# PROPOSED BUILDING RENOVATIONS FOR BULK CHEMICALS, INC. 72 FEICK INDUSTRIAL DRIVE, UPPER BERN TOWNSHIP, BERKS COUNTY





	ARCHITECTURAL
A-0	COVER SHEET AND 1:30 SITE PLAN
A-1	1/16" DEMOLITION PLANS
A-2	1/16" CODE PLANS
A-3	1/16" REFLECTED CEILING, PHASING AND FLOOF
A-4	1/8" FLOOR PLAN
A-5	1/8" UPPER FLOOR PLAN
A-6	1/8" EXTERIOR ELEVATIONS
A-7	1/4" ENLARGED PLANS AND DETAILS - WORK PL
A-7A	INTERIOR ELEVATIONS
A-8	1/4" ENLARGED PLANS AND DETAILS - STAIRS AN
A-9	INTERIOR SCHEDULES AND DETAILS
A-10	TYPICAL DETAILS
A-11	3/4" WALL SECTIONS
	CIVIL
C-1	SITE DETAILS
	STRUCTURAL
S-1	STRUCTURAL DETAILS
S-2	STRUCTURAL NOTES
	PLUMBING
P-1	1/8" FIRST FLOOR PLAN - PI UMBING
Р-2	1/8" UPPER FLOOR PLAN - PLUMBING
<u>–</u>	

UNDING	DETAILS	α	301	1

H-1	1/8" FIRST FLOOR PLAN - HVAC
H-2	1/8" MEZZANINE PLAN - HVAC
H-3	HVAC SCHEDULES
H-4	HVAC SCHEDULES

PE-1	SITE PLAN - FIRE PROTECTION AND ELECTRICA
E-2	FIRST FLOOR PLAN - LIGHTING
<b>E-</b> 3	FIRST FLOOR PLAN - POWER
Ξ-4	RISER DIAGRAM AND PANEL SCHEDULES
E-5	SYMBOL LEGEND, SPECIFICATIONS AND NOTES

## R FINISH PLANS

## LATFORMS

ND RAMPS

VCT - VINYL COMPOSITE TILE V - VERTICAL THRD - THREADED VIF - VERIFY IN FIELD VCT - VINYL COMPOSITE TILE VTR - VENT TO ROOF W - WIDE WD - WOOD



REVISIONS	E DESCRIPTION	21 FIRE PUMP ROOM ADDED, STORAGE ROOM SIZE INCREASE	21 STORAGE ROOMS REMOVED, OUTSIDE PAD ADDED, CATWALK	MODIFICATIONS	21 VARIOUS CHANGES / ADDITIONS	
	DATE	07 14 2	08.12.2		08.30.2	
		$\blacksquare$	$\triangleleft$		$\bigotimes$	



	** G.C. SHALL COORDINATE DEMOLITION WITH ALL CONTRACTORS ** ** ALL DEMOLITION INDICATED ON DRAWINGS A-7 AND A-8 SHALL BE PERFORMED BY THE G.C. UNLESS OTHERWISE NOTED **
(3A)	REMOVE EXISTING CONCRETE SLAB AS REQUIRED FOR NEW CONSTRUCTION.
$\langle 4A \rangle$	REMOVE EXISTING CONCRETE BLOCK WALL CONSTRUCTION AS REQUIRED FOR NEW CONSTRU
$\langle 5A \rangle$	REMOVE EXISTING HAND AND GUARD RAILINGS.
$\langle 6A \rangle$	REMOVE EXISTING WALLS AND CEILING STRUCTURE
$\langle 7A \rangle$	REMOVE EXISTING METAL WALL PANELS AND WALL CONSTRUCTION AS REQUIRED FOR NEW CO
$\langle 8A \rangle$	REMOVE EXISTING DOOR, FRAME AND ALL ASSOCIATED HARDWARE AND SUPPORTS.
$\langle 8B \rangle$	REMOVE EXISTING WINDOW SYSTEM.
$\langle 8C \rangle$	REMOVE EXISTING WINDOW AND WALL AS REQUIRED FOR NEW DOOR INSTALLATION.
$\langle 9A \rangle$	REMOVE EXISTING METAL LINER PANEL AND SUPPORTS.
(9B)	REMOVE EXISTING GYP BOARD ON PRODUCTION SIDE OF WALL
(12A)	REMOVE EXISTING WINDOW SHADES AND/OR CURTAINS.
22	P.C. DEMO. (REFER TO MEP DEMO. DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFO.)
23	H.C. DEMO. (RREFER TO MEP DEMO. DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFO.)
<u>(26)</u>	E.C. DEMO. (REFER TO MEP DEMO. DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFO.)
(32A)	REMOVE EXISTING CONCRETE RAMP AND SIDEWALK.
(32B)	REMOVE EXISTING CONCRETE STAIR.

DEMOLITION NOTES:	GENERAL DEMOLITION NOTES:
** G.C. SHALL COORDINATE DEMOLITION WITH ALL CONTRACTORS ** ** ALL DEMOLITION INDICATED ON DRAWINGS A-7 AND A-8 SHALL	** G.C. SHALL COORDINATE DEMOLITION WITH ALL CONTRACTORS **
BE PERFORMED BY THE G.C. UNLESS OTHERWISE NOTED **	** ALL DEMOLITION INDICATED ON THIS SHEET SHALL BE PERFORMED BY THE G.C. UNLESS OTHERWISE NOTED **
REMOVE EXISTING CONCRETE SLAB AS REQUIRED FOR NEW CONSTRUCTION.	A) DEMOLITION NOTED IS PROVIDED TO FURNISH AN UNDERSTANDING OF THE SCOPE OF DEMOLITION REQUIRED AND MAY NOT NECESSARILY BE ALL INCLUSIVE OF ALL DEMOLITION REQUIRED FOR THE NEW WORK. ALL DEMOLITION WORK REQUIRED TO ACCOMMODATE NEW CONSTRUCTION SHALL BE INCLUDED AS PART OF THE CONTRACT. CONTRACTOR SHALL REVIEW ALL CONSTRUCTION DOCUMENTS TO UNDERSTAND THE SCOPE OF DEMOLITION REQUIRED FOR NEW WORK. ALL DEMOLITION SHALL BE COORDINATED WITH THE OTHER CONSTRUCTION DOCUMENTS. DEFER TO MED DRAWINGS FOR
REMOVE EXISTING CONCRETE BLOCK WALL CONSTRUCTION AS REQUIRED FOR NEW CONSTRUCTION.	ADDITIONAL MEP DEMOLITION REQUIREMENTS.
REMOVE EXISTING HAND AND GUARD RAILINGS.	B) ALL REMAINING SURFACES SHALL BE PATCHED TO MATCH EXISTING CONDITIONS. ALL REMAINING SURFACES SHALL BE PREPARED AS REQUIRED FOR NEW WORK IN ALL LOCATIONS WHERE DEMOLITION OCCURS. REFER TO SPECIFICATIONS FOR SPECIFIC CUTTING AND PATCHING REQUIREMENTS FOR DEMOLITION WORK.
REMOVE EXISTING WALLS AND CEILING STRUCTURE	C) WHERE EQUIPMENT OR SYSTEMS ARE INDICATED FOR DEMOLITION, ALL PARTS AND ASSEMBLIES OF THE EQUIPMENT
REMOVE EXISTING METAL WALL PANELS AND WALL CONSTRUCTION AS REQUIRED FOR NEW CONSTRUCTION.	AND SYSTEMS SHALL BE REMOVED, INCLUDING BLOCKING, SUPPORTS, HANGERS, ETC. REFER TO MEP DRAWINGS.
	D) CONTRACTORS SHALL FIELD VERIFY ALL EXISTING CONDITIONS TO UNDERSTAND THE SCOPE OF THE WORK PRIOR TO SUBMITTING BIDS.
REMOVE EXISTING DOOR, FRAME AND ALL ASSOCIATED HARDWARE AND SUPPORTS.	
REMOVE EXISTING WINDOW SYSTEM.	
REMOVE EXISTING WINDOW AND WALL AS REQUIRED FOR NEW DOOR INSTALLATION.	
REMOVE EXISTING METAL LINER PANEL AND SUPPORTS.	
REMOVE EXISTING GYP BOARD ON PRODUCTION SIDE OF WALL	
REMOVE EXISTING WINDOW SHADES AND/OR CURTAINS.	
P.C. DEMO. (REFER TO MEP DEMO. DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFO.)	
I.C. DEMO. (RREFER TO MEP DEMO. DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFO.)	





