH MIXING NOZZLE. THREADED
GROUTING AND PLACING OF REINFORCING SHALL BE PERFORMED BY MASON CRAFTWORKERS		ANCHOR ROD SHALL MEET ASTM A36. SCREEN TUBE MUST BE USED FOR HOLLOW CMU APPLICATIONS.
WHO HAVE SUCCESSFULLY COMPLETED THE INTERNATIONAL MASONRY INSTITUTE TRAINING COURSE FOR " <u>GROUTING AND REINFORCED MASONRY CONSTRUCTION</u> " OR EQUAL	SCREW ANCHOR	ONE PIECE ANCHOR WITH FIXED HEAD AND THE ANCHOR BODY HAS A SC TYPE THREADED DESIGN.
PRISM STRENGTH (f'm) OF CMU'S SHALL BE 2500 PSI MINIMUM (NORMAL WEIGHT BLOCKS)		
NET COMPRESSIVE STRENGTH OF CONCRETE MASONRY UNITS SHALL BE 3250 PSI (NORMAL WEIGHT BLOCKS GRADE N-1 OR BETTER)	POST INSTALLED THE CONTRACTO POST-INSTALLED	ANCHORS SHALL BE USED WHERE SPECIFIED ON THE CONSTRUCTION DOCUM OR SHALL OBTAIN APPROVAL FROM THE ENGINEER-OF-RECORD PRIOR TO INST ANCHORS IN PLACE OF MISSING OR MISPLACED CAST-IN-PLACE ANCHORS. CA
GROUT CELLS SOLID AT REINFORCING ONLY WITH 3000 PSI CONCRETE GROUT UNLESS OTHERWISE NOTED.	MANUFACTURER ENGINEER-OF-RE	'S WRITTEN INSTRUCTIONS. SUBSTITUTION REQUESTS, FOR PRODUCTS TO THIS CORD ALONG WITH CALCULATIONS THAT ARE PREPARED AND SEALED BY A RISTINGTER. THE CALCULATIONS SHALL DEMONSTRATE THAT THE SUBSTITUTED
MORTAR SHALL BE TYPE "S" FOR ALL REINFORCED MASONRY WALL AND TYPE "N" FOR ALL MASONRY VENEERS.	IS CAPABLE OF A BY THE BUILDING	CHIEVING THE PERTINENT EQUIVALENT PERFORMANCE VALUES (MINIMUM) AS CODE.
USE "LOW- LIFT" METHOD OF CONSTRUCTION WITH VERTICAL BARS LAPPED PER "BAR SPLICE SCHEDULE".	1. INSTALLA INSTALLA	TION OF ANCHORS SHALL FOLLOW THE LATEST INFORMATION REGARDING TO TION SPECIFICATIONS FROM THE MANUFACTURE OF THE PRODUCTS.
MORTAR SHALL BE PLACED AT ALL HEAD JOINTS, FACE SHELLS, AND WEBS ADJACENT TO THE CELLS CONTAINING VERTICAL REINFORCEMENT.	2. POST INS DOCUMEI	TALLED ANCHORS SHALL BE INSTALLED ONLY WHERE SPECIFIED ON THE STRUNTS.
VERTICAL REINFORCEMENT MUST BE POSITIONED IN THE CENTER OF THE CELL USING MASONRY POSITIONING TIES AT 8'-0" cc MAXIMUM UNLESS NOTED ON THE STRUCTURAL DRAWINGS. PLACEMENT OF THE BAR MUST BE KEPT WITHIN 1/2" OF CENTER, IF REINFORCEMENT PLACEMENT	3. INSTALLA ANCHORS	TION OF POST INSTALLED ANCHORS FOR MISSING OR MISPLACED CAST-IN-PLA S SHALL BE APPROVED BY THE ENGINEER OF RECORD.
NEEDS TO EXCEED 1/2" DUE TO PLACEMENT OF THE EMBEDDED ITEMS OF CONDUIT, THE ENGINEER MUST BE NOTIFIED TO APPROVE RESULTING LOCATION.	4. REINFOR POST-INS	CING BARS IN THE CONCRETE STRUCTURE SHALL NOT BE CUT IN ORDER TO IN TALLED ANCHORS, UNLESS APPROVED BY THE STRUCTURAL ENGINEER OF RE
MASONRY SHALL BE LAID IN A RUNNING BOND UNLESS NOTED OTHERWISE.	5. SUBMITTA REPORTS	AL OF ALL PROPOSED PRODUCTS, WITH THE TECHNICAL DATA AND CURRENT IN IS REQUIRED FOR REVIEW AND APPROVAL BY ENGINEER OF RECORD.
OTHERWISE ON DRAWING.	6. ANCHORS INSTALIAT	S SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S PRINT FION INSTRUCTIONS IN CONJUNCTION WITH EDGE DISTANCE, SPACING AND EM
REINFORCED WITH 9 ga HORIZONTAL JOINT REINFORCING AT 16" o.c. AND VERTICAL BARS AS	DEPTHAS	SINDICATED ON THE DRAWINGS.
INDICATED BELOW:	7. CONTRAC	TOR SHALL ARRANGE FOR A MANUFACTURER'S FIELD REPRESENTATIVE TO P
13.1. PROVIDE VERTICAL REINFORCING AT CORNERS OF INTERSECTING WALLS, AT EACH JAMB OF OPENINGS, AND ON EACH SIDE OF CONTROL JOINTS AND EXPANSION JOINTS.	INSTALLA ONLY TRA OF TRAIN	TION TRAINING FOR ALL PRODUCTS TO BE USED, PRIOR TO COMMENCEMENT (AINED INSTALLERS SHALL PERFORM POST-INSTALLED ANCHOR INSTALLATION ING SHALL BE KEPT ON SITE AND BE MADE AVAILABLE TO THE ARCHITECT/ENG
13.2. VERTICAL REINFORCING: #4's @ 48"o.c. @ 6" CMU	RECORD	AS REQUESTED.
#5's @ 48"o.c. @ 8" CMU #6's @ 48"o.c. @ 10" & 12" CMU	8. ADHESIVE	E ANCHORS INSTALLED HORIZONTAL TO VERTICALLY OVERHEAD ORIENTATION
VERTICAL REINFORCING IN MASONRY WALLS SHOWN HERE ON THE DRAWINGS ARE NOT A SUBSTITUTE FOR TEMPORARY BRACING REQUIRED FOR MASONRY WALLS DURING CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR DESIGN AND INSTALLATION OF THE TEMPORARY BRACING AS REQUIRED.	CERTIFIEI SUBMITTE OF INSTA	D THROUGH ACI/CRSI (ACI 318-14 17.8.2.2) PROOF OF CURRENT CERTIFICATION ED TO THE ARCHITECT/ENGINEER OF RECORD FOR APPROVAL PRIOR TO COMM LLATION.
PROVIDE FULL HEIGHT SOLID MASONRY UNDER BEARING ENDS OF ALL STRUCTURAL STEEL	9. ADHESIVE	E ANCHORS MUST BE INSTALLED IN CONCRETE AGED A MINIMUM OF 21 DAYS (A
BEAMS AND LINTELS MINIMUM 8" BEARING ON MASONRY UNO	10. ANCHORA 10.1 CON	AGE APPLICATIONS: CRETE:
PROVIDE 8" MIN. OF SOLID MASONRY UNDER ENDS OF ALL JOISTS BEARING ON MASONRY OR AS OTHERWISE SHOWN ON DRAWINGS.	10.2 GRO 10.3 HOLI	UTED SOLID CONCRETE MASONRY: LOW CONCRETE MASONRY:

MASONRY SHALL BE LAID IN A RUNNING BOND UNLESS NOTED OTHERWISE.

12. PROVIDE CONTROL JOINTS IN ALL MASONRY AT A MAXIMUM OF 20'-0" APART OTHERWISE ON DRAWING.

13. UNLESS NOTED OTHERWISE ALL LOAD BEARING AND NONLOAD BEARING CMI REINFORCED WITH 9 ga HORIZONTAL JOINT REINFORCING AT 16" o.c. AND VER INDICATED BELOW: 13.1. PROVIDE VERTICAL REINFORCING AT CORNERS OF INTERSEC

- #6's @ 48"o.c. @ 10" & 12" CMU VERTICAL REINFORCING IN MASONRY WALLS SHOWN HERE ON THE DRAWING SUBSTITUTE FOR TEMPORARY BRACING REQUIRED FOR MASONRY WALLS DU CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR DESIGN AND INSTALLAT
- PROVIDE FULL HEIGHT SOLID MASONRY UNDER BEARING ENDS OF ALL STRU 15. BEAMS AND LINTELS MINIMUM 8" BEARING ON MASONRY UNO
- 16. PROVIDE 8" MIN. OF SOLID MASONRY UNDER ENDS OF ALL JOISTS BEARING C OTHERWISE SHOWN ON DRAWINGS.
- 17. BLOCK CORES SHALL BE FILLED SOLID AT LOCATIONS OF ANCHOR EXPANSION BOLTS.
- PROVIDE CONTINUOUS BOND BEAMS w/(2)- #4 HORIZONTAL BARS EVERY 10'-0" MAX. VERTICALLY. 18. U.N.O.
- AT MASONRY VENEER WITH CMU BACKUP PROVIDE VENEER ANCHORAGE SPACED AT 16"x24". 19. USE LADDER JOINT REINFORCING AT CMU BACKUP WITH BUILT-IN EYELETS. PLACE ADJUSTABLE PINTEL AT EACH EYELET.

COMPLY WITH THE FOLLOWING: FICATIONS FOR STRUCTURAL STEEL FOR BUILDINGS STRESS DESIGN AND PLASTIC DESIGN

- OF STANDARD PRACTICE" WITH THE DELETION OF THE SENTENCE FROM PARAGRAPH 4.2.1: "THIS APPROVAL S THE OWNER'S ACCEPTANCE OF ALL RESPONSIBILITY FOR THE
- QUACY OF ANY DETAIL CONFIGURATION OF CONNECTIONS BY THE FABRICATOR AS PART OF HIS PREPARATION FOR THESE
- CONFORM TO THE FOLLOWING GRADES: S, ETC. (U.N.O.) ASTM A36
- -- ASTM A992 GR. 50 ----- ASTM A500 GR. B (Fy=46) ---- ASTM A500 GR. B (Fy=42) --- ASTM F1554
- ---- ASTM A325
- 3. GALVANIZED FINISHES: ZINC COATING BY HOT DIPPED PROCESS ASTM A123 3.1. GALVANIZE ALL EXTERIOR LINTELS AND SHELF ANGLES
 - Vu (LRFD) Aa (ASD)
 - Au (LRFD)

CONNECTIONS WITH A325-SC OR A490-SC BOLTS SHALL BE OLTED MOMENT OR BRACING MEMBER CONNECTIONS. ND LONG SLOTTED HOLES ARE PERMITTED E CONNECTION WITH A325-N OR A429-N BOLTS SHALL BE USED R BOLTED CONNECTIONS. OVERSIZED AND LONG-SLOTTED OT PERMITTED.

SHALL BE IN ACCORDANCE WITH THE "STRUCTURAL WELDING AWS D1.1 OF THE AMERICAN WELDING SOCIETY FOR WELDING SHALL COMPLY WITH THE REQUIREMENTS OF THE AWS CODE.

