CHASE

RETAIL BANKING CENTER PRYOR RD AND LOWENSTEIN DR 908 NW PRYOR RD LEE'S SUMMIT, MO 64081





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DRAWING SYMBOLS LEGEND GENERAL NOTES	DERAL, STATE AND LOCAL BUILDING CODES, ADA AND OR OTHER HANDICAP ACCESSIBILITY IERAL CONTRACTOR SHALL CONSTRUCT, THE MOST ECONOMICAL I.B.C. CONSTRUCTION TYPE NEW-CONSTRUCTION 'PROTOTYPICAL' PROJECTS, STRUCTION SHALL CONFORM TO I.B.C. 602.1.1 QUIRED TO CONFORM TO THE DETAILS OF A TYPE MEETS THE MINIMUM REQUIREMENTS BASED ON SUCH A BUILDING ACTUALLY CONFORM TO A RS VENDORS REGARDING SCHEDULING AND D TO ILLUSTRATE THE DESIGN AND GENERAL TYPE 'THE FINEST QUALITY OF CONSTRUCTION, IN CONCERNING EXISTING CONDITIONS, ETC., E DRAWINGS HAVE PRECEDENCE OVER SMALL ITRACTOR SHALL VERIFY EXISTENCE AND LOCATION CLUDING SANITARY SEWER, STORM SEWER, PANCIES IN UTILITY LOCATIONS SHALL BE CT. G.C. SHALL BE RESPONSIBLE FOR SET-UP AND ROLECT. DDRESS. IFICATION OF ALL BUILDING DIMENSIONS PRIOR TO IFY THE ARCHITECT OF ANY VARIANCE OR PROCEEDING WITH WORK. IN WALLS FOR SUPPORT OF ALL EQUIPMENT, REGUIRED. VY TYPE OF ENERGY LOSS. PPLICABLE DIMENSIONS OF FIXTURES AND CTIONS AS REQUIRED BY LOCAL JURISDICTIONS CTIONS AND CERTIFICATES OF OCCUPANCY. IT & FILL TO ATTAIN FINISH GRADES AS INDICATED INDICATED OF ALL BUILDING DIREQUIRED IN MEETING, IN BASE BID. IL ALL CODE-REQUIRED EXTERIOR DIRECTIONAL IT & FILL TO ATTAIN FINISH GRADES AS INDICATED INDICATED SHOLD EXTERIOR DIRECTIONAL IT AS EBD. IL ALL CODE-REQUIRED EXTERIOR DIRECTIONAL IT AS EBD. IL ALL CODE-REQUIRED EXTERIOR DIRECTIONAL ISTALL BUILDING EXTERIOR AND SITE BRAND ISTALL BUILDING EXTERIOR AND SITE BRAND ISTALL BUILDING EXTERIOR AND SITE BRAND ISTALL BUILDING CHASE RETAIL MOVIED AND LINDISCAPING. ISTALL BUILDING CHASE RETAIL MOVE-IN. RORER FOR ONE WEEK DURING CHASE RETAIL SURVEY PRIOR TO STARTING CONSTRUCTION RED TO EXISTING GRADES INDICATED ON CIVIL O ARCHITECT AND INDICATE ANY DISCREPANCIES R FACE OF FINISH UNLESS OTHERWISE NOTED. FINISH UNLESS OTHERWISE NOTED.	ABBREVIATIONS A ANNEALED AC ARCONDITIONING ACM ALUMINUM COMPOSITE MATERIAL ACT ACOUSTIC CELLING AFF ABOVE FINISH FLOOR AHJ AUTHORITY HAVING JURISDICTION AHU ARI HANDLING UNIT AL AUTHORITY HAVING JURISDICTION AHJ ARI HANDLING UNIT AL CONTROL JOINT CLING CELLING CMU CONCRETE MASONRY UNIT COL COLUMN CONC CONCRETE CONT CONTROL JOINT CLING CENTRELINE DBL DOUBLE DEFS DIRECT-APPLY EXTERIOR FINISH SYSTEM DF DOWNN DA DIAMETER DIM DOWN DS DOWNSPOUT EA EA ELEC ELEVATION EQ EQUAL EXIST EXINGUISHER FE FIRE EXTINGUISHER FE FIRE EXTINGUISHER CO ELEC FF F	PSF POUNDS PER SQUARE FOOT PT PRESSURE TREATED PTD PAINTED QT QUARRY TILE R RADUS REBAR REINFORCING BAR REF REFERENCE REQD. REQUIRED NO ROUGH OPENING SB SPLASHBLOCK SM SIMILAR SPEC SPECIFICATION SS STAINLESS STEEL STOR STORAGE SUSP SUSPENDED T TEMPERED TYP TYPICAL UNO UNLESS NOTED OTHERWISE VCT VINYL COMPOSITION TILE VERT VERTICAL WD WOOD WP WATERPROOF WRF WELDED WIRE FABRIC WFF WELDED WIRE FABRIC CHASE ABBREVIATIONS CHASE ABBREVIATIONS CASC CUSTOMER CONSULTATION SPACE CCS CUSTOMER ACCESS TABLE CCS CUSTOMER CONSULTATION SPACE CR CASUAL MEETING SPACE LAO LEAD ASSOCIATE OPERATIONS TOC PRIVATE CLIENT ADVISOR PCB PRIVATE CLIENT ADVISOR PCB PRIVATE CLIENT MAINER PCA PRIVATE CLIENT MINESTMENT ADVISOR PCB PRIVATE CLIENT MINESTMENT ADVISOR PCB PRIVATE CLIENT MEETING SPACE LAO LEAD ASSOCIATE OPERATIONS TCC TABLET CHARGING CABINET TP TELEPRESENCE VACUUM AIR TUBE	Image: Second state of the second s

S-1	
	NOT USED
S-2	NOT USED
S-2A	NOT USED
S-3	NOT USED
S-4	DEDICATED CHASE CUSTOMER PARKING (CONFIRM QUANTITY WITH LEASE AGREEMENT)
S-5	EXISTING CONCRETE WALK
S-6	EXISTING CONCRETE CURB
S-8	BICYCLE RACK
S-9	PEDESTRIAN CROSS-WALK- MAINTAIN ACCESSIBLE PATH OF TRAVEL INCLUDING 5% MAX. RUNNING SLOPE AND 2% MAX. CROSS SI OPE
S-10	EXISTING PAVEMENT
S-10A	EXISTING ACCESSIBLE PARKING AND ACCESS AISLE PAVEMENT
S-10B	DRIVE-UP CANOPY / ATM CANOPY DRIVE AISLE PAVING: REINFORCED CONCRETE SLAB- EXTEND TO BYPASS LANE OUTSIDE CURB (NOT BY DEVELOPER)
S-11	EXISTING LANDSCAPING
S-12	REGULATORY SIGNAGE: AS REQUIRED BY LOCAL ORDINANCE AND FURNISHED BY G.C. UNLESS OTHERWISE NOTED: S-124: STOP
	S-12B: DO NOT ENTER
	S-12C: ACCESSIBLE PARKING
S-13	S-12D. ACCESSIBLE PARKING (VAN) DIRECTIONAL SIGNAGE: PROVIDED AND INSTALLED BY
S-14	OWNER'S SIGNAGE VENDOR (NOT BY DEVELOPER)
•	BY OWNER'S SIGNAGE VENDOR (NOT BY DEVELOPER) S-14A: MONUMENT SIGN: SIZE AND POSITION AS DETERMINED BY MARKET (NOT BY DEVELOPER)
	S-14B: PYLON SIGN: SIZE AND POSITION AS DETERMINED BY MARKET (NOT BY DEVELOPER)
S-15	EXISTING PAVEMENT STRIPING
S-16	TACTILE WARNING SURFACE: AS REQUIRED BY AUTHORITIES HAVING JURISDICTION, INSTALLED IN CONFIGURATIONS AS GENERALLY INDICATED IN THE SITE PLAN AND FABRICATED OF THE MATERIALS AS INDICATED IN THE PROJECT MANUAL SPECIFICATIONS
S-17	WHEEL STOP: RECYCLED RUBBER w/ WHITE POLYGONS, MODEL #RF-PWS38 AS MFRD. BY RUBBERFORM OR EQ. PROVIDE WHERE INDICATED ON PLAN AND AT ALL PARKING SPACES NOSING-INTO PEDESTRIAN WALKS
S-18	NOT USED
S-19	DOWNSPOUT: CONNECT AT GRADE THROUGH CAST IRON HUB TO UNDERGROUND STORMATER
S-20	NOT USED
S-22	CURB AND CONDUITS BY DEVELOPER ONLY
S-23	DOWNSPOUT NOZZLE OR CANOPY DOWNSPOUT:
S-24	SPLASH DIRECT TO SPLASH BLOCK OR CONCRETE SLAB ON-GRADE SPLASH BLOCK: MANUFACTURED STONE VENEER REMNANTS SET FLUSH WITH GRADE AT ALL STORMWATER DOWNSPOUT NOZZLES AND
	DRAINS, HOSE BIBS, ETC. WHERE EROSION MAY OTHERWISE OCCUR
S-25	STORMWATER DRAINAGE SYSTEM: REFER TO CIVIL ENGINEERING DRAWINGS
S-26 S-27	LIGHT FIXTURE: REFER TO LIGHT FIXTURE SCHEDULE
	ENGINEERING DRAWINGS- CONCEAL ALL SERVICES BELOW GRADE: GAS METER, WATER METER REMOTE-READ, ELECTRICAL CT CABINET, EMERGENCY ELECTRICAL TRANSFER SWITCH, FIRE SPRINKLER TEST
S-28	VALVE AND TELEPHONE EXISTING POWER TRANSFORMER
S-29	ACCESSIBLE ENTRANCE DIRECTIONAL SIGNAGE: AT
	ARE NOT ACCESSIBILITY COMPLIANT, PROVIDE ACCESSIBILITY-COMPLIANT DIRECTINAL SIGNAGE DIRECTING PEDESTRIANS TO THE ACCESSIBLE ENTRANCE (NONE INDICATED ON SAMPLE SITE PLAN)
S-30	MAIL BOX- PROVIDED ONLY WHERE REQUIRED BY LOCAL U.S.P.S. OFFICE: SALSBURY INDUSTRIES #4350SLV SALSBURY MAIL CHEST WITH PEDESTAL #4385SLV SET IN CAST-IN-PLACE CONCRETE POST BASE AS REQUIRED CONCEALED BELOW LANDSCAPING, OR #4365SLV SURFACE-BOLTED TO EXISTING CONCRETE SLAB
S-31	
S-32 S-33	AUGESSIBILITY CLEARANCE AREA- SURFACE NOT TO EXCEED 2% SLOPE IN ANY DIRECTION AUTOMATIC DOOR OPERATOR PUSH BUTTON(S) AND
S-34	24-HOUR ACCESS CARD READER
S-35	PATH OF TRAVEL REQUIREMENTS RETAINING WALL, BY OTHERS











$\overbrace{1}$	LIFE
A0.2.1	1/4" = 1'-0"

SAFETY COMPLIANCE PLAN



LAVITORY WOMENS

LAVITORY MENS

URINALS

MOP SINK

WATER CLOSETS MENS

DRINKING FOUNTAINS

WATER CLOSETS WOMENS

CHASE				
	BANK - PRIOR RD		JK	
CITY	Lee's Summit			
STATE	МО			
BUILDING CODE	2018 International Buil	ding Code		
	2018 International Plur 2018 International Mer	hoing Code		
ELECTRICAL CODE	2017 National Electrica	l Code		
ENERGY CODE	2018 International Ener	rgy Code		
	2018 International Fuel	Gas Code		
LEASED SF	3,246			
OCCUPANCY CLASSIFICATION	B - BUSINESS			
CONSTRUCTION TYPE	V-B			ų į
SPRINKLERED (YES/NO)	No			
FIRE ALARIVIS (TES/NO)				
00	CUPANT LOAD SCHED	ULE (TABLE 1004.5)		
ROOM NAME	AREA (SF)	LOAD FACTOR	OCCUPANT LOAD	
	3246	150	22	
STORAGE/MECHANICAL/IAN		300		
CIRCULATION AREAS		200	0	OPERATION WWITTED.
UNOCCUPIABLE AREAS		0	0	
Total Gross SF	3246		22	Landon Contraction
				ENV Strand
	EGRESS WIDTH (SEC	TION 1005.3.2)	1	The section of the se
OCCUPANT LOAD	FACTOR	WIDTH REQ'D (INCHES)		
22	0.2	4.40		
FYIT				
MAIN EXIT WIDTH	68	13.60		
EXIT #2 WIDTH	34	6.80		SIGNED BY:
	ER OF EXITS REQUIRE	D (SECTION 1006.2.1.1	.)	OF MISSON
NUMBER OF EXITS REQUIRED	2			JOSHUA W.
	EXIT SEPARATION (ST	ECTION 1007.1 1)		CARRELL
DIAGIONAL DISTANCE OF SPACE	FACTOR	REQUIRED SEPARATION	ACTUAL SEPARATION	
85	1/2	42.5 FT	79'-7''	A-2018040323
				RCUITEC
	RAVEL DISTANCE IN	FEET (SECTION 1017.2)		Contraction of the second of t
200 FT WAX - NON-SPRINKLERED				6/4/2022
CORF	IDORS AND AISLE WI	DTH (SECTION 1020.2)		6/1/2022
MIN AISLE WIDTH 42"				
MIN CORRIDOR WIDTH 44"	CORRIDOR RATING	1 HR		
ADJACENT TENANT MERCANTILE				
SPRINKLERED BUILDING	1 HR			
NON-SPRINKLERED	2 HR			
ADJACENT TENANT ASSEMBLY				
SPRINKLERED BUILDING	1 HR			
NON-SPRINKLERED	2118			
EXIT 1				
				$ \mathbf{T} \lesssim 0$
				EBI JOB #4121000090
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18 INTERNATIONAL PLUMBING	ODE: TABLE 403			Image: Superative state of the second state
18 INTERNATIONAL PLUMBING OCC LOAD FACTO	20DE: TABLE 403 R # OF F	IXTURES REQUIRED # OF	F FIXTURES PROVIDED	EBI JOB #4121000090 ISSUE DATE DESCRIPTION 0 03/02/2022 PERMIT 1 04/11/2022 PERMIT REVISIONS I I<
18 INTERNATIONAL PLUMBING OCC LOAD FACTO 40 OR 41-80-	20DE: TABLE 403 R # OF F .ESS = 1 : 2	IXTURES REQUIRED # OF	F FIXTURES PROVIDED	
18 INTERNATIONAL PLUMBING OCC LOAD FACTO 40 OR 41-80 = 81-120 81-120	CODE: TABLE 403 R # OF F .ESS = 1 :2 = 3	IXTURES REQUIRED # OF	F FIXTURES PROVIDED	EBI JOB #4121000090 ISSUE DATE DESCRIPTION 0 03/02/2022 PERMIT 1 04/11/2022 PERMIT REVISIONS Image: Stress of the s
18 INTERNATIONAL PLUMBING (OCC LOAD FACTO 40 OR 41-80 = 81-120 11	CODE: TABLE 403 R # OF F ESS = 1 2 = 3 0 = 4	IXTURES REQUIRED # OF	F FIXTURES PROVIDED	EBI JOB #4121000090 ISSUE DATE DESCRIPTION 0 03/02/2022 PERMIT 1 04/11/2022 PERMIT REVISIONS
18 INTERNATIONAL PLUMBING (OCC LOAD FACTO 40 OR 41-80 = 81-120 11 121-16 25 OR	CODE: TABLE 403 R # OF F .ESS = 1 :2 = 3 0=4 .ESS = 1 :2	IXTURES REQUIRED # OF	F FIXTURES PROVIDED	EBI JOB #4121000090 ISSUE DATE DESCRIPTION 0 03/02/2022 PERMIT 1 04/11/2022 PERMIT REVISIONS Image: Stress of the s
18 INTERNATIONAL PLUMBING (OCC LOAD FACTO 40 OR 41-80 = 81-120 11 121-16 25 OR 26-50 = 51 100	CODE: TABLE 403 R # OF F .ESS = 1 :2 = 3	IXTURES REQUIRED # OF	F FIXTURES PROVIDED	EBI JOB #4121000090 ISSUE DATE DESCRIPTION 0 03/02/2022 PERMIT 1 04/11/2022 PERMIT REVISIONS 1 04/11/2022 PERMIT REVISION 20.4 PRYOR & LOWENSTEIN PROTOTYPE VERSION 20.4 EXAMPLE CONTENTS
18 INTERNATIONAL PLUMBING OCC LOAD FACTO 40 OR 41-80 = 81-120 11 121-16 25 OR 26-50 = 51-100 11 101-15	CODE: TABLE 403 R # OF F ESS = 1 :2 = 3 0=4 .ESS = 1 :2 = 3 0=4 .ess = 1 :2 = 3 0=4	IXTURES REQUIRED # OF	F FIXTURES PROVIDED	EBI JOB #4121000090 ISSUE DATE DESCRIPTION 0 03/02/2022 PERMIT 1 04/11/2022 PERMIT REVISIONS Image: Chase () Image: Chase () PRYOR & LOWENSTEIN PROTOTYPE VERSION 20.4
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18 INTERNATIONAL PLUMBING (OCC LOAD FACTO 40 OR 41-80 = 81-120 11 121-16 25 OR 26-50 = 51-100 11 101-15 40 OR 41-80 = 81-120 11 121-16 40 OR 11 121-16 11 121-16 11 121-16 11 121-16 11 121-16 11 121-16 11 121-16 11 121-16 11 121-16 11 121-16 11 121-16	CODE: TABLE 403 R # OF F ESS = 1 :2 = 3 0 = 4 .ESS = 1 :2 = 3 0 = 4 .ESS = 1 :2 = 3 0 = 4 .ESS = 1 :2 = 3 0 = 4 .ESS = 1 :2 = 3 0 = 4 .ESS = 1 :2 = 3 0 = 4 .ESS = 1 :2 = 3 0 = 4	IXTURES REQUIRED # OF	F FIXTURES PROVIDED	EBI JOB #4121000090 ISSUE DATE DESCRIPTION 0 03/02/2022 PERMIT 1 04/11/2022 PERMIT REVISIONS 1 02/04/2022 PERMIT REVISION 20.4
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- ANCHOR BOLTS BY G.C. PER

"SIGNATURE" CANOPY SHOP DWGS.

- GASKETED H.D.G. STEEL PLATE VOID

- FUTURE "SIGNATURE " CANOPY

POST AND BASE PLATE

COVER

00

CONCRETE VOID

REFER TO "SIGNATURE" CANOPY SHOP DWGS.

CONCRETE SLAB -

H.D.G. STEEL PIPE CAP SEALED TO

H.D.G. SCH. 40 STEEL PIPE WITH BOTTOM

PLUGGED TO PREVENT CONCRETE FILL -

ELEC., DATA AND SECURITY CONDUITS IN

SLAB - TERMINATE WITHIN SLAB VOID

"SIGNATURE" CANOPY SHOP DRAWING

AND CAP- COORD. POSITION WITH

EXISTING CONCRETE CANOPY PIER

INTEGRAL WITH ISLAND -----









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A0.4







		FLOOR PLAN NOTES		
	A-1	STRUCTURAL COLUMN: COORDINATE WITH STRUCTURAL ENGINEERING		
	A-2	DRAWINGS ELECTRICAL PANELS:	-	
	_	LOCKING ENCLOSURES FOR ELECTRICAL MAIN SERVICE AND DISTRIBUTION		
	A-3	ROOF ACCESS LADDER & SCUTTLE: REFER TO A1.3 FOR DETAILS		
	A-4	SOFFIT / BULKHEAD ABOVE: REFER TO REFLECTED CEILING PLANS SECTIONS		
		DETAILS AND INTERIOR ELEVATIONS. PROVIDE DEFLECTION TRACK AT UNDERSIDE OF ROOF /		
		FLOOR STRUCTURE ABOVE TO ALLOW BULKHEAD TO REST ON DEMOUNTABLE PARTITION SYSTEM		
	A-5	BELOW. ENTRANCE CANOPY:	D	ANY ANY
		SHOP FABRICATED PRE-FINISHED CUSTOM ALUMINUM CANOPY UNIT WITH INTEGRAL	2	13 19.cot 19.cot 10.oct 10.oct 10.oct 10.oct 10.cot 10.cot 10.cot 10.cot 10.cot
		ELECTRICAL AND DRAINAGE SYSTEMS FASTENDED TO BUILDING STRUCTURE- REFER TO	÷	C. 018C Isultir It of envi se and FC CONSTRUE
	A-6	CONCRETE STOOP:	5	S, IN h, MA bicor bicor stread
		ACCESSIBILITY-COMPLIANT CONTINUOUS PAVING TO PUBLIC R.O.W. REQD. FROM ALL EXITS	S	INES ngtor ww.e ww.e usrreo
	A-7	(NOT USED)		BUSI Burlin DO w HE PROPEI HE TITLE C REPARED LUSE WITH PROPEI
3'-0"	A-8	STOREFRONT GLAZING SYSTEM INTERIOR PARTITION- REFER TO INTERIOR ELEVATIONS		/IRO reet 3-250 3-20 3-250 3
	A-9	DEMOLINTABLE PARTITION SYSTEM WITH		EN B Sti 1) 27 1) 27 10 21 10 27 10 21 10 21 10 10 10 10 10 10 10 10 10 10 10 10 10
		INTEGRAL DOORS AND POWER, DATA AND SECURITY CONDUIT SYSTEMS, ANCHORED TO		21 21: (78 s and spe for the for the for the for the obusines
	A-10	BUILDING WALLS AND FLOOR EXIT ALARM POWER SUPPLY	KEPA	TE PRAWING: THEY ARE THE PROJE
	-	INSTALLED ABOVE FINISH CEILING OVER ALARMED EGRESS DOOR- REFER TO DETAIL 2/F3.		
	A-11		SIGNED BY:	
		REFER TO EXTERIOR ELEVATIONS, SITE PLAN, AND ELECTRICAL AND PLUMBING DRAWINGS	É	OF MISS
مة م	A-12	PROVIDE FIRE-RATED BLOCKING BETWEEN STUDS		JOSHUA W.
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	PLAN NOTES	
A-1	FURNITURE: REFER TO FURNITURE SCHEDULE- COORD. ELEC., DATA AND SECURITY CONNECTIONS AND	
A-2	TERMINATIONS FIRE EXTINGUISHER AND CABINET: PROVIDE THE MINIMUM NUMBER AS REQUIRED AND COORDINATE LOCATIONS WITH CODF	
	REQUIREMENTS AND ADJACENT ACCESSIBILITY CLEARANCES	
A-3	WALL-MOUNT FIRE EXTINGUISHER CARBON DIOXIDE ONLY / WATER OR DRY CHEMICAL TYPES NOT PERMITTED, CLASS C OR B-C, 5LB. OR SMALLER, SET WALL BRACKET TO KEEP HANDLE , 48" AFF	
A-4	CUSTOM SHOP-FABRICATED BUILT-IN MILLWORK: REFER TO INTERIOR ELEVATIONS- SUBMIT SHOP DRAWINGS AND FINISH SAMPLES TO ARCHITECT FOR APPROVAL	OF ANY INT INT INT INT INT INT INT INT INT INT
A-5	ADJUSTABLE SHELVES: REFER TO INTERIOR ELEVATIONS- PROVIDE BLOCKING IN WALL AS REQUIRED	C. C. O1803 Isulting.c
A-6	EQUIPMENT / APPLIANCE: REFER TO EQUIPMENT INSTALLATION MANUAL- COORDINATE WITH EQUIPMENT INSTALLER-	ESS, IN ton, MA v.ebicon v.ebicon v.ebicon
	PROVIDE ELECTRICAL, DATA AND SECURITY ROUGH-IN WORK AS REQUIRED- FRAME WALL OPENING AND PREPARE FLOOR SUBSTRATE AS REQUIRED. PROVIDE BLOCKING IN WALL AS	O BUSIN O BUSIN 500 www 500 www et THE PROPERTY A CLET A CLET
A-7	REQUIRED AUDIO/VIDEO EQUIPMENT:	
A-8	REFER TO INTERIOR ELEVATIONS CEILING LIGHT FIXTURE COVE- REFER TO	ED BY ECT BY 21 B 21 B 21 B 21 B 21 B 21 B 21 B 21 B
Δ_9	REFLECTED CEILING PLAN	
A-9	REFER TO DETAIL 1/A3.3.1	
		BILLING CHITECTORY NUMBER A-2018040323 CHITECTORY A-20180403 A-20180403 A-2018040 A-
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		FURNITURE AND FLOOR FINISH PLAN 02/04/2022
		SHEET
		A1.1.2















R-1	LOW-SLOPE ROOFING: THERMOPLASTIC SHEET MEMBRANE ROOFING INSTALLED OVER TAPERED INSULATION AS REQUIRED TO FORM RIDGES, VALLEYS, CRICKETS AND SADDLES AS REQUIRED TO ACHIEVE MINIMUM 1/4" PER FOOT PITCH OR MANUFACTURER'S MINIMUM PITCH REQUIREMENTS FOR THE APPLICATION,	-
R-2	WHICHEVER IS GREATER- FORM SLOPES TO ELIMINATE THE POSSIBILITY OF PONDING; REFER TO WALL SECTIONS AND CONSTRUCTION TYPES ROOFING TRAFFIC PADS: SURFACE-ADHERED TEXTURED WALKWAY MATERIAL PER ROOFING	-
R-3	MANUFACTURER SPECIFICATIONS TO ALL MECHANICAL EQUIPMENT PIPE PENETRATION: PRE-FABRICATED WATER-TIGHT SURFACE-ADHERED ROOFING PORTAL	-
R-4	COMPATIBLE WITH ROOFING MATERIAL ATM CANOPY: SHOP FABRICATED PRE-FINISHED CUSTOM ALUMINUM CANOPY UNIT WITH INTEGRAL ELECTRICAL AND DRAINAGE SYSTEMS FASTENDED TO BUILDING STRUCTURE- REFER TO ELEVATIONS AND WALL SECTIONS	 ن
R-5	ROOF DRAIN: METAL DRAIN PAN AND BASKET ASSEMBLY WITH CLAMP RING SECURED WATER-TIGHT TO ROOFING MEMBRANE- REFER TO PLUMBING FIXTURE SCHEDULE	03 03 03 03 03 03 03 03 03 03 03 03 03 0
R-6	OVERFLOW DRAIN: METAL DRAIN PAN AND BASKET ASSEMBLY WITH CLAMP RING SECURED WATER-TIGHT TO ROOFING MEMBRANE- REFER TO PLUMBING FIXTURE SCHEDULE	S, INC. S, INC. MA 018 biconsult
R-7	PARAPET COPING SYSTEM: SHOP-FABRICATED PRE-FINISHED ALUMINUM- REFER TO WALL SECTIONS FOR DETAILS AND EXTERIOR ELEVATIONS FOR COLOR	JSINES: JSINES: JSINES: JSINES: JSINES: MIHOUT THE ARE AND AD A
R-8	BAY ROOF: SEALED-JOINT ACM COPING / CLADDING SYSTEM OVER LOW-SLOPE ROOFING AND RAIN SCREEN WATERPROOFING SYSTEM; REFER TO EXTERIOR ELEVATIONS AND WALL SECTIONS	VIRO BI VIRO BI 73-2500 73-2500
R-9 R-10	ROOF LADDER: REFER TO DETAILS AS NOTED MECHANICAL EQUIPMENT: VENTILATION UNIT, PACKAGED ROOFTOP HEATING AND COOLING UNIT OR SPLIT-SYSTEM A/C UNIT MOUNTED TO SHOP-FAB. VIBRATION-ISOLATING RAIL OR INSULATED CURB UNIT- LAP FLASH WATER-TIGHT TO ROOFING MEMBRANE. REFER TO DETAILS 1A/M2 AND 1B/M2.	PREPARED BY: EBB EDB EN 21 B S Tel: (781) 2: Trier Are For the exclusion DRAWINGS AND SPECIFICAT THEY ARE FOR THE EXCLUSION THE PROJECT ON VOULOUTING OF ENVIROUSINGS, NC.1
R-11	PLUMBING STACK VENT: PVC SIZED AS REQD. WITH PRE-FABRICATED COMPATIBLE FLASHING BOOT ADHERED TO ROOF MEMBRANE- EXTEND VENT TO ALIGN WITH ADJACENT PARAPET COPING AND PROVIDE LATERAL BRACING AS REQD.	
R-12	SURFACE-MOUNT MECHANICAL PIPING: GAS AND REFRIGERANT PIPING SUPPORTED ON ROOFING BY B-LINE DURA-BLOK PRE-FAB. RUBBER-BASE GALVANIZED STEEL UNISTRUT PIPE SUPPORTS AT 8'-0" o.c. MAX.	OF MISSON
R-13 R-14	SURFACE-MOUNT SIGNAGE EQUIPMENT ENCLOSURE: WATER-TIGHT SHOP-FABRICATED METAL SIGNAGE ENCLOSURE BY SIGN VENDOR- SECURE TO BACKSIDE OF PARAPET WALL WITH MINIMAL PENETRATIONS OF ROOFING MEMBRANE- PROVIDE PERIMETER WATER-TIGHT SEALANT COMPATIBLE WITH ROOF MEMBRANE LANDSCAPE IRRIGATION SYSTEM WEATHER STATION: EASTEMED TO BACKSIDE OF PARAPET USING MEP'S REACKET. SEAL	NUMBER A-2018040323
R-15	MEMBRANE PENETRATIONS W/ 100% SILICONE SEALANT SCUTTLE: PRE-FAB. INSULATED ROOF SCUTTLE WITH RETRACTABLE SAFETY POST- FLASH WATER-TIGHT TO ROOFING MEMBRANE- PROVIDE CARABINER	6/1/2022
R-16	THROUGH LATCH FURNACE VENT: CONCENTRIC OR SIDE-WALL PVC EXHAUST / COMBUSTION AIR INTAKE W/ ROOF MEMBRANE FLASHING BOOT- AT GAS-FIRED FURNACE LOCATIONS	
R-17	ONLY ENTRANCE CANOPY: SHOP FABRICATED PRE-FINISHED CUSTOM ALUMINUM CANOPY UNIT WITH INTEGRAL ELECTRICAL AND DRAINAGE SYSTEMS FASTENDED TO BUILDING	
R-18	STRUCTURE- REFER TO ELEVATIONS AND WALL SECTIONS SUN SHADE: BY STOREFRONT SYSTEM MANUFACTURER- REFER TO EXTERIOR ELEVATION NOTES	AD DRI 8408
R-19	FUTURE PHOTOVOLTAIC PANEL ARRAY AREA: FOR DETAILS OF FUTURE PV SYSTEM, REFER TO "ROOFTOP SOLAR PROGRAM STANDARD BUILDING PACKAGE" DRAWINGS POSTED TO OVP/SPOTLIGHT; ADDITIONAL STRUCTURAL LOADING IS 5PSF AT SLOPED ROOFS AND 10PSF AT FLAT ROOFS	ROA OR RO OR RO
R-20	REFER TO ELEC. RISER DIAGRAM, SHEET E3 RIGID METAL CONDUIT MAST FOR FUTURE CELLULAR ANTENNA:	
		PRY(LOWEN 908 NM LEE'S SU
		EBI JOB #4121000090 ISSUE DATE DESCRIPTION
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		PRYOR & LOWENSTEIN PROTOTYPE VERSION 20.4
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		ROOF PLAN
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	EXTE	RIOR FINISH MATERIALS				
	MANUFACTURED THIN ST	ONE VENEER				
	MANUFACTURER	CORONADO STONE PRODUCTS				
	PRODUCT	CHISELED LIMESTONE				
	COLOR	CREAM				
	SIZE	24" MDE x 12" HIGH x 1" THICK				
		1/4" NOMINAL JOINTS WTH FULL SMOOTH TOOLED COLOR-MATCHED				
ST-4	GROUT	PORTLAND CEMENT GROUT				
	NOTES	RUNNING BOND MANUFACTURED THIN STONE FIELD-CUT TO MAX. LENGTHS POSSIBLE WITH BUTTED AND LAPPED INSIDE CORNERS AND MANUFACTURER'S FABRICATED RETURN CORNER PIECES- MITERED CORNERS ARE NOT ACCEPTABLE- PLACE CONTROL JOINTS AS RECOMMENDED BY THE MANUFACTURER- REFER TO WALL SECTIONS AND				
		DETAILS				
	FIBER CEMENT PANEL- D	ARK				
	MANUFACTURER	NICHIHA FIBER CEMENT				
FC 4	PRODUCT	VINTAGEWOOD AWP 1818 (AVAILABLE AS AWP 3030 FOR NON-PROTOTYPICAL PROJECTS)				
FC-1	COLOR	BARK				
	SIZE	18" NOMINAL x 72" NOMINAL AND 120" NOMINAL				
	NOTES	INCLUDE 3.5" MANUFACTURED CORNERS AND MANUFACTURER'S "ESSENTIAL" FLASHING SYSTEM.				
	FIBER CEMENT PANEL- LIGHT					
	MANUFACTURER	NICHIHA FIBER CEMENT				
EC 2	PRODUCT	VINTAGEWOOD AWP 1818 (AVAILABLE AS AWP 3030 FOR NON-PROTOTYPICAL PROJECTS)				
FG-2	COLOR	ASH				
	SIZE	18" NOMINAL x 72" NOMINAL AND 120" NOMINAL				
	NOTES	INCLUDE 3.5" MANUFACTURED CORNERS AND MANUFACTURER'S "ESSENTIAL" FLASHING SYSTEM.				
	ROOF COPING					
DC 4	MANUFACTURER	PETERSEN ALUMINUM / PAC-CLAD				
RC-1	PRODUCT	PAC-CONTINUOUS				
	COLOR	MATTE BLACK STEEL / BLACK ALUMINUM				
	ALUMINUM COMPOSITE N	MATERIAL				
	MANUFACTURER	ARCONIC ARCHITECTURAL PRODUCTS				
ACIM-1	PRODUCT	REYNOBOND				
	COLOR	DURAGLOSS 5000 DG SILVER				
	ALUMINUM STOREFRONT					
SE.1	MANUFACTURER	KAWNEER				
01-1	PRODUCT	451T				
	COLOR	BLACK ANODIZED ALUMINUM				
	SUNSHADE					
SSH-1						
	COLOR					
	CANOPY					
05 ·	MANUFACTURER	SHOP FABRICATED				
CP-1	PRODUCT					
	COLOR	BLACK ANODIZED ALUMINUM				







			CONCRETE FOOTINGS / FOUNDATIONS:	
		E-2	REFER TO STRUCTURAL DWGS. CONCRETE CURB AND ISLANDS: REFER TO ARCHITECTURAL SITE PLAN AND DRIVE-UP	
		E-3	CANOPY PLAN EMERGENCY ACCESS KEY BOX: WHERE REQUIRED BY LOCAL CODE ONLY- RECESS-MOUNT IN WALL CONSTRUCTION AS REQD. TO SET FACE FLUSH WITH ADJACENT WALL FINISH- VERIFY FINAL LOCATION WITH AUTHORITIES HAVING JURISDICTION	
		E-4	LIGHTING TIMER SYSTEM PHOTO SENSOR: REFER TO ELECTRICAL DRAWINGS	
		E-5	METAL FLASHING AND COUNTER FLASHING CONCEALED BEHIND WALL FINISH AND FINISH OF EXPOSED FLASHING	
			FLASHING AT PREFAB CANOPY: PRE-FINISHED ALUMINUM FLASHING TO SPAN GAP BETWEEN PREFAB CANOPY AND BUILDING CONCEALED BEHIND WALL FINISH- PREFAB TO WALL SECTIONS AND DETAILS. COLOR TO MATCH ERT 4	1803 1803 1803 1803 1803 1803 1803 1803
T.O. PARAPET		E-0	VERIFY FINAL FLASHING LENGTH AND CONFIGURATION WITH APPROVED CANOPY SHOP DWGS	SS, INC in, MA (ebicons ebicons econstate it express w
21'-6" <u>Г.О. РАКАРЕТ</u> 17'-0"	•	E-7	ENTRANCE / ATM CANOPY: SHOP FABRICATED SITE-ASSEMBLED PRE-FINISHED BLACK CUSTOM ALUMINUM CANOPY UNIT WITH PREPPED ELECTRICAL OPENINGS AND INTEGRAL DRAINAGE SYSTEM FASTENDED TO BUILDING STRUCTURE- MAPES ARCHITECTURAL CANOPIES SUPER LUMIDECK WITH FLAT SOFFIT AND 12" FASCIA, OR APPROVED EQUAL- REFER TO ROOF PLAN AND WALL SECTIONS- INSTALLED BY GC. MAPES CANOPIES CAN EITHER PRE-FAB THE UNITS AND SHIP READY-TO -INSTALL, OR SHIP AS KIT OF PARTS FOR GC TO ASSEMBLE ON-SITE; GC SELECTS OPTION WHEN THEY ORDER	EPARED BY: BID CODS ENVIRO BUSINES ENVIRO BUSINES 21 B Street Burlingto 21 B Street Burlingto Tel: (781) 273-2500 www.d WWGS AND SPECIFICATIONS ARE THE PROPERTY AND WWINGS AND SPECIFICATIONS ARE THE PROPERTY AND WINGS AND SPECIFICATIONS ARE THE PROPERTY AND WINDS AND SPECIFICATIONS ARE THE PROPERTY AND
3.O. CANOPY FASCIA		E-8	CONTROL / EXPANSION JOINT: VERTICAL ELASTOMERIC SEALANT JOINT CONTINUOUS THROUGH VENEER- MATCH SEALANT COLOR TO VENEER COLOR	
10'-0"	Ψ-	E-9A	SMALL CANOPY DOWNSPOUT/OVERFLOW: 3" DIAM.ALUMINUM DOWNSPOUT PRE-FIN. TO MATCH THE CANOPY; CONNECT TO CAST IRON DRAIN HUB AT GRADE AND EXTEND SUBSURFACE TO SITE DRAINAGE SYSTEM- REFER TO SITE PLAN	SIGNED DT.
STONE WAINSCOTING	-	E-9B	LARGE CANOPY DOWNSPOUT/OVERFLOW: ROUND ALUMINUM DOWNSPOUT, SIZED AS REQUUIRED, WITH ATTACHEMENT HARDWARE AS REQUIRED, PAINTED TO MATCH ADJACENT WALL/COLUMN FINISH- SPLASH TO CONCRETE DRIVE UP ISLAND	NUMBER A-2018040323
		E-10	SCUPPER: REFER TO ROOF PLAN SURFACE-MOUNT DECORATIVE LIGHT FIXTURE [:]	6/1/2022
Г.О. SLAB)'-0"	•	E-11	REFER TO REFLECTED CEILING PLAN AND ELECTRICAL DRAWINGS SURFACE-MOUNT EMERGENCY LIGHT FIXTURE:	
		E-12	TO BE PROVIDED ONLY WHEN DOOR BELOW IS A REQUIRED OR MARKED EXIT- REFER TO REFLECTED CEILING PLAN AND LIGHT FIXTURE SCHEDULE AUTOMATIC DOOR OPERATOR BUTTON AND KEYCARD READER	Щ
		E-13	RECESSED FLUSH WITH WALL SURFACE- DO NOT SURFACE-MOUNT	
		E-14	HOSE BIB SET FLUSH WITH FACE OF MASONRY VENEER- REFER TO PLUMBING FIXTURE SCHEDULE ELECTRICAL OUTLET:	N DI ROAI
		E-15	SET FLUSH WITH FACE OF MASONRY VENEER- PROVIDE METAL COVER COMPLIANT WITH N.E.C.	О́́́́́́́́́́́́́́́́́́́́́́́́́́́́́́́́́́́́
		E-16	PROVIDE CONCEALED JUNCTION BOX AND CONDUIT TO INTERIOR; REFER TO OWNER'S SECURITY CONSULTANT DRAWINGS BANK EQUIPMENT:	STI STI MMI
		E-17	FURNISHED AND INSTALLED BY BANK EQUIPMENT VENDOR- COORD. WALL OPENINGS AND ELECTRICAL / DATA REQUIREMENTS WITH OWNER-FURNISHED EQUIPMENT SHOP DRAWINGS AND PRODUCT DATA	NEN S SU
		E-18	SIGNAGE: BY OWNER'S SIGN VENDOR- N.I.C PROVIDE ROUGH ELEC. WORK AND BLOCKING IN WALL AS REQD. FOR VENDOR INSTALLATION	
		E-19	WHITE VINYL NUMBERS WITH 1/2" WIDE STROKE APPLIED TO INTERIOR FACE OF GLASS TRANSOM- MIN. 6" HEIGHT OR AS REQD. BY LOCAL CODE	
Ψ		E-20	ELECTRICAL SERVICE CT / METER CABINET: REFER TO ELECTRICAL DRAWINGS. PAINT TO MATCH ADJACENT SURFACE	EBI JOB #4121000090 ISSUE DATE DESCRIPTION
		E-21	EMERGENCY TRANSFER SWITCH: REFER TO ELECTRICAL DRAWINGS. PAINT TO MATCH ADJACENT SURFACE.	0 03/02/2022 PERMIT 1 04/11/2022 PERMIT REVISIONS
		E-22	PHOTOVOLTAIC SYSTEM FUSED DISCONNECT SWITCH: REFER TO ELECTRICAL DRAWINGS. PAINT TO MATCH ADJACENT SURFACE.	
		E-23	TELE / DATA / UTILITY CONNECTIONS: REFER TO ELECTRICAL DRAWINGS. PAINT TO MATCH ADJACENT SURFACE.	
IOPY FASCIA		E-24	LANDSCAPE IRRIGATION SYSTEM: CONTROLLER, WIRELESS NETWORK CONNECTOR, AND DEDICATED WP POWER OUTLET; REFER TO SITE PLAN AND ELECTRICAL PLAN. PAINT TO MATCH ADJACENT SURFACE.	
		E-25	GAS METER: REFER TO SITE PLAN AND PLUMBING DRAWINGS. PAINT TO MATCH ADJACENT SURFACE.	
		E-26	FUTURE PHOTOVOLTAIC SYSTEM DISCONNECT SWITCH AND PERFORMANCE METER: REFER TO ELECTRICAL DRAWINGS FIRE ALARM SYSTEM BELL AND STROBE:	PRYOR & LOWENSTEIN
B		E-27	WHERE REQUIRED BY LOCAL CODE ONLY- VERIFY FINAL LOCATION WITH LOCAL AUTHORITIES HAVING JURISDICTION	
-\		E-28	FIRE DEPARTMENT CONNECTION: FIRE SUPPRESSION SYSTEM EXTERIOR CONNECTION WHERE REQD. BY LOCAL CODE ONLY- VERIFY FINAL LOCATION WITH LOCAL AUTHORITIES HAVING JURISDICTION	
		E-29	KOOF OVERFLOW DOWNSPOUT NOZZLE: REFER TO PLUMBING DRAWINGS AND DESIGN INTENT ARCHITECTURAL SITE PLAN	EXTERIOR ELEVATIONS
		E-30	SUN SHADE: GLAZING SYSTEM MANUFACTURER'S STANDARD INTEGRAL SHADE ACCESSORY- REFER TO WALL SECTIONS; MATCH GLAZING SYSTEM FINISH; BASIS OF DESIGN IS KAWNEER VERSOLEIL 30" WEDGE WITH ANGULAR FASCIA AND CIRCULAR BLADES	02/04/2022 SHEET
		E-31	BULLARD: REFER TO ARCHITECTURAL SITE PLAN AND DRIVE-UP CANOPY PLAN	Δク1
		E-32	G.C. TO PROVIDE 6" HIGH WHITE ARABIC ADDRESS NUMBERS WITH MIN 1/2" STROKE WIDTH	/\∠.

	EXT	ERIOR FINISH MATERIALS					
	MANUFACTURED THIN STONE VENEER						
	MANUFACTURER	CORONADO STONE PRODUCTS					
	PRODUCT	CHISELED LIMESTONE					
	COLOR	CREAM					
	SIZE	24" WIDE x 12" HIGH x 1" THICK					
CT 4		1/4" NOMINAL JOINTS WITH FULL SMOOTH TOOLED COLOR-MATCHED					
51-4	GROUT	PORTLAND CEMENT GROUT					
		RUNNING BOND MANUFACTURED THIN STONE FIELD-CUT TO MAX. LENGTHS					
		POSSIBLE WITH BUTTED AND LAPPED INSIDE CORNERS AND					
	NOTES	MANUFACTURER'S FABRICATED RETURN CURNER PIECES- MITERED					
		RECOMMENDED BY THE MANUFACTURER- REFER TO WALL SECTIONS AND					
		DETAILS					
	FIBER CEMENT PANEL-	DARK					
	MANUFACTURER	NICHIHA FIBER CEMENT					
		VINTAGEWOOD AWP 1818 (AVAILABLE AS AWP 3030 FOR NON-PROTOTYPICAL					
EC-1		PROJECTS)					
10-1	COLOR	BARK					
	SIZE	18" NOMINAL x 72" NOMINAL AND 120" NOMINAL					
	NOTES	INCLUDE 3.5" MANUFACTURED CORNERS AND MANUFACTURER'S					
		"ESSENTIAL" FLASHING SYSTEM.					
	FIBER CEMENT PANEL-						
EC 2	PRODUCT	VINTAGEWOOD AWP 1818 (AVAILABLE AS AWP 3030 FOR NON-PROTOTYPICAL PROJECTS)					
FG-2	COLOR	ASH					
	SIZE	18" NOMINAL x 72" NOMINAL AND 120" NOMINAL					
	NOTES	INCLUDE 3.5" MANUFACTURED CORNERS AND MANUFACTURER'S "ESSENTIAL" FLASHING SYSTEM.					
	ROOF COPING						
	MANUFACTURER	PETERSEN ALUMINUM / PAC-CLAD					
RC-1	PRODUCT	PAC-CONTINUOUS					
	COLOR	MATTE BLACK STEEL / BLACK ALUMINUM					
	ALUMINUM COMPOSITE	MATERIAL					
	MANUFACTURER	ARCONIC ARCHITECTURAL PRODUCTS					
ACM-1	PRODUCT	REYNOBOND					
	COLOR	DURAGLOSS 5000 DG SILVER					
	ALUMINUM STOREFRON	Τ					
05.4	MANUFACTURER	KAWNEER					
SF-1	PRODUCT	451T					
	COLOR	BLACK ANODIZED ALUMINUM					
	SUNSHADE						
SSH-1	MANUFACTURER	KAWNEER					
		BLACK ANODIZED ALUMINUM					
		SHOP FABRICATED					
CP-1	PRODUCT						
	COLOR	BLACK ANODIZED ALUMINUM					









		ELEVATION NOTES	
	E-1	CONCRETE FOOTINGS / FOUNDATIONS: REFER TO STRUCTURAL DWGS. CONCRETE CURB AND ISLANDS: REFER TO ARCHITECTURAL SITE PLAN AND DRIVE-UP	
	E-3	CANOPY PLAN EMERGENCY ACCESS KEY BOX: WHERE REQUIRED BY LOCAL CODE ONLY- RECESS-MOUNT IN WALL CONSTRUCTION AS REQD. TO SET FACE FLUSH WITH ADJACENT WALL FINISH- VERIFY FINAL LOCATION WITH AUTHORITIES HAVING	
	E-4	JURISDICTION LIGHTING TIMER SYSTEM PHOTO SENSOR: REFER TO ELECTRICAL DRAWINGS	
	E-5	METAL FLASHING AND COUNTER FLASHING CONCEALED BEHIND WALL FINISH AND FINISH OF EXPOSED FLASHING TO MATCH ADJACENT ROOFING/COPING	om PPTNG NT NT
T.O. PARAPET 21'-6" T.O. PARAPET 19'-4"	E-6	FLASHING AT PREFAB CANOPY: PRE-FINISHED ALUMINUM FLASHING TO SPAN GAP BETWEEN PREFAB CANOPY AND BUILDING CONCEALED BEHIND WALL FINISH- REFER TO WALL SECTIONS AND DETAILS- COLOR TO MATCH EPT-4- VERIFY FINAL FLASHING LENGTH AND CONFIGURATION WITH APPROVED CANOPY SHOP DWGS	Sultring the second sec
T.O. PARAPET 17'-0"	E-7	ENTRANCE / ATM CANOPY: SHOP FABRICATED SITE-ASSEMBLED PRE-FINISHED BLACK CUSTOM ALUMINUM CANOPY UNIT WITH PREPPED ELECTRICAL OPENINGS AND INTEGRAL DRAINAGE SYSTEM FASTENDED TO BUILDING STRUCTURE- MAPES ARCHITECTURAL CANOPIES SUPER LUMIDECK WITH FLAT SOFFIT AND 12" FASCIA, OR APPROVED EQUAL- REFER TO ROOF PLAN AND WALL SECTIONS- INSTALLED BY GC. MAPES CANOPIES CAN EITHER PRE-FAB THE UNITS AND SHIP READY-TO –INSTALL, OR SHIP AS KIT OF PARTS FOR GC TO ASSEMBLE ON-SITE; GC SELECTS OPTION WHEN THEY ORDER	REPARED BY: EBBI CODI ENVIRO BUSINI ENVIRO BUSINI 21 B Street Burling Tel: (781) 273-2500 www HEP ARE FOR THE EXCLUSIVE USE BY THE PROPERTY HER PROJECT ON WHICH THEY WERE REPARED AND THER PROJECT. ANY UDPLICATION OR USE WITHOUT OF ENVIROBUSINESS, INC. IS STRICTLY PROHIBITED.
	E-8	CONTROL / EXPANSION JOINT: VERTICAL ELASTOMERIC SEALANT JOINT CONTINUOUS THROUGH VENEER- MATCH SEALANT COLOR TO VENEER COLOR	SIGNED BY:
ы м	E-9A	SMALL CANOPY DOWNSPOUT/OVERFLOW: 3" DIAM.ALUMINUM DOWNSPOUT PRE-FIN. TO MATCH THE CANOPY; CONNECT TO CAST IRON DRAIN HUB AT GRADE AND EXTEND SUBSURFACE TO SITE DRAINAGE SYSTEM- REFER TO SITE PLAN	OF MISS JOSHUA W. CARRELL
<u>"" </u>	E-9B	LARGE CANOPY DOWNSPOUT/OVERFLOW: ROUND ALUMINUM DOWNSPOUT, SIZED AS REQUUIRED, WITH ATTACHEMENT HARDWARE AS REQUIRED, PAINTED TO MATCH ADJACENT WALL/COLUMN FINISH- SPLASH TO CONCRETE DRIVE UP ISLAND	NUMBER A-2018040323
T.O. SLAB	E-10	SCUPPER: REFER TO ROOF PLAN	Withour
0-0"	E-11	SURFACE-MOUNT DECORATIVE LIGHT FIXTURE: REFER TO REFLECTED CEILNG PLAN AND ELECTRICAL DRAWINGS	6/1/2022
	E-12	TO BE PROVIDED ONLY WHEN DOOR BELOW IS A REQUIRED OR MARKED EXIT- REFER TO REFLECTED CEILING PLAN AND LIGHT FIXTURE SCHEDULE	Ш >
	E-13	AUTOMATIC DOOR OPERATOR BUTTON AND KEYCARD READER RECESSED FLUSH WITH WALL SURFACE- DO NOT SURFACE-MOUNT HOSE BIB	AD AD 4081
	E-14	SET FLUSH WITH FACE OF MASONRY VENEER- REFER TO PLUMBING FIXTURE SCHEDULE ELECTRICAL OUTLET:	
	E-15	SET FLUSH WITH FACE OF MASONRY VENEER- PROVIDE METAL COVER COMPLIANT WITH N.E.C.	<u>х</u> ш б ^т
	E-16	SECURITY CAMERA: PROVIDE CONCEALED JUNCTION BOX AND CONDUIT TO INTERIOR; REFER TO OWNER'S SECURITY CONSULTANT DRAWINGS	NUN AST
<u>T.O. PARAPET</u> 21'-6"	E-17	BANK EQUIPMENT: FURNISHED AND INSTALLED BY BANK EQUIPMENT VENDOR- COORD. WALL OPENINGS AND ELECTRICAL / DATA REQUIREMENTS WITH OWNER-FURNISHED EQUIPMENT SHOP DRAWINGS AND PRODUCT DATA	WEN WEN 08 NM EFS SU
<u>T.O. PARAPET</u> 19-4"	E-18	SIGNAGE: BY OWNER'S SIGN VENDOR- N.I.C PROVIDE ROUGH ELEC. WORK AND BLOCKING IN WALL AS REQD. FOR VENDOR INSTALLATION	
<u>T.O. PARAPET</u> 17'-0"	E-19	BUILDING ADDRESS NUMBER: WHITE VINYL NUMBERS WITH 1/2" WIDE STROKE APPLIED TO INTERIOR FACE OF GLASS TRANSOM- MIN. 6" HEIGHT OR AS REQD. BY LOCAL CODE	EBI JOB #4121000090
	E-20	ELECTRICAL SERVICE CT / METER CABINET: REFER TO ELECTRICAL DRAWINGS	ISSUE DATE DESCRIPTION 0 03/02/2022 PERMIT
E-11	E-21	EMERGENCY TRANSFER SWITCH: REFER TO ELECTRICAL DRAWINGS	1 04/11/2022 PERMIT REVISIONS
	E-22	PHOTOVOLTAIC SYSTEM FUSED DISCONNECT SWITCH: REFER TO ELECTRICAL DRAWINGS	
	E-23	TELE / DATA / UTILITY CONNECTIONS: REFER TO ELECTRICAL DRAWINGS LANDSCAPE IRRIGATION SYSTEM: CONTROLLER, WIRELESS NETWORK CONNECTOR, AND	
<u>E-20</u>	E-24	DEDICATED WP POWER OUTLET; REFER TO SITE PLAN AND ELECTRICAL PLAN GAS METER: DEFER TO SITE PLAN AND PLUMPING DRAMINGS	
	E-26	FUTURE PHOTOVOLTAIC SYSTEM DISCONNECT SWITCH AND PERFORMANCE METER: REFER TO ELECTRICAL DRAWINGS	CHASE
T.O. SLAB 0'-0"	E-27	FIRE ALARM SYSTEM BELL AND STROBE: WHERE REQUIRED BY LOCAL CODE ONLY- VERIFY FINAL LOCATION WITH LOCAL AUTHORITIES HAVING JURISDICTION FIRE DEPARTMENT CONNECTION:	PRYOR & LOWENSTEIN PROTOTYPE VERSION 20.4
	E-28	FIRE SUPPRESSION SYSTEM EXTERIOR CONNECTION WHERE REQD. BY LOCAL CODE ONLY- VERIFY FINAL LOCATION WITH LOCAL AUTHORITIES HAVING JURISDICTION	CONTENTS
	E-29	ROOF OVERFLOW DOWNSPOUT NOZZLE: REFER TO PLUMBING DRAWINGS AND DESIGN INTENT ARCHITECTURAL SITE PLAN	EXTERIOR ELEVATIONS
	E-30	SUN SHADE: GLAZING SYSTEM MANUFACTURER'S STANDARD INTEGRAL SHADE ACCESSORY- REFER TO WALL SECTIONS; MATCH GLAZING SYSTEM FINISH; BASIS OF DESIGN IS KAWNEER VERSOLEIL 30" WEDGE WITH ANGULAR FASCIA AND CIRCULAR BLADES BOLLARD:	02/04/2022
	E-31	REFER TO ARCHITECTURAL SITE PLAN AND DRIVE-UP CANOPY PLAN	SHEET
			A2.2







					DOOR TYPES	S SCH
		TYPICAL SIZE		DC	OOR	
TYPE	w	н	Т	MATERIAL	FINISH	
A ENTRANCE	(2) 3'-1 3/4"	7'-6"	1 3/4"	ALUMINUM / INSUL. GLASS	BLACK ANODIZED	
A (2ND ENTRANCE)	(2) 3'-1 3/4"	7'-6"	1 3/4"	ALUMINUM / INSUL. GLASS	BLACK ANODIZED	
B VESTIBULE	(2) 3'-0"	7'-6"	1 3/4"	ALUMINUM / GLASS	BLACK ANODIZED	
E SECURED	3'-0"/ 3'-4"	7'-0"	1 3/4"	SOLID-CORE FLUSH WOOD	PAINT TO MATCH ADJACENT WALL	НО
F PRIVACY (RESTROOM, SDB CHEST RM.)	3'-0"/ 3'-4"	7'-0"	1 3/4"	SOLID-CORE WOOD	PAINT TO MATCH ADJACENT WALL	HO
F1 PRIVACY (SDB VIEWING RM.)	3'-0"/ 3'-4"	7'-0"	1 3/4"	SOLID-CORE WOOD	PAINT TO MATCH ADJACENT WALL	HO
G BULLET-RESISTANT	3'-0"/ 3'-4"	7'-0"	1 3/4"	REINFORCED SOLID- CORE FLUSH WOOD	PAINT TO MATCH ADJACENT WALL	НО
H EGRESS/STEEL	3'-0"	7'-6"	1 3/4"	INSUL. STEEL	INT.: MATCH WALL EXT: EPT-1	НО
L UTILITY	3'-0"	7'-0"	1 3/4"	SOLID-CORE FLUSH WOOD	PAINT TO MATCH ADJACENT WALL	HO
L1 FIRE-RATED UTILITY	3'-0"	7'-0"	1 3/4"	SOLID-CORE FLUSH WOOD	PAINT TO MATCH ADJACENT WALL	НО
M PASSAGE	3'-0"/ 3'-4"	7'-0"	1 3/4"	SOLID-CORE FLUSH WOOD	PAINT TO MATCH ADJACENT WALL	НО
Q OVERHEAD COILING	SEE PLAN	FLUSH W/ CEILING	NA	ALUMINUM / POLYCARBONATE	BLACK ANODIZED- FIELD-PAINT BOTTOM RAIL/PLATE BOTTOM SURFACE PT-500	
R EMPLOYEE ENTRANCE	3'-0"	7'-6"	1 3/4"	ALUMINUM / GLASS	BLACK ANODIZED	

Arr Book A Book A Book Book </th <th></th> <th></th> <th></th> <th>DOOR HAP</th> <th>RDWARE SCHEDULI</th> <th>E</th> <th>06 UTILITY</th> <th>BUTT HINGE (3)</th> <th>HAGER</th> <th>BB1191 ANSI A2112 4.5x4.5</th> <th>626 SATIN CHROMIUM</th>				DOOR HAP	RDWARE SCHEDULI	E	06 UTILITY	BUTT HINGE (3)	HAGER	BB1191 ANSI A2112 4.5x4.5	626 SATIN CHROMIUM
No. 11-32 0.1 </th <th>GROUP</th> <th>COMPONENT</th> <th>MFR.</th> <th>MODEL</th> <th>FINISH</th> <th>NOTES</th> <th>OTILITY</th> <th>STOREROOM LOCK SET</th> <th>SCHLAGE</th> <th>ND80PD/C123/SPA</th> <th>626 SATIN CHROMIUM</th>	GROUP	COMPONENT	MFR.	MODEL	FINISH	NOTES	OTILITY	STOREROOM LOCK SET	SCHLAGE	ND80PD/C123/SPA	626 SATIN CHROMIUM
Physical Interaction Inclusion Units of the second	01	BUTT HINGE (6)	HAGER	BB1191 4.5x4.5 L1 NRP	BLACK	STOCK# 006597		CLOSER	LCN	4011/4041-3077	SP28 GRAY PAINT
Marka A 184 0.70 0.70 0.70 0.70 0.70 0.70 0.70 0.7	ENTRANCE / 01A	REMOVABLE MULLION	VON DUPRIN	KR4854	SPBLK (BLACK PAINT)			CONCEALED OVERHEAD STOP/HOLDER	GLYNN-JOHNSON	410H	630 SATIN STAINLESS STE
Note: Noe:: Note: Note: <th< td=""><td>ENTRANCE 2</td><td>PANIC BAR</td><td>VON DUPRIN</td><td>CD99EO</td><td>626 SATIN CHROMIUM</td><td></td><td></td><td>KICK PLATE (2)</td><td>IVES</td><td>8400</td><td>630 SATIN STAINLESS STE</td></th<>	ENTRANCE 2	PANIC BAR	VON DUPRIN	CD99EO	626 SATIN CHROMIUM			KICK PLATE (2)	IVES	8400	630 SATIN STAINLESS STE
Image: state in the s		PANIC BAR	VON DUPRIN	CD99NL-OP	626 SATIN CHROMIUM				PEMKO	4131CNBI	
			SCHLAGE	20-001/C123	626 SATIN CHROMIUM	NOTE 8		DOOR SCOPE	IPI / DOOR SCOPE	DS2000	SILVER PAINT
Result Description Description <thdescription< th=""> <thdescription< th=""> <thd< td=""><td></td><td></td><td>SCHLAGE</td><td>20-001 XQ11-948/C123</td><td>626 SATIN CHROMIUM</td><td></td><td></td><td>SILENCERS</td><td>IVES</td><td>SR64</td><td>GRAY</td></thd<></thdescription<></thdescription<>			SCHLAGE	20-001 XQ11-948/C123	626 SATIN CHROMIUM			SILENCERS	IVES	SR64	GRAY
Proprint Proprint Provide				20-022 6111 ESE DS 241/	630 SATIN STAINI ESS STEEL	OMIT AT TYPE 01A (NOTES 4.5)	09	BUTT HINGE (2)	HAGER	BB1191 ANSA A5112 NRP 4.5x4.5	630 SATIN STAINLESS STE
		CARD READER SYSTEM	PARABIT	ACSIEV2	BLACK	PROVIDED AND INSTALLED BY OWNER'S SECURITY SYSTEM VENDOR. OMIT AT TYPE 01A (NOTES 4.5)	EGRESS	POWER TRANSFER HINGE (1)	HAGER	BB1191 ANSI A5112 ETW 4.5 x 4.5	630 SATIN STAINLESS STE
		OFFSET DOOR PULL (2)	IVES	8190-0-O	630 SATIN STAINLESS STEEL			PANIC BAR WITH ALARM	VON DUPRIN	99NL-OP-ALK-AR-CON-3'-US26D	626 SATIN CHROMIUM
Approximant		OFFSET DOOR PULL (ALT.) (2)	TRIMCO	1191E-3-4.BPVC	PVC	PVC-COATED "STAY-COOL" PULLS FOR USE IN THE DESERT SOUTHWEST ONLY		ALARM POWER SUPPLY	VON DUPRIN	PS-900 SERIES	
		POWER OPERATOR	LCN	4640CS	POWDER COAT BLACK	OMIT AT TYPE 01A. MATCH EXISTING STOREFRONT COLOR AT IN-LINE OR EXISTING BUILDING		MORTISE CYLINDER	SCHLAGE	20-001/C123	626 SATIN CHROMIUM
Image: space				8310_853T		PROJECTS: INCLUDE CONCEALED SWITCH BLANK END PLATE 334-2. (NOTE 5)			SCHLAGE	20-022	626 SATIN CHROMIUM
		EXCEPT CALIFORNIA PROJECTS	LCN	(4" SQUARE)	SATIN S.S	OMIT AT TYPE 01A			IVES	8400	630 SATIN STAINI ESS STE
		DOOR PUSHPLATES (4)	LCN	8310-853T	SATIN S.S	OMIT AT TYPE 01A		SEALS	РЕМКО	297AS	MILL-FIN. ALUMINUM
Image: Source state is a state in the state is a state				(4 SQUARE) 8310-836T				DOOR SWEEP	РЕМКО	315CN	CLEAR ANOD. ALUMINUM
Intermediation 1.1.0 0.1.00 0.1.0000000000000000000000000000000000		OPT. BAR AT CALIFORNIA PROJECTS ONLY	LCN	(6" x 36" BAR)	SATIN S.S	OMIT AT TYPE 01A		THRESHOLD	РЕМКО	170A	MILL-FIN. ALUMINUM
Ange Ange <th< td=""><td></td><td>SURFMOUNT PUSH PLATE ENCLOSURE</td><td>LCN</td><td>8310-867S</td><td>BLACK PLASTIC</td><td>FOR USE ONLY AT NON-STANDARD PLANS WHERE A WALL WITH ACCESSIBLE CLEARANCES IS NOT</td><td></td><td>DOOR SCOPE</td><td>IPI / DOOR SCOPE</td><td>DS2000 168 degree</td><td>SILVER PAINT</td></th<>		SURFMOUNT PUSH PLATE ENCLOSURE	LCN	8310-867S	BLACK PLASTIC	FOR USE ONLY AT NON-STANDARD PLANS WHERE A WALL WITH ACCESSIBLE CLEARANCES IS NOT		DOOR SCOPE	IPI / DOOR SCOPE	DS2000 168 degree	SILVER PAINT
Part Part Part of the same discrete provide discret		KEY SWITCH	SCHLAGE	653-1414-L2		NARROW-STILE COVER PLATE- OMIT AT TYPE 01A	10 BULLET-RESISTANT	CONTINUOUS HINGE			SATIN CHROME/STAINLESS S
Adv. Adv. <th< td=""><td></td><td>CLOSER</td><td>I CN</td><td>4111-3077CNS</td><td>STANDARD POWDER COAT BLACK</td><td>PROVIDE 2 AT TYPE 01A, SET TO LOWEST POSSIBLE OPENING FORCE REQUIRED TO MAINTAIN</td><td></td><td></td><td>SCHLAGE</td><td>CO-100-CY-70-KP-SPA-626-PD-C123</td><td>626 SATIN CHROMIUM</td></th<>		CLOSER	I CN	4111-3077CNS	STANDARD POWDER COAT BLACK	PROVIDE 2 AT TYPE 01A, SET TO LOWEST POSSIBLE OPENING FORCE REQUIRED TO MAINTAIN			SCHLAGE	CO-100-CY-70-KP-SPA-626-PD-C123	626 SATIN CHROMIUM
			DEMKO	2074 6		WEATHER SEAL INTEGRITY				4011/4041-30/7 CNS	
Image: Proceeding of the second of		SWEEP- STANDARD	РЕМКО	297A5				KICK PI ATE	IVES	8400	630 SATIN STAINI ESS STE
Intra Intra <t< td=""><td></td><td>SWEEP- HIGH WIND CONDITIONS</td><td>РЕМКО</td><td>315DN</td><td>DARK ANOD, BRONZE</td><td>ORDER LONG AND CUT METAL SHORT TO ALLOW NEOPRENE TO EXTEND BEYOND DOOR LOCK EDGE</td><td></td><td>DOOR SCOPE</td><td>IPI / DOOR SCOPE</td><td>DS2000</td><td>SILVER PAINT</td></t<>		SWEEP- HIGH WIND CONDITIONS	РЕМКО	315DN	DARK ANOD, BRONZE	ORDER LONG AND CUT METAL SHORT TO ALLOW NEOPRENE TO EXTEND BEYOND DOOR LOCK EDGE		DOOR SCOPE	IPI / DOOR SCOPE	DS2000	SILVER PAINT
N M M M M M M Column		THRESHOLD	РЕМКО	253X3AFG	MILL-FIN. ALUMINUM			SILENCERS	IVES	SR64	GRAY
Mark Example of the second of th	02	BUTT HINGE (6)	HAGER	BB1191 4.5x4.5 L1 NRP	BLACK	STOCK# 006597	14		0114 551411	2130.100	PAINT TO MATCH ADJ. FIN
Minute Output Output<	VESTIBULE	REMOVABLE MULLION	VON DUPRIN	KR4954	SPBLK (BLACK PAINT)		TRASH ENCLOSURE	BARREL HINGES (I PAIR PER LEAF)	GUARDIAN	2135.100	PAINT TO MATCH ADJ. FIN
Physical (1996) Physical (PANIC BAR	VON DUPRIN	CD99EO	626 SATIN CHROMIUM			LATCH	STANLEY	621513	GALVANIZED STEEL
Alterna Alterna Alterna Alterna Alterna Alterna Image: Alterna <		PANIC BAR	VON DUPRIN	CD99NL-OP	626 SATIN CHROMIUM			PULL (1 PER LEAF)	CROWN BOLT	62309	GALVANIZED STEEL
Image: sec: sec: sec: sec: sec: sec: sec: se		MORTISE CYLINDER	SCHLAGE	20-001/C123	626 SATIN CHROMIUM	NOTE 8		CANE BOLT (1 PER LEAF)	STANLEY	532531	GALVANIZED STEEL
Image: state		MORTISE CYLINDER (2)	SCHLAGE	20-001 XQ11-948/C123	626 SATIN CHROMIUM			SPRING-LOADED CASTERS (1 PER LEAF)	ABBEY TRADING	081-368-1	GALVANIZED STEEL
Note (No. 1) No. 4			SCHLAGE	20-022			16	BULTS AND MISC. HARDWARE		 BB1101 // 5x/ 5 1 NDD	BLACK
Application Control Application Application Application Application Application Control Application Control Application Application <td></td> <td></td> <td>I CN</td> <td>4640CS</td> <td>POWDER COAT BLACK</td> <td>INCLUDE CONCEALED SWITCH BLANK END PLATE 334-2 (NOTE 5)</td> <td>EMPLOYEE</td> <td></td> <td></td> <td></td> <td>BLACK</td>			I CN	4640CS	POWDER COAT BLACK	INCLUDE CONCEALED SWITCH BLANK END PLATE 334-2 (NOTE 5)	EMPLOYEE				BLACK
Part of the second se		DOOR PUSHPLATES (2)		8310-853T			ENTRANCE		SCHLAGE	L9080/C123/SPA	626 SATIN CHROMIUM
Image: state		EXCEPT CALIFORNIA PROJECTS	LCN	(4" SQUARE)	SATIN S.S			LEVERS (2)	SCHLAGE	SPARTA	626 SATIN CHROMIUM
No. 8, 2000		DOOR PUSHPLATES (4)	LCN	8310-853T (4" SQUARE)	SATIN S.S	OMIT AT TYPE 01A		SILENCERS	IVES	SR64	GRAY
ps:/ps://www.sec.up/s		DOOR PUSHPLATES (2)		8310-836T						4111-3077/CNS	STANDARD POWDER COAT B
Image: status Image: s		OPT. BAR AT CALIFORNIA PROJECTS ONLY	LUN	(6" x 36" BAR)	5A11N 5.5		NOTES:	1. DOOR SCOPE REQUIRED UNI ESS DOOR I		I FSTS7 FST7 BE CLOSED WHILE OCCUPIED (LE. CLOS	SETS) OR DOOR DOES NOT OPE
Introduction Introduction Introduction Introduction Introduction		SURFMOUNT PUSH PLATE ENCLOSURE	LCN	8310-867S	BLACK PLASTIC	FOR USE ONLY AT NON-STANDARD PLANS WHERE WALL WITH ACCESSIBLE CLEARANCES IS NOT AVAILABLE. NOT TO BE USED AT ANY EXTERIOR NEW-BUILD CONDITION.		2. HARDWARE SET 08A - ALT. GLASS SHALL	BE SPECIFIED ONLY A	T PROJECTS WHERE AUTHORITIES HA	VING JURISDICTION DO NOT PER
Cigita		KEY SWITCH	LCN	8310-806K		RECESSED IN HINGE JAMB MULLION at 38" AFF (NOTE 5)		3. DOOR HARDWARE VENDOR IS TO VERIFY	COMPATIBILITY OF S	PECIFIED HARDWARE AND SUBMIT RE	COMMENDATIONS AS REQUIRED
mm mm <thmm< th=""> mm mm mm<</thmm<>		CLOSER	LCN	4111-3077CNS	STANDARD POWDER COAT BLACK	LEFT-HAND LEAF AS VIEWED FROM EXTERIOR, ADA COMPLIANT		ANY DEVIATIONS FROM SCEHDULED HARD	VARE MUST BE APPRO	OVED BY THE OWNER. CHANGE ORDE	RS RESULTING FROM NON-COM
Bit Wall Los Bit Wall Los Other Wall Wall Wall Wall Wall Wall Wall Wal		BUTT HINGE (3)	HAGER	BB1191 ANSI A2112 4.5x4.5	626 SATIN CHROMIUM			4. OMIT PARABIT AFTER-HOURS CARD REAL		WHERE DOORS DO NOT ACCESS A 24-	HOUR VESTIBULE WITH ATM OR
Late Late Late Late Market Market Market Market Market Market Market 1000000000000000000000000000000000000	SECORED	ELECTRONIC LOCK	SCHLAGE	CO-100-CY-70-KP-SPA-626-PD-C123	626 SATIN CHROMIUM	NOTE 8		6 AD IUST DOOR CLOSERS TO COMPLY WIT	H ANSI A117 1 REOLIIE		
Multiple		CLOSER	LCN	4011/4041-3077	SP28 GRAY PAINT	DOOR-MOUNT ON ROOM SIDE- NOT VISIBLE TO CUSTOMERS; ADA COMPLIANT		7. FOR PROJECTS WITH A SINGLE ALARMED	EGRESS DOOR, INST	ALL POWER SUPPLY ABOVE FINISH CE	ILING OVER DOOR. FOR PROJEC
No. No. DOP DOP NEWSY IS CLASS TO CLASS AND				FS13/FS17		AT DOORS OPENING AGAINST WALL; WITH R14 RISER AS REQUIRED		CENTRAL LOCATION.			
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LabelCodeC	PRIVACY	ELECTRONIC LOCK	SCHLAGE	CO-100-CY-40-KP-SPA-626-PD-C123	626 SATIN CHROMIUM	WITH PRIVACY FUNCTION; NOTE 8					
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626 SATIN CHROMIUM	NOTE 8	
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30 SATIN STAINI EQQ QTEEI	OVERHEAD CONCEALED COMBINED STOP/HOLDER REQUIRED AT PLUMBING/JANITOR CLOSET,	
J. MINTOTAINELUU UTEEL	ELECTRICAL, AND DATA ROOMS; OMIT AT ROOMS WITH LADDER ONLY.	
30 SATIN STAINLESS STEEL	8" x 2" LESS THAN DOOR WIDTH; PLUMBING/JANITOR CLOSET, ELECTRICAL, AND DATA ROOMS REQUIRE KICK PLATES AT BOTH SIDES OF DOOR.	
CLEAR ANOD. ALUMINUM	DATA ROOM DOOR ONLY	
SILVER PAINT	ALUMINUM BODY, NOTE 1	
GRAY		
30 SATIN STAINLESS STEEI		
30 SATIN STAINLESS STFFI	4-CONDUCTOR THROUGH-WIRE POWER TRANSFER HINGE	
626 SATIN CHROMIUM	PANIC BAR WITH ALARM KIT, AUTO-RESET, AND MFR'S POWERED HINGE WIRING KIT. LENGTH AS REOD	
	INCLUDE INTERNAL BACKUP BATTERY; SEE NOTE 7	
626 SATIN CHROMIUM	NOTE 8	
626 SATIN CHROMIUM		
	ADA COMPLIANT	
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		Safety Structure Control Contr
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626 SATIN CHROMIUM	WITH R14 RISER AS REQUIRED	
30 SATIN STAINLESS STEEL	PUSH SIDE ONLY; 8" x 2" LESS THAN DOOR WIDTH	
SILVER PAINT	ALUMINUM BODY, NOTE 1	-
GRAY		
AINT TO MATCH ADJ. FINISH	AT C.M.U. ENCLOSURES- OR EQUAL- 1000-LB. CAPACITY PER PAIR, PRIMED STEEL	SIGNED BY:
AINT TO MATCH ADJ. FINISH	AT STEEL POST ENCLOSURES- OR EQUAL- 1000-LB. CAPACITY PER PAIR, PRIMED STEEL	STOF MICH
GALVANIZED STEEL	OR EQUAL	TE CLANDSON /
GALVANIZED STEEL	OR EQUAL	JOSHUA W. CARRELL
GALVANIZED STEEL	BY PANEL SYSTEM MANUFACTURER	tophua W Carry
GALVANIZED STEEL	OR EQUAL	
STAINLESS STEEL		A-2018040525
BLACK	STOCK #006597	CHITECHI
626 SATIN CHROMIUM	WHERE DOOR MFR'S LOCK BODY IS REQD., PROVIDE SCHLAGE LOCK CYLINDER, ANSI F07 "STOREROOM	-4112772-
	LUGK FUNCTION; ADA SINGLE-ACTION COMPLIANT; NOTE 8	6/1/2022
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626 SATIN CHROMIUM		I <u>U</u> I
S SPEED. SET OPENING FORCE A OVER DOOR. FOR PROJECTS WITH	S LOW AS POSSIBLE WHILE ALLOWING THE DOOR TO FULLY LATCH. H MULTIPLE ALARMED DOORS, INSTALL SIZE POWER SUPPLY FOR MULTIPLE DOORS AND INSTALL IN A STANDARDS- MATCH LOCAL CONFIGURATION.	PRYOR RC OWENSTEII 908 NW PRYOR LEE'S SUMMIT, M
		EBI JOB #4121000090 ISSUE DATE DESCRIPTION 0 03/02/2022 PERMIT 1 04/11/2022 PERMIT REVISIONS
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	FLOOR (DAB ON HARD SURFACE)	I-501 WB-402
	WALL BASE	PT-500
	WALLS - DIGITAL	PT-311 (NOTE 13)
	WALLS - PARTIAL HEIGHT	PT-500
	CEILING	ACT-4
	LIGHT FIXTURES- GENERAL	L-500
	SDB CHEST ROOM OR VAU	ĹŢ
	FLOOR	CPT-320
	WALL BASE	WB-402
	WALLS - GENERAL	PT-500
	CEILING	ACT-2
	LIGHT FIXTURES	L-2
	SDB VIEWING ROOM	0.007-000
	FLOOR	CP1-320
	WALL BASE	WB-402
		PT-500
		P1-501
		SS-300
		ACT-2
	LIGHT FIXTURES- GENERAL	L-2
	RESTROOMS (NOTE 6B)	
	FLOOR- FIELD	T-402
	WALL BASE	WB-402
	WALLS - GENERAL	PT-500
	WALL- VANITY	PT-501
	WALL TILE	T-402
	CEILING	ACT-2
	LIGHT FIXTURES- GENERAL	L-2
WOF	RK / PRINT / FILE / STORAGE ROOMS, LTOS AND CASH	ROOMS SEPARATE FROM
		CDT_300
	WALLBASE	WR-402
	WALLS	PT-500
	MILLWORK	PL-502/ PL-503
	CEILING	ACT-2
	LIGHT FIXTURES	L-2
	LAO / CASH ROOMS- OPEN TO MANUAL TRANS	ACTION AREAS
	FLOOR	CPT-321
	WALL BASE	WB-402
	WALLS	PT-500
	MILLWORK	PL-502/ PL-503
	CEILING	ACT-2
	LIGHT FIXTURES	L-2
	LOUNGE	1
	LOUNGE FLOOR	T-402
	LOUNGE FLOOR WALL BASE	T-402 WB-402
	LOUNGE FLOOR WALL BASE WALLS	T-402 WB-402 PT-500
	LOUNGE FLOOR WALL BASE WALLS MILLWORK COUNTER	T-402 WB-402 PT-500 PL-503
	LOUNGE FLOOR WALL BASE WALLS MILLWORK COUNTER MILLWORK	T-402 WB-402 PT-500 PL-503 PL-502
	LOUNGE FLOOR WALL BASE WALLS MILLWORK COUNTER MILLWORK CEILING LIGHT EIXTURES	T-402 WB-402 PT-500 PL-503 PL-502 ACT-2
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	LOUNGE FLOOR WALL BASE WALLS MILLWORK COUNTER MILLWORK CEILING LIGHT FIXTURES JANITOR / DATA / ELECTRICAL/ LADDER / A FLOOR	T-402 WB-402 PT-500 PL-503 PL-502 ACT-2 L-2 TM ROOMS SC (NOTE 14)
	LOUNGE FLOOR WALL BASE WALLS MILLWORK COUNTER MILLWORK CEILING LIGHT FIXTURES JANITOR / DATA / ELECTRICAL/ LADDER / A FLOOR WALL BASE	T-402 WB-402 PT-500 PL-503 PL-502 ACT-2 L-2 TM ROOMS SC (NOTE 14) WB-403
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1 2 3 4 5 6A 6B 7 8	LOUNGE FLOOR FLOOR WALL BASE WALLS MILLWORK COUNTER MILLWORK COUNTER MILLWORK CEILING LIGHT FIXTURES JANITOR / DATA / ELECTRICAL/ LADDER / A FLOOR WALL BASE WALLS (NOTE 8) FLOOR SINK WALLS (NOTE 6) LADDER AREA WALLS (NOTE 6) LADDER AREA WALLS (NOTE 6) CEILING LIGHT FIXTURES FINISH SCHEDULE NOTES: REFER TO INTERIOR ELEVATIONS, FLOOR PLANS, FIN REFLECTED CEILING PLANS- DRAWING NOTES SUPE PAINT ALL DOORS AND FRAMES TO MATCH ADJACEN FINISH UNLESS OTHERWISE NOTED. REFER TO FLOOR PLAN FOR DAB FLOOR FINISH PAINT FACES AND BOTTOMS OF GYPSUM BOARD BU ADJACENT WALLS UNLESS OTHERWISE NOTED. LAMINATE, FABRIC OR SOLID SURFACE PROVIDED AI FUNITURE VENDOR FRP FINISH EXTENTS: * LADDER AREA: ALL WALL SURFACES BEHIND AND V LADDER, SIDE WALLS WITHIN 12" OF EACH LADDERS SO F 48" AND WALLS OPPOSITE LADDER WITHIN 48", FC WALLS TO UNDERSIDE OF SCUTTLE FRAMING FINISH * FLOOR SINK AREA: SPLASH AREA AT EACH WALL SI SINK FROM THE TOP OF THE SINK TO THE UNDERSID SOF 48" AND WALLS OPPOSITE LADDER WITHIN 48", FC WALLS TO UNDERSIDE OF SCUTTLE FRAMING FINISH * FLOOR SINK AREA: SPLASH AREA TEACH WALL SI SINK FROM THE TOP OF THE SINK TO THE UNDERSID SINK FROM THE TOP OF THE SINK TO THE U	T-402 WB-402 PT-500 PL-503 PL-502 ACT-2 L-2 TM ROOMS SC (NOTE 14) WB-403 PT-500 FRP-1 FRP-1 FRP-1 ACT-2 U.N.O. L-2 U.N.O. L-2 U.N.O. L-2 U.N.O. L-2 U.N.O. L-2 U.N.O. L-2 U.N.O. CONTRACTOR IN SATIN WITHIN 12" EACH SIDE OF SIDE SCHEDULES. TWALL COLOR IN SATIN CONTRACTOR IN SATIN CONTRACTOR STATE STO MATCH SIDE OF SIDE FOR A MINIMUM WITH DR FULL HEIGHT OF ALL A. URFACE CONTACTING THE DE OF THE WATER HEATER FER TO INTERIOR
1 2 3 4 5 6A 6B 7 8 9	LOUNGE FLOOR WALL BASE WALLS MILLWORK COUNTER MILLWORK COUNTER MILLWORK CEILING LIGHT FIXTURES JANITOR / DATA / ELECTRICAL/ LADDER / A FLOOR WALL BASE WALLS (NOTE 8) FLOOR SINK WALLS (NOTE 6) CEILING LIGHT FIXTURES FINISH SCHEDULE NOTES: REFER TO INTERIOR ELEVATIONS, FLOOR PLANS, FIM REFLECTED CEILING PLANS- DRAWING NOTES SUPE PAINT ALL DOORS AND FRAMES TO MATCH ADJACEM FINISH UNLESS OTHERWISE NOTED. REFER TO FLOOR PLAN FOR DAB FLOOR FINISH PAINT FACES AND BOTTOMS OF GYPSUM BOARD BU ADJACENT WALLS UNLESS OTHERWISE NOTED. LAMINATE, FABRIC OR SOLID SURFACE PROVIDED AI FUNISH EXTENTS: * LADDER AREA: ALL WALL SURFACES BEHIND AND V LADDER, SIDE WALLS WITHIN 12" OF EACH LADDER SUPE FRY FINISH EXTENTS: * LADDER AREA: ALL WALL SURFACES BEHIND AND AND V LADDER, SIDE WALLS WITHIN 12" OF EACH LADDER SUPE FRY FINISH EXTENTS: * LADDER AREA: ALL WALL SURFACES BEHIND AND V LADDER, SIDE WALLS WITHIN 12" OF EACH LADDER SUPE FRY FINISH EXTENTS: * LADDER MAREA: SPLASH AREA AT EACH WALL SI SINK FROM THE TOP OF THE SINK TO THE UNDERSID SHELF ABOVE OR 6'-0", WHICHEVER IS GREATER- RE ELEVATIONS. RESTROOM WALL TILE FINISH EXTENTS: PROVIDE ONLY IF REQUIRED BY JURISDICTIONS HAV MINIMUM HEIGHT RECURERS, REGISTERS AND LOUVE SURFACE PAINT INTERIOR DIFFUSERS, REGISTERS AND LOUVE SURFACE PAINT LOBBY FACING PCS SOFFITS ACCENT PAINT W	T-402 WB-402 PT-500 PL-503 PL-502 ACT-2 L-2 TM ROOMS SC (NOTE 14) WB-403 PT-500 FRP-1 FRP-1 FRP-1 FRP-1 ACT-2 U.N.O. L-2 U.N.O. L-2 U.N.O. L-2 U.N.O. L-2 U.N.O. L-2 U.N.O. L-2 U.N.O. NISH PLANS AND RSEDE SCHEDULES. JT WALL COLOR IN SATIN KHEADS TO MATCH ND INSTALLED BY WITHIN 12" EACH SIDE OF SIDE FOR A MINIMUM WITH OR FULL HEIGHT OF ALL L. URFACE CONTACTING THE DE OF THE WATER HEATER FER TO INTERIOR

INSTALL FINISH CEILING GRID AS HIGH AS POSSIBLE IN UTILITY SPACES

DEMOUNTABLE PARTITION SYSTEMS: ARTWORK / MARKETING NOT TO BE INSTALLED ON WALL, UNLESS OTHERWISE NOTED. REFER TO PROTOTYPE SET

FOR ACCENT PAINT LOCATION(S) ACCENT WALLS: * EXTENTS: ACCENT PAINTS TO TERMINATE AT INTERIOR CORNER(S), UNLESS OTHERWISE NOTED.

* LOCATION: PLANS WITH GYPSUM WALL IN MEETING SPACES- REFER TO FLOOR PLAN AND ELEVATIONS

* FINISH: DARK ACCENT PAINT(S) REQUIRE LEVEL 5 FINISH

JANITOR ROOM SHALL UTILIZE TILE FLOORING, PER FINISH SCHEDULE WINDOW SHADE ENCLOSURES AND POCKETS:

* WINDOW SHADE HOUSINGS AND POCKETS INTEGRATED WITH GRID CEILING SYSTEMS SHALL BE PROVIDED BY THE CEILING GRID MANUFACTURER AND INSTALLED BY THE CEILING SYSTEM VENDOR. FINISH SHALL MATCH THE CEILING GRID.

* SURFACE-MOUNT WINDOW SHADE HOUSINGS SHALL BE PROVIDED BY THE WINDOW SHADE VENDOR. FINISH SHALL MATCH THE STOREFRONT GLAZING SYSTEM FINISH.