UPPER DEMOLITION PLAN SCALE: 1/16" = 1'-0"



## NOTE:

BUILDING CONTAINMENT AREA (B.C.A.) 1 WILL BE USED TO CONTAIN 20 MINUTES OF FULL FIRE PROTECTION SYSTEM FLOW (MINUS THE 500 GPM HOSE STREAM DEMAND) FOR ANY FIRE EVENT WITHIN THE B.C.A. 1 CONTAINMENT AREA NOTED TO THE RIGHT INCLUDING EACH STORAGE ROOM.

B.C.A. 2 WILL CONTAIN ANY FIRE EVENT WITHIN THE SPACE SHOWN TO THE RIGHT.

THE MAXIMUM WATER DEPTH IN EACH SPACE IS:

B.C.A .1 = 2.50" WAREHOUSE: MAX FLOW = 1332 GPM - 500 GPM = 832 GPM STORAGE ROOMS: MAX FLOW = 1225 GPM - 500 GPM = 725 GPM

B.C.A. 2 = 4.00" MAX FLOW = 1332 GPM - 500 GPM = 832 GPM



FIRE RATED ASSEMBLIES	- BASIS OF DESIG	N
WALL / PENETRATION TYPE	UL #	RATING
GYPSUM BOARD WALL	U465	1 HOUR
	U411	2 HOUR
	U436	3 HOUR
GYPSUM BOARD SHAFT CONSTRUCTION	U415	2 HOUR
MASONRY WALL	U905	2 HOUR
	SIM. U907	3 HOUR
CONCRETE SLAB	D906	2 HOUR
METAL PIPE PENETRATIONS	C-AJ 1064	1 HOUR
	C-AJ 1064	2 HOUR
	F-C-1022	1 AND 2 HOUR
CABLE PENETRATIONS	C-1J 3004	1 HOUR
	C-1J 3036	2 HOUR
	F-C-3017	1 AND 2 HOUR
BUS DUCT PENETRATIONS	C-AJ 8057	2 HOUR
JOINTS	FF-S 0015	1 HOUR
	FF-S 0022	2 HOUR
	HW-D 0016	1 AND 2 HOUR
	HW-D 0017	2 HOUR
	WW-S 0024	2 HOUR
	WW-S 0025	2 HOUR
MISCELLANEOUS PENETRATIONS	C-AJ 8060	1 HOUR
	C-AJ 8057	2 HOUR
PVC PIPE PENETRATIONS (UP TO 8")	F-A 2024	1 AND 2 HOUR
FLOOR / CEILING ASSEMBLIES	L209	1 HOUR
	L525	1 HOUR
	G262	1 HOUR
	L538	2 HOUR

NOTES:

JOINTS AND PENETRATIONS DESIGN BASED ON "FYRE-SIL" BY TREMCO.

ANY DEVIATIONS FROM UL APPROVED METHOD LISTED SHALL MEET OR EXCEED THE PERFORMANCE OF SCHEDULED SYSTEM AND SHALL BE APPROVED IN ADVANCE BY THE ARCHITECT AND THE LOCAL CODE ENFORCEMENT OFFICER.

REFER TO UL FIRE-RESISTANCE DIRECTORY FOR ASSEMBLY METHODS/MATERIALS TO MEET REQUIRED FIRE-RESISTANCE RATING. FOR ANY PENETRATION NOT LISTED IN THE SCHEDULE, THE MINIMUM REQUIREMENTS OF THE TYPICAL UL SYSTEM FOR THAT APPLICATION SHALL BE FURNISHED AND INSTALLED SO THAT NO FIRE-RATED ASSEMBLY IS COMPROMISED.

REFER TO DRAWING A-10 FOR TYPICAL DETAILS.

WHERE DIMENSIONS ARE SHOWN ON THESE PLANS AT THE EXTERIOR WALL TERMINATION POINTS OF FIRE WALLS, IT IS INDICATING THE MINIMUM DISTANCE FROM AN OPENING TO THE TERMINATION OF THE FIRE WALL.

ALL WALLS THAT ARE LABELED AS FIRE RATED ASSEMBLIES SHALL EXTEND FROM THE TOP OF THE FLOOR/CEILING ASSEMBLY BELOW TO THE UNDERSIDE OF THE FLOOR OR ROOF SLAB OR DECK ABOVE AND SHALL BE SECURELY ATTACHED THERETO. THESE WALLS SHALL BE CONTINUOUS THROUGH CONCEALED SPACES SUCH AS THE SPACE ABOVE A SUSPENDED CEILING.

REFER TO 1/8" PLANS FOR FIRE EXTINGUISHER LOCATIONS.