ONLY BY OPERATORS WHO HAVE BEEN PREVIOUSLY SCRIBED IN THE "STANDARD QUALIFICATIONS PROCEDURE" OF CIETY.

TH WELDING SHALL NOT BE CONSIDERED AS SHARING THE BE PROVIDED TO CARRY THE ENTIRE STRESS FOR WHICH THE

TION OF ANY STRUCTURAL ELEMENT NOR HOLES, SLOTS, JNLESS DETAILED AND NOTED AS A PROPOSED CHANGE ON EVIEWED AND ACCEPTED BY THE STRUCTURAL ENGINEER.

ORCHES IN THE FIELD FOR CORRECTING FABRICATION RUCTURAL FRAMING.

ALL COLUMN BASE PLATES SHALL BE SET ON STEEL SHIMS TO TRUE LEVEL LINE. GENERAL CONTRACTOR SHALL RAM A NON-SHRINK GROUT SOLIDLY UNDER ENTIRE BASE PLATE AREA. PROVIDE 1" DEPTH NON-SHRINK GROUT BELOW PLATES. (UNLESS OTHERWISE

PROVIDE FULL HEIGHT SOLID MASONRY UNDER BEARING ENDS OF ALL STRUCTURAL STEEL BEAMS AND LINTELS TO BEAR MINIMUM 8" ON MASONRY.

PROVIDE ANCHOR BOLTS (3/4" x 1'-4") AT BEARING ENDS AT ALL STRUCTURAL STEEL

UNLESS OTHERWISE NOTED ANCHOR BOLTS SHALL EXTEND INTO CONCRETE NOT LESS THAN 9" WHERE POSSIBLE PLUS 4"± HOOK AND SHALL BE HELD AT 2 1/2" MINIMUM FROM OUTSIDE FACE OF CONCRETE. ALL ANCHOR BOLTS SHALL BE HELD 1 1/2" FROM EDGE OF BASE PLATE WHERE POSSIBLE.

ALL STRUCTURAL STEEL MUST BE PROTECTED BY 3" OF CONCRETE WHERE EARTH WOULD

CREW

MENTS. ALLING ARE SHALL EGISTERED PRODUCT REQUIRED

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ROVIDE OF WORK. A RECORD SINEER OF

I TO SUPPORT LLER (AAI) AS SHALL BE MENCEMENT

ACI 318-14 17.8)

10.4 MULTI-WYTHE BRICK MASONRY:

PROVIDE SPECIAL INSPECTION FOR ALL MECHANICAL AND ADHESIVE ANCHORS PER THE APPLICABLE BUILDING CODE AND PER THE CURRENT ICC-ES REPORT (IBC 2015/2018 TABLE 1705.3 NOTE 4)

ACNHOR TESTING:

11.

12.

13.

12.1 MECHANICAL ANCHORS SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ACI 355.2 AND ICC-ES AC193 FOR CRACKED, UNCRACKED AND SEISMIC CONCRETE

RECOGNITION. 12.2 ADHESIVE ANCHORS SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ASTM E 488/ACI 355.4 AND ICC-ES AC308 FOR CRACKED, UNCRACKED AND SEISMIC CONCRETE RECOGNITION.

APPROVED ANCHORS: 13.1 <u>DEWALT</u>

13.1.1 WEDGE ANCHOR: 13.1.3 ADHESIVE ANCHOR: 13.1.3.1 CONCRETE: 13.1.3.2 MASONRY:

POWER-STUD + SD2 (ICC-ES-ESR 2502) 13.1.2 UNDERCUT ANCHOR: CCU+UNDERCUT (ICC-ES-ESR 4810) AC200+ (ICC-ES-ESR 4027) AC100+GOLD (ICC-ES-ESR 3200)

13.2.1 WEDGE ANCHOR: KWIK BOLT-TZ (ICC-ES-ESR 1917)

13.2.3 ADHESIVE ANCHOR:

13.1.4 SCREW ANCHOR:

13.2.3.1 CONCRETE: 13.2.3.2 MASONRY:

13.1.4 SCREW ANCHOR:

13.3 <u>SIMPSON</u>

13.2 <u>HILTI</u>

13.3.2 UNDERCUT ANCHOR: NOT APPLICABLE

13.3.3 ADHESIVE ANCHOR:

13.3.3.1 CONCRETE:

13.3.3.2 MASONRY: 13.3.4 SCREW ANCHOR:

SCREW-BOLT+(ICC-ES-ESR 3889/4042)

13.2.2 UNDERCUT ANCHOR: HDA UNDERCUT (ICC-ES-ESR 1546)

HIT-HY 200 (ICC-ES-ESR 3187) HIT-HY 270 (ICC-ES-ESR 4143/4144) KWIK HUS-ÈZ (ICC-ES-ESR 3027/3056)

13.3.1 WEDGE ANCHOR: STRONG-BOLT 2 (ICC-ES-ESR 3037)

SET-3G (ICC-ES-ESR 4057) SET-XP (ICC-ES-ESR 3265 TITEN HD (ICC-ES-ESR 2713/1056) S α

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Revisions:

GENERAL NOTES

SPECIAL STRUCTURAL INSPECTIONS SPECIAL INSPECTIONS SHALL BE PERFORMED BY A CERTIFIED INSPECTOR APPROVED BY THE ARCHITECT/ENGINEER OF RECORD AND THE BUILDING OFFICIAL. THE SPECIAL INSPECTOR OR AGENCY SHOULD BE UNDER THE RESPONSIBILITY OF A REGISTERED PROFESSIONAL ENGINEER SPECIALIZING IN STRUCTURAL ENGINEERING.