VENDOR CONTACTS

	CONTACT	PHONE	E-MAII
	CONTACT	708-344-1000	
		700-544-1000	
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	GENERAL SUPPORT		JPMCcontrols@gecurrent.com
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	TRAVIS LYNCH	216-212-7558	Travis.Lynch@gecurrent.com
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MADICO			
MAPES ARCHITECTURAL CANOPIES	CHAD FREEBURGER	888-273-1132	cfreeburger@mapes.com nationalaccounts@mapes.com
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WASTE WISE PRODUCTS, INC	PAUL DECONINCK	877-680-8361	
WEATHERMATIC	PARRY WEBB	972-9262193	Parry.webb@weathermatic.com
WILSONART	LOCAL DISTRIBUTOR		











UNCUSHIONED CARPET

CUSHIONED

CONCRETE (RESILIENT SIMILAR)

WB-403



FLOORING TRANSITION FINISHES

PALETTE

ALL

ALL

ALL

MATERIAL

CLEAR ANODIZED ALUMINUM CLEAR ANODIZED ALUMINUM











	DESIGNTEX CPT-321 MANUAL TRANSACTION AREA CARPET REGIONAL WINDOW SHADE FABRICS	GF-300 DISTRACTION BANDING MFR. DESIGNTEX	E (5% OPENNESS FACTOR) ROLL-A-SHADE	MANUAL ROLLING SHADE	WT-5 ALT	ERIALS SCHEDULE	INT. FIN. MATE
Image: manual part of the state of the s	#146504 MIDWEST REGION 3% OPENNESS FACTOR 5% OPENNESS FACTOR	PRODUCT #146504	SHEER WEAVE 2000	PRODUCT		PAINT	
	EMPIRE COLOR GRAVEL 104043 ILLINOIS X	FURNISHED BY EMPIRE	WHITE PLATINUM P05	SHADE COLOR		BEN JAMIN MOORE	
	APPLIED TO ALL FULL HEIGHT GLASS SIZE 25CM X 1M TILE INDIANA IOVA	APPLIED TO AI PARTIONS	REFER TO INTERIOR FINISH SCHEDULE	HOUSING		ULTRA SPEC SCUFF-X	PRODUCT
	BACKING CUSHIONBAC PLUS (ANTI-FATIGUE CUSHION) STOREFRONT- INSTALLED 30" AFF (44" TALL	NOTES STOREFRONT-	E (3% OPENNESS FACTOR)		WT-6	OLD NAVY #2063-10	PRODUCT NUMBER
	BAND) AREA RUGS MICHIGAN X	BAND)	SHEER WEAVE 2410 P14	PRODUCT		MATTE (484)	FINISH
	IRIM Discances IRIM IRIN ENDER LRAR -4 FLOATING CARPET- NAVY	IRIM WB-402 VINYI WALI BASE, STRAIGHT, AREAS W	PEARL GREY / OYSTER	SHADE COLOR			GENERAL WALL/ CEILIN
	JOHNSONITE INTERFACE MISSOURI	MFR. JOHNSONITE	REFER TO INTERIOR FINISH SCHEDULE	HOUSING			
	TIGHTLOCK HAPTIC HAPTIC A	PRODUCT TIGHTLOCK	E (3% OPENNESS FACTOR)	MANUAL ROLLING SHADE	WT-6 ALT	CLOUD WHITE #CC-40	COLOR
	20 CHARCOAL WG COLOR INDIGO NORTH DAKOTA X	COLOR 20 CHARCOAL	ROLL-A-SHADE	VENDOR / INSTALLER		EGGSHELL FINISH 524 (WALLS)	FINISH
	4 1/2" STRAIGHT (TOELESS) SIZE PER PLAN SOUTH DAKOTA X	PROFILE 4 1/2" STRAIGH	SHEER WEAVE 2410 P14			SATIN FINISH 526 (DOORS & FRAMES)	
	E- COVE- AREAS WITH EXPOSED SLAB	WB-403 VINYL WALL BASE- COVE- AREAS WITH	REFER TO INTERIOR FINISH SCHEDULE	HOUSING		GREY	ACCENT WALL PAINT- G
	Individual lase PRODUCT # EG-XX-H NORTHEAST REGION 3% OPENNESS FACTOR O O O O O O O O O O O O O O O O O O O	PRODUCT TRADITIONAL		DOUBLE-ROLLER SHADE	WT-7		MFR.
	20 CHARCOAL WG X X 20 CHARCOAL WG NOTES EDGE BANDING/RUG KIT PROVIDED BY	COLOR 20 CHARCOAL	LUMENOMICS	VENDOR / INSTALLER		HEARTHSTONE #1601	
	4" COVE	PROFILE 4" COVE	MBOR	PRODUCT		EGGSHELL FINISH 524 (WALLS)	FINISH
	MILLWORK SURFACES T-402 RESTROOM WALL & FLOOR TILE/ LOUNGE	MILLWORK SURFACES	WT-1 OR WT-2	FRONT SHADE		SATIN FINISH 526 (DOORS & FRAMES)	
	MFR. STONE SOURCE MITH FASED	DESCRIPTION 1/2" ACRYLIC S	INDIANA COATED GRAY (OPAQUE)	BACK SHADE		LL FINISHES	WAL
	PRODUCT CREOS	EDGES		HOUSING			
			REFER TO STANDARDS FOR GC	NOTES		RECORE 'BACCARAT'	PRODUCT
	SILVER BIRCH NATORAL PINISH NATORAL PINISH WINDOW SILLS & MILLWORK SURFACES SIZE 12" x 24" x 3/8"	USES WINDOW SILLS	TYPICAL AT ALL CONFERENCE ROOM	USES		BASALT #NA-4C-JPM501	COLOR
	GROUT LATICRETE PERMACOLOR SELECT GROUT #24	PL-502 MILLWORK LAMINATE	WINDOWS			53" ROLLED MATERIAL	WIDTH
	PLASTIC LAMINATE INATURAL GREY" ALABAMA X BEFES	DESCRIPTION PLASTIC LAMIN	ROLL-A-SHADE		WT-7 ALT		FIBERGLASS-REINFORC
Image <	WILSONART INC. ARKANSAS X NOTES MATCHING TILE WALL BASE AVAILABLE FOR NOTES NOTES	MFR. WILSONART	MBOR	PRODUCT			
	INATURAL RECON /990-38 RESTROOMS NORTH CAROLINA A MILLWORK CHECK DESK T-501 GENERAL EL OOR THE	LISES MILLWORK OF	MATCH TYPICAL FABRIC WITHIN BRANCH,	FRONT SHADE		84 IVORY	FINISH
	Index of the order of the o	PL-503 MILLWORK LAMINATE	WI-1 OR WT-2	BACK SHADE		JANITOR CLOSET / LADDER ROOM	LOCATIONS
	PLASTIC LAMINATE PRODUCT CREOS	DESCRIPTION PLASTIC LAMIN	REFER TO INTERIOR FINISH SCHEDULE	HOUSING		W TREATMENTS	WINDOW
Number dot not to the set of	WILSONART GEORGIA X	MFR. WILSONART	PRODUCT INSTALLED BY LUMENOMICS,	NOTES		HADE (5% OPENNESS FACTOR)	MOTORIZED ROLLING SH
Image: manual production of the second production of t	LECHE VESTA 4987K-07 X FINISH NATURAL FINISH	COLOR LECHE VESTA	REFER TO STANDARDS FOR GC COORDINATION WITH VENDOR			LUMENOMICS	VENDOR / INSTALLER
	BOH MILLWORK COUNTER SURFACE SIZE 30" X 30" x 3/8" LOUISIANA X	USES BOH MILLWOR	TYPICAL AT ALL CONFERENCE ROOM	USES		WHITE PLATINUM P05	SHADE COLOR
	ENGINEERED PLANK, RAKED PROFILE GROUT LATICRETE PERMACOLOR SELECT GROUT #24 MISSISSIPI A INATURAL GREY" MISSISSIPI X MISSISSIPI X		L FILM	FIELD-APPLIED SPANDRE	WT-8	REFER TO INTERIOR FINISH SCHEDULE	HOUSING
	PIONEER MILLWORKS GROUT JOINT 1/8"	MFR. PIONEER MILL	3M	VENDOR / INSTALLER		PRODUCT INSTALLED BY LUMENOMICS,	NOTES
	MODERN FARMHOUSE- CLEAN ASH TENESSEE TE CONCOURTS FLOOR DAILY (NON CURTORISS ASSA)	PRODUCT MODERN FARM	SCOTCHCAL GRAPHIC FILM	PRODUCT		COORDINATION WITH VENDOR	
	5 1/2" X 5/8", FCS MIX SC CONCRETE FLOOR PAINT (NON-CUSTOMER AREA) TEXAS X	SIZE 5 1/2" X 5/8", FC	3630-51, SILVER			HADE (5% OPENNESS FACTOR)	MOTORIZED ROLLING SH
Image de la construction de la cons	RAKED VIRGINIA VIRGINIA X PRODUCT TREAD-PLEX 100% ACRYLIC WATER BASED VIRGINIA X	TEXTURE RAKED	RETROFIT STORFFRONT GLAZING TO BLOCK	USES		ROLL-A-SHADE	VENDOR / INSTALLER
	CLEAR, POLY CLASS A FIRE RETARDANT FLOOR COATING X BOOTH MILLWORK COLOR DECK ORAX	LISES BOOTH MILLING	VISIBILITY			SHEEK WEAVE 2000 WHITE PLATINUM P05	SHADE COLOR
	MATCHING 5/8" PERIMETER TRIM IN WIDTHS MATCHING 5/8" PERIMETER TRIM IN WIDTHS DECK GRAY WEST REGION 3% OPENNESS FACTOR 5% OPENNESS FACTOR	NOTES MATCHING 5/8			WT-20	REFER TO INTERIOR FINISH SCHEDULE	HOUSING
	PER ELEVATIONS TO BE ORDERED THROUGH ACOUSTIC CEILING TILE AND GRID	PER ELEVATIO	MOBR INTERIOR SUN CONTROL FARRICS			PRODUCT INSTALLED BY ROLL-A-SHADE,	NOTES
	ACT-2 ACOUSTICAL CEILING (NON-CUSTOMER AREAS)	WD-601 VENEER PANELS	PHIFER SHEAR WEAVE 7100			REFER TO STANDARDS FOR GC COORDINATION WITH VENDOR	
	BROOKSIDE VENEERS MFR. USG COLORADO X STORE STOR	MFR. BROOKSIDE VI		SHADE COLOR		HADE (3% OPENNESS FACTOR)	MOTORIZED ROLLING SH
	10.84 UNFINISHED PRODUCT MARS CLIMAPLUS HIGH-NRC (ITEM NO. 87100) IDAHU X O Z	PRODUCT 10.84 UNFINISH	ANUDIZED ALUMINUM - PAINT TO MATCH ADJACENT FINISHES	ENCLOSURE COLOR		LUMENOMICS	VENDOR / INSTALLER
	PLANKED SLAVONY OAK COLOR WHITE CLEAR MATTE LIV INHIBITOR LOW VOC FLAT SIZE 24"v24"v7/8"	SPECIES PLANKED SLAV	ANODIZED ALUMINUM WITH GREY RUBBER	EXPOSED HEM BAR		SHEER WEAVE 2410 P14	
	ACRYLIC POLYURETHANE DIG POLYURETHANE DI		PRODUCT INSTALLED BY LUMENOMICS,	NOTES		REFER TO INTERIOR FINISH SCHEDUI F	HOUSING
	G.C. GRID CENTRICITEE DXT 9/16" EXPOSED TEE CREGON X GRID CENTRICITEE DXT 9/16" EXPOSED TEE CREGON C CENTRICITEE DXT 9/16" EXPOSED TEE C C CENTRICITEE C C CENTRICITEE DXT 9/16" EXPOSED TEE C C CENTRICITEE DXT 9/16" EXPOSED TEE C C C CENTRICITEE DXT 9/16" EXPOSED TEE C C CENTRICITEE C C C CENTRICITEE DXT 9/16" EXPOSED TEE C C C C C C C C C C C C C C C C C C	INSTALLER G.C.	REFER TO STANDARDS FOR GC COORDINATION WITH VENDOR			PRODUCT INSTALLED BY LUMENOMICS,	NOTES
	ARCHITECTURAL WALL MILLWORK SYSTEM UTAH X				WT-20 ALT	REFER TO STANDARDS FOR GC COORDINATION WITH VENDOR	
	REFER TO FINISH PLAN & ELEVATIONS ACT-4 ACOUSTICAL CEILING (CUSTOMER AREAS) WASHINGTON X	REFFR TO FIN	ROLL-A-SHADE	VENDOR / INSTALLER		HADE (3% OPENNESS FACTOR)	
	CARPET MFR. USG MISG MISG	CARPET	MOBR INTERIOR SUN CONTROL FABRICS PHIFER SHEAR WEAVE 7100	PRODUCT		ROLL-A-SHADE	VENDOR / INSTALLER
	PRODUCT MARS HIGH-NRC LOGIX CLIMAPLUS DEDECODMANICE EIELD AND CHANNEL DANIEL S	CPT-302 WALK-OFF MAT	WHITE P-02	SHADE COLOR		SHEER WEAVE 2410 P14	
	SBEMCO / MATTING BY DESIGN COLOR WHITE	MFR. SBEMCO / MAT	ANODIZED ALUMINUM - PAINT TO MATCH ADJACENT FINISHES	ENCLOSURE COLOR			HOUSING
	ULIKA DRY PCR PEI SIZE 48" x 48" x 1" FIELD PANELS (#80281) AND PLIMICE #620 48" x 48" x 1" FIELD PANELS (#80281) AND		ANODIZED ALUMINUM WITH GREY RUBBER	EXPOSED HEM BAR		PRODUCT INSTALLED BY ROLL-A-SHADE,	NOTES
	PER PLAN 4"x48"x1" CHANNEL PANELS (#80268) FDGE 9/16" FINELINE REVEL (FLR)	SIZE PER PLAN	BOTTOM SEAL PRODUCT INSTALLED BY ROLL-A-SHADE	NOTES		REFER TO STANDARDS FOR GC COORDINATION WITH VENDOR	
	THERMAL BONDED, BLOWN PVC, GRID GRID IDENTITEE DXI 9/16" TEE SYSTEM WITH 9/16"	BACKING THERMAL BON	REFER TO STANDARDS FOR GC			Λ	FROSTED WINDOW FILM
	ANTI-MICROBIAL PINK ISSUE DATE DESCRIPTION 0 03/02/2022 DEPMIT		ECIAL- CASE USE ONLY)	SPANDREL GLAZING (SPE	WT-11	LLUMAR	MFR.
	Bit is a state of the state	RIB DIRECTION	VIRACON	MFR.		NRM PS2	
Image:	DOOR 1 INTUMESCENT FLAME RETARDANT: FIREKOTE 100 AS MANUFACTURED	DOOR	VIRAPSAN	PRODUCT			USES
	INTERFACE BY UNIVERSAL FIRE SHIELD, CLEAR FINISH	GENERAL CARPET	MEDIUM GRAY			TO BANKER CUBICLES	
	HARMONIZE	PRODUCT HARMONIZE	OPTION FOR FIELD APPI IED TREATMENT				
NAL CALA M OLGONO ARCENT TO MERIOR TIMEN CONCLUL NAL CALA M OLGONO ARCENT TO MERIOR TIMEN CONCLUL NAL CALA M VILLEN ARMA GE VILLEN ARMA GE PRYOR & LOWENSTE PRYOR & LOWENSTE NUTERIO FINISH MATERIALI CONTENTS VILLEN ARMA GE VILLEN ARMA GE	GRAVEL 104043	COLOR GRAVEL 10404			L	SHEER WEAVE 2000	
INCOME QLANK QLANK QLANK INTERN VALUAR PRYOR & LOWENSTE INSTRUCTERS VALUE INTERNET MALE FAB ONTERNET MALE FAB ALANE FA	25CM X 1M TILE	SIZE 25CM X 1M TIL				WHITE PLATINUM P05	SHADE COLOR
PRYOR & LOWENSTE AUDULA-SEEN JU CONTENTS INTERIOR FINISH MATERIAL BACTORIAL WINDOW SALE FAR CONTENTS SILLET A3.3.2	GLASBAC	BACKING GLASBAC				REFER TO INTERIOR FINISH SCHEDULE	HOUSING
PRYOR & LOWENSTE REGIONAL WINDOW SHADD & A INTEROR FINSH MATERIAL REGIONAL WINDOW SHADE FAD 3FLET A3.3.2		PATTERN ASHLAR					
PRYOR & LOWENSTE WITGHTHE WESTON 2014 CONTENTS INTERIOR FINISH MATERIALS REGIONAL WINDOW SHADE FAB 02004/2022 SHEET A3.3.2							
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A3.3.2	02/04/2022						
A3.3.2	SHEET						
A3.3.2							
	A3.3.2						

					EUDNITU								D-401D	CONE_TABLE WITH X BASE (72X36)	EMPIRE	72X36	STEEL CASE/GORDON		QUARTER CUT OAK COMPOSITE, BLACK		
					FURINITU		- C		EUDNICH							12/00			X' BASE	-	
													D-401E	CONF. TABLE WITH X BASE(84X36)	EMPIRE	84X36	STEELCASE/GORDON		X' BASE		• •
										DOR DOR	DOR DOR	CONFERENCE	D-401F	CONF. TABLE WITH X BASE (96X48)	EMPIRE	96X48	STEELCASE/GORDON		QUARTER CUT OAK COMPOSITE, BLACK		• •
GROUP		DGL TAG	DESCRIPTION	VENDOR	VENDOR #	MANUFACTURER	MODEL	FINISH	GC GC	VEN CEN	VEN VEN		CC5	CONF CREDENZA W/ WOOD TOP	EMPIRE	CCREDDW	STEELCASE		QUARTER CUT OAK COMPOSITE		• •
									Ō	OUIP URN.	O O O		CC6	CONF CREDENZA W/ CORIAN TOP	EMPIRE	CCREDPWC/CCRE	STEELCASE		QUARTER CUT OAK COMPOSITE, SILVER		
													D-400A /			DDWC			BIRCH CORIAN		
		2AF	30" 2-DRAWER LATERAL FILE	EMPIRE	2A1	STEELCASE	900 SERIES	MF-1			•		DB-400	BANKER DESK, WOOD TOP, X BASE, (36R)	EMPIRE	36DIA	STEELCASE		HARDWARE		• •
		2AP		EMPIRE	2A1	STEELCASE	900 SERIES	MF-1					D-401A / DB-400	BANKER DESK, WOOD TOP, X BASE, (42R)	EMPIRE	42DIA	STEELCASE		QUARTER CUT OAK COMPOSITE, BLACK HARDWARE		• •
		2AVV 2BE	36" 2-DRAWER LATERAL FILE W/ WOOD TOP	EMPIRE	2A1W 2B1	STEELCASE	900 SERIES	MF-1					D-401B /	BANKER DESK. OVAL. WOOD TOP. X BASE. (54X36)	EMPIRE	54X36	STEELCASE		QUARTER CUT OAK COMPOSITE, BLACK		
		2BP	15" PEDESTAL BBF	EMPIRE	2B1	STEELCASE	900 SERIES	MF-1					DB-400								
		2BW	36" 2-DRAWER LATERAL FILE W/ WOOD TOP	EMPIRE	2B1W	STEELCASE	901 SERIES	OAK COMPOSITE		•			DB-400	BANKER DESK, OVAL, WOOD TOP, X BASE, (60x36)	EMPIRE	60X36	STEELCASE		HARDWARE		• •
		2CF	42" 2-DRAWER LATERAL FILE	EMPIRE	2C1	STEELCASE	900 SERIES	MF-1				PRIVATE	HAD-2	OLOGY HEIGHT ADJUSTABLE DESK	EMPIRE		STEELCASE	OLOGY	QUARTER CUT OAK COMPOSITE TOP, BLACK ADJUSTABLE BASE		• •
FILES		2CP	15" PEDESTAL BBF	EMPIRE	2C1	STEELCASE	900 SERIES	MF-1			•	CONSULTATION SPACE	WPD-6A	BANKER DESK PEDESTAL FILE- 18"	EMPIRE		STEELCASE	CUSTOM	QUARTER CUT OAK COMPOSITE, BLACK		
		2CW	42" 2-DRAWER LATERAL FILE W/ WOOD TOP	EMPIRE	2C1W	STEELCASE	901 SERIES	OAK COMPOSITE													
		3A	30" 3-DRAWER LATERAL FILE	EMPIRE	3A1	STEELCASE	900 SERIES	MF-1					WPD-6B	BANKER DESK PEDESTAL FILE- 30"	EMPIRE		STEELCASE	CUSTOM	HARDWARE		• •
		3D 3C	42" 3-DRAWER LATERAL FILE	EMPIRE	361	STEELCASE	900 SERIES	MF-1					WPD-7A	LATERAL FILE WITH CPU CABINET- MEDIUM OFFICE- 54"	EMPIRE		STEELCASE	CUSTOM	QUARTER CUT OAK COMPOSITE, BLACK HARDWARE		• •
		5A	30" 5-DRAWER LATERAL FILE	EMPIRE	5A1	STEELCASE	900 SERIES	MF-1					WPD-7B	LATERAL FILE WITH CPU CABINET- MEDIUM OFFICE-	EMPIRE		STEELCASE	CUSTOM	QUARTER CUT OAK COMPOSITE, BLACK		
		5B	36" 5-DRAWER LATERAL FILE	EMPIRE	5B1	STEELCASE	900 SERIES	MF-1			•			48"							
		5C	42" 5-DRAWER LATERAL FILE	EMPIRE	5C1	STEELCASE	900 SERIES	MF-1					WPD-8	IWS TALL PEDESTAL FILE	EMPIRE		STEELCASE	CUSTOM	HARDWARE		• •
		LC	6-TIER LOCKERS (15"D x 15"W x 72"H)	EMPIRE	FLC-11	PENCO		028 GRAY				DESK,	DS	BANKER DESK AND LAO CHAIR	EMPIRE	FS-11T	STEELCASE	THINK	BLACK, NON-NESTING, ADJUSTABLE ARMS		• •
		BT4-A	LOUNGE TABLE, 36" DIA.	EMPIRE	FT-14	STEELCASE	853600	ARCTIC WHITE				AND GUEST	СН 311	BINDU CONFERENCE CHAIR- LOW BACK ON	EMDIDE			BINDU	DESIGNTEX: BARK CLOTH-DARK		
LOUNGE		BI4-B	LOUNGE TABLE, 48° DIA.		F1-14 48	STEELCASE	853600					CHAIRS	CIPSTI	CASTERS			COALLOGL	DINDO	CHARCOAL, BLACK BASE ON CASTERS		• •
		BI4-C	LOUNGE CHAIR	EMPIRE	FS-14	TURNSTONE	TS37101	BLACK				SDB	CS-3	SDB CARREL / VIEWING ROOM	EMPIRE	TRADCARREL-C	STEELCASE	CARREL			
			TALL KITCHEN TRASH RECEPTACLE	CHASE BP GROUP)						•	000	CH-320	SDB ARMLESS CHAIR	EMPIRE		STEELCASE	FORMULA	CHARCOAL, BLACK SLED BASE		• •
			WIRE SHELVING - HANG TRACK			CLOSETMAID	282400, 282600,	WHITE					·	· · · · ·		·				 	
		-					283600														
JANITOR	'S		WIRE SHELVING - STANDARD			CLOSETMAID	280800, 281200,	WHITE	-												
CLOSET	/	WS-1					471400, 471700,														
STORAG	E		WIRE SHELVING - 12 SHELF (SUPERSLIDE)			CLOSETMAID	471800, 471900	WHITE													
		_				CLOSETMAID	5285300	WHITE													
		-	WIRE SHELVING - 10 SHELF (CLOSE MESH)				5285400	WHITE													
	(OT-20A	KIMBERLY TABLE- 36"DIA X 21"H	EMPIRE		STEELCASE	CUSTOM	PLANKED OAK													
		OT-20B	KIMBERLY TABLE- 30"DIA X 18"H	EMPIRE		STEELCASE	CUSTOM	PLANKED OAK													
	(OT-20C	KIMBERLY TABLE- 25"DIA X 15"H	EMPIRE		STEELCASE	CUSTOM	PLANKED OAK													
	(OT-20D	KIMBERLY TABLE- 20"DIA X 18"H	EMPIRE		STEELCASE	CUSTOM	PLANKED OAK													
		OT-21	GINGKO WIRE CAFÉ TABLE- 30" DIA	EMPIRE		DAVIS	GINGKO	PLANKED OAK TOP, BLACK BASE													
		CH-322	ALWAYS LOUNGE CHAIR	EMPIRE		NAUGHTONE	ALWAYS	GEIGER: IOTA- NAVY, BLACK BASE													
		CH-323	STYLEX SHARE SOFA- CURVED	EMPIRE		STYLEX	SHARE	MATTE LEGS		•	•										
LIVING RO	OM/	CH-324	STYLEX SHARE SOFA- CURVED 1/2 UPHOLSTERED, 1/2 VINYL	EMPIRE		STYLEX	SHARE	BLACK METAL SLED FRAME, BACK OF SOFA UPHOLSTERY: DESIGNTEX: BARKCLOTH-CHARCOAL, SEAT OF SOFA UPHOLSTERY: DESIGNTEX: SORANO-KEYSTONE		-	-										
LOBBY		CH-325	DRT CHAIR - ALWAYS CHAIR	EMPIRE		NAUGHTONE	ALWAYS	DESIGNTEX: EVERYWHERE TEXTURE-													
								STORM BLACK STRAP HANDI F. LIPHOI STERY	+ $+$ $+$												
		PF	WHIMSY POUF	EMPIRE		NATIONAL	WHIMSY	DESIGNTEX: SPANDAU-COGNAC													
		FS-2	STOOL-CAFÉ HEIGHT	EMPIRE		GORDON	FORMULA	BLACK MATTE FRAME, UPHOLSTERY: DESIGNTEX: SPANDAU- COGNAC													
		TP	TELEPRESENCE SIDE TABLE- LIVING ROOM	GTI		SALAMANDER	CUSTOM	BLACK PAINTED OAK													
		DRT	DINING ROOM TABLE (4 OR 6 PERSON)	CBBE	34X72 34X96	CBBE	CUSTOM	STAIN TO MATCH: OAK													
	c	R-2 3619	COFFEE CREDENZA, 36x19	EMPIRE	36X19	STEELCASE	TBD	OAK, SILVER BIRCH CORIAN													
	С	R-2 4819	COFFEE CREDENZA, 48x19	EMPIRE	48X19	STEELCASE	TBD	OAK, SILVER BIRCH CORIAN													
	C	R-2 6019	COFFEE CREDENZA, 60x19	EMPIRE	60X19	STEELCASE	TBD	OAK, SILVER BIRCH CORIAN													
		СТ	CAFÉ TABLE- HIGH TOP	EMPIRE	30D, 36D	COALESSE	MONTARA	WHITE TOP, BLACK BASE													
		WI	WORK TABLE- DESK HEIGHT	EMPIRE	36D	COALESSE	MONTARA	WHITE TOP, BLACK BASE													
		BT-2	BOOTH TABLE WITH POWER MODULE	EMPIRE	57X42, 57X48	COALESSE	LAGUNITAS	WHITE TOP, BLACK BASE													
MISC.		BB-1	BOOTH BENCH (QTY- 2 BENCHES)	CBBE		CBBE	CUSTOM	BACK OF BOOTH UPHOLSTERY: DESIGNTEX- WOOLISH: OSPREY, BOOTH SEAT UPHOLSTERY: DESIGNTEX: SORANO- KEYSTONE, BLACK FEET BACK OF BOOTH UPHOLSTERY:		•	•										
		BB-2	DROP IN BOOTH	EMPIRE	401/00 001/02	NATIONAL	FRINGE	DESIGNTEX- WOOLISH: OSPREY, BOOTH SEAT UPHOLSTERY: DESIGNTEX: SORANO- KEYSTONE, BLACK FEET		-	•										
		TD	TRAINING DESK	EMPIRE	48X30, 60X30, 72X30	COALESSE	AKIRA	ARUTIC WHITE SURFACE, BLACK BASE/CASTERS													
		тс	TRAINING CHAIR	EMPIRE		COALESSE	KART	BLACK SHELL/SEAT, BLACK													
		MST-3	MANUAL TRANSACTION MODULE - MST	EMPIRE	TC 1M	STEELCASE	CUSTOM	QUARTER CUT OAK COMPOSITE	+ $+$ $+$												
MANUAI	_	AST-3	MANUAL TRANSACTION MODULE - LEFT AST	EMPIRE	TC 1AL	STEELCASE	CUSTOM	QUARTER CUT OAK COMPOSITE													
TRANSACTI	ONS	AST-3	MANUAL TRANSACTION MODULE - RIGHT AST	EMPIRE	TC 1A	STEELCASE	CUSTOM	QUARTER CUT OAK COMPOSITE													
		ACR1	ACRYLIC RISER (1 PER AST)	CBBE	ACR1	CBBE	ACR1	CLEAR													





						BANK EQ	QUIPMEN	NT SCH	IEDULE	
TAG	DESCRIPTION	MANUFACTURER	PRODUCT (NOTE 3)	FINISH	WEIGHT (NOTE 1)	ELECTRICAL REQUIREMENTS	OWNER	GC	FURNIS ATM VENDOR	HE
	ATM, WALK-UP, EXTERIOR, THROUGH-WALL	HYOSUNG	MX 7800 TR		1522 LB	120V / 20A DED.				
	ATM SURROUND	SIGNAGE VENDOR	SUR-TTW-U-4		NA	120V / 3A				
	ATM, WALK-UP, INTERIOR,	HYOSUNG	MX 7800 TR		1522 LB	120V / 20A DED.				
BE-01B	ATM SURROUND	SIGNAGE VENDOR	SUR-TTW-U-4		NA	120V / 3A				┢
BE-02A	ATM, DRIVE-UP, ISLAND	HYOSUNG	MX 7800 IR		1918 LB	120V / 30A DED.				
	ATM, DRIVE-UP,	HYOSUNG	MX 7800 DR		1852 LB	120V / 20A DED.			•	
BE-02B		SIGNAGE VENDOR	SUR-TTW-U-4-TP		NA	1201//3A				-
			AC-225-SX + AC-1-H +							┢
BE-03	APRON CASE		M-7-UD	BLACK		NONE	_			
			HSKS103	BLACK	NA	NONE				┝
BE-04A	ACCESSIBLE TELLER	HAMILTON	S-604	BLACK	NA	NONE	-			
		DIEBOLD	SD-3-LL/RL	BLACK	NA	NONE				\vdash
BE-04B	PEDESTAL WITH LOCKER	HAMILTON	604	BLACK	NA	NONE	-			
		DIEBOLD	SU-4-2C	BLACK	NA	NONE				
DE-00	STANDARD TELLER PEDESTAL	HAMILTON	S-205	BLACK	NA	NONE				
BE-06	STANDARD TELLER PEDESTAL	DIEBOLD	SU-4-L2L/R2L	BLACK	NA	NONE	_			
	WITH LOCKERS	HAMILTON	S-207	BLACK	NA	NONE				╞
BE-07	TELLER BRG INTERCOM	PRINCIPLE USA	STS	S.S. / ALUM.	NA 0050 L D	120V / 1.6A	•			╞
BE-08		NCR	5285		2853 LB	120V / 10A				┝
BE-09	NOTUSED		 30001 TL_15		 1/95 I B	120\///4A				┢
BE-10	AFTER HOURS DEPOSITORY	HAMILTON	14-126 L/R	S.S. / TAUPE	1886 LB	120V / 4A	-			
		DIELBOLD	VAT 30 GX 89G- 13			120V / 20 A DED.				┢
BE-11	VACUUM AIR TUBE	DIEBOLD	42 - 15163			120V / 20 A DED.				┢
		HYOSUNG	MS500		970 LB	120V / 12 A DED.				
R⊑_12		GLORY	RBG-100		550 LB	120V / 6 A DED.				
DL-12	COIN DISPENSER	TELEQUIP	T-FLEX (DUAL CUPS)		12 LB	120V / 4A			HYOSUNG	
		GLORY	INSTACHANGE		10 LB	120V 1A			GLORY	L
	MAIN CASH CHEST	DIEBOLD	271-95 + 20530 + 20531 + (2) 20532 + (12) P-1500-CTK	BLACK	2922 LB	NONE				
BE-13	(FULL-HEIGHT)		14-123 L/R + (12) (HSCT310 +		254510	NONE				-
		HAMILTON	HSCT211 + HSCT303)	DLACK	3040 LB	NONE				
	MAIN CASH CHEST	DIEBOLD	271-80 + 20531 + 20532 + (6) P-1500-CTK	BLACK	1848 LB	NONE				
BE-13A	(HALF-HEIGHT)		14-127 L/R + (6) (HSCT310 +	BLACK	2444 LB	NONE				┢
			HSCT211 + HSCT303)	BEAGK						╞
BE-13B	MAIN CASH CHEST (HALF-HEIGHT -	DIEBOLD	271-80 + 20531 + 20536 + 40537 + 40534	BLACK	1580 LB	NONE				
	EVERYDAY EXPRESS)	HAMILTON	18-029 L/R	BLACK	2078 LB	NONE				
		DIEBOLD	478-98	BLACK	4739 LB MAX.	NONE				
BF-14	SAFE DEPOSIT CHEST WITH	HAMILTON (ALL 3X5)	14-124 L/R	BLACK	4870 LB	NONE				
	BOXES	HAMILTON			(100) 5		-			
		(MIXED)	14-125 L/R	BLACK	4430 LB	NONE				L
BE-15	ATM, WALK-UP, LOBBY (V2.5.5)	HYOSUNG	MX 8700 QT		2094 LB	120V / 12 A DED.			-	
	ATM, WALK-UP, LOBBY (V3.0)	HYOSUNG	MX 8200 QT		1432 LB	120V / 12 A DED.				
BE-15A			59920008200-5.5 (WALL)							-
	POWER TRANSITION BOX	HYOSUNG	NH-1808 (FREESTANDING)		NA	NONE				
55 455	ATM, WALK UP, MICRO	HYOSUNG	MX 8100 QTN		1050 LB (fully loaded)	120V / 12 A DED.				L
BE-12B	POWER TRANSITION BOX	HYOSUNG	59920008200-5.5 (WALL) NH-1808 (FREESTANDING)		NA	NONE			-	
BE-16	MICRO ATM KIOSK	HYOSUNG	CUSTOM	VARIES						┢
DE 47		DIEBOLD	CLASS 2 MODULAR 6-SIDE	NA	PANELS 123 LB/SF	NONE				F
BE-17		HAMILTON	TBD	NA	TBD	NONE				
		DIEBOLD	TITAN + 223-80 DAY GATE	S.S., ALUM. + GLASS	5250 LB	120V / 20A				
BE-18	VAULT DOOR WITH DAY GATE		TBD	S.S., ALUM. +	TBD	TBD	-			
				GLASS	1092 LB MAX					⊢
BE-19	VAULT SDB NESTS	DIEBOLD	LM SERIES	S.S.	PER STACK	NA				
		HAMILTON	TBD	TBD	TBD	TBD				\downarrow
BE-20	ATM V3.0 SIDE CAR	HYOSUNG	MX 8200 QT ACCESSORY UNIT						-	
BE-21	NOT USED									
BE-22	TELLER LINE SCANNER		LS150	NA	NA	120V / 2A				
	TELLER LINE RECEIPT		4500			4001				┝
BE-23	PRINTER	BANKJET	1500	NA	NA	120V	•			\vdash
BE-24	NOT USED									_
BE-25	UNDERCOUNTER CASH CHEST ('DAY SAFF')		271-30	BLACK	823 lbs	NONE				
	, - /		14-130 L/K 271-30 + (2) 20536 +	BLACK						┝
RF_25^	UNDERCOUNTER CASH	DIEBOLD	(4) P-1500-CTK	BLACK	905 LB	NONE				
	CHEST ('SMALL CASH CHEST')	HAMILTON	14-129 L/R + (3) (HSCT310 +	BLACK	1278 LB	NONE				
			DXE TL-15	DLACI	007/0					┝
BE-25B	UNDERCOUNTER CASH CHEST (EVERYDAY EXPRESS	DIEBOLD	11H X 17W X 20D	BLACK	267 LB	NONE				\vdash
0	BRANCHES ONLY)	HAMILTON	DEA TL-15 SMALLEST 11H X 17W X 20D	BLACK	387 LB	NONE				
BE-26	CURRENCY COUNTER	CUMMINS	JETSCAN	NA	NA	120V / 1A	•			\vdash
BE-27	TELLER PIN PAD	INGENICO	iPP320	BLACK	9.41 oz					
NOTES								<u> </u>		
1	ALL EQUIPMENT WEIGHTS ARE	LISTED AS EMPTY.								
2	B.O. SURROUND 7 1/4" AFF AT N	ICR UNIT, 12" AFF AT H	HYOSUNG UNIT.							
3	MODEL NUMBERS ARE PROVID	ED TO REFERENCE PR	RODUCT CUT SHEETS FOR SPA	CE PLANNING PU	RPOSES ONLY. PRIOR TO		IT, VERIFY MAK	E / MODEL W/	CHASE BRANC	;H P
4	VENDOR TO INCLUDE INTERNA	CABLE DOOR STOP	FOR FIELD-ADJUSTEMENT BY IN	NSTALLER TO STO	OP DOOR AS INDICATED I	N PLAN.				
5	INCLUDES CHEST MANUFACTU	RER'S LOCKERS.								_
6	INTERNAL BOX CONFIGURATION	N TO BE DETERMINED	BY CHASE BRANCH PLANNING	•						_
7	PROVIDE AMERICAN SECURITY	PRODUCT CO. ESL20	DAY LOCK AT ALL SDB CHESTS	IN ROOMS WITH	VIEWING CARRELS.					
8	PROVIDE MANUFACTURER'S KE	Y TRAYS AND MATCH	IING METAL CEILING AND WALL	CLOSURE PANEL	S AS INDICATED IN DRAV	VINGS.				
9	FOR USE BY EXCEPTION ONLY		ESS TELLER AND NO MAIN CASI	H SAFE. INCLUDE	ES INTERNAL TELLER CAS	SH DRAWER LOCKERS.				
10	A-SIDED CLASS IL OF OF OF CASE		UVVER TRANSITION BOX, AND S	IGIN PANEL POWE	ERED BY AIM.					
12										
13	NOT USED									
4.4										

D BY					INSTAL	LED BY				
SIGNAGE	BANK	FURN	011/1		ATM	SIGNAGE	BANK	FURN	NOTES	
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		OFF	ICE EQU	IPMENT S	CHEDULE							MISCELLANEO		JIPMENT	SCHEDU	JLE			
			-	FURNI	SHED BY	INSTAL	LED BY							F			INSTALLED BY		
TAG DESCRIPTION	MANUFACTURER	PRODUCT	FINISH	OWNER GC	VENDOR VENDOR	OWNER GC	VENDOR VENDOR NOTES	TAG	DESCRIPTION	MANU	JFACTURER	PRODUCT	FINISH	OWNER	GC VENDOR	VENDOR OWNER	GC VENDOR	VENDOR NOTES	
OE-01-BW MULTI-FUNCTIONAL DEVICE (MFD) - B/W	LEXMARK	24T7401	PUTTY	•		•		ME-01	I SHRED BIN					•		•		FURNISHED & INSTALLED BY CHASE FACILITIES GROUP	
SWIVEL BASE	LEXMARK	40G0855	BLACK	•				ME-02	2 DUAL BAND QUEUE ROPES AND STANC	CHIONS LAWRE	ENCE METALS	TENSABARRIER	BLACK		•		•	REFER TO FLOOR PLANS FOR QUANTITIES	
550 SHEET DRAWER	LEXMARK	40G0802	PUTTY	•		•			POST WITHOUT BELT	LAWRE	ENCE METALS	889 T2U-33-RCV	BLACK		•		•		
OE-01-C MULTI-FUNCTIONAL DEVICE (MFD) -	LEXMARK	42K0177	PUTTY	•		•		ME-03		סטמ	GMOCKETT	BRKIT1	BLACK		_		_	FURNITURE OR MILLWORK VENDOR TO	
SWIVEL BASE	LEXMARK	21K2501	BLACK									BIAATT					-	REQUIRED OPENING	
5.1" SPACER	LEXMARK	40G0854	PUTTY					ME-04	HALF ROUND WASTE RECEPTACLE	RUBBERMA	AID COMMERCIAL	FGSO8SSSPL	STAINLESS		•		•		
OE-02 NOT USED	LEXMARK	21K0567	PUTTY	•		•		ME-05		RUE	BBERMAID	FGS3ETBKPL	BLACK		•		•		COM. COM.
OE-03 MICR ST921 PRINTER	LEXMARK	K101-0010000		•		•		ME-06	6 MUSIC PLAYER AND SPEAKERS	MOG	OD MEDIA	PROFUSION IS	BLACK	•	-			LOCATE IN PRINT/FILE ROOM	1803 Iffing Iffing STRUCTIC
MICR ST921 LOCKING DRAWER	LEXMARK	ST921		•		•		-										'OR EQUAL' SUBSTITUTIONS PERMITTED BASED ON LOCAL AVAILABILITY. INSTALL	
OE-04 ADA MONITOR & KEYBOARD STAND	HUMANSCALE	QSLBHD	BLACK			-		ME-07	WIRELESS SDB SERVICE ENUNCIATOR	SYSTEM N	UTONE	LA223WH			-		•	1 PUSH BUTTON AT EACH SDB VIEWING STATION. DELIVER ENUNCIATOR TO	LESS, ESS, ton, rebio
OE-05 NOT USED																		CHASE REAL ESTATE PROJECT MANAGER AT PROJECT CLOSE-OUT. MOUNT	JSIN JSIN JSIN JSIN JSIN
OE-06 23" MONITOR AND STAND	HP	1FH48A8#ABA	SILVER	•		•	ALL MONITORS EXCEPT AST			DI OOKA		07551 MA 0755 //004050004	0.541/					BUTTON 44" A.F.F. INCLUDES KABA LOCK. G.C. TO PROVIDE	
PRIVACY SCREEN FILTER SOUND BAR	TARGUS TBD	AST127MGLZ TBD	 WHITE	•		•		ME-08	DUAL-CONTROL KEY BOX			STEELMASTER #201SP8801	GRAY					SOLID WOOD BLOCKING AS REQUIRED.	VVIR Stree 273-2 273-2 273-2 273-2 273-2 273-2 273-2 273-2 273-2
OE-07 TELLER CPU	HP	5GP85US#ABA	BLACK	•		•		ME-09A	A BULLETIN BOARD	Q	UARTET	QRT 303			-		•	OR EQUAL' SUBSTITUTIONS PERMITTED	ET ET ET ET ET ET ET ET ET EXCLUZER ANY DUI NESS, INC.
OE-08 WIRED KEYBOARD & MOUSE	LOGITECH	МК520	WHITE															24"H NATURAL CORK WITH OAK FRAME.	
OE-09 NOT USED OE-10 NOT USED												EMA 202			_			OR EQUAL' SUBSTITUTIONS PERMITTED	
OE-11 ACCESS TELLER MONITOR STAND	HUMANSCALE	QSBH30FNN	BLACK		•						UARTET	EIVIA 203			•		•	24"H ALUM. FRAME WITH PEN LEDGE AND	ш.
OE-12 DESK MONITOR ARM	HUMANSCALE	MFLEX	GRAY				■ POLE-MOUNT THROUGH GROMMET											EIGHT 28" X 2.5" PAINTED METAL STRIPS	SIGNED BY:
OE-13 NOT USED								ME-09C	C MAGNETIC STRIP BULLETIN BOARD	THRE	E BY THREE	31189 (8 REQUIRED)	NAVY BLUE		-		•	WITH INCLUDED SCREWS AND MAGNETS ADHERED TO WALL WITH 3M SCOTCH OR	OF MISCH
OE-14 23" MONITOR LESS STAND	TBD	TBD	WHITE				AST MONITOR											EQUAL PERMANENT DUUBLE-SIDED FOAM MOUNTING TAPE.	JOSHUA W.
PRIVACY SCREEN FILTER	TARGUS	AST127MGLZ		•		•			NEW YORK CITY RECYCLING COMPONE	ENTS								REQUIRED AT NEW YORK CITY PROJECTS ONLY	CARRELL CARRELL
OE-15 VDI TERMINAL	HP	4DT99UC#ABA-CUSTCHS	SILVER	•		•				WASTE W	VISE PRODUCTS	RC-1528-3-SS WITH CUSTOM						NYC PROJECTS ONLY- ONE REQD. AT EACH VESTIBULE AND LOBBY OR SIMILAR	NUMBER A-2018040323
VDI TERMINAL ADAPTER									ME-10A: TRIPLE-COMPARTMENT REFUS		INC.	LABELS			•		•	AREA; CUSTOM LABELS: PAPER, TRASH, METAL/GLASS/PLASTIC	A RCHITECT S
OE-16 WIRELESS KEYBOARD AND MOUSE	DELL/ LENOVO	580-ADTY	BLACK/SILV ER	•		•			ME-10B: RECYCLING INSTRUCTIONAL SI	SIGN	NA	NA	NA					NYC PROJECTS ONLY- REQUIRED AT FACH ME-10B TRIPLE-COMPARTMENT BIN	All the second s
OE-17 NOT USED														-					6/1/2022
OE-18 CPU/VDI UNDER SURFACE MOUNT	HUMANSCALE	CPU200	WHITE BR				UNDER SURFACE MOUNT WITH 360 DEGREE SWIVEL	ME-10	ME-10C: RECYCLING COMPLIANCE PLAC	CCARD	NA	NA	NA	-				REFUSE HAULER AND INSTALLED BY J.L.L.	
									ME-10D: 3-BIN SORTING STATION		NA	NA	NA	•				NYC PROJECTS ONLY; PROVIDED AND	111
OE-19 NOT USED																		NYC PROJECTS ONLY; PROVIDED AND	
OE-21 NOT USED									ME-10E: TRASH BIN LABELS		NA	NΔ	NA					APPLIED BY CHASE BRANCH PLANNING TO ALL NON-RECYCLING BINS;	81 X X
OE-22 NOT USED														-				HTTP://STORE.RECYCLEACROSSAMERICA. ORG/LABELS/TRASH-LABELS/TRASH-4X9.H	
OE-24A NOT USED								ME-11	I TABLET CHARGING CABINET	KEN	NSINGTON	K678625AMA-CUSTBO	BLACK	•				TML PROVIDED AND INSTALLED BY CHASE GTI	
OE-24B NOT USED																		KEY BOX IS PRE-PURCHASED BY OWNER.	
OE-24C NOT USED OE-25 NOT USED								ME-12		TE		RECESSED TRACCESS BOX	ВІАСК		_		_	VENDOR CONTACTS WITH SUBJECT LINE "RECESSED TRACCESS BOX REQUEST"	ωще
OE-26 NOT USED													DEAGR		-		•	INCLUDE PROJECT NAME, DELIVERY	
OE-27 NOT USED	01000																	BODY OF THE EMAIL	
OE-28 PHONE OE-28-V PHONE - VIDEO PHONE	CISCO	IP 7962 CP-8865-K9	BLACK			P		-											Х Ш Ž Ю
OE-29 CUSTOMER UNIVERSAL CHARGING	CHARGE TECH	CHW2-CHG	BLACK	•		•	ONLY USED IN BOOTHS												
STATION]											$\square \bigcirc \square$
OFFICE EQUIPMEN	T BY PROGRAM	MMATIC ELEMEN	NT				1 23" MONITOR AND STAND			1 23" MON									
PROGRAMMATIC ELEMENT						OE-06	1 PRIVACY SCREEN FILTER 1 SOUND BAR		0E-06	1 PRIVACY 1 SOUND E	AR								
ABBREV. DESCRIPTION TAG	QTY. DESCRIPTION	AND STAND				OE-15 -	1 VDI TERMINAL		CONFERENCE ROOM OE-12	1 MONITOR	R ARM (NOTE 1)								
MST MERCHANT SERVICES OE-06	1 PRIVACY SCRE	EEN FILTER			BOOTH	OE 16	1 VDI TERMINAL ADAPTER	-	MARKET CONFERENCE OE-15		MINAL (NOTE 3)								ISSUE DATE DESCRIPTION
PST PERSONAL SERVICES	1 SOUND BAR					OE-18	1 CPU/VDI UNDER SURFACE MOUNT		OE-16	1 WIRELES	SS KEYBOARD AND	MOUSE							0 03/02/2022 PERMIT
AT ACCESS TELLER OR OE-07	1 WIRED KEYBO	DARD & MOUSE				OE-28	1 PHONE		0E-27	1 PLATFOR	RM STATION WIRED	10-KEY KEYPAD							I U4/II/2U22 PERMII REVISIONS
OE-10	1 WIRE MANAGE					OE-29	1 CUSTOMER UNIVERSAL CHARGING STATION 1 23" MONITOR		OE-28	1 PHONE 1 23" MON	IITOR AND STAND								
OE-04	1 ADA MONITOR	R & KEYBOARD STAND (NOTE 1)				OE-06	1 PRIVACY SCREEN FILTER		OE-06	1 PRIVACY	Y SCREEN FILTER								
OE-07	1 WIRED KEYBO	DARD & MOUSE					1 SOUND BAR			1 SOUND E	BAR								
AST ACCESSIBLE SERVICES OE-10	1 WIRE MANAGE			ccs			1 VDI TERMINAL	IWS	INDIVIDUAL WORK SPACE OE-15	1 VDITER									
OE-14	1 23" MONITOR - 1 PRIVACY SCRE	EEN FILTER			OF AGE	0E-15	1 VDI TERMINAL ADAPTER		OE-16	1 WIRELES	SS KEYBOARD AND	MOUSE							
	1 SOUND BAR					OE-16 OE-27	WIRELESS KEYBOARD AND MOUSE PLATEORM STATION WIRED 10-KEY KEYPAD		OE-27	1 PLATFOF	RM STATION WIRED	10-KEY KEYPAD							
OE-05	1 KEYBOARD TR					OE-28	1 PHONE	NOTES											
OE-06	1 PRIVACY SCRE	EEN FILTER					1 23" MONITOR	1.	MONITOR ARMS AND ADA MONITOR AND OTHER SCHEDULED EQUIPMENT PROVID) KEYBOARD STAND PRO' DED BY CHASE GLOBAL T	VIDED AND INSTALL	ED BY FURNITURE VENDOR. ASTRUCTURE (GTI).	ALL						
LAO LEAD ASSOCIATE OPERATIONS	1 SOUND BAR					UE-06	1 SOUND BAR	2.	IF SPACE IS BEING DESIGNED TO ACCOM	MMODATE A VIDEO ADVIS	Sor, Managing Dir	ECTOR OR REGIONAL DIREC	TOR,						PRYOK & LOWENSTEIN
OE-07	1 TELLER CPU 1 WIRED KEVRO	DARD & MOUSF				OE-12	1 MONITOR ARM (NOTES 1, 2, 4)	3.	IF TABLE IS CENTERED IN ROOM AND FLO	OOR POWER/DATA CONN	NECTIONS ARE PRO	VIDED, ADD CPU/VDI UNDER-	SURFACE						
OE-10	1 WIRE MANAGE	EMENT KIT		PCS	SPACE	OE-15	1 VDI TERMINAL 1 VDI TERMINAL ADAPTER	4.	ONE OFFICE TO RECEIVE 2-ARM MONITO	DR STAND, LOCATION TO	BE DETERMINED BY	Y BRANCH PLANNING MANAG	ER						CONTENTS
DRT DINING ROOM TABLE OE-29	1 CUSTOMER UN	NIVERSAL CHARGING STATION				OE-16	1 WIRELESS KEYBOARD AND MOUSE		DURING TURNOVER.										OFFICE EQUIPMENT BY
						OE-27	1 PLATFORM STATION WIRED 10-KEY KEYPAD]											PROGRAMMATIC ELEMENT
						OE-28	1 PHONE	J											OFFICE EQUIPMENT SCHEDULE
																			MISCELLANEOUS EQUIPMENT SCHEDULE
																			02/04/2022
																			SHEET
																			A3.4.3

					PLUMB	NGEIXIURESCHE				
ТА	AG	DESCRIPTION	COMP	ONENT	MANUFACTURER	MODEL	FI	NISH		NOTES
PF-	WC	FLOOR-MOUNT WATER CLOSE	T WATER CLOSET		KOHLER	K-3519/3519-RA HIGHLINE	WHITE	/CHROME		
			OPEN-FRONT SE	AT	KOHLER	K-4650	W	HITE		
			SUPPLY				POL. (CHROME	3/8" NPT RIC	GHT ANGLE VALVE WITH LOOSE KEY STOP AND ANNEALED
							10/		CHROME-PL	
PF-L	LAV	WALL-MOUNT LAVATORY				2/11 015				
						1 1/4"	POL.		WITH ESCU	
			FAUCET		SLOAN	FAF-200-P-ISM	POL (WITH AC PC	
			SUPPLIES			3/8"	POL. (CHROME	POL. CHRO	A FLEX TUBE SUPPLIES, ESCUTCHEONS AND KEY STOPS
			LAV GUARD		TRUEBRO	LAV GUARD 2 EZ-SERIES	W	/HITE	COVER TAIL	PIECE. P-TRAP. SUPPLIES AND VALVES
			SOAP DISPENSE	R					REFER TO T	OILET ACCESSORIES SCHEDULE
PF-S	SINK	LOUNGE SINK	SINGLE-BOWL S	INK	ELKAY	LRAD 202255-MR2	STAINLE	ESS STEEL		
			STRAINER			3 1/2"	STAINLE	ESS STEEL		
			P-TRAP				F	PVC		
			FAUCET		ELKAY	LK3000CR	POL. (CHROME	INSTALL OP	TIONAL 2.2GPM FLOW REGULATOR
			SUPPLIES			3/8"			FLEX HOSE	SUPPLIES AND POL. CHROME KEY STOPS
PF-N	MOP	MOP SINK	FLOOR SINK		MUSTEE	63M	W	/HITE		
			FAUCET		MUSTEE	63.600A	СН	ROME	WITH INTEG	RAL VACUUM BREAKERS
			HOSE AND BRAC	KET	MUSTEE	65.700	STAIN	ESS STL.	SHORTEN H	OSE TO PROVIDE AIR GAP
			MOP HANGER		MUSTEE	65.600	STAIN	LESS STL.		
			SPLASHES		BY G.C.	FRP-1	F	FRP	REFER TO I	NTERIOR ELEVATIONS
PF-'	WH	DOMESTIC WATER HEATER	WATER HEATER		A.O. SMITH	EJC-10			OR EQUAL 1	0-GAL ELEC. WATER HEATER, 6kW ELEMENT, 240V/1PH ESS ELECTRIC OR GAS-FIRED UNIT. SIZED AS REOD
			WALL-MT. BRAC	KET / DRIP PAN	HOLDRITE	40 SWHP-W			MAINTAIN 8	1" MIN. HEADROOM CLEARANCE TO FLOOR BELOW
PF-	-DF	DRINKING FOUNTAIN		-	ELKAY	EZSTL8WSSK	STAINLE	ESS STEEL		LE FILLER
PF-V	NHB	WALL HOSE BIB			WOODFORD	B65	СН	ROME	18" ABOVE 1	.O. FND.
PF-F	RHB	ROOF HOSE BIB			WOODFORD	RHY1-MS	PRE-F	IN. PAINT		
PF-	-FD	FLOOR DRAIN	FLOOR DRAIN		ZURN	415S-Y-P	NICKEL	BRONZE	W/ SEDIMEN	IT BUCKET
			TRAP SEAL		JAY R. SMITH	2692-04				
PF-F	RD1	ROOF DRAIN- LARGE	-		ZURN	ZC100-DP-VP	CAS	T IRON	PROVIDE PE	RIMETER BLOCKING TO RAISE DECK PLATE TO ROOFING LEVEL;
	200				71101	7101 / 7105 / 7 105 / 5				ECK MOUNTING PLATE AND SECURED STRAINER
			-			Z 101 / Z 105 / Z-105-45				
Pr-V	ODT	ROOF OVERFLOW-LARGE	-		ZURN	20100-09-76-09	CAS	IIKUN	INCLUDES D	ECK MOUNTING PLATE, SECURED STRAINER AND OVERFLOW DAM
PF-(OD2	ROOF OVERFLOW- SMALL	-		ZURN	Z-181	BR	ONZE	SET 2" ABO	/E DECK
PF-I	DN1	DOWNSPOUT NOZZLE	-		ZURN	ZANB199-SS 4"	NICKEL	BRONZE	4" DIA., WITI	H REMOVABLE SCREEN
PF-G	GCO	GROUND CLEAN-OUT	-	-	ZURN	Z1440/Z1475	STAINLE	ESS STEEL		
PF-V	NCO	WALL CLEAN-OUT	-		ZURN	Z1446	STAINLE	ESS STEEL		
PF-F	FCO	FLOOR CLEAN-OUT	-		ZURN	ZS1400	STAINLE	ESS STEEL		
						IVNUCE CUTEDI				
					APPL	IANCE SCHED	JLE			1
			MANUFACTURER	MODEL	APPL		JLE SHED BY	INSTAL	LED BY	
TAG		DESCRIPTION	MANUFACTURER (OR EQUAL)	MODEL (OR EQUAL)	REQUIREMENTS	IANCE SCHEDU FURNISH OWNER	JLE SHED BY GC	INSTAL OWNER	LED BY GC	NOTES
TAG A-01	2.2 CU. F	DESCRIPTION FT. MICROWAVE	MANUFACTURER (OR EQUAL) GE	MODEL (OR EQUAL) PES7227DLBE	APPL REQUIREMENTS 3 ADA-COMPLIANT	IANCE SCHEDU FURNIS FINISH OWNER BLACK	JLE SHED BY GC •	INSTAL OWNER	LED BY GC	NOTES ALT. 1.4+ CF ADA-COMPLIANT SUBSTITUTIONS PERMITTED
TAG A-01 A-02	2.2 CU. F	DESCRIPTION FT. MICROWAVE ED	MANUFACTURER (OR EQUAL) GE	MODEL (OR EQUAL) PES7227DLBE	APPL REQUIREMENTS ADA-COMPLIANT ADA COMPLIANT	IANCE SCHEDU FURNIS FINISH OWNER BLACK 	JLE SHED BY GC 	INSTAL OWNER 	LED BY GC 	NOTES ALT. 1.4+ CF ADA-COMPLIANT SUBSTITUTIONS PERMITTED
TAG A-01 A-02 A-03	2.2 CU. F NOT USE FULL-SIZ	DESCRIPTION FT. MICROWAVE ED ZE REFRIGERATOR	MANUFACTURER (OR EQUAL) GE FRIGIDAIRE	MODEL (OR EQUAL) PES7227DLBE FFHT1814QB	APPL REQUIREMENTS ADA-COMPLIANT ADA-COMPLIANT ENERGY STAR	IANCE SCHEDU FINISH OWNER BLACK BLACK BLACK	JLE SHED BY GC 	INSTAL OWNER 	LED BY GC 	NOTES ALT. 1.4+ CF ADA-COMPLIANT SUBSTITUTIONS PERMITTED ALT 18+ CF TOP-FREEZER SUBSTITUTIONS PERMITTED
TAG A-01 A-02 A-03	2.2 CU. F NOT USE FULL-SIZ	DESCRIPTION FT. MICROWAVE ED ZE REFRIGERATOR	MANUFACTURER (OR EQUAL) GE FRIGIDAIRE WHIRLPOOL	MODEL (OR EQUAL) PES7227DLBE FFHT1814QB WRT541SZDE	APPL REQUIREMENTS ADA-COMPLIANT ADA-COMPLIANT ENERGY STAR	IANCE SCHEDU FURNIS FINISH OWNER BLACK BLACK	JLE SHED BY GC • •	INSTAL OWNER 	LED BY GC 	NOTES ALT. 1.4+ CF ADA-COMPLIANT SUBSTITUTIONS PERMITTED ALT 18+ CF TOP-FREEZER SUBSTITUTIONS PERMITTED
TAG A-01 A-02 A-03 A-04	2.2 CU. F NOT USE FULL-SIZ UNDE	DESCRIPTION FT. MICROWAVE ED ZE REFRIGERATOR ERCOUNTER REFRIGERATOR	MANUFACTURER (OR EQUAL) GE FRIGIDAIRE WHIRLPOOL WESTINGHOUSE - COMMERCIAL COOL	MODEL (OR EQUAL) PES7227DLBB FFHT1814QB WRT541SZDE CCR45B	APPL REQUIREMENTS ADA-COMPLIANT ADA-COMPLIANT ENERGY STAR ADA-COMPLIANT	IANCE SCHEDU FURNIS FINISH OWNER BLACK BLACK BLACK	JLE SHED BY GC • •	INSTAL OWNER 	LED BY GC P	NOTES ALT. 1.4+ CF ADA-COMPLIANT SUBSTITUTIONS PERMITTED ALT 18+ CF TOP-FREEZER SUBSTITUTIONS PERMITTED ALT. 4.4+ +CF <32.5"H SUBSTITUTIONS PERMITTED
TAG A-01 A-02 A-03 A-04	2.2 CU. F NOT USE FULL-SIZ UNDE	DESCRIPTION FT. MICROWAVE ED ZE REFRIGERATOR ERCOUNTER REFRIGERATOR	MANUFACTURER (OR EQUAL) GE FRIGIDAIRE WHIRLPOOL WESTINGHOUSE - COMMERCIAL COOL	MODEL (OR EQUAL) PES7227DLBE FFHT1814QB WRT541SZDE CCR45B	APPL REQUIREMENTS ADA-COMPLIANT ADA-COMPLIANT ENERGY STAR ADA-COMPLIANT ADA-COMPLIANT	IANCE SCHEDU FURNIS FINISH OWNER BLACK BLACK BLACK	JLE SHED BY GC • •	INSTAL OWNER	LED BY GC P	NOTES ALT. 1.4+ CF ADA-COMPLIANT SUBSTITUTIONS PERMITTED ALT 18+ CF TOP-FREEZER SUBSTITUTIONS PERMITTED ALT. 4.4+ +CF <32.5"H SUBSTITUTIONS PERMITTED
TAG A-01 A-02 A-03 A-04	2.2 CU. F NOT USE FULL-SIZ UNDE	DESCRIPTION FT. MICROWAVE ED ZE REFRIGERATOR ERCOUNTER REFRIGERATOR	MANUFACTURER (OR EQUAL) GE FRIGIDAIRE WHIRLPOOL WESTINGHOUSE - COMMERCIAL COOL IGLOO	MODEL (OR EQUAL) PES7227DLBE FFHT1814QB WRT541SZDE CCR45B FR464	APPL REQUIREMENTS ADA-COMPLIANT ADA-COMPLIANT ENERGY STAR ADA-COMPLIANT ADA-COMPLIANT ADA-COMPLIANT	IANCE SCHEDU FINISH OWNER BLACK BLACK BLACK BLACK WH OR SS	JLE SHED BY GC 	INSTAL OWNER	LED BY GC P	NOTES ALT. 1.4+ CF ADA-COMPLIANT SUBSTITUTIONS PERMITTED ALT 18+ CF TOP-FREEZER SUBSTITUTIONS PERMITTED ALT. 4.4+ +CF <32.5"H SUBSTITUTIONS PERMITTED
TAG A-01 A-02 A-03 A-04	2.2 CU. F NOT USE FULL-SIZ UNDE	DESCRIPTION FT. MICROWAVE ED ZE REFRIGERATOR ERCOUNTER REFRIGERATOR	MANUFACTURER (OR EQUAL) GE FRIGIDAIRE WHIRLPOOL WESTINGHOUSE - COMMERCIAL COOL IGLOO HAIER	MODEL (OR EQUAL) PES7227DLBE FFHT1814QB WRT541SZDE CCR45B FR464 HC46SF10SV	APPL REQUIREMENTS ADA-COMPLIANT ADA-COMPLIANT ADA-COMPLIANT ADA-COMPLIANT ADA-COMPLIANT ADA-COMPLIANT ADA-COMPLIANT	IANCE SCHEDU	JLE SHED BY GC 	INSTAL OWNER	LED BY GC P	NOTES ALT. 1.4+ CF ADA-COMPLIANT SUBSTITUTIONS PERMITTED ALT 18+ CF TOP-FREEZER SUBSTITUTIONS PERMITTED ALT. 4.4+ +CF <32.5"H SUBSTITUTIONS PERMITTED
TAG A-01 A-02 A-03 A-04 A-05	2.2 CU. F NOT USE FULL-SIZ UNDE	DESCRIPTION FT. MICROWAVE ED ZE REFRIGERATOR ERCOUNTER REFRIGERATOR ED	MANUFACTURER (OR EQUAL) GE FRIGIDAIRE WHIRLPOOL WESTINGHOUSE - COMMERCIAL COOL IGLOO HAIER 	MODEL (OR EQUAL) PES7227DLBE FFHT1814QB WRT541SZDE CCR45B CCR45B FR464 HC46SF10SV 	APPL REQUIREMENTS ADA-COMPLIANT ADA-COMPLIANT ADA-COMPLIANT ADA-COMPLIANT ADA-COMPLIANT ADA-COMPLIANT 	IANCE SCHEDU	JLE SHED BY GC • • • •	INSTAL OWNER	LED BY GC •	NOTES ALT. 1.4+ CF ADA-COMPLIANT SUBSTITUTIONS PERMITTED ALT 18+ CF TOP-FREEZER SUBSTITUTIONS PERMITTED ALT. 4.4+ +CF <32.5"H SUBSTITUTIONS PERMITTED
TAG A-01 A-02 A-03 A-04 A-05 A-06	2.2 CU. F NOT USE FULL-SIZ UNDE NOT USE COFFEE	DESCRIPTION FT. MICROWAVE ED ZE REFRIGERATOR ERCOUNTER REFRIGERATOR ED ED	MANUFACTURER (OR EQUAL) GE FRIGIDAIRE WHIRLPOOL WESTINGHOUSE - COMMERCIAL COOL IGLOO HAIER BY OWNER	MODEL (OR EQUAL) PES7227DLBE FFHT1814QB WRT541SZDE CCR45B CCR45B FR464 HC46SF10SV 	APPL REQUIREMENTS 3 ADA-COMPLIANT ADA-COMPLIANT ADA-COMPLIANT ADA-COMPLIANT ADA-COMPLIANT ADA-COMPLIANT ADA-COMPLIANT ADA-COMPLIANT	IANCE SCHEDU FINISH OWNER BLACK BLACK BLACK BLACK WH OR SS SS 	JLE SHED BY GC • • • • • •	INSTAL OWNER	LED BY GC 	NOTES ALT. 1.4+ CF ADA-COMPLIANT SUBSTITUTIONS PERMITTED ALT 18+ CF TOP-FREEZER SUBSTITUTIONS PERMITTED ALT. 4.4+ +CF <32.5"H SUBSTITUTIONS PERMITTED
TAG A-01 A-02 A-03 A-04 A-05 A-06 A-07	2.2 CU. F NOT USE FULL-SIZ UNDE NOT USE COFFEE	DESCRIPTION FT. MICROWAVE ED ZE REFRIGERATOR ERCOUNTER REFRIGERATOR ED ED ED MAKER PURIFIER	MANUFACTURER (OR EQUAL) GE FRIGIDAIRE WHIRLPOOL WESTINGHOUSE - COMMERCIAL COOL IGLOO HAIER BY OWNER BY OWNER	MODEL (OR EQUAL) PES7227DLBB FFHT1814QB WRT541SZDB CCR45B CCR45B FR464 HC46SF10SV 	APPL REQUIREMENTS 3 ADA-COMPLIANT ADA-COMPLIANT ADA-COMPLIANT ADA-COMPLIANT ADA-COMPLIANT ADA-COMPLIANT ADA-COMPLIANT	IANCE SCHEDU FURNIS FINISH OWNER BLACK BLACK BLACK BLACK WH OR SS SS 	JLE SHED BY GC • • • • • • • • • • •	INSTAL OWNER	LED BY GC 	NOTES ALT. 1.4+ CF ADA-COMPLIANT SUBSTITUTIONS PERMITTED ALT 18+ CF TOP-FREEZER SUBSTITUTIONS PERMITTED ALT. 4.4+ +CF <32.5"H SUBSTITUTIONS PERMITTED
TAG A-01 A-02 A-03 A-04 A-05 A-06 A-07	2.2 CU. F NOT USE FULL-SIZ UNDE NOT USE COFFEE WATER I	DESCRIPTION FT. MICROWAVE ED ZE REFRIGERATOR ERCOUNTER REFRIGERATOR ED ED MAKER PURIFIER	MANUFACTURER (OR EQUAL) GE FRIGIDAIRE WHIRLPOOL WESTINGHOUSE - COMMERCIAL COOL IGLOO HAIER BY OWNER BY OWNER	MODEL (OR EQUAL) PES7227DLBB FFHT1814QB WRT541SZDB CCR45B CCR45B FR464 HC46SF10SV 	APPL REQUIREMENTS 3 ADA-COMPLIANT ADA-COMPLIANT ADA-COMPLIANT ADA-COMPLIANT ADA-COMPLIANT ADA-COMPLIANT ADA-COMPLIANT	IANCE SCHEDU FINISH FURNIS BLACK	JLE SHED BY GC • • • • • • • • • • •	INSTAL OWNER	LED BY GC 	NOTES ALT. 1.4+ CF ADA-COMPLIANT SUBSTITUTIONS PERMITTED ALT 18+ CF TOP-FREEZER SUBSTITUTIONS PERMITTED ALT. 4.4+ +CF <32.5"H SUBSTITUTIONS PERMITTED
TAG A-01 A-02 A-03 A-04 A-05 A-06 A-07	2.2 CU. F NOT USE FULL-SIZ UNDE NOT USE COFFEE	DESCRIPTION FT. MICROWAVE ED ZE REFRIGERATOR ERCOUNTER REFRIGERATOR ED ED EMAKER PURIFIER	MANUFACTURER (OR EQUAL) GE FRIGIDAIRE WHIRLPOOL WESTINGHOUSE - COMMERCIAL COOL IGLOO HAIER BY OWNER BY OWNER	MODEL (OR EQUAL) PES7227DLBE FFHT1814QB WRT541SZDE CCR45B CCR45B FR464 HC46SF10SV 	APPL REQUIREMENTS ADA-COMPLIANT ADA-COMPLIANT ADA-COMPLIANT ADA-COMPLIANT ADA-COMPLIANT ADA-COMPLIANT ADA-COMPLIANT	IANCE SCHEDI FINISH FURNIS BLACK BLACK BLACK BLACK BLACK WH OR SS	JLE SHED BY GC 	INSTAL OWNER	LED BY GC 	NOTES ALT. 1.4+ CF ADA-COMPLIANT SUBSTITUTIONS PERMITTED ALT 18+ CF TOP-FREEZER SUBSTITUTIONS PERMITTED ALT. 4.4+ +CF <32.5"H SUBSTITUTIONS PERMITTED
TAG A-01 A-02 A-03 A-04 A-05 A-06 A-07	2.2 CU. F NOT USE FULL-SIZ UNDE NOT USE COFFEE	DESCRIPTION FT. MICROWAVE ED ZE REFRIGERATOR ERCOUNTER REFRIGERATOR ED ED MAKER PURIFIER	MANUFACTURER (OR EQUAL) GE FRIGIDAIRE WHIRLPOOL WESTINGHOUSE - COMMERCIAL COOL IGLOO HAIER BY OWNER BY OWNER	MODEL (OR EQUAL) PES7227DLBE FFHT1814QB WRT541SZDE CCR45B FR464 HC46SF10SV 	ADA-COMPLIANT ADA-COMPLIANT ADA-COMPLIANT ADA-COMPLIANT ADA-COMPLIANT ADA-COMPLIANT ADA-COMPLIANT 	IANCE SCHEDU FINISH FURNIS BLACK BLACK BLACK BLACK BLACK BLACK BLACK WH OR SS SS BLACK BLACK<	JLE SHED BY GC • • • • • • •	INSTAL OWNER	LED BY GC 	NOTES ALT. 1.4+ CF ADA-COMPLIANT SUBSTITUTIONS PERMITTED ALT 18+ CF TOP-FREEZER SUBSTITUTIONS PERMITTED ALT. 4.4+ +CF <32.5"H SUBSTITUTIONS PERMITTED
TAG A-01 A-02 A-03 A-04 A-05 A-06 A-07	2.2 CU. F NOT USE FULL-SIZ UNDE NOT USE COFFEE WATER F	DESCRIPTION FT. MICROWAVE ED ZE REFRIGERATOR ERCOUNTER REFRIGERATOR ED ED MAKER PURIFIER	MANUFACTURER (OR EQUAL) GE GE FRIGIDAIRE WHIRLPOOL WESTINGHOUSE - COMMERCIAL COOL IGLOO HAIER BY OWNER BY OWNER BY OWNER	MODEL (OR EQUAL) PES7227DLBE FFHT1814QB WRT541SZDE CCR45B FR464 HC46SF10SV 	ADA-COMPLIANT ADA-COMPLIANT ADA-COMPLIANT ADA-COMPLIANT ADA-COMPLIANT ADA-COMPLIANT ADA-COMPLIANT 	IANCE SCHEDU	JLE SHED BY GC I I I I I I I I I I I I I I I I I I	INSTAL OWNER	LED BY GC 	NOTES ALT. 1.4+ CF ADA-COMPLIANT SUBSTITUTIONS PERMITTED ALT 18+ CF TOP-FREEZER SUBSTITUTIONS PERMITTED ALT. 4.4+ +CF <32.5"H SUBSTITUTIONS PERMITTED
TAG A-01 A-02 A-03 A-04 A-05 A-06 A-07	2.2 CU. F NOT USE FULL-SIZ UNDE NOT USE COFFEE WATER F	DESCRIPTION FT. MICROWAVE ED ZE REFRIGERATOR ERCOUNTER REFRIGERATOR ED MAKER PURIFIER DESITION	MANUFACTURER (OR EQUAL) GE FRIGIDAIRE WHIRLPOOL WESTINGHOUSE - COMMERCIAL COOL IGLOO HAIER BY OWNER BY OWNER BY OWNER	MODEL (OR EQUAL) PES7227DLBE FFHT1814QB WRT541SZDE CCR45B FR464 HC46SF10SV 	ADA-COMPLIANT ADA-COMPLIANT ADA-COMPLIANT ADA-COMPLIANT ADA-COMPLIANT ADA-COMPLIANT ADA-COMPLIANT ADA-COMPLIANT ADA-COMPLIANT ADA-COMPLIANT ADA-COMPLIANT ADA-COMPLIANT ADA-COMPLIANT	IANCE SCHEDU	JLE SHED BY GC • • • • • • • •	INSTAL OWNER	LED BY GC 	NOTES ALT. 1.4+ CF ADA-COMPLIANT SUBSTITUTIONS PERMITTED ALT 18+ CF TOP-FREEZER SUBSTITUTIONS PERMITTED ALT. 4.4+ +CF <32.5"H SUBSTITUTIONS PERMITTED
TAG A-01 A-02 A-03 A-04 A-05 A-06 A-07 TA TA	2.2 CU. F NOT USE FULL-SIZ UNDE COFFEE WATER F	DESCRIPTION FT. MICROWAVE ED ZE REFRIGERATOR ERCOUNTER REFRIGERATOR ED EMAKER PURIFIER DESI TOILET TISSUE DISPENSER UNIVERSAL OF FOLD (MULTICE)	MANUFACTURER (OR EQUAL) GE FRIGIDAIRE WHIRLPOOL WESTINGHOUSE - COMMERCIAL COOL IGLOO HAIER BY OWNER BY OWNER BY OWNER BY OWNER	MODEL (OR EQUAL) PES7227DLBE FFHT1814QB WRT541SZDE CCR45B CCR45B FR464 HC46SF10SV 	ADA-COMPLIANT AD	IANCE SCHEDU	JLE SHED BY GC • • • • • • • •	INSTAL OWNER	LED BY GC I I I I I I I I I I I I I I I I I I	NOTES ALT. 1.4+ CF ADA-COMPLIANT SUBSTITUTIONS PERMITTED ALT 18+ CF TOP-FREEZER SUBSTITUTIONS PERMITTED ALT. 4.4+ +CF <32.5"H SUBSTITUTIONS PERMITTED
TAG A-01 A-02 A-03 A-04 A-05 A-06 A-07 TA TA TA TA-02	2.2 CU. F NOT USE FULL-SIZ UNDE COFFEE WATER I WATER I	DESCRIPTION FT. MICROWAVE ED ZE REFRIGERATOR ERCOUNTER REFRIGERATOR ED MAKER PURIFIER DURIFIER TOILET TISSUE DISPENSER UNIVERSAL C-FOLD / MULTI-FC	MANUFACTURER (OR EQUAL) GE FRIGIDAIRE WHIRLPOOL WESTINGHOUSE - COMMERCIAL COOL IGLOO HAIER BY OWNER BY OWNER BY OWNER BY OWNER CRIPTION	MODEL (OR EQUAL) PES7227DLBE FFHT1814QB WRT541SZDE CCR45B CCR45B FR464 HC46SF10SV CCR45B	APPL REQUIREMENTS ADA-COMPLIANT ADA-COMPLI	FURNISH FINISH OWNER BLACK BLACK BLACK BLACK BLACK WH OR SS SS BLACK	JLE SHED BY GC 	INSTAL OWNER	LED BY GC	NOTES ALT. 1.4+ CF ADA-COMPLIANT SUBSTITUTIONS PERMITTED ALT 18+ CF TOP-FREEZER SUBSTITUTIONS PERMITTED ALT. 4.4+ +CF <32.5"H SUBSTITUTIONS PERMITTED
TAG A-01 A-02 A-03 A-04 A-05 A-06 A-07 TA TA TA TA-02	2.2 CU. F NOT USE FULL-SIZ UNDE COFFEE WATER F WATER F AG -01 (OPT.) (OPT.)	DESCRIPTION FT. MICROWAVE ED ZE REFRIGERATOR ERCOUNTER REFRIGERATOR ED EMAKER PURIFIER DURIFIER DURIFIER DES TOILET TISSUE DISPENSER UNIVERSAL C-FOLD / MULTI-FC UNIVERSAL 8" ROLL PAPER TO WASTE RECEPTACY E	MANUFACTURER (OR EQUAL) GE FRIGIDAIRE WHIRLPOOL WESTINGHOUSE - COMMERCIAL COOL IGLOO HAIER BY OWNER BY OWNER BY OWNER BY OWNER CRIPTION	MODEL (OR EQUAL) PES7227DLBE FFHT1814QB WRT541SZDE CCR45B CCR45B FR464 HC46SF10SV OOM ACC	APPL REQUIREMENTS ADA-COMPLIANT ADA-COMPLI	FURNISH FINISH OWNER BLACK BLACK BLACK BLACK BLACK WH OR SS SS BLACK WH OR SS SS SS SS SS SS SS SS SS SS SS <td>JLE SHED BY GC </td> <td>INSTAL OWNER</td> <td>LED BY GC</td> <td>NOTES ALT. 1.4+ CF ADA-COMPLIANT SUBSTITUTIONS PERMITTED ALT 18+ CF TOP-FREEZER SUBSTITUTIONS PERMITTED ALT. 4.4+ +CF <32.5"H SUBSTITUTIONS PERMITTED</td> ALT. 4.4+ +CF <32.5"H SUBSTITUTIONS PERMITTED	JLE SHED BY GC 	INSTAL OWNER	LED BY GC	NOTES ALT. 1.4+ CF ADA-COMPLIANT SUBSTITUTIONS PERMITTED ALT 18+ CF TOP-FREEZER SUBSTITUTIONS PERMITTED ALT. 4.4+ +CF <32.5"H SUBSTITUTIONS PERMITTED
TAG A-01 A-02 A-03 A-04 A-05 A-06 A-07 TA TA TA TA-02	2.2 CU. F NOT USE FULL-SIZ UNDE COFFEE WATER F WATER F AG -01 (OPT.) (OPT.) -03 -04	DESCRIPTION FT. MICROWAVE ED ZE REFRIGERATOR ERCOUNTER REFRIGERATOR ED EMAKER PURIFIER DURIFIER DES TOILET TISSUE DISPENSER UNIVERSAL C-FOLD / MULTI-FO UNIVERSAL 8" ROLL PAPER TO WASTE RECEPTACLE GRAB BARS	MANUFACTURER (OR EQUAL) GE FRIGIDAIRE WHIRLPOOL WESTINGHOUSE - COMMERCIAL COOL IGLOO HAIER BY OWNER BY OWNER BY OWNER BY OWNER CRIPTION	MODEL (OR EQUAL) PES7227DLBE FFHT1814QB WRT541SZDE CCR45B FR464 HC46SF10SV OOM ACC	APPL REQUIREMENTS ADA-COMPLIANT ADA-COMPLIAN	FURNISH FINISH OWNER BLACK BLACK BLACK BLACK BLACK WH OR SS SS BLACK WH OR SS SS SS	JLE SHED BY GC 	INSTAL OWNER	LED BY GC	NOTES ALT. 1.4+ CF ADA-COMPLIANT SUBSTITUTIONS PERMITTED ALT 18+ CF TOP-FREEZER SUBSTITUTIONS PERMITTED ALT. 4.4+ +CF <32.5"H SUBSTITUTIONS PERMITTED ALT. 4.4+ +CF <32.5"H SUBSTITUTIONS PERMITTED ALT. 4.4+ +CF <32.5"H SUBSTITUTIONS PERMITTED G.C. TO PROVIDE 1/4" COPPER WATER SUPPLY FOR FINAL CONNECTION BY OWNER G. C. TO PROVIDE 1/4" COPPER WATER SUPPLY FOR FINAL CONNECTION BY OWNER
ТАС А-01 А-02 А-03 А-04 А-04 А-05 А-06 А-07 ТА ТА-02 ТА-02 ТА-02 ТА-02 ТА-02 ТА-02	2.2 CU. F NOT USE FULL-SIZ UNDE COFFEE WATER F WATER F AG -01 (OPT.) (OPT.) -03 -04	DESCRIPTION FT. MICROWAVE ED ZE REFRIGERATOR ECOUNTER REFRIGERATOR ED MAKER PURIFIER DES TOILET TISSUE DISPENSER UNIVERSAL C-FOLD / MULTI-FC UNIVERSAL 8" ROLL PAPER TC WASTE RECEPTACLE GRAB BARS MIRROR	MANUFACTURER (OR EQUAL) GE FRIGIDAIRE WHIRLPOOL WESTINGHOUSE - COMMERCIAL COOL IGLOO HAIER BY OWNER BY OWNER BY OWNER BY OWNER CRIPTION	MODEL (OR EQUAL) PES7227DLBE FFHT1814QB WRT541SZDE CCR45B FR464 HC46SF10SV	APPL REQUIREMENTS ADA-COMPLIANT ADA-COMPLIAN	FURNISH FINISH OWNER BLACK BLACK BLACK BLACK WH OR SS SS WH OR SS SS SS SS SS SS SS SS SS S.S. 1 S.S.	JLE SHED BY GC 	INSTAL OWNER	LED BY GC 	NOTES ALT. 1.4+ CF ADA-COMPLIANT SUBSTITUTIONS PERMITTED ALT 18+ CF TOP-FREEZER SUBSTITUTIONS PERMITTED ALT. 4.4+ +CF <32.5"H SUBSTITUTIONS PERMITTED
TAG A-01 A-02 A-03 A-04 A-05 A-06 A-07 TA TA-02 TA TA-03	2.2 CU. F NOT USE FULL-SIZ UNDE COFFEE WATER I WATER I (OPT.) (OPT.) -03 -04 -05 (OPT.)	DESCRIPTION FT. MICROWAVE ED ZE REFRIGERATOR ECOUNTER REFRIGERATOR ED EMAKER PURIFIER I I I I I I I I I I I I I I I I I I	MANUFACTURER (OR EQUAL) GE FRIGIDAIRE WHIRLPOOL WESTINGHOUSE - COMMERCIAL COOL IGLOO HAIER BY OWNER BY OWNER BY OWNER BY OWNER CRIPTION CRIPTION	MODEL (OR EQUAL) PES7227DLBE FFHT1814QB WRT541SZDE CCR45B CCR45B HC46SF10SV CCR45B	APPL REQUIREMENTS ADA-COMPLIANT ADA-COMPLIAN	FURNISH FINISH OWNER BLACK BLACK BLACK BLACK BLACK WH OR SS SS SS The DULE FINISH S.S. SS SS -	JLE SHED BY GC 	INSTAL OWNER	LED BY GC	NOTES ALT. 1.4+ CF ADA-COMPLIANT SUBSTITUTIONS PERMITTED ALT 18+ CF TOP-FREEZER SUBSTITUTIONS PERMITTED ALT. 4.4+ +CF <32.5"H SUBSTITUTIONS PERMITTED
TAG A-01 A-02 A-03 A-04 A-05 A-06 A-07 TA TA-02 TA-03	2.2 CU. F NOT USE FULL-SIZ UNDE COFFEE WATER I WATER I WATER I (OPT.) (OPT.) -03 -04 -05 (OPT.) (OPT.)	DESCRIPTION FT. MICROWAVE ED ED ERCOUNTER REFRIGERATOR ED EMAKER PURIFIER IDITION IDIT	MANUFACTURER (OR EQUAL) GE FRIGIDAIRE WHIRLPOOL WESTINGHOUSE - COMMERCIAL COOL IGLOO HAIER BY OWNER BY OWNER BY OWNER BY OWNER DUD PAPER TOWEL DISI WEL DISPENSER MOUNT, LONG SHANK	MODEL (OR EQUAL) PES7227DLBE FFHT1814QB WRT541SZDE CCR45B CCR45B FR464 HC46SF10SV CCR45B	APPL REQUIREMENTS ADA-COMPLIANT ADA-COMPLIAN	FURNISH FINISH OWNER BLACK BLACK BLACK BLACK BLACK WH OR SS SS BLACK WH OR SS SS SS SS SS SS SS SS SS SS SS SS SS SS SS SS SS SS SS 1 SS SS SS SS SS SS <	JLE SHED BY GC 	INSTAL OWNER	LED BY GC	NOTES ALT. 1.4+ CF ADA-COMPLIANT SUBSTITUTIONS PERMITTED ALT 18+ CF TOP-FREEZER SUBSTITUTIONS PERMITTED ALT. 4.4+ +CF <32.5"H SUBSTITUTIONS PERMITTED ALT. 4.4+ +CF <32.5"H SUBSTITUTIONS PERMITTED ALT. 4.4+ +CF <32.5"H SUBSTITUTIONS PERMITTED G.C. TO PROVIDE 1/4" COPPER WATER SUPPLY FOR FINAL CONNECTION BY OWNER G. C. TO PROVIDE 1/4" COPPER WATER SUPPLY FOR FINAL CONNECTION BY OWNER
TAG A-01 A-02 A-03 A-04 A-05 A-06 A-07 TA TA TA TA-06 TA-02 TA-02 TA-03	2.2 CU. F NOT USE FULL-SIZ UNDE COFFEE WATER I WATER I WATER I (OPT.) -03 -04 -05 (OPT.) (OPT.) -07	DESCRIPTION FT. MICROWAVE ED ZE REFRIGERATOR ECOUNTER REFRIGERATOR ED EMAKER PURIFIER VIRIFIER VINIVERSAL C-FOLD / MULTI-FC UNIVERSAL 8" ROLL PAPER TO SANITARY NAPKIN DISPOSAL	MANUFACTURER (OR EQUAL) GE FRIGIDAIRE WHIRLPOOL WESTINGHOUSE - COMMERCIAL COOL IGLOO HAIER BY OWNER BY OWNER BY OWNER BY OWNER CRIPTION CRIPTION	MODEL (OR EQUAL) PES7227DLBE FFHT1814QB WRT541SZDE CCR45B CCR45B FR464 HC46SF10SV CCR45B	APPL REQUIREMENTS ADA-COMPLIANT ADA-COMPLIAN	FURNISH FINISH OWNER BLACK BLACK BLACK BLACK BLACK WH OR SS SS The Dube BLACK WH OR SS SS 1 SS SS SS 1 SS SS SS SS 1 SS SS SS </td <td>JLE SHED BY GC , 3</td> <td>INSTAL OWNER</td> <td>LED BY GC</td> <td>NOTES ALT. 1.4+ CF ADA-COMPLIANT SUBSTITUTIONS PERMITTED ALT 18+ CF TOP-FREEZER SUBSTITUTIONS PERMITTED ALT. 4.4+ +CF <32.5"H SUBSTITUTIONS PERMITTED ALT. 4.4+ +CF <32.5"H SUBSTITUTIONS PERMITTED ALT. 4.4+ +CF <32.5"H SUBSTITUTIONS PERMITTED G.C. TO PROVIDE 1/4" COPPER WATER SUPPLY FOR FINAL CONNECTION BY OWNER G. C. TO PROVIDE 1/4" COPPER WATER SUPPLY FOR FINAL CONNECTION BY OWNER</td>	JLE SHED BY GC , 3	INSTAL OWNER	LED BY GC	NOTES ALT. 1.4+ CF ADA-COMPLIANT SUBSTITUTIONS PERMITTED ALT 18+ CF TOP-FREEZER SUBSTITUTIONS PERMITTED ALT. 4.4+ +CF <32.5"H SUBSTITUTIONS PERMITTED ALT. 4.4+ +CF <32.5"H SUBSTITUTIONS PERMITTED ALT. 4.4+ +CF <32.5"H SUBSTITUTIONS PERMITTED G.C. TO PROVIDE 1/4" COPPER WATER SUPPLY FOR FINAL CONNECTION BY OWNER G. C. TO PROVIDE 1/4" COPPER WATER SUPPLY FOR FINAL CONNECTION BY OWNER
TAG A-01 A-02 A-03 A-04 A-05 A-06 A-07 TA TA TA TA TA TA TA-06 TA-02 TA TA TA TA-02 TA-02 TA-02 TA-02 TA-02 TA-02 TA-02 TA-02 TA-03	2.2 CU. F NOT USE FULL-SIZ UNDE COFFEE WATER F WATER F WATER F 01 (OPT.) (OPT.) -03 -04 -05 (OPT.) (OPT.) -03	DESCRIPTION FT. MICROWAVE ED ZE REFRIGERATOR ECOUNTER REFRIGERATOR ED MAKER PURIFIER DURIFIER	MANUFACTURER (OR EQUAL) GE FRIGIDAIRE WHIRLPOOL WESTINGHOUSE - COMMERCIAL COOL IGLOO HAIER BY OWNER BY OWNER BY OWNER BY OWNER CRIPTION CRIPTION	MODEL (OR EQUAL) PES7227DLBR FFHT1814QB WRT541SZDE CCR45B FR464 HC46SF10SV	APPL REQUIREMENTS ADA-COMPLIANT ADA-COMPLIAN	FURNISH FINISH OWNER BLACK BLACK BLACK BLACK BLACK BLACK WH OR SS SS Total SS Total SS Total SS SS Total SS SS 1 SS SS SS SS SS SS SS SS <td>JLE SHED BY GC , 3 , 2 , 2</td> <td>INSTAL OWNER</td> <td>LED BY GC GC G G G G G G G G G G G G G G G</td> <td>NOTES ALT. 1.4+ CF ADA-COMPLIANT SUBSTITUTIONS PERMITTED ALT 18+ CF TOP-FREEZER SUBSTITUTIONS PERMITTED ALT. 4.4+ +CF <32.5"H SUBSTITUTIONS PERMITTED</td> ALT. 4.4+ +CF <32.5"H SUBSTITUTIONS PERMITTED	JLE SHED BY GC , 3 , 2 , 2	INSTAL OWNER	LED BY GC GC G G G G G G G G G G G G G G G	NOTES ALT. 1.4+ CF ADA-COMPLIANT SUBSTITUTIONS PERMITTED ALT 18+ CF TOP-FREEZER SUBSTITUTIONS PERMITTED ALT. 4.4+ +CF <32.5"H SUBSTITUTIONS PERMITTED
TAG A-01 A-02 A-03 A-04 A-05 A-06 A-07 TA TA TA TA TA-06 TA-02 TA TA TA TA-02 TA TA-02 TA-03	2.2 CU. F NOT USE FULL-SIZ UNDE COFFEE WATER F WATER F WATER F 001 (OPT.) (OPT.) -03 -04 -05 (OPT.) (OPT.) -03 -04 -05 (OPT.) -03 -04 -05 (OPT.) -07 -08 -09	DESCRIPTION FT. MICROWAVE ED ED ERFRIGERATOR ED EN ED EN ED EN ED EN ED EN ED EN	MANUFACTURER (OR EQUAL) GE FRIGIDAIRE WHIRLPOOL WESTINGHOUSE - COMMERCIAL COOL IGLOO HAIER BY OWNER BY OWNER BY OWNER BY OWNER CRIPTION CRIPTION DLD PAPER TOWEL DISI WEL DISPENSER MOUNT, LONG SHANK, MOUNT, LONG SHANK,	MODEL (OR EQUAL) PES7227DLBE FFHT1814QB WRT541SZDE CCR45B WRT541STOE CCR45B PES7227DLBE WRT541SZDE CCR45B PES7227DLBE WRT541SZDE CCR45B PENSER PENSER QUAL YENSER YENS	APPL REQUIREMENTS ADA-COMPLIANT ADA-COMPLIAN	IANCE SCHEDU FINISH FURNISH BLACK BLACK BLACK BLACK BLACK BLACK BLACK WH OR SS SS Total SS Total SS SS SS Total SS	JLE SHED BY GC 	INSTAL OWNER	LED BY GC GC G G G G G G G G G G G G G G G	NOTES ALT. 1.4+ CF ADA-COMPLIANT SUBSTITUTIONS PERMITTED ALT 18+ CF TOP-FREEZER SUBSTITUTIONS PERMITTED ALT. 4.4+ +CF <32.5"H SUBSTITUTIONS PERMITTED ALT. 4.4+ +CF <32.5"H SUBSTITUTIONS PERMITTED G.C. TO PROVIDE 1/4" COPPER WATER SUPPLY FOR FINAL CONNECTION BY OWNER G. C. TO PROVIDE 1/4" COPPER WATER SUPPLY FOR FINAL CONNECTION BY OWNER

NOTES:

1. G.C. TO VERIFY OPTION PREFERENCE WITH OWNER'S LOCAL FACILITIES MANAGER.

2. FIELD-CUT SOAP DISPENSER SHANK TO MINIMIZE RESERVOIR EXPOSURE

3. AOR TO COORDINATE DISPENSER POSITION TO MAINTAIN ACCESSIBLE REACH RANGE AND PATH TO DISPENSER AND ADJACENT FIXTURES. 4. AVAILABLE FROM BOBRICK.