[		
LEGEND		
DESCRIPTION	SYMBOL	
DOOR EGRESS TAG		
ACTUAL EGRESS LOAD — EGRESS CAPACITY ALLOWED BY CODE —		
OCCUPANCY ROOM TAG	RM. NAME	
AREA OF SPACE IN SQUARE FEET — OCCUPANCT CAPACITY ALLOWED BY CODE — DESIGN OCCUPANT CAPACITY —	RM. NO.   SF    CODE OCC.     DESIGN OCC.	
FIRE RATING LINE TYPES		
ONE HOUR RATING — TWO HOUR RATING —		
EGRESS LINE TYPES		
PATH OF EGRESS	(-NOTE 2-)	
NOTE 2: MAXIMUM TRAVEL DISTANCE IN FEET		
AREAS OF REFUGE		
EXIT SEPARATION DISTANCE (REFER TO NOTE 2 BELOW)		
(DDES) DIAGONAL DISTANCE OVERALL SEPARATION — (ESD) EXIT SEPARATION DISTANCE —		
NOTES: 1. EGRESS PATHS SHOWN ARE THE LONGEST FROM EACH SPACE 2. ICC 1015.2.1.2 - WHERE A BUILDING IS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM (THE SEPARATION DISTANCE OF AT LEAST TWO OF THE EXIT DOORS) SHALL NOT BE LESS THAN ONE-THIRD OF THE LENGTH OF THE MAXIMUM OVERALL DIAGONAL DIMENSION OF THE AREA SERVED.		
3. ALL MEANS OF EGRESS, PER FLOOR, ARE TO BE ACCESSIBLE		

APPLICABLE CODES AS OF DATE OF DESIGN CONTRACT					
	CODE DATE				
	INTERNATIONAL BUILDING CODE 2015				
	INTERI INTERNATIONA	NATIONAL FIRE CODE	2015 2015		
INTERN	INTERNATIO ATIONAL ENERGY C	NAL PLUMBING CODE	2015 2015		
INTERNATIONAL ENERGY CONSERVATION CODE 2013 ICC ELECTRICAL CODE 2015					
BC		UII DING RENOVA	TIONS		
INTERNATIONAL BUILI	DING CODE (2009)				
(95)			В Н 2 Н 3		
	(SECTION 602) TYP	E OF CONSTRUCTION	III-B DARTIAL		
	T	OTAL BUILDING AREA	26,326 SF		
Т	OTAL BUILDIN	G AREA CALCULA	ΓΙΟΝ		
		FIRST FLOOR	26,326 SF		
		TOTAL	26,326 SF		
<b></b>					
GENE	KAL KATED W				
		UNE LAYER OF 5/8" TY SIDES	PE X GYPSUM BOARD BOTH		
	2 HOUR	TWO LAYERS OF 5/8"	TYPE X GYPSUM BOARD		
ONCRETE BLOCK	1 HOUR	6" HOLLOW MINIMUM			
	2 HOUR	6" SOLID OR 8" HOLLC	W MINIMUM		
ALTERNATE UL RATED BY THE ARCHITECT, O' COMMENCEMENT OF V	WALL CONSTRUCT WNER, AND LOCAL WORK IN QUESTION	TION METHODS MAY BE AUTHORITIES HAVING J	USED ONLY IF APPROVED URISDICTION PRIOR TO		
REFER TO THE CURRE	NT ICC AND UL FOF	R MATERIAL ASSEMBLY	AND QUALITIES.		
	GENERAL N	OTES - CHAPTER (	3		
TABLE 601 - FIRE-RES					
TYPE III CONSTRUCTION REQUIRES EXTERIOR BEARING WALLS TO BE 2-HOUR RATED. THE EXTERIOR WALLS FOR THIS STRUCTURE ARE NOT LOAD BEARING.					
SECTION 602.3 - TYPE III EXTERIOR WALLS SHALL BE OF NONCOMBUSTIBLE MATERIALS AND INTERIOR BUILDING					
ELEMENTS SHALL BE	OF ANY MATERIAL	PERMITTED BY THIS CO	DE.		
	GENERAL N	OTES - CHAPTER	7		
SECTION 703.6 - MARI	KING AND IDENTIFIC	ATION TIONS SMOKE BARRIER			
PARTITIONS OR ANOTHER WALL REQUIRED TO HAVE PROTECTED OPENINGS OR					
STENCILING. SUCH ID		AND PERMANENTLY IDE			
I. BE LUCATED IN AUGESSIBLE CONCEALED FLOOR, FLOOR-CEILING OR ATTIC SPACES; 2 RE REDEATED AT INTERVALS NOT EXCEEDING 20 EEET (014 MAA) MEASURED					
2. BE REPEATE HORIZONTALLY ALON	ED AT INTERVALS N G THE WALL OR PA	OT EXCEEDING 30 FEET RTITION; AND	(914 MM) MEASURED		
3. INCLUDE LETTERING NOT LESS THAN 0.5 INCH (12.7 MM) IN HEIGHT, NCORPORATING THE SUGGESTED WORDING: "FIRE AND/OR SMOKE BARRIER-PROTECT ALL OPENINGS," OR OTHER WORDING.					
REFER TO SPECIFICATION SECTION 07 84 46 3.4 IDENTIFICATION					
<u>SECTION 707.5 - CONTINUITY</u> FIRE BARRIERS SHALL EXTEND FROM TOP OF FLOOR / CEILING ASSEMBLY BELOW TO THE UNDERSIDE OF FLOOR OR ROOF SHEATHING, SLAB OR DECK ABOVE, AND SECURELY ATTACHED THERETO.					
SECTION 713 - PENETRATIONS PENETRATIONS OF ALL FIRE BARRIERS, FIRE PARTITIONS & HORIZONTAL ASSEMBLIES SHALL MAINTAIN THE INTEGRITY OF THE SEPARATION. REFER TO SPECIFICATIONS.					
	GENERAL N	OTES - CHAPTER S	9		
SECTION 901.6.1 - AU SHALL BE MONITORE	TOMATIC SPRINKLE D BY AND APPROVE	R SYSTEMS ED SUPERVISING STATIC	DN.		
SECTION 901.6.2 - FIR SHALL BE MONITORE	E ALARM SYSTEMS D BY AND APPROVE	ED SUPERVISING STATIC	DN.		
SECTION 903.3.1.1 - N	FPA 13 SPRINKLER	SYSTEMS			
AUTOMATIC SPRINKL WITH NFPA 13, EXCEP	ER SYSTEMS SHALL PT AS PROVIDED IN	L BE FURNISHED AND IN SECTION 903.3.1.1.1.	STALLED IN ACCORDANCE		

SECTION 903.4.1 - MONITORING ALARM, SUPERVISORY AND TROUBLE SIGNALS SHALL BE DISTINCTLY DIFFERENT AND SHALL BE AUTOMATICALLY TRANSMITTED TO AN APPROVED SUPERVISING STATION. SECTION 903.4.2 - ALARMS

APPROVED AUDIBLE DEVICES SHALL BE CONNECTED TO THE SPRINKLER SYSTEM. ACTUATION OF THE SPRINKLER SYSTEM SHALL ACTUATE THE BUILDING FIRE ALARM SYSTEM.