- 2. THE CONTRACTOR IS RESPONSIBLE FOR SCHEDULING AND TIMELY NOTIFICATION OF THE NEED FOR SPECIAL INSPECTION.
- DUTIES OF THE SPECIAL INSPECTOR: 3.
 - a. THE SPECIAL INSPECTOR WILL OBSERVE THE ASSIGNED ITEMS FOR CONFORMANCE WITH THE APPROVED DESIGN DRAWINGS AND SPECIFICATIONS.
 - THE SPECIAL INSPECTOR WILL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL AND THE ENGINEER/ARCHITECT OF RECORD WITHIN 48 b. HOURS AFTER COMPLETING INSPECTIONS.
 - DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF DISCREPANCIES ARE NOT С.
 - CORRECTED, THE DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL AND THE ENGINEER/ARCHITECT. UPON COMPLETION OF THE WORK, THE SPECIAL INSPECTOR SHALL COMPLETE AND SIGN A FINAL REPORT CERTIFYING THAT TO THE BEST OF THE d.
- INSPECTORS KNOWLEDGE THE WORK IS IN CONFORMANCE WITH THE APPROVED PLANS, SPECIFICATIONS AND PROVISION OF THE IBC CODE. 4. INSPECTIONS: REFER TO THE IBC BUILDING CODE FOR THE DEFINITION OF PERIODIC AND CONTINUOUS INSPECTIONS INCLUDING SPECIFIC REQUIREMENTS.
- 5. ALL SPECIAL INSPECTIONS PERFORMED ON THIS PROJECT SHALL COMPLY WITH 2015 IBC SECTIONS 1704 AND 1705 a. SPECIAL INSPECTION DAILY LOGS/REPORTS SHALL BE MAINTAINED ON-SITE BY THE PROJECT SUPERINTENDENT FOR USE AND REFERENCE BY THE
 - LEE'S SUMMIT, MO. INSPECTION STAFF. SUPERINTENDENT SHALL FORWARD ALL INSPECTION REPORTS TO ARCHITECT AND ENGINEER OF RECORD PRIOR TO COMPLETING "CERTIFICATE b. OF SPECIAL INSPECTION" FOR SUBMISSION TO THE LEE'S SUMMIT, MO. INSPECTION STAFF FOR THE FINAL BUILDING INSPECTION.

STRUCTURAL SCHEDULE OF SPECIAL INSPECTIONS - WIND RESISTANCE - STRUCTURAL

VERIFIC	ATION AN TION 170	ID INSPECTION 5.11.1 THROUGH 1705.11.3, UNLESS IF EXCEPTIONS OF SECTION 1704.2.	Extent: <u>C</u> ontinuous <u>P</u> eriodic <u>S</u> ubmittal	REFERENCE STANDARD	IBC REFERENCE	AGENT QUALIFICATION
1.	WIND-R IS REQU AND CO	ESISTING COMPONENTS: PERIODIC SPECIAL INSPECTION JIRED FOR FAASTENING OF THE FOLLOWING SYSTEMS MPONENTS:				
	a.	ROOF COVERING, ROOF DECK AND ROOF FRAMING CONNECTIONS.	Р		IBC 1705.11.3	PE/SE OR EIT
	b.	EXTERIOR WALL COVERING AND WALL CONNECTIONS TO ROOF AND FLOOR DIAPHRAGMS AND FRAMING.	Р		IBC 1705.11.3	PE/SE OR EIT

STRUCTURAL SCHEDULE OF SPECIAL INSPECTIONS - CONCRETE CONSTRUCTION

VERIF IBC SE	VERIFICATION AND INSPECTION IBC SECTION 1705.3		REFERENCE STANDARD	IBC REFERENCE	AGENT QUALIFICATION
1.	INSPECTION OF REINFORCING STEEL, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT	Р	ACI 318: Ch20, 25.2, 25.3, 26.5.1-26.5.3	IBC 1908.4	PE/SE OR EIT
2.	REINFORCING BAR WELDING				
	a. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A 706	Р	ACI 318: 26.5.4		
	b. INSPECT SINGLE-PASS FILLET WELD, MAXIMUM 5/16"	Р	AWS D1.4		AWS-CW1
	c. INSPECT ALL OTHER WELDS.	С			
3.	INSPECT ANCHORS CAST IN CONCRETE.	Р	ACI 318: 17.8.2		PE/SE OR EIT
4.	INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS				
	a. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS.	С	ACI 318: 17.8.2.4		2
	b. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN SECTION 4.1.	Р	ACI 318: 17.8.2		ACI-STT
5.	VERIFY USE OF REQUIRED DESIGN MIX.	Р	ACI 318: Ch19 26.4.3, 26.4.4	1904.1, 1904.2, 1908.2, 1908.3	ACI-CFTT OR ACI-CCI
6.	PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS,AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	с	ASTM C 172 ASTM C 31 ACI 318: 26.4.5, 26.12	IBC 1908.10	ACI-CFTT OR ACI-SST
7.	INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATIONS TECHNIQUES.	С	ACI 318: 26.4.5	IBC 1908.6, 1908.7, 1908.8	ACI-CFTT OR ACI-CCI
8.	VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURES AND TECHNIQUES.	Р	ACI 318: 26.4.7-26.4.9	IBC 1908.9	ACI-CFTT OR ACI-LTT
9.	INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	Р	ACI 318: 26.10.1(b)		