WHITE

WHITE

WHITE

5. BABY CHANGING STATION TO BE PROVIDED ONLY WHEN REQUIRED BY A.H.J.. MOUNT FOR ACCESSIBILITY COMPLIANCE, HANDLE < 44" AFF.

ELECTRICAL DEVICE FINISHES

LOCATION SURFACE CEILINGS AND SOFFIT FACES TYPICAL WALL

ACCENT WALL

FINISH PT-500 PT-500

ANY OTHER THAN PT-500

LEVITON, LEGRAND LUTRON

WHITE WHITE WHITE

LIGHT FIXTURE SCHEDULE					
ТҮРЕ	MANUFACTURER	MODEL	LAMPING	DESCRIPTION	
L-1	GE	LAD22A033MMT35KVQLTWHTE	27W 3500K LED	2x2 REC.27W 3500K LED TROFFER	
L-2	GE	LBT22A033MM835VQLTWHTE	34W 3500K LED	2x2 REC. LENSED 34W 3500K LED TROFFER	
L-2 (ALT)		LEDP-22-WH-WHIP-35-30-120/277	30W 3500K LED	2x2 REC. LENSED 30W 3500K LED PANEL	
L_2-EM	GE		3300 lm 34W 3500K LED		
		LEDP-22-W/H-W/HIP-/EM)-35-30-120 /277	3490 lm 30W 3500K LED		
			3490 lm (2) 7W 3500K LED		
L-3		(2) 10N7-35K-SF-STD-S-HW-UCC-120	~900 lm TOTAL		
L-4 (ALT)	LUMIERE	LANTERRA 9004-W1-RW-LED 4080-W-W-CS-L1-UNV-WIS	(2) 10W 4000K LED	120V EXTERIOR DOWN ONLY SCONCE WITH INTEGRAL LED DRIVER ALTERNATE	
				TRICK 360 DEG. BLADE EFFECT - 90mm WITH CUSTOM BLUE LAMP, WHITE,	
L-5	IGUZZINI	I.BU27-REM-01 + 4549-0350-019-UNV-ED10	(1) 6W LED	SINGLE REMOTE 19W 0-10V DIMMING POWER SUPPLY SHARED BY TWO FIXTURES. SCREEN LENS TO ILLUMINATE ADJ. WALL AND CEILING ONLY.	
L-6	GE	ECRA0C5F5401BWHTE	110W 4000K LED	EXTERIOR SEMI-RECESSED 110W 4000K LED DOWNLIGHT	MULESS MULESS MULESS MULESS
	GE	LDXB-4R-0-10-T-35-V1 + RDI4R-W-PT-WT-WT-WR + BH3	14W 3500K LED	4" ROUND 14W 3500K LED LENSED DOWNLIGHT - WET RATED	
	CE	(OPTIONAL) LDXB-4R-0-10-T-35-V1-EL + RDI4R-W-PT-WT-WT-WR + BH3	1/1/W 2500K LED		
	GE	(OPTIONAL)	14W 3500K LED		Y: ENVI B Stre 3 Stre 0 273 D
L-7-R	LF ILLUMINATION	5811-1SA-T-20L-8040-W-1-BB	20W 4000K 80 CRI LED	EXTERIOR CANOPY RECESSED CAN, BLACK TRIM	21 ED B 21 I C 21 I C 2
L-7-R-EM	LF ILLUMINATION	5811-1SA-T-20L-8040-W-1-BB-EM	20W 4000K 80 CRI LED	TRIM	
L-7 (ALT)	AMERLUX	L7 - HDL-HP-R-NC-A17-1-16-120V-0-10V (HOUSING) + HDL-HP-RLD-A17-T-MWW-65SOL-359-WET (TRIM)	18W 3500K LED	4" ROUND 18W 3500K LED LENSED DOWNLIGHT - WET RATED	
		L7EM - HDL-HP-R-NC-A17-T-16-120V-0-10V-EM	40141050011155		SIGNED BY:
L-1-EM (ALI)		(поозіло) + пос-пе-ксо-ат/-т-мww-65SOL-359-WET (TRIM)	18W 3500K LED	L-1 ALTERINATE FIXTURE WITH EMERGENCY LIGHT DRIVER	All and a second
L-7 (ALT)	USAI	RD-DL-BEVELED-PRIMARY-NCSM-35K-90CRI-1000L-WHIT E CONE-WET RATED-27"	15W 3500K LED 4000 lm	4" ROUND 15W 3500K LED LENSED DOWNLIGHT - WET RATED	IOSHILA W
L-7-EM (ALT)	USAI	RD-DL-BEVELED-PRIMARY-NCSM-35K-90CRI-1000L-WHIT E CONE-WET RATED-27"-EMPK	15W 3500K LED 4000 lm	L-7 ALTERNATE FIXTURE WITH EMERGENCY LIGHT DRIVER	CARRELL CARRELL
L-8	GE	ALC6-1-4T04-T-C8-1D-S-Q-Q-Q-[ST/51]-[K/A]-Q-W	27W 3500K LED	SURFACE-MOUNT AT CEILINGS UP TO 10'. CABLE-MOUNT AT CEILINGS OVER 10'.	NUMBER A-2018040323
L-8-EM	GE	ALC6-1-4T04-T-C8-1D-S-Q-Q-E-[ST/51]-[K/A]-Q-W	27W 3500K LED	SURFACE-MOUNT AT CEILINGS UP TO 10'. CABLE-MOUNT AT CEILINGS OVER 10'. INCLUDES EMERGENCY BATTERY.	A CHITE CAR
L-11	GE	LDXB-4R-0-10-T-35-V1 + RDI4R-W-PT-WT-WT + BH3 (OPTIONAL)	14W 3500K LED	4" ROUND 14W 3500K LED LENSED DOWNLIGHT- WET RATED, PROVIDE MATTE BLACK FLANGE IN WOOD ACCENT CEILINGS	Contractory
L-11-EM	GE	LDXB-4R-0-10-T-35-V1-EL + RDI4R-W-PT-WT-WT + BH3	14W 3500K LED	L-11 FIXTURE WITH EMERGENCY LIGHT DRIVER	6/1/2022
L-11 (ALT)	AMERI UX	L11 - HDL-HP-R-NC-A17-T-16-120V-0-10V	18W 3500K LED	4" ROUND 18W 3500K LED LENSED DOWNLIGHT, PROVIDE MATTE BLACK	
ι_11_ΕΜ (ΔΙ Τ)		(HOUSING) + HDL-HP-RLD-A17-T-MWW-65SOL-359 (TRIM) L11EM - HDL-HP-R-NC-A17-T-16-120V-0-10V-EM	18W 2500K LED		
	AWERLUA	(HOUSING) + HDL-HP-RLD-A17-T-MWW-65SOL-359 (TRIM) RD-DI -BEVELED-PRIMARY-NCSM-35K-90CRI-10001 -WHIT	TOW SOUR LED	4" ROUND 15W 3500K LED LENSED DOWNLIGHT, PROVIDE 'BLACK CONE' FINISH	$ \leq \times$
L-11 (ALT)	USAI	E CONE-27"	15W 3500K LED	IN WOOD ACCENT CEILINGS	
L-11-EM (ALT)	USAI	E CONE-27"-EMPK	15W 3500K LED	L-11 ALTERNATE FIXTURE WITH EMERGENCY LIGHT DRIVER	
L-20	BEST	EZXTEU-1-RW-EMRC	LAMP INCL.	SINGLE-FACE LED EXIT SIGN WITH 90-MIN. BATTERY	O Z ^w ^e
L-20 (ALT)	UNO-SERIES	UNO X SERIES (UNIVERSAL MOUNT)	LAMP INCL.	EDGE-LIT SINGLE-FACE LED EXIT SIGN WITH 90-MIN. BATTERY	
L-20-CHICAGO	SURE-LITES	CHX703 Series	LAMP INCL.	CHICAGO-APPROVED SINGLE-FACE LED EXIT SIGN WITH 90-MIN. BATTERY	
L-21A	LUMARK	XTOR6B-W-BZ	58W 4000K LED	EXTERIOR WALL-MOUNT 58W 4000K LED FULL-CUTOFF FIXTURE FOR GENERAL LIGHTING	
L-21B	LUMARK	XTOR6B-W-BZ-MS-L20-CBP	58W 4000K LED	EXTERIOR WALL-MOUNT 58W 4000K LED FULL-CUTOFF FIXTURE FOR EMERGENCY LIGHTING WITH 90-MINUTE BACKUP BATTERY	
L-22	LITHONIA	ZL1N-L24-1500LM-FST-MVOLT-35K-80CRI-WH-LSXR	18W 3500K LED	2' 18W 3500K LED LENSED UTILITY LIGHT w/ OCCUPANCY SENSOR	
L-307	PHILIPS COLOR KINETICS	523-000091-18	6W 3500K LED (WHITE)	12" 'eW Cove QLX Powercore' RIGID 3500K WHITE 120V LED STRIP	
L-307 (ALT)	ECOSENSE	L35-I-12"-06-35-80-MULT-120	6W 3500K LED (WHITE)	12" 'SLIM COVE DIM' 3500K WHITE 120V LED STRIP	
L-308		223-000004-02	6W LED (BLUE)	12" 'eW Cove QLX Powercore' RIGID BLUE 120V LED STRIP, WHERE MOUNTED ABOVE ACT-3, USE MOUNTING TRACK MODEL #120-000125-00 OR EQ. TO	
				MINIMIZE LIGHT BLEEDING THROUGH TILE 12" 'TROVE' MULT (120V-220V) LED STRIP, WHERE MOUNTED ABOVE ACT-3, USE	EBI JOB #4121000090
L-308 (ALT)	ECOSENSE	L35-I-12"-06-BL-MULT-120	6W LED (BLUE)	MOUNTING TRACK MODEL #MNT-L-TRKCLIP-12 OR EQ. TO MINIMIZE LIGHT BLEEDING THROUGH TILE	ISSUE DATE DESCRIPTION 0 03/02/2022 PERMIT
L-410	VONN LIGHTING	VMC31810BL 17" SALM LED PENDANT BLACK	120V 40W LED, 3000K	17" DIAMETER, MATTE BLACK FINISH, ELV DIMMING, INSTALLED 82" A.F.F. TO B.O. FIXT.; SET DIMMING PER BMS ZONE CONTROL SCHEDUI F	1 04/11/2022 PERMIT REVISIONS
		PEQ/41.5/I BLC/I ED12W/3K/DM0-10V/120/277V +		16" DIAMETER, MATTE BLACK, 0-10V DIMMING, INSTALLED 82" A F.F. TO B.O.	
L-411	BASELITE	SP-LBLC5-2	120V, 12W LED, 3000K	FIXT.	
L-412	BASELITE	PENB/41.5/SP-LBLC5-2/LED12W/3K/DM0-10V/120/277V	120v, 12W LED, 3000K	10" DIAMETER, MATTE BLACK FINISH, 0-10V DIMMING, INSTALLED 82" A.F.F. TO B.O. FIXT.	
L-413	BASELITE	CS22/41.5/LED12W/BLC/LED12/30K/DM0-10V/120/277V	120v, 12W LED, 3000K	22" DIAMETER, MATTE BLACK FINISH, O-10V DIMMING, INSTALLED 82" A.F.F. TO B.O. FIXT.	
L-500	FOCAL POINT	SEEM 4-LP, FSM4LP-FL-625LF-35K-1C-UNV-LD1-T6TZ-WH	3500K LED, INCLUDED	LINEAR LED, 4" WIDE, SET IN GRID CHANNELS, 2' MINIMUM LENGTH	
L-500-EM	FOCAL POINT	SEEM 4-LP, FSM4LP-FL-625LF-35K-1C-UNV-LD1-T6TZ-EM-WH	3500K LED, INCLUDED	L-500 WITH EMERGENCY BATTERY PACK	
L-500 (ALT)	AMERLUX	4" GRUV, GRUV4-HE-GRID-A16-PL-5-35-HW-120/277-CUS-0-10V	3500K LED, INCLUDED	LINEAR LED, 4" WIDE, SET IN GRID CHANNELS, 2' MINIMUM LENGTH	
L-500-EM (ALT)	AMERLUX	4" GRUV, GRUV4-HE-GRID-A16-PL-5-35-HW-120/277-CUS-0-10V-EM	3500K LED, INCLUDED	L-500 WITH EMERGENCY BATTERY PACK	
		C-PF			PROTOTYPE VERSION 20.4
L-501	AMERLUX	DRA-LWG-A16 - 8- 35- DAL- 120/277- IND- 0-10V- EMC-PF	3500K LED, INCLUDED	FOOT OF BOOTH CEILING WIDTH	
SL-1	GE	EACL-0-XX-XX-7-XX-X-C1-DKBZ-XXX/ 25' POLE	44-125W 4000K LED	FULL CUT-OFF 4000K LED ON 25' POLE- AoR TO SELECT OPTICS AND WATTAGE AS REQUIRED.	CONTENTS
					PLUMBING FIXTURE SCHEDULE LIGHT FIXTURE SCHEDULE
					APPLIANCE SCHEDULE RESTROOM ACCESS_SCHED
					ELECTRICAL DEVICE FINISHES
					02/04/2022
					SHEET
					A3.5





PREPARED BY: EBI CONSULTING ENVIRO BUSINESS. INC.	21 B Street Burlington, MA 01803 Tel: (781) 273-2500 www.ebiconsulting.com Drawings and specifications are the property and copyright of envirobusiness, inc. The project for which they were prepared and not for the construction of any other project. Any duplication or use without the express written consent of envirobusines, inc. is structly prohibited.					
NUMBER A-2018040323 6/1/2022						
PRYOR ROAD & LOWENSTEIN DRIVE	908 NW PRYOR ROAD LEE'S SUMMIT, MO 64081					
EBI JOB # ISSUE DATE 0 03/02/2022 PE 1 04/11/2022 PE	#4121000090 DESCRIPTION RMIT RMIT REVISIONS					
PRYOR & I						
PROTOTYPE VERSION 20.4 CONTENTS INTERIOR DETAILS: OVERHEAD COILING DOORS DIGITAL DISPLAYS TELEPRESENCE MILLWORK WALL PANELS 02/04/2022						
A5	.3.1					

REFLECTED CEILNG PLAN

2

A6.01

1/4" = 1'-0"

FREPARED BY: EBBI COONSIDITION EBBI COONSIDITION ENVIRE DUSINES, INC. 21 B Street Burlington, MA 01803 Tel: (781) 273-2500 www.ebiconsulting.com Market Rest Intercurve User Premer Leven For Environ Street Tel: 7781 273-2500 www.ebiconsulting.com Market Rest Intercurve User Premer Leven For Environ Street Tel: 7781 273-2500 www.ebiconsulting.com Market Rest Intercurve User Premer Leven For Environ Street Environ Street Intercurve One Street Market Rest Intercurve One Street Mar				
PRACARAGA Integration Providence Provid				
EBI JOB #4121000090 ISSUE DATE 0 03/02/2022 PERMIT 1 04/11/2022 PERMIT REVISIONS Image: Constant state				
CONTENTS TRANSACTION VESTIBULE 02/04/2022 SHEET A6.01				



















DATA ROOM DIAGRAM KEY			
E-1	ELEC PANEL: MAIN (NOT IN DATA ROOM)		
E-2	ELEC. PANEL: DISTRIBUTION (NOT IN DATA ROOM)		
E-3	ELEC. PANEL: DISTRIBUTION (NOT IN DATA ROOM)		
E-4	SURGE PROTECTION DEVICE (NOT IN DATA ROOM)		
E-5	120V/20A ELEC. OUTLET- DUPLEX OR QUADRUPLEX AS SHOWN- RECESSED OR SURF. MTD.		
E-6	(2) DEDICATED 208V/30A ELEC OUTLETS - TWIST-LOCK, NEMA L14-30		
E-7	(2) DEDICATED 120V/20A ELEC OUTLETS - NEMA 5-20R		
E-8	IN-FLOOR CONDUIT TERMINATIONS- REFER TO ELECTRICAL DRAWINGS		
E-9	MANUAL TOGGLE LIGHT SWITCH		
T-1	TELECOM CARRIER #1: 36"W X 36"H		
T-2	TELECOM CARRIER #2: 36"W X 36"H		
T-3	1" CONDUIT TO ROOF LOCATION FOR FUTURE ANTENNA CABLING.		
T-4	(2) 2" CONDUITS FOR TELECOM SERVICE W/ 3-CELL MAXCELL INNERDUCT- COORD. LOCN. W/ UTILITY		
T-5	CELLULAR TELECOM CARRIER: 36"W x 16"H		
D-1	DATA RACK / CABLE TRAY COMPONENTS		
D-2	(2) 4" DATA CABLE SLEEVES PROVIDED AND INSTALLED BY OWNER'S STRUCTURED CABLING CONTRACTOR AFTER WALL FINISH (2 LOCATIONS)		
S-1	SECURITY EQUIPMENT: 48"W x 66"H		
S-2	2" FIRE-RATED SECURITY CABLE SLEEVE PROVIDED AND INSTALLED BY OWNER'S STRUCTURED CABLING CONTRACTOR AFTER WALL FINISH		
S-3	4" FIRE-RATED SECURITY CABLE SLEEVE PROVIDED AND INSTALLED BY OWNER'S STRUCTURED CABLING CONTRACTOR AFTER WALL FINISH		
M-1	FAN COIL UNIT WITH REMOTE CONDENSATE PUMP IN ADJACENT ROOM - PROVIDE DEDICATED SYSTEM THAT MEETS ROOM TEMPERATURE AND HUMIDITY REQUIREMENTS IN JPMC RETAIL STRUCTURED CABLING STANDARDS, APPENDIX B		
M-2	SECURITY MOTION SENSOR		
M-4	SURFACE-MOUNT DATA NETWORK JACK		
M-5	M-5 WALL BRACKET FOR REMOTE THERMOSTAT		
M-6	DRAWING STORAGE TUBE		
M-7	STRUCTURED CABLING FLOOR PLAN: 48"W X 36"H		
M-8	M-8 WALL-MOUNT FIRE EXTINGUISHER: CARBON DIOXIDE ONLY / WATER OR DRY CHEMICAL TYPES NOT PERMITTED, CLASS C OR B-C, 5 LB. OR SMALLER,SET WALL BRACKET TO KEEP HANDLE < 48" AFF		
B-1	BMS EQUIPMENT: 15"W X 54"H		





ELEVATION- OPEN WALL 3/8" = 1'-0"





SHEET INDEX

EBI CONSULTING DRAWINGS

SHEET NO.	SHEET TITLE
C-1	TITLE SHEET
C-2	GENERAL NOTES & LEGEND SHEET
C-3	SITE PLAN
C-4	GRADING PLAN
C-5	UTILITY & DRAINAGE PLAN
C-6	DETAIL SHEET

SUBMISSION INFO

ISSUED FOR: LOCAL APPROVALS DATE ISSUED: MARCH 11, 2022 LATEST ISSUE: MARCH 11, 2022







900 NW PRYOR ROAD, LEE'S SUMMIT, MO 64081



LOCUS MAP SCALE: 1"=100'



APPLICANT EBI CONSULTING 21 B. STREET

PROJECT TEAM

ARCHITECT EBI CONSULTING 21 B. STREET BURLINGTON, MA 01803 TEL: (781) 273 - 2500

ENGINEER OF RECORD EBI CONSULTING 21 B. STREET BURLINGTON, MA 01803 TEL: (781) 273 - 2500

REFERENCE PLAN

LANDLORDS PLANS PLAN ENTITLE "STREETS OF WEST PRYOR LOT #9" PREPARED BY: SM ENGINEERING, SCALE: 1"=20', DATED: 1/17/22

PROPERTY / PARCEL INFORMATION

BURLINGTON, MA 01803 TEL: (781) 273 - 2500

ASSESSOR'S INFORMATION

PARCEL # 51-800-04-28-00-0-00-0000

> LANDSCAPE ARCHITECT JAY MILLER, RLA 2095 VT ROUTE 18 WATERFORD, VT 05819 TEL: (802) 535 - 8586



GENERAL NOTES	GRADING & UTILITY PLAN NOTES
NOTE: CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH THE NOTES AND SPECIFICATIONS CONTAINED HEREIN. CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT ALL SUBCONTRACTORS FULLY AND COMPLETELY CONFORM TO AND COMPLY WITH THESE REQUIREMENTS.	 LOCATIONS OF ALL EXISTING AND PROPOSED SERVICES ARE APPROXIMATE AND SHALL BE INDEPENDENTLY CONFIRMED WITH LOCAL UTILITY COMPANIES PRIOR TO COMMEN ANY CONSTRUCTION OR EXCAVATION. SANITARY SEWER AND ALL OTHER UTILITY SERVICE CONNECTION POINTS SHALL BE INDEPENDENTLY CONFIRMED BY THE CONTRACTOR I PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. ALL DISCREPANCIES SHALL IMMEDIATELY BE REPORTED, IN WRITING, TO THE ENGINEER. CONSTRUCTION SHALL
 CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE, LOCAL AND OSHA CODES, MANDATED REGULATIONS AND REQUIREMENTS. CONTRACTOR SHALL KEEP AN ACCURATE SET OF 'AS-BUILT' PLANS 	BEGINNING AT THE LOWEST INVERT (POINT OF CONNECTION) AND PROGRESS UP GRADIENT. PROPOSED INTERFACE POINTS (CROSSINGS) WITH EXISTING UNDERGROUND UTIL BE FIELD VERIFIED BY TEST PIT PRIOR TO COMMENCEMENT OF CONSTRUCTION.
 ALL ACCESSIBLE PARKING SPACES SHALL BE CONSTRUCTED TO MEET, AT A MINIMUM, THE MORE STRINGENT OF THE REQUIREMENTS OF THE "AMERICANS WITH DISABILITIES ACT" (ADA) CODE OR THE REQUIREMENTS OF THE JURISDICTION WHERE THE PROJECT SHALL BE CONSTRUCTED. PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED THE COMMENTS TO ALL PLANS AND OTHER DOCUMENTS REVIEWED AND APPROVED BY THE PERMITTING AUTHORITIES AND CONFIRMED THAT ALL NECESSARY OR REQUIRED PERMITS HAVE BEEN OBTAINED. 	2. CONTRACTOR SHALL VERTICALLY AND HORIZONTALLY LOCATE ALL UTILITIES AND SERVICES INCLUDING, BUT NOT LIMITED TO, GAS, WATER, ELECTRIC, SANITARY SEWER AND ST TELEPHONE, CABLE, FIBER OPTIC CABLE, ETC. WITHIN THE LIMITS OF DISTURBANCE OR WORK SPACE, WHICHEVER IS GREATER. THE CONTRACTOR SHALL USE, REFER TO, AI WITH THE REQUIREMENTS OF THE APPLICABLE UTILITY NOTIFICATION SYSTEM TO LOCATE ALL THE UNDERGROUND UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGE TO ANY EXISTING UTILITIES DURING CONSTRUCTION, AT NO COST TO THE OWNER. CONTRACTOR SHALL BEAR ALL COSTS ASSOCIATED WITH DAMAGE TO AN UTILITIES DURING CONSTRUCTION.
CONTRACTOR SHALL HAVE COPIES OF ALL PERMITS AND APPROVALS ON SITE AT ALL TIMES. 5. THE OWNER/CONTRACTOR SHALL BE FAMILIAR WITH AND RESPONSIBLE FOR THE PROCUREMENT OF ANY AND ALL CERTIFICATIONS REQUIRED FOR THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY. 6. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS, SPECIFICATIONS AND CONDITIONS OF APPROVAL, AND ALL APPLICABLE REQUIREMENTS, RULES, REGULATIONS, STATUTORY REQUIREMENTS, CODES, LAWS AND STANDARDS OF	3. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW ALL CONSTRUCTION CONTRACT DOCUMENTS INCLUDING, BUT NOT LIMITED TO, ALL OF THE DRAWINGS AND SPEC ASSOCIATED WITH THE PROJECT WORK SCOPE PRIOR TO THE INITIATION AND COMMENCEMENT OF CONSTRUCTION. SHOULD THE CONTRACTOR FIND A CONFLICT AND/OR DIS BETWEEN THE DOCUMENTS RELATIVE TO THE SPECIFICATIONS OR THE RELATIVE OR APPLICABLE CODES, REGULATIONS, LAWS, RULES, STATUTES AND/OR ORDINANCES CONTRACTOR'S SOLE RESPONSIBILITY TO NOTIFY THE PROJECT ENGINEER OF RECORD, IN WRITING, OF SAID CONFLICT AND/OR DISCREPANCY PRIOR TO THE START OF CON CONTRACTOR'S FAILURE TO NOTIFY THE PROJECT ENGINEER SHALL CONSTITUTE CONTRACTOR'S FULL AND COMPLETE ACCEPTANCE OF ALL RESPONSIBILITY TO COMPLETE THI
ALL GOVERNMENTAL ENTITIES WITH JURISDICTION OVER THIS PROJECT. 7. THE GEOTECHNICAL REPORT AND RECOMMENDATIONS INCLUDED IN SAID REPORT ARE A PART OF THE CONSTRUCTION DOCUMENTS AND, IN CASE OF CONFLICT OR DISCREPANCY, THE MORE STRINGENT REQUIREMENTS CONTAINED IN THE PLANS AND THE GEOTECHNICAL REPORT SHALL TAKE PRECEDENCE LINESS SPECIFICALLY NOTED OTHERWISE ON THE PLANS. THE CONTRACTOR SHALL NOTEY THE ENGINEER IN WRITING, OF ANY SLICH CONFLICT, DISCREPANCY OR AMBIGUITY BETWEEN.	WORK AS DEFINED BY THE DRAWINGS AND IN FULL COMPLIANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS, LAWS, STATUTES, ORDINANCES AND CODES AND CODES AND CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH SAME.
 THE SECTED FINICAL REPORTS AND PLANS AND SPECIFICATIONS PRIOR TO PROCEEDING WITH ANY FURTHER WORK. THESE PLANS ARE BASED ON INFORMATION PROVIDED TO THE ENGINEER BY THE OWNER AND OTHERS PRIOR TO THE TIME OF PLAN PREPARATION. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND NOTIFY THE ENGINEER, IN WRITING, IF 	 THE CONTRACTOR SHALL LOCATE AND CLEARLY AND UNAMBIGUOUSLY DEFINE VERTICALLY AND HORIZONTALLY ALL ACTIVE AND INACTIVE UTILITY AND/OR SERVICE SYSTEMS TO BE REMOVED. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROTECT AND MAINTAIN ALL ACTIVE AND INACTIVE SYSTEMS THAT ARE NOT BEING REMOVED/RELOCATED D ACTIVITY.
ACTUAL SITE CONDITIONS DIFFER FROM THOSE SHOWN ON THE PLAN, OR IF THE PROPOSED WORK CONFLICTS WITH ANY OTHER SITE FEATURES. 9. ALL DIMENSIONS SHOWN ON THE PLANS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY ENGINEER, IN WRITING, IF ANY CONFLICTS, DISCREPANCIES, OR AMBIGUITIES EXIST PRIOR TO PROCEEDING WITH CONSTRUCTION. NO EXTRA COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR WORK WHICH HAS TO BE REDONE OR REPAIRED DUE TO DIMENSIONS OR GRADES SHOWN INCORRECTLY ON THESE PLANS PRIOR TO CONTRACTOR GIVING ENGINEER WRITTEN NOTIFICATION OF SAME AND ENGINEER, THEREAFTER, PROVIDING CONTRACTOR WITH WRITTEN AUTHORIZATION TO PROCEED WITH SUCH ADDITIONAL WORK.	5. THE CONTRACTOR SHALL FAMILIARIZE ITSELF WITH THE APPLICABLE UTILITY SERVICE PROVIDER REQUIREMENTS AND SHALL BE RESPONSIBLE FOR ALL COORDINATION REGARD DEMOLITION AS IDENTIFIED OR REQUIRED FOR THE PROJECT. THE CONTRACTOR SHALL PROVIDE THE OWNER WITH WRITTEN NOTIFICATION THAT THE EXISTING UTILITIES ANI HAVE BEEN TERMINATED AND ABANDONED IN ACCORDANCE WITH THE JURISDICTION AND UTILITY COMPANY REQUIREMENTS AND ALL OTHER APPLICABLE REQUIREMENT STATUTES, LAWS, ORDINANCES AND CODES.
 CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF ENTRY/EXIT POINTS, ELEVATIONS, PRECISE BUILDING DIMENSIONS, AND EXACT BUILDING UTILITY LOCATIONS. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL COORDINATE THE BUILDING LAYOUT BY CAREFUL REVIEW OF THE ENTIRE SITE PLAN AND THE LATEST ARCHITECTURAL PLANS (INCLUDING, BUT NOT LIMITED TO, STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND FIRE SUPPRESSION PLAN, WHERE APPLICABLE). CONTRACTOR SHALL IMMEDIATELY NOTIFY OWNER, ARCHITECT AND SITE ENGINEER, IN WRITING, OF ANY CONFLICTS, DISCREPANCIES OR AMBIGUITIES WHICH EXIST. 	 THE CONTRACTOR SHALL INSTALL ALL STORING SEWER AND SANITARY SEWER COMPONENTS WHICH FONCTION BY GRAVITY PRIOR TO THE INSTALLATION OF ALL OTHER UTILITIES CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF SITE PLAN DOCUMENTS AND ARCHITECTURAL DESIGN FOR EXACT BUILDING UTILITY CONNECTION LOCATIONS, GF REQUIREMENTS/DETAILS, DOOR ACCESS, AND EXTERIOR GRADING. THE ARCHITECT WILL DETERMINE THE UTILITY SERVICE SIZES. THE CONTRACTOR SHALL COORDINATE INSTAL UTILITIES/SERVICES WITH THE INDIVIDUAL COMPANIES, TO AVOID CONFLICTS AND TO ENSURE THAT PROPER DEPTHS ARE ACHIEVED. THE CONTRACTOR SHALL BE RESPON ENSURING THAT INSTALLATION OF ALL IMPROVEMENTS COMPLIES WITH ALL UTILITY REQUIREMENTS WITH JURISDICTION AND/OR CONTROL OF THE SITE, AND ALL OTHER A
12. DEBRIS SHALL NOT BE BURIED ON THE SUBJECT SITE AND ALL UNSUITABLE EXCAVATED MATERIAL AND DEBRIS (SOLID WASTE) SHALL BE DISPOSED OF IN ACCORDANCE WITH THE REQUIREMENTS OF ANY AND ALL GOVERNMENTAL AUTHORITIES WHICH HAVE JURISDICTION OVER THIS PROJECT OR OVER CONTRACTOR.	CONNECTING TO THE EXISTING UTILITY/SERVICE. WHERE A CONFLICT(S) EXISTS BETWEEN THESE SITE PLANS AND THE ARCHITECTURAL PLANS, OR WHERE ARCHITECTURAL PLANS AND THE ARCHITECTURAL PLANS AND THE ARCHITECTURAL PLANS AND THE ARCHITECTURAL PLANS AND AND THE ARCHITECTURAL PLANS AND THE ARCHITECTURAL
 THE CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING WHEN SHORING IS REQUIRED AND FOR INSTALLING ALL SHORING REQUIRED DURING EXCAVATION (TO BE PERFORMED IN ACCORDANCE WITH CURRENT OSHA STANDARDS) AND ANY ADDITIONAL PRECAUTIONS TO BE TAKEN TO ASSURE THE STABILITY OF ADJACENT, NEARBY AND CONTIGUOUS STRUCTURES AND PROPERTIES. THE CONTRACTOR SHALL EXERCISE EXTREME CARE WHEN PERFORMING ANY WORK ACTIVITIES ADJACENT TO PAVEMENT, STRUCTURES, ETC. WHICH ARE TO REMAIN EITHER FOR AN INITIAL PHASE OF THE PROJECT OR AS PART OF THE FINAL CONDITION. CONTRACTOR SHALL BE RESPONSIBLE FOR TAKING ALL APPROPRIATE MEASURES REQUIRED TO ENSURE THE STRUCTURAL STABILITY OF SIDEWALKS AND PAVEMENT, UTILITIES, BUILDINGS, AND INFRASTRUCTURE WHICH ARE TO REMAIN, AND TO PROVIDE A SAFE WORK AREA FOR THIRD PARTIES, PEDESTRIANS AND ANYONE INVOLVED WITH THE PROJECT. 	 WATER LINE MATERIALS, BURIAL DEPTH, AND COVER REQUIREMENTS SHALL BE SPECIFIED BY THE LOCAL UTILITY COMPANY. CONTRACTOR'S PRICE FOR WATER LINE SHALL IN FEES, COSTS AND APPURTENANCES REQUIRED BY THE UTILITY TO PROVIDE FULL AND COMPLETE WORKING SERVICE. CONTRACTOR SHALL CONTACT THE APPLICABLE MUNIC CONFIRM THE PROPER WATER METER AND VAULT, PRIOR TO COMMENCING CONSTRUCTION. ALL NEW UTILITIES/SERVICES, INCLUDING ELECTRIC, TELEPHONE, CABLE TV, ETC. ARE TO BE INSTALLED UNDERGROUND. ALL NEW UTILITIES/SERVICES SHALL BE IN: ACCORDANCE WITH THE UTILITY/SERVICE PROVIDER INSTALLATION SPECIFICATIONS AND STANDARDS.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY DAMAGE DONE TO ANY NEW OR EXISTING CONSTRUCTION OR PROPERTY DURING THE COURSE OF CONSTRUCTION, INCLUDING BUT NOT LIMITED TO DRAINAGE, UTILITIES, PAVEMENT, STRIPING, CURB, ETC. AND SHALL BEAR ALL COSTS ASSOCIATED WITH SAME TO INCLUDE, BUT NOT BE LIMITED TO, REDESIGN, RE-SURVEY, RE-PERMITTING AND CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR AND SHALL BE R	10. SITE GRADING SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND THE RECOMMENDATIONS SET FORTH IN THE GEOTECHNICAL REPORT REF THIS PLAN SET. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND REPLACING UNSUITABLE MATERIALS WITH SUITABLE MATERIALS AS SPECIFIED IN THE GEO REPORT. ALL EXCAVATED OR FILLED AREAS SHALL BE COMPACTED AS OUTLINED IN THE GEOTECHNICAL REPORT. MOISTURE CONTENT AT TIME OF PLACEMENT SHALL BE SUB COMPACTION REPORT PREPARED BY A QUALIFIED GEOTECHNICAL ENGINEER, REGISTERED WITH THE STATE WHERE THE WORK IS PERFORMED, VERIFYING THAT ALL FILLED SUBGRADE AREAS SWITHIN THE BUIL DING PAD AREA AND AREAS TO BE PAVED HAVE BEEN COMPACTED IN ACCORDANCE WITH THESE PLANS. SPECIFICATIONS AND THE GEOCOM
THE OWNER AND THE CONSTRUCTION MANAGER PRIOR TO THE START OF CONSTRUCTION. 16. ALL CONCRETE SHALL BE AIR ENTRAINED AND HAVE THE MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS UNLESS OTHERWISE NOTED ON THE PLANS, DETAILS AND/OR GEOTECHNICAL REPORT. 17. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION METHODS, MEANS, TECHNIQUES OR PROCEDURES, GENERALLY OR FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES OR PROCEDURES FOR COMPLETION OF THE WORK DEPICTED BOTH ON THESE PLANS, AND FOR ANY, CONFLICTS/SCOPE REVISIONS WHICH RESULT FROM SAME - CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE METHODS/MEANS FOR COMPLETION OF THE WORK PRIOR TO THE	SET FORTH IN THE GEOTECHNICAL REPORT AND ALL APPLICABLE REQUIREMENTS, RULES, STATUTES, LAWS, ORDINANCES AND CODES. SUBBASE MATERIAL FOR SIDEWALKS ASPHALT SHALL BE FREE OF ORGANICS AND OTHER UNSUITABLE MATERIALS. SHOULD SUBBASE BE DEEMED UNSUITABLE BY OWNER/DEVELOPER, OR OWNER/DE REPRESENTATIVE, SUBBASE SHALL BE REMOVED AND FILLED WITH APPROVED FILL MATERIAL COMPACTED AS DIRECTED BY THE GEOTECHNICAL REPORT. EARTHWORK INCLUDING, BUT NOT LIMITED TO, EXCAVATION, BACKFILL, AND COMPACTING SHALL COMPLY WITH THE RECOMMENDATIONS IN THE GEOTECHNICAL REPORT AND ALL A REQUIREMENTS, RULES, STATUTES, LAWS, ORDINANCES AND CODES. EARTHWORK ACTIVITIES SHALL COMPLY WITH THE STANDARD STATE DOT SPECIFICATIONS FOR CONTENTION (4) ATTACTS FOR TO ADD AND AND AND AND CODES. EARTHWORK ACTIVITIES SHALL COMPLY WITH THE STANDARD STATE DOT SPECIFICATIONS FOR CONTENTION (4) AND AND AND AND AND AND AND ADD ADD AND COMPACTING FOR
 THE ENGINEER OF RECORD SHALL NOT BE RESPONSIBLE FOR JOB SITE SAFETY. THE ENGINEER OF RECORD HAS NOT BEEN RETAINED TO PERFORM OR BE RESPONSIBLE FOR JOB SITE SAFETY, SAME BEING WHOLLY OUTSIDE OF ENGINEER'S SERVICES AS RELATED TO THE PROJECT. THE ENGINEER OF RECORD SHALL NOT BE RESPONSIBLE TO IDENTIFY OR REPORT ANY JOB SITE SAFETY ISSUES, AT ANY TIME. 	 ALL FILL, COMPACTION, AND BACKFILL MATERIALS REQUIRED FOR UTILITY INSTALLATION SHALL BE PER THE RECOMMENDATIONS PROVIDED IN THE GEOTECHNICAL REPORT AN COORDINATED WITH THE APPLICABLE UTILITY COMPANY SPECIFICATIONS. WHEN THE PROJECT DOES NOT HAVE GEOTECHNICAL RECOMMENDATIONS, FILL AND COMPACTION S MINIMUM COMPLY WITH THE STATE DOT REQUIREMENTS AND SPECIFICATIONS AND CONSULTANT SHALL HAVE NO LIABILITY OR RESPONSIBILITY FOR OR AS RELATED TO FILL C
19. THE ENGINEER WILL REVIEW THE CONTRACTOR SUBMITTALS, SUCH AS SHOP DRAWINGS, PRODUCT DATA, SAMPLES, AND OTHER DATA, WHICH THE CONTRACTOR SHALL BE REQUIRED TO SUBMIT. THIS REVIEW IS FOR THE LIMITED PURPOSE OF CHECKING FOR CONFORMANCE WITH THE DESIGN INTENT AND THE INFORMATION SHOWN IN THE CONSTRUCTION CONTRACT DOCUMENTS. CONSTRUCTION MEANS AND/OR METHODS AND/OR TECHNIQUES OR PROCEDURES, COORDINATION OF THE WORK WITH OTHER TRADES. AND CONSTRUCTION SAFETY PRECAUTIONS SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND THE ENGINEER HAS NO RESPONSIBILITY OR LIABILITY FOR SAME HEREUNDER. THE ENGINEERS SHOP	 AND BACKFILL. FURTHER, CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR EARTHWORK BALANCE. THE CONTRACTOR SHALL COMPLY, TO THE FULLEST EXTENT, WITH THE LATEST OSHA STANDARDS AND REGULATIONS, AND/OR ANY OTHER AGENCY WITH JURISDICTION FOR E AND TEENCHING DESCENDERS. THE CONTRACTOR SHALL DESCONDERS AND DESCONDERS. THE CONTRACTOR SHALL DESCONDERS AND DESCONDERS. THE CONTRACTOR SHALL DESCONDERS. THE CONTRACTOR SHALL DESCONDERS. THE CONTRACTOR SHALL DESCONDERS AND DESCONDERS. THE CONTRACTOR SHALL DESCONDERS. THE SHALL DESCONDERS. THE SHALL DESCONDERS. THE CONTRACTOR SHALL DE
DRAWING REVIEW WILL BE CONDUCTED WITH REASONABLE PROMPTNESS WHILE ALLOWING SUFFICIENT TIME TO PERMIT ADEQUATE REVIEW. REVIEW OF A SPECIFIC ITEM SHALL NOT INDICATE THAT THE ENGINEER HAS REVIEWED THE ENTIRE ASSEMBLY OF WHICH THE ITEM IS A COMPONENT. THE ENGINEER WILL NOT BE RESPONSIBLE FOR ANY DEVIATIONS FROM THE CONSTRUCTION DOCUMENTS NOT PROMPTLY AND IMMEDIATELY BROUGHT TO ITS ATTENTION, IN WRITING, BY THE CONTRACTOR. THE ENGINEER WILL NOT BE REQUIRED TO REVIEW PARTIAL SUBMISSIONS OR THOSE FOR WHICH SUBMISSIONS OF CORRELATED ITEMS HAVE NOT BEEN RECEIVED. 20. IF THE CONTRACTOR DEVIATES FROM THE PLANS AND SPECIFICATIONS, INCLUDING THE NOTES CONTAINED HEREIN, WITHOUT FIRST OBTAINING THE PRIOR WRITTEN AUTHORIZATION OF THE ENGINEER FOR SUCH DEVIATIONS, THE CONTRACTOR	 AND TRENCTING FROOLDORES. THE CONTRACTOR STALL REPORTION STALL PROVIDED FOR DETERMINING THE MEANS AND METHODS. REQUIRED TO MEET THE INTERVAND FER ONWARD CONSULTANT SHALL HAVE NO RESPONSIBILITY RELATED FOR OR AS RELATED TO EXCAVATION AND TRENCHING PROCEDURES. 13. PAVEMENT SHALL BE SAW CUT IN STRAIGHT LINES, AND EXCEPT FOR EDGE OF BUTT JOINTS, SHALL EXTEND TO THE FULL DEPTH OF THE EXISTING PAVEMENT. ALL DEBRIS FROM OPERATIONS SHALL BE REMOVED FROM THE SITE AT THE TIME OF EXCAVATION. STOCKPILING OF DEBRIS SHALL NOT BE PERMITTED.
SHALL BE SOLELY RESPONSIBLE FOR THE PAYMENT OF ALL COSTS INCURRED IN CORRECTING ANY WORK DONE WHICH DEVIATES FROM THE PLANS, ALL FINES AND/OR PENALTIES ASSESSED WITH RESPECT THERETO AND ALL COMPENSATORY OR PUNITIVE DAMAGES RESULTING THEREFROM AND, FURTHER, SHALL DEFEND, INDEMNIFY AND HOLD HARMLESS THE ENGINEER, TO THE FULLEST EXTENT PERMITTED UNDER THE LAW, FOR AND FROM ALL FEES, ATTORNEYS' FEES, DAMAGES, COSTS, JUDGMENTS, PENALTIES AND THE LIKE RELATED TO SAME.	14. THE TOPS OF EXISTING MANHOLES, INLET STRUCTURES, AND SANITARY CLEANOUT TOPS SHALL BE ADJUSTED, AS NECESSARY, TO MATCH PROPOSED GRADES IN ACCORDANC APPLICABLE STANDARDS, REQUIREMENTS, RULES, STATUTES, LAWS, ORDINANCES AND CODES.
21. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE AND PROTECTION OF TRAFFIC PLAN FOR ALL WORK THAT AFFECTS PUBLIC TRAVEL EITHER IN THE R.O.W. OR ON SITE. THE COST FOR THIS ITEM SHALL BE INCLUDED IN THE CONTRACTOR'S PRICE.	15. DURING THE INSTALLATION OF ALL UTILITIES, THE CONTRACTOR SHALL MAINTAIN A CONTEMPORANEOUS AND THOROUGH RECORD OF CONSTRUCTION TO IDENTIFY THE AS LOCATIONS OF ALL UNDERGROUND INFRASTRUCTURE. THE CONTRACTOR SHALL CAREFULLY NOTE ANY INSTALLATIONS THAT DEVIATE FROM THE INFORMATION CONTAINED IN PLAN. THIS RECORD SHALL BE KEPT ON A CLEAN COPY OF THE DRAINAGE OR UTILITY PLAN, WHICH CONTRACTOR SHALL PROMPTLY PROVIDE TO THE OWNER AT THE COMI
 ALL SIGNING AND PAVEMENT STRIPTING SHALL CONFORM TO MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES OR LOCALLY APPROVED SUPPLEMENT. ENGINEER SHALL NOT BE RESPONSIBLE FOR ANY INJURY OR DAMAGES RESULTING FROM CONTRACTOR'S FAILURE TO BUILD OR CONSTRUCT IN STRICT ACCORDANCE WITH THE APPROVED PLANS. IF CONTRACTOR AND/OR OWNER FAIL TO BUILD OR CONSTRUCT IN STRICT ACCORDANCE WITH THE APPROVED PLANS. IF CONTRACTOR AND/OR OWNER FAIL TO BUILD OR CONSTRUCT IN STRICT ACCORDANCE WITH APPROVED PLANS. THEY AGREE TO JOINTLY AND SEVERALLY INDEMNIFY AND HOLD ENGINEER HARMLESS FOR ALL INJURIES AND DAMAGES THAT ENGINEER SUFFERS AND COSTS THAT ENGINEER INCURS. 	WORK. 16. WHEN THE SITE IMPROVEMENT PLANS INVOLVE MULTIPLE BUILDINGS, SOME OF WHICH MAY BE BUILT AT A LATER DATE, THE CONTRACTOR SHALL EXTEND ALL LINES, INCLUDIN LIMITED TO STORMWATER, SANITARY SEWER, UTILITIES, AND IRRIGATION LINE, TO A POINT AT LEAST FIVE (5) FEET BEYOND THE PAVED AREAS FOR WHICH THE CONTRACTO
24. OWNER SHALL MAINTAIN AND PRESERVE ALL PHYSICAL SITE FEATURES AND DESIGN FEATURES DEPICTED ON THE PLANS AND RELATED DOCUMENTS, IN STRICT ACCORDANCE WITH THE APPROVED PLAN(S) AND DESIGN AND, FURTHER ENGINEER SHALL NOT BE RESPONSIBLE FOR ANY FAILURE TO SO MAINTAIN OR PRESERVE SITE AND/OR DESIGN FEATURES. IF OWNER FAILS TO MAINTAIN AND/OR PRESERVE ALL PHYSICAL SITE FEATURES AND/OR DESIGN FEATURES DEPICTED ON THE PLANS AND RELATED DOCUMENTS, OWNER AGREES TO INDEMNIFY AND HOLD ENGINEER HARMLESS FOR ALL INJURIES AND DAMAGES THAT ENGINEER SUFFERS AND COSTS THAT ENGINEER INCURS AS A RESULT OF SAID FAILURE.	RESPONSIBLE. CONTRACTOR SHALL CAP ENDS AS APPROPRIATE, MARK LOCATIONS WITH A 2X4, AND SHALL NOTE THE LOCATION OF ALL OF THE ABOVE ON A CLEAN CO DRAINAGE OR UTILITY PLAN, WHICH CONTRACTOR SHALL PROMPTLY PROVIDE TO THE OWNER UPON COMPLETION OF THE WORK.
	CONSTRUCTION. CONTRACTOR SHALL CONFIRM AND ENSURE 0.75% MINIMUM SLOPE AGAINST ALL ISLANDS, GUTTERS, AND CURBS; 1.0% ON ALL CONCRETE SURFACES; AND 1.5 ON ASPHALT (EXCEPT WHERE ADA REQUIREMENTS OR EXISTING TOPOGRAPHY LIMIT GRADES), TO PREVENT PONDING. CONTRACTOR SHALL IMMEDIATELY IDENTIFY, IN WRIT ENGINEER, ANY DISCREPANCIES THAT MAY OR COULD AFFECT THE PUBLIC SAFETY, HEALTH OR GENERAL WELFARE, OR PROJECT COST. IF CONTRACTOR PROCEEDS WITH CON
27. CONTRACTOR AND OWNER SHALL INSTALL ALL ELEMENTS AND COMPONENTS IN STRICT COMPLIANCE WITH AND ACCORDANCE WITH MANUFACTURER'S STANDARDS AND RECOMMENDED INSTALLATION CRITERIA AND SPECIFICATIONS. IF CONTRACTOR AND/OR OWNER FAIL TO DO SO, THEY AGREE TO JOINTLY AND SEVERALLY INDEMNIFY AND HOLD ENGINEER HARMLESS FOR ALL INJURIES AND DAMAGES THAT ENGINEER SUFFERS AND COSTS THAT ENGINEER INCURS AS A RESULT OF	 WITHOUT PROVIDING PROPER NOTIFICATION, SHALL BE AT THE CONTRACTOR'S OWN RISK AND, FORTHER, CONTRACTOR SHALL INDEMNIFY, DEFEND AND HOLD HARMLESS I ENGINEER FOR ANY DAMAGES, COSTS, INJURIES, ATTORNEY'S FEES AND THE LIKE WHICH RESULT FROM SAME. 18. PROPOSED TOP OF CURB ELEVATIONS ARE GENERALLY 6" ABOVE EXISTING LOCAL ASPHALT GRADE UNLESS OTHERWISE NOTED. FIELD ADJUST TO CREATE A MINIMUM OF .07
28. CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN ON-SITE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) IN COMPLIANCE WITH EPA REQUIREMENTS FOR SITES WHERE ONE (1) ACRE OR MORE (UNLESS THE LOCAL JURISDICTION REQUIRES FEWER) IS DISTURBED BY CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT ALL ACTIVITIES, INCLUDING THOSE OF SUBCONTRACTORS, ARE IN COMPLIANCE WITH THE SWPPP, INCLUDING BUT NOT LIMITED TO	GRADE ALONG CURB FACE. IT SHALL BE THE CONTRACTOR'S OBLIGATION TO ENSURE THAT DESIGN ENGINEER APPROVES FINAL CURBING CUT SHEETS PRIOR TO INSTALLATION (19. REFER TO THIS SHEET FOR ADDITIONAL NOTES.
LOGGING ACTIVITIES (MINIMUM ONCE PER WEEK AND AFTER RAINFALL EVENTS) AND CORRECTIVE MEASURES, AS APPROPRIATE. 29. AS CONTAINED IN THESE DRAWINGS AND ASSOCIATED APPLICATION DOCUMENTS PREPARED BY THE SIGNATORY PROFESSIONAL ENGINEER, THE USE OF THE WORDS CERTIFY OR CERTIFICATION CONSTITUTES AN EXPRESSION OF "PROFESSIONAL OPINION" REGARDING THE INFORMATION WHICH IS THE SUBJECT OF THE UNDERSIGNED PROFESSIONAL'S KNOWLEDGE OR BELIEF AND IN ACCORDANCE WITH COMMON ACCEPTED PROCEDURE CONSISTENT WITH THE APPLICABLE STANDARDS OF	 IN THE EVENT OF DISCREPANCIES AND/OR CONFLICTS BETWEEN PLANS OR RELATIVE TO OTHER PLANS, THE SITE PLAN SHALL TAKE PRECEDENCE AND CONTROL. CONTRAC IMMEDIATELY NOTIFY THE DESIGN ENGINEER, IN WRITING, OF ANY DISCREPANCIES AND/OR CONFLICTS. CONTRACTOR SHALL BE REQUIRED TO SECURE ALL NECESSARY AND/OR REQUIRED PERMITS AND APPROVALS FOR ALL OFF SITE MATERIAL SOURCES AND DISPOSAL
GENERAL DEMOLITION NOTES	CONTRACTOR SHALL SUPPLY A COPY OF APPROVALS TO ENGINEER AND OWNER PRIOR TO INITIATING ANY WORK. 22. WHERE RETAINING WALLS (WHETHER OR NOT THEY MEET THE JURISDICTIONAL DEFINITION) ARE IDENTIFIED ON PLANS, ELEVATIONS IDENTIFIED ARE FOR THE EXPOSED PORT WALL FOOTINGS/FOUNDATION ELEVATIONS ARE NOT IDENTIFIED HEREIN AND ARE TO BE SET/DETERMINED BY THE CONTRACTOR BASED ON FINAL STRUCTURAL DE
 CONTRACTOR SHALL PERFORM ALL WORK IN ACCORDANCE WITH THE REQUIREMENTS OF THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970, AS AMENDED AND ANY MODIFICATIONS, AMENDMENTS OR REVISIONS TO SAME. THE ENGINEER HAS NO CONTRACTUAL, LEGAL, OR OTHER RESPONSIBILITY FOR JOB SITE SAFETY OR JOB SITE SUPERVISION, OR ANYTHING RELATED TO SAME. 	DRAWINGS PREPARED BY THE APPROPRIATE PROFESSIONAL LICENSED IN THE STATE WHERE THE CONSTRUCTION OCCURS. 23. STORM DRAINAGE PIPE: UNLESS INDICATED OTHERWISE, ALL STORM SEWER PIPE SHALL BE REINFORCED CONCRETE PIPE (RCP) CLASS III WITH SILT TIGHT JOINTS. WHEN HIL 24. STORM DRAINAGE PIPE: UNLESS INDICATED OTHERWISE, ALL STORM SEWER PIPE SHALL BE REINFORCED CONCRETE PIPE (RCP) CLASS III WITH SILT TIGHT JOINTS. WHEN HIL 25. STORM DRAINAGE PIPE: UNLESS INDICATED OTHERWISE, ALL STORM SEWER PIPE SHALL BE REINFORCED CONCRETE PIPE (RCP) CLASS III WITH SILT TIGHT JOINTS. WHEN HIL 26. STORM DRAINAGE PIPE: UNLESS INDICATED OTHERWISE, ALL STORM SEWER PIPE SHALL BE REINFORCED CONCRETE PIPE (RCP) CLASS III WITH SILT TIGHT JOINTS. WHEN HIL 26. STORM DRAINAGE PIPE: UNLESS INDICATED OTHERWISE, ALL STORM SEWER PIPE SHALL BE REINFORCED CONCRETE PIPE (RCP) CLASS III WITH SILT TIGHT JOINTS. WHEN HIL 26. STORM DRAINAGE PIPE: UNLESS INDICATED OTHERWISE, ALL STORM SEWER PIPE SHALL BE REINFORCED CONCRETE PIPE (RCP) CLASS III WITH SILT TIGHT JOINTS. WHEN HIL 26. STORM DRAINAGE PIPE: UNLESS INDICATED OTHERWISE, ALL STORM SEWER PIPE SHALL BE REINFORCED CONCRETE PIPE (RCP) CLASS III WITH SILT TIGHT JOINTS. WHEN HIL 26. STORM DRAINAGE PIPE: UNLESS INDICATED OTHERWISE, ALL STORM SEWER PIPE SHALL BE REINFORCED CONCRETE PIPE (RCP) CLASS III WITH SILT TIGHT JOINTS. WHEN HIL 26. STORM DRAINAGE PIPE: STORM DRAINAGE PIPE SHALL BE REINFORCED CONCRETE PIPE (RCP) PIPE AND DRAINAGE PIPE SHALL BE REINFORCED CONCRETE PIPE (RCP) PIPE AND DRAINAGE PIPE SHALL BE REINFORCED CONCRETE PIPE (RCP) PIPE AND PIPE PIPE SHALL BE REINFORCED CONCRETE PIPE (RCP) PIPE AND PIPE PIPE SHALL BE REINFORCED CONCRETE PIPE SHALL BE REINFORCED PIPE SHALL BE REINFORCED CONCRETE PIPE
3. THE DEMOLITION PLAN IS INTENDED TO PROVIDE GENERAL INFORMATION, ONLY, REGARDING ITEMS TO BE DEMOLISHED AND/OR REMOVED. THE CONTRACTOR SHALL ALSO REVIEW THE OTHER SITE PLAN DRAWINGS AND INCLUDE IN DEMOLITION ACTIVITIES ALL INCIDENTAL WORK NECESSARY FOR THE CONSTRUCTION OF THE NEW SITE IMPROVEMENTS.	 24. UNLESS INDICATED OTHERWISE ON THE DRAWINGS, SANITARY SEWER PIPE SHALL BE AS FOLLOWS: FOR PIPES LESS THAN 12 FT. DEEP: POLYVINYL CHLORIDE (PVC) SDR 35
4. CONTRACTOR SHALL RAISE ANY QUESTIONS CONCERNING THE ACCURACY OR INTENT OF THESE PLANS OR SPECIFICATIONS, CONCERNS REGARDING THE APPLICABLE SAFETY STANDARDS, OR THE SAFETY OF THE CONTRACTOR OR THIRD PARTIES IN PERFORMING THE WORK ON THIS PROJECT, WITH THE ENGINEER, IN WRITING, AND RESPONDED TO BY THE ENGINEER, IN WRITING, PRIOR TO THE INITIATION OF ANY SITE ACTIVITY AND ANY DEMOLITION ACTIVITY. ALL DEMOLITION ACTIVITIES SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THESE PLANS AND SPECIFICATIONS AND ALL APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS, RULES, REQUIREMENTS, STATUTES, ORDINANCES AND CODES.	 D3034, FOR PIPES MORE THAN 12 FT. DEEP: POLYVINYL CHLORIDE (PVC) SDR 26 PER ASTM D3034, FOR PIPE WITHIN 10 FT. OF BUILDING, PIPE MATERIAL SHALL COMPLY WITH J BUILDING AND PLUMBING CODES. CONTRACTOR TO VERIFY WITH LOCAL OFFICIALS. STORM AND SANITARY SEWER PIPE LENGTHS INDICATED ARE NOMINAL AND MEASURED CENTER OF INLET AND/OR MANHOLES STRUCTURE TO CENTER OF STRUCTURE.
5. PRIOR TO STARTING ANY DEMOLITION, CONTRACTOR SHALL BE RESPONSIBLE FOR/TO: A. OBTAINING ALL REQUIRED PERMITS AND MAINTAINING THE SAME ON SITE FOR REVIEW BY THE ENGINEER AND OTHER PUBLIC AGENCIES WITH JURISDICTION THROUGHOUT THE DURATION OF THE PROJECT, SITE WORK, AND DEMOLITION WORK.	26. STORMWATER ROOF DRAIN LOCATIONS ARE BASED ON PRELIMINARY ARCHITECTURAL PLANS. CONTRACTOR SHALLBE RESPONSIBLE TO AND FOR VERIFYING LOCATIONS OF S ON FINAL ARCHITECTURAL PLANS.
B. NOTIFYING, AT A MINIMUM, THE MUNICIPAL ENGINEER, DESIGN ENGINEER, AND LOCAL SOIL CONSERVATION DISTRICT, 72 HOURS PRIOR TO THE START OF WORK.	27. SEWERS CROSSING STREAMS AND/OR LOCATION WITHIN 10 FEET OF THE STREAM EMBANKMENT, OR WHERE SITE CONDITIONS SO INDICATE, SHALL BE CONSTRUCTED REINFORCED CONCRETE, DUCTILE IRON OR OTHER SUITABLE MATERIAL. SEWERS CONVEYING SANITARY FLOW COMBINED SANITARY AND STORMWATER FLOW OR INDUSTRIAL F BE SEPARATED FROM WATER MAINS BY A DISTANCE OF AT LEAST 10 FEET HORIZONTALLY. IF SUCH LATERAL SEPARATION IS NOT POSSIBLE, THE PIPES SHALL BE IN SEPARATE
D. IN ACCORDANCE WITH STATE LAW, THE CONTRACTOR SHALL CALL THE STATE ONE-CALL DAMAGE PROTECTION SYSTEM FOR UTILITY MARKOUT, IN ADVANCE OF ANY EXCAVATION.	WITH THE SEMERAT LEAST 18 INCHES BELOW THE BOTTOM OF THE WATER MAIN, OR SUCH OTHER SEPARATION AS APPROVED BY THE GOVERNMENT AGENCY WITH JURISDIC SAME.WHERE APPROPRIATE SEPARATION FROM A WATER MAIN IS NOT POSSIBLE, THE SEWER SHALL BE ENCASED IN CONCRETE, OR CONSTRUCTED OF DUCTILE IRON MECHANICAL OR SLIP-ON JOINTS FOR A DISTANCE OF AT LEAST 10 FEET ON EITHER SIDE OF THE CROSSING. IN ADDITION, ONE FULL LENGTH OF SEWER PIPE SHALL BE LOCATE JOINTS WILL BE AS FAR FROM THE WATER LINE AS POSSIBLE. WHERE A WATER MAIN CROSSES UNDER A SEWER, ADEQUATE STRUCTURAL SUPPORT FOR THE SEWER SHALL BE F
E. LOCATING AND PROTECTING ALL UTILITIES AND SERVICES, INCLUDING BUT NOT LIMITED TO GAS, WATER, ELECTRIC, SANITARY AND STORMWATER, TELEPHONE, CABLE, FIBER OPTIC CABLE, ETC. WITHIN AND ADJACENT TO THE LIMITS OF PROJECT ACTIVITIES. THE CONTRACTOR SHALL USE AND COMPLY WITH THE REQUIREMENTS OF THE APPLICABLE UTILITY NOTIFICATION SYSTEM TO LOCATE ALL THE UNDERGROUND UTILITIES. E. PROTECTING AND MAINTAINING IN OPERATION, ALL ACTIVE UTILITIES AND SYSTEMS THAT ARE NOT BEING REMOVED DURING ALL DEMOLITION ACTIVITIES.	28. WATER MAIN PIPING SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS AND SPECIFICATIONS OF THE LOCAL WATER COMPANY. IN THE ABSENCE OF SUCH REQUIREMENTS AND SPECIFICATIONS OF THE LOCAL WATER COMPANY. IN THE ABSENCE OF SUCH REQUIREMENTS AND SPECIFICATIONS OF THE LOCAL WATER COMPANY. IN THE ABSENCE OF SUCH REQUIREMENTS AND SPECIFICATIONS OF THE LOCAL WATER COMPANY. IN THE ABSENCE OF SUCH REQUIREMENTS AND SPECIFICATIONS OF THE LOCAL WATER COMPANY. IN THE ABSENCE OF SUCH REQUIREMENTS AND SPECIFICATIONS OF THE LOCAL WATER COMPANY. IN THE ABSENCE OF SUCH REQUIREMENTS AND SPECIFICATIONS OF THE LOCAL WATER COMPANY. IN THE ABSENCE OF SUCH REQUIREMENTS AND SPECIFICATIONS OF THE LOCAL WATER COMPLY WITH THE APPLICABLE AWWAS SIN EFFECT AT THE TIME OF APPLICATION.
G. ARRANGING FOR AND COORDINATING WITH THE APPLICABLE UTILITY SERVICE PROVIDER(S) FOR THE TEMPORARY OR PERMANENT TERMINATION OF SERVICE REQUIRED BY THE PROJECT PLANS AND SPECIFICATIONS. THE CONTRACTOR SHALL PROVIDE THE UTILITY ENGINEER AND OWNER WRITTEN NOTIFICATION THAT THE EXISTING UTILITIES AND SERVICES HAVE BEEN TERMINATED AND ABANDONED IN ACCORDANCE WITH JURISDICTIONAL AND UTILITY COMPANY REQUIREMENTS.	29. CONTRACTOR SHALL ENSURE THAT ALL UTILITY TRENCHES LOCATED IN EXISTING PAVED ROADWAYS AND PARKING LOTS INCLUDING WATER AND ELECTRICAL CONDUITS REPAIRED IN ACCORDANCE WITH REFERENCED MUNICIPAL, COUNTY AND/OR DOT DETAILS AS APPLICABLE. CONTRACTOR SHALL COORDINATE INSPECTION AND APPROVAL OF (WORK WITH THE AGENCY WITH JURISDICTION OVER SAME.
H. COORDINATION WITH UTILITY COMPANIES REGARDING WORKING "OFF-PEAK" HOURS OR ON WEEKENDS AS MAY BE REQUIRED TO MINIMIZE THE IMPACT ON THE AFFECTED PARTIES. WORK REQUIRED TO BE DONE "OFF-PEAK" IS TO BE DONE AT NO ADDITIONAL COST TO THE OWNER.	30. LOCATION OF PROPOSED UTILITY POLE RELOCATION IS AT THE SOLE DISCRETION OF UTILITY COMPANY. 31. CONSULTANT IS NEITHER LIABLE NOR RESPONSIBLE FOR ANY SUBSURFACE CONDITIONS AND FURTHER SHALL HAVE NO LIABILITY FOR ANY HAZARDOUS MATERIALS.
I. IN THE EVENT THE CONTRACTOR DISCOVERS ANY HAZARDOUS MATERIAL, THE REMOVAL OF WHICH IS NOT ADDRESSED IN THE PROJECT PLANS AND SPECIFICATIONS, THE CONTRACTOR SHALL IMMEDIATELY CEASE ALL WORK AND IMMEDIATELY NOTIFY THE OWNER AND ENGINEER OF THE DISCOVERY OF SUCH MATERIALS.	SUBSTANCES, OR POLLUTANTS ON, ABOUT OR UNDER THE PROPERTY.
7. THE FIRM OR ENGINEER OF RECORD IS NOT RESPONSIBLE FOR JOB SITE SAFETY OR SUPERVISION. CONTRACTOR SHALL PROCEED WITH THE DEMOLITION IN A SYSTEMATIC AND SAFE MANNER, FOLLOWING ALL THE OSHA REQUIREMENTS, TO ENSURE PUBLIC AND CONTRACTOR SAFETY.	
8. THE CONTRACTOR SHALL PROVIDE ALL "MEANS AND METHODS" NECESSARY TO PREVENT MOVEMENT, SETTLEMENT, OR COLLAPSE OF EXISTING STRUCTURES, AND ANY OTHER IMPROVEMENTS THAT ARE REMAINING ON OR OFF SITE. THE CONTRACTOR IS RESPONSIBLE FOR ALL REPAIRS OF DAMAGE TO ALL ITEMS THAT ARE TO REMAIN. CONTRACTOR SHALL USE NEW MATERIAL FOR ALL REPAIRS. CONTRACTOR'S REPAIR SHALL INCLUDE THE RESTORATION OF ANY ITEMS REPAIRED TO THE PRE-DEMOLITION CONDITION, OR BETTER. CONTRACTOR SHALL PERFORM ALL REPAIRS AT THE CONTRACTOR'S SOLE EXPENSE.	ADA INSTRUCTIONS TO CONTRACTOR: CONTRACTORS SHALL EXERCISE APPROPRIATE CARE AND PRECISION IN CONSTRUCTION OF ADA (ACCESSIBLE) ACCESSIBLE COMPONENTS AND ACCESS ROUTES
9. THE CONTRACTOR SHALL NOT PERFORM ANY EARTH MOVEMENT ACTIVITIES, DEMOLITION OR REMOVAL OF FOUNDATION WALLS, FOOTINGS, OR OTHER MATERIALS WITHIN THE LIMITS OF DISTURBANCE UNLESS SAME IS IN STRICT ACCORDANCE AND CONFORMANCE WITH THE PROJECT PLANS AND SPECIFICATIONS, AND/OR UNDER THE WRITTEN DIRECTION OF THE OWNER'S STRUCTURAL OR GEOTECHNICAL ENGINEER.	SITE. THESE COMPONENTS, AS CONSTRUCTED, SHALL COMPLY WITH ALL APPLICABLE STATE AND LOCAL ACCESSIBILITY LAWS AND REGULATIONS AND THE CURRE AND/OR STATE ARCHITECTURAL ACCESS BOARD STANDARDS AND REGULATIONS' BARRIER FREE ACCESS AND ANY MODIFICATIONS, REVISIONS OR UPDATES TO SA FINISHED SURFACES ALONG THE ACCESSIBLE ROUTE OF TRAVEL FROM PARKING SPACE, PUBLIC TRANSPORTATION, PEDESTRIAN ACCESS, INTER-BUILDING ACCESS PRIVATE AND ADDRESS AND ADDRESS AND ADDRESS AND AND ADDRESS ADDRESS AND ADDRESS ADDRESS ADDRESS ADDRESS ADDRESS ADDRESS ADDRESS
10. CONTRACTOR SHALL BACKFILL ALL EXCAVATION RESULTING FROM, OR INCIDENTAL TO, DEMOLITION ACTIVITIES. BACKFILL SHALL BE ACCOMPLISHED WITH APPROVED BACKFILL MATERIALS, AND SHALL BE SUFFICIENTLY COMPACTED TO SUPPORT NEW IMPROVEMENTS AND PERFORMED IN COMPLIANCE WITH THE RECOMMENDATIONS AND GUIDANCE IN THE GEOTECHNICAL REPORT. BACKFILLING SHALL OCCUR IMMEDIATELY AFTER DEMOLITION ACTIVITIES, AND SHALL BE DONE SO AS TO PREVENT WATER ENTERING THE EXCAVATION. FINISHED SURFACES SHALL BE GRADED TO PROMOTE POSITIVE DRAINAGE.	 POINTS OF ACCESSIBLE BUILDING ENTRANCE/EXIT, SHALL COMPLY WITH THESE ADA AND/OR ARCHITECTURAL ACCESS BOARD CODE REQUIREMENTS. THESE INCL ARE NOT LIMITED TO THE FOLLOWING: PARKING SPACES AND PARKING AISI ES - SLOPE SHALL NOT EXCEED 1:50 (1/4" PER FOOT OR NOMINALLY 2.0%) IN ANY DIRECTION
11. EXPLOSIVES SHALL NOT BE USED WITHOUT PRIOR WRITTEN CONSENT OF BOTH THE OWNER AND ALL APPLICABLE GOVERNMENTAL AUTHORITIES. ALL THE REQUIRED PERMITS AND EXPLOSIVE CONTROL MEASURES THAT ARE REQUIRED BY THE FEDERAL, STATE, AND LOCAL GOVERNMENTS SHALL BE IN PLACE PRIOR TO CONTRACTOR STARTING AN EXPLOSIVE PROGRAM AND/OR ANY DEMOLITION. THE CONTRACTOR IS ALSO RESPONSIBLE FOR ALL INSPECTION AND SEISMIC VIBRATION TESTING THAT IS REQUIRED TO MONITOR THE EFFECTS ON ALL LOCAL STRUCTURES.	• CURB RAMPS - SLOPE SHALL NOT EXCEED 1:12 (8.3%) FOR A MAXIMUM OF SIX (6) FEET.
12. CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL AND GENERALLY ACCEPTED SAFE PRACTICES IN CONFORMANCE WITH THE CURRENT FHWA "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD), AND THE FEDERAL, STATE, AND LOCAL REGULATIONS WHEN DEMOLITION RELATED ACTIVITIES IMPACT ROADWAYS AND/OR ROADWAY RIGHT-OF-WAY.	LANDINGS - SHALL BE PROVIDED AT EACH END OF RAMPS, SHALL PROVIDE POSITIVE DRAINAGE, AND SHALL NOT EXCEED 1:50 (1/4" PER FOOT OR NOMINALLY 2.0 DIRECTION. PATH OF TRAVEL ALONG ACCESSIBLE ROUTE - SHALL PROVIDE A 36-INCH OP OPERATED UNIOPSTPLICTED MUDTH OF TRAVEL (CAR OVERLANCE AND/OP UP
13. CONTRACTOR SHALL CONDUCT DEMOLITION ACTIVITIES IN SUCH A MANNER TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, SIDEWALKS, WALKWAYS, AND OTHER ADJACENT FACILITIES. STREET CLOSURE PERMITS SHALL BE RECEIVED FROM THE APPROPRIATE GOVERNMENTAL AUTHORITY PRIOR TO THE COMMENCEMENT OF ANY ROAD OPENING OR DEMOLITION ACTIVITIES IN OR ADJACENT TO THE RIGHT-OF-WAY.	CANNOT REDUCE THIS MINIMUM WIDTH). THE SLOPE SHALL BE NO GREATER THAN 1:20 (5.0%) IN THE DIRECTION OF TRAVEL (CAR OVERHANGS AND/OR H OR NOMINALLY 2.0%) IN CROSS SLOPE. WHERE PATH OF TRAVEL WILL BE GREATER THAN 1:20 (5.0%), ADA RAMP SHALL BE ADHERED TO. A MAXIMUM SLOP (8.3%), FOR A MAXIMUM RISE OF 2.5 FEET, SHALL BE PROVIDED. THE RAMP SHALL HAVE ADA HAND RAILS AND "LEVEL" LANDINGS ON EACH END THAT ARE CROSS NO MORE THAN 450 IN ANY DIFFERENCE OF A DESCRIPTION OF THE RAMP SHALL HAVE ADA HAND RAILS AND "LEVEL" LANDINGS ON EACH END THAT ARE CROSS
 14. DEMOLITION ACTIVITIES AND EQUIPMENT SHALL NOT USE AREAS OUTSIDE THE DEFINED PROJECT LIMIT LINE, WITHOUT WRITTEN PERMISSION OF THE OWNER AND ALL GOVERNMENTAL AGENCIES WITH JURISDICTION. 15. THE CONTRACTOR SHALL USE DUST CONTROL MEASURES TO LIMIT AIRBORNE DUST AND DIRT RISING AND SCATTERING IN THE AIR IN ACCORDANCE WITH FEDERAL, STATE, AND/OR LOCAL STANDARDS. AFTER THE DEMOLITION IS COMPLETE, CONTRACTOR SHALL CLEAN ALL ADJACENT STRUCTURES AND IMPROVEMENTS TO REMOVE ALL DUST AND DEBRIS CAUSED BY THE DEMOLITION OPERATIONS. THE CONTRACTOR IS RESPONSIBLE FOR RETURNING ALL ADJACENT AREAS TO THEIR 	 NO MORE THAN 1:50 IN ANY DIRECTION (1/4" PER FOOT OR NOMINALLY 2.0%) FOR POSITIVE DRAINAGE. DOORWAYS - SHALL HAVE A "LEVEL" LANDING AREA ON THE EXTERIOR SIDE OF THE DOOR THAT IS SLOPED AWAY FROM THE DOOR NO MORE THAN 1:50 (1/4" OR NOMINALLY 2.0%) FOR POSITIVE DRAINAGE. THIS LANDING AREA SHALL BE NO LESS THAN 60 INCHES (5 FEET) LONG. EXCEPT WHERE OTHERWISE REDAMITED
"PRE-DEMOLITION" CONDITION. 16. CONTRACTOR SHALL BE RESPONSIBLE TO SAFEGUARD THE SITE AS NECESSARY TO PERFORM THE DEMOLITION IN SUCH A MANNER AS TO PREVENT THE ENTRY OF UNAUTHORIZED PERSONS AT ANY TIME.	 STANDARDS FOR ALTERNATIVE DOORWAY OPENING CONDITIONS. (SEE ICC/ANSI A117.1-2003 AND OTHER REFERENCED INCORPORATED BY CODE.) WHEN THE PROPOSED CONSTRUCTION INVOLVES RECONSTRUCTION, MODIFICATION, REVISION OR EXTENSION OF OR TO ADA COMPONENTS FROM EXISTING D
17. CONTRACTOR SHALL BE RESPONSIBLE FOR SITE JOB SAFETY, WHICH SHALL INCLUDE, BUT NOT BE LIMITED TO, THE INSTALLATION AND MAINTENANCE OF BARRIERS, FENCING AND OTHER APPROPRIATE SAFETY ITEMS NECESSARY TO PROTECT THE PUBLIC FROM AREAS OF CONSTRUCTION AND CONSTRUCTION ACTIVITY.	OR SURFACES, CONTRACTOR SHALL VERIFY EXISTING ELEVATIONS SHOWN ON THE PLAN. NOTE THAT TABLE 405.2 OF THE DEPARTMENT OF JUSTICE'S ADA ST FOR ACCESSIBLE DESIGN ALLOWS FOR STEEPER RAMP SLOPES, IN RARE CIRCUMSTANCES. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE DESIGN ENC ANY DISCREPANCIES AND/OR FIELD CONDITIONS THAT DIFFER IN ANY WAY OR ANY RESPECT FROM WHAT IS SHOWN ON THE PLANS, IN WRITING COMMENCEMENT OF WORK CONSTRUCTED IMPROVEMENTS SHALL FAIL WITHIN THE MAXIMUM AND MINIMUM IMITATIONS IMPOSED BY THE PARTY
18. THIS DEMOLITION PLAN IS INTENDED TO IDENTIFY THOSE EXISTING ITEMS/CONDITIONS WHICH ARE TO BE REMOVED. IT IS NOT INTENDED TO PROVIDE DIRECTION AS TO THE MEANS, METHODS, SEQUENCING, TECHNIQUES AND PROCEDURES TO BE USED TO ACCOMPLISH THAT WORK. ALL MEANS, METHODS, SEQUENCING, TECHNIQUES AND PROCEDURES TO BE USED SHALL BE IN STRICT ACCORDANCE WITH ALL STATE, FEDERAL, LOCAL, AND JURISDICTIONAL REQUIREMENTS. THE CONTRACTOR SHALL COMPLY WITH ALL OSHA AND OTHER SAFETY PRECAUTIONS NECESSARY TO PROVIDE A SAFE WORK SITE.	 THE CONTRACTOR SHALL VERIFY THE SLOPES OF CONTRACTOR'S FORMS PRIOR TO POURING CONCRETE. IF ANY NON-CONFORMANCE IS OBSERVED OF
19. DEBRIS SHALL NOT BE BURIED ON THE SUBJECT SITE. ALL DEMOLITION WASTES AND DEBRIS (SOLID WASTE) SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL MUNICIPAL, COUNTY, STATE, AND FEDERAL LAWS AND APPLICABLE CODES. THE CONTRACTOR SHALL MAINTAIN RECORDS TO DEMONSTRATE PROPER DISPOSAL ACTIVITIES, TO BE PROMPTLY PROVIDED TO THE OWNER UPON REQUEST.	CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER PRIOR TO POURING CONCRETE. CONTRACTOR IS RESPONSIBLE FOR ALL COSTS TO REMOVE, RE REPLACE NON-CONFORMING CONCRETE.
20. CONTRACTOR SHALL MAINTAIN A RECORD SET OF PLANS UPON WHICH IS INDICATED THE LOCATION OF EXISTING UTILITIES THAT ARE CAPPED, ABANDONED IN PLACE, OR RELOCATED DUE TO DEMOLITION ACTIVITIES. THIS RECORD DOCUMENT SHALL BE PREPARED IN A NEAT AND WORKMAN-LIKE MANNER. AND TURNED OVER TO THE OWNER/DEVELOPER UPON COMPLETION OF THE WORK.	11 IS STRUNGLY RECOMMENDED THAT THE CONTRACTOR REVIEW THE INTENDED CONSTRUCTION WITH THE LOCAL BUILDING CODE PRIOR TO COMMENCEMENT OF CONSTRUCTION.

DING & UTILITY PLAN NOTES

INS OF ALL EXISTING AND PROPOSED SERVICES ARE APPROXIMATE AND SHALL BE INDEPENDENTLY CONFIRMED WITH LOCAL UTILITY COMPANIES PRIOR TO COMMENCEMENT OF RUCTION OR EXCAVATION. SANITARY SEWER AND ALL OTHER UTILITY SERVICE CONNECTION POINTS SHALL BE INDEPENDENTLY CONFIRMED BY THE CONTRACTOR IN THE FIELD THE COMMENCEMENT OF CONSTRUCTION. ALL DISCREPANCIES SHALL IMMEDIATELY BE REPORTED, IN WRITING, TO THE ENGINEER. CONSTRUCTION SHALL COMMENCE IG AT THE LOWEST INVERT (POINT OF CONNECTION) AND PROGRESS UP GRADIENT. PROPOSED INTERFACE POINTS (CROSSINGS) WITH EXISTING UNDERGROUND UTILITIES SHALL VERIFIED BY TEST PIT PRIOR TO COMMENCEMENT OF CONSTRUCTION.

CTOR SHALL VERTICALLY AND HORIZONTALLY LOCATE ALL UTILITIES AND SERVICES INCLUDING, BUT NOT LIMITED TO, GAS, WATER, ELECTRIC, SANITARY SEWER AND STORMWATER, DNE, CABLE, FIBER OPTIC CABLE, ETC. WITHIN THE LIMITS OF DISTURBANCE OR WORK SPACE, WHICHEVER IS GREATER. THE CONTRACTOR SHALL USE, REFER TO, AND COMPLY REQUIREMENTS OF THE APPLICABLE UTILITY NOTIFICATION SYSTEM TO LOCATE ALL THE UNDERGROUND UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING AGE TO ANY EXISTING UTILITIES DURING CONSTRUCTION, AT NO COST TO THE OWNER. CONTRACTOR SHALL BEAR ALL COSTS ASSOCIATED WITH DAMAGE TO ANY EXISTING DURING CONSTRUCTION.

CONTRACTOR'S RESPONSIBILITY TO REVIEW ALL CONSTRUCTION CONTRACT DOCUMENTS INCLUDING, BUT NOT LIMITED TO, ALL OF THE DRAWINGS AND SPECIFICATIONS TED WITH THE PROJECT WORK SCOPE PRIOR TO THE INITIATION AND COMMENCEMENT OF CONSTRUCTION. SHOULD THE CONTRACTOR FIND A CONFLICT AND/OR DISCREPANCY THE DOCUMENTS RELATIVE TO THE SPECIFICATIONS OR THE RELATIVE OR APPLICABLE CODES, REGULATIONS, LAWS, RULES, STATUTES AND/OR ORDINANCES, IT IS THE CTOR'S SOLE RESPONSIBILITY TO NOTIFY THE PROJECT ENGINEER OF RECORD, IN WRITING, OF SAID CONFLICT AND/OR DISCREPANCY PRIOR TO THE START OF CONSTRUCTION. CTOR'S FAILURE TO NOTIFY THE PROJECT ENGINEER SHALL CONSTITUTE CONTRACTOR'S FULL AND COMPLETE ACCEPTANCE OF ALL RESPONSIBILITY TO COMPLETE THE SCOPE OF DEFINED BY THE DRAWINGS AND IN FULL COMPLIANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS, LAWS, STATUTES, ORDINANCES AND CODES AND, FURTHER, CTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH SAME.