SECTION 904 - ALTERNATIVE AUTOMATIC FIRE-EXTINGUISHING SYSTEMS REFER TO SPECIFICATION AND PLANS FOR LOCATIONS AND REQUIREMENTS FOR ALTERNATE EXTINGUISHING SYSTEMS UTILIZED.



## GENERAL NOTES - CHAPTER 9 (CONTINUED)

SECTION 906.1 - PORTABLE FIRE EXTINGUISHERS PORTABLE FIRE EXTINGUISHERS SHALL BE INSTALLED IN THE FOLLOWING LOCATIONS. 1. IN ALL GROUP A, B, E, F, H, I, M, R-1, R-2, R-4, AND S OCCUPANCIES. 2. IN AREAS WHERE FLAMMABLE OR COMBUSTIBLE LIQUIDS ARE STORED, USED OR DISPENSED. 3. WHERE REQUIRED BY TABLE 906.1.

SECTION 907 - FIRE ALARM AND DETECTION SYSTEMS

SECTION 907.1.2 - FIRE ALARM SHOP DRAWINGS SHOP DRAWING FOR FIRE ALARM SYSTEMS SHALL BE SUBMITTED FOR REVIEW AND APPROVAL PRIOR TO SYSTEM INSTALLATION; REFER TO DRAWINGS AND SPECIFICATION.

## GENERAL NOTES - CHAPTER 10

SECTION 1004.1 - DESIGN OCCUPANT LOAD REFER TO CODE PLAN AND UPPER CODE PLAN ON THIS DRAWING.

TABLE 1004.1.1 - MAXIMUM FLOOR AREA ALLOWANCES PER OCCUPANT UTILIZED FOR CALCULATING OCCUPANT LOAD THROUGHOUT BUILDING. ACCESSORY STORAGE, MECHANICAL EQUIPMENT ROOM - 300 SF / OCCUPANT BUSINESS AREAS - 100 SF GROSS INDUSTRIAL - 100 SF GROSS WAREHOUSE - 500 SF GROSS

SECTION 1005.1 - MINIMUM REQUIRED EGRESS WIDTH TOTAL MEANS OF EGRESS SHALL NOT BE LESS THAN THE TOTAL OCCUPANT LOAD SERVICED BY THE MEANS OF EGRESS MULTIPLIED BY: 0.3" PER OCCUPANT FOR STAIRWAYS 0.2" PER OCCUPANT FOR OTHER EGRESS COMPONENTS

SECTION 1006.1 - ILLUMINATION REQUIRED THE MEANS OF EGRESS, INCLUDING THE EXIT DISCHARGE, SHALL BE ILLUMINATED AT ALL TIMES THE BUILDING SPACE SERVED BY THE MEANS OF EGRESS IS OCCUPIED, AND SUPPLIED WITH EMERGENCY POWER.

SECTION 1007.1 - ACCESSIBLE MEANS OF EGRESS REQUIRED ACCESSIBLE MEANS OF EGRESS ARE INDICATED ON THE OCCUPANCY AND EGRESS PLANS TO MEET THE INTENT OF THE CODE.

<u>SECTION 1007.3 - STAIRWAYS</u> EXIT ACCESS STAIRWAYS SHALL HAVE MIN. 48" CLEAR BETWEEN THE HANDRAILS. REFER TO PLANS. CLEAR HEADROOM SHALL BE NO LESS THAN 80".

## SECTION 1008.1.2 - DOOR SWING DOORS SHALL SWING IN THE DIRECTION OF TRAVEL WHERE SERVING AN OCCUPANT

LOAD OF 50 OR MORE PERSONS. SECTION 1009.4 - STAIR TREADS AND RISERS

MAXIMUM RISER HEIGHT SHALL BE 7", MINIMUM TREAD DEPTH SHALL BE 11" THE GREATEST RISER HEIGHT WITHIN ANY FLIGHT OF STAIRS SHALL NOT EXCEED THE SMALLEST BY MORE THAN 0.375"; EXCEPT ALTERNATING TREAD STAIRWAYS.

<u>SECTION 1010 - RAMPS</u> RAMPS SHALL BE LESS THAN 1:12, SHALL HAVE A RISE LESS THAN 30", SHALL HAVE MIN. 36" CLEAR BETWEEN THE RAILS, SHALL HAVE MIN. 60" LONG LANDINGS AND HANDRAILS SHALL EXTEND ABOVE AND BELOW SLOPED SURFACE 12".

SECTION 1011- EXIT SIGNS APPROVED EXIT SIGNS SHALL BE VISIBLE FROM ANY DIRECTION OF EGRESS TRAVEL, INDICATE THE DIRECTION OF EGRESS TRAVEL, AND NO POINT IN AN EXIT ACCESS CORRIDOR OR PASSAGEWAY IS MORE THAN 100'-0" FROM THE NEAREST VISIBLE SIGN. EXIT SIGNS SHALL BE INTERNALLY OR EXTERNALLY ILLUMINATED FOR MINIMUM OF 90 MIN.

<u>SECTION 1011.3 - TACTILE EXIT SIGNS</u> TACTILE EXIT SIGNS ARE PROVIDED; REFER TO SHEET A-9 FOR SIGN TYPES.

<u>SECTION 1012 - HANDRAILS</u> TOP OF HANDRAILS SHALL BE AT 34" A.F.F., 1-1/2" Ø AND 1-1/2" FROM THE WALL, THEY SHALL BE CONTINUOUS, EXTEND MIN. 12" BEYOND THE TOP AND BOTTOM RISERS AND RETURN TO THE WALL. REFER TO DETAILS IN CONSTRUCTION DOCUMENTS.

<u>SECTION 1013 - GUARDS</u> SHALL BE PROVIDED WHERE FLOOR OR GRADE IS MORE THAN 30" BELOW WITHIN 36" OF THE WALKING SURFACE; EXCEPT AT LOADING DOCKS & PLATFORMS, AS PERMITTED BY THE CODE. GUARDRAILS SHALL BE MIN. 42" A.F.F.

SECTION 1015.1 - EXITS AND EXIT ACCESS DOORWAYS TWO EXITS SHALL BE PROVIDED WHEN THE OCCUPANT LOAD OF A SPACE EXCEEDS 49 PEOPLE. SECTION 1016 - EXIT ACCESS TRAVEL DISTANCE

B' OCCUPANCY WITHOUT SPRINKLER SYSTEM SHALL NOT EXCEED 200'-0" F-1' OCCUPANCY WITH SPRINKLER SYSTEM SHALL NOT EXCEED 250'-0" H-4' OCCUPANCY WITH SPRINKLER SYSTEM SHALL NOT EXCEED 175'-0"

<u>SECTION 1025 - HORIZONTAL EXITS</u> HORIZONTAL EXITS SHALL NOT SERVE AS THE ONLY EXIT FROM A PORTION OF THE BUILDING AND WHERE TWO OR MORE EXITS ARE REQUIRED, NOT MORE THAN ONE-HALF OF THE EXITS SHALL BE HORIZONTAL EXITS.