STRUCTURAL SCHEDULE OF SPECIAL INSPECTIONS - SOILS AND FOUNDATION CONSTRUCTION

VERIFICATION AND INSPECTION			EXTENT: <u>C</u> ONTINUOUS	REFERENCE	IBC	AGENT	
IBC SECTION 1705.6; 1705.7; 1705.8; 1705.9 IBC TABLE 1705.6; 1705.7; 1705.8			<u>P</u> ERIODIC <u>S</u> UBMITTAL	STANDARD	REFERENCE	QUALIFICATION	
1.	VERIFY BEARIN	EXISTING SOIL CONDITIONS, FILL PLACEMENT AND LOAD G REQUIREMENTS.					
	a.	VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	Ρ		IBC 1705.6	PE/GE; EI OR ET	
	b.	VERIFY EXCAVATION ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	Р		IBC 1705.6	PE/GE; EI OR ET	
	C.	PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	Ρ		IBC 1705.6	PE/GE; EI OR ET	
	d.	VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	С		IBC 1705.6	PE/GE; EI OR ET	
	е.	PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT THE SITE HAS BEEN PREPARED PROPERI Y	Р		IBC 1705.6	PE/GE; EI OR ET	

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STRUCTURAL SCHEDULE OF SPECIAL INSPECTIONS MASONRY CONSTRUCTION - LEVEL A QUALITY ASSURANCE

ERIFICATION AND INSPECTION	FREQUENCY	REFERENCE FOR CRITE	ERIA
C SECTION 1705.4	REQUIRED	TMS 402/ ACI 530/	TMS 602/ ACI 530.1/
MS 402/ACI 530/ASCE 5 AND TMS 602/ACI 530.1/ASCE 6 TABLE 3 - EVEL A QUALITY ASSURANCE		ASCE 5	ASCE 6
RIOR TO CONSTRUCTION, VERIFY CERTIFICATES OF COMPLIANCE USED MASONRY CONSTRUCTION	Х		ART. 1.5

STRUCTURAL SCHEDULE OF SPECIAL INSPECTIONS

VERIFICATION AND INSPECTION		FREQUEN	СҮ	REFERENCE FOR CRIT	ENCE FOR CRITERIA		
IBC SI	BC SECTION 1705.4		CONTINUOUS	PERIODIC	TMS 402/ ACI 530/	TMS 602/ ACI 530.1/	
TMS 402/ACI 530/ASCE 5 AND TMS 602/ACI 530.1/ASCE 6 TABLE B - LEVEL B QUALITY ASSURANCE 1. VERYIFY COMPLIANCE WITH THE APPROVED SUBMITTALS				ASCE 5	ASCE 6		
1.	VERY	IFY COMPLIANCE WITH THE APPROVED SUBMITTALS		Х		ART. 1.5	
2.	AS MA FOLLO	ASONRY CONSTRUCTION BEGINS, VERIFY THAT THE OWING ARE IN COMPLIANCE:					
	Α.	PROPORTIONS OF SITE-PREPARED MORTAR		Х		ART. 2.1, 2.6 A	
	В.	CONSTRUCTION OF MORTAR		Х		ART. 3.3 B	
	C.	GRADE AND SIZE OF PRESTRESSING TENDONS AND ANCHORAGES		х		ART. 2.4 B, 2.4 H	
	D.	LOCATION OF REINFORCEMENT, CONNECTORS, AND PRESTRESSING TENDONS AND ANCHORAGES		Х		ART. 3.4, 3.6 A	
	E.	PRESTRESSING TECHNIQUE		Х		ART. 3.6 B	
	F.	PROPERTIES OF THIN-BED MORTAR FOR AAC MASONRY	Х	Х		ART. 2.1 C	
3.	PRIOF COMF	R TO GROUTING VERIFY THAT THE FOLLOWING ARE IN PLIANCE:					
	Α.	GROUT SPACE		Х		ART. 3.2 D, 3.2 F	
	В.	GRADE, TYPE, AND SIZE OF REINFORCEMENT AND ANCHOR BOLTS, AND PRESTRESSING TENDONS AND ANCHORAGES		х	SEC. 6.1	ART. 2.4, 3.4	
	C.	PLACEMENT OF REINFORCEMENT, CONNECTORS, AND PRESTRESSING TENDONDS AND ANCHORAGES		Х	SEC. 6.1, 6.2.1, 6.2.6, 6.2.7	ART. 3.2 E, 3.4, 3.6 A	
	D.	PROPORTIONS OF SITE-PREPARED GROUT AND PRESTRESSSING GROUT FOR BONDED TENDONS		Х		ART. 2.6 B, 2.4 G.1.b	
	E.	CONSTRUCTION OF MORTAR JOINTS		Х		ART. 3.3 B	
4.	VERIF	TY DURING CONSTRUCTION					
	Α.	SIZE AND LOCATION OF STRUCTURAL ELEMENTS		Х		ART. 3.3 F	
	В.	TYPE, SIZE, AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION		Х	SEC. 1.2.1(e), 6.1.4.3, 6.2.1		
	C.	WELDING OF REINFORCEMENT	X		SEC. 8.1.6.7.2, 9.3.3.4(c), 11.3.3.4(b)		
	D.	PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40°F (4.4C)) OR HOT WEATHER (TEMPERATURE ABOVE 90F (32.2C))		Х		ART. 1.8 C, 1.8 D	
	E.	APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE	X			ART. 3.6 B	
	F.	PLACEMENT OF GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS IS IN COMPLIANCE	X			ART. 3.5, 3.6 C	
	G.	PLACEMENT OF AAC MASONRY UNITS AND CONSTRUCTION OF THIN-BED MORTAR JOINTS	X	Х		ART. 3.3 B.9, 3.3 F.1.b	
5.	OBSE SPEC	RVE PREPARATION OF GROUT SPECIMENS, MORTAR IMENS, AND/OR PRISMS		Х		ART. 1.4 B.2.a.3, 1.4 B.2.b.3, 1.4 B.2.c.3, 1.4 B 3 14 B 4	