ITRACTOR SHALL LOCATE AND CLEARLY AND UNAMBIGUOUSLY DEFINE VERTICALLY AND HORIZONTALLY ALL ACTIVE AND INACTIVE UTILITY AND/OR SERVICE SYSTEMS THAT ARE TO OVED. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROTECT AND MAINTAIN ALL ACTIVE AND INACTIVE SYSTEMS THAT ARE NOT BEING REMOVED/RELOCATED DURING SITE

TRACTOR SHALL FAMILIARIZE ITSELF WITH THE APPLICABLE UTILITY SERVICE PROVIDER REQUIREMENTS AND SHALL BE RESPONSIBLE FOR ALL COORDINATION REGARDING UTILITY ION AS IDENTIFIED OR REQUIRED FOR THE PROJECT. THE CONTRACTOR SHALL PROVIDE THE OWNER WITH WRITTEN NOTIFICATION THAT THE EXISTING UTILITIES AND SERVICES EN TERMINATED AND ABANDONED IN ACCORDANCE WITH THE JURISDICTION AND UTILITY COMPANY REQUIREMENTS AND ALL OTHER APPLICABLE REQUIREMENTS, RULES, , LAWS, ORDINANCES AND CODES

CTOR SHALL BE RESPONSIBLE FOR COORDINATION OF SITE PLAN DOCUMENTS AND ARCHITECTURAL DESIGN FOR EXACT BUILDING UTILITY CONNECTION LOCATIONS. GREASE TRAP EMENTS/DETAILS, DOOR ACCESS, AND EXTERIOR GRADING. THE ARCHITECT WILL DETERMINE THE UTILITY SERVICE SIZES. THE CONTRACTOR SHALL COORDINATE INSTALLATION OF /SERVICES WITH THE INDIVIDUAL COMPANIES, TO AVOID CONFLICTS AND TO ENSURE THAT PROPER DEPTHS ARE ACHIEVED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THAT INSTALLATION OF ALL IMPROVEMENTS COMPLIES WITH ALL UTILITY REQUIREMENTS WITH JURISDICTION AND/OR CONTROL OF THE SITE, AND ALL OTHER APPLICABLE MENTS, RULES, STATUTES, LAWS, ORDINANCES AND CODES AND, FURTHER, SHALL BE RESPONSIBLE FOR COORDINATING THE UTILITY TIE-INS/CONNECTIONS PRIOR TO ING TO THE EXISTING UTILITY/SERVICE. WHERE A CONFLICT(S) EXISTS BETWEEN THESE SITE PLANS AND THE ARCHITECTURAL PLANS, OR WHERE ARCHITECTURAL PLAN UTILITY

LINE MATERIALS. BURIAL DEPTH. AND COVER REQUIREMENTS SHALL BE SPECIFIED BY THE LOCAL UTILITY COMPANY. CONTRACTOR'S PRICE FOR WATER LINE SHALL INCLUDE ALL INST AND APPURTENANCES REQUIRED BY THE UTILITY TO PROVIDE FULL AND COMPLETE WORKING SERVICE. CONTRACTOR SHALL CONTACT THE APPLICABLE MUNICIPALITY TO THE PROPER WATER METER AND VAULT, PRIOR TO COMMENCING CONSTRUCTION.

/ UTILITIES/SERVICES, INCLUDING ELECTRIC, TELEPHONE, CABLE TV, ETC. ARE TO BE INSTALLED UNDERGROUND. ALL NEW UTILITIES/SERVICES SHALL BE INSTALLED IN DANCE WITH THE UTILITY/SERVICE PROVIDER INSTALLATION SPECIFICATIONS AND STANDARDS

DING SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND THE RECOMMENDATIONS SET FORTH IN THE GEOTECHNICAL REPORT REFERENCED IN N SET. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND REPLACING UNSUITABLE MATERIALS WITH SUITABLE MATERIALS AS SPECIFIED IN THE GEOTECHNICAL . ALL EXCAVATED OR FILLED AREAS SHALL BE COMPACTED AS OUTLINED IN THE GEOTECHNICAL REPORT. MOISTURE CONTENT AT TIME OF PLACEMENT SHALL BE SUBMITTED IN A TION REPORT PREPARED BY A QUALIFIED GEOTECHNICAL ENGINEER REGISTERED WITH THE STATE WHERE THE WORK IS PERFORMED VERIFYING THAT ALL FILLED AREAS AND DE AREAS WITHIN THE BUILDING PAD AREA AND AREAS TO BE PAVED HAVE BEEN COMPACTED IN ACCORDANCE WITH THESE PLANS, SPECIFICATIONS AND THE RECOMMENDATIONS RTH IN THE GEOTECHNICAL REPORT AND ALL APPLICABLE REQUIREMENTS, RULES, STATUTES, LAWS, ORDINANCES AND CODES. SUBBASE MATERIAL FOR SIDEWALKS, CURB, OR SHALL BE FREE OF ORGANICS AND OTHER UNSUITABLE MATERIALS. SHOULD SUBBASE BE DEEMED UNSUITABLE BY OWNER/DEVELOPER, OR OWNER/DEVELOPER'S NTATIVE, SUBBASE SHALL BE REMOVED AND FILLED WITH APPROVED FILL MATERIAL COMPACTED AS DIRECTED BY THE GEOTECHNICAL REPORT. EARTHWORK ACTIVITIES IG, BUT NOT LIMITED TO, EXCAVATION, BACKFILL, AND COMPACTING SHALL COMPLY WITH THE RECOMMENDATIONS IN THE GEOTECHNICAL REPORT AND ALL APPLICABLE MENTS, RULES, STATUTES, LAWS, ORDINANCES AND CODES. EARTHWORK ACTIVITIES SHALL COMPLY WITH THE STANDARD STATE DOT SPECIFICATIONS FOR ROADWAY CTION (LATEST EDITION) AND ANY AMENDMENTS OR REVISIONS THERETO

COMPACTION, AND BACKFILL MATERIALS REQUIRED FOR UTILITY INSTALLATION SHALL BE PER THE RECOMMENDATIONS PROVIDED IN THE GEOTECHNICAL REPORT AND SHALL BE IATED WITH THE APPLICABLE UTILITY COMPANY SPECIFICATIONS. WHEN THE PROJECT DOES NOT HAVE GEOTECHNICAL RECOMMENDATIONS, FILL AND COMPACTION SHALL, AT A , COMPLY WITH THE STATE DOT REQUIREMENTS AND SPECIFICATIONS AND CONSULTANT SHALL HAVE NO LIABILITY OR RESPONSIBILITY FOR OR AS RELATED TO FILL, COMPACTION KFILL. FURTHER, CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR EARTHWORK BALANCE.

TRACTOR SHALL COMPLY, TO THE FULLEST EXTENT, WITH THE LATEST OSHA STANDARDS AND REGULATIONS, AND/OR ANY OTHER AGENCY WITH JURISDICTION FOR EXCAVATION ICHING PROCEDURES. THE CONTRACTOR SHALL RESPONSIBLE FOR DETERMINING THE "MEANS AND METHODS" REQUIRED TO MEET THE INTENT AND PERFORMANCE CRITERIA OF WELL AS ANY OTHER ENTITY THAT HAS JURISDICTION FOR EXCAVATION AND/OR TRENCHING PROCEDURES AND CONSULTANT SHALL HAVE NO RESPONSIBILITY FOR OR AS FOR OR AS RELATED TO EXCAVATION AND TRENCHING PROCEDURES.

IT SHALL BE SAW CUT IN STRAIGHT LINES, AND EXCEPT FOR EDGE OF BUTT JOINTS, SHALL EXTEND TO THE FULL DEPTH OF THE EXISTING PAVEMENT. ALL DEBRIS FROM REMOVAL IONS SHALL BE REMOVED FROM THE SITE AT THE TIME OF EXCAVATION. STOCKPILING OF DEBRIS SHALL NOT BE PERMITTED.

S OF EXISTING MANHOLES, INLET STRUCTURES, AND SANITARY CLEANOUT TOPS SHALL BE ADJUSTED, AS NECESSARY, TO MATCH PROPOSED GRADES IN ACCORDANCE WITH ALL BLE STANDARDS, REQUIREMENTS, RULES, STATUTES, LAWS, ORDINANCES AND CODES. THE INSTALLATION OF ALL UTILITIES, THE CONTRACTOR SHALL MAINTAIN A CONTEMPORANEOUS AND THOROUGH RECORD OF CONSTRUCTION TO IDENTIFY THE AS-INSTALLED

NS OF ALL UNDERGROUND INFRASTRUCTURE. THE CONTRACTOR SHALL CAREFULLY NOTE ANY INSTALLATIONS THAT DEVIATE FROM THE INFORMATION CONTAINED IN THE UTILITY IS RECORD SHALL BE KEPT ON A CLEAN COPY OF THE DRAINAGE OR UTILITY PLAN, WHICH CONTRACTOR SHALL PROMPTLY PROVIDE TO THE OWNER AT THE COMPLETION OF

IE SITE IMPROVEMENT PLANS INVOLVE MULTIPLE BUILDINGS, SOME OF WHICH MAY BE BUILT AT A LATER DATE, THE CONTRACTOR SHALL EXTEND ALL LINES, INCLUDING BUT NOT STORMWATER, SANITARY SEWER, UTILITIES, AND IRRIGATION LINE, TO A POINT AT LEAST FIVE (5) FEET BEYOND THE PAVED AREAS FOR WHICH THE CONTRACTOR SHALL BE IBLE. CONTRACTOR SHALL CAP ENDS AS APPROPRIATE, MARK LOCATIONS WITH A 2X4, AND SHALL NOTE THE LOCATION OF ALL OF THE ABOVE ON A CLEAN COPY OF THE OR UTILITY PLAN, WHICH CONTRACTOR SHALL PROMPTLY PROVIDE TO THE OWNER UPON COMPLETION OF THE WORK.

NTRACTOR SHALL FULLY RESPONSIBLE FOR VERIFICATION OF EXISTING TOPOGRAPHIC INFORMATION AND UTILITY INVERT ELEVATIONS PRIOR TO COMMENCING ANY JCTION. CONTRACTOR SHALL CONFIRM AND ENSURE 0.75% MINIMUM SLOPE AGAINST ALL ISLANDS, GUTTERS, AND CURBS; 1.0% ON ALL CONCRETE SURFACES; AND 1.5% MINIMUM ALT (EXCEPT WHERE ADA REQUIREMENTS OR EXISTING TOPOGRAPHY LIMIT GRADES), TO PREVENT PONDING. CONTRACTOR SHALL IMMEDIATELY IDENTIFY, IN WRITING TO THE ANY DISCREPANCIES THAT MAY OR COULD AFFECT THE PUBLIC SAFETY, HEALTH OR GENERAL WELFARE, OR PROJECT COST. IF CONTRACTOR PROCEEDS WITH CONSTRUCTION PROVIDING PROPER NOTIFICATION, SHALL BE AT THE CONTRACTOR'S OWN RISK AND, FURTHER, CONTRACTOR SHALL INDEMNIFY, DEFEND AND HOLD HARMLESS THE DESIGN R FOR ANY DAMAGES COSTS INJURIES ATTORNEY'S FEES AND THE LIKE WHICH RESULT FROM SAME

ED TOP OF CURB ELEVATIONS ARE GENERALLY 6" ABOVE EXISTING LOCAL ASPHALT GRADE UNLESS OTHERWISE NOTED. FIELD ADJUST TO CREATE A MINIMUM OF .075% GUTTER LONG CURB FACE. IT SHALL BE THE CONTRACTOR'S OBLIGATION TO ENSURE THAT DESIGN ENGINEER APPROVES FINAL CURBING CUT SHEETS PRIOR TO INSTALLATION OF SAME. THIS SHEET FOR ADDITIONAL NOTES.

EVENT OF DISCREPANCIES AND/OR CONFLICTS BETWEEN PLANS OR RELATIVE TO OTHER PLANS, THE SITE PLAN SHALL TAKE PRECEDENCE AND CONTROL. CONTRACTOR SHALL

CTOR SHALL BE REQUIRED TO SECURE ALL NECESSARY AND/OR REQUIRED PERMITS AND APPROVALS FOR ALL OFF SITE MATERIAL SOURCES AND DISPOSAL FACILITIES. CTOR SHALL SUPPLY A COPY OF APPROVALS TO ENGINEER AND OWNER PRIOR TO INITIATING ANY WORK.

ETAINING WALLS (WHETHER OR NOT THEY MEET THE JURISDICTIONAL DEFINITION) ARE IDENTIFIED ON PLANS, ELEVATIONS IDENTIFIED ARE FOR THE EXPOSED PORTION OF THE VALL FOOTINGS/FOUNDATION ELEVATIONS ARE NOT IDENTIFIED HEREIN AND ARE TO BE SET/DETERMINED BY THE CONTRACTOR BASED ON FINAL STRUCTURAL DESIGN SHOP PREPARED BY THE APPROPRIATE PROFESSIONAL LICENSED IN THE STATE WHERE THE CONSTRUCTION OCCURS.

RAINAGE PIPE: UNLESS INDICATED OTHERWISE, ALL STORM SEWER PIPE SHALL BE REINFORCED CONCRETE PIPE (RCP) CLASS III WITH SILT TIGHT JOINTS. WHEN HIGH-DENSITY YLENE PIPE (HDPE) IS CALLED FOR ON THE PLANS, IT SHALL CONFORM TO AASHTO M294 AND TYPE S (SMOOTH INTERIOR WITH ANGULAR CORRUGATIONS) WITH GASKET FOR SILT NT. PVC PIPE FOR ROOF DRAIN CONNECTION SHALL BE SDR 26 OR SCHEDULE 40 UNLESS INDICATED OTHERWISE.

INDICATED OTHERWISE ON THE DRAWINGS, SANITARY SEWER PIPE SHALL BE AS FOLLOWS: FOR PIPES LESS THAN 12 FT. DEEP: POLYVINYL CHLORIDE (PVC) SDR 35 PER ASTM OR PIPES MORE THAN 12 FT. DEEP: POLYVINYL CHLORIDE (PVC) SDR 26 PER ASTM D3034. FOR PIPE WITHIN 10 FT. OF BUILDING, PIPE MATERIAL SHALL COMPLY WITH APPLICABLE G AND PLUMBING CODES. CONTRACTOR TO VERIFY WITH LOCAL OFFICIALS.

AND SANITARY SEWER PIPE LENGTHS INDICATED ARE NOMINAL AND MEASURED CENTER OF INLET AND/OR MANHOLES STRUCTURE TO CENTER OF STRUCTURE. ATER ROOF DRAIN LOCATIONS ARE BASED ON PRELIMINARY ARCHITECTURAL PLANS. CONTRACTOR SHALLBE RESPONSIBLE TO AND FOR VERIFYING LOCATIONS OF SAME BASED

ARCHITECTURAL PLANS. CROSSING STREAMS AND/OR LOCATION WITHIN 10 FEET OF THE STREAM EMBANKMENT, OR WHERE SITE CONDITIONS SO INDICATE, SHALL BE CONSTRUCTED OF STEEL, ED CONCRETE, DUCTILE IRON OR OTHER SUITABLE MATERIAL. SEWERS CONVEYING SANITARY FLOW COMBINED SANITARY AND STORMWATER FLOW OR INDUSTRIAL FLOW SHALL ATED FROM WATER MAINS BY A DISTANCE OF AT LEAST 10 FEET HORIZONTALLY. IF SUCH LATERAL SEPARATION IS NOT POSSIBLE, THE PIPES SHALL BE IN SEPARATE TRENCHES

E SEWER AT LEAST 18 INCHES BELOW THE BOTTOM OF THE WATER MAIN, OR SLICH OTHER SEPARATION AS APPROVED BY THE GOVERNMENT AGENCY WITH JURISDICTION OVER iere appropriate separation from a water main is not possible. The sewer shall be encased in concrete, or constructed of ductile iron pipe using IICAL OR SLIP-ON JOINTS FOR A DISTANCE OF AT LEAST 10 FEET ON EITHER SIDE OF THE CROSSING. IN ADDITION, ONE FULL LENGTH OF SEWER PIPE SHALL BE LOCATED SO BOTH WILL BE AS FAR FROM THE WATER LINE AS POSSIBLE. WHERE A WATER MAIN CROSSES UNDER A SEWER, ADEQUATE STRUCTURAL SUPPORT FOR THE SEWER SHALL BE PROVIDED.

MAIN PIPING SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS AND SPECIFICATIONS OF THE LOCAL WATER COMPANY. IN THE ABSENCE OF SUCH REQUIREMENTS, VAIN PIPING SHALL BE CEMENT-LINED DUCTILE IRON (DIP) MINIMUM CLASS 52 THICKNESS. ALL PIPE AND APPURTENANCES SHALL COMPLY WITH THE APPLICABLE AWWA STANDARDS CT AT THE TIME OF APPLICATION.

CTOR SHALL ENSURE THAT ALL UTILITY TRENCHES LOCATED IN EXISTING PAVED ROADWAYS AND PARKING LOTS INCLUDING WATER AND ELECTRICAL CONDUITS, SHALL BE IN ACCORDANCE WITH REFERENCED MUNICIPAL, COUNTY AND/OR DOT DETAILS AS APPLICABLE. CONTRACTOR SHALL COORDINATE INSPECTION AND APPROVAL OF COMPLETED /ITH THE AGENCY WITH JURISDICTION OVER SAME.

TANT IS NEITHER LIABLE NOR RESPONSIBLE FOR ANY SUBSURFACE CONDITIONS AND FURTHER, SHALL HAVE NO LIABILITY FOR ANY HAZARDOUS MATERIALS, HAZARDOUS ICES, OR POLLUTANTS ON, ABOUT OR UNDER THE PROPERTY.

INSTRUCTIONS TO CONTRACTOR

S SHALL EXERCISE APPROPRIATE CARE AND PRECISION IN CONSTRUCTION OF ADA (ACCESSIBLE) ACCESSIBLE COMPONENTS AND ACCESS ROUTES FOR THE OMPONENTS, AS CONSTRUCTED, SHALL COMPLY WITH ALL APPLICABLE STATE AND LOCAL ACCESSIBILITY LAWS AND REGULATIONS AND THE CURRENT ADA ARCHITECTURAL ACCESS BOARD STANDARDS AND REGULATIONS' BARRIER FREE ACCESS AND ANY MODIFICATIONS, REVISIONS OR UPDATES TO SAME. FACES ALONG THE ACCESSIBLE ROUTE OF TRAVEL FROM PARKING SPACE, PUBLIC TRANSPORTATION, PEDESTRIAN ACCESS, INTER-BUILDING ACCESS, TO ESSIBLE BUILDING ENTRANCE/EXIT, SHALL COMPLY WITH THESE ADA AND/OR ARCHITECTURAL ACCESS BOARD CODE REQUIREMENTS. THESE INCLUDE, BUT ED TO THE FOLLOWING:

SHALL BE PROVIDED AT EACH END OF RAMPS, SHALL PROVIDE POSITIVE DRAINAGE, AND SHALL NOT EXCEED 1:50 (1/4" PER FOOT OR NOMINALLY 2.0%) IN ANY

AVEL ALONG ACCESSIBLE ROUTE - SHALL PROVIDE A 36-INCH OR GREATER UNOBSTRUCTED WIDTH OF TRAVEL (CAR OVERHANGS AND/OR HANDRAILS DUCE THIS MINIMUM WIDTH). THE SLOPE SHALL BE NO GREATER THAN 1:20 (5.0%) IN THE DIRECTION OF TRAVEL, AND SHALL NOT EXCEED 1:50 (1/4" PER FOOT LY 2.0%) IN CROSS SLOPE. WHERE PATH OF TRAVEL WILL BE GREATER THAN 1:20 (5.0%), ADA RAMP SHALL BE ADHERED TO. A MAXIMUM SLOPE OF 1:12 A MAXIMUM RISE OF 2.5 FEET, SHALL BE PROVIDED. THE RAMP SHALL HAVE ADA HAND RAILS AND "LEVEL" LANDINGS ON EACH END THAT ARE CROSS SLOPED HAN 1:50 IN ANY DIRECTION (1/4" PER FOOT OR NOMINALLY 2.0%) FOR POSITIVE DRAINAGE.

SHALL HAVE A "LEVEL" LANDING AREA ON THE EXTERIOR SIDE OF THE DOOR THAT IS SLOPED AWAY FROM THE DOOR NO MORE THAN 1:50 (1/4" PER FOOT LY 2.0%) FOR POSITIVE DRAINAGE. THIS LANDING AREA SHALL BE NO LESS THAN 60 INCHES (5 FEET) LONG, EXCEPT WHERE OTHERWISE PERMITTED BY ADA S FOR ALTERNATIVE DOORWAY OPENING CONDITIONS. (SEE ICC/ANSI A117.1-2003 AND OTHER REFERENCED INCORPORATED BY CODE.)

PROPOSED CONSTRUCTION INVOLVES RECONSTRUCTION, MODIFICATION, REVISION OR EXTENSION OF OR TO ADA COMPONENTS FROM EXISTING DOORWAYS ES, CONTRACTOR SHALL VERIFY EXISTING ELEVATIONS SHOWN ON THE PLAN. NOTE THAT TABLE 405.2 OF THE DEPARTMENT OF JUSTICE'S ADA STANDARDS SIBLE DESIGN ALLOWS FOR STEEPER RAMP SLOPES. IN RARE CIRCUMSTANCES. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE DESIGN ENGINEER OF EPANCIES AND/OR FIELD CONDITIONS THAT DIFFER IN ANY WAY OR ANY RESPECT FROM WHAT IS SHOWN ON THE PLANS, IN WRITING, BEFORE MENT OF WORK. CONSTRUCTED IMPROVEMENTS SHALL FALL WITHIN THE MAXIMUM AND MINIMUM LIMITATIONS IMPOSED BY THE BARRIER FREE IS AND THE ADA REQUIREMENTS.

RACTOR SHALL VERIFY THE SLOPES OF CONTRACTOR'S FORMS PRIOR TO POURING CONCRETE. IF ANY NON-CONFORMANCE IS OBSERVED OR EXISTS, OR SHALL IMMEDIATELY NOTIFY THE ENGINEER PRIOR TO POURING CONCRETE. CONTRACTOR IS RESPONSIBLE FOR ALL COSTS TO REMOVE, REPAIR AND ON-CONFORMING CONCRETE.

GENERAL

BLSF
200' RA
100' RA
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TE	
	- BUILDING SETBACK
	SAWCUT LINE
CC/AC	CONC. CURB/ASPHAL
MCC	= MONOLITHIC CONC. C
SGC	SLOPED GRANITE CUE
VGC	
TC	
ССВ	
EOP	_ CAPE COD BERM
	 EDGE OF PAVEMENT
ENT/EXT	BUILDING ENTRANCE
	STANDARD STALL CC



6.

VAN

STOP

G

	EASEMENT
	INTERNAL LOT LINE
	WETLAND LINE
	BORDERING LAND SUBJECT TO FLOODING
	200' RIVERFRONT AREA
	100' RIVERFRONT AREA
	100' WETLAND BUFFER ZONE
	LIMIT OF DISTURBANCE
	BORING LOCATION
	MONITORING WELL
	TEST PIT LOCATION
	WETLAND FLAG
	BUILDING SETBACK
	SAWCUT LINE
	CONC. CURB/ASPHALT CURB
	MONOLITHIC CONC. CURB
_	SLOPED GRANITE CURB
	VERTICAL GRANITE CURB

STOP BAR

STANDARD STALL COUNT

TOTAL PARKING COUNT

ACCESSIBLE PARKING

VAN ACCESSIBLE PARKING

PROPERTY LINE

LEGEND

EROSION C

_____ SE_____ SE____

GRADING
53.52 TC=54.32 BC=53.82 50
UTILITIES G T E
W
S

c/0

PAVEMENT MARKING ARROW TRAFFIC SIGN BOLLARD PEDESTRIAN LIGHT POLE PARKING LOT LIGHT POLE UTILITY POLE ---- OH------ OVERHEAD WIRE

ABBREVIATIONS

STORM

RADIUS

MINIMUM

WIDE

|--|

	EROSION CONTROL BARRIER	BC	BOTTOM CURB	PROP.
		TC	TOP CURB	TBR/R
	STABILIZED CONSTRUCTION EXIT	BOC	BACK OF CURB	TBR
		BW	BOTTOM OF WALL GRADE	TPF
	INLET PROTECTION	TW	TOP OF WALL	BLDG.
		EXIST.	EXISTING	SF
		BM.	BENCHMARK	SMH
	SPOT SHOT	EOP	EDGE OF PAVEMENT	DMH
		ę	CENTERLINE	STM.
	PROP CONTOUR	FF	FINISHED FLOOR	SAN.
		V.I.F.	VERIFY IN FIELD	CONC.
	SLOPE	GC	GENERAL CONTRACTOR	ARCH.
-	RIDGE LINE	HP	HIGH POINT	DEP.
		LP	LOW POINT	R
		TYP.	TYPICAL	MIN.
	GAS LINE	INT.	INTERSECTION	MAX.
		PC.	POINT OF CURVATURE	No. / #
	WATER LINE	PT.	POINT OF TANGENCY	W.
	DRAINAGE LINE	PI.	POINT OF INTERSECTION	DEC.
	SEWER LINE	PVI.	POINT OF VERTICAL INTERSECTION	ELEV.
	TAPPING TEE	STA.	STATION	UNG.
	BEND W/ THRUSTBLOCK	GRT	GRATE	R.O.W.
		INV.	INVERT	LF
		DIP	DUCTILE IRON PIPE	LOD
	SQUARE CATCH BASIN	PVC	POLYVINYL CHLORIDE PIPE	LOW
	ROUND CATCH BASIN	HDPE	HIGH DENSITY POLYETHYLENE PIPE	L.S.A.
		RCP	REINFORCED CONCRETE PIPE	±
	CURB INLET	S	SLOPE	•
	DRAIN MANHOLE	ME	MEET EXISTING	Ø / DIA

Iting 33.33 018 η, MA 781.27 PROPOSED TO BE REMOVED AND REPLACED TO BE REMOVED TREE PROTECTION FENCE BUILDING 0 SQUARE FEET SEWER MANHOLE DRAIN MANHOLE SANITARY CONCRETE ARCHITECTURAL DEPRESSED OF MIS MAXIMUM ANTHONY NUMBER FARMAND NUMBER DECORATIVE PE-2012000032 ELEVATION ONAT UNDERGROUND 1 March 2022 Expiration 31 Dec 2022 RIGHT OF WAY LINEAR FOOT PRELIMINARY LIMIT OF DISTURBANCE LIMIT OF WORK LANDSCAPED AREA PLUS OR MINUS DEGREE DIAMETER Know what's **below**.

Call before you dig. X ,OPME EI

SHEET NO

SEWER MANHOLE

TRENCH DRAIN

CLEAN OUT

AREA DRAIN

DOUBLE GRATE CATCH BASIN





SHEET NO.



REFER TO GENERAL NOTES & LEGEND SHEET

THIS PLAN TO BE UTILIZED FOR SITE GRADING PURPOSES ONLY

1"= 20'

ALL WORK BEYOND THE LIMITS OF WORK SHOWN ARE TO BE DESIGNED AND CONSTRUCTED BY THE LANDLORD





Drawing: C:\USERS\SMDDRE\APPDATA\LDCAL\TEMP\ACPUBLISH_22336\UNSAVED_DRAVING2.DVG_Layout Tab: 05-UTIL, Date: 03/11/2022 Time: 12:58:52 PM,Plotted by: S



C:/USERS/SMDDRE\APPDATA\LDCAL\TEMP\ACPUBLISH_22336\UNSAVED DRAVING2.DWG Layout Tab: 06-DETAILS, Date: 03/11/2022 Time: 12:58:54 PM,Plotted by: SMDE

CHASE BANK **NEW STRUCTURE** 908 NW PRYOR RD., LEE'S SUMMIT, MO 64081

Sheet Index

Rev. / Issue

Sheet Title

- S0.0 COVER SHEET AND GENERAL NOTES
- S0.1 GENERAL NOTES
- GEN. NOTES, Q.A. AND SPECIAL INSPECTIONS S0.2 S1.0 FOUNDATION PLAN
- ROOF FRAMING PLAN S2.0

Sheet No.

- S3.0 STRUCTURAL DETAILS
- STRUCTURAL DETAILS S3.1
- STRUCTURAL DETAILS S4.0
- STRUCTURAL DETAILS S4.1 S4.2 STRUCTURAL DETAILS

Design Loads

GROUND FLOOR DEAD LOAD		
SLAB ON GRADE	SELF WEIGHT	
ROOF	DEAD LOADS	
ROOF MEMBRANE	0.5 PSF	
ROOF INSULATION	5 PSF (AVG.)	
ROOF SHEATHING	2.5 PSF (PLYWOOD), 2 PSF (STEEL)	
MEP	7 PSF	
CEILING	1.5 PSF	
TOTAL IMPOSED DL	16.5 PSF	
ROOF FRAMING	8.5 PSF	
DL w/ FRAMING	25 PSF	
LLr	20 PSF	
SL	20 PSF	
WB TYPE EXTERIOR WALLS (SEE ARCH.)	17 PSF	
WC TYPE EXTERIOR WALLS (SEE ARCH.)	13 PSF	
LIV		
1st FLOOR	100 PSF	
ROOF	20 PSF (REDUCIBLE)	

IBC Lateral Loads

OCCUPANCY CATEGORY	11		
WIND			
BASIC WIND SPEED	109 MPH		
IMPORTANCE FACTOR	IW = II		
EXPOSURE CATEGORY	C		
INTERNAL PRESSURE COEFFICIENT	GCPI = ±0.18		
CLADDING WIND PRESSURE	-17 PSF		
DESIGN WALL WIND PRESSURE	24 PSF		
DESIGN PARAPET WIND PRESSURE	58 PSF		
DESIGN ROOF UPLIFT	-20 PSF		
WIND MAX BASE SHEAR	V = 43.3K		

SEISMIC		
П		
I = 1.00		
D		

SPECTRAL RESPONSE COEFFICIENTS		
Sds	0.106	
S _{D1}	0.109	

MAPPED SPECTRAL RESPONSE ACCELERATION			
Ss	0.099		
S1	0.068		

SOIL FACTOR COEFFICIENTS			
Fa	1.6		
Fv	2.4		
STRUCTURAL SYSTEM	WOOD STRUCTURAL PANEL SHEATHED SHEAR WALLS, R=6.5		
SEISMIC BASE SHEAR	V = 2.64k		
ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE		
SEISMIC DESIGN CATEGORY	В		

General Notes

- ALL WORK SHALL CONFORM TO THE MINIMUM STANDARDS OF THE FOLLOWING CODES THE 2018 EDITION OF THE INTERNATIONAL BUILDING CODE (IBC), AND OTHER REGULATING AGENCIES WHICH HAVE AUTHORITY OVER ANY PORTION OF THE WORK, AND THOSE CODES AND STANDARDS LISTED IN THESE NOTES AND IN THE PROJECT SPECIFICATIONS.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO STARTING CONSTRUCTION. THE ARCHITECT SHALL BE NOTIFIED OF ANY DISCREPANCIES OR INCONSISTENCIES.
- STRUCTURE NOTED IN THE DRAWINGS AS EXISTING SHALL BE FIELD VERIFIED BY THE CONTRACTOR AND ANY DISCREPANCIES NOTED SHALL BE REPORTED TO THE ARCHITECT/STRUCTURAL ENGINEER
- DO NOT SCALE THE DRAWINGS.
- NOTES AND DETAILS ON THE DRAWINGS SHALL TAKE PRECEDENCE OVER THESE GENERAL NOTES, YPICAL DETAILS, AND THE PROJECT SPECIFICATIONS.
- TYPICAL DETAILS AND SCHEDULES INDICATED MAY NOT BE SPECIFICALLY REFERENCED ON THE DRAWINGS. THE CONTRACTOR IS RESPONSIBLE TO DETERMINE WHERE EACH TYPICAL DETAIL OR SCHEDULE APPLIES. IF LOCATIONS ARE FOUND WHERE NO TYPICAL DETAIL, TYPICAL SCHEDULE, OR SPECIFIC DETAIL APPLIES, NOTIFY THE ARCHITECT/STRUCTURAL ENGINEER.
- SEE THE ARCHITECTURAL DRAWINGS FOR THE FOLLOWING: SIZE AND LOCATION OF DOOR AND WINDOW OPENINGS, SIZE AND LOCATION OF INTERIOR AND EXTERIOR NONBEARING PARTITIONS, SIZE AND LOCATION OF CONCRETE CURBS, FLOOR DRAINS SLOPES, DEPRESSED AREAS, CHANGES IN LEVEL, CHAMFERS, GROOVES, INSERTS, ETC., SIZE AND LOCATION OF FLOOR AND ROOF OPENINGS, FLOOR AND ROOF FINISHES, STAIR FRAMING AND DETAILS, DIMENSIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS, CEILING ASSEMBLIES, EXTERIOR WALL ASSEMBLIES.
- SEE MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR THE FOLLOWING PIPES, SLEEVES, HANGERS, TRENCHES, WALL, FLOOR AND ROOF OPENINGS, DUCT PENETRATIONS ETC., EXCEPT AS SHOWN OR NOTED, ELECTRICAL CONDUIT RUNS, BOXES, OUTLETS IN WALLS AND SLABS, CONCRETE INSERTS FOR ELECTRICAL, MECHANICAL OR PLUMBING FIXTURES, SIZE AND LOCATION OF MACHINE OR EQUIPMENT BASES AND ANCHOR BOLTS FOR MOUNTS.
- FOR MECHANICAL AND ELECTRICAL EQUIPMENT ANCHORAGE TO BE DESIGNED BY OTHERS, SEE ASCE 7-16 SECTION 13.6. USE ISOLATORS, FASTENERS AND BRACING APPROVED BY ICC-ES CAPABLE OF TRANSMITTING CODE REQUIRED LATERAL LOADS. SECURE SUSPENDED EQUIPMENT WITH LATERAL BRACING.
- 10. FOR PIPING AND DUCTWORK BRACING TO BE DESIGNED BY OTHERS, SEE THE LATEST EDITION OF "GUIDELINES FOR SEISMIC RESTRAINTS OF MECHANICAL SYSTEMS" BY THE SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION.
- 11. THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE, THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION, CONTRACTOR TO PROVIDE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AS REQUIRED CONTRACTOR TO PROVIDE ADEQUATE EXCAVATION PROCEDURES, SHORING, BRACING AND ERECTION PROCEDURES COMPLYING WITH NATIONAL, STATE AND LOCAL SAFETY ORDINANCES. T CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO: BRACING AND SHORING FOR LOADS DUE TO HYDROSTATIC, EARTH, WIND OR SEISMIC FORCES, CONSTRUCTION EQUIPMENT ETC.
- OBSERVATION VISITS (SITE VISITS) BY REPRESENTATIVES OF ARCHITECT/STRUCTURAL ENGINEER 12 DO NOT INCLUDE INSPECTION OF CONSTRUCTION MEANS AND METHODS. SITE VISITS DURING CONSTRUCTION ARE NOT CONTINUOUS AND DETAILED INSPECTION SERVICES ARE TO BE PERFORMED BY OTHERS. OBSERVATIONS ARE PERFORMED SOLELY FOR THE PURPOSE OF DETERMINING IF THE CONTRACTOR UNDERSTANDS DESIGN INTENT SHOWN IN THE CONTRACT DRAWINGS. OBSERVATIONS DO NOT GUARANTEE CONTRACTOR'S PERFORMANCE AND ARE NOT TO BE CONSTRUED AS SUPERVISION OR VERIFICATION OF CONSTRUCTION.
- 13. NOTIFY THE STRUCTURAL ENGINEER WHEN DRAWINGS BY OTHERS SHOW OPENINGS, POCKETS, ETC., NOT SHOWN ON THE STRUCTURAL DRAWINGS, BUT WHICH ARE LOCATED IN THE STRUCTURAL MEMBERS.
- 14. ALL SPECIFICATIONS AND CODES NOTED SHALL BE THE LATEST APPROVED EDITIONS AND REVISIONS BY THE GOVERNMENTAL AGENCY HAVING JURISDICTION OVER THIS PROJECT.
- 15. CONTRACTOR SHALL INVESTIGATE THE SITE DURING CLEARING AND EARTH WORK OPERATIONS FOR FILLED EXCAVATIONS OR BURIED STRUCTURES SUCH AS CESSPOOLS, CISTERNS, FOUNDATIONS, UTILITIES, ETC. IF ANY SUCH STRUCTURES ARE FOUND, THE STRUCTURAL ENGINEER SHALL BE NOTIFIED IMMEDIATELY.
- 16. CONSTRUCTION MATERIALS SHALL BE SPREAD OUT WHEN PLACED ON FRAMED FLOORS OR ROOFS. THE CONSTRUCTION MATERIAL LOAD SHALL NOT EXCEED THE DESIGN LIVE LOAD PER SQUARE FOOT. PROVIDE ADEQUATE SHORING AND/OR BRACING WHERE STRUCTURE HAS NOT ATTAINED DESIGN STRENGTH.
- 17. SHOP DRAWINGS SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW SHALL CONSIST OF 2 BOND SETS. NO MODIFICATIONS OR SUBSTITUTION OF DRAWINGS AND SPECIFICATIONS WILL BE ACCEPTED VIA SHOP DRAWING REVIEW.
- CONTRACTOR SHALL REVIEW AND STAMP SHOP DRAWINGS PRIOR TO SUBMISSION TO THE ARCHITECT/STRUCTURAL ENGINEER. CONTRACTOR SHALL REVIEW FOR COMPLETENESS AND COMPLIANCE WITH CONTRACT DOCUMENTS.
- SUBMIT SHOP DRAWINGS TO THE ARCHITECT/STRUCTURAL ENGINEER AS INDICATED OR SPECIFIED FOR REVIEW PRIOR TO FABRICATION. REVIEW WILL BE FOR GENERAL CONFORMANCE WITH DESIGN INTENT CONVEYED IN CONTRACT DOCUMENTS.
- WHEN AN ENGINEER IS REQUIRED TO SIGN AND STAMP SHOP DRAWINGS AND CALCULATIONS ENSURE SEAL INDICATES ENGINEER AS REGISTERED IN STATE WHERE PROJECT SITE OCCURS.
- SHOP DRAWINGS ARE NOT A PART OF CONTRACT DOCUMENTS. THEREFORE, ARCHITECT'S/STRUCTURAL ENGINEER'S REVIEW DOES NOT CONSTITUTE AN AUTHORIZATION
- TO DEVIATE FROM TERMS AND CONDITIONS OF THE CONTRACT. SHOP DRAWINGS WILL BE REJECTED FOR INCOMPLETENESS, LACK OF COORDINATION WITH OTHER PORTIONS OF CONTRACT DOCUMENTS, LACK OF CALCULATIONS (IF REQUIRED), OR WHERE MODIFICATIONS OR SUBSTITUTIONS ARE INDICATED WITHOUT PRIOR REVIEW PER
- PARAGRAPH ABOVE. SUBMIT SHOP DRAWINGS AND CALCULATIONS TO GOVERNING CODE AUTHORITY WHEN SPECIFICALLY INDICATED OR REQUESTED.
- MAINTAIN A COPY OF ALL SHOP DRAWINGS ACCEPTED BY THE ARCHITECT/STRUCTURAL ENGINEER AT SITE DURING CONSTRUCTION PERIOD.
- STRUCTURAL ENGINEER REQUIRES 10 WORKING DAYS AFTER RECEIPT OF SHOP DRAWINGS AND CALCULATIONS FOR PROCESSING.

18. DIMENSION RESPONSIBILITIES:

INNOVA TECHNOLOGIES, INC. WILL MAKE ALL EFFORTS TO ENSURE ALL DIMENSIONS PROVIDED ARE COMMENSURATE WITH DESIGN DRAWINGS, INCLUDING IDENTIFYING DISCREPANCIES AS FOUND. INNOVA TECHNOLOGIES, INC. CANNOT BE HELD RESPONSIBLE FOR DIMENSIONS, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY CORRECTNESS OF DIMENSIONS PRIOR TO FABRICATION AND/OR ERECTION OF ALL WORK WITHIN DRAWINGS. USE OF DRAWINGS SUBMITTED BY INNOVA TECHNOLOGIES, INC. ASSUMES ACCEPTANCE OF SAID DRAWINGS AND DIMENSIONS WITHIN BY CONTRACTOR.

DRAWINGS AS INSTRUMENTS OF SERVICE ARE THE PROPERTY OF INNOVA TECHNOLOGIES, INC., AND ANY USE OR REPRODUCTION, IN WHOLE OR IN PART, WITHOUT WRITTEN CONSENT IS STRICTLY PROHIBITED. DRAWINGS AND SPECIFICATIONS REMAIN THE PROPERTY OF THE DESIGN PROFESSIONAL. COPIES OF THE DRAWINGS AND SPECIFICATIONS RETAINED BY THE CLIENT MAY BE UTILIZED ONLY FOR HIS USE AND FOR OCCUPYING THE PROJECT FOR WHICH THEY WERE PREPARED, AND NOT FOR CONSTRUCTION OF ANY OTHER PROJECTS. NAC 623.780.

Abbreviations

GA.

GALV.

GEN.

G.L

GLB

HEX.

HNG'R.

HORIZ.

" or IN.

IBC

I.D.

IF

KSI

Le LLBB

LLH

LLV

LS

LSH

MATL

MAX

M.B.

MID.

MIN

MISC. MIX

MTL.

MULT.

or No.

NOM.

N.S.

0.C

O.D.

0.F.

O.H.

OPP.

OPNG.

OSB

OWJ

PAF

PCF

PERM.

PERP.

P.L.

PLY.

P-T P.T.

PTN.

PSF

PSI

QTY.

RCP REF.

REINF.

REQ.

REV.

R.J.

RM.

R.R.

REQ'D.

PROJ.

N.T.S.

MECH. MEZZ.

LONG.

LABDS

LB or LBS

INFO.

GR.

& A.B. ACI ADD'L. AGGR. AIA AISC AISI AL. ALT. ANSI APPROX. ARCH. ASPH. ASSY. ASTM AVG. AWS	AND ANCHOR BOLTS AMERICAN CONCRETE INSTITUTE ADDITIONAL AGGREGATE AMERICAN INSTITUTE OF ARCHITECTS AMERICAN INSTITUTE OF STEEL CONSTRUCTION AMERICAN INSTITUTE OF STEEL CONSTRUCTION AMERICAN IRON AND STEEL INSTITUTE ALUMINUM ALTERNATE AMERICAN NATIONAL STANDARDS INSTITUTE APPROXIMATE ARCHITECT OR ARCHITECTURAL ASPHALT ASSEMBLY AMERICAN SOCIETY FOR TESTING AND MATERIALS AVERAGE AMERICAN WELDING SOCIETY
B/ or B.O. BLDG. BLK. BLK'G. BM. B.N. BOCA B.O.D or B/D B.O.F or B/F B.O.S or B/S B.P. BRD. BRG	BOTTOM OF BUILDING BLOCK BLOCKING BEAM BOUNDARY NAIL BUILDING OFFICIALS AND CODE ADMINISTRATORS INTERNATIONAL, INC. BOTTOM OF DECK BOTTOM OF DECK BOTTOM OF FOOTING BOTTOM OF STEEL BASE PLATE BOARD BEARING
BTWN. C C/G C/C C.C. CBC CF C.I. C.J. CJP € or CL CLG. CLR. CMU COL. CONC. CONT. CONT. CONTR. CY	BETWEEN CHANNEL CENTER OF GRAVITY CENTER TO CENTER CARRIED COLUMN CALIFORNIA BUILDING CODE CUBIC FOOT CAST IRON CONTROL, OR CONSTRUCTION JOINT COMPLETE JOINT PENETRATION CENTERLINE CEILING CLEAR CONCRETE MASONRY UNITS COLUMN CONCRETE CONNECTION CONSTRUCTION CONSTRUCTION CONTRACTOR CUBIC YARD
2L Ø or DIA. d Do DBL. D.F. DIAG. DTL. DWG.	DOUBLE ANGLE DIAMETER PENNY WEIGHT DITTO DOUBLE DOUGLAS-FIR DIAGONAL DETAIL DRAWING
(E) E. EA. E.A. E.J. ELEC. ELEV. E.N. ENG'R. EQ. EQUIP. EST. E.W. EXCAV. EXT.	EXISTING EAST EACH EACH FACE EXPANSION JOINT ELECTRIC or ELECTRICAL ELEVATION EDGE NAIL ENGINEER EQUAL EQUIPMENT ESTIMATE EACH WAY EXCAVATE EXTERIOR
' or FT. FAB. FDN. F.F. FIN. FLR. F.N. FRMG. F.S. FTG.	FEET or FOOT FABRICATOR OR FABRICATION FOUNDATION FAR FACE FINISH FLOOR FIELD NAIL FRAMING FAR SIDE FOOTING

GAGE OR GAUGE GALVANIZED GENERAL GALVANIZED IRON GLU-LAM BEAM GRADE HEIGHT HEXAGON HANGER HORIZONTAL INCHES INTERNATIONAL BUILDING CODE INSIDE DIAMETER INSIDE DIAMETER INSIDE FACE INFORMATION JOINT KIP (1,000 LBS) KILOGRAM	S SCHED. SECT. SF SHT. SHT'G. SIM. SIMP. SK. SMS SPECS. SQ. S.F. S.S. SSH STAGG. STD. STL. STRUC. S.W. SYM.	STANDARD I BEAM SOUTH SCHEDULE SECTION SQUARE FEET SHEATHING SIMILAR SIMPSON SKETCH SHEET METAL SCR SPECIFICATIONS SQUARE SQUARE FOOT STAINLESS STEEL SHORT SLOTTED H STAGGER, OR STAC STANDARD STEEL STRUCTURAL SHEAR WALL SYMMETRICAL
KIPS PER SQUARE INCH ANGLE LOS ANGELES BUILDING DEPARTMENT AND SAFETY POUND or POUNDS LENGTH LONG LEG BACK TO BACK LONG LEG HORIZONTAL LONG LEG VERTICAL LONG IEG VERTICAL LONGITUDINAL LENGTH OF SPAN LONG SLOTTED HOLE MATERIAL MAXIMUM MACHINE BOLT	T/ or T.O. T&B T&G THK. THRD. THRU THRU-OUT TJI T.N. T.O.C. or T/C T.O.F. or T/F T.O.M. or T/M T.O.S. or T/S TRANS. TS TYP.	TOP OF TOP AND BOTTOM TONGUE AND GROU THICK, OR THICKNE THREADED THROUGH THROUGH-OUT TRUSS JOIST MACM TOE NAIL TOP OF CONCRETE TOP OF FOOTING TOP OF MASONRY TOP OF STEEL TRANSVERSE TUBE STEEL TYPICAL
MECHANICAL MEZZANINE MIDDLE MINIMUM MISCELLANEOUS MIXTURE METAL MULTIPLE	UO. VERT. V.I.F. VOL. w/	UNLESS NOTED OT VERTICAL VERIFY IN FIELD VOLUME WITH
NEW NUMBER NORTH NEAR FACE NOMINAL NEAR SIDE NOT TO SCALE	W/o W W. W.I. W.P. WT. WWF	WITHOUT WIDE FLANGE BEAI WEST WROUGHT IRON WORK POINT WEIGHT WELDED WIRE FAB
ON CENTER OUTSIDE DIAMETER OUTSIDE FACE OPPOSITE HAND OPPOSITE OPENING ORIENTED STRAND BOARD OPEN WEB JOIST	YD.	YARD
POWDER ACTUATED FASTENER POUNDS PER CUBIC FOOT PERMANENT PERPENDICULAR PLATE PROPERTY LINE PLYWOOD PROJECT POST-TENSION PRESSURE-TREATED PARTITION POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH		
QUANTITY		
RADIUS REFLECTED CEILING PLAN REFERENCE REINFORCE, REINFORCED, REINFORCEMENT, OR REINFORCING REQUIREMENT REQUIRED REVISION ROOF JOIST ROOM ROOF RAFTER		



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SHEET METAL SCREW SPECIFICATIONS

TONGUE AND GROOVE

THICK, OR THICKNESS

TRUSS JOIST MACMILLAN I-JOIST

UNLESS NOTED OTHERWISE

WIDE FLANGE BEAM

WELDED WIRE FABRIC

SHORT SLOTTED HOLE

STAGGER, OR STAGGERED

Foundation

THE DESIGN OF THE FOUNDATION SYSTEM IS BASED ON THE GEOTECHNICAL REPORT (AND ANY ADDENDA) PREPARED BY THE FOLLOWING COMPANY: COMPANY: KAW VALLEY ENGINEERING **REPORT NO.: C21G1105**

DATED: DECEMBER 6, 2021

COPIES SHALL BE MADE AVAILABLE FOR REVIEW AT THE ARCHITECT'S OFFICE AND CONTRACTOR SHALL HAVE A COPY AT THE JOBSITE.

THE FOUNDATION SYSTEM IS DESIGNED BASED ON THE FOLLOWING INFORMATION: a. ALLOWABLE SOIL BEARING PRESSURE: CONTINUOUS FOOTINGS.. 3500 PSF*

SPREAD FOOTINGS	3500 PSF*
EQUIVALENT FLUID PRESSURE UNCONSTRAINED	40 PCF
EQUIVALENT FLUID PRESSURE CONSTRAINED	60 PCF
FRICTION COEFFICIENT	0.25

- 3. THE CONTRACTOR SHALL PROVIDE FOR PROPER DEWATERING OF EXCAVATIONS FROM SURFACE WATER, GROUND WATER, SEEPAGE, ETC.
- 4. THE CONTRACTOR SHALL PROVIDE FOR THE INSTALLATION AND DESIGN OF ALL CRIBBING, SHEATHING AND SHORING REQUIRED TO SAFELY AND ADEQUATELY RETAIN THE EARTH BANKS AND SUPPORT ANY EXISTING STRUCTURES IN ACCORDANCE WITH ALL NATIONAL, STATE AND LOCAL SAFETY ORDINANCES.
- ALL ABANDONED UTILITIES, FOOTINGS, ETC., THAT INTERFERE WITH THE NEW CONSTRUCTION SHALL BE REMOVED. NOTIFY THE STRUCTURAL ENGINEER SHOULD ANY FOUNDATIONS FOR EXISTING STRUCTURES BE ENCOUNTERED THAT ARE NOT SHOWN ON THE STRUCTURAL DRAWINGS.
- FOOTINGS SHALL BE PLACED AND ESTIMATED ACCORDING TO DEPTHS SHOWN ON THE DRAWINGS. EXCAVATIONS FOR FOOTINGS SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACING THE CONCRETE AND REINFORCING. THE CONTRACTOR SHALL NOTIFY THE GEOTECHNICAL ENGINEER WHEN THE EXCAVATIONS ARE READY FOR INSPECTION. THE GEOTECHNICAL ENGINEER SHALL SUBMIT A LETTER OF COMPLIANCE TO THE OWNER. SHOULD SOIL ENCOUNTERED AT THESE DEPTHS NOT BE APPROVED BY THE GEOTECHNICAL ENGINEER, FOOTING ELEVATIONS OR FOOTING DESIGNS WILL BE ALTERED BY CHANGE ORDER.
- ALL EXCAVATIONS SHALL BE PROPERLY BACKFILLED. FOOTING BACKFILL AND UTILITY TRENCH BACKFILL WITHIN THE BUILDING PERIMETER SHALL BE MECHANICALLY COMPACTED IN LAYERS, TO THE APPROVAL OF THE GEOTECHNICAL ENGINEER. SEE GEOTECHNICAL REPORT FOR REQUIREMENTS. FLOODING WILL NOT BE PERMITTED.
- 8. THE CONTRACTOR SHALL NOT BACKFILL BEHIND RETAINING WALLS BEFORE THE CONCRETE OR MASONRY WALLS HAVE REACHED FULL DESIGN STRENGTH. THE CONTRACTOR SHALL BRACE OR PROTECT ALL BUILDING AND PIT WALLS BELOW GRADE FROM LATERAL LOADS UNTIL ATTACHING FLOORS ARE COMPLETELY IN PLACE AND HAVE REACHED FULL DESIGN STRENGTH. THE CONTRACTOR SHALL PROVIDE FOR THE DESIGN, ANY REQUIRED PERMITS AND THE INSTALLATION OF SUCH BRACING AND PROTECTION.
- 9. SUB-BASE BELOW SLABS ON GRADE SHALL BE SUPPORTED ON NATURAL GRADE OR STRUCTURAL FILL AS DIRECTED IN THE GEOTECHNICAL REPORT. SEE TYPICAL DETAILS AND GEOTECHNICAL REPORT FOR VAPOR BARRIER AND SUB-BASE REQUIREMENTS.

Reinforcing Steel

- ALL REINFORCING STEEL SHALL BE DETAILED AND PLACED IN ACCORDANCE WITH THE "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" ACI 318-14 FOR CONCRETE CONSTRUCTION OR "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES" TMS 402/602-16 FOR MASONRY CONSTRUCTION AND THE "MANUAL OF STANDARD PRACTICE FOR REINFORCED CONCRETE CONSTRUCTION" BY CRSI AND WCRSI AS MODIFIED BY THE PROJECT DRAWINGS AND SPECIFICATIONS
- DEFORMED REINFORCING BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A615 GRADE 60 AND ASTM A706 GRADE 60 FOR DEFORMED WELDABLE BARS, EXCEPT AS FOLLOWS: a. SHEARWALL, TILT-UP WALL, MOMENT FRAME, COUPLING BEAMS AND SLAB CHORD AND DRAG REINFORCING SHALL BE ASTM A706 EXCEPT ASTM A615 GRADE 60 MAY BE USED IF (A) THE ACTUAL YIELD STRESS IS BETWEEN 60 KSI AND 78 KSI AND (B) ACTUAL TENSILE STRENGTH IS GREATER THAN 1.25 TIMES ACTUAL YIELD STRENGTH, MILL TEST SHALL BE SUBMITTED.
- 3. ALL REINFORCING BAR BENDS SHALL BE MADE COLD.
- 4. LAP SPLICES SHALL BE MADE ONLY WHERE SHOWN ON THE STRUCTURAL DRAWINGS.
- 5. REINFORCING DOWELS BETWEEN FOOTINGS AND WALLS OR COLUMNS SHALL BE THE SAME NUMBER. SIZE, SPACING AND GRADE AS THE SPECIFIED VERTICAL REINFORCING, UNO.
- 6. ALL REINFORCING BARS SHALL BE MARKED SO THEIR IDENTIFICATION CAN BE MADE WHEN THE FINAL IN-PLACE INSPECTION OCCURS.
- 7. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185.
- 8. MINIMUM LAP OF WELDED WIRE FABRIC SHALL BE 6" OR ONE FULL MESH AND ONE HALF, WHICHEVER IS GREATER.
- 9. IN ADDITION TO ALL THE REINFORCING STEEL INDICATED ON THE DRAWINGS, THE CONTRACTOR SHALL PROVIDE FOR AN ALLOWANCE OF TWO TONS OF REINFORCING BARS TO BE FURNISHED, FABRICATED AND PLACED DURING THE PROGRESSION OF WORK AS MAY BE DIRECTED BY THE STRUCTURAL ENGINEER.

Structural Steel

- STRUCTURAL STEEL SHALL BE DESIGNED, DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE AISC 360-16 'SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS' AND AISC 303-16 'CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES'.
- 2. ALL FABRICATION SHALL OCCUR IN AN AISC APPROVED FABRICATION SHOP LICENSED BY THE AUTHORITY HAVING JURISDICTION OVER THE PROJECT WITH A MINIMUM OF 10 YEARS OF EXPERIENCE IN SIMILAR WORK. THE FABRICATOR SHALL RETAIN A DETAILER WITH A MINIMUM OF 5 YEARS RELEVANT EXPERIENCE IN THE PREPARATION OF ERECTION AND FABRICATION DRAWINGS.
- 3. MATERIALS:

WIDE FLANGE SHAPES	ASTM A992. Fv = 50 KSI
HSS SQUARE & RECTANGLE SHAPES	ASTM 500 GR. C, Fy = 50 KSI
HSS ROUND SHAPE	ASTM 500 GR. C, Fy = 46 KSI
PIPES	ASTM A53, GR. B, TYPE E OR S
	Fy = 35 KSI
ALL OTHER SHAPES & PLATES	ASTM A36, Fy = 36 KSI
HIGH STRENGTH BOLTS	F3125 GR. A325 OR F1852 U.N.C
ANCHOR BOLTS	ASTM F1554, GR. 36 w/ SUPP. S
	U.N.O

- 4. BOLT HOLES IN STEEL SHALL BE $\frac{1}{16}$ " LARGER THAN NOMINAL SIZE OF BOLT USED, EXCEPT ANCHOR BOLT HOLES.
- 5. WELDED JOINTS SHALL CONFORM TO THE PREQUALIFIED JOINT DETAILS AS INDICATED IN THE STRUCTURAL WELDING CODE (AWS D1.1) BY THE AMERICAN WELDING SOCIETY. WELDS SHALL BE MADE USING A FILLER METAL HAVING 70 KSI MINIMUM TENSILE STRENGTH, FILLER METAL SHALL HAVE A MINIMUM CHARPY V-NOTCH TOUGHNESS OF 20 FT-LBS AT 0 DEGREES FAHRENHEIT, UNLESS NOTED OTHERWISE. SMAW OR FCAW PROCESSES ARE ACCEPTABLE PROVIDED ALL POWER, CURRENT, AND FEED RATES ARE SET IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- 6. WELD LENGTHS CALLED FOR ON PLANS ARE THE NET EFFECTIVE LENGTH REQUIRED. WELD SIZE SHALL BE AISC MINIMUM UNLESS A LARGER SIZE IS NOTED.
- WELDING TESTS AND INSPECTIONS:
- A. ALL SHOP WELDS SHALL BE TESTED AND INSPECTED ON THE FOLLOWING MANNER: FILLET WELDS: 100% VISUALLY INSPECTED
- PJP: 100% VISUALLY INSPECTED, 20% ULTRASONIC TESTING
- CJP: 100% ULTRASONIC TESTING
- B. ALL FIELD WELDS SHALL BE INSPECTED PER QUALITY ASSURANCE AND SPECIAL INSPECTIONS.
- 8. THE FABRICATOR SHALL SUBMIT TO THE ENGINEER FOR REVIEW TWO BOND SETS (MIN.) OF SHOP AND ERECTION DRAWINGS. DRAWINGS MUST BE COMPLETE, SHOW ALL WELDS, BOLTS, DIMENSIONS, ETC. RFI AND QUESTIONS THAT MAY RESULT IN A CHANGE ORDER REQUEST MAY NOT BE POSED ON THE SHOP OR ERECTION DRAWINGS. SUCH QUESTIONS MUST FOLLOW THE FORMAL RFI PROCESS.

Concrete

- ALL ASPECTS OF WORK PERTAINING TO THE CONCRETE CONSTRUCTION SHALL BE IN ACCORDANCE WITH ACI 318-14, "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE" AND THE LATEST EDITION OF "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS", ACI 301, WITH MODIFICATIONS AS NOTED ON THE PROJECT DRAWINGS AND/OR SPECIFICATIONS.
- CONCRETE MIX DESIGNS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW. ALL MIX DESIGNS SHALL BE DESIGNED BY A QUALIFIED TESTING LABORATORY AND SHALL BE WET STAMPED BY A CIVIL ENGINEER LICENSED IN THE STATE OF THE PROJECT. BASE DESIGN MIX ON FIELD EXPERIENCE OR TRIAL MIXTURES AS STIPULATED IN ACI 318-14, SECTION 26.4.4.
- PORTLAND CEMENT SHALL CONFORM TO ASTM C150 TYPE V WHERE THE CONCRETE IS IN CONTACT WITH SOIL. CONCRETE THAT WILL BE EXPOSED TO SULFATE-CONTAINING SOLUTIONS SHALL COMPLY WITH IBC SECTION 1904.2 AND ACI 318-14 SECTION 19.3.1. SEVERE AND VERY SEVERE SULFATE EXPOSURES AS IDENTIFIED IN THE PROJECT GEOTECHNICAL REPORT, THE WATER CEMENT RATIO SHALL NOT EXCEED 0.45 AND SHALL NOT EXCEED 0.50 FOR MODERATE SULFATE EXPOSURE. TYPE II CEMENT SHALL BE USED AT ALL OTHER LOCATIONS IN THE STRUCTURE.
- FLY ASH MAY BE USED IN CONCRETE MIXES. THE FLY ASH SHALL CONFORM TO ASTM C618 CLASS F. THE LOSS OF IGNITION SHALL BE LIMITED TO 2%. THE ADDITION RATE FOR FLY ASH SHALL BE LIMITED TO 15% OF THE CEMENT WEIGHT. THE CONTRACTOR SHALL SUBMIT ALL CERTIFICATES SHOWING THE FLY ASH IS IN ACCORDANCE WITH THE ABOVE CRITERIA.
- 5. DO NOT USE CONCRETE OR GROUT CONTAINING CHLORIDES.
- NORMAL WEIGHT CONCRETE-AGGREGATE SHALL CONFORM TO ALL REQUIREMENTS AND TESTS OF ASTM C33 AND PROJECT SPECIFICATIONS. EXCEPTIONS MAY BE USED ONLY WITH APPROVAL OF THE STRUCTURAL ENGINEER. PROVIDE CONCRETE MIX DESIGN WITH PROVEN SHRINKAGE CHARACTERISTICS OF LESS THAN 0.0005 INCHES/INCH.

7.	STRUCTURAL CONCRETE 28-DAY STRENGTHS AND TYPES ARE AS FOLLOWS:		
	LOCATION OF CONCRETE	STRENGTH, PSI	TYPE
	FOOTINGS	4000	NORMAL WEIGHT
	SLAB ON GRADE	4000	NORMAL WEIGHT

- THE MODULUS OF ELASTICITY OF CONCRETE SHALL BE TESTED IN ACCORDANCE WITH ASTM C469 FOR FRAMED CONCRETE SLABS AND BEAMS, AND SHALL AT A MINIMUM ACHIEVE THE VALUE GIVEN BY THE EQUATIONS IN SECTION 19.2.2.1 OF ACI 318 FOR THE SPECIFIED CONCRETE 28-DAY STRENGTH.
- CONCRETE MIXING OPERATIONS, ETC., SHALL BE IN ACCORDANCE WITH ASTM C94.
- DRY PACK OR GROUT UNDER BASE PLATES, SILL PLATES, ETC., SEE SPECIFICATIONS. STRENGTH 10. REQUIREMENTS ARE 7000 PSI MINIMUM NON-SHRINK GROUT AS REQUIRED FOR CONCRETE.
- SUBMIT SHOP DRAWINGS TO ARCHITECT/STRUCTURAL ENGINEER INDICATING LOCATIONS OF 11. CONCRETE JOINTS FOR REVIEW PRIOR TO PLACING CONCRETE. PLACE JOINTS AT LOCATIONS TO MINIMIZE EFFECTS OF SHRINKAGE AS WELL AS BEING PLACED AT POINTS OF LOW STRESS.
- CONCRETE PLACEMENT SHALL BE IN ACCORDANCE WITH ACI STANDARD 304 AND PROJECT 12. SPECIFICATIONS. PROVIDE KEYS IN CONSTRUCTION JOINTS UNLESS DETAILED OTHERWISE. THOROUGHLY CLEAN, REMOVE LAITANCE AND THOROUGHLY WET AND REMOVE STANDING WATER IN CONSTRUCTION JOINTS BEFORE PLACING NEW CONCRETE. AT VERTICAL JOINTS, SLUSH WITH A COAT OF NEAT CEMENT BEFORE PLACING NEW CONCRETE.

ROUGHEN CONCRETE SURFACE TO A FULL AMPLITUDE OF $\frac{1}{4}$ " WHERE MASONRY WALLS INTERSECT CONCRETE OR WHERE NEW CONCRETE INTERFACES WITH EXISTING CONCRETE.

- 14. CLEAR COVERAGE OF CONCRETE OVER REINFORCING BARS SHALL BE AS FOLLOWS:
- LOCATION OF CONCRETE CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH
- CONCRETE EXPOSED TO EARTH OR WEATHER: #6 THROUGH #18 BAR #5 AND SMALLER
- CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND, UNO:
- SLABS, WALLS, JOISTS: #14 AND #18 BAR
- #11 BAR AND SMALLER
- BEAMS. COLUMNS: PRIMARY REINFORCING, TIES, STIRRUPS, SPIRALS, SLAB ON GRADE:
- PRIOR TO CONCRETE PLACEMENT, ALL REINFORCING BARS, ANCHOR BOLTS AND OTHER CONCRETE INSERTS SHALL BE WELL SECURED IN POSITION.
- 16. UNLESS OTHERWISE INDICATED IN THE MECHANICAL OR ELECTRICAL DRAWINGS OR PROJECT SPECIFICATIONS, MECHANICAL PIPES AND ELECTRICAL CONDUITS WHICH PASS THROUGH SLAB ON GRADE, CONCRETE ON STEEL DECK, FRAMED CONCRETE FLOORS AND WALLS DO NOT REQUIRE SLEEVES, IF SLEEVES ARE REQUIRED, THE SLEEVES SHALL BE INSTALLED PRIOR TO PLACING CONCRETE. DO NOT CUT ANY REINFORCING WHICH MAY INTERFERE WITH SLEEVE PLACEMENT. CORING OPENINGS IN CONCRETE IS NOT PERMITTED. NOTIFY THE STRUCTURAL ENGINEER IN ADVANCE OF CONDITIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS.
- 17. FOR SLABS ON GRADE NO PIPES OR CONDUITS SHALL BE PLACED WITHIN THE INDICATED CONCRETE SLAB THICKNESS AND SHALL BE LOCATED BELOW THE SLAB UNLESS SPECIFICALLY DETAILED OTHERWISE.
- 18. MAINTAIN CONCRETE ABOVE 50 DEGREES FAHRENHEIT AND IN A MOIST CONDITION FOR A MINIMUM OF 7 DAYS AFTER PLACEMENT UNLESS OTHERWISE ACCEPTED BY ARCHITECT/STRUCTURAL ENGINEER.
- ANY CURING COMPOUNDS USED ON CONCRETE THAT IS TO RECEIVE A RESILIENT TILE FINISH SHALL 19. BE APPROVED BY THE FINISH APPLICATOR BEFORE USE.

Wood

6x BEAMS AND POSTS

MIN. CONCRETE COVER
3"
2" 1 ½"
1 ½" ¾"
1 ½"
3"
1 ½" 3⁄4" 1 ½" 3"

- ALL STRUCTURAL FRAMING AND CONNECTIONS SHALL BE PER CHAPTER 23 OF THE 2018 EDITION OF THE INTERNATIONAL BUILDING CODE (IBC). SPECIFIED HARDWARE SHALL BE SIMPSON STRONG-TIE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS, UNO.
- ALL TIMBER AND WOOD CONSTRUCTION SHALL CONFORM TO THE 2018 NATIONAL DESIGN SPECIFICATION (NDS) FOR WOOD CONSTRUCTION WITH THE SPECIAL DESIGN PROVISIONS FOR WIND AND SEISMIC AND MANUAL FOR ENGINEERED WOOD CONSTRUCTION.
- SOLID SAWN LUMBER SHALL COMPLY WITH THE LATEST EDITION OF THE GRADING RULES OF THE WESTERN WOOD PRODUCTS ASSOCIATION (WWPA) OR THE WEST COAST LUMBER INSPECTION BUREAU (WCLIB). ALL SOLID SAWN LUMBER SHALL BE STAMPED WITH THE GRADE MARK OF AN APPROVED GRADING AGENCY. THE MAXIMUM MOISTURE CONTENT SHALL NOT EXCEED 19% BY WEIGHT. SOLID SAWN LUMBER SHALL HAVE THE FOLLOWING MINIMUM GRADES:

2x4 STUDS AND BLOCKING	DF#2 AND BETTER
2x6 STUDS AND BLOCKING	DF#2 AND BETTER
JOISTS, TOP PLATES AND BLOCKING	DF#2 AND BETTER
4x BEAMS AND POSTS	DF#1 AND BETTER

NOTE: INTERIOR NON-BEARING PARTITIONS MAY BE DFL STUD GRADE.

INTERIOR NONBEARING WALLS LESS THAN 12' HIGH SHALL BE 2x4 STUDS AT 16"OC.

DOOR OPENINGS IN INTERIOR NONBEARING WALLS SHALL HAVE THE FOLLOWING MINIMUM HEADERS (UNI ESS NOTED OTHERWISE ON PLANS)

DF#1 AND BETTER

OPENINGS LESS THAN 6'-0"	(2) 2x4 VERTICAL	
OPENINGS LESS THAN 10'-0"	(2) 2x6 VERTICAL	
OPENINGS IN EXTERIOR AND INTERIOR BEARING WALLS SHALL HAVE THE FOLLOWING MINIMUM		

FRAMING (UNLESS NOTED OTHERWISE ON PLANS):			
5'-0"	8'-0"		
1	2		
1	2		
	5'-0"		

PROVIDE (1) TRIMMER STUD AND (1) KING STUD MINIMUM AT OPENINGS IN INTERIOR WALLS (UNLESS NOTED OTHERWISE ON PLANS).

ALL STUD PARTITIONS OR WALLS OVER 10'-0" HIGH SHALL HAVE 2x BRIDGING, SAME WIDTH AS THE STUD, PREFERABLY AT MID-HEIGHT BUT NOT TO EXCEED INTERVALS OF 8'-0".

- SILL PLATES RESTING ON CONCRETE OR MASONRY SHALL BE OF PRESSURE TREATED DOUGLAS FIR MAXIMUM ANCHOR BOLT SPACING SHALL BE 72" ON CENTER UNLESS NOTED OTHERWISE ON PLANS AND DETAILS. ALL ANCHOR BOLTS (OTHER THAN BOLTS FOR HOLDOWNS) SHALL BE EMBEDDED 7" INTO CONCRETE. ANCHOR BOLTS FOR HOLDOWNS SHALL NOT BE CONSIDERED AS PART OF REQUIRED ANCHOR BOLTS FOR SHEARWALLS. ALL EXTERIOR WALLS SHALL BE SECURED WITH MINIMUM ANCHOR BOLTS. INTERIOR WALLS, THAT ARE NOT SHEARWALLS, MAY BE SECURED BY DRIVEN SHOT PINS AT 16"OC MINIMUM 1" EMBEDMENT UNLESS NOTED OTHERWISE ON PLANS.
- ALL BOLTS IN WOOD SHALL CONFORM TO ASTM A307 BOLTS AND SHALL BE INSTALLED IN HOLES BORED WITH A BIT 1/16" LARGER THAN THE DIAMETER OF THE BOLT. BOLTS AND NUTS SEATING ON WOOD SHALL HAVE CUT STEEL WASHERS UNDER HEADS AND NUTS. DAMAGE THREADS AFTER INSTALLATION TO PREVENT LOOSENING.
- ALL STUD WALL TOP PLATES SHALL BE DOUBLE MEMBERS SPLICED WITH 48" MINIMUM LAP PER TYPICAL STRUCTURAL DETAIL, UNLESS NOTED OTHERWISE.
- DO NOT NOTCH JOISTS, RAFTERS OR BEAMS, EXCEPT WHERE SHOWN IN DETAILS. OBTAIN ENGINEER'S APPROVAL FOR ANY HOLES OR NOTCHES NOT DETAILED. HOLES THROUGH SILLS, PLATES, STUDS AND DOUBLE PLATES IN INTERIOR, BEARING AND SHEAR WALLS SHALL NOT EXCEED 1/3 THE PLATE WIDTH. USE BORED HOLES LOCATED IN THE CENTER OF THE STUD OR PLATE.
- NAILED CONNECTIONS SHALL BE COMMON WIRE NAILS AND CONFORM TO TABLE 2304.10.1 OF THE 2018 INTERNATIONAL BUILDING CODE, UNLESS OTHERWISE NOTED. WHERE DRIVING OF NAILS CAUSE SPLITTING, HOLES FOR THE NAILS SHALL BE SUB-DRILLED. EXPOSED EXTERIOR NAILS AND HARDWARE SHALL BE GALVANIZED. WHERE AUTOMATIC NAILING IS USED, NAIL HEADS SHALL NOT PENETRATE PLYWOOD SHEATHING. CONNECTIONS LISTED ARE MINIMUM PERMISSIBLE. DETAILS GOVERN OVER SCHEDULE. SINKERS SHALL NOT BE ALLOWED UNLESS NOTED ON PLANS.
- 10. ALL EXTERIOR WALLS SHALL BE SOLIDLY SHEATHED. SEE SHEARWALL PLAN / SCHEDULE.
- 11. FASTENERS IN PRESERVATIVE TREATED AND FIRE RETARDANT TREATED WOOD SHALL BE OF HOT-DIPPED ZINC COATED GALVANIZED STEEL, STAINLESS STEEL, SILICON BRONZE OR COPPER. FASTENINGS FOR WOOD FOUNDATIONS SHALL BE AS REQUIRED IN AF&PA TECHNICAL REPORT NO. 7.
- PLYWOOD FOR ROOFS AND FLOORS SHALL BE C-C OR C-D SHEATHING CONFORMING TO PRODUCTS 12. STANDARD PS 1-74. LAY PLYWOOD WITH FACE GRAIN PERPENDICULAR TO SUPPORTS. ALL NAILING SHALL BE WITH COMMON NAILS AND SOLID 2X BLOCKING SHALL BE PLACED AT ALL RIDGES AND VALLEYS. ALL ROOF AND FLOOR SHEATHING SHALL BE NAILED WITH BOUNDARY NAILING ALONG THE ENTIRE LENGTH OF SUPPORTING MEMBERS USED AS "DRAG" MEMBERS. A DRAG MEMBER IS A TRUSS OR BEAM DESIGNED TO TRANSMIT A LATERAL FORCE AND/OR A DIAPHRAGM CHORD FORCE AS INDICATED ON THE FRAMING PLANS. PROVIDE BLOCKING AT PANEL EDGES WHERE INDICATED ON PLANS. ALL PLYWOOD SHALL BE OF THE FOLLOWING NOMINAL THICKNESS AND SPAN/INDEX RATING AND SHALL BE NAILED AS FOLLOWS UNLESS NOTED OTHERWISE:

	THICKNESS	SPAN RATING	BOUNDARY NAILING	EDGE NAILING	FIELD NAILING
ROOF	5⁄8"	40/20	10d AT 2 ¹ ⁄ ₂ " O.C.	10d AT 4" O.C.	10d AT 12" O.C.

PLYWOOD FOR SHEARWALLS SHALL BE STRUCTURAL II C-C OR C-D, SPAN INDEX 24/2 ON FORMING TO PS 1-83. THICKNESS SHALL BE AS CALLED FOR ON THE PLANS AND SHEARWALL SCHEDULE. PROVIDE BLOCKING AT ALL PANEL EDGES. ALL WALLS DESIGNATED AS SHEARWALLS SHALL BE CONNECTED TO ROOF AND FLOOR DIAPHRAGMS WITH BOUNDARY NAILING TO PROVIDE PROPER SHEAR TRANSFER.

AS AN ALTERNATE TO PLYWOOD, AMERICAN PLYWOOD ASSOCIATION (APA) PERFORMANCE RATED SHEATHING MAY BE USED WITH PRIOR APPROVAL OF THE OWNER. RATED SHEATHING SHALL COMPLY WITH EXPOSURE 1, AND SHALL HAVE A SPAN RATING EQUIVALENT TO OR BETTER THAN THE PLYWOOD IT REPLACES. ATTACHMENT AND THICKNESS (WITHIN $\frac{1}{2}$ ") SHALL BE THE SAME AS THE PLYWOOD IT REPLACES. INSTALL PER MANUFACTURER RECOMMENDATIONS.

13. LAG SCREWS AND WOOD SCREWS SHALL CONFORM TO ANSI B.18. ROUND WASHERS SHALL CONFORM TO ANSI/A B18.22.1

Wood Fastening Schedule

- AS A MINIMUM AND IF NOT SPECIFICALLY DETAILED OR NOTED ELSEWHERE AND OTHERWISE, THE VARIOUS WOOD COMPONENTS OF THE STRUCTURE SHALL BE FASTENED TOGETHER AS FOLLOWS:
- b. BLOCKING TO JOIST: (3) 8d COMMON OR 16d SINKER OR SHORT, TOE NAILS OR (2) 16d SINKER OR SHORT FACE NAIL.
- c. SOLE (BOTTOM) PLATE TO JOIST OR BLOCKING: 16d COMMON OR SHORT FACE NAIL AT 16" O.C.
- d. LOWER TOP PLATE TO STUD: (2) 16d COMMON FACE NAIL.
- e. STUD TO SOLE BOTTOM PLATE: (2) 16d SINKER OR SHORT FACE NAIL OR (4) 8d COMMON OR 16d SINKER OR SHORT TOE NAIL. AT 3x SILL PLATES, USE (2) 20d BOX FACE NAILS IN LIEU OF (2) 16d SINKER OR SHORT
- f. DOUBLE STUDS, OR BUILT-UP STUDS TYPICAL STITCHING: 16d SINKER OR SHORT FACE NAILS AT 24" O.C.
- g. TOP PLATES AT INTERSECTION, FACE NAIL: (4) 16d COMMON FACE NAIL.
- h. TOP PLATES TYPICAL STITCHING: 16d SINKER OR SHORT FACE NAILS AT 16" O.C.
- i. UPPER TOP PLATES AT LAPS: (8) 16d SINKER OR SHORT FACE NAIL EACH SIDE OF BUTT JOINT.
- j. RIM JOIST TO UPPER TOP PLATE OR MUD SILL: 8d COMMON OR 16d SINKER OR SHORT TOE NAILS AT 6" O.C.
- k. CEILING JOIST TO PLATE, TOE NAILS: (3) 8d COMMON OR 16d SINKER OR SHORT TOE NAILS
- I. CEILING JOIST, LAP OVER WALLS AND PARTITION: (3) 16d COMMON FACE NAILS.
- m. CEILING JOIST, PARALLEL RAFTERS: (3) 16d COMMON FACE NAILS. n. RAFTER TO PLATE, TOE NAILS: (3) 8d COMMON OR 16d SINKER OR SHORT TOE NAILS.
- o. BUILT UP CORNER STUDS: 16d COMMON FACE NAILS AT 24" O.C.
- p. THREE PIECE BUILT UP GIRDER AND BEAM: 16d AT 12" O.C. AT TOP AND AT BOTTOM. (3) 16d AT EACH END.
- ALL NAILING NOT SPECIFICALLY CALLED OUT ON PLANS SHALL BE PER TYPICAL DETAILS, TABLE 2304.9.1 OF THE 2013 CBC AND SCHEDULE ABOVE.
- TYPICAL NAIL SIZE

SIZE	LENGTH	SHANK DIAMETER
8d COMMON	2 ½"	0.131"
10d COMMON	3"	0.148"
16d COMMON	3 ½"	0.162"
20d COMMON	4"	0.192"

Deferred Submittals

- IN ACCORDANCE WITH THE IBC SECTION 107.3.4.1, SPECIALTY ITEMS, PRE-ENGINEERED COMPONENTS, AND DESIGN/BUILD ELEMENTS MAY BE SUBMITTED FOR APPROVAL BY THE ENGINEER OF RECORD AND THE BUILDING OFFICIAL BY DEFERRED SUBMITTAL. SUCH ITEMS ARE DEFINED AS THOSE SPECIFIED IN CONSTRUCTION DOCUMENTS BUT WHICH REQUIRE DESIGN BY THE MANUFACTURER, SUPPLIER OR INSTALLER.
- DEFERRED SUBMITTALS ARE REQUIRED FOR THE FOLLOWING: WOOD TRUSSES EXTERIOR LIGHTING POLES AND FOUNDATIONS
- SUBMITTALS SHALL INCLUDE:

- "SPECIALTY ENGINEER"). B. DIAGRAM PREPARED AND SEALED BY THE SPECIALTY ENGINEER, SHOWING LOAD MAGNITUDES AND LOCATIONS - SEPARATED INTO DEAD, LIVE, WIND AND/OR SEISMIC COMPONENTS - THAT ARE APPLIED TO THE PRIMARY STRUCTURE.
- C. ERECTION AND/OR DESIGN DRAWINGS BEARING THE SPECIALTY ENGINEER'S SEAL AND THE ENGINEER OF RECORD'S SHOP DRAWING STAMP INDICATING HIS REVIEW.
- SUBMIT ONE (1) WET SEALED COPY FOR THE STRUCTURAL ENGINEER OF RECORD'S FILE, AND ADDITIONAL COPIES AS ARE NECESSARY FOR THE BUILDING DEPARTMENT. SUBMITTALS CONTAINING EXCEPTIONS, CORRECTIONS, OR OTHER REVIEW COMMENTS ARE NOT ACCEPTABLE FOR SUBMITTAL TO THE BUILDING DEPARTMENT.
- THE STRUCTURAL ENGINEER OF RECORD'S REVIEW IS STRICTLY LIMITED TO THE FOLLOWING:
- A. THE DRAWINGS AND CALCULATIONS ARE PROPERLY SEALED.
- CODE REQUIREMENTS.
- C. THE CONNECTIONS TO THE PRIMARY STRUCTURE ARE CONSISTENT WITH THE PRIMARY DESIGN
- D. THE BASE STRUCTURE IS CAPABLE OF SUPPORTING THE IMPOSED LOADS.
- IF THE LOADS IMPOSED ON THE STRUCTURE EXCEED THE LOAD ALLOWANCE PROVIDED, THE STRUCTURAL ENGINEER OF RECORD WILL REJECT THE SUBMITTAL. ONLY AT THE OWNER'S WRITTEN DIRECTION WILL MODIFICATIONS TO THE BASE STRUCTURE TO ACCOMMODATE THE SPECIALTY ITEM(S) BE MADE BY THE ENGINEER OF RECORD. DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THE ENGINEER OF RECORD AND THE BUILDING OFFICIAL HAVE APPROVED SUBMITTAL DOCUMENTS.

a. JOIST TO MUD SILL OR UPPER TOP PLATE: (3) 8d COMMON OR 16d SINKER OR SHORT, TOE NAILS.

A. CALCULATIONS, PREPARED AND SEALED BY AN APPROPRIATELY REGISTERED ENGINEER (THE

B. THE LOAD CRITERIA IS CONSISTENT WITH THE CONTRACT DOCUMENTS AND UNIFORM BUILDING

0 ЪЪ \mathbf{m} SIGNED BY: COA # 2012012048 02/21/2022 DATE LICENSE NUMBER **M** \square Ζ Ш S RD 6408 WEN МО M Ο O Σ M Ω MU \geq 080 \triangleleft οШ RD R O Ŕ Ω EBI JOB #4121000082 ISSUE DATE DESCRIPTION



PRYOR RD AND LOWENSTEIN DR.

CONTENTS

GENERAL NOTES

02/21/2022 SHEET

TECHNOLOGIES TRANSPORTATION ENGINEERING SOLUTIONS STRUCTURAL ENGINEERING **CONSTRUCTION ENGINEERING** © 2022

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Quality Assurance and Special Inspection

- 1. TESTING LABORATORY: RETAINED BY OWNER AND SATISFACTORY TO ARCHITECT/STRUCTURAL ENGINEER AND LOCAL JURISDICTION TO PERFORM REQUIRED TESTS AND INSPECTIONS OF THIS CONTRACT AND APPLICABLE CODE.
- 2. MATERIAL CERTIFICATION: SUBMIT LABORATORY TEST REPORTS CERTIFYING MATERIALS ARE OF IDENTIFIABLE TESTED STOCK TO OWNER, TESTING LABORATORY, ARCHITECT/STRUCTURAL ENGINEER AND, UPON REQUEST, TO LOCAL JURISDICTION. IF LABORATORY TEST REPORTS CANNOT BE MADE AVAILABLE, TESTING LABORATORY WILL PERFORM TESTS AS DIRECTED BY ARCHITECT/STRUCTURAL ENGINEER. CONTRACTOR SHALL PAY TESTING LABORATORY FOR COSTS RELATED TO TESTS AND INSPECTIONS OF UNIDENTIFIABLE MATERIALS OR MATERIALS FURNISHED WITHOUT LABORATORY TEST REPORTS, MATERIALS FOUND DEFICIENT AFTER INITIAL TESTS AND INSPECTIONS, OR MATERIALS REPLACING DEFICIENT MATERIALS.
- 3. FABRICATOR MUST BE REGISTERED AND APPROVED BY LOCAL JURISDICTION FOR THE FABRICATION OF MEMBERS AND ASSEMBLIES ON THE PREMISES OF THE FABRICATOR'S SHOP.
- 4. THE SPECIAL INSPECTIONS IDENTIFIED ON THIS SHEET ARE, IN ADDITION TO, AND NOT A SUBSTITUTE FOR, THOSE INSPECTIONS REQUIRED TO BE PERFORMED BY A BUILDING INSPECTOR LICENSED BY THE AUTHORITY HAVING JURISDICTION OVER THE PROJECT.
 - A. QUALITY ASSURANCE FOR SEISMIC RESISTANCE:
 - SPECIAL INSPECTION IN ACCORDANCE WITH THE REQUIREMENTS OF IBC SECTION 1704, 1707, AND STRUCTURAL TESTING IN ACCORDANCE WITH THE REQUIREMENTS OF IBC SECTION 1708 SHALL BE REQUIRED FOR:
 - ALL SEISMIC FORCE RESISTING SYSTEMS (I.E. SHEARWALLS)
 - ALL DIAPHRAGMS SHOWN ON PLAN SHEETS.ALL CHORD AND DRAG MEMBERS DENOTED ON PLAN.
 - B. A QUALIFIED AND APPROVED THIRD PARTY INSPECTION AND TESTING AGENCY IN ACCORDANCE WITH IBC 1710.1, ANY DEFICIENCIES OR DISCREPANCIES FROM THAT SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE REPORTED TO THE ENGINEER OF RECORD.
 - C. THE TYPE AND FREQUENCY OF SPECIAL INSPECTION, STRUCTURAL TESTING AND SUBSEQUENT REPORTING CONFORMING TO THE REQUIREMENTS OF IBC SECTION 1704, 1707, AND 1708 SHALL BE SUBMITTED BY THE INSPECTION AND TESTING AGENCIES TO THE ARCHITECT/STRUCTURAL ENGINEER FOR APPROVAL.
 - D. STRUCTURAL OBSERVATIONS AND SUBSEQUENT REPORTING OF GENERAL CONFORMANCE TO THE STRUCTURAL DRAWINGS SHALL BE PERFORMED PERIODICALLY BY THE ENGINEER IN RESPONSIBLE CHARGE AT HIS/HER DISCRETION OR WHEN SPECIFICALLY REQUIRED BY THE BUILDING OFFICIAL.
 - E. QUALITY ASSURANCE FOR GENERAL CONSTRUCTION: SPECIAL INSPECTION IN ACCORDANCE WITH THE REQUIREMENTS OF IBC SECTION 1704 SHALL BE REQUIRED FOR THE FOLLOWING ELEMENTS OF GENERAL CONSTRUCTION.

IBC Table 1705.3

REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION							
VERIFICATION AND INSPECTION	REQUIRED Y/N	CONTINUOUS	PERIODIC	REFERENCED STANDARD ¹	IBC REFERENCE		
 Inspection of reinforcing steel, including prestressing tendons, and placement. 	Y	_	x	ACI 318: 3.5, 7.1-7.7	1910.4		
2. Inspection of reinforcing steel welding in accordance with Table 1705.2.2, Item 2b.	Y	_	_	AWS D1.4 ACI 318: 3.5.2	_		
3. Inspection of anchors cast in concrete where allowable loads have been increased or where strength design is used.	Ŷ	_	x	ACI 318: 8.1.3, 21.1.8	1908.5, 1909.1		
 Inspection of anchors post-installed in hardened concrete members² 	Y	_	x	ACI 318: 3.8.6, 8.1.3, 21.1.8	1909.1		
5. Verifying use of required design mix.	Y	_	x	ACI 318: Ch. 4, 5.2-5.4	1904.2, 1910.2, 1910.3		
6. At the time fresh concrete is sampled to fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.	Y	x	_	ASTM C 172 ASTM C 31 ACI 318: 5.6, 5.8	1910.10		
7. Inspection of concrete and shotcrete placement for proper application techniques.	Y	х	_	ACI 318: 5.9, 5.10	1910.6, 1910.7, 1910.8		
 Inspection for maintenance of specified curing temperature and techniques. 	Y	_	x	ACI 318: 5.11- 5.13	1910.9		
9. Inspection of prestressed concrete:							
a. Application of prestressing forces.		Х		ACI 318: 18.20			
b. Grouting of bonded prestressing tendons in the seismic-force-resisting system.	N	Х	_	ACI 318: 18.18.4	_		
10. Erection of precast concrete members.	N	_	x	ACI 318: Ch. 16	_		
11. Verification of in-situ concrete strength, prior to stressing of tendons in post-tensioned concrete and prior to removal of shores and forms from beams and structural slabs.	N	_	X	ACI 318: 6.2	_		
12. Inspect formwork for shape, location and dimensions of the concrete member being formed.	Y	_	x	ACI 318: 6.1.1	_		

For SI: 1 inch = 25.4 mm.