SECTION 1025.2 - SEPARATION THE SEPARATION BETWEEN BUILDINGS OR FIRE AREAS CONNECTED BY A HORIZONTAL

EXIT SHALL BE PROVIDED BY A FIRE BARRIER WITH A MINIMUM FIRE-RESISTANCE RATING OF 2 HOURS.

EXIT DISCHARGE SHALL BE DIRECTLY TO THE EXTERIOR OF THE BUILDING AND DIRECTLY TO GRADE.

## GENERAL NOTES - CHAPTER 11

SECTION 1101 - GENERAL BUILDING IS DESIGNED TO MEET ACCESSIBILITY REQUIREMENTS FOR ACCESS TO ALL WORK AREAS AND COMMON USE AREAS, PER CHAPTER 11 & ANSI A117.1-2003.

SECTION 1104.1 - SITE ARRIVAL POINTS ACCESSIBLE ROUTES WITHIN THE SITE SHALL BE PROVIDED FROM ACCESSIBLE PARKING.

SECTION 1104.4 - MULTILEVEL BUILDINGS AND FACILITIES AN ACCESSIBLE ROUTE IS NOT REQUIRED TO STORIES AND MEZZANINES THAT HAVE AN AGGREGATE AREA OF NOT MORE THAN 3,000 SF AND ARE LOCATED ABOVE AND BELOW ACCESSIBLE LEVELS.

SECTION 1105 - ACCESSIBLE ENTRANCES AT LEAST 60% OF ALL PUBLIC ENTRANCES SHALL BE ACCESSIBLE.

SECTION 1106 - PARKING AND PASSENGER LOADING FACILITIES WHERE PARKING IS PROVIDED, ACCESSIBLE PARKING SHALL BE PER TABLE 1106.1, 51-75 PARKING SPACES PROVIDED REQUIRE MIN. 3 ACCESSIBLE SPACES. FOR EVERY 6, OR FRACTION OF 6, ACCESSIBLE PARKING SPACES, AT LEAST ONE SHALL BE A VAN-ACCESSIBLE SPACE. ACCESSIBLE PARKING SPACES SHALL BE LOCATED ON THE SHORTEST ACCESSIBLE ROUTE OF TRAVEL TO AN ACCESSIBLE BUILDING ENTRANCE.

<u>SECTION 1109 - COMMON USE FACILITIES</u> TOILET ROOMS AND BATHING FACILITIES SHALL BE ACCESSIBLE. 50% OF DRINKING FOUNTAINS ON EACH FLOOR SHALL BE ACCESSIBLE. 5%, BUT NOT LESS THAN ONE OF EACH TYPE OF LOCKER SHALL BE ACCESSIBLE.

<u>SECTION 1110 - SIGNAGE</u> REQUIRED ACCESSIBLE ELEMENTS SHALL BE IDENTIFIED BY THE INTERNATIONAL SYMBOL OF ACCESSIBILITY; REFER TO SIGN TYPES ON A-9.













	FLOOR TYPE LEGEND	
SYMBOL	DESCRIPTION	
	EPOXY FLOORING W/ 8" COVED BASE	
	EXISTING FLOORING TO REMAIN	
	FLOORING NOTES	
1. FLOORING SHALL BE		

CEILING TYPE LEGEND
DESCRIPTION
EXISTING 2' X 4' AC TILE - REMOVE, SALVAGE AND REINSTALL
EXPOSED STRUCTURE
EXISTING 2' X 4' LIGHT FIXTURE





REFLECTED CEILING PLAN SCALE: 1/16" = 1'-0"







					TANK SCHEDULE					SECON	DARY CONTAINME	NT AREA SCHEDU	LE	
	TANK	CAPACITY (GALLONS)	TANK USE	WEIGHT (TANK/TOTAL)	CONTAINMENT AREA ID	TANK DIMENSIONS	LOAD CELL HEIGHT	DESCRIPTION & TANK SCHED. NOTE REFERENCES	AREA DESIGNATION	S.F.	HEIGHT/DEPTH (INCHES)	CONTAINMENT VOLUME (GAL)	LARGEST TANK VOLUME	CONTAINMENT AREA SCHEDULE NOTES AND REFERENCES
	UTA	6,000	GENERAL PURPOSE		SCA001	102" DIAM, 195" HIGH 210" TOTAL INSTALLED HEIGHT	- 8"	NOTE 5	SCA001 161 40 4,017	4,017	6,000	REMAINING TANK VOLUME WILL SPILL OVER INTO SCA002. TOTAL VOLUME - SCA001 + SCA002 = 6,889 GAL.		
	UTB	1,009	E-CLPS (ONLY)		SCA002	64" DIAM, 72.5" HIGH 100" TOTAL INSTALLED HEIGHT	8.75"	NOTE 4	SCA002	128	36	2,872	1,009	
	UTC	2,854	GENERAL PURPOSE		SCA003	84" DIAM, 119" HIGH 135" TOTAL INSTALLED HEIGHT	8"	NOTES 1,5	SCA003 144		36	3,232	2,854	
IKS	UTD	1,269	GENERAL PURPOSE	 	SCA004	72" DIAM, 72" HIGH 101" TOTAL INSTALLED HEIGHT	- 8"	NOTE 4	SCA004	128	36	2,872	1,269	
SE TAN	UTE	1,998	CHROME PRODUCTS (ONLY)	 	SCA006	81.5" DIAM, 88.5" HIGH 114" TOTAL INSTALLED HEIGHT	- 8"	NOTE 1	SCA005	72	16	718	506	
) Š	UTF	506	GENERAL PURPOSE	 		53" DIAM, 53" HIGH 59" TOTAL INSTALLED HEIGHT	8" SCALE HEIGHT	NOTE 3	SCA006	92	36	2,072	1,998	
	UTG	506	RP9100 / CHROMIC ACID (ONLY)	 		53" DIAM, 53" HIGH 59" TOTAL INSTALLED HEIGHT	8" SCALE HEIGHT	NOTE 3	SCA007	248	16	2,476	2,112	
	UTH	506	REI-CLPS (ONLY)	 	SCA005	53" DIAM, 53" HIGH 59" TOTAL INSTALLED HEIGHT	8" SCALE HEIGHT	NOTE 3						]
	UTI	219	GENERAL PURPOSE	 		41.5" DIAM, 36" HIGH 42" TOTAL INSTALLED HEIGHT	8" SCALE HEIGHT	NOTE 3						
	(ST001)	5,622	WATER DIRECT FROM WELL	1,500	N.A.	110" DIAM, 150.5" HIGH 150.5" TOTAL INSTALLED HEIGHT		NOTE 1						
S	(ST002)	6,617	DEIONIZED WATER	1,600 	N.A.	122" DIAM, 145" HIGH 145" TOTAL INSTALLED HEIGHT		NOTE 1						
E TANI	(ST003)	4,400	PHOSPHORIC ACID 75%	2,700 58,014	DOUBLE WALLED	 								
ORAG	(ST004)	2,763	E-CLPS 2101	600 	DOUBLE WALLED	108" DIAM, 119" HIGH 119" TOTAL INSTALLED HEIGHT		NOTE 1			REFER ENLARC	TO DRAWING A-8 FOR GED PLANS OF RAMPS.		C8X11.5 EA. SIDE
SI	(ST005)	6,650	SODIUM HYDROXIDE 50%	4,400 84,906	DOUBLE WALLED							1000	RAMP DOWN	
	(ST006)	4,400	POTASSIUM HYDROXIDE 45%	2,700 53,240	DOUBLE WALLED									
TER	WW998	2,100	WASTE WATER	 	SCA007	96" DIAM, 67" HIGH 96" TOTAL INSTALLED HEIGHT		NOTE 1				EL. +3.0"		
STE WA	(WW999)	2,112	WASTE WATER		SCA007	85.375" DIAM, 85.25" HIGH 86.75" TOTAL INSTALLED HEIGHT		NOTE 2					∦~ 3 <sup>i</sup> -4" 	<b>/</b> 3'-4" <b>/</b>
MAS														