RUCTURAL SCHEDULE OF SPECIAL INSPECTIONS - STRUCTURAL STEEL CONSTRUCTION (WELDING)		
ERIFICATION AND INSPECTION C 1705.2.1 NSI / AISC 360-10 TABLES: N5.4-1, N5.4-2, N5.4-3		
SPECTION TASK PRIOR TO WELDING N5.4-1	QC	QA
ELDINGPROCEDURE SPECIFICATIONS (WPSs) AVAILABLE	Р	Р
ANUFACTGURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE	Р	Р
ATERIAL IDENTIFICATION (TYPE/GRADE)	0	0
ELDER IDENTIFICATION SYSTEM	0	0
T-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY)		
 JOINT PREPARATION DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL) CLEANLINESS (CONDITION OF STEEL SURFACES) TACKING (TACK WELD QUALITY AND LOCATION) BACKING TYPE AND FIT (IF APPLICABLE) 	0	0
ONFIGURATION AND FINISH OF ACCESS HOLES	0	0
T-UP OF FILLET WELDS DIMENSIONS (ALIGNMENT, GAPS AT ROOT) CLEANLINESS (CONDITION OF STEEL SURFACE) TACKING (TACK WELD QUALITY AND LOCATION) 	0	0
HECK WELDING EQUIPMENT	0	-
SPECTION TASK DURING WELDING N5.4-2	-	-
SE OF QUALIFIED WELDERS	0	0
ONTROL AND HANDLING OF WELDING CONSUMABLES PACKAGING EXPOSURE CONTROL	0	0
D WELDING OVER CRACKED TACK WELDS	0	0
VIRONMENTAL CONDITIONS • WIND SPEED WITHIN LIMITS PDECIDATION AND TEMPERATURE	0	0
PS FOLLOWED SETTINGS ON WELDING EQUIPMENT TRAVEL SPEED SELECTED WELDING MATERIALS SHIELDING GAS TYPE/FLOW RATE PREHEAT APPLIED INTERPASS TEMPERATURE MAINTAINED (MIN./MAX.) PROPER POSITION (F, Y, H, OH)	0	0
ELDING TECHNIQUES INTERPASS AND FINAL CLEANING EACH PASS WITHIN PROFILE LIMITATIONS FACH PASS MEETS QUALITY REQUIREMENTS	0	0
SPECTION TASK AFTER WELDING -N5.4-3	-	-
ELDS CLEANED	0	0
ZE. LENGTH AND LOCATION OF WELDS	Р	Р
ELDS MEET VISUAL ACCEPTANCE CRITERIA • CRACK PROHIBITION • WELD/BASE-METAL FUSION • CRATER CROSS SECTION • WELD PROFILES • WELD SIZE • UNDERCUT • POROSITY	Ρ	Ρ
RC STRIKES	Р	Р
AREA	Р	Р
ACKING REMOVED AND WEI D TABS REMOVED (IF REQUIRED)	Р	Р
	Р	Р
	Р	Р

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STRUCTURAL SCHEDULE OF SPECIAL INSPECTIONS - STRUCTURAL STEEL CONSTRUCTION (WELDING)

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CATES THAT ION OF THE OCUMENTS, BY OR THE

PICAL BENDS FOR REINFORCED MASONRY BARS						
- -	'D' DIAMETER E	* EXT				
۲	STIRRUPS & TIES	OTHERS	180 DEG	135 DEG	**90 DEG	
	1 7/8"	2 1/4"	2 1/2"	2 1/2"	4 1/2"	
	2 1/2"	3"	2 1/2"	3"	6"	
	3 1/8"	3 3/4"	2 1/2"	3 3/4"	7 1/2"	
	3 3/4"	4 1/2"	3"	4 1/2"	9"	
	4 3/8"	5 1/4"	3 1/2"	5 1/4"	10 1/2"	
EXT - LENGTH MEASURED FROM POINT OF TANGENCY						

** 90 DEG HOOK NOT ALLOWED FOR SRIRRUPS AND TIES

BOND BEAM BEARING DETAIL

DETAIL

3/4" = 1'-0"

9

S0.3

180 DEGREE HOOK

135 DEGREE HOOK

90 DEGREE HOOK

LINTEL SCHEDULE					
MARK		DESCRIPTION	BEARING DETAIL		
L1a	8" x 16" HIGH CMU BOND BEAM w/ 2) #5's CONT AT TOP/BOTTOM w/ #3 SINGLE LEG STIRBUPS @ 6"o.c				
L1b		8" x 16" HIGH CMU BOND BEAM w/ 2) #5's CONT AT TOP/BOTTOM	9-S0.3		
L2a		10" x 24" HIGH CMU BOND BEAM w/ 2) #5's CONT AT TOP/BOTTOM	9-S0.3		
L2a		10" x 24" HIGH CMU BOND BEAM w/ 2) #5's CONT AT TOP/BOTTOM	9-S0.3		
L3a		W8x21 w/ 5/16" BTM PL	10-S0.3		
L3b		W8x28 w/ 5/16" BTM PL	10-S0.3		
NON-BEARING LINTELS					
SPAN		12" CMU / 8" CMU / 6" CMU	4" CMU		
1'-4" TO 4'-0" @ SCUPPERS		8" HIGH CMU BOND BEAM w/ 2) #5's CONT @ BOTTOM	L3 1/2 x 3 1/2 x 1/4		
4'-1" TO 6'-6"		16" HIGH CMU BOND BEAM w/ 2) #5's CONT @ BOTTOM	L5 x 3 1/2 x 1/4 (LLV)		
6'-7" TO 10'-0"		W8 x 28 w/ 5/16"xBOTTOM PLATE	L7 x 4 x 3/8 (LLV)		
NOTE: 1) SEE ARCH DRAWINGS FOR ANGLE LEG DIMENSIONS ANGLES NOTED IN SCHEDULE ARE MINIMUM REQUIRED					
2) SEE ARCH DRAWINGS FOR MECHANICAL DRAWINGS FOR ADDITIONAL OPENINGS. NON-BEARING LINTELS SHALL APPLY					