¹ Where applicable, see also Section 1705.11, Special inspection for seismic resistance.

² Specific requirements for special inspection shall be included in the research report for the anchor issued by an approved source in accordance with ACI355.2 or other qualification procedures. Where specific requirements are not provided, special inspection requirements shall be specified by the registered design professional and shall be approved by the building official prior to the commencement of the work.

IBC Table 1705.6							
REQUIRED VERIFICATION AND INSPECTIONS OF SOILS							
VERIFICATION AND INSPECTION TASK	REQUIRED Y/N	CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED				
1. Verify materials below shallow foundations are adequate to achieve the design bearing capacity.	Y	_	Х				
2. Verify excavations are extended to proper depth and have reached proper material.	Y	-	Х				
3. Perform classification and testing of compacted fill materials.	Y	_	Х				
4. Verify use of proper materials, densities and lift thicknesses during placement and compaction of compacted fill.	Y	X	_				
5. Prior to placement of compacted fill, observe subgrade and verify that site has been prepared properly.	Y	_	Х				



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1 FOUNDATION PLAN

CONTINUOUS FOOTING (CF) SCHEDULE

MADK	WIDTH	I LENGTH	THICKNESS	REINFO		
WARK	WIDTH			TOP	BOTTOM	REIVIARNO
CF1.5	1'-6"	CONT.	3'-0"	(2) #5 CONT.	(2) #5 CONT.	(2) #5 CONT. MID-HEIGHT
CF2.5	2'-6"	CONT.	3'-0"	(2) #6 CONT.	(2) #6 CONT.	(2) #5 CONT. MID-HEIGHT

<u>NOTE:</u>
1. ALL LONGITUDINAL REINFORCING SHALL DOWEL AROUND ALL CORNERS, BENDS AND INTERSECTIONS WITH MINIMUM CLASS B LAP SPLICES.

SPREAD FOOTING (F) SCHEDULE

MARK	017E	THICKNESS	REINFO		
	SIZE		TOP	BOTTOM	REMARKS
F2.0	2'-0" x 2'-0"	2'-0"	(4) #5 E.W.	(4) #5 E.W.	

HOLDOWN SCHEDULE

HOLDOWN		MIN. POST	FASTENERS	ANCHOR BOLT	
TYPE	MANORATORER	SIZE	TAOTENERO	TYPE	EMBED.
HDU11	SIMPSON STRONG-TIE	SEE PLAN	(30) SDS ¼"x2½"	SB 1 x 30	24"
HDU14	SIMPSON STRONG-TIE	SEE PLAN	(36) SDS ¼"x2½"	SB 1 x 30	24"
HD19	SIMPSON STRONG-TIE	SEE PLAN	(5) 1"Ø MACHINE BOLTS	PAB10-36	14"
NOTE:					

. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. 2. HOLDOWN TO FOUNDATION DETAILS, SEE 1/S3.1 AND 2/S3.1. 3. HOLDOWN CONNECTOR BOLTS INTO WOOD FRAMING REQUIRE APPROVED PLATE WASHERS; AND HOLDOWNS SHALL BE FINGER TIGHT AND 1/2 WRENCH TURN JUST PRIOR TO COVERING THE WALL FRAMING. CONNECTOR BOLTS INTO WOOD FRAMING REQUIRE STEEL PLATE WASHERS ON THE POST ON THE OPPOSITE SIDE OF THE ANCHORAGE DEVICE. PLATE SIZE SHALL BE A MINIMUM OF

0.299"x3" x 0'-3".

4. HOLDOWN HARDWARE MUST BE SECURED IN PLACE PRIOR TO FOUNDATION INSPECTION.

PLYWOOD / OSB SHEAR WALL (SW) SCHEDULE

TYPE	SHEATHING	FIELD NAILING (F.N.) &	SILL	5/8" x 7" EMBED. F1554 A36 A.B.	REMARKS	ALLOWABLE UNIT SHEAR (SEE NOTES 6 & 7)	
		(E.N.)	PLATE	SPACING		SEISMIC	WIND
LENGTH	15/32" STRUCT I	10d @ 4" O.C. E.N. & @ 12" O.C. F.N.	2x	36" O.C.	SEE NOTES 1, 2, 3 & 4	510 PLF	715 PLF
LENGTH	15/32" STRUCT I	10d @ 3" O.C. E.N. & @ 12" O.C. F.N.	2x	24" O.C.	SEE NOTES 1, 2, 3 & 4	665 PLF	930 PLF
		a (a) 12 0.0.1 .14.			1, 2, 0 0 4		

NOTES: 1. FRAMING AT ADJOINING PANEL EDGES SHALL BE 2" NOMINAL OR WIDER.

2. ALL ANCHOR BOLTS IN SHEAR WALLS WITH 2x SILL PLATES SHALL HAVE 0.299"x3"x0'-3" PLATE WASHER.

SEE S4.0 FOR TYPICAL SHEATHING DETAILS AND ELEVATIONS.
 FOR ANCHORAGE, SEE 6/S3.0.

5. FRAMING AT ADJOINING PANEL EDGES SHALL BE 3" NOMINAL OR WIDER AND NAILS AT ALL PANEL EDGES SHALL BE

STAGGERED.

6. ALLOWABLE UNIT SHEAR IS PER AWC SDPWS-15 TABLE 4.3A. FOR SHEAR WALLS WITH ASPECT RATIOS GREATER THAN 2:1, THE SEISMIC ALLOWABLE UNIT SHEAR WALL SHALL BE MULTIPLIED BY TWO TIMES THE WALL WIDTH DIVIDED BY THE

WALL HEIGHT, 2b_S/h. 7. ALLOWABLE UNIT LOADS HAVE BEEN REDUCED BY THE ASD REDUCTION FACTOR PER SDPWS-15 SECTION 4.3.3.

FOUNDATION NOTES:

- 1. CONTRACTOR SHALL VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS. CONTRACTOR SHALL NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
- 2. SLAB ON GRADE SHALL BE 5" THICK WITH #4 AT 24" O.C. EACH WAY, 2" CLEAR FROM TOP OF SLAB. FOR METHOD OF PLACING SLAB ON GRADE, SEE 7/S2.0. FOR SLAB JOINT LAYOUT, DEPRESSIONS, SLAB EDGE, ETC., SEE ARCHITECTURAL DRAWINGS.
- 3. VERIFY ALL TOP OF SLAB ELEVATIONS WITH ARCHITECTURAL DRAWINGS.
- 4. SEE DETAIL 7/S3.1 FOR WOOD POST WITHOUT HOLDOWN AT EXTERIOR FOOTING, U.N.O.
- 5. FOR TYPICAL FOUNDATION DETAILS, SEE SHEET S3.0. FOR TYPICAL WOOD FRAMING DETAILS, SEE SHEET S4.0. FOR GENERAL NOTES, SEE SHEETS S0.0, S0.1, AND S0.2.
- 6. IN LIEU OF 6x6 HEADER POSTS INDICATED ON PLAN, (3) 2x6 KING STUDS MAY BE USED WHEN POST DOES NOT DOUBLE AS SHEAR WALL CHORD.

FOUNDATION LEGEND:



5

3

2

0.5

- CONTINUOUS FOOTING, SEE CONTINUOUS FOOTING SCHEDULE. 2x6 WOOD STUD WALL FULL-HEIGHT AT 16" O.C., PER ARCH.
- 2x4 WOOD STUD WALL AT 16" O.C., PER ARCH.
 - INDICATES SHEAR WALL, SEE SCHEDULE.



- INDICATES HOLDOWN, SEE SCHEDULE.



S1.0



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ROOF FRAMING NOTES:

- 1. CONTRACTOR SHALL VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS. CONTRACTOR SHALL NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
- 2. CONTRACTOR SHALL LOCATE ALL MECHANICAL OPENINGS SHOWN WITH DIMENSIONS AND EQUIPMENT SPECIFIED BY THE ARCHITECTURAL AND MECHANICAL DRAWINGS. NOTIFY STRUCTURAL ENGINEER IF ROUGH OPENING IS LARGER THAN INDICATED.
- 3. ROOF JOIST DESIGN CRITERIA SHALL BE AS FOLLOWS:
- A. LOADING:
 MECHANICAL EQUIPMENT: VERIFY w/ MECH. DRAWINGS & SUPPLIER
- SPECIAL LOADING: VERIFY w/ ARCH. B. MAXIMUM LIVE LOAD DEFLECTION IS TO BE L/360.
- C. MAXIMUM TOTAL LOAD DEFLECTION IS TO BE L/240.
- 5. PROVIDE SIMPSON STRONG-TIE H2.5A WALL TIES AT 24" O.C. ALONG ALL EXTERIOR WALLS AND/OR AT EACH TRUSS END, SEE DETAILS 1/S4.1 AND 2/S4.1.
- 6. ALL EXTERIOR POP-OUT AND BOXED-OUT FRAMING SHALL BE SHEATHED WITH TYPE 1 SHEAR WALL FRAMING AS DESCRIBED IN THE SHEAR WALL SCHEDULE, TYPICAL AT ALL EXTERIOR POP-OUTS, ROOF TOP WALLS AND BOX-OUTS.
- PROVIDE DOUBLE 2x12 BLOCKING UNDER PARAPETS WHERE APPLICABLE.
- 8. USE MINIMUM 4x6 POSTS WITH SIMPSON ECC64 CAP FOR ALL 6x HEADERS, U.N.O.
- 9. TRUSS MANUFACTURE TO PROVIDE MINIMUM (3) LINES OF BOTTOM CHORD BRIDGING CONNECTED TO END EXTERIOR END WALLS.
- 10. FOR TYPICAL WOOD FRAMING DETAILS, SEE SHEET S4.0. FOR GENERAL NOTES, SEE SHEETS S0.0, S0.1, AND S0.2.

FRAMING LEGEND:



. <u>T/ ROOF TRUSS</u> 15'-1 1/2" INDICATES ROOF JOIST ELEVATIONS, SEE PLAN



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COA # 2012012048

02/21/2022

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PRYOR RD AND LOWENSTEIN DR.

CONTENTS

ROOF FRAMING PLAN

02/21/2022 SHEET

S2.0



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fc = 4000 PSI or 4500 PSI

BAR	TOP BARS		OTHER BARS	
SIZE	CASE 1	CASE 2	CASE 1	CASE 2
#3	19	28	15	22
#4	25	37	19	29
#5	31	47	24	36
#6	37	56	29	43
#7	54	81	42	63
#8	62	93	48	71
#9	70	105	54	81
#10	79	118	61	91
#11	87	131	67	101
#14	105	157	81	121
#18	139	209	107	161

THIS TABLE FOR USE WITH NORMAL WEIGHT HARDROCK CONCRETE AND GRADE 60 UNCOATED REINFORCING BARS. FOR LIGHTWEIGHT AGGREGATE USE 1.3 l_{d} . l_{d} = TENSION DEVELOPMENT LENGTH SHOWN AT THIS TABLE.

2. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12" OF CONCRETE CAST IN THE MEMBER BELOW THE

3. FOR BARS ENCLOSED IN STANDARD COLUMN SPIRALS, USE 0.75 L OR 12" MIN.

4. TENSION DEVELOPMENT LENGTH OF INDIVIDUAL BARS WITH A BUNDLE SHALL BE 1.2 L FOR THAT BAR IN A 3-BAR BUNDLE AND 1.33 ℓ_{d} FOR A 4-BAR BUNDLE.

5. COMPRESSION DEVELOPMENT LENGTH (ONLY WHERE INDICATED ON DRAWINGS) FOR GRADE 60 BARS USE 22 BAR DIAMETERS. CASES 1 AND 2 ARE DEFINED AS FOLLOWS

BEAMS OR COLUMNS

CASE 1: COVER AT LEAST 1.0 db AND CENTER TO CENTER SPACING AT LEAST 2.0 db. CASE 2: COVER LESS THAN 1.0 db OR CENTER TO CENTER SPACING LESS THAN 2.0 db.

ALL OTHER MEMBERS CASE 1: COVER AT LEAST 1.0 db AND CENTER TO CENTER SPACING AT LEAST 3.0 db.

CASE 2: COVER LESS THAN 1.0 db OR CENTER TO CENTER SPACING LESS THAN 3.0 db.

TENSION DEVELOPMENT LENGTH (FOR CONCRETE ONLY) 10 SCALE: N.T.S.

f'c = 4000 PSI

BAR	LAP	TOP B.	ARS	OTHER BARS		
SIZE	CLASS	CASE 1	CASE 2	CASE 1	CASE 2	
#3	A	19	28	15	22	
<i>"</i> 0	В	24	36	19	28	
# Δ	A	25	37	19	29	
<i>n</i> +	В	32	48	25	37	
#5	А	31	47	24	36	
<i>"</i> e	В	40	60	31	47	
#6	A	37	56	29	43	
# 0	В	48	72	37	56	
#7	A	54	81	42	63	
	В	70	106	54	81	
#8	A	62	93	48	71	
<i>"</i> 0	В	80	121	62	93	
#9	A	70	105	54	81	
	В	91	136	70	105	
#10	A	79	118	61	91	
	В	102	153	79	118	
#11	A	87	131	67	101	
#11	В	113	170	87	131	

NOTES: 1. THIS TABLE FOR USE WITH NORMAL WEIGHT HARDROCK CONCRETE AND GRADE 60 UNCOATED REINFORCING BARS. FOR LIGHTWEIGHT AGGREGATE USE 1.3 ℓ_{d} .

2. CLASS A - HALF OR LESS OF THE BARS ARE SPLICED WITHIN A REQUIRED LAP LENGTH.

CLASS B - MORE THAN HALF OF THE BARS ARE SPLICED WITHIN A REQUIRED LAP LENGTH. 3. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12" OF CONCRETE CAST IN THE MEMBER BELOW THE BAR.

4. FOR BARS ENCLOSED IN STANDARD COLUMN SPIRALS, USE 0.75 l_{d} OR 12" MIN.

5. LAP SPLICES OF INDIVIDUAL BARS WITH A BUNDLE SHALL BE 1.2 $l_{\rm H}$ FOR THAT BAR IN A 3-BAR BUNDLE AND 1.3 $l_{\rm H}$ FOR A 4-BAR BUNDLE. ENTIRE BUNDLES SHALL NOT BE LAP SPLICED AT THE SAME LOCATION. SPLICES FOR INDIVIDUAL BARS WITHIN A BUNDLE SHALL BE STAGGERED SUCH THAT THEY DO NOT OVERLAP. 6. COMPRESSION LAP SPLICE (ONLY WHERE INDICATED ON DRAWINGS) FOR GRADE 60 BARS USE 30 BAR

DIAMETERS. 7. CASES 1 AND 2 ARE DEFINED AS FOLLOWS:

BEAMS OR COLUMNS CASE 1: COVER AT LEAST 1.0 db AND CENTER TO CENTER SPACING AT LEAST 2.0 db.

CASE 2: COVER LESS THAN 1.0 db OR CENTER TO CENTER SPACING LESS THAN 2.0 db. ALL OTHER MEMBERS

CASE 1: COVER AT LEAST 1.0 db AND CENTER TO CENTER SPACING AT LEAST 3.0 db. CASE 2: COVER LESS THAN 1.0 db OR CENTER TO CENTER SPACING LESS THAN 3.0 db.

TENSION LAP SPLICE LENGTH, & (IN INCHES) 11 SCALE: N.T.S.



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NOTE: PROVIDE MINIMUM EDGE DISTANCE OF $1\frac{3}{4}$ " FOR $\frac{1}{2}$ "Ø A.B. AND $2\frac{1}{4}$ " FOR $\frac{3}{4}$ "Ø A.B.

TYP. NOTCHING / BORING / BOLTING OF PLATES ح ک SCALE: N.T.S.



6 TYPICAL TOP PLATE AT CORNER SCALE: N.T.S.











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MECHANICAL SYMBOLS

AH-1	MECHANICAL ZONE EQUIPMENT DESIGNATION- REFER TO MECHANICAL EQUIPMENT TYPES SCHEDULE
	2X2 SUPPLY AIR DIFFUSER- REFER TO MECHANICAL FIXTURE SCHEDULE
	2X2 RETURN AIR GRILLE- REFER TO MECHANICAL FIXTURE SCHEDULE
	2X2 EXHAUST GRILLE- REFER TO MECHANICAL FIXTURE SCHEDULE- DUCT TO COMMON ROOF CENTRIFUGAL EXHAUST FAN LINEAR SLOT SUPPLY DIFFUSER-
SA	REFER TO REFL. CEILING PLAN AND MECH. FIXTURE SCHED. FOR FOR SIZE AND CONFIG.
RA	LINEAR SLOT RETURN GRILLE- REFER TO REFL. CEILING PLAN AND MECH. FIXTURE SCHED. FOR FOR SIZE AND CONFIG.
BLANK	LINEAR SLOT BLANK PANEL- REFER TO REFL. CEILING PLAN FOR SIZE
© SA	OPEN SUPPLY AIR NOZZLE DIFFUSER
—(T)	RTU MANUFACTURER'S THERMOSTAT
TEST	IN-DUCT SMOKE AND CARBON DIOXIDE DETECTOR TEST KEY SWITCHES- HARDWIRE TO SENSOR
	SQUARE ELBOW WITH TURNING VANES
	RADIUS ELBOW
	MANUAL VOLUME DAMPER
	MOTOR OPERATED DAMPER
	BACKDRAFT DAMPER
	FIRE DAMPER
	DUCT MOUNTED SMOKE DETECTOR
	COMBINATION FIRE/SMOKE DAMPER
	FLEXIBLE CONNECTION (DUCTWORK)
	FLEXIBLE CONNECTION OR SEISMIC JOI
	LINED DUCTWORK (OR PLENUM)

\downarrow	FLEXIBLE CONNECTION (DUCTWORK)
7	FLEXIBLE CONNECTION OR SEISMIC JOINT

DUCT RISE IN DIRECTION OF FLOW

MECHANICAL GENERAL NOTES

1. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS ON SHEETS A1.2 FOR POSITIONS, SIZES AND TYPES OF MECHANICAL FIXTURES (SA / RA / TE). 2. 24-HOUR VESTIBULES REQUIRE DUCTED RETURNS TO PREVENT AIR DRAW FROM ADJACENT SPACES WITHOUT SEPARATION

ABOVE THE CEILING. 3. ALL MECHANICAL EQUIPMENT MUST BE ISOLATED FROM THE BUILDING STRUCTURE BY VIBRATION-DAMPENING MOUNTING AND DUCT ACCESSORIES. RIGID EQUIPMENT MOUNTS AND DUCT CONNECTIONS TO EQUIPMENT ARE NOT PERMITTED. 4. RTUS, SPLIT FORCED-AIR SYSTEMS (INCLUDING "MINI-SPLITS"), AND ALL SUPPLEMENTAL HEATING SYSTEMS ARE TO BE CONTROLLED AND MONITORED BY THE BUILDING MANAGEMENT SYSTEM (BMS) FOR CONSTANT VOLUME (CV) SYSTEMS WITHOUT HUMIDITY CONTROL ONLY. REFER TO SHEET E5. MECHANICAL INSTALLER SHALL COORDINATE WITH THE PROJECT ELECTRICIAN FOR CONTROL AND MONITORING DEVICE PROVISION AND INSTALLATION FROM THE COMMON BMS VENDOR. 5. CONTROL AND SENSOR DEVICES ARE NOT TO BE LOCATED ON ANY WALLS OR CEILINGS DESIGNATED FOR AN ACCENT FINISH.

REFER TO THE FLOOR PLANS. 6. POSITION CONTROL DEVICES AS NEAR THE ENDS OF WALLS AS POSSIBLE, SO AS NOT TO INTERFERE WITH MARKETING MATERIAL POSITIONING.

7. ALL THERMOSTATS AND TEST SWITCHES FOR REMOTE SMOKE AND CARBON DIOXIDE DETECTORS SHALL BE POSITIONED IN EMPLOYEE-ONLY AREAS, OUT OF CUSTOMER VIEW.

8. INSTALL DAINTREE WTS10. CONTRACTOR TO PROVIDE MITSUBISHI PAC-US44CN-1 ADAPTER. 9. REFER TO ELECTRICAL DRAWINGS FOR HARDWIRED FAN/LIGHT CONTROL AND TIMERS.

10. THERMOSTAT ADAPTERS MAY BE REQUIRED AT SPLIT SYSTEMS WITH DAINTREE WTS10 THERMOSTATS. VERIFY WITH EQUIPMENT MANUFACTURER.

11. WIRE HUMIDITY SENSORS TO DAINTREE WSA10 ADAPTERS. 12. ROUTE RTU CONDENSATE TO NEAREST ROOF DRAIN VIA PVC PIPING.

13. INTERIOR CONDENSATE SHALL BE PERMITTED TO DRAIN TO THE JANITOR SINK OR EXTERIOR. WHERE DRAINED TO THE EXTERIOR, WALL PENETRATION SHALL BE VIA A COPPER OR GALVANIZED STEEL PIPE WITH STREET ELBOW AND SPLASH

BLOCK. PLASTIC PIPES ARE NOT PERMITTED THROUGH THE EXTERIOR WALL. 14. SPECIFICATION SECTION 230593 EXPLICITLY REQUIRES A TEST AND BALANCE REPORT WHICH MUST BE SUBMITTED TO THE CONSTRUCTION TEAM AND ENGINEER OF RECORD. THE PROJECT WILL NOT BE ACCEPTED AS COMPLETE BY THE OWNER

WITHOUT THE EOR'S REVIEW AND ACCEPTANCE OF THAT REPORT. 15. THE OWNER'S FACILITY MANAGER MUST BE INVITED TO MECHANICAL AND ELECTRICAL SUBCONTRACTOR KICKOFF MEETINGS, AND PERIODIC MEETINGS AND WALK-THROUGHS INVOLVING MECHANICAL AND ELECTRICAL WORK. 16. DUCTED SPLIT SYSTEMS SHALL BE CONTROLLED BY THE DAINTREE SYSTEM (WGA, CT, PRESSURE SENSOR, WSA, DUCT TEMP

SENSOR, REMOTE TEMP SENSOR AND THERMOSTAT). 17. ALL THERMOSTATS FOR THE MINI-SPLIT SYSTEMS SHALL BE HARD WIRED. MINI-SPLITS SHALL HAVE 24V INTERFACE BY CONTRACTOR FROM MANUFACTURER FOR DAINTREE WIRELESS THERMOSTATS.

18. ECONOMIZER UNIT DAINTREE COMPATIBILITY: UNITS CONNECTED TO AN ECONOMIZER THAT IS NOT INTEGRAL TO THE RTU SHALL HAVE MANUFACTURER'S CONTROLS AND CONTROL MODULE FOR MODS. ECONOMIZERS FULLY INTEGRATED WITH RTUS CAN BE CONTROLLED BY THE DAINTREE SYSTEM. 19. DAINTREE DEVICE DIP SWITCH SETTINGS: IT IS THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR TO VERIFY EXACT DIP

SWITCH SETTING PER MANUFACTURER'S CUT SHEET.







MECHANICAL - FLOOR PLAN 1/4" = 1'-0"













MA	RK	MANUFAC
RTI	J-1	CARRI
RTI	J-2	CARRI
RTI	J-3	CARRI
REMA	RKS:	
1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17.	CONT PROV PROV CONT CONT PROV DEVIC PROV PROV PROV PROV PROV UNIT PROV	RACTOR BACI IDE FILTERS T IDE CONDENS IDE WALL MOU RACTOR SHAI RACTOR SHAI IDE WATER-LE IDE WITH 14" H IDE THRU-THE IDE WITH MOT IDE WITH MOT IDE WITH MOT IDE WITH DEH IDE WITH 5-YE SHALL BE U.L. IDE WITH DUC

DATA ROOM VENTILATION FAN SEQUENCE OF OPERATION

FAN CONTROLS

FAN SYSTEM SHALL BE CONTROLLED BY NON-DAINTREE HARDWIRED REVERSE THERMOSTAT.

ON RISE OF TEMPERATURE ABOVE 85°F (ADJ.), EXHAUST FAN SHALL START. ON DROP IN TEMPERATURE OF 5° (ADJ.), FAN SHALL STOP.

THE DDC CONTROLLER SHALL GIVE A DETAILED ALARM SIGNAL TO THE FRONT END FOR FAN FAILURE (CT) AND/OR TEMPERATURE IN ROOM EXCEEDS 90°F FOR 5 MINUTES.

	AIR DEVICE SCHEDULE								
MARK	MANUFACTURER	MODEL	CFM	MODULE	NECK	ACCESSORIES / TRIM	REMARKS		
S-1	TITUS	FL-TZ	200-225	LINEAR SLOT	8" OVAL	BORDER DF WITH STANDARD END CAP	1-3,6,8,12,14,16		
S-2	TITUS	FL-10	175-200	LINEAR SLOT	8" OVAL	BORDER 16 WITH ECX END CAP	1-3,6,8,9,14,16		
S-3	TITUS	omni-aa	75-175	24x24	8" Ø	AG-75, DB, NT BORDER	1-5,8,10, 15		
S-4	PRICE	ANF	80	AIR NOZZLE	6" Ø	-	1,3,8		
S-5	TITUS	FL-10	175	LINEAR SLOT	8" OVAL	MITERED CORNERS	1-3,6,8,11-14,16		
S-6	TITUS	FL-TZ	100	LINEAR SLOT	6" OVAL	BORDER DF WITH STANDARD END CAP	1-3,6,8,12,14,16		
S-7	TITUS	FL-10	300	LINEAR SLOT	10" OVAL	BORDER 16 WITH ECX END CAP	1-3,6,8,9,14,16		
R-1	TITUS	FL-TZ	-	LINEAR SLOT	N/A	BORDER DF WITH STANDARD END CAP	1-3,6-8,12		
R-2	TITUS	FL-10	-	LINEAR SLOT	N/A	BORDER 16	1-3,6-9,14		
R-3	TITUS	350-FL	-	24x24	N/A	BORDER TYPE 3	1-3,7,8,10,11,15		
R-4	TITUS	FL-10	-	LINEAR SLOT	N/A	MITERED CORNERS	1-3,6,8,11-14		
R-5	TITUS	FL-10	300	LINEAR SLOT	10" OVAL	BORDER 16	1-3,6-9,14,16		
REMARKS:									

COORDINATE WITH LIGHT FIXTURES AND OTHER CEILING DEVICES FOR EXACT LOCATIONS OF ALL AIR FIXTURES. COORDINATE FRAME STYLES WITH CEILING OR WALL SYSTEM FRAMING AND FINISH MATERIALS. PROVIDE GYPSUM BOARD / PLASTER FRAME TO SUPPORT FIXTURE WITHIN GYPSUM CEILNG.

N.C. VALUES FOR DIFFUSERS, GRILLES AND REGISTERS SHALL NOT EXCEED 25, WITH A ROOM ABSORPTION RATE OF 10db.

PROVIDE BACK SIDE OF SUPPLY AIR FIXTURES WITH FACTORY-INSTALLED R.6 INSULATION BLANKET. PROVIDE DIRECTIONAL BLOW CLIPS (1-3) AS REQUIRED FOR DIRECTIONAL AIRFLOW CONTROL.

REFER TO ARCHITECTURAL PLAN FOR LINEAR SLOT FIXTURE LENGTHS.

WHERE PLENUM RETURNS ARE UTILIZED, CONCEAL VISIBILITY TO PLENUM SPACE BY PROVIDE DUCT BOOT SECURED TO CEILING FRAMING OR OPTIONAL OPPOSABLE BLADE DAMPERS FOR 2X2 RA GRILLES, AND'FBR' RETURN HOODS AT LINEAR SLOT RA FIXTURES. WHERE RETURN AIR FLOW CONTROL IS REQUIRED, PROVIDE OPTIONAL OPPOSABLE BLADE DAMPERS IN THE 2X2 GRILLES, AND 'FBBO' BLANK-OFFS IN THE LINEAR SLOT FIXTURES. AIR FLOW IS NOT TO BE ADJUSTED BY RE-SIZING OF THE FIXTURE GRILLE AREA.

8. "OR EQUAL" SUBSTITUTIONS PERMITTED. SUBSTITUTIONS MUST BE APPROVED BY THE ARCHITECT OF RECORD BY THE PROCESS DEFINED IN THE PROJECT MANUAL.

9. FLOWBAR DIFFUSER TYPE TO BE SPECIFIED IN PRIVATE OFFICES ONLY. SPECIFY SLOT DIFFUSER WIDTH AS REQD. TO MEET AIR DISTRIBUTION REQUIREMENTS IN THE HIGHEST-DEMAND OFFICE, AND APPLY THAT DIFFUSER THROUGHOUT ALL OFFICES.

10. ALL SA, RA, AND EXHAUST FIXTURES IN 2X2 CEILNG GRIDS SHALL BE 24" X 24" FULL FIXTURES. THE USE OF REDUCED VENT AREAS WITHIN LARGER PLATES TO RESTRICT AIR FLOW IS NOT PERMITTED. AIR FLOW CONTROL IS TO BE PROVIDED BY ADJUSTABLE DAMPERS WITHIN THE DUCTS OR BOOTS SERVING THE FIXTURES.

11. SPECIFY EDGE DETAIL / BORDER TYPE FOR COMPATIBILITY WITH GYPSUM BOARD CEILINGS WHERE REQUIRED. 12. LINEAR SLOT FIXTURES ARE INTENDED TO HAVE A CONTINUOUS, SEAMLESS APPEARANCE FOR THE FULL RUN OF THE CEILING FINISH AS INDICATED IN PLAN, WITHOUT VISUAL DIFFERENTIATION BETWEEN SA, RA, AND UNUSED PORTIONS OF THE RUN. PROVIDE OPTIONAL 'FBR' RETURN HOODS AND 'FBBO' BLANK-OFFS AS REQUIRED.

13. PROVIDE TITUS (OR EQUAL) FBMC-10 MITERED CORNERS.

14. PROVIDE WITH INSULATED PLENUM BOX FOR LINEAR DIFFUSER.

15. PROVIDE WITH PLENUM BOX FOR 24x24 LAY-IN GRILLE. 16. PROVIDE OVAL TO ROUND TRANSITIONS FOR LINEAR SLOT DIFFUSER PLENUMS.

OTHER ACCEPTABLE MANUFACTURER'S INCLUDE PRICE AND TITUS. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

				EXH	AUST FAN S	CHEDULE				
MARK	MANUFACTURUER	MODEL	LOCATION	AIRFLOW (CFM)	TYPE	STATIC PRESSURE (IN. H2O)	VOLTAGE / PHASE	WATTS	DRIVE	REMARKS
EF-1	GREENHECK	SP-B110	RESTROOM	75	CEILING MOUTED	0.5	115/1	8	DIRECT	1-5
EF-2	GREENHECK	SP-B110	RESTROOM	75	CEILING MOUTED	0.5	115/1	8	DIRECT	1-5
EF-3	GREENHECK	SP-B110	JANITOR	75	CEILING MOUTED	0.5	115/1	8	DIRECT	1-5
EF-4	GREENHECK	SP-AP0511W	DATA ROOM	110	CEILING MOUTED	0.5	115/1	20	DIRECT	ALL
REMARKS	S:		•				•	•	•	
1.	PROVIDE THE FOLLOWING:									
1.1.	BACKDRAFT DAMPER,	IF NOT INTEGRAL T	O EQUIPMENT							
1.3	SUPPORT BRACKETS A	AND ISOLATION								
1.4	FLEXIBLE CONNECTION	N								

1.5. EXHAUST GRILLE MATCHING TYPICAL R.A. GRILLE SPECIFICATION, IF NOT INTEGRAL TO EQUIPMENT.

INTERLOCK FAN OPERATION WITH LIGHTING CONTROL

PROVIDE WITH THERMAL OVERLOAD PROTECTION PROVIDE VARIABLE SPEED CONTROLLER

PROVIDE AND MOUNT WITH VIBRATION ISOLATION HARDWARE.

EXHAUST FAN CONTROLLED BY NON-DAINTREE HARDWIRED REVERSE THERMOSTAT PROVIDED BY ELECTRICAL CONTRACTOR.

											R	OOFTO	P UNIT	SCHE	DULE										
	· · · · · · · · · · · · · · · · · · ·	UNI	Г									COOLI	ING						GAS HEATING			FU	ECTRICAL		
					SUPPLY F	AN		EA	т	LA	Т	TOTAL	SENSIBLE		COMPRES	SOR			ONO HEATING		WEIGHT		LOTRICAL		REMARKS
JRER	MODEL	EER	TONNAGE	AIRFLOW (CFM)	OUTSIDE AIR (CFM)	ESP (in H2O)	BHP	EDB (F)	EWB (F)	LDB (F)	LWB (F)	CAPACITY (MBH)	CAPACITY (MBH)	QTY.	STAGING	REFRIGERANT	EAT (F)	LAT (F)	GAS HEATING INPUT / OUTPUT (MBH)	THERMAL EFFICIENCY (%)	(LBS.)	V / Ø / HZ	MCA	МОСР	
R	48FCEB05K3	11.6	4	1595	320	1	2.43	77	64	55	54	47	37.9	1	2	R-410A	58	95	110 / 88	80	650	208/3/60	33	45	1-17
R	48FCEB05K3	11.6	4	1550	310	1	2.43	77	64	55	54	47	36.8	1	2	R-410A	58	95	110 / 88	80	650	208/3/60	33	45	1-17
	48FCEB05K3	11.6	4	1360	280	1	2.43	77	64	55	54	47	32.3	1	2	R-410A	58	95	110 / 88	80	650	208/3/60	33	45	1-17
R R	48FCEB05K3 48FCEB05K3 48FCEB05K3	11.6 11.6 11.6	4 4 4	1595 1550 1360	320 310 280	1 1 1	2.43 2.43 2.43	77 77 77 77	64 64 64	55 55 55	54 54 54	47 47 47	37.9 36.8 32.3	1 1 1	2 2 2	R-410A R-410A R-410A	58 58 58	95 95 95	110 / 88 110 / 88 110 / 88	80 80 80	650 650 650		208/3/60 208/3/60 208/3/60	208/3/60 33 208/3/60 33 208/3/60 33	208/3/60 33 45 208/3/60 33 45 208/3/60 33 45

NET CONTROLLER COMPATIBLE WITH DAINTREE BUILDING ENERGY MANAGEMENT SYSTEM (BMS).

THAT BEAR THE LABEL OF AN APPROVED AGENCY. SATE DRAIN PIPE PER MANUFACTURER'S RECOMMENDATIONS.

UNTED TEMPERATURE AND HUMIDITY SENSOR(S) AS SHOWN ON PLAN OR AS OTHERWISE REQUIRED LL PROVIDE FACTORY INSTALLED HUMIDITY CONTROL AND EQUIPMENT

LL PROVIDE DUEL ENTHALPY ULTRA LOW LEAK ECONOMIZER W/ BAROMETRIC RELIEF.

EVEL MONITORING DEVICE (FLOAT SWITCH). DEVICE SHALL BE INSTALLED INSIDE THE PRIMARY DRAIN PAN AND SHALL BE INTERLOCKED TO SHUT DOWN UNIT. EXTERNALLY INSTALLED DEVICES AND D IN THE DRAIN LINE SHALL NOT BE PERMITTED. PROVIDE PIPING FOR AUXILIARY DRAIN CONNECTION IF AVAILABLE.

NT MANUFACTURER'S COMMISSIONING SERVICE, INCLUDING MANUFACTURER'S REPRESENTATIVE'S TIME ON-SITE TO COMPLETE BAC-NET POINT ASSIGNMENTS AND INITIAL ZONE PROGRAMMING. OVIDED WITH HIGH STATIC DIRECT DRIVE MOTOR.

HIGH ROOF CURB. E-BASE SINGLE POINT POWER CONNECTION WITH FACTORY MOUNTED STARTER.

TORIZED OUTSIDE AIR DAMPER. SER COIL HAIL GUARD.

IUMIDIFICATION SYSTEM. EAR COMPRESSOR AND HEAT EXCHANGER WARRANTY.

TESTED AND CERTIFIED IN COMPLIANCE WITH ANSI Z21.47. CT SMOKE DETECTOR.REFER TO SPECIFICATION FOR ADDITIONAL REQUIREMENTS.

ROOFTOP UNIT - SEQUENCE OF OPERATION

<u>GENERAL</u>

- ROOFTOP UNIT SHALL BE STARTED AND STOPPED VIA DDC CONTROLLER. COORDINATE OCCUPIED AND UNOCCUPIED SCHEDULES WITH OWNER. ALL SETPOINTS SHALL BE ADJUSTABLE. ALL ACTUATORS SHALL BE ELECTRONIC. CONTROLS SHALL BE DAINTREE AND SHALL BE INSTALLED BY A DAINTREE CERTIFIED VENDOR/CONTRACTOR.
- 2. ALL TEMPERATURE SENSORS IN THE UNIT AND DUCTWORK SHALL BE AVERAGING TYPE, EXCEPT FOR FREEZESTATS WHICH SHALL BE LOW POINT READING TYPE.
- 3. PROVIDE APPROPRIATE ANTI-RECYCLE TIME DELAYS AND SAFETIES ON COMPRESSOR AND GAS HEATER STAGING.
- TEMPERATURE SENSOR (BMS WIRED REMOTE TEMPERATURE SENSOR, BAPI #10K-2-R-Z-CG WALL MOUNT) AND HUMIDITY SENSOR (BMS LOW VOLTAGE WIRED HUMIDITY SENSOR, BAPI #BA/HQX-B-C-X-XX-X WALL MOUNT, WIRED TO WSA10 CONCEALED IN CEILING) LOCATED IN 4. CONDITIONED SPACE AS SHOWN ON PLANS. TEMPERATURE AND HUMIDITY SENSORS SHALL COMMUNICATE WITH BMS WIRELESS THERMOSTAT (DAINTREE NETWORKS #WTS10) LOCATED IN WORKROOM AS INDICATED ON PLANS.

FAN CONTROL

OCCUPIED HEATING CONTROL

1. WHILE IN UNOCCUPIED MODE (OR OFF ON SAFETY, OR MANUAL DISCONNECT) THE SUPPLY FAN SHALL BE OFF WITH THE OUTSIDE AIR DAMPER (OAD) CLOSED, THE CONDENSING UNIT AND GAS HEATER OFF, AND THE RETURN AIR DAMPER (RAD) OPEN. 2. WHEN STARTED IN OCCUPIED MODE, THE SUPPLY FAN SHALL START IN RECIRCULATION MODE, THEN THE OAD AND RAD SHALL OPEN TO THE MINIMUM OUTDOOR AIR POSITION AS DETERMINED DURING AIR BALANCING.

1. UPON A DROP IN ROOM TEMPERATURE BELOW THE ROOM HEATING SETPOINT OF 70°F, GAS HEATER SHALL BE STAGED TO MAINTAIN THE SPACE TEMPERATURE SETPOINT. THE REVERSE SHALL OCCUR ON A RISE IN SPACE TEMPERATURE.

2. DISCHARGE AIR TEMPERATURE (DAT) SENSOR SHALL STAGE THE GAS HEATER TO MAINTAIN A MINIMUM TEMPERATURE OF 50°F DURING THE HEATING SEASON. OCCUPIED COOLING CONTROL

- UPON A RISE IN ROOM TEMPERATURE ABOVE THE ROOM COOLING SETPOINT OF 75°F, THE COOLING CYCLE SHALL BE ACTIVATED.
- THE FIRST MEANS OF COOLING SHALL BE ACTIVATION OF THE ECONOMIZER. IF THE OUTSIDE AIR ENTHALPY IS BELOW THE ROOM ENTHALPY, THE OUTSIDE AND RETURN AIR DAMPERS SHALL BE PROPORTIONALLY MODULATED UP TO 100% OUTDOOR AIR TO MAINTAIN SPACE TEMPERATURE SETPOINT. DAT SENSOR SHALL OVERRIDE, IF REQUIRED, TO LIMIT SUPPLY AIR TEMPERATURE TO 55°F MINIMUM DURING ECONOMIZER COOLING (LIMIT SHALL NOT RESULT IN REDUCTION OF THE MINIMUM OUTDOOR AIRFLOW). IF ADDITIONAL COOLING IS REQUIRED, THE CONDENSING UNIT'S COMPRESSORS SHALL BE STAGED ON AS REQUIRED. FOR LOW LOAD OPERATION, HOT GAS BYPASS (HGB) SHALL BE USED. THE REVERSE SHALL OCCUR ON A DROP IN SPACE TEMPERATURE BELOW COOLING SETPOINT.
- IF THE OUTSIDE AIR ENTHALPY RISES ABOVE THE ROOM AIR ENTHALPY, THE ECONOMIZER SHALL BE POSITIONED TO PROVIDE MINIMUM OUTDOOR AIRFLOW, AND THE CONDENSING UNIT STAGED TO MAINTAIN ROOM COOLING SETPOINT TEMPERATURE. DAT SENSOR SHALL LIMIT 3 SUPPLY AIR TO 48°F MINIMUM, DURING MECHANICAL COOLING.

OCCUPIED DEHUMIDIFICATION CONTROL

- 1. IF ROOM RELATIVE HUMIDITY (RH) RISES ABOVE 62% FOR TEN MINUTES AS MEASURED BY HR, DEHUMIDIFICATION CYCLE SHALL BE ACTIVATED.
- 2. WHEN ACTIVATED, COOLING COIL LEAVING AIR TEMPERATURE (CCLT) SENSOR SHALL STAGE THE CONDENSING UNIT TO MAINTAIN 56°F. ROOM TEMPERATURE SENSOR (TR) SHALL STAGE GAS HEATER AS REQUIRED TO MAINTAIN HEATING SETPOINT OF 70°F.
- 3. WHEN RH FALLS BELOW 58% FOR TEN MINUTES, DEHUMIDIFICATION CYCLE SHALL END.

UNOCCUPIED CONTROL

WHEN THE UNIT IS OFF, IF THE ROOM TEMPERATURE FALLS BELOW 56°F, THE UNIT SHALL START WITH RAD OPEN, AND OAD CLOSED; GAS HEATER SHALL BE CONTROLLED BY DAT SENSOR TO SUPPLY 90°F AIR. WHEN ROOM TEMPERATURE RISES ABOVE 60°F, THE UNIT SHALL SHUT DOWN.

2. BUTTON ON THERMOSTAT SHALL ALLOW 2-HOUR OVERRIDE FROM UNOCCUPIED TO OCCUPIED CONTROL.

WARM-UP CONTROL

DDC CONTROLLER SHALL PROVIDE OPTIMUM START CAPABILITY. IF SPACE TEMPERATURE IS BELOW 63°F, WARM-UP SHALL BE DONE WITH RAD OPEN, OAD CLOSED, AND GAS HEATER CONTROLLED BY DAT SENSOR TO SUPPLY 90°F AIR. WHEN ROOM TEMPERATURE RISES ABOVE 69°F, OCCUPIED MODE SHALL START.

SAFETIES

- THE FOLLOWING SAFETIES EACH WITH ITS OWN MANUAL RESET BUTTON, SHALL SHUT DOWN THE UNIT VIA HARDWARE.
- a. ANY FREEZESTAT (FZ) SHALL SHUTDOWN THE UNIT WHENEVER THE TEMPERATURE IS LESS THAN 35°F AND ALL DAMPER SHALL CLOSE
- b. WHEN ANY SMOKE DETECTOR (SDET) IS ACTIVATED THE UNIT SHALL SHUT DOWN AND ALL DAMPERS SHALL CLOSE.

ALARMS

1. IF THE SUPPLY FAN FAILS, OR IF ANY SAFETY IS TRIPPED, THE DDC CONTROLLER SHALL GIVE A DETAILED ALARM SIGNAL TO THE FRONT END.

2. IF FILTER PRESSURE DROP EXCEEDS SETPOINT (INITIALLY 0.6" W.G.) FOR 10 MINUTES, THE DDC CONTROLLER SHALL GIVE A DETAILED ALARM SIGNAL TO THE FRONT END.

LOSS OF POWER

PROVIDE AUTOMATIC RE-START UPON POWER FAILURE AND UPON RETURN TO NORMAL POWER.

				SPL	IT SYSTEM S	SCHEDULE					
	MODEL	AIRFLOW	TOTAL COOLING	SEED	HEATING CAPACITY		ELECTRICAL			DEMADKS	
MARK MANUFACTURUER		MODEE	(CFM)	(BTUH)	SEEK	(MBH AT 47° / 5°)	V/Ø/HZ	MCA	MOCP		NEMANNS
IU-1 / OU-1	MITSUBISHI	PUY-A18NKA7 / PKA-A18LA	265 / 310 / 385 / 455	18,000	19.8	-	208/1/60	11	30	30	1-11
IU-2 / OU-2	MITSUBISHI	SEZ-KD12NA4R1 / SUZ-KA12NA2	247 / 317 / 388	12,000	20.5	15,000 / 7,900	208/1/60	9	16	50	1-4,6,7,9,10-12
REMARKS	6:										

PROVIDE THERMAL OVERLOAD PROTECTION.

- 2. PROVIDE WATER-LEVEL MONITORING DEVICE (FLOAT SWITCH). DEVICE SHALL BE INSTALLED INSIDE THE PRIMARY DRAIN PAN AND SHALL BE INTERLOCKED TO SHUT DOWN UNIT.
- EXTERNALLY INSTALLED DEVICES AND DEVICES INSTALLED IN THE DRAIN LINE SHALL NOT BE PERMITTED. 3. PROVIDE LIQUID LINE SPECIALTIES INCLUDING FILTER DRIER, SIGHT GLASS, TXV, SOLENOID VALVE, 24V 1ph CONTROL WIRE BY CONTROLS CONTRACTOR.
- 4. PROVIDE WALL MOUNTED WIRELESS REMOTE CONTROL THERMOSTAT.
- 5. PROVIDE WITH INTEGRAL CONDENSATE PUMP AND FREEZE PROTECTION (LOW AMBIENT OPERATION).
- 6. PROVIDE REFRIGERANT PIPING SIZED AS PER MANUFACTURER'S RECOMMENDATIONS. "ACR" COPPER ONLY.
- 7. PROVIDE CRANKCASE HEATER.
- 8. PROVIDE PIPING FOR AUXILIARY DRAIN CONNECTION IF AVAILABLE.
- 9. PROVIDE LOW AMBIENT KIT FOR WINTER COOLING DOWN TO 0 DEG F AMBIENT OUTSIDE AIR TEMPERATURE.
- 10. PROVIDE WITH BMS WIRELESS THERMOSTAT AND ADAPTER (MITSUBISHI PAC-US444CN-1). 11. COORDINATE ROUTING AND SIZING OF REFRIGERANT PIPING WITH MANUFACTURER.
- 12. CONDENSATE SHALL GRAVITY DRAIN TO OUTSIDE.

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PRYOR ROAD &	908 NW PRYOR ROAD LEE'S SUMMIT, MO 64081
EBI ISSUE DATE	JOB #4121000090 DESCRIPTION
CH. PRYOR PRO	ASE CONTENTS
MECHAN	IICAL SCHEDULES 02/04/2022 SHEET M-3



TAG	DESCRIPTION
PF-WC	FLOOR-MOUNT WATER C
PF-LAV	WALL-MOUNT LAVATORY
PF-SINK	LOUNGE SINK
PF-MOP	MOP SINK
PF-WH	DOMESTIC WATER HEATI
PF-DF	DRINKING FOUNTAIN
PF-WHB	WALL HOSE BIB
PF-RHB	ROOF HOSE BIB
PF-FD	FLOOR DRAIN
PF-RD1	ROOF DRAIN- LARGE
PF-OD1	ROOF OVERFLOW- LARG
PF-DN1	DOWNSPOUT NOZZLE
PF-GCO	GROUND CLEAN-OUT
PF-WCO	WALL CLEAN-OUT
PF-FCO	FLOOR CLEAN-OUT
11-100	

PLUMBING SYMBOLS LEGEND EXISTING SANITARY BELOW SLAB EXISTING SANITARY ABOVE SLAB SANITARY BELOW SLAB SANITARY ABOVE SLAB — — — — EXISTING VENT **— — — —** VENT ----- COLD SUPPLY ----- HOT SUPPLY FIXTURE VALVE AND NIPPLE \sim WITH HAMMER ARRESTOR (PF) WC SCHEDULED PLUMBING FIXTURE (EX) WC EXISTING PLUMBING FIXTURE EXISTING TO BE RELOCATED PLUMBING FIXTURE ROUGH CLEAN-OUT CONCEALED BEHIND WALL OR CEILING FINISHES |Ó| BALL VALVE BRANCH SHUT-OFF GRADE. CHECK VALVE И P-TRAP OC DC FLOOR DRAIN

				PLUMBING FI	ATURE SCHEL	JULE			
RIPTION	COMPONENT	MANUFACTURER	MODEL	CW	HW	SAN	VENT	FINISH	NOTES
ATER CLOSET	WATER CLOSET	KOHLER	K-3519/3519-RA HIGHLINE					WHITE/CHROME	
	OPEN-FRONT SEAT	KOHLER	K-4650	1/2"		4"	2"	WHITE	
	SUPPLY							POL. CHROME	3/8" NPT RIGHT ANGLE VALVE WITH LOOSE KEY STOP AND ANNEALED CHROME-PLATED COPPER RISER
VATORY	LAVATORY	AMERICAN STANDARD	0356.115/137 LUCERNE					WHITE	COORD. MODEL NUMBER TO POSITION SOAP DISPENSER AT WALL-SIDE OF LAV.
	STRAINER	AMERICAN STANDARD	2411.015					POL. CHROME	WITH OVERFLOW AND TAILPIECE
	P-TRAP		1 1/4"					POL. CHROME	WITH ESCUTCHEON AND CLEANOUT
	FAUCET	SLOAN	EAF-200-P-ISM	1/2"	1/2"	2"	2"	POL. CHROME	WITH AC POWER ADAPTER
	SUPPLIES		3/8"					POL. CHROME	POL. CHROME FLEX TUBE SUPPLIES, ESCUTCHEONS AND KEY STOPS
	LAV GUARD	TRUEBRO	LAV GUARD 2 EZ-SERIES					WHITE	COVER TAILPIECE, P-TRAP, SUPPLIES AND VALVES
	SOAP DISPENSER								REFER TO TOILET ACCESSORIES SCHEDULE
	SINGLE-BOWL SINK	ELKAY	LRAD 202255-MR2					STAINLESS STEEL	
	STRAINER		3 1/2"					STAINLESS STEEL	
	P-TRAP			1/2"	1/2"	2"	2"	PVC	
	FAUCET	ELKAY	LK3000CR					POL. CHROME	INSTALL OPTIONAL 2.2GPM FLOW REGULATOR
	SUPPLIES		3/8"						FLEX HOSE SUPPLIES AND POL. CHROME KEY STOPS
	FLOOR SINK	MUSTEE	63M					WHITE	
	FAUCET	MUSTEE	63.600A					CHROME	WITH INTEGRAL VACUUM BREAKERS
	HOSE AND BRACKET	MUSTEE	65.700	3/4"	3/4"	3"	2"	STAINLESS STL.	SHORTEN HOSE TO PROVIDE AIR GAP
	MOP HANGER	MUSTEE	65.600					STAINLESS STL.	
	SPLASHES	BY G.C.	FRP-1					FRP	REFER TO INTERIOR ELEVATIONS
R HEATER	WATER HEATER	A.O. SMITH	EJC-10	1-1/4"	1-1/4"				OR EQUAL 10-GAL ELEC. WATER HEATER, 6kW ELEMENT, 240V/1PH ALT: TANKLESS ELECTRIC OR GAS-FIRED UNIT, SIZED AS REQD.
	WALL-MT. BRACKET / DRIP PAN	HOLDRITE	40 SWHP-W						MAINTAIN 81" MIN. HEADROOM CLEARANCE TO FLOOR BELOW
AIN		ELKAY	EZSTL8WSSK	1/2"		2"	2"	STAINLESS STEEL	WITH BOTTLE FILLER
		WOODFORD	B65	3/4"				CHROME	18" ABOVE T.O. FND.
		WOODFORD	RHY1-MS	3/4"				PRE-FIN. PAINT	
	FLOOR DRAIN	ZURN	415S-Y-P					NICKEL BRONZE	W/ SEDIMENT BUCKET
	TRAP SEAL	JAY R. SMITH	2692-04			3"	2"		
RGE		ZURN	ZC100-DP-VP			REFER TO DRAWINGS		CAST IRON	PROVIDE PERIMETER BLOCKING TO RAISE DECK PLATE TO ROOFING LEVEL; INCLUDES DECK MOUNTING PLATE AND SECURED STRAINER
V- LARGE		ZURN	ZC100-DP-VP-89			REFER TO DRAWINGS		CAST IRON	PROVIDE PERIMETER BLOCKING TO RAISE DECK PLATE TO ROOFING LEVEL; INCLUDES DECK MOUNTING PLATE, SECURED STRAINER AND OVERFLOW DAM
ZZLE		ZURN	ZANB199-SS 4"					NICKEL BRONZE	4" DIA., WITH REMOVABLE SCREEN
OUT		ZURN	Z1440/Z1475					STAINLESS STEEL	
Г		ZURN	Z1446					STAINLESS STEEL	
			701100						

PLUMBING GENERAL NOTES

 CONTRACTOR SHALL PROVIDE COMPLETE PLUMBING SYSTEMS AS DETAILED ON THESE DRAWINGS. WORK CONSISTS OF FURNISHING ALL MATERIALS, EQUIPMENT, AND SERVICES REQUIRED FOR COMPLETE SYSTEMS. INCLUDE ANY INCIDENTAL APPARATUS, APPLIANCES, MATERIAL LABOR AND SERVICES NECESSARY TO MAKE NEW WORK COMPLETE IN ALL RESPECTS AND FULLY READY FOR OPERATION.

2. VERIFY THE EXACT LOCATION OF EXISTING SANITARY SEWERS AND WATER MAINS FROM THE ACTUAL JOB SITE PRIOR TO SUBMITTING BID. SUBMISSION OF YOUR PROPOSAL SHALL BE CONSTRUED AS INDICATING SUCH KNOWLEDGE. NO ADDITIONAL PAYMENT WILL BE MADE ON CLAIMS THAT ARISE FROM THE CONTRACTOR'S FAILURE TO COMPLY WITH THIS REQUIREMENT.

 MAKE SUCH OFFSETS AND DEVIATIONS FROM WORK SHOWN ON THE DRAWINGS, AS MAY BE NECESSARY TO FIT THE ACTUAL SPACE CONDITIONS

4. WHERE VALVES OCCUR ABOVE DRYWALL OR PLASTER OR ARE CONCEALED BEHIND WALLS, THIS CONTRACTOR SHALL FURNISH AND INSTALL ACCESS PANELS. COORDINATE COLOR AND STYLE WITH ENGINEER/ARCHITECT.

5. INSTALLER SHALL NOT CUT ANY STRUCTURAL MEMBERS WITHOUT FIRST SECURING WRITTEN APPROVAL FROM THE ARCHITECT.

6. PROVIDE DIELECTRIC UNIONS AT ALL CONNECTIONS BETWEEN DISSIMILAR PIPING METALS.

7. NO VENT THROUGH ROOF SHALL TERMINATE CLOSER THAN 10 FT. TO ANY OUTSIDE AIR INTAKE OR VENTILATION LOUVERS, DOORS, WINDOWS AND OTHER BUILDING OPENINGS.

8. SANITARY SEWER AND MAIN WATER PIPING UNDERGROUND SHALL BE A MINIMUM OF 42" BELOW EXTERIOR

9. PIPING IN CONCRETE BLOCK WALLS SHALL BE INSTALLED AS BLOCK IS BEING LAID. DO NOT CUT BLOCK WALL.

10. PROVIDE ALL SINKS AND LAVATORIES WITH TRAP FITTINGS FOR CLEANOUT

OWNER.

11. CONTRACTOR IS RESPONSIBLE TO ALSO CHECKING FIELD CONDITIONS PRIOR TO BIDDING AND REPORT ANY PROBLEMS/CONFLICTS TO THE ENGINEER WITHIN 2 DAYS OF DISCOVERY. ANY CHANGES RESULTING FROM CONDITIONS ARISING IN THE FIELD WHICH WERE NOT BROUGHT TO THE ENGINEER'S ATTENTION ARE TO BE MADE BY THIS CONTRACTOR WITH NO ADDITIONAL COST TO THE OWNER

12. ALL WORK IS TO BE FREE OF DEFECTS IN WORKMANSHIP AND MATERIALS FOR A PERIOD OF ONE(1) YEAR FROM DATE OF FINAL ACCEPTANCE. ALL DEFECTS WHICH DEVELOP OR ARE DISCOVERED WITHIN THIS PERIOD SHALL BE REPAIRED BY THE CONTRACTOR TO THE SATISFACTION OF THE OWNER AT NO ADDITIONAL COST TO THE

13. UPON COMPLETION OF THE WORK UNDER THIS CONTRACT, THE CONTRACTOR SHALL REMOVE ALL TOOLS, APPLIANCES, SURPLUS MATERIALS, AND SCRAP. ALL IDENTIFIED EXISTING EQUIPMENT TO BE REMOVED SHALL BE TURNED OVER TO THE OWNER.

14. THE CONTRACTOR SHALL COORDINATE WORK WITH OTHER TRADES IN ORDER TO AVOID CONFLICTS.

 THE CONTRACTOR SHALL PROVIDE ALL CHROME EXPOSED TRAP PRIMER CONNECTIONS BELOW LAVATORIES
 PLUMBING CONTRACTOR SHALL PROVIDE NAMEPLATE INFO TO THE FACILITY MANAGER FOR WATER HEATER, AND RPZ.









(#) SHEET NOTES

- SCHEDULED WATER HEATER AND WALL-MOUNT PLATFORM WITH DRIP PAN ABOVE MOP SINK. REFER TO DETAIL ON SHEET P-4.
- 2. NO PLUMBING SHALL BE ROUTED THROUGH DATA ROOM.
- VENT THROUGH ROOF. COORDINATE LOCATION WITH RTU OUTSIDE AIR INTAKES.
 VTR SHALL NOT BE WITHIN 10'-0" OF OUTSIDE AIR INTAKES.
- 4. CONTINUED TO SITE. REFER TO CIVIL DRAWINGS FOR CONTINUATION.
- 5. COORDINATE ALL UNDERSLAB ROUTING WITH STRUCTURAL MEMBERS AND FOOTINGS. TYPICAL THROUGHOUT BUILDING.
- 6. STORM DRAIN ROUTED WITHIN WALL TO BELOW SLAB.
- SET DOWNSPOUT NOZZLE INVERT 1'-0" ABOVE TOP OF FOUNDATION.















- 1. SCHEDULED WATER HEATER AND WALL-MOUNT PLATFORM WITH DRIP PAN ABOVE MOP SINK. REFER TO DETAIL ON SHEET P-4.
- 2. NO PLUMBING SHALL BE ROUTED THROUGH DATA ROOM.
- 3. 3/4" CW AND 3/4" HW ROUTED TO MOP SINK.
- 4. PROVIDE WATER HAMMER ARRESTOR DEVICE. REFER TO DETAIL ON SHEET P-4 FOR LOCATION AND QUANTITY REQUIREMENTS.
- 5. 1/2" CW TO COFFEE MAKER. PROVIDE WITH BACKFLOW PREVENTER.
- 6. 1-1/4"HW AND 1-1/4"CW ROUTED TO/FROM HOT WATER HEATER.
- 7. LOCATION OF BACKFLOW PREVENTER ASSEMBLY. PROVIDE BACKFLOW PREVENTER TESTING TO ENSURE PROPER FUNCTION. REFER TO DETAIL ON SHEET P-3.
- 8. LOCATION OF WATER METER AND BUILDING MAIN SHUT-OFF VALVE.
- 9. UNDERGROUND DOMESTIC WATER CONTINUED TO SITE. COORDINATE WITH CIVIL.
- 10. 3/4" CW ROUTED TO HOSE BIBB ON ROOF. REFER TO SHEET P-3 FOR CONTINUATION.
- 11. LOCATION OF NEW GAS METER. 1-1/4" GAS PIPING ROUTED ON EXTERIOR OF BUILDING TO ROOF. REFER TO SHEET P-3 FOR CONTINUATION.
- 12. CONTINUED TO IRRIGATION ZONES. REFER TO CIVIL.
- 13. LANDSCAPE IRRIGATION SYSTEM CONTROLLER AND WIRELESS NETWORK LINK. PROVIDE WITH DEDUCT METER. PROVIDE WITH 25 GPM BACKFLOW PREVENTER. PROVIDE BACKFLOW PREVENTER TESTING TO ENSURE PROPER FUNCTION.





















			TURE SCHEDULE		ELECTRICAL SYMBOLS		SECURITY SYMBOLS	BMS SYMBOLS	
ТҮРЕ	MANUFACTURER	MODEL		DESCRIPTION	LIGHT FIXTURE: CEILING SURFACE-MOUNT OR PENDANT	SPD SURGE PROTECTION DEVICE		BMS AND OTHER CONTROL DEVICES TO BE ORDERED FROM THE BMS	
L-2	GE	LBT22A033MM835VQLTWHTE	34W 3500K LED	2x2 REC. LENSED 34W 3500K LED TROFFER		DED. INDICATES DEDICATED CIRCUIT		ELECTRICIAN	
L-2 (ALT)	LITELINE	LEDP-22-WH-WHIP-35-30-120./277	30W 3500K LED	2x2 REC. LENSED 30W 3500K LED PANEL			360 DEG. CEILING-MOUNT MOTION DETECTOR	$\left(\left(\left(\left\lfloor T \\ \phi \right\rfloor \right)_{ZONE} \right) AINTREE NETWORKS #WTS10 \right)$	
	CE CE		3300 lm 34W 3500K LED			EM INDICATES LIGHT FIXTURE WITH INTEGRAL 90-MINUT	TE $- \bigoplus_{c}$ CEILING-MOUNT 'CURTAIN' MOTION DETECTOR	TS ZONE (PREFERRED):	
	GE		3490 lm 30W 3500K LED			FIXTURES AS REQUIRED BY CODE)	WALL-MOUNT MOTION DETECTOR AT 84" AFF	BAPI #10K-2-R-Z-CG (WALL MOUNT)	
L-2-EM (ALT)	LITELINE	LEDP-22-WH-WHIP-(EM)-35-30-120./277	3490 lm	L-2 (ALTERNATE) FIXTURE WITH EMERGENCY LIGHT DRIVER		NL INDICATES 24-HOUR "NIGHT LIGHT" FIXTURE CONNE	CTED SAFE ALARM PACKAGE	OTS BMS EXTERIOR HARDIRED TEMPERATURE SENSOR: BAPI #BA/10K-2-O-BB2	
L-3	FEELUX	(2) TUN7-35K-SF-STD-S-HW-OCC-120	~900 Im TOTAL	(2) 20.7" LED UNDERCAB. LIGHT WITH OCCUPANCY SENSOR		ADDITIONAL FIXTURES AS REQUIRED BY CODE)		BMS WIRED DUCT TEMP. SENSOR	
L-4	LUMIERE	LANTERRA 9004-W2-RW-LED 4080-W-W-CS-L1-UNV-WIS	(2) 10W 4000K LED	120V EXTERIOR UP/DOWN SCONCE WITH INTEGRAL LED DRIVER	LIGHT FIXTURE: GRID-RECESSED LINEAR TROFFER	GFCI GROUND FAULT CURRENT INTERRUPTER	HOLD-UP BUTTON- SET WALL-MOUNTED UNITS 36-44" AFF	BAPI #10K-2-D-4-BBX OR SIMILAR	
L-4 (ALT)	LUMIERE	LANTERRA 9004-W1-RW-LED 4080-W-W-CS-L1-UNV-WIS	(2) 10W 4000K LED	FIXTURE FOR "DARK SKY" COMPLIANCE JURISDICTIONS ONLY	LIGHT FIXTURE: LINEAR SURFACE-MOUNT UPLIGHT	(E) EXISTING TO REMAIN	WIRELESS HOLD-UP BUTTON: ONLY AT OVAL BCM DESKS	PRESSURE SENSOR- ADJUSTABLE RANGE: BAPI #BA/ZPM-LR-ST-D	ng.cc
				SINGLE REMOTE 19W 0-10V DIMMING POWER SUPPLY SHARED BY TWO		-ES ELECTRIC STRIKE	-L ALARM LAMP AT 84" AFF	HS BMS LOW VOLTAGE WIRED HUMIDITY SENSOR: BAPI #BA/HQX-B-C-X-XX-X (WALL MOUNT), WIRED TO WSA10	
L-D	IGUZZINI	I.BU27-REM-01 + 4549-0350-019-0NV-ED10	(1) 600 LED	SILICONE-GLUED IN-PLACE TO ILLUMINATE ADJ. WALL AND CEILING ONLY AS					S, IN Dicon FOR THE U
	CE	LDXB-4R-0-10-T-35-V1 + RDI4R-W-PT-WT-WT-WR + BH3			OCCUPANCY SENSOR	-(PB) LOW-VOLTAGE PUSH BUTTON	Above Geiling	BMS LOW VOLTAGE WIKED LEAK DETECTOR. BAPI #RBA-BA/LDT1-PS-BB, WIRED TO WGA100	
	GE	(OPTIONAL)	14W 3300K LED	4 ROUND 14W 3500R LED LENSED DOWNLIGHT - WET RATED	LIGHT FIXTURE: CEILING-MOUNT OR SUSPENDED LINEAR STRIP	NEMA L-5-20R RECEPTACLE ON A DEDICATED 120V, J	20A TELLER LINE CAM CONTROL MOUNTED UNDER COUNTER BY CAM TECH, 1 AT EACH TELLER LINE	CO2 BMS HARDWIRED CO2 SENSOR: BAPI #RBA-BA/BS4-DCD10-BNK, WIDED TO WSA10	Burlin Burlin J wv PROPER- PRO
L-7-EM	GE	(OPTIONAL)	14W 3500K LED	L-7 FIXTURE WITH EMERGENCY LIGHT DRIVER	EXIT SIGN INDICATING LIGHTED SIDE(S) AND EGRESS	CIRCUIT, MOUNTED AT 18" AFF	AXIS #FA54; GS&I #2	(((\$ ZONE DAINTREE NETWORKS #WWD1_EUNCTIONS AS SWITCH AND/OR	
L-7-R	LF ILLUMINATION	5811-1SA-T-20L-8040-W-1-BB	20W 4000K 80 CRI LED	EXTERIOR CANOPY RECESSED CAN, BLACK TRIM	BATTERY-POWERED TWIN HEAD EMERGENCY LIGHT		VENDOR AXIS #F41; GS&I #1, 23	DIMMER, USE AS MANUAL ON/OFF, MANUAL ON / AUTO OFF	Stree USTREEV
L-7-R-EM	LF ILLUMINATION	5811-1SA-T-20L-8040-W-1-BB-EM	20W 4000K 80 CRI LED	TRIM	SINGLE-POLE DOUBLE-THROW LINE VOLTAGE TOGGLE		AXIS #FA1105 IN PARABIT MOUNT; GS&I #2A/B	WIRELESS OCCUPANCY SENSOR, CEILING RECESSED-MOUNT:	E E E E E E E E E E E E E E E E E E E
L-7 (ALT)	AMERLUX	L7 - HDL-HP-R-NC-A17-1-16-120V-0-10V (HOUSING) + HDL-HP-RLD-A17-T-MWW-65SOL-359-WET	18W 3500K LED	4" ROUND 18W 3500K LED LENSED DOWNLIGHT - WET RATED	SWITCH د KEY SWITCH- REFER TO DOOR HARDWARE SCHEDULE		INTEGRATED LENS- ATM		
		(TRIM) L7EM - HDL-HP-R-NC-A17-T-16-120V-0-10V-EM					AXIS #F1004; GS&I #1A, 23A	DAINTREE NETWORKS #WPS1	
L-7-EM (ALT)	AMERLUX	(HOUSING) + HDL-HP-RLD-A17-T-MWW-65SOL-359-WET (TRIM)	18W 3500K LED	L-7 ALTERNATE FIXTURE WITH EMERGENCY LIGHT DRIVER	SWITCH WITH PILOT LIGHT		FS INTEGRATED BY ATM VENDOR	AUX ACCESSIBLE JUNCTION BOX ABOVE CEILING	
L-7 (ALT)	USAI	RD-DL-BEVELED-PRIMARY-NCSM-35K-90CRI-1000L-WHIT	15W 3500K LED	4" ROUND 15W 3500K LED LENSED DOWNLIGHT - WET RATED	1385W OR EQUAL		→ MUL INTEGRATED LENS- MULLION	WAPM))) WIRELESS ADAPTER:	SIGNED BY:
		E CONE-WET RATED-27" RD-DL-BEVELED-PRIMARY-NCSM-35K-90CRI-1000L-WHIT	4000 lm 15W 3500K LED		30A DOUBLE POLE SWTCH 		AXIS #P1265; GS&I #8	DIMMING DRIVER CAPACITY (10 DRIVERS TYP.)	ESTE OF MISS
		E CONE-WET RATED-27"-EMPK	4000 lm	SURFACE-MOUNT AT CEILINGS UP TO 10'. CABI F-MOUNT AT CEILINGS OVER	115 V DUPLEX WALL OUTLET		-M 84" VIDEO MONITOR- REQUIRES 120V/15A POWER AND JUNCTION BOX WITH OPEN 1.25" CONDUIT TO CEILING	WGA))) WIRELESS GENERAL ADAPTER: DAINTREF NETWORKS #WGA100 GENERAL PURPOSE	JERMAINE F
L-8	GE	ALC6-1-4104-1-C8-1D-S-Q-Q-Q-[ST/51]-[K/A]-Q-W	27W 3500K LED		115 V DUPLEX WALL OUTLET- CONTROLLED (ONLY WHERE REQD. BY ENERGY CODE)		NVR VIDEO RECORDER		WILLIAMS X
L-8-EM	GE	ALC6-1-4T04-T-C8-1D-S-Q-Q-E-[ST/51]-[K/A]-Q-W	27W 3500K LED	10'. INCLUDES EMERGENCY BATTERY.	115 V DUPLEX WALL OUTLET SPLIT-CONTROLLED (ONLY			WSA))) WIRELESS SENSOR ADAPTER: DAINTREE NETWORKS #WSA10	PE-2021014472
L-11	GE	LDXB-4R-0-10-T-35-V1 + RDI4R-W-PT-WT-WT + BH3 (OPTIONAL)	14W 3500K LED	4" ROUND 14W 3500K LED LENSED DOWNLIGHT- WET RATED, PROVIDE MATTE BLACK FLANGE IN WOOD ACCENT CEILINGS				LD LEAK DETECTION SENSOR: DAINTREE #RBA-BA/LDT1-PS-BB;	SSIONAL ENGE
L-11-EM	GE	LDXB-4R-0-10-T-35-V1-EL + RDI4R-W-PT-WT-WT + BH3	14W 3500K LED	L-11 FIXTURE WITH EMERGENCY LIGHT DRIVER	('QUAD BOX')		DATASYMBOLS	PROVIDE AT ROOMS WITH WATER HEATERS, SUMP/EJECTOR PITS, OR THE	Jermaine F Williams 2022.03.02 21:39:55-05'00'
I -11 (ALT)		L11 - HDL-HP-R-NC-A17-T-16-120V-0-10V	18W/ 3500K LED	4" ROUND 18W 3500K LED LENSED DOWNLIGHT, PROVIDE MATTE BLACK	LEGRAND EFB45 FLOOR-RECESSED JUNCTION BOX W/ ALUM. COVER AND INTERNAL ACCESSORIES AS INDICATED		TELE/DATA SYSTEM TERMINAL IN WALL PLATE- NUMBER	CHARRENT TRANSFORMER: FP DAINTREE #CR9580-10-M WIRED TO	
		(HOUSING) + HDL-HP-RLD-A17-T-MWW-65SOL-359 (TRIM)		FLANGE (MBB) IN WOOD ACCENT CEILINGS	WP EXTERIOR 115 V DUPLEX G.F.C.I. WALL OUTLET IN			WGA100 SINGLE PHASE (((۹))) CELLULAR MODEM:	
L-11-EM (ALT)	AMERLUX	(HOUSING) + HDL-HP-RLD-A17-T-MWW-65SOL-359 (TRIM)	18W 3500K LED	L-11 ALTERNATE FIXTURE WITH EMERGENCY LIGHT DRIVER	WEATHERPROOF ENCLOSURE SET FLUSH WITH ADJACENT FINISHES, 18" ABOVE T.O. FND.		NUMBER INDICATES PORT COUNT	DAINTREE #CELL-MDM-VZ-1WAC OWNER'S IRRIGATION SYSTEM CONTROL PANEL	
L-11 (ALT)	USAI	RD-DL-BEVELED-PRIMARY-NCSM-35K-90CRI-1000L-WHIT E CONE-27"	15W 3500K LED	4" ROUND 15W 3500K LED LENSED DOWNLIGHT, PROVIDE 'BLACK CONE' FINISH IN WOOD ACCENT CEILINGS	(J) -(J) WALL / CEILING JUNCTION BOX WITH 4x4 COVER PLATE		TEL DATA SYSTEM TERMINAL WALL PHONE COVER PLATE	IRC WEATHERMATIC ENABLED FOR ZIGBEE WIRELESS I PROTOCOL, BY OWNER'S LANDSCAPER	
L-11-EM (ALT)	USAI	RD-DL-BEVELED-PRIMARY-NCSM-35K-90CRI-1000L-WHIT E CONE-27"-EMPK	15W 3500K LED	L-11 ALTERNATE FIXTURE WITH EMERGENCY LIGHT DRIVER	SURFACE-MOUNT JUNCTION BOX WITH DISCONNECT SWITCH FOR ADJACENT		4^2 DATA OUTLET LOCATION, WALL/SURFACE MOUNTED, 2-PORT OUTLET, PROVIDE (2) CAT 6 R-I-45 JACKS (2)	EXTERIOR OUTDOOR PHOTOCELL:	$\infty \sim 2$
L-20	BEST	EZXTEU-1-RW-EMRC	LAMP INCL.	SINGLE-FACE LED EXIT SIGN WITH 90-MIN. BATTERY			HORIZONTAL CAT6 CABLES, A 2-PORT SURFACE MOUNT BOX. & PATCH CORDS.	EX PS DAINTREE #RPL-CES/OD-24-0-10- WIRE TO WA100-PM	
L-20 (ALT)	ENCORE UNO-SERIES	UNO X SERIES (UNIVERSAL MOUNT)	LAMP INCL.	EDGE-LIT SINGLE-FACE LED EXIT SIGN WITH 90-MIN. BATTERY					
L-20-CHICAGO	SURE-LITES	CHX703 Series	LAMP INCL.	CHICAGO-APPROVED SINGLE-FACE LED EXIT SIGN WITH 90-MIN. BATTERY	S CEILING-RECESSED AUDIO SPEAKER			UNINTERRUPTABLE POWER SUPPLY:	
L-21A	LUMARK	XTOR6B-W-BZ	58W 4000K LED	LIGHTING		REFER TO ARCHITECTURAL DRAWINGS. FIELD-COC	ORDINATE FINAL DEVICE CONSTRUCTION DOCUMENTS AND	120V, 350VA MIN., PROVIDED BY G.C.	
L-21B	LUMARK	XTOR6B-W-BZ-MS-L20-CBP	58W 4000K LED	EXTERIOR WALL-MOUNT 58W 4000K LED FULL-CUTOFF FIXTURE FOR EMERGENCY LIGHTING WITH 90-MINUTE BACKUP BATTERY	NOTES:	27. ALL EMERGENCY BATTERY LIGHTING AND POSITIONS EXIT LIGHT FIXTURES SHALL BE INSTALLER	WITH MOTORIZED SHADEMANUFACTURER'S INSTALLATION.AND ADJUST ACCORDINGLY.48. ALL WORK SHALL BE PERFORMED IN	PM 3-POLE: DAINTREE #RDN-PS3037-S-N 24-POLE: DAINTREE #RDN-PS24-D	
L-22	LITHONIA	ZL1N-L24-1500LM-FST-MVOLT-35K-80CRI-WH-LBOZU	18W 3500K LED	2' 18W 3500K LED LENSED UTILITY LIGHT w/ OCCUPANCY SENSOR	EXIT LIGHTING CIRCUIT. 1.1. DEFED TO ADOLUTEOTUDAL DDAM/INCO FOD 1.1. THE FUSE HOLDER FOR THE PARKING LOT	CONTROLLED BY THE LOCAL LIGHTING 37. COMPLY W SWITCH. EXTEND BATTERY WIRING TO THE ALL ELECT	/ITH REQUIRED CLEARANCES FORACCORDANCE WITH THE LATEST EDITION OFRICAL PANELS PER THE NEC.THE NATIONAL ELECTRIC CODE (AS	OCCUPANCY SENSOR, CEILING-MOUNT, PASSIVE INFRARED,	H S ⊑ ≣
L-308	PHILIPS COLOR KINETICS	223-000004-02	6W LED (BLUE)	12" 'eW Cove QLX Powercore' RIGID BLUE 120V LED STRIP, WHERE MOUNTED ABOVE ACT-3, USE MOUNTING TRACK MODEL #120-000125-00 OR EQ. TO	INTERIOR ELECTRICAL SYSTEM DEVICE AND	LINE SIDE OF THE SWITCH AND CONNECT 38. WHERE RE FOR PROPER EMERGENCY BALLAST SYSTEM S	EQUIRED BY CODE, PROVIDE ADOPTED BY THE AUTHORITY HAVING ENSOR #DH400ACDC OR EQUAL JURISDICTION) AND ALL CODES AND	#CI-355	
				MINIMIZE LIGHT BLEEDING THROUGH TILE 12" 'TROVE' MULT (120V-220V) LED STRIP, WHERE MOUNTED ABOVE ACT-3, USE	INFORMATION ON BUILDING ENVELOPE EIXTURES AND DEVICES	OPERATION. STAND-ALC 28. ALL LOBBY AND OFFICE PENDANT FIXTURES AT EACH F	DNE IN-DUCT SMOKE DETECTORS ROOFTOP HVAC UNIT TO HVACORDINANCES OF THE AUTHORITY HAVING JURISDICTION. THE SPECIFICATION, CODES	OCCOPANCY SENSOR, CEILING-MOUNT, DUAL-TECHNOLOGY: WATTSTOPPER #RWS-DT-305	
L-308 (ALT)	ECOSENSE	L35-I-12"-06-BL-MULT-120	6W LED (BLUE)	MOUNTING TRACK MODEL #MNT-L-TRKCLIP-12 OR EQ. TO MINIMIZE LIGHT BLEEDING THROUGH TILE	10. SECURELY FASTEN EACH RECESSED GRID 10. SECURELY FASTEN EACH RECESSED GRID 10. LIGHT FIXTURE TO THE CEILING SYSTEM 10. SECURELY FASTEN EACH RECESSED GRID 11. SECURELY FASTEN 11. SECURELY 11. SECURE	AND RECESSED WALL-WASH FIXTURES CONTRAC SHALL BE CONNECTED TO A CONSTANT-ON CONDUIT A	TOR FOR INSTALLATION IN DUCT. AND STANDARDS LISTED BELOW ARE AND WIRING BY ELECTRICAL UTILIZED IN THIS PROJECT:	WALL-MOUNT SINGLE-RELAY OCCUPANCY SENSOR WITH	
L-410	VONN LIGHTING	VMC31810BL 17" SALM LED PENDANT BLACK	120V 40W LED, 3000K	17" DIAMETER, MATTE BLACK FINISH, ELV DIMMING, INSTALLED 82" A.F.F. TO	CONDUIT SYSTEMS CONFORMING TO PROJECT MANUAL SPECIFICATIONS	CIRCUIT WITH A LOCK-ON CIRCUIT BREAKER. CONTRAC COORDINATE FINAL PENDANT FIXTURE SWITCH AS	S REQUIRED BY CODE. 1. NATIONAL ELECTRICAL CODE (NFPA-70)		
I -411	BASELITE	PEQ/41.5/LBLC/LED12W/3K/DM0-10V/120/277V +	120V. 12W LED. 3000K	16" DIAMETER, MATTE BLACK, 0-10V DIMMING, INSTALLED 82" A.F.F. TO B.O.	SECTION 260531. 3. TYPE MC METAL-SHEATHED CABLES WITH LEAST TWO CORNERS OF EACH FIXTURE SHALL BE SUPPORTED INDEPENDENTLY EDOM ANY OTHER SUPPORTING SYSTEM	INDICATED IN THE ARCHITECTURAL WHERE HE	AVY WALL GALVANIZED RIGID 3. STANDARD FOR THE INSTALLATION,	S OC2 COMBINED SWITCH: WATTSTOPPER DSW-302	
			1201/ 1211/1 ED 2000/	22" DIAMETER, MATTE BLACK FINISH, O-10V DIMMING, INSTALLED 82" A.F.F. TO	INSULATED CROUNDING CONDUCTORS MAY BE SUBSTITUTED FOR CONDUIT FOR LINE- INTERIOR DRY LOCATIONS SHALL RE TVDE	29. A MAXIMUM OF 3 HOMERUNS MAY BE (EMT) MAY GROUPED TOGETHER IN ONE CONDULT AND 40 CONDULT	BE USED. PROTECTIVE SIGNALING SYSTEMS BURIED IN FLOORS ON OR BELOW (NEPA-72)	PUSH-BUTTON LINE VOLTAGE 5/10/15/30-MINUTE TIMER:	
L-413		SEEM 4-1 P ESMAI P-EL-6251 E-35K-10 LINIV L D4 TETZ M/L		B.O. FIXT.	AND LOW-VOLTAGE WIRING WHERE SKILLED LABOR AVAILABILITY PREVENTS THE USE OF NSULATED COPPER CONDUCTORS	SHARE A COMMON NEUTRAL PROVIDED THE GRADE, SE HOMERUNS ARE DIFFERENT PHASES IF ON BUILDING	ERVICE CONDUIT, AND CONDUIT A. UNDERWRITERS' LABORATORIES (UL) S. NATIONAL FI FCTRICAL MANUFACTURERS	WATTSTOPPER IS-400 STLV PUSH-BUTTON LOW VOLTAGE 5/10/15/30-MINUTE TIMER:	EBI JOB #4121000090
L-500		SEEM 4-LP, FSM4LP-FL-025LF-35K-TC-UNV-LDT-1612-WH SEEM 4-LP,			CONDUIT SYSTEMS, AND WHERE PERMITTED BY CODE. CONDUIT SYSTEMS, AND WHERE FEEDERS AND POWER WIRING NUMBER 6 AND LARGER SHALL BE TYPE THW 600 VOLT	BRANCH CIRCUITS ARE GROUPED THEY MOISTURE MUST ALL BE CONTROLLED BY THE SAME CONDUIT	SHALL BE GRS OR IMC; OTHER ASSOCIATION (NEMA) MAY BE IMC OR THINWALL (EMT). 6. AMERICAN NATIONAL STANDARDS	WATTSTOPPER TS-400-24	ISSUE DATE DESCRIPTION
		FSM4LP-FL-625LF-35K-1C-UNV-LD1-T6TZ-EM-WH 4" GRUV.			4. TYPE AC ARMORED CABLE WITH UNINSULATED GROUNDING CONDUCTORS ARE NOT PERMITTED	MULTI-POLE BREAKER PER NEC.210.4.41. FOR ELEC30. ALL POWER, DATA AND SECURITY CONDUITINFRASTRI	TRICAL REQUIREMENTS OF DATAINSTITUTE (ANSI)JCTURE EQUIPMENT AND THE7. FEDERAL SPECIFICATION (FED. SPEC.)	LEGRAND RH703PTUW	
L-500 (ALT)	AMERLUX	GRUV4-HE-GRID-A16-PL-5-35-HW-120/277-CUS-0-10V	3500K LED, INCLUDED	LINEAR LED, 4" WIDE, SET IN GRID CHANNELS, 2' MINIMUM LENGTH	ARE NOT PERMITTED. 5. NON-METALLIC SHEATHED CABLES (GENERICALLY "POMEY"), TYPES NM NIAC LOCATIONS SHALL BE THW, 600 VOLT INSULATED COPPER CONDUCTORS. NO	CONNECTIONS TO SYSTEMS FURNITUREDATA ROOPANELS SHALL BE BY THE ELECTRICALSTRUCTUF	M, REFER TO J <u>PMC RETAIL</u> 8. INSULATED POWER CABLE ENGINEERS RED CABLING DESIGN STANDARD, ASSOCIATION (IPCEA)		
L-500-EM (ALT)	AMERLUX	GRUV4-HE-GRID-A16-PL-5-35-HW-120/277-CUS-0-10V-EMB	3500K LED, INCLUDED	L-500 WITH EMERGENCY BATTERY PACK	AND NMS, ARE NOT PERMITTED. 6 ELAT OR UNDER-CARPET TYPE CABLE IS WIRE SMALLER THAN NUMBER 12 AWG SHALL BE USED FOR LIGHTING OR POWER.	CONTRACTOR.COORDINATE EXACTPOSTED TOLOCATIONS AND CONNECTION42. THE OWNE	O OVP SPOTLIGHT.9. INTERNATIONAL BUILDING CODE (IBC, ASR'S FACILITY MANAGER MUST BEAMENDED)		
PL4 & PL5	McGRAW-EDISON	(2) GLEON-SA2C-740-U-T4FT-BZ (PL4), GLEON-SA2C-740-U-SL2-BZ (PL5)	MVOLT, 4000K LED,258W MVOLT, 4000K LED, 129W	DARK SKY COMPLIANR ARE LIGHT FIXTURE WITH DIRECT ARM MOUNTS	18. REFER TO ARCHITECTURAL DRAWINGS FOR NOT PERMITTED. 18. REFER TO ARCHITECTURAL DRAWINGS FOR RECESSED-GRID LIGHT FIXTURE LAMP	REQUIREMENTS WITH OWNER'S SYSTEMS INVITED TO FURNITURE VENDOR PRIOR TO ROUGH-IN. SUBCONTI	D MECHANICAL AND ELECTRICAL 10. INSTITUTE OF ELECTRICAL AND RACTOR KICKOFF MEETINGS, AND ELECTRONIC ENGINEERS (IEEE)		
					A BUSHING OR A COUPLING INSTALLED FOR THE PURPOSE OF PROVIDING PROTECTION 19. ALL FLUORESCENT LIGHTING SHALL BE	PROVIDE FLEXIBLE CONDUIT TO PARTITION INVOLVING	MEETINGS AND WALK-THROUGHS TT. CITY OF OLATHE BUILDING CODE. MECHANICAL AND ELECTRICAL (AMENDMENTS TO THE INTERNATIONAL BUILDING CODE)		
					OF CONDUCTORS. IN NO CASE ARE CONDUIT ENDS PERMITTED TO REMAIN	31. ELECTRICAL CONTRACTOR TO INSTALL AND 43. THE GC/EC	CIS RESPONSIBLE FOR ALL 12. ADDITIONALLY, DESIGNS, WORK PRACTICES		
					OPEN. 8. ALL LOW VOLTAGE WIRING IN INACCESSIBLE 20. ALL FLEXIBLE FIXTORE CONDUCTOR SHALL CONTAIN A PROPERLY SIZED GREEN GROUND CONDUCTOR AND SHALL NOT	RELATED SYSTEM COMPONENTS WITHIN FOR TELEC	COMMUNICATIONS AND SECURITY. THE OCCUPATIONAL SAFETY AND		
					AREAS, INCLUDING WALL AND CEILING ASSEMBLIES NOT ACCESSIBLE THROUGH	RACEWAYS AS REQUIRED TO PROVIDE A IN THE CD	SET FOR ROUGH-IN		
					EASILY REMOVED CEILING TILES OR ACCESS PANELS, SHALL BE INSTALLED IN BE CONNECTED BY MEANS OF A SCREW TERMINAL	REQUIRED BY LOCAL AUTHORITIES, WIRING 44. ALL GROU	ND-LEVEL ELECTRICAL IT ENCLOSURES ARE TO BE		
					9. CONDUIT SYSTEMS INSTALLED ON THE 22. THE CONTINUITY OF ANY BRANCH CIRCUIT CONDUCTOR INCLUDING ANY IDENTIFIED	CONDUIT BY THIS ELECTRICAL SPECIFIED CONTRACTOR. REFER TO ARCHITECTURAL KEYED-ALL	WITH LOCK HASPS. PROVIDE KE PADLOCKS AT EACH		
					ROOF SHALL BE SUPPORTED AT MAXIMUM INTERVALS OF FIVE FEET WITH HARDWARE GROUNDED CONDUCTOR SHALL NOT DEPEND UPON DEVICE CONNECTIONS.	DRAWINGS FOR EXACT LOCATION OF ENCLOSUF FURNITURE PARTITIONS. 45. THE CONT	RE. RACTOR SHALL FURNISH		PRYOR & LOWENSTEIN
					SECURED TO THE BUILDING SURFACE. 10. ELECTRICAL CONTRACTOR SHALL PROVIDE 11. ELECTRICAL CONTRACTOR SHALL PROVIDE ETC WHERE THE REMOVAL OF SUCH	32. DATA AND SECURITY SYSTEMS SHALL BE RUN IN GROUNDED METALLIC CONDUIT FOR ALL S	NS AND MAINTENANCE MANUALS YSTEMS AND EQUIPMENT TO THE		PROTOTYPE VERSION 20.4
					ALL WIRING INCLUDING LOW-VOLTAGE TO OWNER-PROVIDED SIGNAGE. ALL JUNCTION DOVER FOR SIGNAGE SHALL SE PLACED TO CONTINUITY.	SYSTEMS, INCLUDING MUD RINGS AS BUILDING (REQUIRED, AND SHALL BE INSTALLED BY REPRESEN	OWNER OR DESIGNATED ITATIVE AT THE COMPLETION OF		CONTENTS
					BOXES FOR SIGNAGE SHALL BE PLACED AS REQUIRED TO INSTALL THE SIGNAGE AS INDICATED IN THE ADDIVISION OF AUXILIARY GUTTERS.	THE ELECTRICAL CONTRACTOR. CABLING, THE PROJICONNECTIONS AND COVER PLATES SHALL 46. CONTRACT	ECT. FOR SHALL PROVIDE "AS-BUILT"		
					INDICATED IN THE ARCHITECTURAL ELEVATIONS. COORDINATE WITH OWNER'S SIGNAGE VENDOR AND DEFENTION	BE BY OWNER'S CONSULTANTS, NOT IN DOCUMEN CONTRACT. REPRODUC	TATION AND HARD COPY CIBLE DRAWINGS AT THE		
					SIGNAGE VENDOR AND REFER TO MANUFACTURERS WIRING DIAGRAMS. 11 SERVICE CONDUCTORS IS STRICTLY PROHIBITED.	33. REFER TO ARCHITECTURAL DRAWINGS FOR COMPLETI ORIENTATION OF POWER, DATA AND TO THE AR	ON OF THE PROJECT AND SUBMIT RCHITECT AND THE ENGINEER.		ELECTRICAL GENERAL
					TT. SERVICE CONDUCTOR CONDUITS FROM THE METER TO THE ELECTRICAL ROOM SHALL REFENCES FOR A MINIMUM OF FOUR MICHES	SECURITY SYSTEMS JUNCTION BOXES AND AS-BUILT I MUD RINGS. CIRCUIT N	DRAWINGS SHALL INDICATE EXACT UMBERS, LOCATIONS,		NOTES
					BE ENCASED IN A MINIMUM OF FOUR INCHES CONDUCTOR IS CONNECTED TO THE (4") OF CONCRETE. GROUNDING ELECTRODE. 12 EMERGENCY LIGHTING AND EXIT SIGNS GROUNDING ELECTRODE.	34. REFER TO ARCHITECTURAL DRAWINGS FOR ELECTRICAL, DATA AND SECURITY DEVICETELECOMI DISTRIBUT	MUNICATIONS AND POWER ION SYSTEMS AS INSTALLED.		
					CIRCUIT BREAKERS SHALL BE LOCATED IN THE BOTTOM RIGHT OF THE ELECTRICAL	AND COVER PLATE COLORS. 47. THE ELECT 35. ISOLATED GROUND RECEPTACLES SHALL ALL LIGHT	IRICAL CONTRACTOR SHALL TEST ING CONTROL DEVICES AND THE		02/04/2022
					PANEL. 13. ALL WIRING FOR THE PURPOSE OF OF TIME SWITCHES AND PHOTOCELLS. REFER TO SIGNAGE CONTACTOR AND TIME	BE ORANGE. LIGHTING (36. REFER TO ARCHITECTURAL DRAWINGS FOR THAT CON	CONTROL SYSTEM TO ENSURE TROL HARDWARE AND SOFTWARE		SHEET
					EMERGENCY SYSTEMS SHALL BE INSTALLED IN A SEPARATE CONDUIT SYSTEM	ADDITIONAL DETAILS OF MOTORIZED SHADE ARE CALIB COMPONENTS. PROVIDE CONDUIT SYSTEM PROGRAM	RATED, ADJUSTED, MED AND IN PROPER WORKING		
					INDEPENDENT OF OTHER SYSTEMS.	AND FINAL CONNECTIONS. CONDITION	N IN ACCORDANCE WITH THE		

- EMERGENCY SYSTEMS SHALL BE INSTALLED IN A SEPARATE CONDUIT SYSTEM INDEPENDENT OF OTHER SYSTEMS.
- INCLUDE MANUAL OVERRIDE SWITCHES IN THE LANE STATUS CONTROL STATION.