## TANK SCHEDULE NOTES:

1. G.C. SHALL REMOVE TANK FROM EXISTING BULK CHEMICALS, INC. MOHRSVILLE FACILITY.

2. G.C. SHALL REMOVE TANK FROM EXISTING ABF FACILITY ADJACENT TO BCI STINSON OFFICES.

3. FLOOR SCALE HEIGHT = 8", FLOOR SCALE MAY NEED TO BE RAISED SO THE SCALE CAN BE ACCESSED BY THE FORKLIFTS, THIS IS IN ADDITION TO THE TOTAL INSTALLED HEIGHT

4. LOAD CELLS FOR USE TANKS B AND C ARE 8-3/4" HIGH, THIS IS IN ADDITION TO THE TOTAL INSTALLED HEIGHT

5. LOAD CELLS FOR USE TANK A ARE 8" HIGH, THIS IS IN ADDITION TO THE TOTAL INSTALLED HEIGHT

	WALL TYPE LEGEND										
	EXISTING CONSTRUCTION TO BE DEMOLISHED										
	EXISTING WALL TO REMAIN										
	GYPSUM BOARD WALL										
****	CONCRETE BLOCK WALL										
	2 HOUR GYP. BOARD WALL (UL U336)										
I REFER TO PLANS, WALL SECTIONS, DETAILS, ROOM FINISH SCHEDULES AND SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING WALL CONSTRUCTION AND FINISHES.											



## E-84 BY SHIELD INDUSTRIES OR EQUAL.







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	QTY	MFR	CAT NO.	FINISH	REMARKS				
SET 1		1		-					
HINGES	3	ST	FBB 199 NRP	US32D					
EXIT DEVICE	1	SA	64 8943 ETL	US32D					
REMOVABLE CORE	1	SA	6300	US15					
OH CLOSER	1	SA	351 CPSH	EN					
KICK PLATE	1 EA	RO	K1050 8" 4BE	USD32D					
THRESHOLD	1	PE	2005 AT MSES25SS	AL					
RAIN GUARD	1	PE	346D	AL					
PERIMETER SEALS	1	PE	303 DS TKSP8	AL					
SET 2									
HINGES	3	ST	FBB 168	US26D	DOOR 108 B:				
IOCKSET	1	SA	1015-11	US32D	NO WALL STOP				
OH CLOSER	1	SA	351 P10	FN	NO O.H. CLOSER				
WALL STOP	1	RO	406		SA O.H. STOP 690H 26D				
	1 FA	RO	K1050 8" 4BF	US32D	-				
SILENCERS	3	RO	608	GRFY	-				
			000						
SET 3									
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KICK PLATE	1	RO	K1050 8" 4BE	US32D					
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SET 4									
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I OCKSET	1	SA	1015-11	US32D	REQUIRED BY CODE				
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		RO	K1050 8" 4BF	US32D	_				
SILENCERS	3	RO	608	GREY	_				
AUTO FLUSH BOLT SET	1	MK	FB06M	US26D	_				
COORDINATOR	1	MK	UC125	US26D	_				
SET 5									
HINGES	3	SI	FBB 199	US32D					
EXIT DEVICE	1	SA	12 89 15 X ETL	US32D					
OH CLOSER	2	SA	351 CPS	EN	_				
	1 EA	RO	K1050 8" 4BE	US32D	_				
SILENCERS	3	RO	608	GREY					
SET 6									
HINGES	6	ST	FBB 199 NRP	US32D					
EXIT DEVICE	1	SA	64 8943 ETL	US32D					
REMOVABLE CORE	1	SA	6300	US15					
OH CLOSER	1	SA	351 CPSH	EN					
ASTRAGAL	1	PE	355CP		-				
THRESHOLD	1	PE	2005 AT MSES25SS	AL	-				
RAIN GUARD	1	PE	346D	AL	-				
PERIMETER SEALS	1	PE	303 DS TKSP8	AL	-				
MANUAL FLUSH BOLT SET	1	RO	555	US26D	-				
		1							
DOOR HARDWARE ABBREVIATIO	<u>NS:</u>								
ST STANLEY RO ROCKWOOD									















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



























REVISIONS	DESCRIPTION	FIRE PUMP ROOM ADDED, STORAGE ROOM SI	STORAGE ROOMS REMOVED, OUTSIDE PAD A	MODIFICATIONS	VARIOUS CHANGES / ADDITIONS	
	DATE	07 14 21	08.12.21		08.30.21	
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JOB NO.: 20003.00 JDK DRAWN BY: DATE: 08.30.2021

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CHEMICAL RESIST. COATING	EXISTING SEALED CONC.	SEALED CONCRETE					CHEM. RESIST. FLASHED COVE					EXISTING GYPSUM BOARD	GYPSUM BOARD	EXISTING CMU	CMU	EXISTING MTL LINER PANEL		EPOXY PAINT	PAINT				EXPOSED STRUCTURE	EXISTING GYPSUM BOARD	GYPSUM BOARD		PAINT				EIGHT						
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## - FIBER REINFORCED CONCRETE SLAB VAPOR BARRIER - STONE BASE

- FIBER REINFORCED CONCRETE SLAB - VAPOR BARRIER STONE BASE

![](_page_11_Picture_5.jpeg)

![](_page_11_Picture_6.jpeg)