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OF M/SO JAMES C. TA KREHER NUMBER SG 8-6-24 FE-25562 SG 8-6-24 FE-25562 SG 8-6-24 FE-25562 FE
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MASONRY TYPICAL DETAILS SO 3

	COLUMN SCHEDULE				
MARK	SIZE	BASE PLATE SIZE (t x B x D)	BASE PLATE TYPE	GROUT BED	ANCHOR BOLTS
C1	HSS 6 x 6 x 3/8	PL. 3/4" x 12" x 1'-0"	TYPE 'A'	1"	4) 3/4"Ø x 9" EMBED - TYPE 'AB1'
C2	HSS 6 x 6 x 5/16	PL. 3/4" x 12" x 1'-0"	TYPE 'A'	2"	4) 3/4"Ø x 9" EMBED - TYPE 'AB1'
C3	HSS 6 x 6 x 5/16	SEE DETAIL 11-S4.0	TYPE 'A'		

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PER AISC 360-16

<u>TYPE "AB-2"</u> ASTM F1554 GRADE 36

BASE PLATE TYPE "A"

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PRE-TENSION REQ'D

FOOT	ING S	SCHED	ULE

MARK	SIZE	LONG REINFORCING	TRANS REINFORCING
F5-34	5'-0" x 5'-0" x 2'-10"	5) #5 x 4'-6"LG @ TOP 5) #5 x 4'-6"LG @ BTM	5) #5 x 4'-6"LG @ TOP 5) #5 x 4'-6"LG @ BTM
F6-34	6'-0" x 6'-0" x 2'-10"	6) #5 x 5'-6"LG @ TOP 6) #5 x 5'-6"LG @ BTM	6) #5 x 5'-6"LG @ TOP 6) #5 x 5'-6"LG @ BTM

WALL FOOTING SCHEDULE

MARK	WIDTH	THICK	LONGITUDINAL REINFORCING	TRANSVERSE REINFORCING
WF24-12	2' - 0"	1' - 0"	2) #5 CONT @ BTM	#5's @ 24"o.c.
WF24-26	2' - 0"	2' - 2"		#3 TIES @ 48"o.c.
WF24-34	2' - 0"	2' - 10"	2) #5 CONT TOP/BTM 2) #5 CONT @ MID	#3 TIES @ 48"o.c.
WF36-12	3' - 0"	1' - 0"	4) #5 CONT @ BTM	#5's @ 24"o.c.
WF36-34	3' - 0"	2' - 10"	3) #5 CONT TOP/BTM 2) #5 CONT @ MID	#3 TIES @ 48"o.c.
WF48-34	4' - 0"	2' - 10"	4) #5 CONT TOP/BTM 2) #5 CONT @ MID	#3 TIES @ 48"o.c. (2 SETS)
WF52-12	4' - 4"	1' - 0"	4) #5 CONT @ BTM	#5's @ 24"o.c.

1/8" = 1'-0" SLAB CONSTRUCTION:

 $\left(\begin{array}{c} \\ \end{array} \right)$

1.

4

5.

WATER STORAGE - 8" CONCRETE SLAB ON GRADE REINFORCE w/ #4's @ 12"o.c. EACH WAY, TOP/BOTT OVER 4" COMPACTED GRANULAR FILL (< 12% FINES)

2

ALL FOOTINGS ARE TO BE CENTERED UNDER WALLS AND/OR COLUMNS. 3.

UNLESS OTHERWISE NOTED. SEE SECTION 1-S0.2.

CONTINUOUS FOOTINGS HAVE BEEN PROPORTIONED FOR A NET ALLOWABLE BEARING PRESSURE OF 1500 PSF. ISOLATED FOOTING HAVE BEEN PROPORTIONED FOR A NET ALLOWABLE BEARING PRESSURE OF 1500 PSF. BEARING PRESSURE SHALL BE VERIFIED BY A GEOTECHNICAL ENGINEER BEFORE FOOTINGS ARE PLACED. CONTRACTOR SHALL REMOVE AND REPLACE UNACCEPTABLE SOILS IN ACCORDANCE WITH THE GEOTECHNICAL REPORT. ALL SOILS WHICH "PUMP" SHALL BE REMOVED.

FIELD VERIFY ALL EXISTING DIMENSIONS, ELEVATION AND CONDITIONS. NOTIFY ARCHTECT/ENGINEER IF 6. ACTUAL EXISTING CONDITIONS CONFLICT WITH THE INFORMATION SHOWN OR IMPLIED ON THE DRAWINGS.

WIDTH

ANCHOR BOLT TYPES

FOUNDATION PLAN

STORE: - 4" CONCRETE SLAB ON GRADE REINFORCED w/ 6x6-W1.4xW1.4 WWF FABRIC OVER MINIMUM 10 MIL VAPOR BARRIER (ASTM E 1745 CLASS A) AND 4" COMPACTED GRANULAR FILL (< 5% FINES). VAPOR BARRIER SHALL BE PLACED BETWEEN THE CONCRETE SLAB AND GRAVEL UNLESS OTHERWISE NOTED. CONTRACTOR SHALL TAKE NECESSARY ACTIONS TO AVOID SLAB CURLING. REFER TO THE PROJECT SPECIFICATION MANUAL FOR REQUIRED PERFORMANCE FOR VAPOR BARRIER.

WASH TUNNEL - 6" CONCRETE SLAB ON GRADE. REINFORCE w/ 6x6-W2.1xW2.1 WWF OVER 4" COMPACTED GRANULAR FILL (< 12% FINES)

ELEVATIONS ARE REFERENCED FROM FINISH FLOOR SLAB ELEVTION OF 100'-0".

SEE ARCHITECTURAL OR SITE DRAWINGS FOR ACTUAL SITE ELEVATIONS.

SLAB CONTROL AND CONSTRUCTION JOINTS MAY BE INTERCHANGED AT CONTRACTOR'S OPTION,

DEPTH WFXX x XX * / TF=XXX'-X"

TOP OF FOOTING REFERENCED FROM FINISH FLOOR EL=100'-0"

TRENCH/STEM WALL FTG

FOUNDATION PLAN

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Job Number: 21-002.07

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SUMI ≉

OTS EES

PRE	T PLAN LOAD	
TC x lbs PER PLAN		
PLANK MK#		LOADING
DL = PL-1 LL = SL =		55 PSF + PLANK WT 100 PSF 20 PSF + DRIFT PER SHEE ⁻
DL = DEAD LOAD LL = LIVE LOAD SL = SNOW LOAD SD = SNOW DRIFT WL = WIND LOAD		NOTES: 1) LOAD COMBINATIONS 2) ALL LOADS SHOWN A 3) WL NOTED IS AN UPL

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LINTEL SCHEDULE						
MARK		DESCRIPTION	BEARING DETAIL			
L1a	8" x 16" HIGH CMU BOND BEAM w/ 2) #5's CONT AT TOP/BOTTOM w/ #3 SINGLE LEG STIRRUPS @ 6"o.c.					
L1b		8" x 16" HIGH CMU BOND BEAM w/ 2) #5's CONT AT TOP/BOTTOM	9-S0.3	1		
L2a		10" x 24" HIGH CMU BOND BEAM w/ 2) #5's CONT AT TOP/BOTTOM	9-S0.3			
L2a		10" x 24" HIGH CMU BOND BEAM w/ 2) #5's CONT AT TOP/BOTTOM	9-S0.3	1		
L3a		W8x21 w/ 5/16" BTM PL	10-S0.3	<u> </u>		
L3b		W8x28 w/ 5/16" BTM PL	10-S0.3	<u> </u>		
NON-BEARING LINTELS						
SPAN		12" CMU / 8" CMU / 6" CMU	4" CMU			
1'-4" TO @ SCUPI	4'-0" PERS	8" HIGH CMU BOND BEAM w/ 2) #5's CONT @ BOTTOM	L3 1/2 x 3 1/2 x 1/4			
4'-1" TO	6'-6"	16" HIGH CMU BOND BEAM w/ 2) #5's CONT @ BOTTOM	L5 x 3 1/2 x 1/4 (LLV)			
6'-7" TO	10'-0"	W8 x 28 w/ 5/16"xBOTTOM PLATE	L7 x 4 x 3/8 (LLV)			
NOTE:	1) SEI ANG	E ARCH DRAWINGS FOR ANGLE LEG DIMEI GLES NOTED IN SCHEDULE ARE MINIMUM	NSIONS REQUIRED			
2) SEE ARCH DRAWINGS FOR MECHANICAL DRAWINGS FOR ADDITIONAL OPENINGS. NON-BEARING LINTELS SHALL APPLY						

	w/ 6x6 W1.4xW1.4 WW HOLLOW CORE PLAN SHALL BE DESIGNED
2.	BOTTOM OF METAL D AND NOTED THUS (BI
3.	COORDINATE FLOOR

- 4.
- FOR CURB ROOF STRUCTURE. 5.
- 6.

MASONRY WALL LEGEND

- FULL HGT NON-BEARING WALL

PARTIAL HGT NON-BEARING

ROOF FRAMING PLAN

ROOF CONSTRUCTION: (UNLESS NOTED OTHERWISE) 3" NW CONCRETE TOPPING SLAB REINFORCED VF OVER PRECAST HOLLOW PLANKS (TOTAL SLAB = 13") INSTALLED AND FABRICATED NKS IN ACCORDANCE WITH PCI SPECIFICATIONS. ADDITIONAL TOPPING SLAB REINFORCING) BY PRECAST SUPPLIER FOR THE LOADS NOTED ON PRECAST PLANK LOAD DIAGRAM.

> DECK ELEVATIONS IS REFERENCED FROM FINISH FLOOR ELEVATION EL = 100'-0" BMD = XXX'-XX'').

R ALL OPENING LOCATIONS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. PRECAST SUPPLIER TO DESIGN AND PROVIDE FRAMING FOR ALL OPENINGS.

ROOF EQUIPMENT CURB SUPPORT AND THEIR ATTACHMENTS SHALL BE DELEGATED DESIGN BY SUPPLIER

FIELD VERIFY ALL EXISTING DIMENSIONS, ELEVATIONS AND CONDITIONS. NOTIFY ARCHTECT/ENGINEER IF ACTUAL EXISTING CONDITIONS CONFLICT WITH THE INFORMATION SHOWN OF IMPLIED ON THE DRAWINGS.

DESIGN ROOF LOAD: 155 PSF (DEAD LOAD = 55 PSF + PLANK WT = 80 PSF + LIVE/SNOW LOAD = 20 PSF).

S D ARCHITEXTURES 8725 Big Bend Boulevard St. Louis, Missouri 63119 phone: 314-961-9500 63 -640 LOTS I I ≰ I 3 OF W LEES SUMMIT, MO € Π

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3 TIMES "N" BOLTS

SEE PLAN

7