- COMPONENTS. PROVIDE CONDUIT SYSTEM AND FINAL CONNECTIONS.



LIG	ITING CONTROL NOTES
LC-1	EXT. BUILDING AND SITE LIGHTING CONTROLLED BY DAINTREE WA100-PM INSTALLED AT SWITCH LEG OR CIRCUIT HEAD. IF TWO-POLE, PROVIDE AUX. RELAY TO CONTROL SECOND LINE.
LC-3	PROVIDE MULTIPLE WIRELESS ADAPTERS WHERE CIRCUIT CURRENT OR NUMBER OF FIXTURES EXCEED THE MAXIMUM PERMITTED FOR A SINGLE ADAPTER. DO NOT COMBINE MULTIPLE FIXTURE TYPES ON A SINGLE ADAPTER (TYPICAL).
LC-13	FOR EXTERIOR BUILDING-MOUNT LIGHT FIXTURE CONTROL, REFER TO LIGHTING AND POWER CONTROL PLAN, SHEET E2

ELECTRICAL PLAN NOTES

EL-1	PHOTOCELL HIGH ON WALL- REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION- MOUNT AWAY FROM LIGHT SOURCES AS REQD SLEEVE WALL AND SEAL WATER TIGHT
EL-2	INTERIOR SERVICE AND DISTRIBUTION PANELS
EL-3	TRANSFER SWITCH ENCLOSURE
EL-4	INLINE METER SOCKET. COORDINATE REQUIREMENTS WITH LOCAL UTILITY- INCLUDE ALL COSTS IN BASE BID.
EL-5	TELE-DATA SERVICE ENCLOSURES- ROUTE (2) 2" CONDUITS WITH PULL STRINGS TO DATA ROOM. COORDINATE FINAL STUB-UP LOCATIONS WITH TELEPHONE PROVIDER PRIOR TO INSTALLATION.
EL-6	UNDERGROUND ELECTRIC SERVICE CONDUITS AND FEEDERS- COORDINATE WITH UTILITY COMPANY FOR EXACT ROUTING AND STUB-UP LOCATION. STAKE CONDUIT END LOCATION FOR UTILITY COMPANY.
EL-7	PROPOSED LOCATION OF 3-PHASE GROUND-MOUNTED POWER TRANSFORMER BY UTILITY COMPANY- COORDINATE FINAL LOCATION, PRIMARY CONDUIT AND FEEDER AND OTHER REQUIREMENTS WITH UTILITY COMPANY- INCLUDE ALL COSTS IN BASE BID
EL-8	(2) 1" CONDUITS WITH PULL STRING FROM PP1 AND DATA ROOM TO ATM FOR POWER AND DATA CONNECTIONS.
EL-9	UNDERGROUND TELEPHONE SERVICE CONDUITS (2 EMPTY 3" WITH PULL STRING). EXTEND TO TELEPHONE SERVICE DEMARCATION POINT. COORDINATE THE FINAL LOCATION AND ALL REQUIREMENTS WITH THE TELEPHONE SERVICE COMPANY.
EL-13	FUTURE NEMA 3R PHOTOVOLTAIC EQUIPMENT CONNECTION ENCLOSURES
EL-16	UNDER-SLAB CONDUIT ROUTING AND TERMINATIONS AS REQUIRED- REFER TO ARCHITECTURAL DRAWINGS
EL-20	IRRIGATION SYSTEM POWER STUB.

	SCHED	JLE	OF	= N	EV	VE	BRA	NC	H C	IR	CU	IIT	PA	N	EL PP1	
MAIN: SPEC MOUN	400 AMP MAIN LUGS ON SQUARE D TYPE "NQOD" ITING: FLUSH	OR APPR	OVED	EQUI	VALEN	1 <mark>T</mark>						VOLTA FED F AIC S	AGE: ROM: YMM:	208/ 400 22,0	120V, 3-PHASE, 4 WIRE OCPD 00	
LOAD	LOAD DESCRIPTION	B	RANCH	I CIRCUIT DATA PHASE PHASE PHASE BRANCH CIRCUIT DATA LOAD I				LOAD DESCRIPTION	LOAD							
VA		WRE	GND.	COND.	TRIP	CKT.	VA	VA	VA	OKT.	TRIP	COND.	GND.	WIRE		VA
3960						1	7920			2						3960
3960	RTU-1	3#6	1#10	3/4"	45/3	3		7920		4	45/3	3/4"	1#10	3#6	RTU-2	3960
3960						5			7920	6	1					3960
1320	0111/111	2#10	1#10	2/4"	20/2	7	5280			8						3960
1320	00-1/10-1	2#10	1#10	3/4	30/2	9		5280		10	45/3	3/4"	1#10	3#6	RTU-3	3960
400	SAFE	2#12	1#12	1/2"	20	11			4360	12	1					3960
400	RECEPTS ROOF	2#12	1#12	1/2"	20	13	1480			14	20	1/2"	1#12	2#12	0112/1112	1080
600	ATM - DRIVE UP	2#10	1#10	3/4"	20	15		1680	•	16	20	1/2	1#12	2#12	00-2/10-2	1080
600	ATM - VESTIBULE	2#12	1#12	1/2"	20	17			1000	18	20	1/2"	1#12	2#12	TOWEL DISPENSER	400
200	IRRIGATION CONTROLLER*	2#12	1#12	1/2"	20	19	200			20	20				SPARE	0
0	SPARE				20	21		3000		22	20/2	2//	1#10	2#10	EWH	3000
0	SPARE				20	23			3000	24	30/2	3/4	1#10	2#10	EVVH	3000
100						25	100			26	20				SPARE	0
100	TVSS				30/3	27		100		28	20				SPARE	0
100						29			100	30	20				SPARE	0
7920						31	12078		L	32						4158
9020	PANEL PP2	4#3	1#8	1-1/4"	100/3	33		13318		34	100/3	1-1/4"	1#8	4#3	PANEL PP3	4298
7400						35			10184	36						2784
0	SPACE					37	0		L	38	-				SPACE	0
0	SPACE					39		0		40					SPACE	0
0	SPACE				Ú.	41			0	42					SPACE	0
							27.06	31.3	26.56	KVA	PER	PHAS	Ε			
NOT	TES:						225.5	260.8	221.4	AMP	S PEF	R PHA	SE			
	* LOCKED							84.9		TOT	AL KV	A				
								236.0		тот	AL AM	PS				









LIGHTING PLAN

LC-1	INSTALLED AT SWITCH LEG OR CIRCUIT HEAD. IF TWO-POLE, PROVIDE AUX. RELAY TO CONTROL SECOND LINE.	
LC-3	PROVIDE MULTIPLE WIRELESS ADAPTERS WHERE CIRCUIT CURRENT OR NUMBER OF FIXTURES EXCEED THE MAXIMUM PERMITTED FOR A SINGLE ADAPTER. DO NOT COMBINE MULTIPLE FIXTURE TYPES ON A SINGLE ADAPTER.	
LC-4	INSTALL ONE FLEXIBLE CT PER PHASE OF MAINS POWER- WIRE EACH TO POWER METER LOCATED IN DATA ROOM.	
LC-5	REFER TO 3/E2 EXHAUST FAN CONTROL DIAGRAM FOR DUAL RELAY OCC. SENSOR WIRING. WIRE ONE RELAY FOR ROOM LIGHTING CONTROL. WIRE SECOND RELAY IN PARALLEL WITH RESTROOM AND JANITOR CLOSET OCC. SENSORS AND LOUNGE TIMER SWITCH FOR EXHAUST FAN CONTROL.	sultir
LC-6	FIXTURES WITH INTEGRAL OCC. SENSORS DO NOT REQUIRE SEPATARATE CONTROLS.	2
LC-8	PAIR LOW-VOLTAGE CEILING-MOUNTED ACCENT LIGHT FIXTURES IN FLUSH FIXTURE BOX- WIRE TO REMOTE DRIVER AND WAPM CONCEALED ABOVE CEILING	
LC-9	PHOTOSENSOR AND AUTO. DIMMING CONTROL OF LOBBY GENERAL LIGHT FIXT. (ZONE 10) AND VESTIBULE LIGHT FIXT. (ZONE 6), AND OTHER ZONES AS SPECIFIED BY CODE, TO BE PROVIDED ONLY WHEN DAYLIGHT HARVESTING OR SIMILAR AUTO. DIMMING CONTROL REQUIREMENTS ARE ENFORCED BY AN AUTHORITY HAVING JURISDICTION. WHERE NOT REQUIRED, OMIT PHOTOSENSORS, AUTO. DIMMING, AND BMS CONTROL, AND PROVIDE LINE-VOLTAGE MANUAL SWITCH AT SWITCH BANK AT/NEAR TELLER LINE.	BUEPARED BY:
LC-10	DRIVE-UP LANE STATUS CONTROL SWITCHES; NOT WITHIN B.M.S. SCOPE	* P
LC-11	SIGNAGE ELECTRICAL CONNECTION- PROVIDE J-BOX ABOVE CEILING WITH MULTIPLE FLEXIBLE CONDUIT TERMINATIONS IN WALL BELOW FOR OWNER'S SIGN- REFER TO SIGNAGE VENDOR'S SHOP DWGS. FOR EXACT TERMINATION LOCATIONS. CIRCUIT TO SPDT WALL SWITCH IN MANUAL TRANSACTIONS AREA.	ROFEST
LC-12	UNSWITCHED EXTERIOR EGRESS LIGHT FIXTURE WITH PHOTOSENSOR AND STANDBY BATTERY POWER	
LC-14	REFER TO SHEET E6, FIGURE 7 FOR WIRING DETAIL- WIRE TO NEAREST WA100-PM- MAY BE AT ELECTRICAL PANEL	
LC-15	PHOTOSENSOR AND AUTO. DIMMING CONTROL OF OFFICE AND CONFERENCE GENERAL LIGHTING (ZONES 12A/B/C) TO BE PROVIDED ONLY WHEN DAYLIGHT HARVESTING OR SIMILAR AUTO. DIMMING CONTROL REQUIREMENTS ARE ENFORCED BY AN AUTHORITY HAVING JURISDICTION. WHERE NOT REQUIRED, OMIT PHOTOSENSORS AND AUTO. DIMMING.	ROAD &
LC-16	PROVIDE LEAK DETECTOR AT FLOOR AT ALL WATER HEATERS, JANITOR SINKS, AND DATA ROOMS	A
	I REMOTE EMERGENCY BATTERY PACK AS	




PROGRAMMING. THE KEY OVERRIDE SWITCH INCLUDES A CONSTRUCTION CORE, TO BE RE-KEYED WHEN THE BRANCH IS TURNED OVER

- WHEN IN "NORMAL" POSITION, THE GREEN LED IS ILLUMINATED, AND THE SYSTEM FOLLOWS THE PROGRAMMED OPERATION, FOLLOWING THE BUSINESS HOURS SCHEDULE.
- WHEN IN "DISABLED" POSITION, THE RED LED IS ILLUMINATED, THE SYSTEM PROGRAM IS BYPASSED, THE ELECTRIC STRIKE LOCKS THE DOOR, AND THE AUTOMATIC DOOR OPERATOR PUSH PLATES ARE DISABLED.









ELE	CTRICAL PLAN NOTES
EL-9	LIGHTED SIGN BY OWNER'S SIGNAGE VENDOR (N.I.C.)- COORDINATE W/ VENDOR TO PROVIDE REQUIRED POWER AND CONTROL CIRCUITS- FINAL CONNECTIONS BY OWNER'S SIGNAGE VENDOR.
EL-10	SHEET METAL ENCLOSURE BY OWNER'S SIGNAGE VENDOR (N.I.C.).
EL-11	NEMA 3R EXTERIOR JUNCTION BOX WITH DISCONNECT SWITCH SURFACE-MOUNTED TO BACKSIDE OF PARAPET WALL- COORDINATE FINAL LOCATION WITH OWNER'S SIGNAGE VENDOR.
EL-12	INTERIOR JUNCTION BOX WITH DISCONNECT SURFACE-MOUNTED TO INSIDE FACE OF EXTERIOR WALL ABOVE CEILING- COORDINATE FINAL LOCATION WITH OWNER'S SIGNAGE VENDOR.
EL-17	EXTERIOR EQUIPMENT-MOUNTED DISCONNECT SWITCH- COORDINATE FINAL LOCATION AND WIRING REQUIREMENTS WITH MECHANICAL UNIT INSTALLER
EL-18	IN-DUCT SMOKE DETECTOR- COORDINATE WITH MECHANICAL UNIT INSTALLER.
EL-21	PREFERRED FUTURE PHOTOVOLTAIC EQUIPMENT LOCATION- REFER TO ARCHITECTURAL ROOF PLAN.
EL-22	FUTURE PHOTOVOLTAIC PANEL LOCATION- REFER TO ARCHITECTURAL ROOF PLAN.
EL-23	CELLULAR TELECOM ANTENNA MAST: GROUNDED 1" MIN. RIGID METALLIC CONDUIT WITH SERVICE MAST HEAD OR SIMILAR WEATHER-TIGHT CAP, ROUTED TO DATA ROOM CEILING FOR FUTURE CABLE.
EL-24	PREFERRED FUTURE CELLULAR TELECOM ANTENNA BY OWNER'S VENDOR- G.C. TO COORDINATE LOCATION TO ELIMINATE VISIBILITY OF ANTENNA FROM WITHIN THE PROPERTY LINES.

	EXT. BUILDING AND SITE LIGHTING
	CONTROLLED BY DAINTREE WA100-PM
LC-1	INSTALLED AT SWITCH LEG OR CIRCUIT HEAD.
	IF TWO-POLE, PROVIDE AUX. RELAY TO
	CONTROL SECOND LINE.

ROOF-MOUNTED UP-BLAST CENTRIFUGAL FAN-• GREENHECK G-075HP-VG/6/G-X OR SIMILAR • APPROX. 1/6HP, 1300RPM, 309CFM • WITH BACKDRAFT DAMPER



BMS LIGHTING AND POWER CONTROL AND SENSOR

- 1. COORDINATION WITH THE BMS VENDOR IS REQUIRED. THE ARCHITECT / ENGINEER OF RECORD SHALL ADVISE THE VENDOR 30 DAYS IN ADVANCE OF THE BID DATE THAT PROJECT DESIGN HAS COMMENCED. SUBMITTAL FOR VENDOR REVIEW AND COORDINATION MUST BE EXECUTED WITH ADEQUATE TIME TO ALLOW COORDINATION AND ADJUSTMENTS BETWEEN THE ARCHITECT, MECHANICAL ENGINEER, AND ELECTRICAL ENGINEER
- BEFORE BID. 2. WHERE REQUIRED BY AUTHORITIES HAVING JURISDICTION. PROVIDE CONTROL DEVICES AND CIRCUITING AS REQUIRED TO COMPLY WITH ENERGY EFFICIENCY CODE(S) ONLY WHERE
- APPLICABLE. 3. DESIGNER SHALL CLEARLY INDICATE IN CONSTRUCTION DOCUMENTS THAT THE WIRELESS DEVICE CONTROLS REPLACE TYPICAL HARDWIRED SWITCHING AND WIRING REQUIREMENTS. AND
- THAT THE CONDUIT SYSTEM IS NOT REQUIRED FOR THE CONTROL DEVICES ASSOCIATED WITH THE BMS EXCEPT AS NOTED. ZONE Z5 FOR EXTERIOR-FACING INTERIOR SIGNAGE NOT PROVIDED WITH THIS PLAN. BUT WOULD BE REQUIRED FOR WALL-WASH RECESSED CANS AIMED AT SIGNAGE, ILLUMINATED LETTER SETS,
- 5. EMERGENCY LIGHT FIXTURES WITH BATTERY PACKS ARE NOT INDICATED FOR SEPARATE ZONE CONTROL, BUT SHALL BE PROVIDED WITH CONTROL DEVICES AS REQUIRED TO SYNCHRONIZE FIXTURE SWITCHING WITH OTHER FIXTURES WITHIN
- THE SPECIFIED ZONE. 6. FIXTURES WITH INTEGRAL OCCUPANCY SENSORS (UNDERCABINET, ETC.) DO NOT REQUIRE ZONE CONTROL SWITCHING
- EXIT LIGHT FIXTURES ARE EXCLUDED FROM BMS ZONE CONTROL. 8. ROOF CENTRIFUGAL EXHAUST FAN IS NOT CONTROLLED BY BMS. REFER TO DETAIL 3/E2, DESIGN-INTENT EXHAUST FAN CONTROL DIAGRAM, FOR HARDWIRED LINE-VOLTAGE CONTROL REQUIREMENTS
- 9. LARGE FIXTURE GROUPS TAGGED WITH A COMMON ZONE, SUCH AS THE SITE AREA LIGHT FIXTURES OR LOBBY TROFFERS, ARE TO BE CONTROLLED SIMULTANEOUSLY. CONTROL SUB-ZONES ARE TO BE PROVIDED AND CONTROLLED BY RELAY CIRCUITS AS DETERMINED BY THE MAXIMUM NUMBER OF FIXTURES PERMITTED ON A SINGLE CIRCUIT. 10. REFER TO SHEET M1 FOR MECHANICAL EQUIPMENT REPORTING
- AND CONTROL DEVICES. 11. LIGHTING AND SIGNAGE ZONE TIMER / PHOTO CELL PROGRAMS SHALL BE SET PER THE BMS LIGHTING CONTROL SCHEDULE BY THE CHASE FACILITY MANAGER THROUGH THE REMOTE
- CONTROLSCOPE / ALLSITES INTERFACE. 12. MULTI-POLE CONTACTORS AND RELAYS SHALL BE PROVIDED AS REQUIRED BY THE ELECTRICIAN TO EXECUTE THE DESIGN-INTENT
- CONTROL CIRCUITING INDICATED IN PLAN. 13. CONTROLLED OUTLETS TO BE PROVIDED ONLY TO THE MINIMUM EXTENT REQUIRED BY APPLICABLE ENERGY CODES. CONTROL SHALL BE PROVIDED BY NEAREST OCCUPANCY SENSOR. OFFICES, AND SIMILAR SPACES SHALL RECEIVE A SINGLE CONTROLLED DUPLEX OUTLET OVER THE DESK. CONFERENCE ROOMS SHALL RECEIVE A SINGLE CONTROLLED DUPLEX WALL OUTLET. ALL LOBBY AND PRINT ROOM CONVENIENCE RECEPTACLES (NOT ADJACENT TO EQUIPMENT) SHALL BE SPLIT-WIRED TO THE NEAREST OCCUPANCY SENSOR.
- 14. PROVIDE ONE LEAK DETECTOR IN EACH ROOM WITH A WATER HEATER, SUMP/EJECTOR PUMP, OR (SOLENOID VALVE AND/OR CONDENSATE PUMP IF REQUIRED). 15. PROVIDE ONE TEMPERATURE SENSOR IN EACH ROOM WITH ATMS
- OR SIMILAR TRANSACTION EQUIPMENT, EXCEPT THE LOBBY OR ANY SIMILAR OPEN SPACE. MECHANICAL PLAN SUPERCEDES. 16. CONTROL AND SENSOR DEVICES MUST NOT BE PLACED ON ANY WALL DESIGNATED FOR AN ACCENT FINISH. DEVICES ARE TO BE
- PLACED AS AS NEAR THE ENDS OF WALLS AS POSSIBLE, SO AS NOT O INTERFERE WITH MARKETING MATERIAL POSITIONING. 17. LANDSCAPE IRRIGATION CONTROLLER SHALL BE COMPATIBLE WITH THE BMS SYSTEM, AND BE PROVIDED WITH WI-FI CONNECTIVITY. COORDINATE CONTROLLER SPECIFICATION WITH DAINTREE AND
- LANDSCAPE IRRIGATION SYSTEM VENDOR. 18. THE AoR/EoR SUBMITTAL TO THE BMS VENDOR SHALL BE SUBJECT TO ADJUSTMENT TO COMPLY WITH LOCAL CODE. WHERE DIMMING, CEILING-MOUNTED SWITCH-ON / VACANCY-OFF, OR PLUG LOAD CONTROLS ARE REQUIRED, DAINTREE CONTROLS SHALL BE USED. WHERE WALL-MOUNTED SWITCH-ON / VACANCY-OFF CONTROLS ARE REQUIRED, LINE VOLTAGE CONTROLS MAY BE USED WHEN APPLICABLE.
- 19. SUBSTITUTIONS FOR THE SPECIFIED CONTROLS BY THE AoR, EoR OR G.C. ARE NOT PERMITTED
- 20. ALL CONCEALED SENSORS, ADAPTERS, AND OTHER COMPONENTS SHALL BE PLACED ABOVE ACCESSIBILIE CEILING PANELS.
- 21. ANY DESIGN-BUILD POSITIONING OF BMS DEVICES THAT DEVIATES FROM THE LOCATION ON THE ENGINEERING OR INSTALLATION
- DRAWINGS MUST BE DOCUMENTED BY THE ELECTRICIAN AND PROVIDED TO THE AOR FOR INCLUSION IN THE AS-BUILT DRAWINGS 22. BATTERY-POWERED DEVICES ARE NOT PERMITTED TO BE INSTALLED IN CONCEALED LOCATIONS, INCLUDING ABOVE
- ACCESSIBLE CEILINGS. DEVICESIN CEILINGS OR OTHER CONCEALED LOCATIONS MUST BE HARDWIRED. 23. ALL DEVICES CONCEALED ABOVE CEILINGS MUST BE POSITIONED

BUILDING ENERGY MANAGEMENT SYSTEM (BMS) GENERAL INSTALLATION NOTES

SO AS TO BE VISIBLE FROM BELOW.

- 1. INSTALLER IS RESPONSIBLE FOR THE FINAL LOCATION OF ALL SENSORS, SWITCHES AND CONTROLLERS AND TO CONFORM WITH THE MANUFACTURER'S RECOMMENDATIONS AND MEET THE FUNCTIONAL REQUIREMENTS OF THE SYSTEM.
- 2. CONTROLSCOPE UTILIZES DISTRIBUTED CONTROL FOR ON/OFF AND DIM STATE. EXISTING RELAY PANELS AND LINE-SIDE SWITCHES MUST BE OVERRIDDEN OR REMOVED. ALL WIRELESS ADAPTER MUST BE
- PROVIDED WITH UNINTERRUPTED/UNSWITCHED POWER. 3. DURING INSTALLATION THE LAST 4 DIGITS OF THE IEEE ADDRESS FOR EACH WIRELESS COMPONENT MUST BE RECORDED ON THE SHOP DRAWING SET CORRESPONDING TO THE LOCATION OF THE
- COMPONENT 4. DURING WIRELESS ADAPTER INSTALLATION FOLLOW THESE STEPS AS DEFINED IN THE DEVICE INSTALLATION GUIDE IN THE FOLLOWING ORDER.
- 4.1. CONFIRM WIRELESS ADAPTER DIP SWITCHES ARE SET CORRECTLY.
- 4.2. RESET ADAPTER (ALL ADAPTERS)

THE DOORWAY.

- 4.3 PERFORM PROPER TEST SUITE 5. INSTALLER MUST BECOME FAMILIAR WITH THE PUBLISHED INSTALLATION GUIDES FOR THE PRODUCTS IN THE PROJECT SCOPE. DAINTREE INSTALLATION GUIDES CAN BE FOUND AT: https://products.currentbyge.com/control-systems/daintree
- enterprise-wireless-controls. 6. DO NOT INSTALL BATTERIES IN WIRELESS DEVICES PRIOR TO APPROVAL FROM GE'S COMMISSIONING LIASSON. INSTALLING BATTERIES MORE THAN 10 DAYS PRIOR TO COMMISSIONING CAN
- RESULT IN PREMATURE BATTERY FAILURE 7 TO AVOID FALSE TRIGGERS FROM OCCUPANTS WALKING PAST OPEN DOORS, CARE SHOULD BE TAKEN TO PLACE SENSORS WITH NO OR MINIMAL VIEWING ANGLE THROUGH DOORWAY. IF THE DISTANCE BETWEEN THE DOORWAY AND THE CENTER OF THE ROOM IS LESS

THAN 12 FEET. IT IS ADVISABLE TO MOVE THE SENSOR TOWARD THE

CORNER OF THE ROOM TO REDUCE THE VIEWING ANGLE THROUGH

DAINTREE MECHANICAL CONTROL

- 1. ALL WIRELESS ADAPTERS MUST BE PROVIDED WITH UNINTERRUPTED/UNSWITCHED POWER. WSA10 WIRELESS SENSOR ADAPTERS REQUIRE 24V POWER.
- 2. DURING INSTALLATION THE LAST 4 DIGITS OF THE IEEE ADDRESS FOR EACH WIRELESS COMPONENT MUST BE RECORDED ON THE SHOP DRAWING SET CORRESPONDING TO THE LOCATION OF THE COMPONENT.
- 3. FOR ANY SENSORS ATTACHED TO A WIRELESS SENSOR ADAPTER (WSA10) THE LAST 4 DIGITS OF THE IEEE ADDRESS FOR THE RESPECTIVE WSA10 MUST BE RECORDED. THE SPECIFIC WSA10 PORT
- MUST ALSO BE RECORDED PER SENSOR. 4. DURING WIRELESS ADAPTER INSTALLATION FOLLOW THESE STEPS AS DEFINED IN THE DEVICE
- INSTALLATION GUIDE IN THE FOLLOWING ORDER. 4.1. CONFIRM WIRELESS ADAPTER DIP SWITCHES ARE SET CORRECTLY.
- 4.2. RESET ADAPTER (ALL ADAPTERS)
- 4.3. PERFORM PROPER TEST SUITE. 5. INSTALLER MUST BECOME FAMILIAR WITH THE PUBLISHED INSTALLATION GUIDES FOR THE PRODUCTS IN THE PROJECT SCOPE. DAINTREE INSTALLATION GUIDES CAN BE FOUND AT https://products.currentbyge.com/control-systems/
- daintree-enterprise-wireless-controls. 6. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR PROCUREMENT AND INSTALL OF DAINTREE AND RELATED COMPONENTS PERTAINING TO IT/DATA,
- LIGHTING, POWER AND HVAC. 7. THE IoT CONTROLLER AND ASSOCIATED BACNET HARDWARE IS REQUIRED TO PROVIDE CONTROL FUNCTIONS TO VAV, VVT, OR SIMILAR MULTI-ZONED HVAC SYSTEMS. BACNET HARDWARE WILL BE INCLUDED IN THE BMS EQUIPMENT ORDER TO GE-CURRENT/DAINTREE, AND INSTALLED AND PHYSICALLY CONNECTED TO THE BMS UNDER THE GENERAL CONTRACT. INSTALLERS MAY CONTACT THEIR SYSTEM
- INTEGRATOR FOR INSTALLATION ASSISTANCE 8. BIDDERS ARE TO INCLUDE BACNET HARDWARE & INSTALLATION IN THEIR BIDS.
- 8.1. THE INITIAL PROGRAMMING AND COMMISSIONING OF THE CARRIER I-VUE (OR SIMILAR TRANE OR OTHER MANUFACTURER'S SYSTEM) WILL BE PERFORMED BY THE GC'S HVAC TECHNICIAN.
- 8.2. POINT INTEGRATION SERVICE FOR THE BACNET HARDWARE WILL BE PERFORMED BY GE-CURRENT FOLLOWING HVAC EQUIPMENT AND CONTROLS COMMISSIONING. THIS MAY REQUIRE AN ON-SITE VISIT BY GE-CURRENT.

CONTROLSCOPE COMMISSIONING

- CONTRACTOR IS RESPONSIBLE FOR CORRECT WIRING, TESTING, AND DOCUMENTATION OF ALL IEEE DEVICE ADDRESSES IN A FORMAT REQUIRED
- BY THE CONTROLS SUPPLIER. 2. CONTRACTOR IS RESPONSIBLE FOR COORDINATING INSTALLATION AND COMMISSIONING EFFORTS WITH THE CONTROLS PROVIDER TO SATISFY THE CONSTRUCTION
- TIMELINE. 3. CONTRACTOR IS RESPONSIBLE FOR PROVIDING FIELD LABOR ASSISTANCE TO FACILITATE THE COMMISSIONING EFFORT. INCLUDING BUT NOT LIMITED TO REPAIRING INCORRECT WIRING, LOCATING DEVICES WHERE THE ADDRESSES WERE NOT DOCUMENTED OR NOT LOCATED PROPERLY, AND RESETTING DEVICES.

OR EMERGENCY TRANSFER SWITCH -----



	LIGHT	ING ZONE C	ONTROL SC	HEDULE			
70115				CONT	ROL FUNCTION		DEMARKO
		ON	OFF	TYPE	OVER-RIDE	OVER-RIDE LOCATION	
1	DRIVE-UP CANOPY	PHOTOCELL	SCHEDULE	DAINTREE	SOFTWARE, WALL SWITCH	AT OR NEAR TELLER LINE	4
2A, 2B	BUILDING AND POLE-MOUNT EXTERIOR AREA FIXTURES (SUB-ZONES AS REQUIRED)	PHOTOCELL	SCHEDULE	DAINTREE	SOFTWARE, WALL SWITCH	AT OR NEAR TELLER LINE	4
3A, 3B	EXTERIOR ENTRANCE DOWNLIGHTS AND SITE MONUMENT / PYLON SIGNS	PHOTOCELL	PHOTOCELL	DAINTREE	SOFTWARE, WALL SWITCH	AT OR NEAR TELLER LINE	4
4	EXTERIOR BUILDING SIGNAGE AND CANOPY SIGNAGE	PHOTOCELL	SCHEDULE	DAINTREE	SOFTWARE, WALL SWITCH	AT OR NEAR TELLER LINE	4
5A, 5B	EXTERIOR DECORATIVE AND WALL-WASH FIXTURES AND EXTERIOR-FACING INTERIOR SIGNAGE	SCHEDULE	SCHEDULE	DAINTREE	SOFTWARE, WALL SWITCH	AT OR NEAR TELLER LINE	4
6	VESTIBULE (ALWAYS ON)	NA	NA	DAINTREE	SOFTWARE, WALL SWITCH	AT OR NEAR TELLER LINE	1, 5
7	CONFERENCE ROOM ACCENT	SCHEDULE	SCHEDULE	DAINTREE	SOFTWARE, WALL SWITCH	IN ROOM	
8	CONFERENCE ROOM PENDANT(S) (ALWAYS ON, WITH IN-ROOM OVER-RIDE)	SCHEDULE 50%	SCHEDULE 10%	DAINTREE	SOFTWARE, WALL DIMMER	IN ROOM	2
9	PRIVATE OFFICE (PCS/CCS) AND BOOTH DESK PENDANTS (ALWAYS ON)	SCHEDULE 50%	SCHEDULE 10%	DAINTREE	SOFTWARE, WALL DIMMER	AT OR NEAR TELLER LINE	2
10A, 10B	LOBBY GENERAL (SUB-ZONES AS REQUIRED)	SCHEDULE	SCHEDULE	DAINTREE	SOFTWARE, WALL SWITCH	AT OR NEAR TELLER LINE	1
11A, 11B	VESTIBULE AND LOBBY ACCENT- COVE STRIPS, ETC. (ALWAYS ON)	NA	NA	DAINTREE	SOFTWARE, WALL DIMMER	AT OR NEAR TELLER LINE	
12A, 12B	OFFICE AND CONFERENCE GENERAL	NA	NA	DAINTREE	SOFTWARE, WALL DIMMER	IN ROOM	1
13A, 13B	BOOTH GENERAL	OCCUPANCY	VACANCY	LINE VOLTAGE	NONE	NA	1
14	PRINT / FILE	OCCUPANCY	VACANCY	LINE VOLTAGE	NONE	NA	3
15	SDB CHEST AND VIEWING ROOMS AND SDB VAULTS	OCCUPANCY	VACANCY	LINE VOLTAGE	NONE	NA	
16A, 16B	BACK-OF-HOUSE WORK AREAS (LAO, CASH, AT, ATM, ETC.)	OCCUPANCY	VACANCY	LINE VOLTAGE	NONE	NA	3
17	MANUAL TRANSACTIONS (TELLER LINE)	OCCUPANCY	VACANCY	LINE VOLTAGE	NONE	NA	3
18	SERVICE HALLWAYS	OCCUPANCY	VACANCY	LINE VOLTAGE	NONE	NA	
19A, 19B	RESTROOMS	OCCUPANCY	VACANCY	LINE VOLTAGE	NONE	NA	
20	LOUNGE	OCCUPANCY	VACANCY	LINE VOLTAGE	NONE	NA	3
21A, 21B	UTILITY EXCEPT DATA (JANITOR, LADDER, ELEC., PLUMBING, SPRINKLER, ETC)	OCCUPANCY	VACANCY	LINE VOLTAGE	NONE	NA	6
22	DATA	MANUAL	MANUAL	LINE VOLTAGE	NONE	NA	
23	RESTROOM / JANITOR / LOUNGE EXHAUST SYSTEM	OCCUPANCY	VACANCY	LINE VOLTAGE	NONE	NA	7
REMARKS:			•			•	·
1	REFER TOLIGHTING CONTROL NOTE LC-15						
2	PROVIDE WIRELESS MANUAL DIMMER PROGRAMMED FOR 50% DIMMING DURI	NG BRANCH HOUF	S AND 10% DIMMIN	IG AFTER BRANCH	I HOURS.		
3	AoR TO ADJUST CONTROL SPECIFICATION AS REQUIRED TO MEET CODES EN VOLTAGE CONTROLS ARE PREFERRED.	FORCED BY AUTHO	DRITY HAVING JUR	ISDICTION. WHERI	E SIMPLE OCCUPANCY/VACANC	Y SENSOR CONTROL IS REQUIR	ED, LINE





	Project Ir	formation					
	Energy Code	e: 2018 IEC	C SE				
	Project Tue. Project Type Permit Date:	New Cons	struction				
	Permit No.	TBD					
	Constructior 908 NW F	n Site: Owner PRYOR ROAD JPM (/Agent: CHASE	Designe Yao Ag	r/Contractor: gbeve		
	LEE'S SUN	MMIT, MO 64081 Al Efficiency Package(s)		EBI CO 21 B S BURLI	ONSULTING STREET NGTON, MA 018	303	
Note of the set of the	Credits: 1.0	Required 1.0 Proposed					
Anse Ortgory By Area or Compared for the standard of t	Reduced Allowed I	Lighting Power, 1.0 credit nterior Lighting Power					
Office 320 0.71 2154 Proposed Interior Lighting Power A A C C Fiture C <t< td=""><td></td><td>A Area Category</td><td></td><td>B Floor Area</td><td>C Allowed</td><td>Allo</td><td>D wed Wat</td></t<>		A Area Category		B Floor Area	C Allowed	Allo	D wed Wat
Total Allowed Watter A B C C D C C D C C D C C D C C D C C D C C D C C D C C D C C D C C D C C D C	1-Office			(ft2) 3030	Watts / ft2 0.71	(B X C) 2154
A B Complexity D Exture Future	Proposed	Interior Lighting Power			Total Allowed Wa	atts =	2154
Section Register for the Lighting Compliance Statement Compliance REFER TO THE LIGHTING PLAN ON SHEET Section Register for the section of the section	-	A Fixture ID : Description / Lamp / Watt	tage Per Lamp / Bal	B ast Lamp	C s/#of	D Fixture	E (C X D
Lab 5: 10: 2002 UNLOW LED Committee 1 32 3 4	1-Office			Fixtur	re Fixtures	Watt.	
ED 4.143 PENANT One: 1 2 27 92 ED 5.1.6.5UPRANT One: 1 2 27 92 ED 7.1.4.91 PENANT: One: 1 2 27 93 ED 8.6.5UPRANT: One: 1 2 97 93 ED 9.1.4.91 PENANT: One: 1 2 97 93 ED 9.1.4.91 PENANT: One: 1 2 97 93 ED 9.1.4.91 PENANT: One: 1 2 97 93 ED 9.1.9008.LED STRP. Ofer: 1 12 97 93 IED 9.1.9008.LED STRP. Ofer: 1 12 100 100 Complex: Texter 10 100 100 100 100 100 Complex: Texter 10 100 100 100 100 100 100	LED 1: L- LED 2: L- LED 3: L-	200: LINEAR LED: Other: 2: LED TROFFER: Other: 11: DOWNLIGHT: Other:		1 1 1	32 22 14	14 34 14	448 748 196
EEB 6.1.411; PERDANT: Ober 1 2 12 2	LED 4: L- LED 5: L8	413: PENDANT: Other: 3: SURFACE-MOUNT: Other:		1	1	12 27	12 54
LED 6.1. SUPERAINT: Other: 1 2 6 1 1 2 7 1 LED 9.1. JURGEANET: Concr. 1	LED 6: L- LED 7: L-	411: PENDANT: Other: 410: PENDANT: Other:		1 1	2 4	12 40	24 160
LEU TUL LASE: LEU SINPL'OWE: 1 1 1 102 101 Total Proposed Wells = 1 Total Proposed Wells = 1 10000 1000 1000 10000 10000 1000 10000	LED 8: L- LED 9: L-	5: PENDANT: Other: 3: UNDERCABINET: Other:		1 1	2 2	6 7	12 14
Atterior Lighting PASSES: Design 14% better than code Interior Lighting Compliance Statement Executions, and other calculations submitted with this permit application. The propaged interior lighting systems have been dispected to meth 2018 ICC executiveness in the two performance in the interior lighting systems have been dispected to meth the properties in the interior lighting systems have been dispected to meth the permit application. The propaged interior lighting systems have been dispected to meth the permit application. The propaged interior lighting systems have been dispected to meth the permit application. The propaged interior lighting systems have been dispected to method. Project Title: JPM CHASE Report date: 0.302 Section Complies Complies Colocation in the advanced properties of the permit application of the permit application of the properties of the permit application of	LED 10: L	-308: LED STRIP: Other:		1	1 Total Propose	192 ed Watts =	192 1860
Section 6 Reg.ID Report date: 0302 Section 6 Reg.ID Report date: 0302 Section 6 Reg.ID Report date: 0302 Section 6 Reg.ID Comples C405.2.3 Space required to have light: creature that compare thinking load or eacoust that are enclosed or the place of the eacoust that are enclosed or the place of eacoust eacoust that are enclosed or the place of eacoust ea	Compliance specification	e Statement: The proposed interior ligh ons, and other calculations submitted wi	ting design represen th this permit application A	ted in this document is ation. The proposed int	consistent with cerior lighting sy	n the buil /stems ha	ding plar ave been
Project Title: [PM CHASE Report date: 0.002 Data filename: 'Ulusion/AEJPM ChaseNidivest-I. II. NY IXY MI CH WV4121000090-Propr Ed and Lowenstein D. Page 1 of Concentration of Concentratio	designed t requireme	o meet the 2018 IECC requirements in C nts listed in the Inspection Checklist.	OMcheck Version 4.	1.5.3 and to comply wit	th any applicab	ie manda	tory
Section # Breq.ID Rough-In Electrical Inspection Compiles? Comments/Assumptions C405.2.1 (2452) Space required to have [ight: a reasonably uniform illumination pattern >= 50 percent. Compiles Does Not Not Applicable REFER TO SHEETS E2 AND E5. C405.2.1 (2452.1.1) Comparty sensors installed in compary sensors installed in pattern >= 50 percent. Compiles Does Not Not Applicable REFER TO THE LIGHTING PLAN ON SHEET E2 AND THE SYMBOL LEGEND ON SHEET E0. C405.2.1 (2405.2.1) Coron of function in warehouses and sector C405.2.1.3 Compiles Does Not Not Applicable C405.2.1 (2405.2.1) Occupant sensor control function in warehouses and sector C405.2.1.3 Compiles Does Not Dot Observable Does Not Dot Observable Does Not Dot Observable control lighting in each alseway biodgenedation and on control lighting beyon the alseway biodgenedation and and control control lighting prover assor control function in open plan office areas. Control lighting now office spaces control lighting power needs control lighting power and all and control control of separately in control control appending and all and control control cone in educed by >= 80% of the tail control cone, general lighting control cone general li	Data mena	C60025810702\09 MEP (No-CAD)\0	01 ELEC\CALCS\PRYO	R RD & LOWENSTEIN D	DR.cck	D Page	1 01
6 Req.10 Complex Complex 2 Controls have a manual control that allows the occupant to reduce the connected lighting load in a reasonably unformation pattern >= 50 percent. Complex Complex C405.2.1 Compary sensors installed in Complex Complex Complex C405.2.1 Compary sensors installed in coms, storage rooms, locker rooms, storage rooms, locker rooms, storage rooms, locker rooms, storage rooms, locker rooms, to complex rooms, enclosed offices, path office areas, nestrooms, storage rooms, locker rooms, the rease is comparison of the reason storage rooms, locker rooms, storage rooms, locker rooms, storage rooms, locker rooms, storage rooms, locker rooms, the reason storage rooms, locker rooms, locker rooms, locker rooms, locker rooms, locker rooms, storage rooms, locker rooms, locker rooms, locker rooms, locker ro							
E1221 control that allows the occupant to reasonably uniform illumination pattern >= 50 percent. INOT Observable INOT Applicable C405.2.1. Occupancy sensors installed in class, conference/meeting/multipurpose rooms, copyright rooms, locar grants, restrooms, storage rooms, locar comms, enclosed offices, storage rooms, locar comms, include rooms, locar comms, lo	Section #	Rough-In Electrical Inspection	Complies?	Com	ments/Assum	otions	
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[E118]* rooms, copyright rooms, speep plan office areas, restrooms, storage rooms, locker rooms, warehouse storage areas, and other spaces <= 300 gaft that are enclosed by forence setting heigh partitions. For open plan office spaces. INot Applicable Not Applicable C405.2.1. Occupancy sensors control function in warehouses, in warehouses, the by forence setting in alloways and open areas is control lighting in each aliseway independently and do not control lighting beyond the aliseway being controlled by the sensor. IComplies Does Not Not Applicable C405.2.1. Occupants sensors controllighting in each aliseway independently and do not control lighting beyond the aliseway being controlled by the sensor. IComplies Does Not Not Applicable C405.2.1. Open plan office areas: Occupant sensor controls in open office spaces. >> 300 sqft. have controls 1) controlled separately in control zones with floor areas <= 600 sq.ft. Within the space, 2) automatically turn off general lighting power within 20 minutes after all occupants have left the space, 3) are configured so that general lighting power within 20 minutes after all occupants have left the space, 3) are configured so that general lighting power within 20 minutes after all occupants teaving that control zone, and 4) are configured so that any daylight responsive control will activate space general lighting or control zone switch controls and functions detailed. IComplies Does Not Not Observable C405.2.2 2 Each area not served by occupancy sorsor (per CA05.2.1) have times switch controls and functions detailed (acto.2.2) 2 IComplies boes Not have chorsors and functions detailed (Not Observable	Section # & Req.ID C405.2.2. 2 [EL22] ¹	Rough-In Electrical Inspection Spaces required to have light- reduction controls have a manual control that allows the occupant to reduce the connected lighting load in a reasonably uniform illumination pattern >= 50 percent.	Complies?	Com REFER TO SHEE	ments/Assumj 3TS E2 AND	ptions E5.	
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C405.2.1.3 for open plan office spaces. Complies C405.2.1.3 for open plan office spaces. Complies 2 Corcuparty essons control function in warehouses: In warehouses, the incontrolled with occupant sensors that unoccupied. The occupant sensors control lighting in each alsieway independently and do not control lighting beyond the aisleway independently and do not control lighting on site sensor. Not Observable C405.2.1. 0 Coupant sensor control function in open plan office areas. Occupant sensor controls in open office spaces >= 300 sq.ft. have controls 1) configured so that general lighting can be controlled separately in control zones with floor areas <= 60 sq.ft. within the space, 2) automatically turn off general lighting in all corcupants have left the space. Shave left the space. Shave control sune area is detected. Complies Does Not Not Applicable C405.2.2. C405.2.2. Each area not served by occupancy general lighting only when occupants leaving that control zones witch not notrol zone, and 4) are configured so that any daylight responsive control will activate space general lighting only or control zone is sensor (per C405.2.2. La charea not served by occupancy for the same area is detected. Complies Does Not Not Observable C405.2.2. [E121] ⁷ Ech area not served by occupancy for the same area is detected. Complies Does Not Not Observable C405.2.2. [E121] ⁷ Ech area not served by occupancy for the same area is detected. Complies Does Not Not Observable Not Observable Not Observable Not Observable Not Observable	Section # & Req.ID C405.2.2. 2 [EL22] ¹ C405.2.1, C405.2.1. 1 [EL18] ¹	Rough-In Electrical Inspection Spaces required to have light- reduction controls have a manual control that allows the occupant to reduce the connected lighting load in a reasonably uniform illumination pattern >= 50 percent. Occupancy sensors installed in classrooms/lecture/training rooms, conference/meeting/multipurpose rooms, copy/print rooms, lounges/breakrooms, enclosed offices, open plan office areas, restrooms, storage rooms, locker rooms, warehouse storage areas, and other spaces <= 300 sqft that are enclosed	Complies? Complies Does Not Not Observable Not Applicable Complies Does Not Not Observable Not Observable Not Applicable	Com REFER TO SHEE REFER TO THE 1 SHEET E2 AND 1 ON SHEET E0.	ments/Assum STS E2 AND LIGHTING PI THE SYMBOL	ptions E5. LAN ON LEGENI)
C4U3_2.1. Occupancy sensors control function in Licomplies Does Not [EL19] ¹ Iighting in aisleways and open areas is automatically reduce lighting power by 50% or more when the areas are unoccupied. The occupant sensors that automatically reduce lighting power by 50% or more when the areas are unoccupied. The occupant sensors controls lighting beyond the aisleway being independently and do not control lighting the sensor. Not AppLiCABLE TO THIS PROJECT. C405.2.1. Occupant sensor control function in 30 open plan office spaces. Complies 3 open plan office areas: Occupant sensor controls in open office spaces. Does Not [EL20] ¹ >= 300 sg.ft. Does Not > = 300 sg.ft. Not Observable Not Observable Not Observable Not Applicable Not Observable Not Observable Not Applicable Not Observable Not Observable Not Applicable Not Applicable C405.2.1. Occupants enditing power Not Applicable Not observable Not Observable Not Observable Not the full zone general lighting power in each configured such	Section # & Req.ID C405.2.2. 2 [EL22] ¹ C405.2.1, C405.2.1, 1 [EL18] ¹	Rough-In Electrical Inspection Spaces required to have light- reduction controls have a manual control that allows the occupant to reduce the connected lighting load in a reasonably uniform illumination pattern >= 50 percent. Occupancy sensors installed in classrooms/lecture/training rooms, conference/meeting/multipurpose rooms, copy/print rooms, lounges/breakrooms, enclosed offices, open plan office areas, restrooms, storage rooms, locker rooms, warehouse storage areas, and other spaces <= 300 sqft that are enclosed by floor-to-ceiling height partitions. Reference section language C405.2.1.2 for control function in	Complies? Complies Not Not Observable Not Applicable Complies Does Not Not Observable Not Applicable Not Observable Not Observable Not Observable Not Applicable	Com REFER TO SHEE REFER TO THE 1 SHEET E2 AND 2 ON SHEET E0.	ments/Assum STS E2 AND LIGHTING PI THE SYMBOL	ptions E5. LAN ON LEGENI	
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Signature

03/02/2022 Date

COM*check* Software Version 4.1.5.3 L. **Inspection Checklist**

Energy Code: 2018 IECC Requirements: 0.0% were addressed directly in the COMcheck software Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
C103.2 [PR4] ¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	Complies Does Not Not Observable Not Applicable	REFER TO SHEETS E0,E2 AND E6.
C406 [PR9] ¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the additional energy efficiency package options.	Complies Does Not Not Observable Not Applicable	REFER TO SHEETS E0,E2 AND E6.

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Mediu

Project Title: JPM CHASE Data filename: \\fusion\AE\JPM Chase\Midwest- IL IN WI KY MI C C60025810702\09 MEP (No-CAD)\01 ELEC\CALC

Project Title: JPM CHASE Report date: 03/02/22 Data filename: \\fusion\AE\JPM Chase\Midwest- IL IN WI KY MI OH WV\4121000090- Pryor Rd and Lowenstein D Page 2 of 7 C60025810702\09 MEP (No-CAD)\01 ELEC\CALCS\PRYOR RD & LOWENSTEIN DR.cck

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.3, C405.2.3. 1, C405.2.3. 2 [EL23] ²	Daylight zones provided with individual controls that control the lights independent of general area lighting. See code section C405.2.3 Daylight-responsive controls for applicable spaces, C405.2.3.1 Daylight responsive control function and section C405.2.3.2 Sidelit zone.	Complies Does Not Not Observable Not Applicable	REFER TO THE LIGHTING PLAN ON SHEET E2 AND CONTROLS ON E5.
C405.2.4 [EL26] ¹	Separate lighting control devices for specific uses installed per approved lighting plans.	Complies Does Not Not Observable Not Applicable	REFER TO THE LIGHTING PLAN ON SHEET E2.
C405.2.4 [EL27] ¹	Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting.	Complies Does Not Not Observable Not Applicable	NOT APPLICABLE TO THIS PROJECT.
C405.3 [EL6] ¹	Exit signs do not exceed 5 watts per face.	Complies Does Not Not Observable Not Applicable	REFER TO THE EXIT SIGN DESCRIPTION IN THE LIGHTING FIXTURE SCHEDULE ON SHEET E0.
C405.6 [EL26] ²	Low-voltage dry-type distribution electric transformers meet the minimum efficiency requirements of Table C405.6.	Complies Does Not Not Observable Not Applicable	NOT APPLICABLE TO THIS PROJECT.
C405.7 [EL27] ²	Electric motors meet the minimum efficiency requirements of Tables C405.7(1) through C405.7(4). Efficiency verified through certification under an approved certification program or the equipment efficiency ratings shall be provided by motor manufacturer (where certification programs do not exist).	Complies Does Not Not Observable Not Applicable	REFER TO THE MECHANICAL DRAWINGS.
C405.8.2, C405.8.2. 1 [EL28] ²	Escalators and moving walks comply with ASME A17.1/CSA B44 and have automatic controls configured to reduce speed to the minimum permitted speed in accordance with ASME A17.1/CSA B44 or applicable local code when not conveying passengers.	Complies Does Not Not Observable Not Applicable	NOT APPLICABLE TO THIS PROJECT.
C405.9 [EL29] ²	Total voltage drop across the combination of feeders and branch circuits <= 5%.	Complies Does Not Not Observable Not Applicable	REFER TO THE VOLTAGE DROP CALCULATIONS ON SHEET E7.

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3) Project Title: JPM CHASE Report date: 03/02/22

Data filename: \\fusion\AE\JPM Chase\Midwest- IL IN WI KY MI OH WV\4121000090- Pryor Rd and Lowenstein D Page 5 of 7 C60025810702\09 MEP (No-CAD)\01 ELEC\CALCS\PRYOR RD & LOWENSTEIN DR.cck

Final Inspection Compli & Req.ID C303.3, Furnished O&M instructions for Complies C408.2.5. systems and equipment to the Does Not building owner or designated □Not Observ [FI17]³ representative. □Not Applica C405.4.1 [FI18]¹ Interior installed lamp and fixture lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts. C408.1.1 Building operations and maintenance Complies documents will be provided to the Does Not owner. Documents will cover manufacturers' information, Not Observ Not Applica specifications, programming procedures and means of illustrating to owner how building, equipment and systems are intended to be installed, maintained, and operated. Complies C408.2.5. Furnished as-built drawings for

 1
 electric power systems within 90 days

 [FI16]³
 of system acceptance.

 Not Obser Not Applica C408.3 Lighting systems have been tested to Complies [FI33]¹ ensure proper calibration, adjustment, Does Not programming, and operation. Not Observ Not Applic Additional Comments/Assumptions:

2

Project Title: JPM CHASE

ım Impact (Tier 2)	3	Low Impact (Tier 3)			
		Rep	ort date:	03/02,	/2
0H WV\4121000090- F CS\PRYOR RD & LOWE	Pryo	r Rd and Lowenstein D TEIN DR.cck	Page	3 of	

267	Comments/Assumptions						
rvable	REFER TO NOTE 45 ON SHEET E0.						
rvable cable	REFER TO THE LIGHT FIXTURE SCHEDULE ON SHEET E0.						
rvable cable	REFER TO NOTE 45 ON SHEET E0.						
rvable cable	REFER TO NOTE 46 ON SHEET E0.						
rvable cable	REFER TO NOTE 47 ON SHEET E0.						





VOLTAGE DROP CALCULATION FROM	VOLTAGE DROP CALCULATION FROM	VOLTAGE DROP CALCULATION
TRANSFORMER TO MAIN DISCONNECT:	MAIN DISCONNECT TO PP1:	TO FARTHEST BRANCH CIRCUIT: PP3-35,37
SOURCE = AC, 3Φ VOLTAGE = 208.0 COND. MATERIAL = PVC POWER FACTOR = 0.90 COND. TEMP. = 75°C CONDUCTOR METAL = COPPER COND. PER PHASE = 1 WIRE SIZE = 600 MCM LOAD = 86.8 AMPS LENGTH (1-WAY) = 80.0 FEET RESULT: THE VOLTAGE DROP = 0.22%, 0.45V L-L.	$\begin{array}{rcl} \text{SOURCE} &=& \text{AC}, \ 3\Phi \\ \text{VOLTAGE} &=& 208.0 \\ \text{COND. MATERIAL} &=& \text{STEEL} \\ \text{POWER FACTOR} &=& 0.90 \\ \text{COND. TEMP.} &=& 75^{\circ}\text{C} \\ \text{CONDUCTOR METAL} &=& \text{COPPER} \\ \text{COND. PER PHASE} &=& 1 \\ \text{WIRE SIZE} &=& 600 \text{ MCM} \\ \text{LOAD} &=& 86.8 \text{ AMPS} \\ \text{LENGTH (1-WAY)} &=& 25.0 \text{ FEET} \\ \text{RESULT:} \\ \text{THE VOLTAGE DROP} &=& 0.08\%, \ 0.16\text{V L-L.} \end{array}$	SOURCE = AC, 1 Φ VOLTAGE = 208.0 COND. MATERIAL = PVC POWER FACTOR = 0.90 COND. TEMP. = 75°C CONDUCTOR METAL = COPPER COND. PER PHASE = 2 WIRE SIZE = #10 LOAD = 0.968 KVA LENGTH (1-WAY) = 160.0 FEET RESULT: THE VOLTAGE DROP = 0.39%, 0.82V.

VOLTAGE DROP CALCULATION TO PP1 = 0.22%+0.08% = 0.30%

VOLTAGE DROP CALCULATION TO FARTHEST BRANCH CIRCUIT: 0.39%

TOTAL PERCENT VOLTAGE DROP = 0.30% + 0.39% = 0.69%



TRANSFER SWITCH

- SYSTEM SHALL INCLUDE MANUAL DOUBLE-THROW POWER TRANSFER SWITCH, GENERATOR CABLE CONNECTORS, AND ANY ASSOCIATED ENCLOSURES, CONDUITS AND CONDUCTORS AS REQUIRED FOR A COMPLETE EMERGENCY TRANSFER SWITCH INSTALLATION.
- 2. SYSTEM ELECTRICAL CHARACTERISTICS:
- 2.1. 3-POSITION SWITCH: ON (UTILITY POWER) / OFF / ON (EMERGENCY GENERATOR POWER)
- 2.2. 3 PHASE, 60 HZ, NEUTRAL BAR, 208/120 V OR 480/277 V (MATCH UTILITY SERVICE ENTRY WITH AIC RATING CAPABLE OF WITHSTANDING THE AVAILABLE FAULT CURRENT OF THE
- INCOMING UTILITY.) 2.3. SWITCH AND CONNECTOR CURRENT CAPACITY SHALL MATCH MAIN SERVICE PANEL CIRCUIT BREAKER
- 3. ENGINEERING DESIGN OF THE ETS SYSTEM SHALL POWER THE FULL FACILITY UNDER 100% LOAD.
- 4. ALL WORK SHALL COMPLY WITH ALL APPLICABLE CODES. WHERE COMBUSTIBLE MATERIALS (DIESEL FUEL OR THE LIKE) ARE TO BE STORED, THE ARCHITECT OF RECORD IS RESPONSIBLE FOR DETERMINING CODE-COMPLIANT PLACEMENT OF TEMPORARY STORAGE TANKS.
- 5. ALL MATERIALS AND ASSEMBLIES SHALL BE UL-LISTED FOR THIS APPLICATION. EXTERIOR ENCLOSURES SHALL BE RATED MINIMUM NEMA 3R FOR EXTERIOR USE.
- 6. APPLY VISUAL ELECTRICAL HAZARD WARNINGS AS REQUIRED BY CODE.
- . THE ETS SHALL BE PROTECTED FROM VEHICULAR DAMAGE BY CONCRETE CURBS, BOLLARDS OR OTHER DEVICES AS REQUIRED.
- 8. ALL CONDUIT AND FITTINGS SHALL BE WATER-TIGHT HEAVY-WALL THREADED RIGID GALVANIZED STEEL. ALL ENCLOSURES SHALL ACHIEVE NEMA MINIMUM RATING REQUIERD FOR THEIR INTENDED USE.
- 9. SWITCH ENCLOSURE SHALL INCLUDE LOCK HASPS AT ALL THREE SWITCH POSITIONS SECURING THE SWITCH POSITION AND PANEL DOOR.
- 10.GENERATOR CONNECTION ENCLOSURE SHALL INCLUDE LOCK HASP. 11.PADLOCKS AT TRANSFER SWITCH AND GENERATOR CONNECTION
- ENCLOSURES SHALL BE PROVIDED BY OWNER (CHASE FACILITIES) TO GENERAL CONTRACTOR FOR INSTALLATION AT TURNOVER TO RETAIL.
- 12. THE ETS SHALL INCLUDE A LOCKING GENERATOR CONNECTION ENCLOSURE ATTACHED DIRECTLY TO THE UNDERSIDE OF THE SWITCH ENCLOSURE. THE CONNECTION ENCLOSURE SHALL INCLUDE A SAFETY INTERLOCK WITH THE ETS TO PREVENT CONNECTION / DISCONNECTION WHILE UNDER LOAD. THE CABLE OPENINGS IN THE ENCLOSURE SHALL BE DESIGNED SO AS TO PERMIT ADEQUATE CABLE SLACK TO ROUTE THE CABLE WITHOUT DAMAGE, AND TO PREVENT ENTRY OF WIND-DRIVEN PRECIPITATION.
- 13.GENERATOR CABLE CONNECTIONS WITHIN THE CONNECTION ENCLOSURE SHALL BE COOPER CAMLOK E1016 COLOR-CODED MALE PANEL CONNECTORS WITH FLIP COVERS. THE ENCLOSURE SHALL BE SIZED AS REQUIRED TO ACCEPT AND SECURE THE GENERATOR CABLES FITTED WITH FEMALE COOPER CAMLOK E1016 CONNECTORS.
- 14.THE CONNECTION ENCLOSURE INTERIOR SHALL INCLUDE UNIFORM PHENOLIC WEATHER-PROOF SIMPLE FUNCTIONAL INSTRUCTIONS AS TO THE INSTALLATION OF CABLES, PHASE ROTATION CHECK, AND SWITCH OPERATION. 15. THE CONNECTION ENCLOSURE SHALL INCLUDE A CORRECT
- PHASE ROTATION INDICATOR, ALLOWING THE OPERATOR TO ENSURE THAT THE GENERATOR PHASE ROTATION MATCHES THE UTILITY PHASE ROTATION REGARDLESS OF THE POSITION OF THE ETS. 16.THE ETS ENCLOSURE SHALL INCLUDE AN INDICATOR OF UTILITY
- AVAILABILITY REGARDLESS OF THE POSITION OF THE ETS. 17.GENERATOR FUEL SOURCE MAY VARY BY REGION. COORDINATE WITH UTILITIES TO DETERMINE AVAILABILITY OF NATURAL GAS OR DIESEL FUEL TYPE. PRIOR TO PROCEEDING WITH DESIGN: 17.1. FOR NATURAL GAS GENERATORS, PROVIDE THE REQUIRED FUEL
- CONNECTION AT THE BUILDING OR ON THE SITE. 17.2. FOR DIESEL GENERATORS, VERIFY WITH LOCAL AUTHORITIES HAVING JURISDICTION PERMITTED ON-SITE FUEL

#SSD4-400C-400C-208-311-S-S-304089VSCH EXTERIOR-RATED INTEGRAL CABLE CAM-LOCK CONNECTION BAY. -

PAD MOUNTED UTILITY TRANSFORMER 208/120V, 3PH, 4W

GRADE

PRIMARY CONDUCTORS AND TERMINATION AT TRANSFORMER BY UTILITY COMPANY -















	SY	MBOLS LIST			THESE DRAWINGS CONTAIN THE SPECIFICATIONS FOR INSTALLING THE STRUCTURED CABLING	IMPLE
SYMBOL	DESCRIPTION	BACKBOX REQUIREMENTS (BY EC)	CONDUIT REQUIREMENTS (BY EC)	MOUNTING HEIGHT (UNLESS NOTED OTHERWISE)	 CATEGORY 6 UTP, 6A UTP, & 6A F/UTP COPPER CABLING INFRASTRUCTURE AND ASSOCIATED HARDWARE TELECOM ROOM EQUIPMENT FIBER OPTIC CABLING AND ASSOCIATED HARDWARE (IF REQUIRED) 	INSTALLATION
× V	DATA OUTLET LOCATION, WALL MOUNTED. PROVIDE (X) CAT 6 RJ-45 JACKS, (X) HORIZONTAL CAT 6 CABLES, & A 4-PORT WHITE FACEPLATE. PROVIDE BLANKS FOR UNOCCUPIED PORTS. "X" DENOTES NUMBER OF JACKS /CABLES. WHEN NO NUMBER IS PRESENT IT SHALL BE ONE CAT 6 JACK/CABLE.	5" SQUARE, BY 2-7/8" DEEP BACKBOX WITH A SINGLE GANG REDUCER. PROVIDE RANDL INDUSTRIES T-55017 WITH D-51 SERIES REDUCER OR EQUAL. REDUCER TO MATCH DRY WALL THICKNESS.	MINIMUM OF ONE 1" CONDUIT TO ABOVE THE ACCESSIBLE CEILING.	TYPICAL - 18" AFF, SEE ARCHITECTURAL PLANS FOR EXACT HEIGHT	STRUCTURED CABLING CONTRACTOR CLOSEOUT DOCUMENTATION REQUIREMENTS: A. REQUIRED 'AS-BUILTS': a. FLOOR PLAN 'AS-BUILTS' WITH ALL THE OUTLET LABELING INDICATED. b. FURNISH AND INSTALL A LAMINATED COPY (18X24) OF THE AS-BUILT FLOOR PLAN c. SUBMIT 'AS-BUILT' FLOOR PLANS IN BOTH DWG AND PDF FORMATS TO JPMC PRIOR TO THE	STRUCTURED CABLING - LOW VOLTAGE CABLING, RACKS, PATCH PANELS, PATCH CONDUITS AND BACKBOXES FOR STRUC SECURITY DEVICES, INCLUDING ASSOCI/
X V	DATA OUTLET LOCATION, FLOOR MOUNTED. PROVIDE (X) CAT 6 RJ-45 JACKS, (X) HORIZONTAL CAT 6 CABLES, & A 4-PORT FACEPLATE OR INSERT TO FIT FLOOR BOX. PROVIDE BLANKS FOR UNOCCUPIED PORTS. "X" DENOTES NUMBER OF JACKS/CABLES. WHEN NO NUMBER IS PRESENT IT SHALL BE ONE	DUAL SERVICE POWER AND LOW VOLTAGE RECESSED BOX.	MINIMUM OF ONE 1" CONDUIT TO ABOVE THE ACCESSIBLE CEILING. REFER TO CABLE FILL CHART.	FLOOR	COMPLETION OF THE PROJECT. B. ALL STRUCTURED CABLING TEST RESULTS IN PDF FORMAT. THIS DOCUMENTATION SHALL REFERENCE THE PROJECT ADDRESS WITHIN THE DOCUMENT. C. ALL STRUCTURED CABLING MANUFACTURER WARRANTIES. THIS DOCUMENTATION SHALL REFERENCE THE PROJECT ADDRESS WITHIN THE DOCUMENT. REFER ALL QUESTIONS TO STRUCTURED CABLING ENGINEER LISTED BELOW:	NEMA RATED BOXES FOR POLE MOUNTE AUDIO / VISUAL DEDICATED IN-WALL STO
X	CAT 6 JACK/CABLE. DATA OUTLET LOCATION, TABLE-TOP MOUNTED. PROVIDE (X) CAT 6 RJ-45 JACKS, (X) HORIZONTAL CAT 6 CABLES, & INSERT TO FIT TABLE-TOP BOX. PROVIDE BLANKS FOR UNOCCUPIED PORTS. "X" DENOTES NUMBER OF JACKS/CABLES.	NOT APPLICABLE - FED FROM FLOOR JUNCTION BOX.	CONCEAL CABLING FROM FLOOR JUNCTION BOX WITHIN WIRE MESH.	TABLE TOP	KEVIN BRENNAN JPMC PH: 614.217.5158 EMAIL: kevin.m.brennan@jpmchase.com	CABLE SUPPORTS (OUTSIDE OF RMER/R LADDER RACKS (INSIDE RMER/RTRs) FOR
W V	WALL MOUNTED TELEPHONE OUTLET LOCATION. WALL MOUNTED, 1-PORT OUTLET. PROVIDE (1) CAT 6 RJ-45 JACK, (1) HORIZONTAL CAT 6 CABLE, AND A 4-PORT FACEPLATE FOR MOUNTING A TELEPHONE.	5" SQUARE, BY 2-7/8" DEEP BACKBOX WITH A SINGLE GANG REDUCER. PROVIDE RANDL INDUSTRIES T-55017 WITH D-51 SERIES REDUCER OR EQUAL.	ONE 1" CONDUIT TO ABOVE THE ACCESSIBLE CEILING.	TYPICAL 44" AFF WITH A 6" CLEARANCE ON ALL SIDES OF FACEPLATE, SEE ARCHITECTURAL PLANS FOR EXACT HEIGHT	CONTRACTORS, NOT THE GENERAL CONTRACTOR OR ELECTRICAL CONTRACTOR. THE BASE BID SHALL INCLUDE ALL LABOR AND MATERIAL NECESSARY TO PROVIDE A COMPLETE STRUCTURED CABLING SYSTEM (E.G., ALL CABLING, CONVEYANCE, PATCH PANELS, MISCELLANEOUS MATERIALS, LABELING, ETC. REGARDLESS OF MANUFACTURER SPECIFIC ITEMS AS IDENTIFIED IN THE BID). THE BIDDER IS RESPONSIBLE FOR ALL PERMITS AND SHALL INCLUDE THE COST IN THEIR BID. BIDDERS SHALL ALSO INCLUDE APPLICABLE TAXES IN THEIR RESPONSE.	GROUNDING TO THE RMER/RTR INCLUDI GROUNDING IN THE RMER/RTR FROM TH THE RACK BUSBAR & ALL OTHER EQUIPM
ATM V	ATM DATA OUTLET LOCATION, WALL MOUNTED. PROVIDE (1) CAT6 & (1) CAT6A RJ-45 JACKS, (1) HORIZONTAL CAT6 CABLE, (1) HORIZONTAL CAT6A CABLE, & A 4-PORT WHITE FACEPLATE. PROVIDE BLANKS FOR UNOCCUPIED PORTS. REFER TO DETAIL	5" SQUARE, BY 2-7/8" DEEP BACKBOX WITH A SINGLE GANG REDUCER. PROVIDE RANDL INDUSTRIES T-55017 WITH D-51 SERIES REDUCER OR EQUAL.	ONE 1" CONDUIT TO ABOVE THE ACCESSIBLE CEILING.	CONCEALED BEHIND ATM, COORDINATE WITH ATM DESIGN	AFF = ABOVE FINISHED FLOOR AFF = ABOVE FINISHED FLOOR AFF = ABOVE FINISHED COLUNTER	PLYWOOD BACKBOARDS - MARKED WITH TC-DRAWINGS. NETWORK EQUIPMENT WITHIN RMER/RT
WAP	WIRELESS ACCESS POINT OUTLET LOCATION. CEILING MOUNTED. PROVIDE (1) HORIZONTAL CAT 6A CABLE & A PLENUM RATED IN-CEILING CONNECTOR ASSEMBLY.	HARD CEILING LOCATIONS ONLY: 5" SQUARE, BY 2-7/8" DEEP BACKBOX WITH A SINGLE GANG REDUCER. PROVIDE RANDL INDUSTRIES T-55017 WITH D-51 SERIES REDUCER OR EQUAL. SPECIALTY, OR OPEN-TO-STRUCTURE CEILING: SEE INSTALLATION DETAILS	HARD CEILING LOCATIONS ONLY: ONE 1" CONDUIT TO ABOVE THE NEAREST ACCESSIBLE CEILING.	CEILING	APC = ABOVE FINISHED COUNTERNEC = NATIONAL ELECTRICAL CODEBAS = BUILDING AUTOMATION SYSTEMNFPA = NATIONAL FIRE PROTECTION ASSOCIATIONBBC = BACKBONE BONDING CONDUCTOROPR = OWNER'S PROJECT REPRESENTATIVEBICSI = BUILDING INDUSTRY CONSULTING SERVICEPBB = PRIMARY BONDING BUSBARINTERNATIONALPDU = POWER DISTRIBUTION UNITCAT = CATEGORY (CABLING)PM = PROJECT MANAGER	RACK MOUNTED POWER DISTRIBUTION I RACK MOUNTED POWER DISTRIBUTION I POWER CORDS FOR NETWORK EQUIPME
CAM CAM CAM	INTERIOR SECURITY CAMERA LOCATION. PROVIDE (1) HORIZONTAL CAT 6A CABLE, & A PLENUM RATED IN-CEILING CONNECTOR ASSEMBLY COILED ABOVE THE CEILING FOR THE SECURITY CONTRACTOR TO ACCESS AND CONNECT TO THE CAMERA. FOR WALL MOUNTED LOCATIONS ROUTE 1" FLEX CONDUIT TO WALL INDICATED AT NOTED MOUNTING HEIGHT	HARD CEILING LOCATIONS ONLY: 5" SQUARE, BY 2-7/8" DEEP BACKBOX WITH A SINGLE GANG REDUCER. PROVIDE RANDL INDUSTRIES T-55017 WITH D-51 SERIES REDUCER OR EQUAL.	HARD CEILING LOCATIONS ONLY: ONE 1" CONDUIT TO ABOVE THE NEAREST ACCESSIBLE CEILING.	ABOVE ACCESSIBLE CEILING	CCTV = CLOSED CIRCUIT TELEVISION RBB = RACK BONDING BUSBAR CM = CONSTRUCTION MANAGER RBC = RACK BONDING CONDUCTOR CP = CONSOLIDATION POINT RMER = RETAIL MAIN EQUIPMENT ROOM EC = ELECTRICAL CONTRACTOR RTR = RETAIL TELECOMMUNICATIONS ROOM EMT = ELECTRICAL METALLIC TUBING SBB = SECONDARY BONDING BUSBAR ENT = ELECTRICAL NON-METALLIC TUBING SC = SECURITY CONTRACTOR	WIRELESS ACCESS POINTS SECURITY DEVICES - CAMERAS, ACCESS DETECTION. A/V DEVICES - DISPLAYS, CONTROLS, SP SIGNAGE, ETC.
CAM V	SECURITY CAMERA LOCATION. WALL MOUNTED. PROVIDE (1) HORIZONTAL CAT 6A CABLE & A PLENUM RATED IN-CEILING CONNECTOR ASSEMBLY COILED ABOVE THE CEILING FOR THE SECURITY CONTRACTOR TO ACCESS AND CONNECT TO THE CAMERA. FOR INTERIOR LOCATIONS, LEAVE PIGTAIL COILED ABOVE THE CEILING. FOR EXTERIOR LOCATIONS, ROUTE PIGTAIL THROUGH 1" FLEX CONDUIT TO EXTERIOR BACK BOX.	FOR INTERIOR CAMERA LOCATIONS, NO BACK BOX IS REQUIRED. FOR EXTERIOR CAMERA LOCATIONS, PROVIDE A DUAL GANG BACK BOX WHERE SHOWN ON FLOOR PLANS.	FOR INTERIOR CAMERA LOCATIONS, NO CONDUIT IS REQUIRED UNLESS OTHERWISE NOTED. FOR EXTERIOR CAMERA LOCATIONS, PROVIDE A 1" FLEX CONDUIT TO ABOVE ACCESSIBLE CEILING.	SEE SECURITY PLANS FOR MOUNTING HEIGHTS	ESD = ELECTROSTATIC DISCHARGETBB = TELECOMMUNICATIONS BONDING BACKBONEF/UTP = FOIL SHIELD WITH UNSHIELDED TWISTED PAIRTBC = TELECOMMUNICATIONS BONDING CONDUCTORGC = GENERAL CONTRACTORTC = TELECOMMUNICATIONS CONTRACTORGTI = GLOBAL TECHNOLOGY INFRASTRUCTURETEBC = TELECOMMUNICATIONS EQUIPMENT BONDING CONDUCTORIEC = INTERNATIONAL ELECTROTECHNICAL COMMISSIONTIA = TELECOMMUNICATIONS INDUSTRY ASSOCIATION	WIRELESS CELLULAR ANTENNA SYSTEM WIRELESS CELLULAR ANTENNA SYSTEM BMS SYSTEM& DEVICES
	FIRE-RATED WALL SLEEVE FOR HORIZONTAL CABLING. PROVIDE SIZE AS INDICATED ON THE PLANS.	NOT APPLICABLE	NOT APPLICABLE	AT LEAST 6" ABOVE FINISHED ACCESSIBLE CEILING OF SURROUNDING SPACE		BACKGROUND MUSIC SYSTEM & DEVICE
	WALL SLEEVE FOR HORIZONTAL CABLING TO CONNECT TWO ACCESSIBLE CEILINGS SEPARATED AN INACCESSIBLE CEILING. PROVIDE SIZE AS INDICATED ON THE PLANS.	NOT APPLICABLE	NOT APPLICABLE	AT LEAST 6" ABOVE FINISHED ACCESSIBLE CEILING OF SURROUNDING SPACE	TC-000 TELECOM DRAWING & SYMBOL LIST, NOTES, & SCOPE OF WORK TC-001 TELECOM BOOK SPECS	DEFINITIONS: F = FURNISH T = INSTAN NEW SCOPE OF WORK A. THE COPPER STRUCTURED CABLIN INFRASTRUCTURE. THE FIBER STR
	LADDER RACK/CABLE RUNWAY INSTALLED WITHIN THE RMER AND/OR RTR. FINISH SHALL BE WHITE. SIZE AS INDICATED ON THE FLOOR PLAN DRAWINGS.	NOT APPLICABLE	NOT APPLICABLE	8'-0" AFF	TC-002 TELECOM BOOK SPECS TC-003 TELECOM BOOK SPECS TC-004 TELECOM BOOK SPECS	 B. FURNISH, INSTALL, LABEL AND TEST C. THE TELECOMMUNICATIONS CONTINUE THE TELECOM ROOM, AND PATCH F D. ALL OUTLETS, JACKS, CABLES, FAC
<u>ē ē</u>	TELECOMMUNICATIONS GROUNDING BUSBAR.	NOT APPLICABLE	NOT APPLICABLE	6" BELOW LADDER RACK	TC-005 TELECOM BOOK SPECS TC-101 TELECOM NEW FLOOR PLAN TC-102 TELECOM SITE PLAN	 ACCURACY ON BOTH ENDS: TELECO E. WAP INSTALLATION: CONTRACTOR THE WIRELESS ACCESS POINTS FU OUTLET TO THE WAP AND ONE ON F. NETWORK ELECTRONICS EQUIPMENT
	2-POST EQUIPMENT RACK WITH BLACK FINISH.	NOT APPLICABLE	NOT APPLICABLE	FLOOR	TC-201 FIRST FLOOR ENLARGED RMER PLAN AND ELEVATIONS TC-301 TELECOM SINGLE LINE DIAGRAM	 G. WALL PHONE INSTALLATION: CONT RECORD RELEVANT INFORMATION THE TELECOMMUNICATIONS OUTLE INSTALLED. THE CONTRACTOR SHARE
	VERTICAL WIRE MANAGER MOUNTED TO EITHER SIDE OF THE EQUIPMENT RACK WITH A BLACK FINISH. SIZE AS NOTED.	NOT APPLICABLE	NOT APPLICABLE	RACK	TC-401 TELECOM INSTALLATION DETAILS TC-402 TELECOM INSTALLATION DETAILS	AND BRACKETS. H. NETWORK TURN-UP: THE CONTRAC FOR TWO TECHNICIANS FOR OFF-H GENERAL COORDINATION NOT
TC-XXX	REFERENCE TO ANOTHER DRAWING VIEW. EXAMPLE SHOWN REFERS TO DETAIL 1 ON DRAWING TC-XXX.	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	TC-403 TELECOM INSTALLATION DETAILS TC-501 AV SOLUTION #3 75" DISPLAY INSTALLATION DETAILS TC-502 AV SOLUTION #7 32" DISPLAY INSTALLATION DETAILS	 A. RMERS AND RTRS SHALL NOT BE US OTHER TRADES ASIDE FROM STRUCTO TO ELECTRICAL OR MECHANICAL FIT TECHNOLOGY EQUIPMENT. ROUTING B. CONTRACTOR IS SOLELY RESPONSIB DOCUMENTS PROVIDED IN ALL CAS
NOTES: A. BACKBOXES SH 1. BACKBOX W 2. BACKBOX W 3. BACKBOX W 4. 1/2" RAISE SH 5. 5/8" RAISE SH 6. 3/4" RAISE SH	HALL BE AS FOLLOWS UNLESS ALTERNATE MANUFACTURER HAS BEEN ITH 1" AND 1-1/4" KNOCKOUTS: RANDL INDUSTRIES INC. PART #T-5501" ITH 3/4" AND 1" KNOCKOUTS: RANDL INDUSTRIES INC. PART #T-55018. ITH 1/2" AND 1" KNOCKOUTS: RANDL INDUSTRIES INC. PART #T-55019. NGLE GANG REDUCERS: RANDL INDUSTRIES INC. D-51G012. NGLE GANG REDUCERS: RANDL INDUSTRIES INC. D-51G058. NGLE GANG REDUCERS: RANDL INDUSTRIES INC. D-51G034.	N APPROVED BY OPR: 7.			TC-601 TELECOM MATERIALS AND PATCH PANEL SCHEDULES TC-602 ROOM READY & PRODUCTION READY CHECKLISTS CONDUIT REQUIREMENT CABLE FILL FOR UTP CABLE (CAT 6 OD = 0.24" CAT 6A OD = 0.285")	SPECIFICATIONS DURING THE BIDDIN APPROPRIATE INTERPRETATION. UF INCONSISTENCIES AT NO ADDITIONA SPECIFICATIONS ARE MORE STRING SPECIFICATIONS SHALL APPLY. THE OF WHICH WOULD RESULT IN CODE VIC WRITING.
					CONDUIT TRADE SIZE CONDUIT AREA (SQ IN) 40% FILL # OF CAT 6 CABLES 40% FILL # OF CAT 6A CABLES 1" 0.81 7 5 1-1/4" 1.27 11 9 1-1/2" 1.86 18 12	 TELECOM CARRIER CONDUIT A. ALL NEW CONDUITS FOR TELECOM SHALL HAVE A 3-CELL MAXCELL IN B. ALL CABLES MUST BE PULLED AT C. PULL BOXES SHOULD BE PLACED E CONDUIT.
					2" 3.26 28 21 3" 7.06 62 55 4" 12.56 111 92	 D. CONDUITS SHALL ENTER AND EXIT DEGREE BENDS. E. ALL 90 DEGREE BENDS SHALL HAV THE CONDUIT.
					ASSUMES INDUSTRY STANDARD AND NEC CODE IS TO DESIGN FOR A MAXIMUM OF 40% FILL. THE ACTUAL NUMBER OF CABLES WHICH CAN BE INSTALLED IN A PARTICULAR CONDUIT CAN BE LESS DEPENDING UPON CONDUIT LENGTH AND NUMBER OF BENDS. SEE CONDUIT INSTALLATION NOTES FOR MORE INFORMATION.	 ALL CONDULT END POINTS SHALL E G. ALL CONDUITS SHALL HAVE A PUL SHALL ALSO BE WITHIN THE CONE