JOB NO.: 20003.00 DRAWN BY: JDK DATE: 08.30.2021

A-10

![](_page_12_Figure_0.jpeg)

EXISTING OFFICE

![](_page_12_Picture_6.jpeg)

![](_page_12_Picture_7.jpeg)

![](_page_13_Picture_0.jpeg)

![](_page_13_Figure_1.jpeg)

VINYL CLAD BALL CAP (TYP) — 1-5/8" O.D. VINYL CLAD TOP RAIL (TYP) — 4" O.D. VINYL CLAD GATE POSTS (TYP) — 1-5/8" O.D. VINYL CLAD BRACE RAIL (TYP) 1-1/2" O.D. VINYL CLAD GATE FRAME -WITH PANIC HARDWARE

> VINYL CLAD BRACE ROD  $-\!\!/$ PVC PIPE SLEEVE -MINIMUM 14" DIAMETER CONCRETE -FOOTING @ 4" POSTS

![](_page_13_Figure_4.jpeg)

![](_page_13_Figure_5.jpeg)

4 TYPICAL 8' FENCE DETAIL C-1 SCALE: 1/2" = 1'-0"

![](_page_13_Picture_7.jpeg)

![](_page_13_Picture_13.jpeg)

![](_page_13_Picture_14.jpeg)

![](_page_14_Figure_0.jpeg)

![](_page_15_Picture_0.jpeg)

## DESIGN CRITERIA NOTES

THE FOLLOWING CODES AND STANDARDS, INCLUDING ALL SPECIFICATIONS REFERENCED WITHIN, SHALL APPLY TO THE DESIGN, CONSTRUCTION, QUALITY CONTROL AND SAFETY OF ALL WORK PERFORMED ON THE PROJECT. USE THE LATEST EDITIONS UNLESS NOTED OTHERWISE. INTERNATIONAL BUILDING CODE, 2015 EDITION ASCE 7-10 - MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES

## AISC 360-10 - SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS AISC 303-10 - CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES SCI 318-14 - BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE AND MASONRY ACI 530-13 - SPECIFICATION FOR MASONRY STRUCTURES

## ONCRETE MASONRY UNITS NOTES

- THE "BUILDING CODE REQUIREMENT FOR MASONRY STRUCTURES" (ACI 530/ ASCE 5/ TSM 402) AND "SPECIFICATIONS FOR MASONRY STRUCTURES" (ACI 530.1/ ASCE 6/ TSM 602)/ LATEST EDITIONS. ALL MASONRY UNITS SHALL BE ASTM C90, TYPE 1 WITH MINIMUM COMPRESSIVE STRENGTH OF 1,900 PSI AT 28 DAYS ON THE NET AREA OD INDIVIDUAL UNITS. ALL CMU SHALL BE ERECTED IN RUNNING
- BOND, ON FULL MORTAR BEDS, UNLESS OTHERWISE NOTED. . CMU MORTAR SHALL BE PORTLAND CEMENT-LIME CONFORMING TO ASTM C270. USE TYPE "M" FOR MASONRY BELOW GRADE AND USE TYPE "M" OR "S" FOR ALL INTERIOR AND EXTERIOR WALLS ABOVE
- 4. CMU GROUT, POURED OR PUMPED, SHALL MEET ASTM C476, AND HAVE MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3,000 PSI.

GRADE.

- . PROVIDE HOT DIPPED GALVANIZED LADDER TYPE HORIZONTAL JOINT REINFORCEMENT (9 GA.) AT 16" ON CENTER VERTICAL IN ALL MASONRY WALL WITH PREFABRICATED "T" AND CORNER PIECES. LAP SPLICED 6" MIN. PROVIDE AB ADDITIONAL ROW ABOVE AND BELOW OPENINGS AND EXTEND 2'-0" BEYOND JAMBS. STOP HORIZONTAL REINFORCING EACH SIDE OF CONTROL AND EXPANSION JOINTS. HORIZONTAL JOINT REINFORCING SHALL MEET ASTM A82.
- 6. SEE STRUCTURAL DRAWINGS FOR REINFORCING OF LOAD BEARING CMU WALLS. ALL CMU WALLS 8" OR WIDER SHALL HAVE THE FOLLOWING MINIMUM REINFORCING UNLESS NOTED OTHERWISE: INTERIOR WALLS - #4 AT 72" O.C. ; EXTERIOR WALLS - #5 AT 48" O.C.
- . IN ADDITION TO REINFORCING STEEL NOTED ON PLANS, SCHEDULES, AND SECTIONS, PROVIDE VERTICAL BARS WITHIN 8" OF EACH SIDE OF WALL CONTROL JOINTS, WITHIN 8" OF THE ENDS OF WALLS, WITHIN 16" OF EACH SIDE OF OPENINGS, AND AT ALL CORNERS.
- SHALL BE PROVIDED AT THE TOP OF CMU WALLS TO RESIST 5 PSF OF LATERAL PRESSURE AND TO ALLOW FOR VERTICAL DEFLECTION OF THE STRUCTURE ABOVE.
- 9. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF MASONRY CONTROL JOINTS. IF NOT INDICATED ON THE DRAWINGS, CONCRETE MASONRY SHALL HAVE VERTICAL CONTROL JOINTS WITH A MAXIMUM SPACING OF 24'-0" O.C. AT EXTERIOR WALLS BUT NOT LESS THAN 8" FROM BEARING
- PLATES. 10. CONTROL JOINTS SHALL ALSO BE LOCATED AT ABRUPT CHANGES IN WALL HEIGHT, CHANGES IN WALL THICKNESS, WALL CORNERS, INTERSECTIONS OF WALLS WITH COLUMNS, PIERS AND PILASTERS, AND NO CLOSER THAN 2'-0" TO EDGE OF ANY WALL OPENING. REINFORCING BARS IN BOND BEAMS AT ROOF AND FLOOR ELEVATIONS SHALL BE CONTINUOUS ACROSS CONTROL JOINTS. WHERE DISCREPANCIES EXIST BETWEEN THE ARCH'L DRAWINGS AND CONTROL JOINT SPACING REQUIREMENTS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT AND ENGINEER TO RESOLVE
- THE DISCREPANCY. 1. SPECIAL INSPECTION IS REQUIRED FOR CMU LOAD BEARING WALLS. 2. ALL CORES THAT CONTAIN VERTICAL REINFORCING SHALL BE FILLED SOLID WITH GROUT. ALL
- PROGRESSES IS NOT ACCEPTABLE. 13. ALL CMU THAT HAS ONE OR MORE FACES BELOW GRADE SHALL BE GROUTED SOLID.
- 14. THE MINIMUM SPLICE LENGTH FOR ALL VERTICAL BARS IS 48 BAR DIAMETERS UNLESS OTHERWISE NOTED. LAP SPLICES SHALL OCCUR DIRECTLY ABOVE FOOTINGS AND SLABS. NO SPLICES ARE ALLOWED AT MID-HEIGHT WALLS.
- 5. REINFORCING BAR POSITIONERS SHALL BE USED TO HOLD BARS IN THE PROPER LOCATION. POSITIONERS SHALL BE PLACED AT A MAXIMUM VERTICAL SPACING OF 48" O.C. 6. ALL UNITS SHALL BE CONTINUOUSLY PROTECTED FROM EXPOSURE TO RAIN OR OTHER
- SOURCES OF WATER FROM TIME OF CASTING TO FINAL PLACEMENT OF THE WALL. ALL CONCRETE MASONRY UNITS SHALL BE DRY, FREE FROM SOIL, ICE, AND FROST WHEN LAID IN THE WALL.
- 7. LAY NO MASONRY WHEN THE TEMPERATURE OF THE OUTSIDE AIR IS BELOW 40 DEGREES FAHRENHEIT, UNLESS SUITABLE MEANS ARE PROVIDED TO HEAT MATERIALS, PROTECT WORK FROM COLD AND FROST, AND ENSURE THAT THE MORTAR WILL HARDEN WITHOUT FREEZING. COMPLY WITH THE COLD WEATHER REQUIREMENTS CONTAINED IN ACI 530.1. 18. ALL BEAMS SUPPORTING MASONRY, INCLUDING STEEL, PRECAST, AND MASONRY LINTELS ARE
- TO BEAR ON 8" MINIMUM AND ON 3 COURSES GROUTED SOLID, MINIMUM. 9. UNLESS OTHERWISE NOTED, PROVIDE ANCHORAGE OF MASONRY WALLS TO THE STRUCTURE IN THE FOLLOWING MANNER:
  - a. AT STEEL BEAMS ADJUSTABLE MASONRY ANCHORS AT 16" b. AT STEEL COLUMNS - ADJUSTABLE MASONRY ANCHORS AT 16" c. AT CONCRETE ELEMENTS - DOVETAIL ANCHORS AT 16"
- SPACE MASONRY VENEER ANCHORS AT A MAXIMUM OF 32" HORIZONTALLY AND 16" VERTICALLY. PROVIDE ADDITIONAL ANCHORS AROUND OPENINGS LARGER THAN 16" IN EITHER DIMENSION. SPACE ANCHORS AROUND PERIMETER OF OPENINGS AT A MAXIMUM OF 32" O.C. PLACE ANCHORS WITHIN 12" OF OPENINGS.
- . ALL LOOSE ANGLE LINTELS SHALL HAVE A MINIMUM BEARING OF 6" ON MASONRY. WHERE LOOSE ANGLES ARE EXPOSED TO WEATHER, ANGLES SHALL BE GALVANIZED. 2. INSTALL FLASHING AS REQUIRED BY ARCH'L DRAWINGS.