EMENTATION RESPONSIBILITY MATRIX ITTEMS INTEMS HORIZONTAL AND BACKBONE I CORDS TURED CABLING, AV, AND ATED INNERDUCT AND PULL F&1 ITTEMS HORIZONTAL AND BACKBONE I CORDS TURED CABLING, AV, AND NTED INNERDUCT AND PULL F&1 ITTERS INSTALLATIONS F&1 ITTERS FOR STRUCTURED CABLING ITTURED CABLING, AV, AND ITTURED CABLING, AV, AND ITTURED CABLING ITTURED CA	I CHASE & CO. LOGY INFRASTRUCTURE SER SERVICES DATA CENTER SERVICES ABLING ENGINEERING /AY, COLUMBUS, OHIO 43240
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IRs) FOR STRUCTURED CABLING F & I F NION	
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PATHWAYS F&I	CATIONSDIC
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S F&I GBU	KEVIN BRENNAN
DUCTION READY CHECKLISTS F&I	Expires 12-31-23
L	RCDD
TELECOM SCOPE OF WORK	
JCTURED CABLING SOLUTION FOR THIS PROJECT SHALL BE CORNING. ISSUE NO date issue	e by
ALE CABLES AND COMINGNENTS FERSING STRUCTORED CABLING STANDARDS. RACTOR TO FURNISH AND INSTALL PATCH CORDS AT EVERY OUTLET LOCATION AND IN ROM THE DATCH DANEL TO NETWORK SMITCH IN THE BACK	ED FOR PERMIT/BID KB
EPLATES AND PATCH PANEL IDS SHALL BE LABELED ACCORDINGLY TO REFLECT THE	
SHALL RECEIVE, UN-BOX, MOUNT, PATCH, AND RECORD RELEVANT INFORMATION FOR RNISHED BY THE OWNER. EACH WAP HAS ONE PATCH THAT ARE INSTALLED FROM THE	
IT RACK AND STACK: CONTRACTOR SHALL COORDINATE WITH JPMC GTI PROJECT	
RACTOR SHALL RECEIVE, UN-BOX, MOUNT, PATCH, LABEL WALL PHONE BRACKETS, AND	
FOR THE WALL MOUNTED PHONES. THE WALL PHONE BRACKETS SHALL BE LABELED WITH T LABEL ID ON THE TOP OF THE BRACKET SO IT IS VISIBLE AFTER THE WALL PHONE IS	
TOR SHALL PROVIDE SUPPORT DURING NETWORK TURN-UP. THIS SHALL INCLUDE LABOR DURS WORK FOR TWO HOURS PER RMER AND/OR RTR.	
TURED CABLING. ANY PENETRATIONS INTO THESE ROOMS, INCLUDING BUT NOT LIMITED OUT TO SOLELY SUPPORT THE MERS AND TRS, SHALL BE ROUTED AWAY FROM THE	AN CHASE & CO
908 NW F	PRYOR RD
LE FOR DEVELOPING A STRUCTURED CABLING BILL OF MATERIALS FROM DESIGN	
LEE FOR DEVELOPING A STRUCTURED CABLING BILL OF MATERIALS FROM DESIGN ES WHERE CONTRACTOR IDENTIFIES UNCLEAR OR IMPRECISE DRAWINGS OR G OR QUOTATION PROCESS, CONTRACTOR SHALL CONTACT OPR, WHO SHALL FURNISH ON AWARD, CONTRACTOR ASSUMES RESPONSIBILITY FOR CORRECTING ANY AND ALL)3.02.2022 d ^{rawn} KB
LEE FOR DEVELOPING A STRUCTURED CABLING BILL OF MATERIALS FROM DESIGN ES WHERE CONTRACTOR IDENTIFIES UNCLEAR OR IMPRECISE DRAWINGS OR G OR QUOTATION PROCESS, CONTRACTOR SHALL CONTACT OPR, WHO SHALL FURNISH ON AWARD, CONTRACTOR ASSUMES RESPONSIBILITY FOR CORRECTING ANY AND ALL COST TO OWNER. HERE THE REQUIREMENTS OF CERTAIN SECTIONS OF THE ENT THAN APPLICABLE CODES, RULES, REGULATIONS, AND ORDINANCES, THE CONTRACTOR SHOULD NOTE ITEMS IN THE DRAWINGS OR THE SPECIFICATIONS, CONSTRUCTION	
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LEE FOR DEVELOPING A STRUCTURED CABLING BILL OF MATERIALS FROM DESIGN SS WHERE CONTRACTOR IDENTIFIES UNCLEAR OR IMPRECISE DRAWINGS OR IG OR QUOTATION PROCESS, CONTRACTOR SHALL CONTACT OPR, WHO SHALL FURNISH ON AWARD, CONTRACTOR ASSUMES RESPONSIBILITY FOR CORRECTING ANY AND ALL _COST TO OWNER. HERE THE REQUIREMENTS OF CERTAIN SECTIONS OF THE INT THAN APPLICABLE CODES, RULES, REGULATIONS, AND ORDINANCES, THE CONTRACTOR SHOULD NOTE ITEMS IN THE DRAWINGS OR THE SPECIFICATIONS, CONSTRUCTION LATIONS, THE CONTRACTOR SHALL PROMPTLY CALL THEM TO THE ATTENTION OF THE OPR IN INSTALLATION NOTES: IMUNICATIONS CARRIER CABLING SHALL BE RIGID METALLIC CONDUIT. EACH CONDUIT VERDUCT INSTALLED AND LABELED WITH THE SOURCE AND DESTINATION. THE SAME TIME TO ACHIEVE THE GREATER FILL LEVELS. VERY 100 FEET OR IF MORE THAN 180 DEGREES OF BENDS ARE INSTALLED IN THE PULL BOXES IN A CONTINUOUS DIRECTION. PULL BOXES ARE NOT TO BE USED FOR 90 E A SWEEPING BEND WITH A BEND RADII EQUAL TO AT LEAST 10 TIMES THE DIAMETER OF SE FREE OF SHARP EDGES AND PROVIDED WITH A SUITABLE BUSHING. HE FREE OF SHARP EDGES AND PROVIDED WITH A SUITABLE BUSHING.	AS NOTED M DRAWING LIST, NOTES E OF WORK 25810702

	SECTION 27 00 00 - COMMUNICATIONS INTRODUCTORY STANDARD	D.	CONTRACTOR: THE STRUCTURED CABLING INSTALLATION CONTRACTOR
PAR	T1-	E. F.	FURNISH: THE CONTRACTOR SHALL SUPPLY.
1.1	GENERAL REQUIREMENTS	G.	HC: HORIZONTAL CROSS-CONNECT
A.	THIS DOCUMENT IS INTENDED TO PROVIDE THE INFORMATION NECESSARY TO ALLOW THE DESIGN AND CONSTRUCTION TEAMS TO PLAN AND IMPLEMENT TELECOMMUNICATIONS CABLING INFRASTRUCTURES AND TO ENSURE THAT ALL NEW INSTALLATIONS AND RENOVATIONS ARE UNIFORM AND CONSISTENT WITH COMPANY-WIDE STANDARDS. THIS DOCUMENT IDENTIFIES THE TELECOMMUNICATIONS INFRASTRUCTURE REQUIREMENTS FOR RETAIL SPACES.	Н. I.	ILEC: INCUMBENT LOCAL EXCHANGE CARRIER. INSTALL: TO PUT INTO PLACE OR FIX IN POSITION READY FOR USE.
В.	IT IS ENVISIONED THAT NOT ALL RETAIL SPACES WILL REQUIRE THE COMPLETE RANGE OF SERVICES AND TELECOMMUNICATIONS INFRASTRUCTURE DESCRIBED IN THIS DOCUMENT. THE EXACT SOLUTION THAT SUITS EACH PARTICULAR SPACE WILL BE DEFINED AT THE	J. K.	JPMC: JP MORGAN CHASE & COMPANY MANDATORY: EQUIVALENT TERMS INCLUDE <i>MUST, SHALL, WILL, IS REQUIRED, & ARE REQUIRED.</i>
	COMMENCEMENT OF EACH PROJECT BY THE PROJECT TEAM.	L. М.	RTR: RETAIL TELECOMMUNICATIONS ROOM
1.2 A.	THIS STANDARD FOR RETAIL STRUCTURED CABLING DESIGN AND THE ACCOMPANYING APPENDICES IS INTENDED AS A STANDARD TO BE	N.	OPR: OWNER'S PROJECT REPRESENTATIVE. JPMC'S DESIGNATED REPRESENTATIVE RESPONSIBLE FOR A SUCCESSFUL PROJECT
	USED BY CONSTRUCTION DESIGN PROFESSIONALS (ARCHITECTS, ENGINEERS, DESIGNERS, ETC.). ITS PURPOSE IS TO DEFINE THE BASELINE DESIGN FOR RETAIL FACILITIES IN ORDER TO MAKE THEM EASIER TO SPECIFY, UTILIZE, AND MANAGE, AND TO STATE THE CABLING INFRASTRUCTURE STANDARDS ASSOCIATED WITH THESE SPACES. TO PROMOTE WIDE UNDERSTANDING IT IS BUILT UPON A	0. P.	OPTIONAL: EQUIVALENT TERMS INCLUDE CAN, MAY, SHOULD, PREFERABLY, PREFERS, DESIRED, & DESIRABLE. OWNER: JP MORGAN CHASE & COMPANY
B.	THIS STANDARD MUST BE USED AS A TOOL TO PLAN RETAIL FACILITIES. THIS DOCUMENT IS NOT INTENDED TO REPLACE THE SPECIFIC	Q.	PROJECT DOCUMENTS: ALL DOCUMENTS THAT PERTAIN TO THE PROJECT, INCLUDING, BUT NOT LIMITED TO, PROJECT DRAWINGS, THIS
	NEEDS OF A GIVEN RETAIL FACILITY OR ASSOCIATED DESIGN COORDINATION. IT MUST BE USED IN CONJUNCTION WITH NEEDS ASSESSMENT AND PROPER DESIGN COORDINATION. SPECIFIC PROJECT REQUIREMENTS SHALL BE DEFINED IN T-SERIES DRAWINGS THAT SHALL BE ISSUED AS PART OF A COMPLETE CONSTRUCTION DRAWING SET WITH THE ARCHITECTURAL, STRUCTURAL, MECHANICAL,	R. S.	STANDARD, AND PROJECT SPECIFICATIONS. PROVIDE: TO FURNISH AND INSTALL. SPECIFICATIONS: DIVISION 27 SPECIFICATIONS, WHICH OUTLINES GENERAL INSTALLATION REQUIREMENTS.
C.	IF A STANDARD CANNOT BE MET DURING THE PLANNING AND DESIGN PHASES, THE GROUP ACCOUNTABLE TO MEET THE REQUIREMENTS	Т.	TE: TELECOMMUNICATIONS ENCLOSURE
	MUST SUBMIT A REQUEST FOR EXCEPTION APPROVAL PRIOR TO PROCEEDING WITH A DEVIATION FROM THE STANDARD.	1.6	CODES, REGULATIONS, & STANDARDS
1.3	DESIGN CONSULTANT REQUIREMENTS	Α.	ALL ASPECTS OF CONSTRUCTION AND INSTALLATION MUST MEET APPLICABLE LOCAL, STATE, AND FEDERAL LAWS, AS WELL AS ANY REGULATIONS SPECIFIC TO A SITE. LEGALLY BINDING REQUIREMENTS MUST PREVAIL IF THERE ARE ANY CONFLICTS WITH REQUIREMENTS
А.	DESIGN CONSULTANT SHALL MEET ONE OF THE FOLLOWING CRITERIA:		STATED OR IMPLIED IN THIS DOCUMENT. THE AHJ WILL BE THE ARBITER IN SITUATIONS WHERE INTERPRETATION IS NECESSARY TO CLARIFY INFORMATION, OR TO RESOLVE CONFLICTS INVOLVING LEGALLY BINDING REQUIREMENTS.
	1. THE ENGINEER SHALL BE A BICST RCDD IN GOOD STANDING WITH AT LEAST 2 YEARS OF EXPERIENCE IN STRUCTURED CABLING DESIGN AND CONSTRUCTION MANAGEMENT.	В.	WORK SAFETY MUST BE IN COMPLIANCE WITH PUBLIC LAW 91-596, OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA). AS APPLICABLE,
	2. THE ENGINEER SHALL HAVE 10 YEARS OF EXPERIENCE IN STRUCTURED CABLING DESIGN AND CONSTRUCTION MANAGEMENT.	C.	CODES, REGULATIONS, STANDARDS, AND INDUSTRY PRACTICES DOCUMENTS EXPLICIT TO THIS STANDARD ARE LISTED IN SECTION 1.8
1.4 A.	TECHNOLOGY SPACE DEFINITIONS THE FOLLOWING ARE THE TYPES OF TECHNOLOGY SPACES THAT ARE FOUND IN RETAIL FACILITIES, RETAIL MAIN EQUIPMENT ROOM (RMER), RETAIL TELECOMMUNICATIONS ROOM (RTR), AND RETAIL TELECOMMUNICATIONS ENCLOSURE (RTE).		BELOW, BUT THEY ARE NOT EXHAUSTIVE. EVEN WHEN NOT EXPLICITLY CITED WITHIN THIS DOCUMENT, THERE IS AN IMPLIED REQUIREMENT OF COMPLIANCE WITH INDUSTRY NORMS REFLECTED IN RECOGNIZED STANDARDS AND PRACTICES, AS WELL AS REQUIREMENTS BASED IN LAW.
В.	RETAIL MAIN EQUIPMENT ROOM (RMER): THE RMER SERVES AS A COMMON NETWORK DISTRIBUTION POINT FOR THE TELECOMMUNICATIONS FOR SUITE COMMUNICATIONS FOR SUITE SUITE OF THE RMER SERVES AS A COMMON NETWORK DISTRIBUTION FOR THE FORMULA CABLING DISTRIBUTION.	D.	CODES, REGULATIONS, STANDARDS, AND INDUSTRY PRACTICES DOCUMENTS CHANGE OVER TIME. CURRENT GOVERNING CODES AND REGULATIONS AT A SITE LOCATION, AND THE MOST RECENT EDITION OF STANDARDS AND PRACTICES DOCUMENTS (INCLUDING ERRATA,
	POINT FOR A GIVEN AREA, AND THE INTERFACE WITH THE TELECOMMUNICATIONS SERVICE PROVIDERS (CARRIERS). ITEMS WITHIN THE RMER INCLUDE:	E.	ANNEXES, AND AMENDMENTS) MUST BE USED AT THE TIME FACILITIES ARE DESIGNED AND WHEN THEY ARE UTILIZED. ALTHOUGH A NUMBER OF STANDARDS AND PRACTICES ARE CITED IN THIS DOCUMENT, ANSI/TIA-569 "COMMERCIAL BUILDING STANDARD
	 FLOOR MOUNTED EQUIPMENT RACKS. JPMC NETWORKING EQUIPMENT (ROUTERS AND SWITCHES). 	-	FOR TELECOMMUNICATIONS PATHWAYS" HAS BOTH EXPLICIT AND IMPLICIT THREADS THROUGHOUT.
	 BACKBONE CABLING TERMINATIONS FROM RMER TO RTRS (IF APPLICABLE). HORIZONTAL CABLING TERMINATIONS. STRUCTURED CABLING PATHWAYS (LADDER RACKS AND FIRE-RATED WALL SLEEVES). 	г.	"STANDARD FOR INSTALLING COMMERCIAL BUILDING COMMUNICATIONS CABLING", AND THE BICSI "TELECOMMUNICATIONS DISTRIBUTION METHODS MANUAL (TDMM)".
	 WIRED TELECOMMUNICATIONS SERVICE PROVIDER CABLING ENTRANCE, CABLING TERMINATIONS, AND EQUIPMENT. WIRELESS TELECOMMUNICATIONS SERVICE PROVIDER CABLING ENTRANCE, CABLING TERMINATIONS, AND EQUIPMENT. 	1.7	REFERENCED JPMC STANDARDS
	 TELECOMMUNICATIONS MAIN GROUNDING BUSBAR. DEDICATED COOLING UNIT. 	А. В.	FOR ARCHITECTURE: RETAIL DESIGN COMMUNICATION #18-007. FOR PHYSICAL SECURITY: TS - NAMR - RETAIL FACILITY SECURITY DESIGN STANDARD VERSION 1.0
	10. AUDIO/VIDEO EQUIPMENT TO SUPPORT DIGITAL SIGNAGE APPLICATIONS.	18	REFERENCED CODES AND STANDARDS
	12. INTRUSION DETECTION SYSTEM PANELS.	A.	UNLESS OTHERWISE SPECIFICALLY STATED IN THIS DOCUMENT, ALL WORK SHALL BE PERFORMED IN FULL COMPLIANCE WITH THE
	13. MOOD MUSIC SYSTEM EQUIPMENT. 14. BUILDING MANAGEMENT SYSTEM (BMS) EQUIPMENT.		REQUIREMENTS SET FORTH IN THE FOLLOWING REFERENCE STANDARDS. IN ANY CASE WHERE REGIONAL STANDARDS DISAGREE, LOCAL CODES AND STANDARDS APPLY. EVEN WHEN NOT EXPLICITLY CITED WITHIN THIS STANDARD DOCUMENT, THERE IS AN IMPLIED DECUMENT.
C.	RETAIL TELECOMMUNICATIONS ROOMS (RTR): A RTR SERVES AS A HORIZONTAL CABLING DISTRIBUTION POINT FOR A GIVEN AREA. ITEMS WITHIN A RTR INCLUDE: 1. FLOOR MOUNTED RACK OR WALL MOUNTED-FLOOR SUPPORTED EQUIPMENT CABINET.		REQUIREMENT OF COMPLIANCE WITH INDUSTRY NORMS REFLECTED IN RECOGNIZED STANDARDS AND PRACTICES, AS WELL AS REQUIREMENTS BASED IN LAW. CURRENT GOVERNING CODES AND REGULATIONS AT A SITE LOCATION, AND THE MOST RECENT EDITION OF STANDARDS AND PRACTICES DOCUMENTS (INCLUDING ERRATA, ANNEXES, AND AMENDMENTS) MUST BE USED.
	 JPMC NETWORKING EQUIPMENT (SWITCHES). BACKBONE CABLING TERMINATIONS TO THE RMER. 		2. ASHRAE TC9.9 2011 THERMAL GUIDELINES FOR DATA PROCESSING ENVIRONMENTS
	 4. HORIZONTAL CABLING TERMINATIONS. 5. STRUCTURED CARLING RATHWAYS (LADDER RACKS AND FIRE RATED WALL SLEEVES). 		 BICSI TELECOMMUNICATIONS DISTRIBUTION METHODS MANUAL, (CURRENT EDITION) CAN/ULC S115, STANDARD METHOD OF FIRE TESTS OF FIRESTOPS SYSTEMS
	 6. TELECOMMUNICATIONS GROUNDING BUSBAR. 7. DEDICATED COOLING HURT 		 NFPA 70 NATIONAL ELECTRICAL CODE (CURRENT VERSION AS APPLICABLE TO SITE LOCATION) TIA 568.0.D - GENERIC TELECOMMUNICATIONS CABLING FOR CUSTOMER PREMISES
	 7. DEDICATED COOLING UNIT. 8. AUDIO/VIDEO EQUIPMENT TO SUPPORT DIGITAL SIGNAGE APPLICATIONS. 		 TIA 568.1.D - COMMERCIAL BUILDING TELECOMMUNICATIONS CABLING STANDARD TIA-568-C.2 - BALANCED TWISTED-PAIR TELECOMMUNICATIONS CABLING AND COMPONENTS STANDARDS
D.	STAND ALONE ATM: SMALL ROOM ADJOINING OR BEHIND THE FRONT OF THE ATMS AS A HORIZONTAL CABLING DISTRIBUTION POINT FOR A LIMITED AMOUNT OF CABLES (NO MORE THAN 24). ITEMS INCLUDE:		9. TIA 568.3.D - OPTICAL FIBER CABLING COMPONENTS STANDARD 10. TIA -569-C COMMERCIAL BUILDING STANDARD FOR TELECOMMUNICATIONS PATHWAYS AND SPACES
	 FLOOR MOUNTED RACK OR WALL MOUNTED-FLOOR SUPPORTED EQUIPMENT CABINET. JPMC NETWORKING FOUIPMENT (SWITCH) 		11. ANSI/TIA-EIA-569-D TELECOMMUNICATIONS PATHWAYS AND SPACES 12. TIA/EIA-606-C ADMINISTRATION STANDARD FOR COMMERCIAL TELECOMMUNICATIONS INFRASTRUCTURE
	 HORIZONTAL CABLING TERMINATIONS. STRUCTURED CABLING PATHWAYS (LADDER BACKS AND FIRE-RATED WALL SLEEVES) 		13. TIA-607 COMMERCIAL BUILDING GROUNDING (EARTHING) AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS
	 WIRED TELECOMMUNICATIONS SERVICE PROVIDER CABLING ENTRANCE, CABLING TERMINATIONS, AND EQUIPMENT. WIRELESS TELECOMMUNICATIONS SERVICE PROVIDER CABLING ENTRANCE, CABLING TERMINATIONS, AND EQUIPMENT. 		15. TIA/EIA-758-B CUSTOMER-OWNED OUTSIDE PLANT TELECOMMUNICATIONS CABLING STANDARD
	 WRELESS TELECOMMONICATIONS SERVICE PROVIDER CABLING ENTRANCE, CABLING TERMINATIONS, AND EQUIPMENT. 7. TELECOMMUNICATIONS MAIN GROUNDING BUSBAR. 		
	8. AUDIO/VIDEO EQUIPMENT TO SUPPORT DIGITAL SIGNAGE APPLICATIONS. 2 9. ACCESS CONTROL SYSTEM PANELS.	2.1 A.	COPPER AND FIBER OPTIC CABLING
	10. INTRUSION DETECTION SYSTEM PANELS. 11. ELECTRICAL PANEL		1. FOR UTP COPPER CABLING AND F/UTP COPPER CABLING, ALL MATERIAL SHALL BE MANUFACTURED BY COMMSCOPE SYSTIMAX AND THE CONTRACTOR SHALL BE AN AUTHORIZED COMMSCOPE UNIPRISE BUSINESS PARTNER (BP).
E.	TELECOMMUNICATIONS ENCLOSURE (TE): A TE SERVES AS A HORIZONTAL CABLING DISTRIBUTION POINT FOR A LIMITED AMOUNT OF CABLES (NO MORE THAN 24) FOR A GIVEN SMALL AREA AND <u>SHALL ONLY BE USED WHEN ABSOLUTELY NECESSARY WITH APPROVAL FROM</u> THE JPMC STRUCTURED CABLING ENGINEERING TEAM. A TE CONSISTS OF	Б	 FOR FIBER OPTIC CABLING, ALL MATERIAL SHALL BE MANUFACTURED BY CORNING AND THE CONTRACTOR SHALL BE CERTIFIED AS A CORNING PREFERRED INSTALLER (PI).
	MOUNTED OR WALL MOUNTED-FLOOR SUPPORTED EQUIPMENT CABINET. JPMC NETWORKING FOLUDMENT (SWITCH)	В.	 HORIZONTAL CABLING FOR ALL WIRELESS ACCESS POINTS AND IP-SECURITY CAMERAS UP TO 100M IN LENGTH SHALL BE CATEGORY 6A
	 JPMC NETWORKING EQUIPMENT (SWITCH). HORIZONTAL CABLING TERMINATIONS. 		2. HORIZONTAL CABLING FOR ALL NON-WIRELESS ACCESS POINTS AND NON-IP-SECURITY CAMERAS UP TO 100M IN LENGTH SHALL BE
	 WIRELESS TELECOMMUNICATIONS SERVICE PROVIDER CABLING ENTRANCE, CABLING TERMINATIONS, AND EQUIPMENT. TELECOMMUNICATIONS MAIN GROUNDING BUSBAR. 		3. HORIZONTAL CABLING FOR ALL HDBASE-T CONNECTIONS SHALL BE CATEGORY 6A F/UTP.
F	6. AUDIO/VIDEO EQUIPMENT TO SUPPORT DIGITAL SIGNAGE APPLICATIONS.	С	 HORIZONTAL CABLING FOR IP-SECURITY CAMERAS OVER 100M IN LENGTH SHALL BE OM3 MULTIMODE FIBER OPTIC CABLE. CABLE SUPPORT & PROTECTION
• •	1. ELECTRICAL PANELS.	0.	 WITHIN JPMC OWNED OR LEASED SPACES: ABOVE AN ACCESSIBLE CELLING: SUPPORTED BY EITHER I HOOKS OP A WIRE BASKET STYLE CABLE TRAY
	 PIRE ALARM PANELS. DOMESTIC WATER PIPING. 		 a. Above AN Accessible celeting: Supported by EnnerGinoors on A wire-basker strile cable that: b. ABOVE A HARD CEILING: WITHIN CONDUIT. a. Autours of Jone on the same of t
	 SANITARY WATER PIPING. HVAC PIPING UNLESS TO SUPPORT THE RMER/RTR COOLING UNIT. 		a. ABOVE AN ACCESSIBLE CEILING: WITHIN CONDUIT.
G	6. FIRE PROTECTION PIPING UNLESS TO SUPPORT THE RMER/RTR PER LOCAL CODES.		b. ABOVE A HARD CEILING: WITHIN CONDUIT.3. ANY REQUIRED JUNCTION AND/OR PULL BOXES LOCATED OUTSIDE OF JPMC OWNED OR LEASED SPACE SHALL BE PROVIDED WITH
0.	1. DOMESTIC WATER PIPING.	D	LOCKS OR TAMPER-PROOF SCREWS SO THAT THE CABLING IS INACCESSIBLE TO ANYONE OTHER THAN JPMC PERSONNEL.
	2. SANTARY WATER PIPING. 3. HVAC PIPING.	D.	1. THIS SPECIFICATION CONTAINS ALL PRODUCTS CURRENTLY APPROVED BY OWNER. CONTRACTOR SHOULD NOT ASSUME THAT MATERIALS LISTED IN THIS SPECIFICATION MUST BE INSTALLED MERELY BECAUSE THEY ARE LISTED IN THIS SPECIFICATION.
H.	 FIRE PROTECTION PIPING UNLESS TO SUPPORT THE TE PER LOCAL CODES. GUIDELINES FOR QUANTITY AND LOCATION OF CRITICAL TECHNOLOGY SPACES. 		PROJECT-SPECIFIC DETAIL ON REQUIRED MATERIALS IS FURTHER DEFINED IN THE ACCOMPANYING PROJECT DRAWINGS.
	 RMER: a. ONE PER FACILITY, CENTRALLY LOCATED AS MUCH AS POSSIBLE, TO SERVE UP TO 10,000 SQUARE FEET OF SPACE ON THE SAME3 	-AR1 3.1	I 3 - EXECUTION RMER, RTR, & STAND ALONE ATM DESIGN REQUIREMENTS
	FLOOR/LEVEL. 2. RTR:	A.	FOR SITE UTILITIES, ARCHITECTURAL, MECHANICAL, FIRE SUPPRESSION, ELECTRICAL, SECURITY, AND MORE STRUCTURED CABLING REQUIREMENTS SEE APPENDIX B
	 a. ONE PER ADDITIONAL FLOOR/LEVEL THAT THE RMER DOES NOT SERVE, CENTRALLY LOCATED AS MUCH AS POSSIBLE. b. ONE PER ADDITIONAL 10,000 SQUARE FEET THAT THE RMER DOES NOT SERVE. CENTRALLY LOCATED AS MUCH AS POSSIBLE FOR³ 	3.2	CONSTRUCTION PROGRESS CHECKLIST
	THE AREA SERVED.	A.	FOR A COMPREHENSIVE LIST OF ITEMS TO BE COMPLETED AT VARIOUS MILESTONES OF CONSTRUCTION, SEE APPENDIX A. THE
	a. ONLY TO BE USED WITHIN A STAND-ALONE ATM DESIGN (NON-STAFFED LOCATION WITH ONLY ONE OR TWO ATMS).		1. SHELL READY - CONSISTS OF GENERAL, MEP, & STRUCTURED CABLING CONSTRUCTION ITEMS.
1.5	DEFINITIONS/TERMINOLOGY/ABBREVIATIONS		 2. ROOM READT - CONSISTS OF GENERAL, MEP, SECURITY, & STRUCTURED CABLING CONSTRUCTION ITEMS. 3. PRODUCTION READY - CONSISTS OF SECURITY, & STRUCTURED CABLING CONSTRUCTION ITEMS.
A. P	AHJ: AUTHORITY HAVING JURISDICTION AS DEFINED BY THE CURRENT EDITION OF THE NATIONAL ELECTRICAL CODE.		4. WORKPLACE READY - CONSISTS OF GENERAL, MEP, FURNITURE, SECURITY, & STRUCTURED CABLING CONSTRUCTION ITEMS OUTSIDE OF THE RMER/RTR.
D.	CABLE LABELING, MAJOR CABLING PATHWAYS, AND RMER/RTR/TE LAYOUTS WITH RACK ELEVATIONS UPON JOB COMPLETION THAT REFLECTS CHANGES FROM THE PLANNED TO THE FINISHED STATE.		END OF SECTION
C.	CM: CONSTRUCTION MANAGER	T	ION 27 00 00
		IN	NTRODUCTORY STANDARD

E & COMPANY

IDARDS

STANDARDS

EQUIREMENTS

NE ATM DESIGN REQUIREMENTS



PART 1 - GENERAL

1.1 DESCRIPTION

A. THIS SPECIFICATION PROVIDES THE REQUIREMENTS FOR ALL STRUCTURED CABLING INSTALLATION CONTRACTORS.

1.2 INSTALLATION CONTRACTOR REQUIREMENTS

- A. CERTIFICATIONS/TRAINING
- THE CONTRACTOR MUST HAVE FIVE YEARS MINIMUM EXPERIENCE IN STRUCTURED CABLING INSTALLATIONS. 2. THE CONTRACTOR SHALL BE CONTRACTOR SHALL BE CERTIFIED BY THE MANUFACTURER OF THE SPECIFIED STRUCTURED CABLING IN ORDER TO PROVIDE THE MINIMUM TRENTY (20) YEAR EXTENDED PRODUCT AND APPLICATIONS ASSURANCE WARRANTY ON PARTS AND LABOR
- ASSOCIATED WITH THE UTP AND F/UTP CABLING INFRASTRUCTURE.
- DURING THE INSTALLATION OF STRUCTURED CABLING.
- B. UNION AFFILIATION

MAY INCLUDE, BUT NOT LIMITED TO, IBEW OR CWA.

1.3 APPROVED CONTRACTORS

- A. PREFERRED CABLING CONTRACTOR MASTER LIST 1. JPMC UTILIZES A LIST OF PRE-QUALIFIED CONTRACTORS TO PERFORM ALL STRUCTURED CABLING INSTALLATIONS. IN ORDER FOR A
- CONTAINED WITHIN THE PREFERRED CONTRACTOR MASTER LIST.
- B. SUBCONTRACTORS
- C. NEW CONTRACTOR PROBATION
- D. EXISTING CONTRACTOR PROBATION
- 1. AN EXISTING CONTRACTOR PROBATION EVENT OCCURS WHEN THE STRUCTURED CABLING DESIGN TEAM DETERMINES, IN THEIR SOLE DISCRETION, THAT THE CONTRACTOR HAS FAILED TO ADHERE TO INSTALLATION REQUIREMENTS AS DEFINED BY THE RETAIL STRUCTURED CABLING DESIGN STANDARD AND AFFILIATED DOCUMENTS. CONTRACTOR SHALL BE NOTIFIED IN WRITING REGARDING THE PROBATION EVENT, INCLUDING DETAILS OF THE EVENT, DATE OF THE EVENT, AND CONTACT INFORMATION FOR THE OPR THAT IS RESPONSIBLE FOR ADMINISTRATION OF THE PROBATION. EXISTING CONTRACTOR PROBATION PERIOD IS THE GREATER OF 1) 90 DAYS, AND 2) AFTER TWO OR MORE PROJECTS HAVE BEEN ACCEPTED VIA AN ON-SITE INSPECTION BY OPR, AND DEVIATIONS ASSOCIATED WITH THE PROBATION EVENT REMOVAL FROM THE PREFERRED CONTRACTOR LIST.
- E. OTHER CONTRACTOR CHANGES
- THE SOLE DISCRETION OF THE JPMC STRUCTURED CABLING TEAM AT ANY TIME, AND WITHOUT ADVANCE NOTICE BY JPMC. REASONS INCLUDE, BUT ARE NOT LIMITED TO:
- a. CONTRACTOR LOSS OF PROPER MANUFACTURER CERTIFICATION b. CONTRACTOR ASSESSMENT OF MACD (MOVE ADD CHANGE DISCONNECT) FEES. WHICH, IN THE SOLE JUDGMENT OF THE JPMC STRUCTURED CABLING TEAM, ARE DETERMINED TO BE CONSISTENTLY EXCESSIVE
- c. FALSIFYING TEST RESULTS. 2. UPON EXECUTION OF THIS CLAUSE, THE JPMC STRUCTURED CABLING TEAM MAY OR MAY NOT ISSUE NOTIFICATION TO CONTRACTOR REGARDING SAID REMOVAL.

1.4 OTHER CONTRACTOR REQUIREMENTS

- A. OMISSIONS
- SUPPORT OF ANY AND ALL MATERIALS OR SERVICES.
- B. CONTRACTOR ADVERTISING
- 1. CONTRACTOR SHALL NOT SOLICIT WRITTEN OR VERBAL TESTIMONIALS FROM JPMC PERSONNEL AT ANY TIME. CONTRACTOR SHALL NOT INSTALL OR POST IN JPMC PROPERTIES ANY FORM OF SIGNAGE THAT CONTAINS CONTRACTOR NAME, ADDRESS, TELEPHONE NUMBER, OR

PART 2 - PRODUCTS

2.1 GENERAL MATERIAL REQUIREMENTS

- A. NEW MATERIALS
 - LISTED WHERE SPECIFICALLY CALLED FOR, OR WHERE NORMALLY SUBJECT TO SUCH U.L. LABELING AND/OR LISTING SERVICES.
- B. EQUIVALENTS
- C. SUBSTITUTIONS
- 1. MATERIALS SHALL BE AS LISTED. NO SUBSTITUTIONS ARE ALLOWED WITHOUT WRITTEN CONSENT FROM THE JPMC STRUCTURED CABLING ENGINEERING TEAM. PROPOSALS FOR EQUIVALENT PRODUCTS MUST BE PRESENTED TO THE OPR VIA RFI'S, SUBMITTALS, AND/OR SHOP DRAWINGS. OPR WRITTEN APPROVAL IS REQUIRED BEFORE ANY SUBSTITUTIONS ARE MADE. MATERIALS MUST BE COMPATIBLE WITH THE END-TO-END SOLUTION BEING PROPOSED

2. LEAVING RMER OR RTR DOORS CLOSED AT ALL TIMES.

IN ACCORDANCE WITH SAID STANDARDS.

1. KEEPING THE RMER OR RTR FREE OF FOOD AND DRINK AT ALL TIMES.

PART 3 - EXECUTION

MEASURES:

3.2 DOCUMENTATION

END OF SECTION

2

3.1 PROTECTION OF PROPERTY

SECTION 27 05 00 - QUALITY ASSURANCE FOR STRUCTURED CABLING

A. UPON REQUEST BY JPMC, THE CONTRACTOR SHALL PROVIDE PROOF OF ANY CERTIFICATIONS, TRAINING, OR UNION AFFILIATIONS.

3. EMPLOYING HEPA VACUUM WHENEVER DRILLING, CUTTING, CORING, OR PERFORMING ANY WORK THAT WILL IMPACT AIR QUALITY. B. IT IS CONTRACTOR'S SOLE RESPONSIBILITY TO SECURE, READ AND UNDERSTAND ALL RELEVANT JPMC STANDARDS, AND EXECUTE INSTALLATIONS

REPLACE ANY DAMAGED CEILING TILES THAT ARE BROKEN DURING CABLE INSTALLATION. CONTRACTOR SHALL PROVIDE ALL PROTECTIVE DEVICES AND COVERINGS REQUIRED TO PROTECT AREAS ADJACENT TO THE WORK AREA. CONTRACTOR SHALL REPAIR DAMAGE TO AREAS ADJACENT TO THE WORK AREA AT NO COST TO THE OWNER, OR THE OWNER SHALL MAKE THE REPAIRS AND BACK CHARGE AGAINST THE TELECOM CONTRACTOR. CONTRACTOR SHALL ASSUME COMPLETE RESPONSIBILITY FOR DAMAGES TO THIRD PARTIES INCURRED AS A RESULT OF CONTRACTOR'S WORK IN THIS PROJECT. PROTECTION OF PROPERTY SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING PROTECTIVE

A. EXTREME CARE SHALL BE TAKEN BY CONTRACTOR TO PROTECT ALL COMPONENTS OF THE PROPERTY FROM DAMAGE. CONTRACTOR SHALL

1. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT ALL PRODUCTS INSTALLED AT THIS FACILITY ARE COMPATIBLE WITH THE APPLICATION. THE OWNER MAKES NO REPRESENTATION REGARDING THE ACCURACY OF THE PART NUMBERS LISTED.

1. ALL CABLE AND MATERIALS SHALL BE NEW, UNLESS PREVIOUSLY APPROVED IN WRITING BY OPR. NEW EQUIPMENT AND MATERIALS SHALL BE WITHOUT BLEMISH OR DEFECT. NEW EQUIPMENT AND MATERIALS SHALL BE UNDERWRITERS LABORATORIES, INC. (U.L.) LABELED AND/OR

LOGO. PHOTOGRAPHS WITHIN JPMC BUILDINGS INCLUDING TECHNOLOGY SPACES ARE STRICTLY PROHIBITED WITHOUT PRIOR APPROVAL OF JPMC IT RISK MANAGEMENT AND THE LOCAL JPMC SITE MANAGER. ALL REQUESTS SHALL BE SUBMITTED TO THE OPR FOR ROUTING.

1. CONTRACTOR OMISSION OF ANY REQUIREMENT DESCRIBED IN PROJECT DOCUMENTS SHALL NOT BE CONSTRUED AS TO RELIEVE CONTRACTOR OF ANY RESPONSIBILITY OR OBLIGATION REQUIRED TO AFFECT THE COMPLETE AND SATISFACTORY DELIVERY, OPERATION, AND

HAVE BEEN CORRECTED AND ACCEPTED IN WRITING BY OPR. CONTRACTOR SHALL BE IMMEDIATELY AND PERMANENTLY REMOVED FROM THE PREFERRED CONTRACTOR LIST IF A) TWO PROBATION EVENTS OCCUR IN ANY ROLLING 18-MONTH PERIOD. OR B) CONTRACTOR FAILS TO CORRECT DEVIATIONS FROM INSTALLATION REQUIREMENTS AS SPECIFIED IN THIS CLAUSE WITHIN 45 CALENDAR DAYS OF NOTIFICATION, OR C) CONTRACTOR HAS SUBCONTRACTED IN WHOLE OR IN PART A PROJECT WITHOUT PRIOR OWNER NOTIFICATION AND WRITTEN APPROVAL THEREOF, OR D) IN THE SOLE JUDGMENT OF OWNER, CONTRACTOR HAS FALSIFIED TEST RESULTS. CONTRACTOR SHALL BE NOTIFIED IN WRITING REGARDING PROBATION STATUS CHANGE, INCLUDING BUT NOT LIMITED TO PLACEMENT ON PROBATION, LIFTING OF PROBATION, AND 1. UPON UNANIMOUS VOTE BY THE STRUCTURED CABLING TEAM, CONTRACTOR MAY BE REMOVED FROM THE PREFERRED CONTRACTOR LIST AT

1. A CONTRACTOR THAT HAS BEEN ADDED TO THE PREFERRED CONTRACTOR LIST IS AUTOMATICALLY PLACED ON PROBATION. THE NEW CONTRACTOR PROBATION PERIOD IS THE GREATER OF 1) 90 DAYS, AND 2) AFTER TWO OR MORE PROJECTS HAVE BEEN ACCEPTED VIA AN ON-SITE INSPECTION BY OPR. THE NEW CONTRACTOR SHALL BE IMMEDIATELY AND PERMANENTLY REMOVED FROM THE PREFERRED CONTRACTOR LIST IF A) THE RESULTS OF AN ON-SITE INSPECTION ARE JUDGED BY THE INSPECTOR TO BE UNSATISFACTORY, OR B) UPON THE OCCURRENCE OF ONE PROBATION EVENT AS DEFINED UNDER EXISTING CONTRACTOR PROBATION IN THIS STANDARD. AT THE SUCCESSFUL CONCLUSION OF THE PROBATION PERIOD, THE NEW CONTRACTOR SHALL BE ADDED TO THE PREFERRED CONTRACTOR LIST.

1. JPMC STRUCTURED CABLING PROJECTS AS DEFINED BY THIS STANDARD SHALL ONLY BE IMPLEMENTED BY CONTRACTORS ON THE PREFERRED CABLING CONTRACTOR MASTER LIST. THE INSTALLATION CONTRACTORS ON THIS LIST SHALL NOT SUBCONTRACT WORK TO OTHERS WITHOUT PRIOR WRITTEN OPR APPROVAL. FAILURE TO COMPLY WITH THIS REQUIREMENT MAY RESULT IN REMOVAL FROM CONSIDERATION FOR FUTURE JPMC PROJECTS. CONTRACTOR SHALL EVALUATE STAFFING REQUIREMENTS FOR CONTEMPLATED JPMC PROJECTS, AND SUBMIT REQUEST FOR SAID OPR APPROVAL AT THE TIME THAT THEY TENDER THEIR INITIAL PROPOSAL.

CONTRACTOR TO PROVIDE PRICING FOR A STRUCTURED CABLING INSTALLATION PROJECT, THE CONTRACTOR MUST BE ON THIS LIST. 2. JPMC'S STRUCTURED CABLING DESIGN TEAM MAINTAINS THE PREFERRED CABLING CONTRACTOR MASTER LIST THAT IDENTIFIES CABLING CONTRACTORS THAT ARE PROPERLY AND TECHNICALLY QUALIFIED TO INSTALL PRODUCTS SPECIFIED WITHIN THIS STANDARD, HAVE THE FINANCIAL STRENGTH TO PERFORM PROJECTS WITHOUT DISRUPTIONS, AND HAVE A DOCUMENTED HISTORY OF SUCCESS IN PREVIOUS PROJECTS. THE STRUCTURED CABLING DESIGN TEAM IS THE SUBJECT MATTER EXPERT WITHIN JPMORGAN CHASE, REGARDING MATTERS INCLUDING, BUT NOT LIMITED TO QUALIFYING CERTIFIED CONTRACTORS. THE LIST IDENTIFIES IF A CONTRACTOR IS QUALIFIED TO PERFORM WORK IN OUR CORPORATE FACILITIES, AND/OR OUR RETAIL FACILITIES. GREAT CARE AND CONSTANT ATTENTION IS GIVEN TO THE MAINTENANCE OF THIS LIST, AND CONDITIONS FOR PROBATION AND ELIMINATION FROM OUR LIST BASED ON CONTRACTOR PERFORMANCE IS

3. THE CONTRACTOR SHALL BE A CORNING CERTIFIED CONTRACTOR IN ORDER TO PROVIDE A MINIMUM TWENTY (20) YEAR EXTENDED PRODUCT AND APPLICATIONS ASSURANCE WARRANTY ON PARTS AND LABOR ASSOCIATED WITH THE FIBER CABLING INFRASTRUCTURE. 4. THE CONTRACTOR MUST HAVE AT LEAST ONE EMPLOYEE THAT IS A BICSI CERTIFIED INSTALLER 1, INSTALLER 2, OR TECHNICIAN ON SITE

1. IF REQUIRED BASED ON THE LOCATION OF THE PROJECT, THE CONTRACTOR SHALL BE A MEMBER OF THE LOCALLY RECOGNIZED UNION. THIS

WORKPLACE & DATA CENTER SERVICES STRUCTURED CABLING ENGINEERING 1111 POLARIS PARKWAY, COLUMBUS, OHIO 43240

NEW RETAIL BRANCH **PRYOR RD. AND** LOWENSTEIN DR.

JPMORGAN CHASE & CO.

GLOBAL TECHNOLOGY INFRASTRUCTURE

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SECTION 27 05 00 - QUALITY ASSURANCE FOR STRUCTURED CABLING

SECTION 27 05 03 - TECHNOLOGY SPACE CLEANING

1.1 DESCRIPTION

- A. THIS SPECIFICATION PROVIDES THE REQUIREMENTS FOR FINAL CLEANING OF TECHNOLOGY SPACES, INCLUSIVE OF RETAIL MAIN EQUIPMENT ROOMS (RMERS), RETAIL TELECOMMUNICATIONS ROOMS (RTRS), AND STAND ALONE ATMS.
- 1.2 STANDARDS OF OPERATION
- A. CLEANING PERSONNEL ARE REQUIRED TO OBSERVE THE TECHNOLOGY ROOM STANDARDS OF OPERATIONS AT ALL TIMES. AT A MINIMUM, THIS INCLUDES: 1. NO FOOD OR DRINK IN THE ROOM
- 2. NO PROPPING TECHNOLOGY ROOM DOORS
- 3. NO INTERFERING WITH THE OPERATION OF TECHNOLOGY ROOM EQUIPMENT
- 4. NO UNAUTHORIZED/UN-BADGED PERSONNEL IN TECHNOLOGY ROOM
- B. WORKERS MUST WEAR CLOTHING THAT EASILY IDENTIFIES THEM AS MEMBERS OF THE CLEANING COMPANY
- C. DURING THE CLEANING, WORKERS ARE RESPONSIBLE FOR CONDUCTING THEMSELVES IN SUCH A MANNER AS TO PROTECT THE OWNER'S
- EQUIPMENT AND INFRASTRUCTURE AND TO AVOID CREATING HAZARDS FOR EMPLOYEES WHO ENTER THE WORK AREA. D. SIGNAGE OR SAFETY CONES SHOULD BE USED TO SURROUND OPEN FLOOR TILES, ELECTRICAL CORDS STRUNG ALONG THE FLOOR, AND ANY AREAS THAT ARE BEING DAMP-MOPPED.

PART 2 - PRODUCTS

- 2.1 APPROVED EQUIPMENT & MATERIALS
- A. THE CONTRACTOR WILL USE THE FOLLOWING APPROVED EQUIPMENT AND SUPPLIES:
- 1. TRIPLE-FILTRATION HIGH-EFFICIENCY PARTICULATE AIR (HEPA) OR S-CLASS VACUUMS, CAPABLE OF REMOVING 99.97 PERCENT OF PARTICLES 0.3 MICRONS OR LARGER.
- 2. CLEANING CHEMICALS THAT ARE PH NEUTRAL, STATIC DISSIPATIVE, AND APPROVED OR QUALIFIED BY COMPUTER HARDWARE
- MANUFACTURERS. 3. MATERIAL SAFETY DATA SHEETS MUST BE PROVIDED TO THE OWNER PRIOR TO PERFORMING WORK.
- 4. CANNED AIR.
- 5. LINT-FREE MOPS THAT ARE APPROVED OR QUALIFIED BY COMPUTER HARDWARE MANUFACTURERS. MOPS SHOULD HAVE NONMETAL HANDLES AND SEWN ENDS, TO PREVENT SNAGGING. MOP HEADS SHOULD HAVE LOOPED ENDS, NOT ENDS THAT ARE OPEN OR STRINGY OR BOTH
- 6. LINT-FREE, ANTISTATIC WIPES AND TOWELS THAT ARE APPROVED OR QUALIFIED BY COMPUTER HARDWARE MANUFACTURERS.
- 7. LOW-SPEED FLOOR SCRUBBING MACHINES. 8. ELECTRICAL CORDS THAT ARE IN GOOD CONDITION AND POSSESS APPROPRIATE GROUND CONFIGURATION.
- A STABLE STEPLADDER WITH NON-MARKING RUBBER FEET.

PART 3 - EXECUTION

- 3.1 EQUIPMENT CLEANING PROCEDURES
- A. A HEPA VACUUM WILL BE USED TO CLEAN THE HORIZONTAL SURFACES OF ALL EQUIPMENT.
- B. CLOTHS TREATED WITH ANTISTATIC PROPERTY CHEMICAL WILL BE USED TO WIPE DOWN ALL EXTERNAL SURFACES OF ALL CABINETS, POLYSTYRENE END-ROW SHEETS, SERVERS, NETWORKING DEVICES, AND STORAGE UNITS.
- C. CHEMICALS WILL NOT BE SPRAYED DIRECTLY ONTO EQUIPMENT
- D. KEYBOARDS WILL NOT BE TOUCHED DURING CLEANINGS.
- E. CLEANING ACTIVITIES SHOULD GENERALLY PROGRESS DOWNWARD FROM THE CEILING AND OUTWARD FROM THE ROOM'S AIR HANDLERS. 3.2 HIGH LEVEL CLEANING PROCEDURES
- A. ALL CABLE TRAYS, LADDER RACKS, UNISTRUT, BEAMS, ETC. TO BE BLOWN THROUGH WITH COMPRESSED AIR AND WIPED DOWN WITH APPROPRIATE CLOTHS AND CHEMICALS.
- 3.3 LOW LEVEL CLEANING PROCEDURES
- A. VACUUM SURFACE DUST AND PARTICLES FROM THE TOP OF ALL RACEWAYS AND CABLE TRAYS THAT ARE SECURED BELOW THE ROOM'S DECK OR CEILING.
- B. MAKE NOTE OF ANY UNUSUAL CONDITIONS--LOOSE BRACKETS, DAMAGED CABLE BUNDLES, CONDENSATION, AND SO ON--AND INCLUDE THEM IN THE FINAL REPORT TO BE PROVIDED TO THE CM AND OWNER.
- 3.4 CLEANING OF TECHNOLOGY CABINETS/RACKS
- A. WIPE DOWN THE EXTERNAL SURFACES OF ALL CABINETS USING LINT-FREE CLOTHS TREATED WITH ANTISTATIC CHEMICAL. AVOID DISTURBING PATCH CORDS OR POWER CABLES, TOUCHING KEYBOARDS, MOVING HARDWARE, OR SPRAYING CHEMICALS DIRECTLY ONTO EQUIPMENT.
- B. USE CANNED AIR TO DISLODGE DUST IN AREAS THAT CANNOT BE REACHED BY HAND.
- 3.5 FLOOR SURFACE CLEANING PROCEDURES
- A. WHEN CLEANING THE RAISED FLOOR, AVOID DISTURBING ANY CABLES THAT ARE ROUTED THROUGH THE NOTCHED OPENING OF FLOOR TILES.
- B. VACUUM SURFACE DUST AND PARTICLES FROM THE TOP OF ALL ACCESSIBLE PORTIONS OF THE FLOOR, INCLUDING BLANK, NOTCHED, AND PERFORATED FLOOR TILES.
- C. TREAT SMUDGES, STAINS, BLACK MARKS, AND SO ON, WITH AN APPROVED SOLUTION AND SCRUB WITH A MEDIUM-GRADE SCRUB PAD. USE AN APPROVED FLOOR MACHINE TO CLEAN ALL ACCESSIBLE PORTIONS OF THE FLOOR.
- D. LAST, MOP THE FLOOR WITH A DAMP--NOT WET--MOP USING CLEAN, WARM WATER. USE A TWO-BUCKET SYSTEM, ONE FOR MOPPING AND ONE FOR RINSING. CHANGE WATER FREQUENTLY IN BOTH BUCKETS.

END OF SECTION



SECTION 27 05 03 **TECHNOLOGY SPACE CLEANING**

SECTION 27 05 26 - GROUNDING AND BONDING FOR STRUCTURED CABLING

PART 1 - GENERAL

- 1.1 DESCRIPTION
- A. JPMC'S REAL ESTATE GROUP IS RESPONSIBLE FOR PROPER INSTALLATION OF A GROUNDING (EARTHING) BACKBONE THAT HAS BEEN DESIGNED AND INSTALLED IN ACCORDANCE WITH J-STD-607 OR EQUIVALENT REGIONAL STANDARD. IF SUCH GROUNDING (EARTHING) BACKBONE DOES NOT APPEAR TO BE IN PLACE, CONTRACTOR SHALL INFORM OPR, WHO WILL TAKE ACTION AS APPROPRIATE.
- B. ALL BONDING AND GROUNDING (EARTHING) SHALL TRACK METHODS AND PROCEDURES DESCRIBED IN J-STD-607 OR EQUIVALENT REGIONAL STANDARD.
- PART 2 PRODUCTS

2.1 MATERIALS

- A. COMPONENTS: SEE THE GROUNDING SCHEMATIC ON DRAWINGS FOR MANUFACTURERS AND PART NUMBERS.
- B. ALL GROUNDING/BONDING CONDUCTORS SHALL BE COPPER (NO ALUMINUM ALLOWED)
- PART 3 EXECUTION
- 3.1 SEE THE GROUNDING SCHEMATIC ON DRAWINGS FOR CONTRACTOR REQUIREMENTS

END OF SECTION

SECTION 27 05 26 - GROUNDING AND BONDING FOR STRUCTURED CABLING

PART 1 - GENERAL

- 1.1 DESCRIPTION
- SECTION.
- SECTION.

PART 2 - PRODUCTS 2.1 GENERAL MATERIAL REQUIREMENTS

A. ALL LABELS SHALL BE INDELIBLE, PRE-PRINTED (NOT HAND-WRITTEN), AND PERMANENT, USING BRADY PRINTER OR EQUIVALENT, ARIAL FONT OR EQUIVALENT. THE TEXT COLOR SHALL BE BLACK WITH A WHITE BACKGROUND, UNLESS AFFIXED ON A BLACK SURFACE, IN WHICH CASE THE LABEL BACKGROUND SHALL BE BLACK AND TEXT SHALL BE WHITE.

PART 3 - EXECUTION 3.1 SYSTEM DESCRIPTION

- 1. INFORMATION OUTLET FACEPLATES
- 2. HORIZONTAL CABLING
- 4. BACKBONE CABLING 5. FIBER PATCH PANELS
- 6. RACKS

- 3.2 INFORMATION OUTLET FACEPLATES
- DETAIL. DETAIL.
- 3.3 HORIZONTAL CABLING 1. NOMENCLATURE: X#Y##

- 3.4 BACKBONE CABLING

- WHERE # = RACK DESIGNATION.

- 3.5 FIBER PATCH PANELS
- 1. NOMENCLATURE: ZZ

3.6 RACKS

SECTION 27 05 53 - IDENTIFICATION FOR STRUCTURED CABLING

A. SYSTEM ACCEPTANCE SHALL BE WITHHELD UNTIL OPR HAS REVIEWED AND APPROVED ALL LABELING AS DEFINED ELSEWHERE IN THIS

B. IN CASES WHERE 100 PERCENT OF THE CABLING INFRASTRUCTURE IS NEW, ALL LABELING SHALL BE PERFORMED IN ACCORDANCE WITH THIS SECTION 27 05 53. IN CASES WHERE NEW INFRASTRUCTURE IS BEING ADDED TO AN EXISTING (LEGACY) INFRASTRUCTURE THAT FOLLOWS AN EARLIER VERSION JPMC CABLING STANDARD, CONTRACTOR SHALL FURNISH TO OPR A DETAILED DESCRIPTION OF DEVIATIONS FROM THE PREVAILING RETAIL STRUCTURED CABLING STANDARD, AND UPON OPR WRITTEN APPROVAL, FOLLOW INSTEAD THE LEGACY LABELING STANDARD.

C. BECAUSE THE CABLE INFRASTRUCTURE IS A COMPREHENSIVE, INTEGRATED DESIGN, PROPER AND COMPREHENSIVE LABELING IS CRITICAL. TO ENSURE THE SUCCESS OF THIS COMPONENT OF THE SYSTEM DESIGN, ALL LABELS SHALL BE FULLY COMPLIANT WITH THE REQUIREMENTS SET FORTH IN THIS SECTION. CONTRACTOR IS RESPONSIBLE FOR FURNISHING AND INSTALLING ALL LABELS AND LABEL HOLDERS AS SPECIFIED HEREIN.

D. ALL LABELS SHALL BE INSTALLED IN ACCORDANCE WITH INFORMATION CONTAINED IN PROJECT DRAWINGS AND AS SPECIFIED IN THIS

E. THIS SPECIFICATION SETS FORTH GENERAL REQUIREMENTS FOR INFRASTRUCTURE IDENTIFICATION, NOT SPECIFIC NUMBERING SCHEMES. BEFORE THE LABELING PROCESS BEGINS, CONTRACTOR SHALL SUBMIT A WRITTEN PLAN THAT INCLUDES SPECIFIC NUMBERING SEQUENCES FOR EACH TELECOMMUNICATIONS ELEMENT, AND SHALL NOT PROCEED WITH THE PLAN UNTIL OPR FURNISHES WRITTEN APPROVAL OF SAID PLAN WHICH MAY CONTAIN STANDARDS-BASED MODIFICATIONS.

A. THE FOLLOWING INFRASTRUCTURE COMPONENTS SHALL BE INCLUDED AND FULLY LABELED IN THE IDENTIFICATION SCHEMA:

3. COPPER PATCH PANELS

7. POWER DISTRIBUTION UNITS AND POWER STRIPS

8. IT EQUIPMENT ASSET TAGS 9. CONDUIT AND SLEEVE PATHWAYS

A. EACH INFORMATION OUTLET IDENTIFIER SHALL BE NUMBERED IN ACCORDANCE WITH THE FACEPLATE LABELING CONFIGURATION DETAIL, USING PAPER LABELS AND CLEAR WINDOWS INCLUDED WITH EACH APPROPRIATE INFORMATION OUTLET FACEPLATE. WHERE CLEAR WINDOWS ARE NOT APPLICABLE, CONTRACTOR SHALL COORDINATE A COMPLIANT LABEL THAT IS RESISTANT TO DAMAGE OR DEGRADATION OVER TIME (E.G. VINYL). TEXT HEIGHT AND POSITIONING SHALL BE IN ACCORDANCE WITH THE FACEPLATE LABELING CONFIGURATION

B. VOICE AND DATA OUTLETS SHALL BE LOCATED IN EACH FACEPLATE IN ACCORDANCE WITH THE FACEPLATE LABELING CONFIGURATION

A. LABELS TO BE AFFIXED AT EVERY USED PATCH PANEL AND ON EACH HORIZONTAL CABLE ON BOTH ENDS.

a. WHERE X = RMER/RTR DESIGNATION. USE "M" FOR RMER AND "T" FOR RTR.

b. WHERE # = RACK DESIGNATION (NUMERIC).

c. WHERE Y = A SINGLE SEQUENTIAL ALPHA CHARACTER, BEGINNING WITH "A", IDENTIFYING THE PATCH PANEL

d. WHERE ## = TWO-DIGIT SEQUENTIAL NUMBER BEGINNING WITH "01", IDENTIFYING PATCH PANEL PORT NUMBER

B. COPPER PATCH PANEL PORT IDENTIFICATION SHALL BE FULLY COMPLIANT WITH THE FACEPLATE LABELING CONFIGURATION DETAIL

C. IF LABEL IS AFFIXED TO A BLACK OR DARK GRAY SURFACE, LABEL INFORMATION SHALL BE WHITE IN COLOR. IF LABEL IS AFFIXED TO BEIGE OR LIGHT-COLORED SURFACE, LABEL INFORMATION SHALL BE BLACK IN COLOR.

D. COPPER PATCH PANEL LABELS SHALL EMPLOY MANUFACTURER-SUPPLIED LABELING MATERIALS AND COVERS (IF APPLICABLE), AFFIXED TO EACH PANEL IN ACCORDANCE WITH MANUFACTURER SPECIFICATIONS.

E. COPPER PATCH PANEL LABELS SHALL BE WHITE IN COLOR.

A. THE CABLE SHALL BE LABELED ON BOTH ENDS.

B. NOMENCLATURE: SOURCE = X-#-ZZ AND DESTINATION = X-Y-ZZ-##/##-TTT

1. WHERE X = RMER OR RTR DESIGNATION.

3. WHERE ZZ = PATCH PANEL DESIGNATION (RACK UNIT # FROM UPPER LEFT CORNER WHEN PANEL IS INSTALLED).

4. WHERE ##/## = STARTING STRAND NUMBER/END STRAND NUMBER.

5. WHERE TTT = FIBER TYPE, OM2, OM3, OR OM4 FOR MULTIMODE OR OS2 FOR SINGLE MODE.

C. WHERE ROUTE DIVERSITY IS EMPLOYED DESIGNATION STRIPS LOCATED ON TERMINATION PANELS FOR EACH ROUTE SHALL BE OF DISTINCTLY DIFFERENT COLORS.

A. THE PATCH PANEL SHALL BE LABELED ON THE FRONT DOOR.

a. WHERE ZZ = PATCH PANEL DESIGNATION (RACK UNIT # FROM THE UPPER LEFT CORNER WHERE THE PANEL IS INSTALLED.

b. WITHIN THE PATCH PANEL (BEHIND THE FRONT DOOR).

c. NOMENCLATURE: SOURCE = X-#-ZZ AND DESTINATION = ZZ-##/##-TTT

d. WHERE X = RMER DESIGNATION, WHICH IS "M".

e. WHERE # = RACK DESIGNATION.

f. WHERE ZZ = PATCH PANEL DESIGNATION (RACK UNIT # FROM UPPER LEFT CORNER WHEN PANEL IS INSTALLED).

g. WHERE ##/## = STARTING STRAND NUMBER/END STRAND NUMBER. h. WHERE TTT = FIBER TYPE, OM2, OM3, OR OM4 FOR MULTIMODE OR OS2 FOR SINGLE MODE.

A. LABELS TO BE AFFIXED TO TOP FRONT AND TOP REAR OF RACK

1. NOMENCLATURE: X#

a. WHERE X = RMER/RTR DESIGNATION, USE "M" FOR RMER AND "T" FOR RTR.

b. WHERE # = RACK DESIGNATION (NUMERIC) c. TYPE: 1.5 IN. (38 MM) TEXT; MACHINE PRINTED TEXT. BLACK TEXT ON WHITE BACKGROUND.

> SECTION 27 05 53 IDENTIFICATION FOR STRUCTURED CABLING 5

- 3.7 POWER DISTRIBUTION UNITS AND POWER STRIPS
- 3.8 IT EQUIPMENT ASSET TAGS

- 3.9 CONDUIT AND SLEEVE PATHWAYS
- A. CONDUIT PATHWAY LABELING SHALL BE LABELED AS FOLLOWS.
- B. SLEEVE PATHWAY LABELING SHALL BE LABELED AS FOLLOWS. 2. NOMENCLATURE <SIZE>.<PATHWAY TYPE>. EXAMPLE: 4" SLEEVE

A. POWER DISTRIBUTION UNITS AND STRIPS SHALL BE LABELED WITH THE BREAKER PANEL ID AND CIRCUIT NUMBER IT IS SERVED FROM.

A. ALL POWERED IT EQUIPMENT, ASIDE FROM AUDIO-VISUAL OR CARRIER EQUIPMENT MUST BE LABELED WITH THE DEVICES HOSTNAME AND A YELLOW ASSET TAG ON THE FRONT (COLD AISLE) SIDE OF THE DEVICE. A MACHINE GENERATED LABEL INDICATING THE SERIAL NUMBER OF THE DEVICE SHALL ALSO BE PLACED ON THE FRONT (COLD AISLE) SIDE OF THE DEVICE. ALL RACKS MUST HAVE A YELLOW ASSET TAG AT THE TOP FRONT IN A VISIBLE AREA THAT CAN BE EASILY ACCESSED WITH A BARCODE SCANNER.

B. THESE ASSET TAGS WILL BE PROVIDED BY SOMEONE OTHER THAN THE STRUCTURED CABLING CONTRACTOR.

1. 1.5 IN. (38 MM) TALL TEXT PLACED IN VISIBLE LOCATION ON PLASTIC BUSHING OR ON THE CONDUIT ITSELF NEAR THE END. 2. NOMENCLATURE <SIZE>.<PATH A/B>TO<DISTANT END ROOM ID>. EXAMPLE: 4" A TO I-1

1. 1.5 IN. (38 MM) TALL TEXT PLACED IN VISIBLE LOCATION ON PLASTIC BUSHING OR ON THE SLEEVE ITSELF NEAR BOTH ENDS.

END OF SECTION



JPMORGAN CHASE & CO

GLOBAL TECHNOLOGY INFRASTRUCTURE

SECTION 27 05 28 - PATHWAYS FOR STRUCTURED CABLING

PART 1 - GENERAL

1.1 DESCRIPTION

- A. THIS SECTION SPECIFIES TECHNOLOGY INFRASTRUCTURE EQUIPMENT INCLUDING THE FOLLOWING
- 1. J-HOOKS.
- 2. CONDUITS AND BOXES
- 3. INNERDUCT
- PULL BOXES.
- 5. FIRE-RATED SLEEVES.
- MISC. ACCESSORIES.
- PART 2 PRODUCTS

2.1 GENERAL MATERIAL REQUIREMENTS

- A. NEW MATERIALS
- 1. ALL CABLE AND MATERIALS SHALL BE NEW, UNLESS PREVIOUSLY APPROVED IN WRITING BY OPR. NEW EQUIPMENT AND MATERIALS SHALL BE WITHOUT BLEMISH OR DEFECT. NEW EQUIPMENT AND MATERIALS SHALL BE UNDERWRITERS LABORATORIES, INC. (U.L.) LABELED AND/OR LISTED WHERE SPECIFICALLY CALLED FOR, OR WHERE NORMALLY SUBJECT TO SUCH U.L. LABELING AND/OR LISTING SERVICES.
- B. EQUIVALENTS
- 1. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT ALL PRODUCTS INSTALLED AT THIS FACILITY ARE COMPATIBLE WITH THE APPLICATION. THE OWNER MAKES NO REPRESENTATION REGARDING THE ACCURACY OF THE PART NUMBERS LISTED.
- C. SUBSTITUTIONS
- 1. MATERIALS SHALL BE AS LISTED. NO SUBSTITUTIONS ARE ALLOWED WITHOUT WRITTEN CONSENT FROM THE JPMC STRUCTURED CABLING ENGINEERING TEAM. PROPOSALS FOR EQUIVALENT PRODUCTS MUST BE PRESENTED TO THE OPR VIA RFI'S. SUBMITTALS. AND/OR SHOP DRAWINGS. OPR WRITTEN APPROVAL IS REQUIRED BEFORE ANY SUBSTITUTIONS ARE MADE. MATERIALS MUST BE COMPATIBLE WITH THE END-TO-END SOLUTION BEING PROPOSED.
- D. FIRE RATING
- 1. INNERDUCT SHALL BE RATED FOR THE PURPOSE. INNERDUCT LISTED IN THIS SECTION IS NOT PLENUM RATED. CONTRACTOR SHALL EXERCISE DILIGENCE IN ENSURING THAT THE INNERDUCT INSTALLED MEETS THE REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION.
- 2. LOCAL OR NATIONAL CODES MAY OR MAY NOT REQUIRE PLENUM OR LOW SMOKE ZERO HALOGEN IN SOME APPLICATIONS. IT IS CONTRACTOR'S RESPONSIBILITY TO INSTALL MATERIALS THAT ARE APPROPRIATE TO THE ENVIRONMENT. IF CONTRACTOR INSTALLS INNERDUCT OR SOFT DUCT THAT IS INAPPROPRIATE TO THE ENVIRONMENT (E.G. PLENUM-RATED IN SPACES THAT DO NOT REQUIRE PLENUM, OR NON-PLENUM-RATED IN SPACES THAT REQUIRE PLENUM), CONTRACTOR SHALL BE EXPECTED TO REMOVE THE INAPPROPRIATE INNERDUCT OR SOFT DUCT AND INSTALL APPROPRIATE INNERDUCT OR SOFT DUCT AT THEIR SOLE EXPENSE.

2.2 J-HOOKS

- A. REQUIREMENTS:
- ABOVE ALL ACCESSIBLE CEILINGS, J-HOOKS ARE REQUIRED FOR PROPER CABLE SUPPORT.
- 2. J-HOOKS SHALL BE SPECIFICALLY DESIGNED FOR INTERIOR USE WITH DATA CABLES.
- 3. J-HOOKS SHALL BE PROVIDED AS REQUIRED WITH ALL THE MANUFACTURER'S RECOMMENDED INSTALLATION HARDWARE FOR THE INSTALLATION APPLICATION.
- 4. APPROVED J-HOOK MANUFACTURERS ARE COOPER, CADDY, OR PANDUIT.
- B. SEE THE OPEN CABLE SUPPORT DETAIL ON THE CONSTRUCTION DRAWINGS FOR MANUFACTURERS AND PART NUMBERS FOR J-HOOK MOUNTING COMPONENTS.

2.3 CONDUITS AND BOXES

- A. CONDUIT
- 1. ALL WIRING IN THE BUILDING INTERIOR, INCLUDING HORIZONTAL DISTRIBUTION, VERTICAL RISER CONDUITS AND AUXILIARY WIRING MAY BE RUN IN EMT CONDUIT UNLESS OTHERWISE SPECIFIED. CONDUIT SIZES LARGER THAN 4" SHALL BE RIGID METALLIC CONDUI
- 2. EMT SHALL NOT BE USED IN POURED CONCRETE, UNDERGROUND, IN UTILITY TUNNELS OR EXPOSED IN MECHANICAL EQUIPMENT ROOM BELOW 48".
- 3. ALL EMT CONNECTORS AND COUPLINGS SHALL BE OF THE SETSCREW TYPE. ALL FITTINGS SHALL BE STEEL. NO DIE CAST FITTINGS WILL BE ALLOWED.
- B. BOXES
- 1. THE OUTLET BACKBOXES SHALL BE 5" SQUARE BY 2.875" DEEP WITH A SINGLE GANG REDUCER AND INTEGRAL CABLE MANAGEMENT THE DEPTH OF THE RAISED SINGLE GANG REDUCER SHALL BE DETERMINED BY THE THICKNESS OF THE WALL MATERIAL THAT THE OUTLET BOX WILL BE INSTALLED WITHIN. THE CONTRACTOR SHALL COORDINATE THIS DIMENSION WITH THE GENERAL CONTRACTOR.
- 2. SEE THE SYMBOLS LIST ON THE CONSTRUCTION DRAWINGS FOR MANUFACTURERS AND PART NUMBERS.
- 2.4 INNERDUCT
- A. INNERDUCT IS A NONMETALLIC RACEWAY PLACED WITHIN A LARGER RACEWAY. FOR THE PURPOSES OF THIS SECTION, FOR THIS PROJECT FABRIC INNERDUCT SHALL BE USED. HARD SIDED INNERDUCT SHALL NOT BE USED UNLESS PERMISSION IS EXPLICITLY PROVIDED BY THE STRUCTURED CABLING ENGINEER. IF MULTIPLE CABLES ARE TO BE PULLED THROUGH A SINGLE INNERDUCT CELL, THEY SHOULD BE PULLED AT THE SAME TIME. FABRIC INNERDUCT PROVIDES MULTIPLE SLEEVES WITHIN CONDUITS AND EMPTY CELLS SHOULD BE PROVIDED FOR FUTURE GROWTH.
- 1. FABRIC INNERDUCT SHALL BE INSTALLED WITHIN CONDUIT.
- 2. CONTRACTOR SHOULD COORDINATE A SITE VISIT FROM THE FABRIC INNERDUCT MANUFACTURER TO OVERSEE THE INSTALLATION WHEN 1) THE CONTRACTOR HAS NEVER UTILIZED THIS PRODUCT IN THE PAST; OR 2) WHEN THE AGGREGATE LENGTH OF THE INSTALLATION EXCEEDS 1,500 M (5,000 FT.).
- B. FABRIC INNERDUCT SIZING
- 1. THE FABRIC INNERDUCT SHALL BE SIZED FOR THE CONDUIT IT IS BEING INSTALLED WITHIN.
- C. FABRIC INNERDUCT
- 1. STANDARD OUTDOOR FABRIC INNERDUCT: MICRO (33MM), 2-INCH, 3-INCH AND 4-INCH SINGLE OR MULTI-CELL POLYESTER/NYLON FABRIC INNERDUCT CONTAINING 1250 LB. POLYESTER FLAT WOVEN PULL TAPE.
- 2. DETECTABLE OUTDOOR FABRIC INNERDUCT: MICRO (32MM), 2-INCH, 3-INCH AND 4-INCH SINGLE OR MULTI-CELL POLYESTER/NYLON FABRIC INNERDUCT CONTAINING 1250 LB. POLYESTER FLAT WOVEN PULL TAPE, AND A SOLID COPPER, POLYVINYL COLOR COATED CONDUCTOR (19AWG MINIMUM) FOR TRACING AND RATED FOR A MINIMUM OF 6 AMPS AND 600 VOLTS. CONDUCTOR SHALL BE PLACED IN THE SIDEWALL EDGE FOLD OF THE TEXTILE SLEEVE. DETECTABLE FABRIC INNERDUCT SHALL BE UTILIZED WHEN RUNNING FIBER OPTIC CABLING WITHIN NON-METALLIC UNDERGROUND CONDUITS.
- 3. INDOOR FABRIC INNERDUCT (RISER-LISTED): MICRO (32MM), 2-INCH, 3-INCH AND 4-INCH SINGLE OR MULTI-CELL NYLON FABRIC INNERDUCT CONTAINING 1250 LB. POLYESTER FLAT WOVEN PULL TAPE WHICH MEETS UL2024A FOR FLAME PROPAGATION AND SMOKE DENSITY VALUES FOR GENERAL APPLICATIONS.
- 4. PLENUM-LISTED FABRIC INNERDUCT: MICRO (32MM), 2-INCH AND 3-INCH SINGLE OR MULTI-CELL NYLON FABRIC INNERDUCT CONTAINING 200LB NYLON-RESIN FLAT WOVEN PULL TAPE WHICH MEETS UL2024A FOR FLAME PROPAGATION AND SMOKE DENSITY VALUES FOR USE IN AIR HANDLING SPACES.
- D. FABRIC INNERDUCT FITTINGS
- 1. CONDUIT PLUGS: COMPRESSION-TYPE CONDUIT PLUGS WITH LOCKING NUTS FOR SEALING AND SECURING ONE OR MORE FABRIC INNERDUCTS WITHIN A 4-INCH INSIDE DIAMETER CONDUIT, E.G.: a. 4-INCH PLUG WITH NINE HOLES FOR CABLES IN A 3 PACK (9-CELL) CONFIGURATION
- 2. TERMINATION BAGS: INFLATION-TYPE BAGS FOR SEALING AND SECURING AROUND ONE OR MORE FABRIC INNERDUCTS AND CABLES WITHIN 2-INCH OUTSIDE DIAMETER OR LARGER CONDUIT.

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D. PULL BOXES SHALL COMPLY WITH NEMA STANDARDS TYPE 1

- 2.6 FIRE-RATED SLEEVES

- CABLES.

- SLEEVES.
- CABLES. K. COMPONENTS

- A. PULL STRING
- B. PULL TAPE
- C. PENETRATION SEALING MATERIALS
- PART 3 EXECUTION

- 3.2 CONDUIT AND BOXES
- CONNECTORS.

 - BUILDING.
- REPAIRS.

- 3.3 PULL BOXES

- THE PULL BOX.

2.5 PULL BOXES

A. PULL BOXES SHALL BE MANUFACTURED FOR USE AS A JUNCTION BOX AND PULL BOX IN COMMERCIAL AND GENERAL INDUSTRIAL APPLICATIONS.

B. COVERS SHALL BE SECURED TO THE ENCLOSURE BODY WITH PLATED SCREWS THROUGH KEYHOLE SLOTS PROVIDED IN THE COVER.

C. FINISH SHALL BE A PHOSPHATE UNDERCOAT WITH ANSI 61 GRAY ACRYLIC FINISH.

E. PULL BOXES SHALL BE PROVIDED IN THE SIZES AS INDICATED ON THE PLANS. PULL BOXES SHALL HAVE HOLES PUNCHED OR CORED THROUGH THE ENCLOSURE BODY TO PROVIDE ACCESS INTO THE ENCLOSURE FOR THE CONDUITS INDICATED ON THE PLANS.

A. CABLES PASSING THROUGH RMER/RTR FLOORS OR WALLS SHALL PASS THROUGH FIRE-RATED WIRING DEVICES WHICH CONTAIN AN INTUMESCENT INSERT MATERIAL THAT ADJUSTS AUTOMATICALLY TO CABLE ADDITIONS OR SUBTRACTIONS. B. THE DEVICE (PER CODE REQUIREMENTS) SHALL INCLUDE BOTH INTERNAL AND EXTERNAL FIRESTOPPING.

C. CABLES PENETRATING THROUGH RMER/RTR FLOORS OR WALLS SHALL UTILIZE FIRE-RATED PATHWAY DEVICES CAPABLE OF PROVIDING AN F RATING EQUAL TO THE RATING OF THE BARRIER IN WHICH THE DEVICE IS INSTALLED.

D. THE DEVICE SHALL BE TESTED FOR SMOKE LEAKAGE (L RATING) AND SHALL NOT REQUIRE THE USE OF ANY OPTIONAL SEALING MATERIALS TO ACHIEVE THE PUBLISHED RATING.

E. THE DEVICE SHALL UTILIZE A FIRE AND SMOKE SEALING SYSTEM THAT AUTOMATICALLY ADJUSTS TO THE ADDITION OR REMOVAL OF

F. WIRE DEVICES SHALL BE OF A SUFFICIENT SIZE TO ACCOMMODATE THE QUANTITY AND SIZE OF DATA CABLES REQUIRED AND SHALL BE SUITABLE FOR USE WITH NEW OR EXISTING CABLE INSTALLATIONS.

G. THE INSTALLED DEVICE (IN NORMAL USE) SHALL REQUIRE NO MAINTENANCE AND SHALL ACCOMMODATE FUTURE CABLE CHANGES WITHOUT MECHANICAL ADJUSTMENT AND/OR REMOVAL OR REPLACEMENT OF PROTECTIVE MATERIALS. H. WIRE DEVICES TO BE PROVIDED WITH STEEL WALL PLATES ALLOWING FOR SINGLE OR MULTIPLE DEVICES TO BE GANGED TOGETHER.

I. THE DEVICE SHALL BE MODULAR AND SHALL PROVIDE MECHANICAL INSTALLATION OPTIONS FOR COMMON WALL AND FLOOR CONSTRUCTIONS AS WELL AS COMMON CONSTRUCTION CONDITIONS INCLUDING OVER-SIZED OR DAMAGED OPENINGS OR EXISTING

J. INSTALL RADIUS CONTROL MODULES (RCM) ON ALL HORIZONTAL DEVICES. THE RCM'S PROVIDE A 1" MINIMUM BENDING RADIUS FOR

WALL OR FLOOR SLEEVES: SPECIFIED TECHNOLOGIES INC. EZ-PATH SERIES

CABLE RADIUS CONTROL WATERFALLS: SPECIFIED TECHNOLOGIES INC. RCM SERIES

2.7 MISCELLANEOUS ACCESSORIES

1. PULL STRINGS: CONSTRUCTED OF SYNTHETIC FIBER.

1. PULL TAPE: MEASURING AND PULLING TAPE CONSTRUCTED OF SYNTHETIC FIBER, PRINTED WITH ACCURATE SEQUENTIAL FOOTAGE MARKS. COLOR-CODED.

1. DUCT WATER SEAL: PRODUCTS SUITABLE FOR CLOSING UNDERGROUND AND ENTRANCE CONDUIT OPENINGS WHERE INNERDUCT OR CABLE IS INSTALLED, TO PREVENT ENTRY OF GASES, LIQUIDS, OR RODENTS INTO THE STRUCTURE.

3.1 HANGERS AND SUPPORTS

A. J-HOOKS SHALL BE INSTALLED WITHIN (1) ONE FOOT OF THE BUSHED CONDUIT ENDS STUBBED ABOVE THE CEILING AND WITHIN (1) ONE FOOT OF ANY BEND GREATER THAN 60 DEGREES.

B. J-HOOKS SHALL BE INSTALLED WITH A MAXIMUM CENTER TO CENTER DISTANCE OF (4) FOUR FEET. C. ALL J-HOOKS SHALL BE ATTACHED SECURELY TO THE CEILING JOISTS OR CONCRETE DECK ABOVE UTILIZING THE MANUFACTURER'S RECOMMENDED HARDWARE AND INSTALLATION PRACTICES. CONTRACTOR SHALL UTILIZE UNISTRUT AND THREADED ROD ASSEMBLIES TO MAINTAIN THE (4) FOUR-FOOT CENTER TO CENTER REQUIREMENT BETWEEN CEILING JOIST MEMBERS AS REQUIRED

A. ALL CONDUITS ENTERING CABINETS, PULL BOXES, JUNCTION BOXES OR OUTLET BOXES SHALL BE SECURED WITH SET-SCREW TYPE BOX

B. THE ENDS OF ALL CONDUITS UTILIZED FOR COMMUNICATIONS CABLING SHALL BE PROVIDED WITH NYLON PUSH-ON BUSHINGS AND A PULL STRING PROVIDED THROUGHOUT.

C. EXTERIOR CONDUITS FOR TELECOMMUNICATIONS SERVICE PROVIDERS (CARRIERS) SHALL HAVE A PULL TAPE INSTALLED BY THE ELECTRICAL CONTRACTOR.

D. ALL EXTERIOR CONDUITS SHALL BE SEALED AT THE OPENING WITHIN THE BUILDING BY THE ELECTRICAL CONTRACTOR.

E. ALL CONDUIT RUNS SHALL HAVE A MAXIMUM OF TWO (2) 90-DEGREE BENDS PER CONDUIT RUN. WHEN MORE BENDS ARE NECESSARY IN A SINGLE RUN A PULL BOX SHALL BE INSTALLED. PULL BOXES SHALL NOT BE INSTALLED IN PLACE OF A 90-DEGREE BEND. PULL BOXES SHALL ALSO BE INSTALLED IN LONG RUNS AT A MAXIMUM SEPARATION OF 100'.

F. ALL CONDUITS, EXCEPT IN CONCRETE SLAB OR EARTH, SHALL BE ROUTED PARALLEL AND PERPENDICULAR TO THE COLUMN LINES OF THE

G. CONDUITS THAT ARE NOT INSTALLED PLUMB AND ROUTED PERPENDICULAR TO THE STRUCTURAL COLUMN SUPPORTS OF THE BUILDING WILL NOT BE ACCEPTED.

H. UNLESS OTHERWISE NOTED, ALL CONDUITS SHALL BE RUN CONCEALED WITHIN THE BUILDING CONSTRUCTION WHEN INSTALLED IN FINISHED INTERIOR OR EXTERIOR AREAS.

I. ALL CONDUITS SHALL BE SUBSTANTIALLY SUPPORTED BY USE OF PIPE STRAPS, SUITABLE CLAMPS OR HANGERS ATTACHED TO ELEMENTS OF THE BUILDING STRUCTURE TO PROVIDE A RIGID INSTALLATION. UNDER NO CIRCUMSTANCE SHALL CONDUIT BE ATTACHED OR SUPPORTED FROM ADJOINING PIPE OR INSTALLED IN SUCH A MANNER AS TO PREVENT THE READILY REMOVAL OF OTHER PIPE FOR

J. UNLESS OTHERWISE NOTED, INSTALL ALL OUTLET BOXES VERTICALLY.

K. INSTALL OUTLET BOXES AT THE MOUNTING HEIGHTS INDICATED ON THE PLANS. COMMUNICATION OUTLET BOXES ADJACENT TO ELECTRIC OUTLETS SHALL BE INSTALLED AT THE SAME MOUNTING HEIGHT. ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER PRIOR TO ROUGH-IN.

A. PULL BOXES SHALL BE PROVIDED IN THE SIZES AS INDICATED ON THE PLANS.

B. PULL BOXES SHALL HAVE HOLES PUNCHED OR CORED THROUGH THE ENCLOSURE BODY TO PROVIDE ACCESS INTO THE ENCLOSURE FOR THE CONDUITS INDICATED ON THE PLANS.

C. ALL CONDUITS ENTERING THE PULL BOX SHALL BE SECURED WITH SET-SCREW TYPE BOX CONNECTORS.

D. PULL BOXES SHALL BE INSTALLED IN SUCH A MANNER THAT PROVIDES EASY ACCESS INTO THE INSTALLED ENCLOSURE THROUGH THE REMOVABLE COVER.

E. UNDER NO CIRCUMSTANCE SHALL A PULL BOX BE INSTALLED WITH THE COVER FACING UP. UNLESS CONDUITS ENTERING THE BOX MUST BE STACKED VERTICALLY, ALL PULL BOXES SHALL BE INSTALLED WITH THE COVER FACING DOWN.

F. PULL BOX LOCATIONS SHALL BE COORDINATED WITH OTHER TRADES TO PROVIDE ADEQUATE CLEARANCE BETWEEN THE PULL BOX COVER AND ANY OTHER OBJECT. THE MINIMUM CLEARANCE REQUIRED SHALL BE SIX TIMES THE DIAMETER OF THE LARGEST CONDUIT ENTERING

END OF SECTION

SECTION 27 05 28 PATHWAYS FOR STRUCTURED CABLING

PART 1 - GENERAL

- 1.1 DESCRIPTION
- A. THIS SECTION INCLUDES RMER/RTR EQUIPMENT RACKS, CABLE MANAGERS, LADDER RACKS, POWER DISTRIBUTION UNITS, PLYWOOD BACKBOARDS, AND ASSOCIATED COMPONENTS.
- B. THIS SPECIFICATION CONTAINS ALL PRODUCTS CURRENTLY APPROVED BY JPMC. THE CONTRACTOR SHOULD NOT ASSUME THAT ALL OF THE MATERIALS LISTED IN THE SPECIFICATIONS MUST BE INSTALLED BECAUSE THEY ARE LISTED IN THE SPECIFICATION. PROJECT-SPECIFIC REQUIRED MATERIALS ARE FURTHER DEFINED IN THE PROJECT CONSTRUCTION DRAWINGS.

PART 2 - PRODUCTS

- 2.1 REQUIREMENTS
- A. IN LOCATIONS THAT REQUIRE SEISMIC BRACING, CONSULT WITH THE OPR FOR GUIDANCE AND PRODUCT REQUIREMENTS.
- RACK.
- AND ONE 10" VERTICAL CABLE MANAGER BETWEEN RACKS.
- 2.2 MATERIALS
- AND PART NUMBERS FOR THE FOLLOWING EQUIPMENT:
- 1. EQUIPMENT RACK AND ASSOCIATED COMPONENTS 2. CABLE MANAGEMENT - RACK MOUNTED
- 3. LADDER RACK AND ASSOCIATED COMPONENTS
- 4. POWER DISTRIBUTION UNITS (PDUS) FOR RMERS AND RTRS
- 5. POWER DISTRIBUTION UNITS (PDUS) FOR STAND ALONE ATM LOCATIONS
- 6. EQUIPMENT CABINET AND ASSOCIATED COMPONENTS 7. CABLE MANAGEMENT - CABINET MOUNTED
- 8. POWER STRIPS FOR WALL MOUNTED CABINETS

B. PLYWOOD BACKBOARDS

1. PROVIDE VOID-FREE, FIRE-RATED PLYWOOD MOUNTED VERTICALLY ON THE WALL. PLYWOOD BOARDS SHALL BE 3/4" THICK, 8' TALL, AND WIDTH AS SHOWN ON THE PLANS TO FIT THE ROOM.

PART 3 - EXECUTION

3.1 INSTALLATION

- BONDING INFORMATION.
- BOLTED TOGETHER.
- THE TRAY.
- MM (12 IN) BEING PREFERRED
- F. METALLIC CABLE TRAY MUST BE COMPLIANT WITH THE NEMA VE-1 STANDARD. INSTALLATION SHOULD FOLLOW THE GUIDELINES AND RECOMMENDATIONS - AS APPLICABLE - IN THE NEMA VE-2 STANDARD.
- G. ALL METALLIC LADDER RACKS MUST BE BONDED TO GROUND PER NEC REQUIREMENTS. WHEN SECTIONS ARE NOT MECHANICALLY CONTINUOUS, BONDING CONDUCTORS MUST BE INSTALLED ACROSS THE SECTIONS. THIS INCLUDES LADDER RACK WHOSE SECTION CONNECTING HARDWARE IS NOT APPROVED AS A MEANS FOR PROVIDING GROUND CONTINUITY.
- H. A MINIMUM OF 915 MM (3 FT) OF CLEARANCE IN FRONT AND IN BACK OF RACKS. MORE CLEARANCE MUST BE PROVIDED WHEN DEEMED PRUDENT OR NECESSARY FOR USE, INSTALLATION, AND REMOVAL OF EQUIPMENT, OR TO MEET THERMAL REQUIREMENTS
- I. A MINIMUM OF 1219 MM (3 FT) OF CLEARANCE AT THE END OF A ROW OF RACKS OR CABINETS. J. A MINIMUM OF 305 MM (1 FT) ADDITIONAL CLEARANCE FROM A CARRIER (SERVICE PROVIDER) WALL FIELD BEYOND THE
- MINIMUMS SPECIFIED FOR RACKS AND CABINETS.
- K. AT LEAST 610 MM (2 FEET) OF CLEARANCE ABOVE RACKS AND CABINETS, WITH CABLE SUPPORT SYSTEMS BEING THE ONLY ALLOWABLE EXCEPTION.



SECTION 27 11 00 - EQUIPMENT ROOM FITTINGS FOR STRUCTURED CABLING

END OF SECTION

E. CABLE TRAYS MUST BE INSTALLED A MINIMUM OF 101.6 MM - 152.4 MM (4 IN - 6 IN) ABOVE CABINETS AND RACKS, WITH 304.8

D. CABLE TRAYS MUST BE INSTALLED IN A MANNER THAT ALLOWS AT LEAST 305 MM (12 IN) OF CLEARANCE ABOVE THE TOP OF

C. THE RACK SHOULD BE ATTACHED TO RMER/RTR FLOORS WITH ¾ IN. LAG SCREWS OR EQUIVALENT HARDWARE. THE FLOOR UNDER THE RACK SHOULD BE LEVEL WITHIN 3/16 IN. USE A FLOOR-LEVELING CEMENT COMPOUND IF NECESSARY.

THREADS. EQUIPMENT RACKS ARE TO BE CO-LOCATED WITH POWER OUTLETS TO ALLOW FOR EASY CONNECTION OF RACK-MOUNTED EQUIPMENT TO THE POWER SYSTEM. RACKS AND CABLE MANAGEMENT HARDWARE SHALL BE SECURELY

EACH RACK SHALL BE ASSEMBLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS. EACH RACK SHALL BE MOUNTED SUCH THAT THE SIDE RAILS ARE PLUMB. BOLTS SHALL BE TIGHTENED TO THE EXTENT THAT IT HOLDS THE MOUNTING HARDWARE FIRMLY, BUT NOT SO TIGHT AS TO DISTORT THE HARDWARE OR STRIP THE

A. ALL RELAY RACKS, LADDER RACK, AND CABLE TRAY SHALL BE BONDED TO GROUND IN ACCORDANCE WITH MANUFACTURER SPECIFICATIONS, AND PREVAILING CODES AND STANDARDS. SEE SECTION 27 05 26 FOR FURTHER GROUNDING AND B. RELAY RACKS SHALL BE ASSEMBLED AND MOUNTED IN LOCATIONS SHOWN IN THE DRAWINGS AND AS DESCRIBED HEREIN.

2. EITHER FIRE RATED (WITH A UL FR-S CLASSIFICATION), OR IF NON-FIRE-RATED - AND IF ACCEPTABLE TO THE AHJ -COVERED WITH TWO COATS OF FIRE-RETARDANT PAINT ON BOTH SIDES AND EDGES. FOR FIRE-RATED PLYWOOD THE CLASSIFICATION STAMP MUST NOT BE OBSCURED.

B. AS PART OF THEIR BASE QUOTATION, THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING AND INSTALLING ALL MISCELLANEOUS HARDWARE (E.G. CAGE NUTS, SCREWS), REQUIRED TO ACCOMPLISH A COMPLETE WORKING INSTALLATION.

C. WHERE ONE EQUIPMENT RACK IS INSTALLED, MOUNT ONE 6" VERTICAL CABLE MANAGER ON BOTH SIDES OF THE EQUIPMENT

D. WHERE TWO EQUIPMENT RACKS ARE INSTALLED, MOUNT ONE 6" VERTICAL CABLE MANAGER ON BOTH ENDS OF THE ROW, E. WHERE A WALL MOUNTED EQUIPMENT CABINET IS INSTALLED, PROVIDE INTERNAL VERTICAL CABLE MANAGERS.

A. SEE THE RACK ELEVATIONS AND RACK EQUIPMENT SCHEDULE ON THE CONSTRUCTION DRAWINGS FOR MANUFACTURERS

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SECTION 27 13 00 - STRUCTURED CABLING - BACKBONE CABLING

PART 1 - GENERAL

1.1 DESCRIPTION

- A. THIS SECTION INCLUDES INSIDE PLANT MULTIMODE FIBER, OUTSIDE PLANT MULTIMODE FIBER, SINGLE MODE FIBER FOR CARRIER CIRCUIT EXTENSION, AND CATEGORY 6 CABLES FOR CARRIER CIRCUIT EXTENSION.
- B. ALL RETAIL STANDARDS REGARDING IDENTIFICATION APPLY TO THIS SECTION. SEE 27 05 53 OF THIS STANDARD FOR ADDITIONAL DETAIL. C. THE NATIONAL ELECTRIC CODE DEFINES DISTANCE LIMITATIONS FOR OSP CABLE RUNS WITHIN BUILDINGS NOT IN CONDUIT, AT 50 FT.
- MAXIMUM. ALL SUCH REQUIREMENTS SHALL BE COMPLIED WITH AT ALL JPMC FACILITIES. D. EXTENDED NETWORK CABLES ARE TYPICALLY COMPRISED OF SIX 4-PAIR CATEGORY 6 CABLES, OR VIA 12-STRAND SINGLE-MODE FIBER IF THE SERVICE IS SWITCHED ETHERNET.
- E. EXCEPT FOR THE PURPOSES OF EXTENDING T.1. SWITCHED ETHERNET. OR ANALOG SERVICES. IN NO CASE SHALL CATEGORY 6 CABLE RUNS EXCEED 90M (295 FT) IN LENGTH. IN CASES WHERE T.1 SERVICE IS EXTENDED OVER CATEGORY 6 CABLES, THE CABLE DISTANCE SHALL NOT EXCEED 677 FT.
- F. SWITCHED ETHERNET SERVICE IS EXTENDED OVER SINGLE-MODE FIBER BY THE CARRIER TO THE JPMC RMER. PRIMARY SERVICE (CIRCUIT) SHALL BE ROUTED UNDERGROUND IN TWO 2" SCHEDULE 80 PVC CONDUITS. ONCE THE CONDUIT ENTERS THE BUILDING, IF OVER 50 FEET FROM THE ENTRANCE AND WITHIN JPMC CONTROLLED SPACE TRANSITION TO EMT CONDUIT. TERMINATE CONDUIT IN THE RMER. SECONDARY SERVICE (CIRCUIT) IS CELLULAR. PROVIDE EMT CONDUIT FROM THE CELLULAR DONOR ANTENNA LOCATION TO THE RMER, IF THE ANTENNA LOCATION IS ON THE ROOF OR OUTSIDE. IF CONDUITS ARE RUN INSIDE THE BUILDING BUT OUTSIDE OF JPMC CONTROLLED SPACE, TRANSITION IS REQUIRED TO RMC THROUGH NON-JPMC SPACE.
- G. EXTENDED NETWORK CABLES ARE USED TO EXTEND ANALOG DIAL TONE SERVICE AND/OR HIGH-SPEED DATA (E.G. T-1, SWE) SERVICE FROM THE ILEC'S PRESENCE IN THE BUILDING TO THE JPMC RMER.
- H. THIS SPECIFICATION CONTAINS ALL PRODUCTS CURRENTLY APPROVED BY JPMC. THE CONTRACTOR SHOULD NOT ASSUME THAT ALL OF THE MATERIALS LISTED IN THE SPECIFICATIONS MUST BE INSTALLED BECAUSE THEY ARE LISTED IN THE SPECIFICATION. PROJECT-SPECIFIC REQUIRED MATERIALS ARE FURTHER DEFINED IN THE PROJECT CONSTRUCTION DRAWINGS.

PART 2 - PRODUCTS

2.1 GENERAL FIBER CABLING REQUIREMENTS

- A. CABLE RATING
- 1. LOCAL OR NATIONAL CODES MAY REQUIRE SPECIFIC CABLE GRADING IN SPECIFIC APPLICATIONS. IT IS CONTRACTOR'S RESPONSIBILITY TO INSTALL CABLE THAT IS APPROPRIATE TO THE ENVIRONMENT. IF CONTRACTOR INSTALLS CABLE THAT IS INAPPROPRIATE TO THE ENVIRONMENT (E.G. RISER-RATED CABLE IN SPACES THAT REQUIRE PLENUM CABLE), CONTRACTOR SHALL BE EXPECTED TO REMOVE THE INAPPROPRIATE CABLE AND INSTALL APPROPRIATE CABLE AT THEIR SOLE EXPENSE.
- B. TERMINATION TYPE
- 1. ONLY FACTORY TERMINATED FIBER PATCH CORDS MAY BE UTILIZED IN JPMC FACILITIES. FIBER PATCH CORDS CREATED BY PERSONNEL NOT DIRECTLY EMPLOYED BY THE MANUFACTURER IS NOT PERMISSIBLE.
- 2. FIELD-TERMINATED CONNECTORS FOR THE FIBER BACKBONE IS THE PREFERRED TERMINATION METHOD. FUSION-SPLICED OR
- CORNING UNICAM TERMINATIONS ARE PERMITTED. 3. MULTIMODE & SINGLE MODE FIBER SHALL BE TERMINATED INTO LC CONNECTORS UNLESS NOTED OTHERWISE.
- C. CABLE JACKETING
- 1. CABLE JACKETING MAY OR MAY NOT BE ARMORED, DEPENDING UPON THE ENVIRONMENT AND THE APPLICATION.
- a. NON-ARMORED CABLE SHALL BE USED WHEN THE FIBER WILL BE INSTALLED WITHIN CONDUIT OR FOR A POINT-TO-POINT CONNECTION WITHIN THE RMER.
- b. ARMORED CABLE SHALL BE USED WHEN THE FIBER IS NOT INSTALLED WITHIN CONDUIT.
- D. CABLE GRADE
- 1. OM3 MULTIMODE BACKBONE FIBER SHALL BE USED FOR CABLE DISTANCES UP TO 300M (984FT.).
- 2. SINGLE MODE BACKBONE FIBER SHALL BE USED FOR DISTANCE GREATER THAN 300M (984FT.) OR FOR TELECOMMUNICATIONS CARRIER CIRCUIT EXTENSIONS.
- SINGLE MODE & CATEGORY 6 SHALL BE USED FOR TELECOMMUNICATIONS CARRIER CIRCUIT EXTENSIONS.
- 2.2 MATERIALS
- A. SEE THE CABLE SCHEDULE AND RACK EQUIPMENT SCHEDULE ON THE CONSTRUCTION DRAWINGS FOR MANUFACTURERS AND PART NUMBERS FOR THE FOLLOWING EQUIPMENT:
- 1. SINGLE MODE FIBER MATERIALS (FOR EXTENSION OF CARRIER CIRCUIT)
- 2. FIBER TERMINATION PANELS.
- 3. MULTIMODE FIBER MATERIALS (FOR BACKBONE TO A RTR IF APPLICABLE)

PART 3 - EXECUTION

- 3.1 GENERAL CABLING INSTALLATION
- A. SLEEVES SHALL NOT BE OVER-POPULATED WITH CABLES. SUFFICIENT SPARE CAPACITY SHALL BE ALLOWED IN EACH SLEEVE TO ACCOMMODATE APPROPRIATE FIRESTOPPING MATERIALS IN ACCORDANCE WITH MANUFACTURER SPECIFICATIONS AND THE UL FIRE RESISTANCE DIRECTORY. NOTE THAT MANUFACTURERS TYPICALLY SPECIFY A 20% TO 40% FILL FOR THEIR PRODUCTS.
- B. MANUFACTURER'S STANDARD PULLING TENSION AND MINIMUM BEND RADII SHALL BE COMPLIED WITH AT ALL TIMES. CABLES SHALL BE DRESSED-IN, VELCRO® OR MILLEPEDE® MILLE-TIES RELEASABLE CABLE TIED, AND SECURED TO THE LADDER RACK, PLYWOOD BACKBOARD, AND/OR OTHER SUITABLE SURFACES SO AS TO ENSURE A PROFESSIONAL APPEARANCE, RUN STRAIGHT, LEVEL, AND ALIGNED WITH BUILDING LINES, WITH 90° CORNERS WHERE POSSIBLE, BEARING IN MIND MANUFACTURER'S RECOMMENDED BEND RADII.
- C. CONTRACTOR SHALL FURNISH AND INSTALL ADEQUATE CABLE STRAIN RELIEF (E.G. CABLE DROPOUTS) TO ACCOMMODATE THE ANTICIPATED MAGNITUDE OF CABLING. WHEREVER FIBER AND COPPER CABLES ARE SEGREGATED. DEDICATED MULTIMODE STRAIN RELIEF SHALL BE PROVIDED, INCLUDING ADEQUATE PROVISION FOR CABLE ROUTE DIVERSITY WHERE APPLICABLE.
- 3.2 FIBER CABLING INSTALLATION
- A. AFTER FIBER CABLE HAS BEEN SUCCESSFULLY TESTED IN ACCORDANCE WITH THIS STANDARD, ALL CONNECTOR DUST COVERS SHALL BE SECURELY RESTORED.
- B. EMPTY ADAPTER PANEL PORTS SHALL BE EQUIPPED WITH BLANK PANELS.
- C. ALL FIBER STRANDS ARE TERMINATED INTO LC PATCH PANELS AT BOTH ENDS UNLESS NOTED OTHERWISE.
- D. IN SPACES WHERE ANY AIRBORNE DUST OR CONTAMINANTS MAY BE PRESENT, ESPECIALLY DURING CONSTRUCTION, CONTRACTOR SHALL FULLY AND PROPERLY PROTECT ANY AND ALL CONNECTORIZED CABLES TO AVOID TRANSMISSION PERFORMANCE DEGRADATION ASSOCIATED WITH DUST COMING IN CONTACT WITH CONNECTOR CONTACT POINTS. IF AT ALL POSSIBLE, AND WHERE ALLOWED BY THE PROJECT TIMELINE, CONTRACTOR'S FIRST CHOICE SHOULD BE TO AVOID THIS PROBLEM BY REFRAINING FROM INSTALLING ANY SUCH COMPONENTS UNTIL THE RISK OF AIRBORNE DUST AND CONTAMINANTS IS ELIMINATED (E.G. AFTER FLOORS AND CEILINGS ARE TREATED, AND WALLS RECEIVE THE FINAL COAT OF PAINT).
- 3.3 CARRIER CIRCUIT EXTENSION INSTALLATION
- A. CARRIER CIRCUIT EXTENSION CABLES SHALL BE INSTALLED BY CONTRACTOR. THE CABLE TERMINATIONS MAY BE PERFORMED EITHER BY CONTRACTOR, OR BY THE ILEC, DEPENDING UPON THE CUSTOMARY PRACTICE IN THAT ILEC'S REGION. CONTRACTOR SHALL COORDINATE THIS PORTION OF THE PROJECT WITH OPR.
- B. IF THE ROUTE FOR THE CARRIER CIRCUIT EXTENSION CABLES PASSES THROUGH SPACE THAT IS NOT CONTROLLED BY JPMC, IT IS VULNERABLE TO ACCIDENTAL OR INTENTIONAL SERVICE INTERRUPTION, AND SHOULD BE INSTALLED IN A PROPERLY-DESIGNED CONDUIT INFRASTRUCTURE. THE CONDUIT SIZING SHALL BE BASED ON A 40% FILL OF ALL CABLE TYPES BEING INSTALLED WITHIN THE CONDUIT.
- C. IN THE RMER, THE CATEGORY 6 CABLE IS TYPICALLY TERMINATED INTO A SMART JACK OR NTE (CIENA AND BEASBOX) FURNISHED BY THE ILEC. IN THE UNLIKELY EVENT THAT THE SMART JACK IS NOT LOCATED IN THE RMER, CONTRACTOR SHALL COORDINATE CONNECTIVITY REQUIREMENTS WITH THE OPR.
- D. CATEGORY 6 CABLES SHALL NOT BE KINKED OR UNDULY TWISTED, NOR SHALL THE INTEGRITY OF THE CABLE SHEATH BE COMPROMISED IN ANY FASHION. CABLE BUNDLES SHALL NOT BE CLINCHED OR TIED TOGETHER WITH EXCESSIVE FORCE, THEREBY HOLDING JACKET DEFORMATION TO A MINIMUM. INDIVIDUAL CABLE BEND RADII MAY BE NO LESS THAN FOUR TIMES THE CABLE DIAMETER OR 0.6 INCHES, WHICHEVER IS GREATER. TIE WRAPS SHALL NOT BE EMPLOYED FOR SECURING CATEGORY 6 CABLES.

DURING TERMINATION, UTP PAIR TWISTS SHALL BE MAINTAINED AS CLOSE AS POSSIBLE TO THE TERMINATION POINT. IN ANY CASE, THE AMOUNT OF UNTWISTING MUST NOT EXCEED .5 INCHES AT THE POINT OF TERMINATION.

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- 3.4 FIBER TESTING
- ONE DIRECTION.

- - 3.6 DOCUMENTATION

 - 3. MANUFACTURER'S PERFORMANCE AND APPLICATION WARRANTY

A. TESTS SHALL BE CARRIED OUT AT 850NM AND 1300NM FOR MULTI-MODE TESTING AND 1310NM AND 1550NM FOR SINGLE-MODE TESTING IN

B. THE FIBER MANUFACTURER'S WARRANTY CONDITIONS SHALL BE USED TO PERFORM ALL FIBER TESTING. THESE STANDARDS ARE MORE STRINGENT THAN INTERNATIONAL AND NATIONAL STANDARDS. THE CONTRACTOR IS REQUIRED TO PERFORM CUSTOM TESTS USING THE TESTER AND IS THEREFORE TO ADJUST THE CONTACTOR LOSS VALUES IN THE TESTER SOFTWARE ACCORDINGLY.

C. SHOULD INSTALLED FIBERS BE REQUIRED TO BE CONNECTED DIRECTLY INTO A SWITCH IN A HARNESS LINK TOPOLOGY, ALL FIBERS WILL BE PATCHED PRIOR TO TESTING COMMENCING, THEN INDIVIDUALLY UN-PATCHED, TESTED, AND FINALLY RE-PATCHED. THIS IS TO MITIGATE POLARITY CONCERNS.

D. WHEN REFERENCING FIBER OPTIC TESTERS THE 1 JUMPER (METHOD B) METHODOLOGY SHALL BE EMPLOYED.

FIBER TESTERS SHALL BE COMPLIANT WITH ENCIRCLE FLUX LAUNCH SOURCES/ CONDITIONS. ENCIRCLED FLUX TESTING PATCH LEADS SHALL BE USED AND SHOULD NOT BE MATED BEYOND THE MAXIMUM OF 500 TIMES.

F. DELIVERED CABLE TESTS ARE NOT REQUIRED, HOWEVER A CERTIFICATE OF CONFORMANCE SHALL BE SUPPLIED WITH EACH TRUNK CABLE AND COPIES MADE AVAILABLE ON SITE AND PROVIDED IN THE FINAL HANDOVER DOCUMENTATION. G. INDIVIDUAL CABLE RUNS SHALL BE TRACEABLE TO THE DELIVERED TRUNK CERTIFICATION.

3.5 CATEGORY 6/6A UTP AND CATEGORY 6A F/UTP TESTING

A. SEE SECTION 27 15 00 - HORIZONTAL CABLING FOR TESTING REQUIREMENTS

A. ALL TEST RESULTS ARE TO BE ISSUED IN PDF FORMAT A MAXIMUM OF TWO DAYS AFTER FINAL COMPLETION OF THE TESTING. THE PROJECT WILL NOT BE CONSIDERED COMPLETE AND INVOICES WILL NOT BE PAID UNTIL THIS IS ACHIEVED.

B. PDF FILE SIZES ARE TO BE NO GREATER THAN 10MB AS EMAIL IS THE ONLY OPTION OF ISSUING THEM. PAPER COPIES ARE NOT REQUIRED C. THE TEST RESULTS IN THE PDF DOCUMENT ARE TO BE SEQUENCED IN NUMERICAL ORDER, AND THE PORT DESCRIPTION SHOULD MATCH THE LABELLING NOMENCLATURE. IT IS IMPERATIVE THAT THE TEST RESULTS DETAIL THE LOCAL LENGTH MEASUREMENT UNITS.

D. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE ALL PORTS HAVE BEEN 100% TESTED PRIOR TO SUBMITTING THE TEST RESULTS. E. CONTRACTOR SHALL PROVIDE IN ELECTRONIC FORMAT:

1. A FINAL AS-BUILT FLOOR PLAN DRAWINGS DETAILING THE LABELING OF ALL DATA OUTLETS.

2. ALL FIBER OPTIC AND COPPER TEST RESULTS AS NOTED ABOVE.

F. THE PROJECT WILL NOT BE CONSIDERED COMPLETE AND ALL INVOICES WILL NOT BE PAID UNTIL THIS IS ACHIEVED.

END OF SECTION

PART 1 - GENERAL

1.1 DESCRIPTION

A. CELLULAR ANTENNAS ARE DEPLOYED FOR BRANCHES

PART 2 - PRODUCTS

2.1 MATERIALS

- 1. OUTDOOR OMNIDIRECTIONAL ANTENNA FOR 2G/3G/4G CELLULAR (JPMC SUPPLIED)

PART 3 - EXECUTION

- 3.1 INSTALLATION
- A. CABLE & ANTENNA INSTALLATION
- 1. ROOFTOP INSTALLATION:
 - MAIN EQUIPMENT ROOM (RMER); 1) GNS SIGNAL STRENGTH & QUALITY GUIDELINES:
- a. RSSI: > -80 DBM (SIGNAL STRENGTH LTE OR 3G)
- b. RSRP: > -105 DBM (SIGNAL STRENGTH SPECIFIC TO LTE) c. RSRQ: > -13 DB (SIGNAL QUALITY SPECIFIC TO LTE)
- d. SNR: > 5 DB (SIGNAL QUALITY LTE OR 3G)
- ANTENNA PLACEMENT PRIOR TO PLACEMENT
- AND CONNECTIVITY TO THE ROUTER.
- f. EXTEND FROM SURGE PROTECTOR TO ANTENNA TO THE 4G COMPATIBLE LIGHTNING PROTECTOR. N-TYPE MALE CONNECTOR, AND THE LIGHTNING ARRESTOR UNPROTECTED END UTILIZING TNC-TYPE MALE CONNECTOR)
- CABLE MAY NOT EXCEED 20 INCHES.
- 2. CEILING-MOUNT INSTALLATION:
- ACCORDANCE WITH THE MANUFACTURER'S GUIDELINES.
- AND CONNECTIVITY TO THE ROUTER.
- B. TESTING/REMEDIATION/DOCUMENTATION SIGNAL LOSS, ETC.
- 3. COMPARE SIGNAL LEVELS AT ROUTER TO DESIGN VALUES

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SECTION 27 13 00 STRUCTURED CABLING - BACKBONE CABLING SECTION 27 53 19 - CELLULAR ANTENNA

A. JPMC'S CELLULAR ANTENNA DEPLOYMENT UTILIZES THE FOLLOWING MAJOR MATERIALS:

2. 4G LIGHTNING SUPPRESSORS/ARRESTORS FOR OUTDOOR ANTENNA INSTALLS

3. CEILING MOUNT BRACKET (JDTECK) FOR INDOOR PANEL ANTENNAL INSTALLS

4. DIRECTIONAL (PANEL OR LOG PERIODIC STYLE) ANTENNAS (JPMC SUPPLIED)

5. LMR-240 FLEXIBLE LOW LOSS COMMUNICATIONS COAX OR LMR-400 FLEXIBLE LOW LOSS COMMUNICATIONS COAX 6. TNC CONNECTORS (TO ROUTER), N CONNECTORS TO ANTENNA

a. PERFORM RF ASSESSMENT FROM THE ROOF FOR VERIZON WIRELESS AND AT&T WIRELESS LTE SERVICE TO CONFIRM BANKING CENTER HAS A USEABLE LTE SIGNAL BY THE TIME IT REACHES JPMC ROUTER IN THE RETAIL

NOTE: SS POWER CAN BE USED IN PLACE OF RSSI ON THE CELL SURVEY TO INDICATE SIGNAL STRENGTH. SS POWER READING MUST BE ≥ 97 DBM

b. PERFORM INITIAL SPEED TESTS WITH A LTE MODEM TECHNOLOGY THAT IS EQUAL TO RETAIL NETWORK STANDARD (LTE CATEGORY 3, CATEGORY 6, OR CATEGORY 18). RECORD LOCAL FREQUENCY BANDS AND TRANSMIT/RECEIVE CHANNELS IN USE FOR EACH PROVIDER, FOR USE WITH MORE PRECISE TESTING EQUIPMENT. (I.E., ANRITSU DEVICE). CONTACT RETAIL NETWORK TEAM FOR CURRENT LTE STANDARD BEING

c. PROVIDE JPMC REAL ESTATE WITH A RECOMMENDATION FOR ANTENNA PLACEMENT - JPMC TO APPROVE FINAL

d. INSTALL (1) CELLULAR ANTENNA (TBD). INSTALL (1) LMR 240 (OR LMR 400) COAX CABLE FROM THE RMER/RTR TO THE LIGHTNING ARRESTOR LOCATION USING EXISTING ROOFTOP PENETRATION WHEREVER FEASIBLE 1) TERMINATE BOTH ENDS OF THE LMR 240 (OR LMR 400) COAX CABLE WITH THE LIGHTNING ARRESTOR

PROTECTED END UTILIZING (TBD) CONNECTOR TO CISCO 819 END UTILIZING TNC-TYPE MALE CONNECTOR) 2) PROVIDE 2 FEET OF SLACK AT THE MIDPOINT OF THE VERTICAL CABLE MANAGER, TO ASSURE BEND RADIUS

e. ATTACH THE ANTENNA-END OF THE CABLE TO THE CISCO 4G LIGHTNING ARRESTOR

1) TERMINATE BOTH ENDS OF THE LMR 240 (OR LMR 400) COAX CABLE WITH THE ANTENNA END UTILIZING

g. GROUND THE SURGE PROTECTOR WITH A #6 AWG GROUND WIRE TO NEAREST GROUND SOURCE. THE GROUND

h. WEATHERIZE ANY OUTDOOR CONNECTIONS AND FIRE-STOP ALL PENETRATIONS

a. INSTALL (1) JPMC-SUPPLIED CELLULAR ANTENNA [COMMSCOPE CELLMAX-D-CPUSE-O)] WITH CEILING MOUNT BRACKET JDTECK (CMB-YAMB-1) AT JPMC-DESIGNATED LOCATION WITHIN THE BANKING CENTER, IN

b. INSTALL (1) LMR 240 (OR LMR 400) COAX CABLE FROM THE RMER/RTR TO THE CELLULAR ANTENNA LOCATION 1) PROVIDE 2 FEET OF SLACK AT THE MIDPOINT OF THE VERTICAL CABLE MANAGER, TO ASSURE BEND RADIUS

c. TERMINATE BOTH ENDS OF THE LMR 240 (OR LMR 400) COAX CABLE WITH THE ANTENNA END UTILIZING TNC-FEMALE CONNECTOR AND THE CISCO 819 END UTILIZING TNC-TYPE MALE CONNECTOR)

1. TEST COAXIAL (LMR 240 OR LMR 400) CABLE FROM ROUTER END TO ANTENNA END FOR; CONTINUITY, SHORTS,

2. TEST RF SIGNAL STRENGTH/QUALITY AT THE RTR/RMER END OF THE CONNECTION DELIVERED BY ANTENNA

4. REMEDIATE ANY SYSTEM ISSUES (ANTENNA OR CABLING) THAT DEVIATE FROM PLANNED VALUES

5. PROVIDE PHOTOS OF ANTENNA INSTALLATION AND RMER/RTR TERMINATION ALONG WITH FINAL TEST RESULTS FOR SWEEP AND RF SIGNAL LEVEL TESTS TO JPMC (REQUIREMENT FOR FINAL ACCEPTANCE)

END OF SECTION

SECTION 27 53 19 CELLULAR ANTENNA



SECTION 27 15 00 - STRUCTURED CABLING - HORIZONTAL CABLING

PART 1 - GENERAL

- 1.1 DESCRIPTION
- A. CATEGORY 6 HORIZONTAL CABLE INFRASTRUCTURE SHALL BE INSTALLED FOR ALL STANDARD WALL OUTLETS AND ATM CABLE RUNS UNLESS NOTED OTHERWISE. THESE CABLES SHALL BE TERMINATED IN THE RMER OR RTR ON A 24-PORT OR 48-PORT PATCH PANEL WITH CATEGORY 6, RJ-45 JACKS, EMPLOYING T568B TERMINATIONS.
- B. CATEGORY 6A HORIZONTAL CABLE INFRASTRUCTURE SHALL BE INSTALLED FOR ALL WIRELESS ACCESS POINT AND SECURITY CAMERA LOCATIONS. THESE CABLES SHALL BE TERMINATED IN THE RMER OR RTR ON A 24-PORT PATCH PANEL WITH CATEGORY 6A, RJ-45 JACKS, EMPLOYING T568B TERMINATIONS.
- C. FOILED/UNSHIELDED TWISTED PAIR CATEGORY 6A HORIZONTAL CABLE INFRASTRUCTURE SHALL BE INSTALLED FOR ALL VIDEO MONITOR LOCATIONS WHERE IDENTIFIED TO SUPPORT HDBASE-T TECHNOLOGY. THESE CABLES SHALL BE TERMINATED IN THE RMER OR RTR ON A 24-PORT SHIELDED PATCH PANEL WITH CATEGORY 6A, SHIELDED, RJ-45 JACKS, EMPLOYING T568B TERMINATIONS.
- D. TELEPRESENCE CONTROLLER LOCATIONS WILL BE EQUIPPED WITH POINT-TO-POINT F/UTP CATEGORY 6A HORIZONTAL CABLES AND AUDIO CABLES.
- E. IN NO CASE SHALL CATEGORY 6 / 6A, AND F/UTP CATEGORY 6A CABLE RUNS EXCEED 90M (295 FT) IN LENGTH. IN THE EVENT THAT A CABLE RUNS EXCEEDS 90M (295FT) BUT NO MORE THAN 300M (984FT), THEN 50-MICRON, OM3-RATED MULTIMODE FIBER SHALL BE INSTALLED WITH FIBER-TO-COPPER MEDIA CONVERTERS ON BOTH ENDS OF THE CABLE RUN.
- F. THIS SPECIFICATION CONTAINS ALL PRODUCTS CURRENTLY APPROVED BY JPMC. THE CONTRACTOR SHOULD NOT ASSUME THAT ALL OF THE MATERIALS LISTED IN THE SPECIFICATIONS MUST BE INSTALLED BECAUSE THEY ARE LISTED IN THE SPECIFICATION. PROJECT-SPECIFIC REQUIRED MATERIALS ARE FURTHER DEFINED IN THE PROJECT CONSTRUCTION DRAWINGS.

PART 2 - PRODUCTS

- 2.1 PLENUM REQUIREMENTS
- A. LOCAL OR NATIONAL CODES MAY ALLOW NON-PLENUM (PVC) CABLE IN SOME LOCATIONS, IN WHICH CASE CONTRACTOR SHALL INFORM OPR THAT PLENUM RATED CABLE IS NOT REQUIRED. IF THE USE OF PVC CABLE IS APPROVED BY OPR, CONTRACTOR SHALL QUOTE AND INSTALL PVC CABLE. IF NO INFORMATION EXISTS REGARDING PLENUM/PVC CABLE REQUIREMENTS, CONTRACTOR SHALL QUOTE AND INSTALL PLENUM RATED CABLE.
- 2.2 PATCH CORDS GENERAL
- A. ONLY FACTORY TERMINATED PATCH CORDS MAY BE UTILIZED IN JPMC FACILITIES. UTP PATCH CORDS THAT ARE PRE-TERMINATED (E.G., CREATED BY PERSONNEL NOT DIRECTLY EMPLOYED BY THE MANUFACTURER) ARE NOT PERMISSIBLE, UNLESS PREVIOUSLY APPROVED IN WRITING BY OPR.
- B. QUANTITIES, TYPES, AND LENGTHS OF PATCH CORDS ARE SPECIFIED BY OPR.
- C. ALL PATCH CORDS FOR PRINTERS, MULTI-FUNCTION DEVICES (MFD), ETC. SHALL BE 7 FT. IN LENGTH.
- D. RMER/RTR PATCH CORDS SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR, TO ENSURE APPROPRIATE LENGTHS AND TIMELY MATERIAL PROCUREMENT. PATCH CORDS SHALL HAVE NO MORE THAN 1' OF SLACK.
- E. PATCH CORDS SHALL BE COLORED AS FOLLOWS:
 - CATEGORY 6: GRAY
 - CATEGORY 6A: WHITE
 - CATEGORY 6A F/UTP: WHITE
- 2.3 MATERIALS
- A. SEE THE WORK AREA OUTLET SCHEDULE, CABLE SCHEDULE, AND RACK EQUIPMENT SCHEDULE ON THE CONSTRUCTION DRAWINGS FOR MANUFACTURERS AND PART NUMBERS FOR THE FOLLOWING EQUIPMENT: CATEGORY 6 UTP MATERIALS
 - CATEGORY 6A UTP MATERIALS
 - CATEGORY 6A F/UTP MATERIALS
 - CATEGORY 6 OSP UTP MATERIALS
 - CATEGORY 6A OSP UTP MATERIALS
 - OUTSIDE PLANT HORIZONTAL MULTIMODE FIBER MATERIALS
- 2.4 COPPER AND FIBER OPTIC TESTING EQUIPMENT

FACEPLATES

- A. THE FOLLOWING PRODUCTS SHOULD BE USED WHEN TESTING STRUCTURED CABLING INFRASTRUCTURE:
 - TEST EQUIPMENT WHICH IS CAPABLE OF ELECTRONICALLY STORING TEST RESULT DATA. THE TESTER SHALL EXCEED ANSI/TIA-1152 LEVEL 2G
 - CATEGORY 6 AND CATEGORY 6A PERMANENT AND CHANNEL ADAPTERS 2.
 - SINGLE-MODE AND MULTI-MODE FIBER ADAPTERS
 - ENCIRCLED FLUX REFERENCE CORDS
 - FIBER INSPECTION PROBE/ MICROSCOPE APPROPRIATE CONNECTOR CLEANING TOOLS/ TAPES
 - 2M CATEGORY 6 PATCH LEADS IF CHANNEL TESTING CATEGORY 6 CABLING
 - 2M CATEGORY 6A PATCH LEADS IF CHANNEL TESTING CATEGORY 6A CABLING

PART 3 - EXECUTION

3.1 INSTALLATION

- A. ALL RJ45 TERMINATIONS EMPLOY 568B TERMINATIONS.
- B. ALL CABLES AND OUTLETS SHALL BE LABELED IN ACCORDANCE WITH SECTION 27 05 53.
- C. COMPLETED HORIZONTAL CABLES SHALL BE TESTED IN ACCORDANCE WITH PART 3.2 TESTING BELOW.
- D. CONTRACTOR SHALL POPULATE THE PATCH PANEL WITH OUTLET TERMINATIONS TO SUPPORT INITIAL WORK AREA OUTLET
- REQUIREMENTS, AND LEAVING A GROWTH FACTOR OF 10% AS OPEN POSITIONS. E. TO ENSURE OPTIMUM CABLE PERFORMANCE. BUNDLES OF 4-PAIR CABLES SHALL NOT BE TIGHTLY BUNDLED AND CAREFULLY ALIGNED
- FOR DESIRABLE AESTHETIC APPEARANCE. F. CATEGORY 6/6A CABLES SHALL NOT BE KINKED OR UNDULY TWISTED, NOR SHALL THE INTEGRITY OF THE CABLE SHEATH BE COMPROMISED IN ANY FASHION. CABLE BUNDLES SHALL NOT BE CLINCHED OR TIED TOGETHER WITH EXCESSIVE FORCE, THEREBY HOLDING JACKET DEFORMATION TO A MINIMUM. INDIVIDUAL CABLE BEND RADII MAY BE NO LESS THAN FOUR TIMES THE CABLE CATEGORY
- DIAMETER OR 0.6 INCHES, WHICHEVER IS GREATER. G. DURING TERMINATION, PAIR TWISTS SHALL BE MAINTAINED AS CLOSE AS POSSIBLE TO THE TERMINATION POINT. IN ANY CASE, THE AMOUNT OF UNTWISTING MUST NOT EXCEED .5 INCHES AT THE POINT OF TERMINATION.
- H. CABLES SHALL BE DRESSED-IN, VELCRO® OR MILLEPEDE® MILLE-TIES RELEASABLE CABLE TIED, AND SECURED TO THE LADDER RACK, PLYWOOD BACKBOARD, AND/OR OTHER SUITABLE SURFACES TO ENSURE A PROFESSIONAL APPEARANCE AND RUN STRAIGHT, LEVEL, AND PARALLEL TO BUILDING LINES, WITH 90° CORNERS WHERE POSSIBLE. CONTRACTOR SHALL COMPLY WITH MANUFACTURER'S STANDARD PULLING TENSION AND MINIMUM BEND RADII AT ALL TIMES.
- IN THE RMER/RTR, CABLES ASSOCIATED WITH A GIVEN WORK AREA SHALL BE TERMINATED INTO CONTIGUOUS POSITIONS IN THE PATCH PANEL. FOR EXAMPLE, IF EACH WORK AREA IS EQUIPPED WITH TWO CATEGORY 6 CABLES, THE FIRST WORK AREA SHALL BE TERMINATED ON POSITIONS 1 AND 2 OF THE PATCH PANEL, THE SECOND WORK AREA SHALL BE TERMINATED ON POSITIONS 3 AND 4 OF THE PATCH PANEL, AND SO FORTH.
- J. IN THE RMER/RTR, A FLOOR PLAN MAP ILLUSTRATING THE TELECOM OUTLETS, WAPS AND IP CAMERA LOCATIONS AND NUMBERS SHALL BE MADE READILY AVAILABLE AND VIEWABLE.
- K. WHEREVER PRACTICAL, JACKS THAT ARE INSTALLED AT MODULAR FURNITURE LOCATIONS SHALL BE FULLY INTEGRATED INTO FURNITURE RACEWAY LOCATIONS THAT ARE DESIGNED FOR THE PURPOSE, AVOIDING THE USE OF BISCUIT JACKS. WHERE THE FURNITURE SYSTEM DOES NOT CONTAIN AN INTEGRAL RACEWAY, AND NO APPARENT CABLE MANAGEMENT METHOD IS PROVIDED. CABLING SHALL BE NEATLY DRESSED AND CONCEALED UPON REVIEW AND APPROVAL BY THE OPR. VELCRO, DOUBLE SIDED TAPE OR OTHER ADHESIVE MATERIALS WILL ONLY BE ACCEPTED IF PREVIOUSLY APPROVED IN WRITING BY THE OPR.
- . CABLING TO WALL MOUNTED WORKSTATION OUTLETS SHALL TERMINATE IN A SINGLE- OR DOUBLE-GANG BOX PROVIDED BY OTHERS. CONTRACTOR SHALL PROVIDE THE NECESSARY CONNECTORS (AS DESCRIBED ELSEWHERE) UNDER A SINGLE-GANG FACEPLATE. THE

- SPACE.
- ATM BY OTHERS.

3.2 TESTING

5.

Α.	DESCRIP	TION
	1.	PRIOR
		DOOLIN

	INFORM
2.	BRIEF O
3.	OVERVIE REFERE
4.	DETAILS

TEST RESULT BACKUP PROCEDURE DETAILS OF PROCEDURE FOR REMEDIATING ANY TEST RESULTS WHICH DO NOT PASS THE REQUIRED TESTS A PROGRAM OF WORKS FOR THE TESTING, SHOULD THIS NOT BE CLEAR IN THE OVERALL INSTALLATION PROGRAM

- USED

- 3.3 FIBER TESTING
- IN ONE DIRECTION.

- 3.4 CATEGORY 6 AND CATEGORY 6A TESTING
- ISO/IEC 11801 ANSI/TIA 568

RY 6	
1.	WIRE MA
2.	LENGTH
3.	PROPAG
4.	DELAY S
5.	DC LOOF
6.	DC RESI
7.	INSERTI
8.	NEXT (N
9.	PS NEXT
10.	ACR-N (/
11.	PS ACR-
12.	ACR-F (A
13.	PS ACR-
14.	RETURN
15.	TCL (TR/
16.	ELTCTL

TYPE OF FACEPLATE TO BE USED SHALL BE COORDINATED WITH THE ARCHITECT FOR COLOR, FINISH, ETC.

M. CABLING TO FLOOR MOUNTED WORKSTATION OUTLETS SHALL BE TERMINATED IN A FLUSH OR SURFACE MOUNTED POKE-THRU OR SERVICE FITTING PROVIDED BY OTHERS. ALL CABLING AND CONNECTORS SHALL REMAIN WITHIN THE POKE-THRU OR SERVICE FITTING HOUSING. IF NECESSARY, THE CONTRACTOR SHALL MODIFY THE BLANK PLATES PROVIDED WITH THE POKE-THRU OR SERVICE FITTING IN ORDER TO ACCOMMODATE THE CONNECTORS.

N. FOR HORIZONTAL FTP CABLING, GROUNDING OF THE SHIELD SHOULD BE MADE ON THE RMER END ONLY.

O. FOR ALL HORIZONTAL CABLE RUNS THAT RUN EXTERIOR TO THE MAIN BUILDING, INSTALL OSP-RATED UTP OR FIBER CABLE. CONDUIT SHALL BE PROVIDED FROM THE OUTLET TO THE RMER/RTR. OSP CABLING SHALL NOT BE INSTALLED IN A PLENUM-RATE CEILING

P. FOR EACH UTP OSP CABLE THAT TERMINATES OUTSIDE THE ROOF LINE OF THE BUILDING, FURNISH AND INSTALL ONE OSP PROTECTOR, MOUNTED TO THE PLYWOOD BACKBOARD IN THE EQUIPMENT ROOM, AND BONDED TO THE GROUNDING BUSBAR VIA A MINIMUM 14 AWG GREEN JACKETED GROUND WIRE. TERMINATE THE UTP OSP CABLE AT THE PROTECTOR PER MANUFACTURER SPECIFICATIONS. WHERE THE OSP CABLE IS TERMINATED IN AN RJ45 JACK AT AN ATM, PROTECTION IS FURNISHED BY OTHERS, AND A 6 FT SERVICE LOOP SHALL BE PROVIDED SO THAT THE SURFACE MOUNTED RJ45 SINGLE-OUTLET JACK CAN BE DRESSED INTO THE INTERIOR OF THE

Q. ALL OUTLET JACKS, CABLE, PATCH PANEL, PATCH CORDS MUST MATCH THE CATEGORY OR FIBER GRADE OF CABLE BEING DEPLOYED.

TO THE TESTING COMMENCING, THE CONTRACTOR IS TO PROVIDE A COMPREHENSIVE TESTING METHODOLOGY DOCUMENT FOR APPROVAL, PRIOR TO ANY TESTING COMMENCING. THIS DOCUMENT SHALL INCLUDE THE FOLLOWING ATION:

VERVIEW OF THE PROJECT (LOCATION, SCOPE ETC.)

EW OF THE TESTING PROCEDURE INCLUDING SUPPORTING DOCUMENTATION, ONSITE EQUIPMENT CALIBRATION/ ENCING AND CLEANING PROCEDURE.

S OF THE EQUIPMENT TO BE USED.

CALIBRATION REQUIREMENTS AND CERTIFICATION FOR THE EQUIPMENT TO BE USED

B. ALL ELECTRONIC AND OPTICAL MEASURING (TEST) EQUIPMENT SHALL BE WITHIN 12 MONTHS OF A CALIBRATION THAT HAS BEEN CARRIED OUT BY AN APPROVED CALIBRATION HOUSE. ALL CALIBRATION CERTIFICATES SHALL BE AVAILABLE ON SITE DURING THE TESTING PHASE. ALL TEST RESULTS SHALL IDENTIFY THE EQUIPMENT SERIAL NUMBER (LOCAL AND REMOTE) OF TEST EQUIPMENT

C. THE "STORE PLOT DATA" FUNCTION OF THE TESTER MUST BE ENABLED PRIOR TO ANY TESTING COMMENCING. THIS IS TO ENABLE ELECTRONIC RE-TESTING AT A LATER DATE SHOULD THIS BE REQUIRED. TEST RESULTS ISSUED WITHOUT THE PLOT DATA ENABLED WILL BE CONSIDERED NON-COMPLIANT AND RE-TESTING WILL BE REQUIRED AT THE CONTRACTORS COST.

D. ALL MARGINAL (OR STAR *) PASSES SHALL BE CONSIDERED FAILS AND WILL REQUIRE REMEDIATION UNTIL A PASS IS ACHIEVED.

E. ONCE ALL PRODUCTS (I.E. CABLES AND ASSOCIATED HARDWARE) HAVE BEEN FULLY INSTALLED IN THEIR FINAL LOCATIONS AND LABELLED, TESTING OF ALL CORES/ CABLES MAY COMMENCE.

F. ALL CABLES/ CORES SHALL BE 100% TESTED IN ACCORDANCE WITH THE SECTIONS BELOW.

G. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REMEDIATE ALL FAULTS FOUND WHILST TESTING AT ITS OWN EXPENSE. ALL TEST EQUIPMENT SHALL BE BY THE CONTRACTOR.

H. JPMC MAY CHOOSE TO WITNESS TEST RANDOM ELEMENTS OF THE INSTALLATION, WHICH SHOULD HAVE ALREADY BEEN ALLOWED FOR IN THE COSTS. THE CONTRACTOR SHALL PROVIDE 2 TESTING ENGINEERS AND ALL EQUIPMENT REQUIRED TO UNDERTAKE THE WITNESS TESTING (INCLUDING FULLY CHARGED TEST EQUIPMENT). CHANNEL TESTING (INCLUDING EXISTING PREVIOUSLY INSTALLED INFRASTRUCTURE MAY ALSO BE REQUIRED AS PART OF THE WITNESS TESTING, TO ENSURE THAT THE FULL CHANNEL IS COMPLIANT.

I. THE PROJECT SHALL NOT BE CONSIDERED COMPLETE UNTIL ALL SCS INFRASTRUCTURE HAS BEEN 100% TESTED AND TEST RESULT ISSUED TO JPMC IN BOTH TESTER AND PDF FORMAT. TEST RESULTS ARE TO BE BROKEN DOWN INTO 10MB FILE SIZES AND EMAILED (FTP SITES, CDS OR FLASH DRIVES ARE NOT PERMITTED).

A. TESTS SHALL BE CARRIED OUT AT 850NM AND 1300NM FOR MULTI-MODE TESTING AND 1310NM AND 1550NM FOR SINGLE-MODE TESTING

B. THE FIBER MANUFACTURER'S WARRANTY CONDITIONS SHALL BE USED TO PERFORM ALL FIBER TESTING. THESE STANDARDS ARE MORE STRINGENT THAN INTERNATIONAL AND NATIONAL STANDARDS. THE CONTRACTOR IS REQUIRED TO PERFORM CUSTOM TESTS USING THE TESTER AND IS THEREFORE TO ADJUST THE CONTACTOR LOSS VALUES IN THE TESTER SOFTWARE ACCORDINGLY.

C. SHOULD INSTALLED FIBERS BE REQUIRED TO BE CONNECTED DIRECTLY INTO A SWITCH IN A HARNESS LINK TOPOLOGY, ALL FIBERS WILL BE PATCHED PRIOR TO TESTING COMMENCING, THEN INDIVIDUALLY UN-PATCHED, TESTED, AND FINALLY RE-PATCHED. THIS IS TO MITIGATE POLARITY CONCERNS.

D. WHEN REFERENCING FIBER OPTIC TESTERS THE 1 JUMPER (METHOD B) METHODOLOGY SHALL BE EMPLOYED.

E. FIBER TESTERS SHALL BE COMPLIANT WITH ENCIRCLE FLUX LAUNCH SOURCES/ CONDITIONS. ENCIRCLED FLUX TESTING PATCH LEADS SHALL BE USED AND SHOULD NOT BE MATED BEYOND THE MAXIMUM OF 500 TIMES.

F. DELIVERED CABLE TESTS ARE NOT REQUIRED, HOWEVER A CERTIFICATE OF CONFORMANCE SHALL BE SUPPLIED WITH EACH TRUNK CABLE AND COPIES MADE AVAILABLE ON SITE AND PROVIDED IN THE FINAL HANDOVER DOCUMENTATION.

G. INDIVIDUAL CABLE RUNS SHALL BE TRACEABLE TO THE DELIVERED TRUNK CERTIFICATION.

A. PERMENANT LINK AND CHANNEL TESTING SHOULD BE PERFORMED IN ACCORDANCE WITH THE FOLLOWING STANDRADS PER REGION:

B. PERMANENT LINK TESTING SHOULD BE PERFORMED BETWEEN A PATCH PANEL AND AN RJ45 OUTLET

C. CHANNEL TESTING SHOULD BE PERFORMED BETWEEN A PATCH PANEL AND A FACTORY TERMINATED RJ45 PLUG (WHEN A HARNESS LINK OR CONSOLIDATION POINT HAS BEEN DEPLOYED). CHANNEL TESTING BETWEEN TWO RJ45 OUTLETS IS NOT TYPICALLY REQUIRED.

D. SYSTEM ACCEPTANCE TESTS FOR CATEGORY 6 ARE DETAILED BELOW:

GATION DELAY

SKEW P RESISTANCE - RECORDED FOR INFORMATION ONLY

SISTANCE UNBALANCE - RECORDED FOR INFORMATION ONLY

ION LOSS

IEAR-END CROSSTALK) (POWER SUM NEAR-END CROSSTALK)

ATTENUATION TO CROSSTALK RATIO NEAR-END) - RECORDED FOR INFORMATION ONLY

-N (POWER SUM ATTENUATION TO CROSSTALK RATIO NEAR-END) - RECORDED FOR INFORMATION ONLY

(ATTENUATION TO CROSSTALK RATIO FAR-END)

R-F (POWER SUM ATTENUATION TO CROSSTALK RATIO FAR-END)

LOSS

ANSVERSE CONVERSION LOSS) - RECORDED FOR INFORMATION ONLY

(EQUAL LEVEL TRANSVERSE CONVERSION TRANSFER LOSS) - RECORDED FOR INFORMATION ONLY

SECTION 27 15 00 (10) STRUCTURED CABLING - HORIZONTAL CABLING

CATEGORY 6A & CATEGORY 6A (CATAGORY6A SHIELDED/FOILED CABLES FOR AUDIO-VIDEO CABLES ONLY)

WIRE MAP

- LENGTH PROPAGATION DELAY
- DELAY SKEW
- DC LOOP RESISTANCE
- DC RESISTANCE UNBALANCE WITHIN A PAIR
- DC RESISTANCE UNBALANCE BETWEEN PAIRS
- INSERTION LOSS
- NEXT (NEAR-END CROSSTALK) PS NEXT (POWER SUM NEAR-END CROSSTALK)
- 10. ACR-N (ATTENUATION TO CROSSTALK RATIO NEAR-END)
- 12. PS ACR-N (POWER SUM ATTENUATION TO CROSSTALK RATIO NEAR-END)
- ACR-F (ATTENUATION TO CROSSTALK RATIO FAR-END) 13
- 14. 15 RETURN LOSS
- TCL (TRANSVERSE CONVERSION LOSS) 16.
- 17 ELTCTL (EQUAL LEVEL TRANSVERSE CONVERSION TRANSFER LOSS)
- 18. PS ANEXT (POWER SUM ALIEN NEAR-END CROSSTALK)
- AVERAGE PS ANEXT (AVERAGE POWER SUM ALIEN NEAR-END CROSSTALK) 20. PS AACR-F (POWER SUM ALIEN ATTENUATION TO CROSSTALK RATIO FAR-END)
- AVERAGE PS AACR-F (AVERAGE POWER SUM ALIEN ATTENUATION TO CROSSTALK RATIO FAR-END) 21.

22. SHIELD/FOIL CONTINUITY (FOR CATAGORY6A SHIELDED/FOILED CABLES ONLY) E. ALL MARGINAL (OR STAR *) PASSES SHALL BE CONSIDERED FAILS AND WILL REQUIRE REMEDIATION UNTIL A PASS IS ACHIEVED

3.3 DOCUMENTATION

- B. PDF FILE SIZES ARE TO BE NO GREATER THAN 10MB AS EMAIL IS THE ONLY OPTION OF ISSUING THEM. PAPER COPIES ARE NOT
- REQUIRED.
- HORIZONTAL CABLE LABELS AT EACH OUTLET LOCATION. THE FINAL AS-BUILT CABLE LABEL SHALL BE IDENTICAL TO THE CABLE IDENTIFIER IN THE TEST RESULTS.
- AS-BUILT DRAWINGS AS A COMPLETE CLOSE OUT SUBMITTAL. THE PROJECT WILL NOT BE CONSIDERED COMPLETE AND INVOICES WILL NOT BE PAID UNTIL THIS IS ACHIEVED.

END OF SECTION

PS ACR-F (POWER SUM ATTENUATION TO CROSSTALK RATIO FAR-END)

A. ALL TEST RESULTS ARE TO BE ISSUED IN PDF FORMAT A MAXIMUM OF TWO DAYS AFTER FINAL COMPLETION OF THE TESTING. THE PROJECT WILL NOT BE CONSIDERED COMPLETE AND INVOICES WILL NOT BE PAID UNTIL THIS IS ACHIEVED.

C. THE TEST RESULTS IN THE PDF DOCUMENT ARE TO BE SEQUENCED IN NUMERICAL ORDER, AND THE PORT DESCRIPTION SHOULD MATCH THE LABELLING NOMENCLATURE. IT IS IMPERATIVE THAT THE TEST RESULTS DETAIL THE LOCAL LENGTH MEASUREMENT UNITS. D. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE ALL PORTS HAVE BEEN 100% TESTED PRIOR TO SUBMITTING THE TEST RESULTS. E. THE CONTRACTOR SHALL PROVIDE AN ELECTRONIC COPY OF THE TEST RESULTS AND THE FINAL AS-BUILT DRAWINGS SHOWING ALL

THE CONTRACTOR SHALL PROVIDE THE FINAL MANUFACTURER PERFORMANCE AND ASSURANCE WARRANTY, TEST RESULTS AND FINAL

JP ST	MOR GLOBAL TE WORKPLA RUCTUR I POLARIS F	GAN CHASE & C ECHNOLOGY INFRASTRUCTURE END USER SERVICES CE & DATA CENTER SERVICES ED CABLING ENGINEERIN PARKWAY, COLUMBUS, OHIO 43	O. NG 3240	
NEW RETAIL BRANCH PRYOR RD. AND LOWENSTEIN DR.				
keyplar	1			
		KEVIN BRENNAN REG. No. 166050 EXPIRES 12-31-23 RCDD		
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TELECOM FIRST FLOOR PLAN





		F	RACK EQUIPME	NT SCH	IEDULE		
ITEM	DESCRIPTION	MANUFACT.	MODEL NUMBER	ITEM	DESCRIPTION	MANUFACT.	MODEL NUMBER
(1A)	2-POST RACK, 45RU, BLACK FINISH	CPI	66353-703	8B	12" WIDE LADDER RACK - BLACK FINISH	CPI	10250-712
2A	6" WIDE, DOUBLE-SIDED VERTICAL CABLE MANAGER, BLACK FINISH	CPI	30095-703	80	LADDER RACK STRINGER RADIUS DROP 10.3" W - BLACK FINISH	CPI	12101-701
2B	10" WIDE, DOUBLE-SIDED VERTICAL CABLE MANAGER, BLACK FINISH	CPI	30096-703	(8D)	LADDER RACK CABLE RETAINING POSTS	CPI	10596-706
3A)	2RU HORIZONTAL CABLE MANAGER, BLACK FINISH	CPI	30130-719	8E	LADDER RACK WALL ANGLE SUPPORT KIT	CPI	11421-712
3B	1RU HORIZONTAL CABLE MANAGER, BLACK FINISH	CPI	30139-719	8F	EQUIPMENT SHELF	CPI	11359-719
(4A)	MODULAR, ANGLED, 48-PORT PATCH PANEL	COMMSCOPE / SYSTIMAX	760187211	9A)	NETWORK SWITCH	CISCO	PROVIDED BY OWNER
(4B)	MODULAR, ANGLED, 24-PORT PATCH PANEL	COMMSCOPE / SYSTIMAX	760187203	9B	NETWORK ROUTER	CISCO	PROVIDED BY OWNER
6A)	RACK MOUNTED HORIZONTAL GROUNDING BUSBAR KIT (SEE GROUNDING SCHEMATIC)	PANDUIT	RGRB19U	90	CELLULAR NETWORK ROUTER WITH ANTENNA	CISCO	PROVIDED BY OWNER
(7A)	BLACK VERTICAL POWER DISTRIBUTION UNIT WITH MOUNTING BRACKET FOR IT EQUIPMENT ONLY	CPI	EA-3087-CE (2 PACK 1-WHITE	9D	REMOTE ANTENNA FOR CELLULAR NETWORK ROUTER	CISCO	PROVIDED BY OWNER
(7B)	WHITE VERTICAL POWER DISTRIBUTION UNIT WITH MOUNTING BRACKET FOR IT EQUIPMENT ONLY	CPI	1-BLACK) WITH (2) TS1012713	96	SERVER AND MOUNTING BRACKET (CPI 12751-719)	PROVIDED BY OWNER	PROVIDED BY OWNER
(8A)	2RU BLANK PANEL - BLACK FINISH	CPI	30024-702	9H)	UPS AND MOUNTING BRACKET	PROVIDED BY OWNER	PROVIDED BY OWNER
				10	RECEPTACLES MOUNTED ON A SE C-CHANNEL (UNISTRUT) BELOW THE LA & ABOVE THE RACKS.	PARATE ADDER RACK	PROVIDED BY EC
				(11)	ALL-THREAD TO STRUCTUR	E	PROVIDED BY TC





ENLARGED MAIN EQUIPMENT ROOM NOTES

NEW 2-POST RACK WITH BLACK FINISH.

- NEW 6" WIDE VERTICAL WIRE MANAGER WITH BLACK FINISH.
- NEW 10" WIDE VERTICAL WIRE MANAGER WITH BLACK FINISH
- NEW WALL MOUNTED, FIRE-RATED PLYWOOD BACKBOARD, 4' WIDE BY 8' TALL BY 3/4" THICK, BOTTOM MOUNTED 6" ABOVE FINISHED FLOOR. PAINT WITH FIRE-RETARDANT PAINT TO MATCH ROOM COLOR AND LEAVE ONE FIRE-RATED STAMP VISIBLE.
- NEW 12" WIDE LADDER RACK OVERHEAD WITH BLACK FINISH.
- LOCATION OF THE TELECOMMUNICATIONS GROUND BUSBAR. MOUNT 6" BELOW THE BOTTOM OF THE LADDER RACK. REFER TO GROUNDING DETAIL ON TC-403 FOR ADDITIONAL INFORMATION.
- PROVIDE TWO 4" PRE-MANUFACTURED FIRE-RATED SLEEVES (STI EZ-PATH PART # EZD44S2) WITH WATERFALL ADAPTER (STI PART #EZRCM44S) FOR STRUCTURED CABLING USE ONLY. USE MUTLI-GANG PLATE (STI PART #EZP544W). REFER TO CABLE PENETRATION DETAIL ON TC-402 FOR ADDITIONAL INFORMATION.
- 4' WIDE BY 7'-0" TALL WALL FIELD AREA RESERVED FOR SECURITY EQUIPMENT.
- . 3' WIDE BY 3' TALL WALL FIELD AREA RESERVED ON BACKBOARD FOR CARRIER EQUIPMENT TO BE MOUNTED.
- PROVIDE ONE 4" PRE-MANUFACTURED FIRE-RATED SLEEVE (STI EZ-PATH PART # EZDP44S2) FOR SECURITY ALARM AND CARD ACCESS CABLING USE ONLY. REFER TO CABLE PENETRATION DETAIL ON TC-402 FOR ADDITIONAL INFORMATION.
- E.C. TO PROVIDE TWO 2" CONDUITS FROM THE RMER TO THE CARRIER POINT OF ENTRY. ONE CONDUIT FOR THE SERVICE PROVIDER TO EXTEND THEIR DEMARCATION INTO THE NEW RMER. ONE CONDUIT WILL BE OWNER SPARE. THE E.C SHALL FIELD COORDINATE THIS ROUTE WITH THE BUILDING OWNER AND TELECOMMUNICATIONS CARRIER PRIOR TO INSTALLATION. PROVIDE 2" 3-CELL MAXCELL INNERDUCT AND SWEEPING 90-DEGREE BENDS. REFER TO CONDUIT AND SLEEVE LABELING ON TC-402 FOR LABELING INFORMATION.
- 12. PROVIDE A DRAWING OF THE FLOOR PLAN AS-BUILT WITH ALL HORIZONTAL CABLING LABELS FOR EACH OUTLET. MOUNT DRAWING TO WALL. PROVIDE ADDITIONAL FULL SIZE DRAWING TUBE ADJACENT TO CABLING DRAWING WITH A COMPLETE FULL SIZE SET OF ALL CONSTRUCTION AS-BUILT DRAWINGS FOR SITE.
- SPACE FOR WALL MOUNTED HVAC UNIT. BOTTOM MOUNTED 8'-0" AFF WITH DRIP PAN AND DRIP PAN LEAK DETECTION. HVAC CONTRACTOR SHALL PROVIDE PROTECTION ON ALL SHARP CORNER EDGES.
- 14. EC TO PROVIDE A C-CHANNEL (UNI-STRUT) WITH TWO L14-30 OUTLET AT RACK #1 AND TWO NEMA 5-20 OUTLETS AT RACK #2 MOUNTED AT 7'-6" AFF. EACH OUTLET SHALL BE ON A DEDICATED CIRCUIT. EC TO MOUNT THIS INDEPENDENTLY FROM THE LADDER RACK AND THE EQUIPMENT RACKS. REFER TO TC-403 FOR REQUIRED EQUIPMENT POWER CONNECTIONS SCHEMATIC AND PDU MOUNTING DETAIL.
- 5. NEW WALL MOUNTED, FIRE-RATED PLYWOOD BACKBOARD, 2' WIDE BY 8' TALL BY 3/4" THICK, BOTTOM MOUNTED 6" ABOVE FINISHED FLOOR. PAINT WITH FIRE-RETARDANT PAINT TO MATCH ROOM COLOR AND LEAVE ONE FIRE-RATED STAMP VISIBLE.
- 16. 1'-4" WIDE BY 5'-6" TALL WALL FIELD AREA RESERVED BUILDING AUTOMATION SYSTEM (BAS) EQUIPMENT.
- PROVIDE ONE 2" PRE-MANUFACTURED FIRE-RATED SLEEVE (STI EZ-PATH PART # EZD22) FOR BUILDING AUTOMATION SYSTEM (BAS) CABLING USE ONLY. REFER TO CABLE PENETRATION DETAIL ON TC-402 FOR LABELING INFORMATION.
- PROVIDE 2" CONDUIT TO EXTERIOR ATM LOCATION AS SHOWN ON SHEET TC-102. PROVIDE 2" 3-CELL MAXCELL INNERDUCT AND SWEEPING 90-DEGREE BENDS. REFER TO CONDUIT AND SLEEVE LABELING ON TC-402 FOR LABELING INFORMATION.
- 19. WALL MOUNTED SUPPORT BRACKET FOR LADDER RACK.
- 20. ALL SECURITY SYSTEM CABLING MUST BE AFFIXED TO WALL AND/OR FIXED CONVEYANCE WITH HANGERS, VELCRO AND TIES. NO HANGING CABLES. (TYPICAL)
- POWER CONNECTIONS ON DEDICATED CIRCUITS AND CONDUIT HOMERUN FOR SECURITY EQUIPMENT. EC TO COORDINATE ADDITIONAL CONNECTIONS REQUIRED, OUTLET MOUNTING HEIGHT, AND OUTLET CONFIGURATIONS & LOCATIONS ON THE BACKBOARD WITH THE SECURITY VENDOR.
- 22. DATA OUTLETS FOR THE ACCESS CONTROL PANEL FOR EQUIPMENT NETWORK CONNECTION. COORDINATE WITH SECURITY CONTRACTOR TO PROVIDE ONE CONNECTION FOR EACH PANEL WITHIN SINGLE GANG BACK BOX AND FACEPLATE.
- PROVIDE 1" CONDUIT TO ROOF LOCATION FOR FUTURE ANTENNA CABLING. REFER TO CONDUIT AND SLEEVE LABELING ON TC-402 FOR LABELING INFORMATION.
- 24. QUAD POWER OUTLET ON A DEDICATED CIRCUIT AND CONDUIT HOMERUN FOR CARRIER EQUIPMENT.
- 25. QUAD POWER OUTLET ON A DEDICATED CIRCUIT AND CONDUIT HOMERUN FOR FUTURE EQUIPMENT.
- 26. DEDICATED DUPLEX OUTLET FOR BUILDING AUTOMATION SYSTEM (BAS)EQUIPMENT.
- 27. APPROXIMATE LOCATION OF THE 2" CONDUIT FOR ALARM CABLING TO DRIVE UP ATM. FIELD COORDINATE FINAL LOCATION.
- 28. 2-PORT SURFACE MOUNTED CAT6 DATA OUTLET WITH PURPLE COLORED CAT6 JACKS FOR COPPER EXTENSION OF CARRIER CONNECTIONS TO RACK.
- 29. ALL CARRIER CABLING MUST BE AFFIXED TO WALL AND/OR FIXED CONVEYANCE WITH HANGERS, VELCRO AND TIES. NO HANGING CABLES. (TYPICAL)
- 30. ALL BAS CABLING MUST BE AFFIXED TO WALL AND/OR FIXED CONVEYANCE WITH HANGERS, VELCRO AND TIES. NO HANGING CABLES (TYPICAL).
- DATA OUTLET FOR THE BUILDING AUTOMATION SYSTEM (BAS) PANEL FOR EQUIPMENT NETWORK CONNECTION. REFER TO CONDUIT AND SLEEVE LABELING ON TC-402 FOR LABELING INFORMATION.
- 32. LOCATION FOR CONVENIENCE ELECTRICAL RECEPTACLE (BY DIV 26).
- 33. NOTE NOT USED.
- 34. PROVIDE SURGE PROTECTION FOR EACH CAT6 AND CAT6A CABLE LEAVING THE ROOM TO SERVE POLE MOUNTED CAMERAS AND ANY FREESTANDING ATM ISLAND/CANOPY DEVICES. PROVIDE ITW #CAT6-75 PROTECTION FOR EACH CAT6 CABLE AND ITW #CAT6A-75 FOR EACH CAT6A CABLE. BOND TO THE GROUNDING BAR PER MANUFACTURER REQUIREMENTS.
- 35. WHERE THE SLEEVE PENETRATION IS ELEVATED 24" OR MORE ABOVE THE LADDER RACK, PROVIDE A WALL MOUNTED VERTICAL SECTION OF LADDER RACK FOR CABLE VERTICAL TRANSITION



OUTLET TYPE	CABLE CATEGORY	LENGTH	QTY PER OUTLET	
VORK AREA OUTLET / CUBICLE / OFFICE (OUTLET TO PHONE)	CAT 6	7 FOOT	1	
WORK AREA OUTLET / CUBICLE / OFFICE (PHONE TO COMPUTER)	CAT 6	5 FOOT	1	
PRINTER	CAT 6	7 FOOT	1	
ATM OUTLETS	CAT 6	15 FOOT	1	
WALL PHONE OUTLET	CAT 6	6 INCH	1	
VIDEO MONITOR OUTLETS	CAT 6A SHIELDED	5 FOOT	1	
TELEPRESENCE CONTROL OUTLETS	CAT 6A SHIELDED	5 FOOT	2	
IP-CCTV CAMERA INTEGRAL TO ATM	CAT 6A	15 FOOT	1	
RMER / RTR END PA		EMENTS		
PATCH PANEL TYPE CABLE TYPE LENGTH QTY PER PORT				
CAT6 UTP PATCH PANEL SHORTER PULL	CAT 6	7 FOOT	1	
CAT6 UTP PATCH PANEL LONGER PULL	CAT 6	10 FOOT	1	
CAT6A UTP PATCH PANEL SHORTER PULL	CAT 6A	7 FOOT	1	
CAT6A UTP PATCH PANEL LONGER PULL	CAT 6A	10 FOOT	1	
SERVER	CAT 6	10 FOOT	1	
DVR	CAT 6	10 FOOT	1	
UPS	CAT 6	10 FOOT	1	
ROUTER	CAT 6	10 FOOT	1	
CARRIER BACKBOARD	CAT 6	3 FOOT	2	



















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	PROJECT MAJOR N	IATERIAL REQ	UIREMENTS	;		
CATEGORY	MATERIAL	MANUFACTURER	MODEL NUMBER	QTY	EXT	NOTES
	CAT6, PLENUM RATED, HORIZONTAL UTP GRAY CABLE	COMMSCOPE/SYSTIMAX	700210198 (REEL)	#	LF	
	CAT6, PLENUM RATED, HORIZONTAL UTP GRAY CABLE	COMMSCOPE/SYSTIMAX	700214372 (BOX)	#	LF	
	CATEGORY 6, NON-PLENUM RATED HORIZONTAL UTP	COMMSCOPE/SYSTIMAX	700211923 (REEL)	#	LF	
	CATEGORY 6, NON-PLENUM RATED HORIZONTAL UTP	COMMSCOPE/SYSTIMAX	700211931 (BOX)	#	LF	
	CATEGORY 6 PATCH CORD SLATE	COMMSCOPE/SYSTIMAX	CPC3312-03N006	5	EA	>*
	CATEGORY 6 PATCH CORD SLATE	COMMSCOPE/SYSTIMAX	CPC3312-03F005	7	EA	
	CATEGORY 6 PATCH CORD SLATE	COMMSCOPE/SYSTIMAX	CPC3312-03F007	56	EA	
	CATEGORY 6 PATCH CORD SLATE	COMMSCOPE/SYSTIMAX	CPC3312-03F010	29	EA	
U	CATEGORY 6A, PLENUM RATED, HORIZONTAL UTP	COMMSCOPE/SYSTIMAX	760105940 (REEL)	#	LF	
ABUN	CATEGORY 6A, PLENUM RATED, HORIZONTAL UTP	COMMSCOPE/SYSTIMAX	760107268 (BOX)	#	LF	
PER C	CATEGORY 6A, NON-PLENUM RATED, HORIZONTAL UTP	COMMSCOPE/SYSTIMAX	760105817	#	LF	
COPF	CATEGORY 6A, PATCH CORD WHITE	COMMSCOPE/SYSTIMAX	CPCSSX2-08F005	1	EA	
	CATEGORY 6A, PATCH CORD WHITE	COMMSCOPE/SYSTIMAX	CPCSSX2-08F007	16	EA	
	CATEGORY 6A. PATCH CORD WHITE	COMMSCOPE/SYSTIMAX	CPCSSX2-08F010	20	EA	
	CATEGORY 6A, PLENUM RATED, HORIZONTAL F/UTP	COMMSCOPE/SYSTIMAX	UN874034704	#	LF	
			760008888	#	LF	
			CO15542.01E007		=	
			2015542-01F007	-1	EA LE	
			760178129	#	LF 	
	CATEGORY 6A, OSP RATED, PATCH CORD BLACK	COMMSCOPE/SYS IIMAX	CO15582-01F007	2	EA	
	SHIELDED 22/2 PAIR CABLING	BELDEN	9451	#	LF	
	CAT 6 RJ45 JACK (GREY)	COMMSCOPE/SYSTIMAX	700206733	74	EA	
	CAT 6 RJ45 JACK (ORANGE)	COMMSCOPE/SYSTIMAX	700206683	8	EA	a
B	CAT 6 RJ45 JACK (PURPLE)	COMMSCOPE/SYSTIMAX	700206675	4	EA	
BOX	CAT 6A RJ45 JACK (GREEN)	COMMSCOPE/SYSTIMAX	760092403	31	EA	
AND	CAT 6A RJ45 JACK (WHITE)	COMMSCOPE/SYSTIMAX	760092429	5	EA	
PLATE	WALL MOUNTED FACEPLATE, 4-PORT	COMMSCOPE/SYSTIMAX	108168543	32	EA	
FACE	2-PORT NON-PLENUM RATED SURFACE MOUNT BOX	COMMSCOPE/SYSTIMAX	107984056	1	EA	
	CATEGORY 6A PLENUM RATED CEILING CONNECTOR ASSEMBLY WITH 18" LONG PIGTAIL	COMMSCOPE/SYSTIMAX	760235592	6	EA	
	CATEGORY 6A PLENUM RATED CEILING CONNECTOR ASSEMBLY WITH 15'-0" LONG PIGTAIL	COMMSCOPE/SYSTIMAX	C01SJ02-88F015	20	EA	
	BRUSHED DECORA STYLE PASSHTROUGH FACEPLATE	LEVITON	41075-DBW	3	EA	
8	RACK MOUNTED EQUIPMENT GROUND KIT W/ 108"	PANDUIT	GJS6120U OR	10	EA	
DNIC	JUMPER BUSBAR-TO-RACK GROUND BAR KIT W/ 15' JUMPER	CPI PANDUIT	40159-009 GJS6180U	4	EA	
BON	RACK MOUNTED HORIZONTAL GROUNDING BUSBAR KIT (SEE GROUNDING SCHEMATIC)	PANDUIT	RGRB19U	2	EA	
69	TWO HOLE LONG BARREL LUG	PANDUIT	LCC6 SERIES	#	EA	
	2-POST RACK, 45RU, BLACK FINISH	CPI	66353-703	2	EA	
	6" WIDE, DOUBLE-SIDED VERTICAL CABLE MANAGER, BLACK FINISH	CPI	30095-703	2	EA	
	10" WIDE, DOUBLE-SIDED VERTICAL CABLE MANAGER, BLACK FINISH	CPI	30096-703	1	EA	1
	2RU HORIZONTAL CABLE MANAGER, BLACK FINISH	CPI	30130-719	5	EA	
	MODULAR, ANGLED, 48-PORT PATCH PANEL	COMMSCOPE/SYSTIMAX	760187211	2	EA	
	MODULAR, ANGLED, 24-PORT PATCH PANEL	COMMSCOPE/SYSTIMAX	760187203	1	EA	
ATS	RACK MOUNTED HORIZONTAL GROUNDING BUSBAR KIT	PANDUIT	RGRB19U	1	EA	
ONE	(SEE GROUNDING SCHEMATIC) (1) WHITE AND (1) BLACK VERTICAL POWER	CPI	EA-3087-CE	1	EA	
OMP	DISTRIBUTION UNIT, 2-PACK MOUNTING BRACKET BLACK	CPI	TS1012713	1	EA	
TED (MOUNTING BRACKET WHITE	CPI	TS 1012713	1	EA	0
socia	2RU BLANK PANEL - BLACK FINISH	CPI	30024-702	2	FA	
ID AS	12" WIDE LADDER BACK - BLACKEINISH	CPI	10250-712	- 15	LE	
CK AN	LADDER RACK STRINGER RADIUS DROP 10.3" W -	CPI	12101-711	3	FA	
M/RA		CPI	10596-706	6	EA	
ROOI		CRI	11421-712	4	EA	
MENT			11350 710	-	EA	
duipr		CPI	12751 719	1	EA	
Ξ			(1) zLock-zC14-14-aC15-	4	EA.	
	C14-C15 LOCKING POWER CORD (BLACK) 2 ME TER	2011	2m (1)zLock-zC14-14-aC15-	1	EA	
	CI4-CI5 LOCKING POWER CORD (WHITE) 2 METER	2011	2m-WH (1) zLock-zC14-14-aC13-	2	EA	
	C14-C13 LOCKING POWER CORD (BLACK) 2 METER	ZONIT	2m (1) ZLock-zC14-14-aC13-	1	EA	
	C14-C13 LOCKING POWER CORD (WHITE) 2 METER	ZONIT	2m-WH	2	EA	
	CAT 6 SURGE PROTECTION DEVICE	ITW	CAT6-75	1	EA	
	CAT 6A SURGE PROTECTION DEVICE	ITW	CAT6A-75	2	EA	
/ES	4" PRE-MANUFACTURED FIRE RATED SLEEVE	STI	EZD44S2	2	EA	
SLEEV	WATERFALL ADAPTER	STI	EZRCM44S	3	EA	
ATED	MULTI-GANG PLATE	STI	EZP544W	2	EA	
IRE RJ	4" PRE-MANUFACTURED FIRE RATED SSLEEVE FOR SECURITY CABLING	STI	EZDP44S2	1	EA	
ш	2" PRE-MANUFACTURED FIRE RATED SLEEVE	sп	EZD22	1	EA	

NOTES:

- IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL QUANTITIES PRIOR TO PROCUREMENT.

- "#" DENOTES THAT THE CONTRACTOR IS TO FIELD VERIFY LENGTHS AND QUANTITIES PRIOR TO PROCUREMENT.

PORT #	LOCATION	ITEM	LABE
1	PCS 6 105	DATA OUTLET	M2A0
2	LAO / CASH 113	DATA OUTLET	M2A0
3	PCS 7 106	DATA OUTLET	M2A0
4	PCS 3 102	DATA OUTLET	M2A0
5	PCS 1 116	DATA OUTLET	M2A0
6	CONFERENCE / PCS 2 101	DATA OUTLET	M2A0
7	CONFERENCE / PCS 2 101	DATA OUTLET	M2A0
8	CONFERENCE / PCS 2 101	DATA OUTLET	M2A0
9	LOBBY 117	DATA OUTLET	M2A0
10	LOBBY 117	DATA OUTLET	M2A1
11	LOBBY 117	DATA OUTLET	M2A1
12	LOBBY 117	DATA OUTLET	M2A1
13	LOBBY 117	DATA OUTLET	M2A1
14	LOBBY 117	DATA OUTLET	M2A1
15	PRINT / FILE 115	DATA OUTLET	M2A1
16	PRINT / FILE 115	DATA OUTLET	M2A1
17	PRINT / FILE 115	DATA OUTLET	M2A1
18	ACCESS TELLER 114	DATA OUTLET	M2A1
19	ACCESS TELLER 114	DATA OUTLET	M2A1
20	ACCESS TELLER 114	DATA OUTLET	M2A2
21	LAO / CASH 113	DATA OUTLET	M2A2
22	LAO / CASH 113	DATA OUTLET	M2A2
23	BOOTH 4 103	DATA OUTLET	M2A2
24	BOOTH 5 104	DATA OUTLET	M2A2
25	RMER / DA TA 112	DATA OUTLET	M2A2
26	RMER / DA TA 112	DATA OUTLET	M2A2
27	RMER / DA TA 112	DATA OUTLET	M2A2
28	RMER / DA TA 112	DATA OUTLET	M2A2
29	RMER / DA TA 112	DATA OUTLET	M2A2
30	RMER / DA TA 112	WALL PHONE	M2A3
31	PRINT / FILE 115	WALL PHONE	M2A3
32	MANUAL TRANSACTION 118	WALL PHONE	M2A3
33	EQUIPMENT ROOM 117	WALL PHONE	M2A3
34	LOUNGE 110	WALL PHONE	M2A3
35	MANUAL TRANSACTION 118	TELLER DATA OUTLET	M2A3
36	MANUAL TRANSACTION 118	TELLER DATA OUTLET	M2A3
37	MANUAL TRANSACTION 118	TELLER DATA OUTLET	M2A3
38	EQUIPMENT ROOM 117	A TM DATA OUTLET	M2A3
39	LOBBY 117	A TM DATA OUTLET	M2A3
40	LOBBY 117	FUTURE ATM OUTLET	M2A4
41	SITE	DU ATM DATA OUTLET	M2A4
42			
43			
44			
45			
46			
47	RMER / DATA 112	CARRIER EXTENSION DATA OUTLET	M2A4
40	RMER / DATA 112	CARRIER EXTENSION DATA OUTLET	M2A4

1 2 3 4 5 6 7 8	LOBBY 117 LOBBY 117 LOBBY 117 LOBBY 117 LOBBY 117	CAM #1 CAM #2 CAM #3 CAM #4-5 (360 DEGREE)	M2C01 M2C02
2 3 3 4 5 5 6 7 8 9	LOBBY 117 LOBBY 117 LOBBY 117 LOBBY 117	CAM #2 CAM #3 CAM #4-5 (360 DEGREE)	M2C02
3 4 5 6 7 8	LOBBY 117 LOBBY 117 LOBBY 117	CAM #3 CAM #4-5 (360 DEGREE)	
4 5 5 7 8 7	LOBBY 117 LOBBY 117	CAM #4-5 (360 DEGREE)	M2C03
5 6 7 8	LOBBY 117		M2C04
6 77 8 7	LOBBY 117	ATM CAM #6	M2C05
7 8	LOBBT TT/	CAM #7	M2C06
8	HALLWAY 109	CAM #8	M2C07
100	TELLER AREA	CAM #9	M2C08
9	MANUAL TRANSACTION 118	CAM #10-11 (CAM MODULE)	M2C09
10	MANUAL TRANSACTION 118	CAM #12	M2C10
11	ACCESS TELLER 114	CAM #13	M2C11
12	LAO/CASH 113	CAM #14	M2C12
13	DATA/RMER 112	CAM #15	M2C13
14	LOUNGE 110	CAM #16	M2C14
15	EQUIPMENT ROOM 117	CAM#17	M2C15
16	EQUIPMENT ROOM 117	ATM CAM #18	M2C16
17	24-HOUR VESTIBULE	CAM #19	M2C17
18	24-HOUR VESTIBULE	CAM #20	M2C18
19	24-HOUR VESTIBULE	EXTERIOR CAM #21	M2C19
20	PCS 105	EXTERIOR CAM #22	M2C20
21	EQUIPMENT ROOM 117	EXTERIOR CAM #23	M2C21
22	LAO/CASH 113	EXTERIOR CAM #24	M2C22
23	LOUNGE 110	EXTERIOR CAM #25	M2C23
24	RESTROOM 108	EXTERIOR CAM #26	M2C24
25	SITE	DU ATM CAM #27	M2C25
26	SITE	DU ATM CANOPY CAM #28	M2C26
27	LOBBY 117	FUTURE ATM CAM #29	M2C27
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PATCH PANEL "B" - CAT6A WIRELESS - SCHEDULE				
PORT #	LOCATION	ITEM	LABEL	
1	LOBBY 117	WAP #1	M2B01	
2	LIVING ROOM	WAP #2	M2B02	
3	PCS 7	WAP #3	M2B03	
4	ACCESS TELLER	WAP #4	M2B04	
5	LOUNGE	WAP #5	M2B05	
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2 SCALE:

PROJECT PANEL SCHEDULE



		Definition and Checklist for RMER & RTR Room Acceptance Stage 1 of 2: Room Ready			
ddress: ity: tate:	ress: Room Name/Number Floor e: Punch List Date				
roperty ID: TI - Implem	entation PM:	Punch List Complete Date Acceptance Walkthrough			
	WDCS Ren:	(First name, Last Name, SID)			
	11200 100	(First name, Last Name, SID) (First name, Last Name, SIL	D)		
General C	onstruction				
Scheduled Date	ed Verified Complete Date Inspection Item Description				
		Walls completed with final painting and built deck to deck. Walls are built with 5/8" Type X gypsum drywall board from the floor to the underside of the deck or greater if local code is more stringent			
		Permanent door and hardware installed. This should include the automatic closer and door sweep. Temporary lock core is acceptable.			
		Ceiling has been encapsulated to prevent firestopping from flaking and creating dust in the room. Plywood backboards have been installed and painted with fire retardant paint and 1 fire-rating certification stamp is left			
		unpainted. Sealed concrete flooring is completely installed. Architect shall define the seal type (acrylic, epoxy, polyurethane, or siloxane) sealer.			
		RMER/RTR is vacuumed, broom swept, and cleaned to a level that is adequate to safely maintain space for pulling and terminating copper and fiber cabling.			
Mashasia		Any openings or penetrations through wails have been sealed with firestop.	L		
Scheduled	Verified		Exception		
Date	Date		SNOW SCTASK #		
		Power receptacles should be mounted above racks on an independent C-channel (unistrut). Provide dedicated circuits with dedicated neutral and equipment grounding conductor (EGC). No Isolated Ground (IG) circuits unless required for specific			
		All power outlets have been installed, energized, tested, & labeled. Power receptacles shall be labeled with panel ID and circuit #.			
		Permanent lighting and switches installed. Lighting located in aisle ways and coordinated with rack and/or cabinet layout. Wall mounted grounding bus bar inside RMER/RTR has been installed and connected to the building grounding system.			
		Fire alarm/smoke detection devices (if required for project) are installed and wired, in the RMER/RTR. All conduits & sleeves have been completely installed, grounded & labeled in compliance with Retail Structured Cabling standard.			
		Backboxes have been roughed-in for Access Control, IP-CCTV & Intrusion Detection systems; inclusive of panels and power. Cages over sprinkler heads installed.			
		Dedicated cooling unit has been installed, including leak detection, pipes, valves, drip pans, ductwork, condensate piping, and drains. Cooling unit designed to maintain ASHRAE standard for temperature and humidity. All duct work & diffuser installations have been completed & fire dampers installed where required to maintain fire rating of			
		room. BMS devices installed and wired to equipment (If required).			
		Cooling units fully commissioned and operational 24 x 7.			
		Security camera locations have the pathways roughed-in (if required) and cabling installed			
Technolog	ıy - Structure	d Cabling			
Scheduled Date	Verified Complete Date	Inspection Item Description	Exceptions SNOW SCTASK s		
		Racks have been bolted to the floor in their final position and cable managers have been installed per the TC drawings (enlarged RMER/RTR floor plan and rack elevations). Seismic bracing installed on racks if required. All clearances within the RMER/RTR as per drawings have been validated.			
		Pathways outside the RMER/RTR are installed including; J-hooks, sleeves, and any conduit pathways.			
		Carrier cabling is pulled into room, terminated, tested, and labeled. (If applicable).			
Acceptanc	e Sign-Off				
WDCS:		Date:			
RRE:	(first and (first and	l last name of approver) Date: Date:	kutunta ta t		
		Comments			
Note 1 _ Note 2 _					
Note 3 _					
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Note 9					

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	WDCS Rep:	(First name, Last Name, SID)	rst name, Last Name, SID)		
eneral C	onstruction			·····	Approva	al Initials
heduled Date	Verified Complete Date	Inspection Item Description		Exceptions: SNOW SCTASK #	WDCS (Retail SCE / RSO / GTI-	RRE (JPMC Real Estat JLL or CBRE PM
		Temporary lock core has been changed to JPMC lock core.				
echanic	al/Electrical/F	lumbing			Approva	al Initials
heduled Date	Complete Date	Inspection Item Description		SNOW SCTASK #	(Retail SCE / RSO / GTI- Implementation PM)	RRE (JPMC Real Estat JLL or CBRE PM
		BMS system operational (If required). (Not monitored)				
curity				_	Approva	al Initials
heduled Date	Verified Complete Date	Inspection Item Description		Exceptions: SNOW SCTASK #	(Retail SCE / RSO / GTI- Implementation PM)	RRE (JPMC Real Estat JLL or CBRE PM
		Security cameras are installed, online, calibrated, and viewable in the March Network NVR remote view	wing software.			
		Door alarms for the branch are enabled.				
chnolog	gy - Structure Verified	d Cabling		Exceptions:	Approva WDCS	al Initials RRE
Date	Complete Date	Inspection Item Description		SNOW SCTASK #	(Retail SCE / RSO / GTI- Implementation PM)	(JPMC Real Estat JLL or CBREPN
		Room ready data cleaning completed; room is clean and dust free. (Based on SECTION 27 05 03 R All rack-mounted ground bars have been grounded to the wall mounted ground bus bar.	equirements)			
		Overhead pathways (ladder racks) have been grounded within the RMER/RTR.				
		Armored communications cable jackets (if any) have been grounded. The grounding connections have been connected to the Network Electronics (switches & routers).				
		Cabling and wallphone plate installed for wall phone(s). Wall phone installed inside room and operation	onal.			
		Backbone cabling (copper/fiber) installation between RMER and RTR (if applicable). Cabling installed, routed, and supported utilizing strain relief in a neat manner that does not block equi	pment mounting space			
		or interfere with other systems. Structured cabling installation complete (terminated, labeled, & tested) in RMER/RTR.				
		No plastic tiewraps used to manage power or communications cabling slack or bundles.				
		Equipment racks, fiber enclosures (if applicable), and patch panels labeled as per the Retail Structure	ed Cabling labeling stand			
		All equipment power cords are neatly managed.				
		All network equipment racked in their final positions per the rack elevations on the TC drawings.	anacad			
		Patch cable slack does not exceed more than 1' on either end of the cable.				
		No cables (horizontal, patch, or backbone) are blocking fan trays or blocking equipment mounting spa	ces.			
		As-builts of floor plan with all telecom outlets labeled has been printed out and mounted to the wall.				
		Any punch list items found upon cable test review have been corrected.				
echnolo	av - Remote S	Carrier equipment is installed and tested by the carrier and JPMC Network Engineer in its designated	position.		Approva	al Initials
heduled	Verified Complete	Inspection Item Description		Exceptions: SNOW	WDCS (Retail SCE	RRE
Date	Date	All powered IT equipment, aside from audio-visual or carrier equipment, must be labeled with the dev	ices hostname and a	SCTASK #	/RSO/GTI- Implementation PM)	JLL or CBRE PM
		yellow asset tag on the front side of the device. A machine generated label indicating the serial number also be placed on the front side of the device.	er of the device shall			
		All racks or cabinets have a yellow asset tag at the top of the front door and all racks must have a yello front in a visible area that can be easily accessed with a barcode scanner.	ow asset tag at the top			
		All assets have been entered into into the asset management system software and the equipment inv matches the inventory in the asset management system software.	entoried in the room			
		All WDCS signage has been installed within the room, including red box, bar code scanner, and label	S.			
ceptant DCS:	ce Sign-Off	Date:				
RE:	(first and	l last name of approver) Date:				
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