## CONCRETE NOTES:

- 1. NORMAL WEIGHT CONCRETE SHALL BE 4,000 PSI AT 28 DAYS. 2. ALL CONCRETE WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE ACI, AND REINFORCING SHALL
- ETC. AS REQUIRED BY THE OTHER TRADES PRIOR TO INSTALLATION.
- LONGEST SIDE DIMENSION NOT TO EXCEED 30'-0"). PROVIDE CRACK CONTROL JOINTS IN SLABS ON GRADE IN EACH DIRECTION, NOT TO EXCEED 12'-0" O.C.
- 5. UNLESS NOTED OTHERWISE, ALL SLABS ON GRADE SHALL BE 4" THICK REINFORCED WITH 6x6-W2.1/W2.1 W.W.F., PLACED 1" BELOW THE TOP OF THE SLAB.
- CONCRETE PROTECTION FOR REINFORCEMENT SHALL BE AS NOTED BELOW. SEE ACI 318 FOR CONDITIONS NOTED.
- REINF. STEEL IN CONCRETE CAST AGAINST SOIL = 3" REINF. STEEL IN CONCRETE EXPOSED TO SOIL OR WEATHER" #5 BARS AND SMALLER = 1.5"
- #6 BARS AND LARGER = 2" CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:
- SLAB AND WALL REINF. = 0.75" BEAMS AND COLUMNS = 1.5
- 8. ALL CONCRETE EXPOSED TO WEATHER SHALL BE AIR ENTRAINED PER THE SPECIFICATIONS 9. WORKABILITY SHALL NOT BE ACHIEVED THROUGH ADDITION OF WATER. WATER REDUCING ADMIXTURES (PLASTICIZERS) SHALL BE USED TO INCREASE WORKABILITY. ALL CONCRETE SHALL HAVE A 4" SLUMP PRIOR TO ADDITION OF ADMIXTURES AND SHALL HAVE A MAXIMUM SLUMP OF 8" AFTER THE
- 0. HORIZONTAL CONSTRUCTION JOINTS SHALL BE PERMITTED ONLY WHERE SHOWN ON THE

ADDITION OF ADMIXTURES.

- STRUCTURAL DRAWINGS. I. CONTROL JOINTS FOR SLABS ON GRADE SHALL BE SAW-CUT PER THE TYPICAL DETAILS ON THE
- STRUCTURAL DRAWINGS.
- PROPOSED JOINTS IN SLABS AND WALLS FOR APPROVAL.
- ALL CONCRETE PLACED IN HOT WEATHER SHALL CONFORM TO ACI-305-HOT WEATHER CONCRETING.
- AND OTHER EMBEDDED ITEMS AS REQUIRED BY OTHER TRADES.
- 15. GROUT ALL LEVELING AND BEARING PLATES WITH AN APPROVED NON-SHRINK GROUT.
- 7. A THIRD PARTY TESTING LABORATORY SHALL BE EMPLOYED BY THE OWNER FOR EVALUATION AND QUALITY CONTROL OF THE CONCRETE PLACED. FREQUENCY OF CONCRETE TESTING SHALL MEET THE
- REQUIREMENTS OF ACI-318 AT A MINIMUM UNLESS OTHERWISE REQUIRED BY THE LOCAL BUILDING CODE.

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![](_page_15_Picture_46.jpeg)

REVISIONS	DESCRIPTION	21 FIRE PUMP ROOM ADDED, STORAGE ROOM SIZE INCREASE	21 STORAGE ROOMS REMOVED, OUTSIDE PAD ADDED, CATWALK	MODIFICATIONS	21 VARIOUS CHANGES / ADDITIONS	
	DATE	07 14 2	08.12.2		08.30.2	
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![](_page_15_Picture_48.jpeg)

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All DIMENSIONS and EXISTING CONDITIONS shall be CHECKED and VERIFIED by the CONTRACTOR at the SITE.

**J-**Z

JOB NO.:

DATE:

DRAWN BY: