

CITY AND COUNTY OF SAN FRANCISCO PUBLIC UTILITIES COMMISSION WASTEWATER ENTERPRISE



SOUTHEAST WATER POLLUTION CONTROL PLANT BIOSOLIDS DIGESTER FACILITIES PROJECT

February 8, 2021

CIVIC DESIGN REVIEW PHASE 3

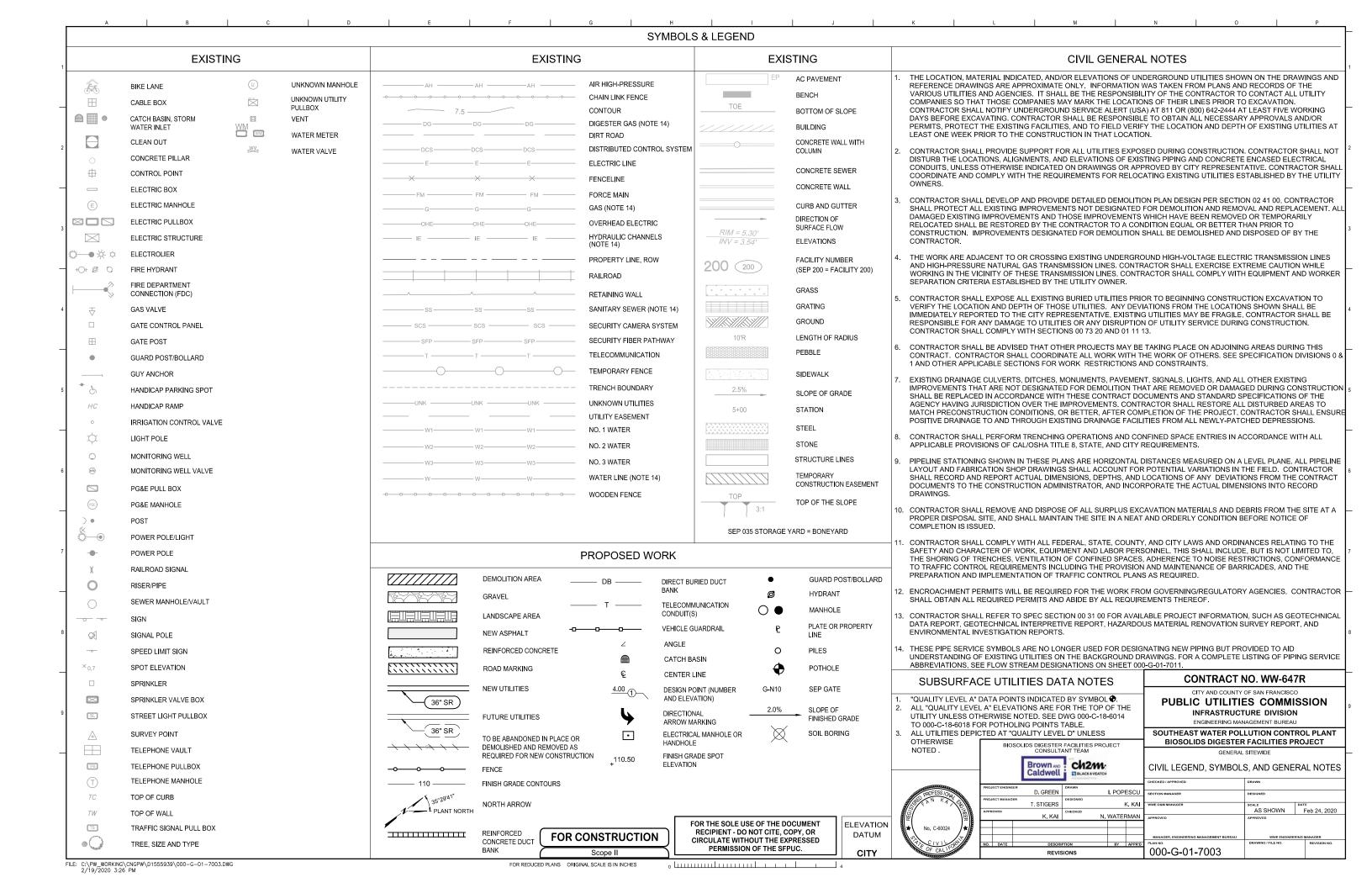
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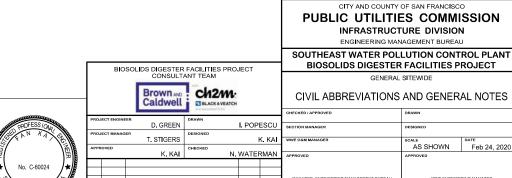


	A AASHTO	AMERICAN ASSOCIATION OF	(E) EA EATUR	EXISTING EACH EMPTY ACCORDING TO	JPB	JOINT POWERS BOARD	RWQCB	REGIONAL WATER QUALITY CONTROL BOARD	OTHER
1	AATUR	STATE HIGHWAY AND TRANSPORTATION OFFICIALS UTILITY ABANDONED	EB EC	UTILITY RECORDS EXPANSION BOLT/ANCHOR END OF CURVE	<u>L</u> L	LENGTH	<u>S</u> s	SOUTH	@ AT # NUMBER
	AAV	ACCORDING TO UTILITY RECORDS AIR AND VACUUM VALVES	ECC ED EDB	ECCENTRIC EDITION ELECTRIC DUCT BANK	LBS LF LG	POUNDS LINEAR FEET LONG	S/C SCAV	SAWCUT AND CONFORM SEWAGE COMBINATION AIR/VACUUM	& AND
	AB AC ACWS	AGGREGATE BASE ASPHALTIC CONCRETE ASPHALT CONCRETE	EF EG EL	EACH FACE EXISTING GRADE ELEVATION	LOX LT	LIQUID OXYGEN LEFT	SCH SCS SEC	SCHEDULE SECURITY CAMERA SYSTEM SECTION	
2	ACP AD	WEARING SURFACE ASBESTOS CEMENT PIPE AREA DRAIN	ELEC EMBED EMH	ELECTRICAL EMBEDMENT ELECTRICAL MANHOLE	M M	MOTOR	SEP SFP	SOUTHEAST WATER POLLUTION CONTROL PLANT SECURITY FIBER PATHWAY	
	ADJ ALIGN ALT ANSI	ADJACENT ALIGNMENT ALTERNATIVE AMERICAN NATIONAL	ENT EOI EORI	ENTRANCE END OF SURFACE GEOPHYSICAL INFORMATION END OF RECORD	MAT'L MAX MDD MECH	MATERIAL MAXIMUM MAXIMUM DRY DENSITY MECHANICAL	SFPW	SAN FRANCISCO PLUMBING CODE SAN FRANCISCO PUBLIC WORKS	
	APPROX ART	STANDARDS INSTITUTE APPROXIMATE ARTICLE	EP EQ	INFORMATION EDGE OF PAVEMENT EQUAL	MEMB MFR'D MGD	MEMBRANE MANUFACTURED MILLION GALLONS PER DAY	SIM SPEC SQ	SIMILAR SPECIFICATION SQUARE	
3	ARV ASTM ASSY	AIR RELEASE VALVES AMERICAN SOCIETY FOR TESTING AND MATERIALS ASSEMBLY	EQUIV EV EW (E), EX	EQUIVALENT ELECTRIC VEHICLE EACH WAY EXISTING	MH MIN MISC MJ	MANHOLE MINIMUM MISCELLANEOUS MECHANICAL JOINT	SS SSD ST STA	STAINLESS STEEL SATURATED SURFACE DRY STREET STATION	
	AWG AWWA	AMERICAN WIRE GAUGE AMERICAN WATER WORKS ASSOCIATION	EXT EXTN	EXTERIOR EXTENSION	MMRP	MITIGATION MONITORING AND REPORTING PROGRAM	STD STL SW	STANDARD STEEL SIDEWALK	
	<u>B</u>		<u>F</u> FABR	FABRICATION, FABRICATE	<u>N</u> N	NORTH	<u>T</u>		
4	BC BDFP	BEGIN OF CURVE BIOSOLIDS DIGESTER FACILITIES PROJECT	FC FDC	OR FABRICATED FACE OF CURB FIRE DEPARTMENT	(N) NBS	NEW NATIONAL BUREAU OF STANDARDS	T TC	TELECOMMUNICATION CONDUITS TOP OF CURB	
_	BF BFP BLDG BLK	BLIND FLANGE BACK FLOW PREVENTER BUILDING BLOCK	FF FG FH	CONNECTION FINISHED FLOOR FINISHED GRADE FIRE HYDRANT	NC NF NIC NID	NORMALLY CLOSED NEAR FACE NOT IN CONTRACT NOMINAL INSIDE DIAMETER	TCA TCDW TCE	TEMPORARY CONSTRUCTION ACCESS TOP OF CURB DRIVEWAY TEMPORARY CONSTRUCTION	
	BLW BOB BOS	BELOW BOTTOM OF BANK BACK OF SIDEWALK	FIG FL FLEX	FIGURE FLOWLINE FLEXIBLE	NO NOM NS	NUMBER NUMBAL NEAR SIDE	TEL TEMP	EASEMENT TELEPHONE TEMPORARY	
5	вw <u>С</u>	BOTH WAYS	FLG FLGD FLR	FLANGE FLANGED FLOOR	NTS NUM	NOT TO SCALE NUMBER	TG THK THRU	TOP OF GRATE THICK OR THICKNESS THROUGH	
	CL CAP CAV	CENTERLINE CAPACITY	FM FO FOC FPC	FORCE MAIN FIBER OPTIC CABLE FACE OF CONCRETE FLEXIBLE PIPE COUPLING	O OC OD	ON CENTER OUTSIDE DIAMETER	TOC TOS TOW TP	TOP OF CURB TOP OF SLAB TOP OF WALL TOP OF PAVING	
6	CB CCSF	COMBINATION AIR VALVES CATCH BASIN CITY AND COUNTY OF SAN FRANCISCO	FPS FT FTG	FEET PER SECOND FEET OR FOOT FOOTING	OHE	OVER HEAD ELECTRICAL LINE	TYP <u>U</u>	TYPICAL	
	CDD CEM CH, CHAP	CITY DISTRIBUTION DIVISION CEMENT CHAPTER	<u>G</u>		PAVMT	PAVEMENT	UE UG	UNDERGROUND ELECTRIC UNDERGROUND	
_	CLR CI CIP	CLEAR CAST IRON CAST-IN-PLACE	G GA GAL	GAS GAGE OR GAUGE GALLON	PCC PE	PORTLAND CEMENT CONCRETE PERMANENT EASEMENT	UGC UL	UNDERGROUND CONDUIT UNDERWRITERS LABORATORIES	
7	CJ CML CMLC	CONSTRUCTION JOINT CEMENT MORTAR LINED CEMENT MORTAR LINED AND COATED	GALV GB GL GND	GALVANIZED GRADE BREAK GRID LINE GROUND	PG&E PI PL PLT	PACIFIC GAS AND ELECTRIC POINT OF INTERSECTION PROPERTY LINE PLANT	UNO UPRR USA	UNLESS NOTED OTHERWISE UNION PACIFIC RAILROAD UNDERGROUND SERVICE ALERT	
	CO COL CONC CONN	CLEANOUT COLUMN CONCRETE CONNECTION	grd <u>H</u>	GRADE	PREFAB PO PP PUE	PREFABRICATED PUSH-ON JOINT POWER POLE PUBLIC UTILITY EASEMENT	<u>V</u>	VALVE	
-	COR CP CPLG	CORNER CONTROL POINT COUPLING	H H/B HDPE	HANDICAP (PARKING) HOSE BIBB HIGH DENSITY	PVC PWC	POLYVINYL CHLORIDE PUBLIC WORKS CODE	VAR VCP VIF	VARIES OR VARIABLE VITRIFIED CLAY PIPE VERIFY IN FIELD	
8	CTR <u>D</u>	CENTER	HDR HGT HH	POLYETHYLENE HEADER HEIGHT HANDHOLE	<u>Q</u> QTY	QUANTITY	VERT W	VERTICAL	
	D DB DCDA	DEPTH DUCT BANK DOUBLE CHECK DETECTOR	HMA HORIZ	HOT MIX ASPHALT CONCRETE HORIZONTAL	$\frac{R}{R}$	RADIUS	W W/ W/O	WEST OR WATER WITH WITHOUT	
	DCS	ASSEMBLY DISTRIBUTED CONTROL SYSTEM	HP HPFS	HIGH PRESSURE HIGH PRESSURE FIRE SYSTEM	RC RCP	REINFORCED CONCRETE REINFORCED CONCRETE PIPE	WD WM WP	WIDTH WATER METER WATER PROOFING	
9	DG DGL DI DIA	DIGESTER GAS DIGESTER GAS LINE DUCTILE IRON DIAMETER	H/P HPN HPND	HIGH POINT HIGH PRECISION NETWORK HIGH PRECISION NETWORK DENSIFICATION	RD RED REF REIN	ROUND REDUCER OR REDUCING REFERENCE OR REFER REINFORCE OR REINFORCED	WS WWF	WATER SURFACE WELDED WIRE FABRIC	
-	DIAG DIP DISCH	DIAGONAL DUCTILE IRON PIPE DISCHARGE	HV HYD	HIGH VOLTAGE HYDRANT	REINF RE-STL REQD	REINFORCEMENT REINFORCING STEEL REQUIRED	1. FOI	<u>VIATIONS NOTES:</u> R PIPING SERVICE ABBREVIATIO SIGNATIONS ON SHEET 000-G-01	
	DPW DR DTL	DEPARTMENT OF PUBLIC WORKS DOOR DETAIL	<u>I</u> ID I.E.	INSIDE DIAMETER THAT IS	RESIL REV RMJ	RESILIENT REVISION RESTRAINED MECHANICAL JOINT		R EQUIPMENT TAG ABBREVIATIO SIGNATIONS ON SHEET 000-G-01	
	DW DWG	DRIVEWAY DRAWING	IN INC INSL	INCH INCORPORATED INSULATION OR INSULATED	RPBP RPO	REDUCED PRESSURE BACKFLOW PREVENTER RESTRAINED PUSH-ON JOINT		E DRAWINGS 000-G-75-8001 TO 0 HEDULE.	00-G-75-8008 FOR PIPING
	<u>E</u> E	EAST	INV IRRG I	INVERT IRRIGATION	RT ROW RWD	RIGHT RIGHT OF WAY REDWOOD	FOI	R CONSTRUCTION	FOR THE SOLE USE OF THE RECIPIENT - DO NOT CITE, CIRCULATE WITHOUT THE E

CIVIL GENERAL NOTES (CONTINUED)

- 15. UNLESS OTHERWISE INDICATED ON THE DRAWINGS, ALL PIPING SHALL HAVE A MINIMUM OF 12" CLEARANCE FROM NEAREST PIPELINE.
- 16. CONTRACTOR SHALL PROVIDE A 36" MINIMUM COVER OR BURY FROM FINISHED GRADE TO TOP OF PIPING UNLESS OTHERWISE SHOWN OR DIRECTED. CONCRETE ENCASE SHALLOWER PIPING PER TYPICAL DETAIL S3201 SUBJECT TO CITY REPRESENTATIVE'S APPROVAL.
- 17. INSTALL DETECTABLE WARNING TAPE AND TRACER WIRE OVER BURIED PIPING IN ACCORDANCE WITH SPECIFICATION SECTION 40 05 45.
- 18. WHENEVER NEW PIPING, CONDUIT, UNDERGROUND STRUCTURE CONFLICTS WITH EXISTING UTILITIES, THE CONTRACTOR SHALL COORDINATE WITH THE EXISTING UTILITIES OWNER FOR RELOCATION AS SHOWN ON THE DRAWINGS. CONTRACTOR SHALL EXPOSE THE EXISTING ITEMS, VERIFY LOCATION AND ELEVATION PRIOR TO FABRICATION OF NEW PIPING OR CONDUIT, AND SUBMIT SHOP DRAWINGS FOR REVIEW BY CITY REPRESENTATIVE. SOME OF THE EXISTING UTILITIES AS SHOWN ON THE DRAWINGS ARE LOCATED FROM AVAILABLE INFORMATION AND ARE SHOWN FOR THE CONTRACTOR'S CONVENIENCE. NOT ALL THE EXISTING UTILITIES ARE SHOWN ON THE DRAWINGS. SUBMITTALS SHALL BE MADE AT LEAST (4) WEEKS PRIOR TO PLANNED INSTALLATION OF NEW FACILITIES. MINIMUM COVER SHALL BE MAINTAINED PER SPECIFICATIONS AND DRAWINGS.
- 19. ALL PIPING JOINTS FOR PRESSURE PIPES SHALL BE RESTRAINED TYPE JOINTS AS SPECIFIED IN PIPING SCHEDULE AND SPECIFICATION. THRUST BLOCKS SHALL NOT BE ALLOWED UNLESS OTHERWISE SHOWN OR DIRECTED BY THE CITY REPRESENTATIVE
- 20. CONTRACTOR SHALL INCLUDE IN HIS BID 40 BOLLARDS AND 20 GUARD POSTS INSTALLED PER DETAIL C3001 AND C3002 RESPECTIVELY. LOCATIONS OF BOLLARDS AND GUARD POSTS SHALL BE DETERMINED IN THE FIELD BY THE CITY REPRESENTATIVE PRIOR TO FINAL GRADING AND PAVING.
- 21. CONTRACTOR SHALL ADJUST NEW AND EXISTING MANHOLE FRAMES AND COVERS TO FINISHED SURFACE ELEVATION PER DETAIL C2029 AND SPEC SECTION 33 05 13 PRIOR TO FINAL GRADING AND PAVING.
- 22. CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING AND MAINTAINING AN EROSION CONTROL PLAN THAT COMPLY WITH REQUIREMENTS IN SPEC SECTIONS 01 57 13 AND 01 57 23. THE CONTRACTOR SHALL AT ALL TIMES MAINTAIN ADEQUATE DRAINAGE PATTERNS AT THE SITE. WATER SHALL NOT BE ALLOWED TO POND OR STAND DUE TO CONTRACTOR'S ACTIVITIES.
- 23. CONTRACTOR SHALL COMPLY WITH ENVIRONMENTAL PROCEDURES RELATED TO THE HAZARDOUS MATERIALS REMOVAL AND DISPOSAL REQUIREMENTS IN SPEC SECTIONS 01 35 43, 01 35 44, 02 27 80, 02 41 00, 02 80 13, 02 81 10, AND 02 81 85.
- 24. FOR NEW NATURAL GAS SERVICE, PG&E IS RESPONSIBLE FOR CONSTRUCTING THE CONNECTION POINT (TEE OR SLEEVE), ISOLATION VALVE, SERVICE LATERAL, AND GAS METER/VAULT PER PG&E STANDARD PLAN AND SPECIFICATION. BDFP CONTRACTOR SHALL BE RESPONSIBLE FOR EXCAVATION, PERMITTING, PAVEMENT RESTORATION, AND ALL PIPING DOWNSTREAM FROM PG&E'S GAS METER.
- 25. UNLESS NOTED OTHERWISE, FOR NEW WATER SERVICE, CDD IS RESPONSIBLE FOR CONSTRUCTING THE CONNECTION POINT (TEE OR SLEEVE), ISOLATION VALVE, SERVICE LATERAL, AND FLOW METER/VAULT PER CDD STANDARD PLAN AND SPECIFICATION. BDFP CONTRACTOR SHALL BE RESPONSIBLE FOR EXCAVATION, PERMITTING, PAVEMENT RESTORATION, AND ALL PIPING DOWNSTREAM FROM CDD'S TERMINATION POINT, INCLUDING THE REQUIRED BACKFLOW PREVENTION DEVICE.
- 26. UNLESS NOTED OTHERWISE, FOR NEW FIRE SERVICE CONNECTION, CDD IS RESPONSIBLE FOR CONSTRUCTING THE CONNECTION POINT (TEE OR SLEEVE), ISOLATION VALVE, AND SERVICE LATERAL TO APPROXIMATELY 1-FOOT BEHIND THE BACK OF CURB PER CDD STANDARD PLAN AND SPECIFICATION. BDFP CONTRACTOR SHALL BE RESPONSIBLE FOR EXCAVATION, PERMITTING, PAVEMENT RESTORATION, AND ALL PIPING DOWNSTREAM FROM CDD'S TERMINATION POINT, INCLUDING THE REQUIRED BACKFLOW PREVENTION DEVICE.
- 27. UNLESS NOTED OTHERWISE, FOR NEW FIRE HYDRANT WITHIN THE PUBLIC RIGHT OF WAY, CDD IS RESPONSIBLE FOR CONSTRUCTING THE CONNECTION POINT (TEE OR SLEEVE), ISOLATION VALVE, LATERAL, RISER, AND HYDRANT.
- 29. UNLESS NOTED OTHERWISE, CDD SHALL BE RESPONSIBLE FOR RELOCATING, ABANDONING, AND REMOVING EXISTING WATER SERVICE AND PIPELINE UNLESS OTHERWISE SHOWN OR DIRECTED BY THE CITY REPRESENTATIVE. FOR CDD STANDARD SPECIFICATION AND DETAILS, SEE HTTPS://SFWATER.ORG/INDEX.ASPX?PAGE=570.
- 30. BDFP CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING, DISINFECTING, AND TESTING OF DRINKING WATER COMPONENTS AND FACILITIES ASSOCIATED WITH THE BDFP PROJECT PER CDD STANDARD SPECIFICATION PRIOR TO BEING PUT INTO OPERATION.
- 31. BDFP CONTRACTOR SHALL BE RESPONSIBLE FOR WATER AND FIRE SERVICES LATERAL EXCAVATION, SHORING, PERMITTING, AND PAVEMENT RESTORATION.
- 32. RIM ELEVATIONS OF PROPOSED SEWER MANHOLES AND CATCH BASINS SHOWN IN THE PIPE PROFILES ARE APPROXIMATE AND SHALL BE ADJUSTED TO CONFORM TO FINISHED GRADE ELEVATIONS.
- 33. ALL WALKING SURFACES PAVING AND ACCESSIBLE ROUTE FINISHES SHALL BE AT LEAST AS SLIP-RESISTANT AS A MEDIUM SALTED FINISH AND CONFORM TO THE SFPW ORDER 176112, WHICHEVER IS MORE RESTRICTIVE.

CONTRACT NO. WW-647R



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FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES

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LANDSCAPE GENERAL NOTES

- 1. ALL WORK TO BE PERFORMED SHALL CONFORM TO ALL APPLICABLE CODES AND ORDINANCES OF GOVERNMENTAL AGENCIES HAVING JURISDICTION OVER THE PROJECT
- 2. PROTECT ALL UTILITIES, IMPROVEMENTS AND STRUCTURES WHETHER SHOWN ON THE DRAWINGS AND RESTORE TO NEW CONDITION AT NO ADDITIONAL COST TO THE CITY IF DAMAGED DURING THE COURSE OF
- 3. COORDINATE ALL WORK TO PREVENT CONFLICTS BETWEEN TRADES AND REPORT CONFLICTS OR INCONGRUITIES BETWEEN NEW IMPROVEMENTS AND EXISTING FACILITIES TO THE CITY REPRESENTATIVE BEFORE STARTING WORK WHICH IS AFFECTED
- 4. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING AND PROVIDING ALL QUANTITIES OF MATERIALS SHOWN ON THE DRAWINGS. QUANTITIES PROVIDED ARE FOR CONVENIENCE ONLY.

LAYOUT NOTES

- 1. VERIFY ALL DIMENSIONS IN THE FIELD PRIOR TO BEGINNING CONSTRUCTION AND REPORT ANY DISCREPANCIES TO THE CITY REPRESENTATIVE BEFORE PROCEEDING.
- 2. WRITTEN DIMENSIONS SUPERCEDE SCALED DIMENSIONS
- 3. ALL DIMENSIONS SHOWN SHALL BE MEASURED HORIZONTALLY.

GRADING NOTES

- 1. VERIFY ALL GRADES IN THE FIELD BEFORE PROCEEDING WITH WORK INCLUDING EXISTING IMPROVEMENTS. ANY DISCREPANCIES SHALL BE REPORTED TO THE CITY REPRESENTATIVE IMMEDIATELY
- 2. ALL GROUND SURFACES IN PLANTING AND PAVING AREAS SHALL BE FINISHED TO UNIFORM GRADE, DRAINING PROPERLY AND FREE OF
- 3. PROVIDE A SMOOTH TRANSITION BETWEEN EXISTING AND NEW GRADES.
- 4 WHERE NEW PAVEMENT ABUTS EXISTING PAVEMENT FINISH GRADES SHALL BE FLUSH UNLESS OTHERWISE NOTED.
- EASE TOP AND TOE OF ALL SLOPES TO PROVIDE SMOOTH TRANSITIONS BETWEEN GROUND PLANES
- 6. THE CITY REPRESENTATIVE RESERVES THE RIGHT TO MAKE ADJUSTMENTS IN THE FINISH GRADES AS THE WORK PROGRESSES.
- 7. THE CONTRACTOR SHALL VERIFY EXISTING GRADES AND SITE CONDITIONS BEFORE PROCEEDING WITH ANY WORK.

PLANTING NOTES

- 1. ALL PLANTING AREAS TO RECEIVE AMENDED SOIL PROFILES. IRRIGATION, AND 3" MULCH LAYER
- 2. ALL TREES TO RECEIVE TREE STAKING

IRRIGATION NOTES

- THE IRRIGATION DRAWINGS ARE DIAGRAMMATIC AND INDICATIVE OF THE WORK TO BE INSTALLED. PIPING, VALVES AND EQUIPMENT SHOWN WITHIN PAVED AREAS ARE FOR CLARITY ONLY, INSTALL WITHIN LANDSCAPE AREAS WHEN POSSIBLE, DUE TO THE SCALE OF THE DRAWINGS, IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS FITTINGS SLEEVES REDUCERS, ETC. WHICH MAY BE REQUIRED, PROVIDE ALL ITEMS SHOWN AND NOT SHOWN TO PROVIDE FOR A COMPLETE AND OPERABLE SYSTEM.
- NOTIFY AND COORDINATE IRRIGATION WORK WITH OTHER DISCIPLINES FOR THE LOCATION AND INSTALLATION OF PIPE CONDUITS OR SLEEVES THROUGH OR UNDER WALLS. ROADWAYS, PAVING, STRUCTURE, ETC. BEFORE CONSTRUCTION. WHERE A CONFLICT MAY EXIST WITH WELL/DOMESTIC WATER AND IRRIGATION LINES, THE WW/DW LINE SHALL HAVE PRECEDENCE. CONTROL VALVE LOCATIONS SHALL BE APPROVED BY THE CITY REPRESENTATIVE PRIOR TO BEGINNING OF WORK
- THE REMOTE CONTROL VALVES SPECIFIED ON THE DRAWINGS ARE OF A PRESSURE REDUCING TYPE. SET THE DISCHARGE PRESSURE FOR EACH VALVE PER IRRIGATION LEGEND FOR A SPECIFIC GROUP OF SPRINKLER HEADS.
- FLUSH AND ADJUST SPRINKLER HEADS FOR OPTIMUM PERFORMANCE AND TO PREVENT OVER-SPRAY ONTO ROADWAYS, AND/OR BUILDINGS. SELECT THE BEST DEGREE OF ARC TO FIT THE EXISTING SITE CONDITIONS AND THROTTLE THE PRESSURE REGULATOR AT EACH VALVE TO OBTAIN THE OPTIMUM OPERATING PRESSURE FOR EACH SYSTEM.
- SET SPRINKLER HEADS PERPENDICULAR TO THE FINISH GRADE OF THE AREA TO BE IRRIGATED UNLESS OTHERWISE NOTED ON THE DRAWINGS
- 6. THE SPRINKLER SYSTEM DESIGN IS BASED ON 40 PSI OPERATING PRESSURE, VERIFY WATER PRESSURE PRIOR TO CONSTRUCTION REPORT ANY DIFFERENCE BETWEEN THE WATER PRESSURE INDICATED ON THE DRAWINGS AND THE ACTUAL PRESSURE READING AT THE IRRIGATION POINT OF CONNECTION TO THE CITY REPRESENTATIVE.
- 7. ALL IRRIGATION PIPING SHALL FOLLOW THE LATEST EDITION OF THE AMERICAN WATER WORKS ASSOCIATION (AWWA) GUIDELINES FOR DISTRIBUTION OF NON-POTABLE WATER STANDARDS FOR PIPING, WARNING TAPE, OUTLETS, HOSE
- PIPE SIZING SHOWN ON THE DRAWINGS IS TYPICAL. AS CHANGES IN LAYOUT OCCUR DURING STAKING AND CONSTRUCTION THE SIZE MAY NEED TO BE ADJUSTED ACCORDINGLY
- THE CONTRACTOR IS RESPONSIBLE FOR COMPLETE, 100% HEAD TO HEAD COVERAGE OF ALL PLANTED AREAS OF THE CONTRACT. ALERT CITY REPRESENTATIVE PRIOR TO COMMENCEMENT OF WORK IF AN AREA WILL REQUIRE EXTRA WORK TO ACHIEVE HEAD TO HEAD COVERAGE OF PLANTED ARFAS
- 10. NOT ALL IRRIGATION EQUIPMENT IS SHOWN ON THE DRAWINGS FOR REASONS OF CLARITY.
- 11. ALL PIPING, SHALL BE SLEEVED WHEN CROSSING UNDER ANY DRIVEWAY AND/OR ROADWAY. REFER TO STANDARD DETAILS FOR INFORMATION.
- 12. TRIM, ADJUST OR ADD SPRINKLER HEADS AS REQUIRED AROUND TREES, LIGHT POLES, STREET SIGNS, MONUMENTS OR FIRE HYDRANTS. SPRINKLER HEAD SPRAY PATTERN SHALL NOT INTERFERE WITH OR DAMAGE THESE ITEMS.
- 13. THE IRRIGATION WORK INCLUDES FIELD-INSTALLED ELECTRICAL WIRING AND CONDUITS BETWEEN THE CONTROLLER AND THE REMOTE CONTROL VALVES. SEE SPECIFICATION 32 80 00 FOR WIRE SIZE AND INSTALLATION.
- 14. THESE DRAWINGS COMPLY WITH THE REQUIREMENTS OF THE WATER EFFICIENT IRRIGATION ORDINANCE AND SECTION F OF THE SAN FRANCISCO PUBLIC UTILITIES COMMISSION RULES AND REGULATIONS GOVERNING WATER SERVICE CUSTOMERS AND THE REQUIREMENTS FOR THE FEFICIENT USE OF WATER IN THIS LANDSCAPE DESIGN PLAN HAVE BEEN APPLIED.

WATER FEATURE GENERAL NOTES

- The drawings and specifications, and all copies thereof, are legal instruments of service for the use of the City and Authorized Representatives on the designated property
- Specifications, which may be bound separately, are part of these Contract Documents.
- The Contractor shall carefully study and compare the drawings prior to construction, and shall at once report to the owner/architect any error, inconsistency, or omission the contractor may discover. If the Contractor performs any work knowing it to be contrary to applicable laws. ordinances, rules and regulations without prior notice to the owner/architect, the contractor shall assume full responsibility, and shall bear all costs attributable thereto.
- The Contractor shall verify all dimensions, elevations and existing conditions prior to starting work and report any discrepancies in writing to City Representative. Any work installed in conflict with the Architectural drawings, shall be corrected by the Contractor at their expense
- The Contractor shall notify a City Representative immediately if needed design information is not
- The Contractor is responsible for the accurate placement and configuration of the water feature
- No deviation from the drawings shall be made without written approval.
- Larger scale drawings take precedence over smaller scale drawings.
- The use of the word "provide" in connection with any item specified is intended to mean that such shall be furnished, installed and connected, where so required, except as noted otherwise
- All material stored on site shall be properly stacked and protected to prevent damage and deterioration until use. Failure to protect materials may be a cause for rejection of work.
- When ± sign is placed adjacent to a given dimension, it indicates that the actual dimension may vary due to existing conditions or that the dimension is not consistent throughout the condition. Verify before proceeding with the work. Discrepancies between the given dimension and actual dimensions are to be brought to Fluidity's attention for the resolution before proceeding with construction.
- 12. The Contractor shall obtain all necessary Permits and Approvals for all construction and work
- 13. The Contractor shall be responsible for scheduling and coordinating the work for all utilities
- All symbols and abbreviations used on the drawings are considered to be construction standards. Questions regarding the same or their exact meaning, shall be directed to a City
- Written dimensions shall take precedence over scale. The Contractor shall not scale drawings The Contractor is to inform a City Representative of errors of dimensioning in the drawings for resolution of intent, which is to be provided by a City Representative, and in a timely manner knowing of the Contractor's need for rapidity during construction

- Prior to submitting shop drawings, the Contractor shall submit for a City Representative review, a Construction Schedule, which details the estimated quantity of shop drawings and the date the shop drawings will be received by the fountain designer. In accordance with the shop drawing schedule, the fountain designer will return the shop drawing items as stipulated project-wide
- The Contractor is to review each submittal prior to forwarding to a City Representative. The Contractor is to sign each submittal verifying that the following is addressed:
- a) The shop drawing is requested
- b) The shop drawing is based on the latest design
- c) The design professional's comments from previous submittals are addressed
- d) The work is coordinated among all construction trades
- e) Revisions from previous submittals are clearly marked by circling or clouds Submittal is complete
- Submittal does not include substitution request
- h) Submittal shall include a stamp indicating project name and location, submittal number, specification section number
- A City Representative shall return, without comment, submittals which the Contractor has not stamped or which do not meet the above requirements. A City Representative's review of submittals shall be for general conformance with the design intent

Refer specifications for items that require submittals and shop drawings for the water feature designer's review

CITY

- Construction tolerance for water feature finishes that deal directly with water performance (i.e weirs) shall be ±1/16". Special exceptions may apply, when resolved with a City Representative and documented in written form
- Where no construction details are shown or noted for a part of the work, such details shall be similar to those shown for similar conditions, and shall be used subject to review and approval by a City
- 3. All finishes plan dimensions are to centerline of paver joints, unless noted otherwise.
- 4. All open joints at removable pavers shall be 1/4", unless noted otherwise
- 5. Contractor shall coordinate with all equipment manufacturer's for equipment rough-in requirements.
- Coordinate and verify with all other trades (i.e. Architectural, Landscape, Structural, Civil, Plumbing Electrical, etc.) the size and location of piping, trenches, sleeves, special bolting for equipment conduit etc., through, under and above concrete slabs.
- All pre-manufactured adjustable payer supports (i.e. Bison Jacks, Buzon Jacks, Paye-El's.) shall be secured in place, as required by manufacturer for said product, in conjunction with waterproofing manufacturer requirements
- 8. Cut stone tolerance shall be ±1/32".
- All finishes shall be uniform regarding material, color, texture, thickness and veining, unless noted otherwise. Veining to be oriented in same direction, unless noted otherwise. Variety in natural materials is understood, but in all cases the latitude of tolerances must be established prior to procurement, such as lightest and darkest allowable colors, etc.
- 10. All removable pavers shall rest firmly on specified supports.
- 11. All removable pavers shall have a minimum thickness of 2", unless noted otherwise
- 12. All stone sealants and cement grouts shall match in color the stones for which they are used. Tool flush and texture similarly to the stone finish, unless noted otherwise
- 13. All stone finishes delivered to job site or cut on site shall be inspected to be free of damage (i.e. nicks, cracks). Damaged stone shall not be installed
- 14. All shims used for leveling shall be water resistant, and must support dead and live loads without deflection. All shims shall be glued in place to fixed surface, or otherwise made permanent
- 15. Stainless steel water troughs shall be welded continuously watertight
- 16. For proper water display, all nozzles shall be placed in the center of their stone opening, unless noted otherwise. Tolerance shall be ±1/8" from center, in any horizontal direction. All nozzles shall be set with a vertical tolerance of ±1/8", unless noted otherwise.
- 17. All nozzles shall be placed in final destination and tested for desired display performance, before applying surrounding finishes. Secure nozzles in place to prevent potential misalignment. Swivel type nozzles shall be secured tightly, and may require spot weldingto assure desired placement
- 18. For proper light display, all lights shall be placed in the center of their stone opening, unless noted otherwise. Tolerance shall be ±1/4" from center, in a horizontal and vertical direction, unless noted otherwise. For angled light displays, refer to drawings for tolerances
- 19. All lights shall be placed in final destination and tested for desired display performance, before applying surrounding finishes. Secure lights in place to prevent potential misalignment
- 20. All stainless steel weirs shall be provided with a slotted opening at fastener location, for adjustability. Weir shall be adjustable in the vertical and direction ±1/2" (12mm). In some instances, horizontal adjustability is also required. Contractor to verify.

Structural

REVISIONS

21. For Water Feature Structural information, refer to Project's Structural Drawings for this portion of the work, see sheets 600-S-20 series and 600-S-05 series of drawings. Water Feature designer's drawings do not cover Structural information and do not represent the Structural Engineering discipline

CONTRACT NO. WW-647R CITY AND COUNTY OF SAN FRANCISC **PUBLIC UTILITIES COMMISSION** INFRASTRUCTURE DIVISION ENGINEERING MANAGEMENT BUREAU SOUTHEAST WATER POLLUTION CONTROL PLANT BIOSOLIDS DIGESTER FACILITIES PROJECT SAN FRANCISCO PUBLIC WORKS BUILDING DESIGN & CONSTRUCTION DIVISION LANDSCAPE NOTES BUREAU OF LANDSCAPE ARCHITECTUR D. ALCANTARA ORTI A. ALFONSO T. ESTERBROOKS N. ANCE AS SHOWN Jan 22, 2021 T ESTERBROOKS J. COOPER

000-G-01-7005

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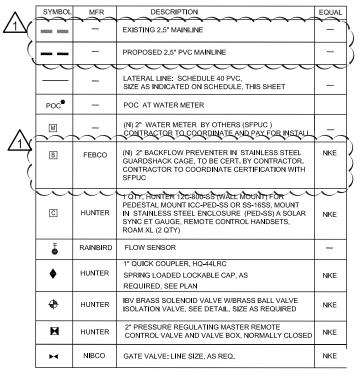
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FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES

PLANTING LEGEND WATER USE COMMON NAME SYMBOL ABBR. BOTANICAL NAME TREES 1 SILKY OAK TREE SEE PLAN MATCHED SPECIES MOD GRE ROB GREVILLIA ROBUSTA MATCHED SPECIES COLUMNAR ENGLISH OAK QUERCUS ROBUR 'FASTIGIATA' QUE ROB MATCHED SPECIES LOW MAG CHA MAGNOLIA CHAMPACA GOLDEN CHAMPACA 36" BOX SEE PLAN EXISTING TREE TO REMAIN EXISTING TREE TO STUMP GRIND SHRUBS / GROUNDCOVER FES MAI FESTUCA MAIREI 'GREENLEE'S FORM' ATLAS FESCUE 1 GAL 24" OC MATCHED SPECIES LOW \odot MATCHED SPECIES LOW DASYLIRION WHEELERI YUCCA BLUE SOTOL 5 GAL 48" OC MATCHED SPECIES LOW 24" OC FLAX LILY DIA TAS DIANELLA TASMANICA MATCHED SPECIES LOW FORTNIGHT LILY DIE VEG DIETES VEGETA \odot CATMINT 36" OC MATCHED SPECIES LOW NEPETA x WALKER'S LOW NEP WAL MATCHED SPECIES LOW ALOE STRIMA CORAL ALOE 5 GAL 36" OC

IRRIGATION LEGEND



VALVE SIZE —1" XX — GPM

SYMBOL	MFR	DESCRIPTION	GPM	EQUAL
ROTATORS				
8 2	HUNTER	POP-UP: PROS-12-MP-MPSS & MP CORNER	.44, .39	NKE
10 OI	HUNTER	POP-UP: PROS-12-END STRIP-L & R	.22, .22	NKE
Δ	HUNTER	POP-UP: PROS-12-MP-1000 (360 & 90-210) Radlus 8'-15'	Q .21/H .42/F .84	NKE
A	HUNTER	POP-UP: PROS-12-MP-2000-(360 & 90-210) Radius 13'-21'	Q .43/H .77/F 1.48	NKE
☆ △	HUNTER	POP-UP: PROS-12-MP-3000-(360 & 90-210) Radius 22' -30'	Q .86/H . 1.82/F 3.64	NKE
BUBBLERS				
•	HUNTER	ROOT WATERING SYSTEM, 36" (2 PER TREE)	.50	RAINBIRD

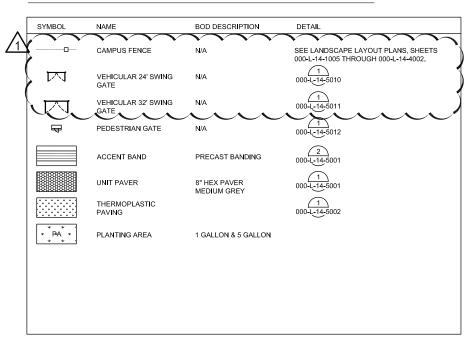
LATERAL PIPING S	SIZE SCHEDULE
GPM	PIPE SIZE (SCH 40 PVC) DOWNSTREAM OF RCV
8 OR LESS	3/4" DIA
13	1" DIA
23	1 1/4" DIA
32	1 1/2" D I A
53	2" D I A
74	2 1/2" DIA
116 OR MORE	3" DIA

QUICK CC	UPLER PIPING SIZES
QC QUANTITY	PIPE SIZE (NOMINAL SCH 40 GS)
1	1 1/4" DIA
2	1 1/2" D I A
3	2" DIA
4	2 1/2" D I A
5	2 1/2" D I A
6 OR MORE	3" DIA

IRRIGATION PIPING DOWNSTREAM OF THE REMOTE CONTROL UNIT SHALL BE SIZED PER THE CHART ABOVE WHEN NOT INDICATED ON THE PLAN DRAWINGS. REFER TO THE IRRIGATION LEGEND FOR SPRINKLER FLOW RATES (GPM), NO PIPING DOWNSTREAM OF THE REMOTE CONTROL VALVE TO THE SPRINKLER SHALL BE SIZED SMALLER THAN THE SPRINKLER THREADED INLET SIZE.

NOTE: QUICK COUPLER PIPING SHALL BE SIZED PER THE CHART ABOVE WHEN NOT INDICATED ON THE PLAN DRAWINGS.

LAYOUT & MATERIALS LEGEND



CONTRACT NO. WW-647R CITY AND COUNTY OF SAN FRANCISCO

PUBLIC UTILITIES COMMISSION

INFRASTRUCTURE DIVISION

ENGINEERING MANAGEMENT BUREAU

SOUTHEAST WATER POLLUTION CONTROL PLANT **BIOSOLIDS DIGESTER FACILITIES PROJECT**

LANDSCAPE LEGENDS

AS SHOWN

Jan 22, 2021

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D. ALCANTARA ORTI A. ALFONSO T. ESTERBROOKS N. ANCI T ESTERBROOKS J. COOPER 000-G-01-7006

SAN FRANCISCO PUBLIC WORKS BUILDING DESIGN & CONSTRUCTION DIVISION

BUREAU OF LANDSCAPE ARCHITECTUR

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Scope II

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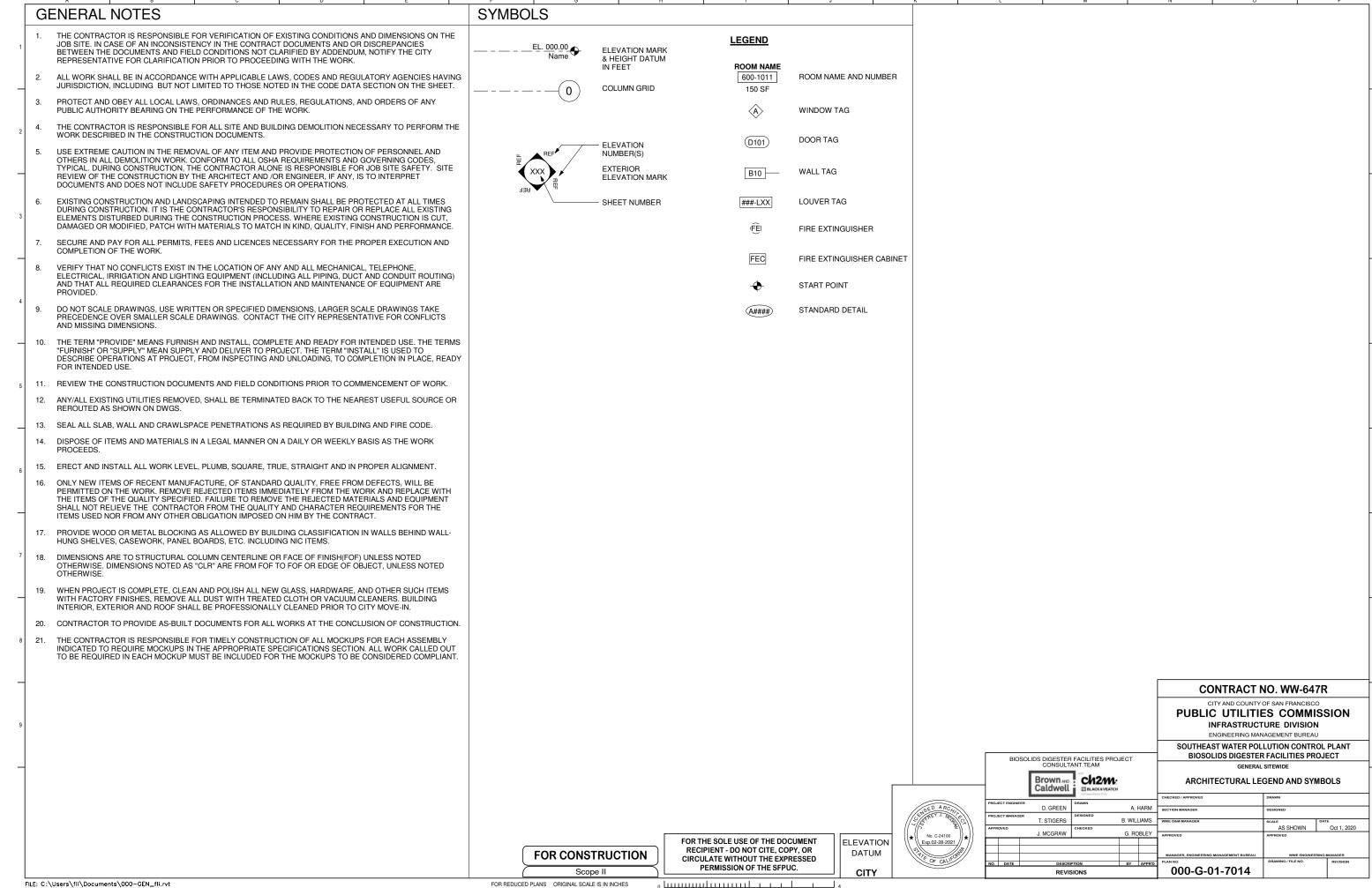


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LANDSCAPE ABBREVIATIONS WATER FEATURE ABBREVIATIONS Α GROUND ROUND **ABBREVIATIONS** REDUCER OR REDUCING GRD GRADE RED AGGREGATE BASE ASPHALTIC CONCRETE INSTRUMENT ABBREVIATIONS AB GS **GALVANIZED STEEL** REF REFERENCE OR REFER (ANSI Y1.1) AC REIN REINFORCE OR REINFORCED HAND SWITCH Н AD AREA DRAIN REINFORCEMENT REINE 0 TIME SWITCH Α ADA AMERICAN DISABILITIES ACT RE-STL REINFORCING STEEL ΚV VALVE CONTROLLED BY TIMER ADJ ADJACENT REQD **REQUIRED** ABOVE LSH LEVEL SWITCH HIGH **OUTSIDE DIAMETER** ADD'L ADDITIONAL HDPE HIGH DENSITY POLYETHELENE RESIL RESILENT LSI LEVEL SWITCH LOW AMERICAN NATIONAL ANSI OPER **OPERATING** AMERICAN NATIONAL STANDARDS INSTITUTE ANSI HDR **HEADER** REV REVISION LSLL LEVEL SWITCH LOW LOW AUX STANDARDS INSTITUTE OWL OPERATING WATER LEVEL HGT HEIGHT RIM RIM FLEVATION LIC LEVEL INDICATING CONTROLLER AUXILIARY APPROX APPROXIMATE HORIZ HORIZONTAL ROW RIGHT OF WAY В Ρ LEVEL ALARM LOW LOW AMERICAN SOCIETY FOR ASTM HIGH POINT **RIGHT** VALVE CONTROLLED BY LEVEL TESTING & MATERIALS HPS HIGH POINT OF SWALE RWD REDWOOD BEL POC POINT OF CONNECTION PSI PRESSURE SWITCH LOW ASSY ASSEMBLY HSS HOLLOW STRUCTURAL STEEL PRESSURE ALARM LOW PAI <u>S</u> BOLT CIRCLE PRESSURE CONTROL VALVE PCV AVE **AVENUE** HV HIGH VOLTAGE PRESSURE INDICATOR BLIND FLANGE PRV PRESSURE REDUCING VALVE AMERICAN WIRE GAUGE AWG HYD HYDRANT PRESSURE TRANSMITTER BOTTOM OF PIPE PSI POUNDS PER SQUARE INCH SEE ARCHITECTRUAL DRAWINGS SAD SPEED TRANSMITTER (ANEMOMETER) BOTTOM В BOT PSV PRESSURE SUSTAINING VALVE SCD SEE CIVIL DRAWINGS BRITISH THERMAL UNITS SPEED INDICATING CONTROLLER RTH PVC POLY VINYL CHLORIDE SCH SCHEDULE BACKWASH MOTOR OVERLOAD BW SEC SED SEG SEP BC BOTTOM OF CURB ID INSIDE DIAMETER SECTION R BFP BACK FLOW PREVENTER INVERT ELEVATION SEE ELECTRICAL DRAWINGS $\underline{\mathsf{C}}$ OTHER INSTRUMENT IDENTIFIERS BLDG BUILDING IN INC INCH SEGMENTS REDUCE INCORPORATED SOUTHEAST WATER POLLUTION BELOW BLW CENTER LINE CL REVOLUTIONS PER MINUTE ON/OFF 0-1 BOC BACK OF CURB INFO INFORMATION CONTROL PLANT RPM HOA HAND/OFF/AUTO CAST IRON BOD BASIS OF DESIGN INSULATION OR INSULATED INSL SQUARE FEET S VOLTAGE TO PRESSURE TRANSDUCER CLG CEILING E/P BR **BOTTOM OF RAMP** INV SGED SEE GEOTECHNICAL CURRENT TO PRESSURE TRANSDUCER CONCENTRIC CONC BS BOTTOM OF STEP IRRG IRRIGATION ENGINEERING DRAWINGS VOLTAGE TO SPEED TRANSDUCER CONTINUATION OR CONTINUED SDWL SHUT DOWN WATER LEVEL SIM BW **BOTTOM OF WALL** SIMII AR CURRENT TO SPEED TRANSDUCER COPPER STAINLESS STEEL SJ SCORE JOINT SMD CUST CUSTOM SUCT SUCTION SEE MECHANICAL DRAWINGS COLD WATER NOTES: SPECIFICATION(S) CW LENGTH **SPECS** Τ CENTERLINE LBS **POUNDS** SQUARE FOR PIPING SERVICE ABBREVIATIONS, SEE FLOW STREAM **CATCH BASIN** LINEAR FEET STAINLESS STEEL TBE THREAD BOTH ENDS DESIGNATIONS ON SHEET 000-G-01-7011. CITY AND COUNTY OF SAN SEE STRUCTURAL DRAWINGS CCSF LOW LIMIT OF WORK SSD DOMESTIC COLD WATER THREAD FOR EQUIPMENT TAG ABBREVIATIONS, SEE EQUIPMENT SSDPWSF STANDARD SPECIFICATIONS OF FRANCISCO ΙP LOW POINT DISCHARGE THREAD ONE END TOE DESIGNATIONS ON SHEET 000-G-01-7011 CAST-IN-PLACE LT CIP DEPARTMENT OF PUBLIC LIGHT WORKS OF SAN FRANCISCO CJ CONSTRUCTION JOINT U Ε M CL CHAIN LINK CLR CLEAR STA STATION ECC **ECCENTRIC** UNO UNLESS NOTED OTHERWISE CO COL CONC CLEANOUT MAT'I MATERIAL STD STANDARD FI EVATION COLUMN MAX MAXIMIIM STL STEEL $\underline{\mathsf{V}}$ ELL FI BOW CONCRETE MECH **MECHANICAI** SIDEWALK SW **EXPOSED** CONT CONTINUOUS MEMB **MEMBRANE** ET CETERA VT VENT FTC CTR MANUFACTURER CENTER MFR VER VERTICAL МН MANHOLE $\underline{\mathsf{D}}$ MIN MINIMIM TOP OF CURB W MISC MISCELLANEOUS TEMP **TEMPORARY** FINISHED FLOOR FIN FL MUNICIPAL TRANSPORTATION TOP OF FENCE DEG DEGREE MTA TF FINISHED GRADE DIAMETER THK THICK OR THICKNESS W/ WITH DIA AGENCY WATER I EVEL WI FLG DIAG DIAGONAL THRU THROUGH Ν FTG DTL TOP OF PIPE W/O WITHOUT FIBERGLASS REINFORCED PLASTIC FRP DWG(S) DRAWING(S) TS TOP OF STEP Ν NORTH TR TOP OF RAME G E (N) NIC TW TOP OF WALL NOT IN CONTRACT TYP TYPICAL GAGE GA NKE Е EAST NO KNOWN EQUAL U EXISTING NO (E) NUMBER NOM NOMINA EXISTING GRADE EG NTS NOT TO SCALE UNO UNLESS NOTED OTHERWISE HOSE BIBB EJ EXPANSION JOINT LIPRR UNION PACIFIC RAILROAD HOSE CONNECTION 0 HC HG HP **ELEVATION** EL MERCURY **ELEC** ELECTRICAL HORSE POWER <u>V</u> ENTRANCE ОС ENT ON CENTER HWC HIGH WATER CUTOFF EQ OD **OUTSIDE DIAMETER** EXT **EXTERIOR** VALVE Р VARIES OR VARIABLE **EXTN EXTENSION** VAR VITRIFIED CLAY PIPE VCP INSIDE DIAMETER ID PA PLANTED AREA VERT VERTICAL INDUSTRIAL COLD WATER PAVMT VERIFY IN FIELD ICW **PAVEMENT** VIF FABR FABRICATION, FABRICATE(D) **PERF** PERFORATED W FINISHED FLOOR PL POB PROPERTY LINE **CONTRACT NO. WW-647R** FFE FINISHED FLOOR ELEVATION POINT OF BEGINNING LOW WATER CUTOFF FG FINISHED GRADE POC POINT OF CONNECTION W WEST CITY AND COUNTY OF SAN FRANCISCO FIG PREFAB FIGURE PREFABRICATED W/ WITH M **PUBLIC UTILITIES COMMISSION** POUNDS PER SQUARE INCH FIN FINISH(ED) W/O WITHOUT FLEX FLEXIBLE PVC POLYVINYL CHLORIDE WATER PROOFING INFRASTRUCTURE DIVISION MEP MECHANICAL ELECTRICAL & PLUMBING FLR FLOOR WU WATER USE ENGINEERING MANAGEMENT BUREAU Q FACE OF CURB WELDED WIRE MESH FOC WWM SOUTHEAST WATER POLLUTION CONTROL PLANT Ν FS FT FINISH SURFACE **BIOSOLIDS DIGESTER FACILITIES PROJECT** Χ QC FEET OR FOOT QUICK COUPLER NOT IN CONTRACT SAN FRANCISCO PUBLIC WORKS FTG **FOOTING** QTY QUANTITY BUILDING DESIGN & CONSTRUCTION DIVISION NORMALLY CLOSED NC TRANSFORMER LANDSCAPE ABBREVIATIONS NORMALLY OPEN G R NO BUREAU OF LANDSCAPE ARCHITECTURE **OTHER** GAI GALLON R. RAD RADIUS D. ALCANTARA ORTI D. FROEHLICH REINFORCED CONCRETE GALV GALVANIZED REINFORCED CONCRETE PIPE J. COOPER C. EIDE GB GRADE BREAK RCP NUMBER AS SHOWN Oct 1, 2020 FOR THE SOLE USE OF THE DOCUMENT No. 5782 FI EVATION RECIPIENT - DO NOT CITE, COPY, OR DATUM REN. 4/30/20: FOR CONSTRUCTION CIRCULATE WITHOUT THE EXPRESSED PERMISSION OF THE SEPUC 000-G-01-7008 CITY Scope II

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A AAF ABOVE ACCESS FLOOR FARRIC METER AAF AB AC ACS ACM ACT AD ADA ANCHOR BOLT FABRICATION MATCH SOUTH ASPHALT CONCRETE FCF FD **FACTORY FINISH** SA SAM SELF ADHERED MAX MC MDF MECH MEMB SELF ADHERED MEMBRANE STYRENE-BUTADIENE-STYRENE **ACCESSIBLE** FLOOR DRAIN MILMIXAM SBS SC SCD SCHED ALUMINUM COMPOSITE MATERIAL FIRE EXTINGUISHER MEDICINE CABINET FE FEC FIRE EXTINGUISHER CABINET ACOUSTIC CEILING TILE MEDIUM DENSITY FIBER BOARD FF FF&E FINISH FLOOR FURNITURE, FINISHES, AND EQUIPMENT AREA DRAIN MECHANICAL SEE CIVIL DRAWINGS AMERICANS WITH DISABILITIES ACT MEMBRANE **SCHEDULE** ADDL ADJ AFF MANUFACTURER SD SEC SMOKE DETECTOR FINE HOSE CABINET MH MJ MANHOLE **ADJACENT** SECTION ABOVE FINISH FLOOR FIG MECHANICAL JOINT SED SEE ELECTRICAL DRAWINGS FIGURE MIN MISC MM AFG ABOVE FINISH GRADE MINIMUM MISCELLANEOUS MILLIMETER SPRAYED FIRE-RESISTIVE MATERIALS SEE HVAC DRAWINGS ALT ALUM ALTERNATE ALUMINUM FIXT SERM FIXTURE SHVACD FLOOR MOD MR MTD AMP SIM FLANGE MODIFIED FLUORESCENT AMERICAN NATIONAL STANDARDS INSTITUTE MOISTURE RESISTANT SHT ANSI FLUOR SHEET APPROX APPROXIMATE FOUNDATION MOUNTED SHTG SHEATHING ARCHITECTURAL FACE OF FACE OF CONCRETE MOUNTING SHWR SHOWER
SEE LANDSCAPE DRAWINGS ARCH MTL MULL METAL MULLION ASSY ASSEMBLY FOC SLD SLV ASTM AMERICAN SOCIETY FOR TESTING AND FOF FACE OF FINISH SLEEVE FOM FACE OF MASONRY SEE MECHANICAL DRAWINGS ATD AV SMS SOCD AIR TRANSFER DUCT SHEET METAL SCREW SEE ODOR CONTROL DRAWINGS FOS FACE OF STEEL FACE OF WALL NORTH AUDIO VISUAL FOW AVG FP FRP SOG SP SLAB ON GRADE (N) N/A ND NIC NO NOM NR NTS FIBER REINFORCED PLASTIC NOT APPLICABLE STANDPIPE FS FT FTG FURR FIRE SHUTTER SPD SEE PLUMBING DRAWINGS NAPKIN DISPENSER BOARD SS SSD SEE STRUCTURAL DRAWINGS FOOTING BLDG BUILDING NUMBER NOMINAL BLOCKING **FURRING** ST BLK SOUND TRANSMISSION CLASS BO BOC BOS BOTTOM OF **FUTURE** NOT RATED STC BOTTOM OF CONCRETE BOTTOM OF STEEL STD STL STR NOT TO SCALE STANDARD STRUCTURE/STRUCTURAL BOT BOTTOM GAUGE GAL GALV SUR SUSP BUR **BUILT-UP ROOF** GALLON OVER SUBBOUNDS SUSPENDED BYND B/T GAI VANIZED OVER ALL REYOND GAL GB GC GD GL GND GRAB BAR ON CENTER GENERAL CONTRACTOR OUTSIDE DIAMETER <u>**T**</u> TBD TO BE DETERMINED GARBAGE DISPOSAL OPPOSITE HAND OPENING TCD TOILET (SEAT) COVER DISPENSER CHANNEL OPP OPT ORIG TDD TEL TEMP CENTER TO CENTER
CABINET OPPOSITE CTOC GROUND (PAPER) TOWEL DISPENSER/DISPOSAL GALLONS PER MINUTE GPM OPTIONAL TELEPHONE CBC CALIFORNIA BUILDING CODE GSM GALVANIZED SHEET METAL ORIGINAL CER CFM CG CGL CIP CJ CLG CERAMIC
CUBIC FEET PER MINUTE GYPSUM GYPSUM WALL BOARD THK THRU OS OSB OUTSIDE THICKNESS ORIENTED STRAND BOARD THROUGH OSD OPEN SITE DRAIN TO CORNER GUARD TOC TOP TOSTL OSOI OSCI OWNER SUPPLIED & OWNER INSTALLED COLUMN GRID LINE TOP OF CONCRETE CAST IN PLACE HEIGHT OWNER SUPPLIED & CONTRACTOR TOP OF PIPE HB HC HCP HDO CONTROL JOINT HOSE BIB TOP OF STEEL INSTALLED TOS TPO TPD TOP OF SLAB
THERMOPLASTIC POLYOLEFIN ROOFING CEILING HOLLOW CORE CLOS CLR <u>P</u> PDBD CLOSET HANDICAPPED HIGH DENSITY OVERLAY TOILED PAPER DISPENSER CLEAR PARTICLE BOARD CM CMU CENTIMETER PE PERF PLAN END TRANS TYP TRANSFORMER TYPICAL CONCRETE MASONRY UNIT PERPENDICI II AR HORIZ HORIZONTAL CNTR COUNTER НМ HOLLOW METAL PENTHOUSE PH CO COL CONC <u>U</u> UG UL CLEANOUT PLATE PLASTIC HOLLOW STRUCTURAL SECTION COLUMN CONCRETE HSS PL PLAM LINDERGROUND UNDERWRITERS LABORATORIES HT PLASTIC LAMINATE HEIGHT COND CONDITION **HVAC** HEATING, VENTILATION, & AIR PLYWOOD UNO UNLESS NOTED OTHERWISE CONT PNL POLYISO PANEI CONTINUOUS CONDITIONING US UNDERSIDE CONST CONSTRUCTION HZ POLYISOCYANURATE INSULATION HERTZ COORD COORDINATE PR PRESS <u>V</u> CPLG COLIPLING. PRESSURE VOLTS VERTICAL PROVD CARPET PROVIDED VERT INSIDE FACE VINYL COMPOSITION TILE CONTRACTOR SUPPLIED & CONTRACTOR CSCI POUND PER SQUARE INCH INCHES PSIG PT PTD POUND PER SQUARE INCH GAUGE INSTALLED INT INTERIOR VIF VERIFY IN FIFI D CT CERAMIC TILE PRESSURE TREATED VIN SHEET VINYL INST INSTALL CTR CTSK CU CENTER PAINTED VEST INSUL INSULATION COUNTER SUNK PAPER TOWEL DISPENSER PTTD PTN CUBIC **PARTITION** <u>J</u> JAN **JANITOR** POLYVINYL CHLORIDE WIDTH WC WD WATER CLOSET DOUBLE Q QTY WOOD DEG DEMO DF DEGREE DEMOLITION QUANTITY WDW WINDOW KILOGRAM WITH DOUGLAS FIR R (R) RAD RCP RD REINF RQD WITHOUT W/O KS KNEE SPACE DIA DIM DISP DIAMETER REMOVE WO WHERE OCCURS DIMENSION DISPENSER REFLECTED CEILING PLAN LENGTH LIQUID APPLIED MEMBRANE <u>∠</u> ZCM DN LAM ROOF DRAIN ZINC COMPOSITE METAL DOWNSPOUT REINFORCING/REINFORCEMENT DS DET LBS LF LOC LVL **CONTRACT NO. WW-647R** DETAIL LIGHT FIXTURE REQUIRED **OTHER** DW DISHWASHER REQUIREMENTS LOCATION REQS CITY AND COLINTY OF SAN FRANCISCO REV REF REFR DWG DWR DRAWING DRAWER REVISION REFERENCE LEVEL **PUBLIC UTILITIES COMMISSION** LUXURY VINYL TILE **ANGLE** ò REFRIGERATOR DIAMETER INFRASTRUCTURE DIVISION FEET (OR MINUTES FOR ANGLES) ENGINEERING MANAGEMENT BUREAU **EXISTING** RF RM RO RESILIENT FLOORING INCHES (OR SECONDS FOR ANGLES) PLUS MINUS SYMBOL (APPROX) SOUTHEAST WATER POLLUTION CONTROL PLANT EACH ROOM EJ ELEC ELEV EXPANSION JOINT ROUGH OPENING BIOSOLIDS DIGESTER FACILITIES PROJECT BIOSOLIDS DIGESTER FACILITIES PROJECT CONSULTANT TEAM ENCL EOS EQ Brown AND ch2m ARCHITECTURAL ABBREVIATIONS **ENCLOSED** Caldwell **EDGE OF SLAB EQUAL** EQUIP EVTR EQUIPMENT A. HARM D. GREEN **ELEVATOR** T. STIGERS B. WILLIAMS **EXPANSION** AS SHOWN Oct 1, 2020 EXT G. ROBLE No. C-24100 FOR THE SOLE USE OF THE DOCUMENT ELEVATION Exp.02-28-2021 RECIPIENT - DO NOT CITE, COPY, OR DATUM FOR CONSTRUCTION CIRCULATE WITHOUT THE EXPRESSED DESCRIPTION PERMISSION OF THE SEPUC 000-G-01-7015 CITY

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FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES

DISIBILITY ACCESS	COMPLIAN	NCE FOR	RM									TITLE 2	4 ENVELOP	E FORMS												
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N. 1.	1 1	DISAF	BILITY	ACC	ESS C	ОМР	LIANC	E FOR	CITY	PROJECTS		CEC-NRC	C-ENV-01-E (Revi	ised 01/16)		2.21						CALIFORNIA EN	NRCC-ENV-01-E			
2.KMRS										their plans.			pe Componen										Page 2 of 7			
SAN FRANCISCO		7.5	For A	lterations	s, add SF D	DBI - DA-0	02 checklist	t & form(s)	as applica	able		Project Nam	Bldg 600 - 5	Southeast Water P	ollution Contro	l Plant Biosolids	s Digester Faciliti	ies Project			Date Prepare	^{d:} 7/25/19				
PUBLIC WORKS		Biosoli	ds Diges	ter Facilit	ties								T				terior or Core	Continuous		dix JA4 rence						
London N. Breed Mayor		Southe	ast Plan	t - Bldg 6	00							Tag/ID	Assemb			(inches)	Insulation R-Value	Insulation R-Value	Table	Cell		Required U-Factor from Tables 140.3-B, C, or D	Field Inspection Comments			
Alaric Degrafinried			Leave Ar	ea Below B	Blank – for I	PW BDC Di	isability Acc	cess Coordin	nator (DAC)) Staff Use		Roof	103	Lancar Lancar	c/Mtl Deck	8.5		30	4.2.6	J5	0.031	.039				
Acting Director		DESIG	N PHAS	E: Publi	c Works	Building	g Design	and Cons	truction	DAC has reviewed	& approved:	Add F	Row Remo	ove Last										_		
Julia Laue, AIA LEED A Principal Architect	AP	□ P	re-applic	ation me	eting(s) /	site perr	mit reviev	v					ELOPE DETA			T0		1 2330		т			00000			
& Bureau Manager							feasibility	Request f	forms			01	02	03	04	05	06	07		08 ndix JA4	09	10	11			
Arfaraz Khambatta, C	CASp				ventory for								Mass	Density	Mass Thickness	Furring Str Thicknes			Refe	rence	Dranacad	Required U-Factor from Tables 140.3-B,	Field Inspection			
Disability Access Coor	rdinator	□ E	lements	exempt f	rom acce	ssibility r		ents, per 1				Tag/ID	Type	(lb/ft ³)	(inches)	(inches)		STATE OF THE PERSON NAMED IN COLUMN	SS	Cell	Proposed U-Factor	C, or D	Comments			
and a supplied and a supplied of the supplied										fecting accessibility el	ements	22" Con-	Solid Conc	144	22.75	N/A	0	0	4.3.6	J5	0.63	0.65				
Building Design and Construction		☐ FIN	AL CON	STRUCTION	ON PLAN	NS FOR P	PERMIT A	PPLICATI	IONS						71.00000 0000000000000000000000000000000	200					The contract of			-		
30 Van Ness Ave. Ste. San Francisco, CA 941		CONS	TRUCTI	ON PHA	ASE: The	e followi	ing inspe	ctions, if	selected	l, are required:	· · · · · · · · · · · · · · · · · · ·	18" Con	Solid Conc	144	18.75	N/A	0	0	4.3.6	J5	0.63	0.65				
(415) 557-4676 Arfaraz.Khambatta@s		- nou	CU 50.4					inspection(******			Floor	Solid Conc	144	12	N/A	0	0	4.4.6	A1	0.269	0.269				
A Taras Namiballage										e, prior to cover prior to fabrication		12" Con	Solid Conc	144	12	N/A	0	0	4.3.6	J5	0.63	0.65				
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							gnage per d accessib		56.19			E POO	EING PRODU	ICTS (COOL RO	OE)											
			Off-site c	urb ramp	s, blue zo	one parki	ing spaces	and passe		iding zones		01	02	03		04	05	06	07	08	09	10	11			
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												Addi	Row Remo	ove Last												
												-		ance less than 0				f/ceiling U-fac	ctor in TABLE	140.3 is not	exceeded		Vi.			
ENVELOPE COI CEC-NRCC-ENV-01-E (Revi CERTIFICATE OF COM Envelope Componen Project Name: Bldg 600 - 3	MPLIANCE nt Approach			t Biosolids Dig	gester Facilitie	ies Project			Date Prepa	CALIFORNIA ENE	NRCC-ENV-01-E Page 1 of 7															
A. GENERAL INFOR	MATION										1															
01 Project	t Location:	750 PI	helps St.				06	Compliance I	Method:	✓ Component ✓ Unconditioned (file)	Affidavit)															
02 CA City a	nd Zip Code:	San Fr	rancisco, 94	124			07 Bu	ilding Front C	Orientation:		80															
03 Clima	ate Zone:			3			08	hase of Cons	struction:	New Construction Additions																
04 Total Condition	aned Floor Ar	rea: 20 22	c cc				09	Building Occ	upanor.	☐ Alteration ☐ Nonresidential ☐ High Rise Residentia	r:															
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05 Buildi	ing Type:									Spaces 📝 Uncondition -04-E with submittal)	icu apaces															
B. ENVELOPE DETA	ILS - FRAME	ED				2.50	00			<u> </u>																
01 02	2	03	04	05	06	07	Ani	08 pendix JA4	09	10	11															
5455 St. 100	1000	Frame	Frame	Frame	Cavity	Continue	ious	eference	Proposed	Required d U-Factor from Tables	Field Inspection															
Tag/ID Assembl	3012	Material	Depth	Spacing	R-value	e R-valu	0.000	o Prosess	U-Factor	140.3-B, C, or D	Comments															
F2 Wa	50	Metal	6	24	R19	R2			0.123	0.151																NO. WW-647R
H2 Wa	all	Metal	6	16	R19	R2	4.3.3	В6	0.134	0.151																OF SAN FRANCISCO ES COMMISSION
10.5" Fbr Cmnt Wa	off	Metal	6	16	R19	R8	4.3.3	G6	0.074	0.082															INFRASTRUC	TURE DIVISION
A2 Wa	all	Metal	6	16	R19	0	4.3.3	A6	0.183	0.151																NAGEMENT BUREAU LLUTION CONTROL PLANT
12" Wa	all	Metal	4 (dbl)	16	0	0	4.33	A1	0.229	0.069	Double wall U-factor per JA4.1.2.4											BIOSOL	IDS DIGESTER FACILITIES CONSULTANT TEAM	PROJECT	BIOSOLIDS DIGESTE	R FACILITIES PROJECT
Add Row Remo	ove Last										-												Brown AND Ch2	w.	DISABILITY ACCESS	L SITEWIDE &TITLE 24 ENVELOPE
C. ENVELOPE DETA							_				-											_	Caldwell BLACK & V	EATCH	FOR CHECKED / APPROVED	MS-600
01 0)2	03	04		05	06		07	08	09	10									//	SED ARCHI	PROJECT ENGINEER	D. GREEN DRAWN	A. HARM		DESIGNED
																					EKEN T WORK	PROJECT MANAGER	T. STIGERS DESIGNED	A. HARM	WWE O&M MANAGER	SCALE DATE AS SHOWN Oct 1, 20
CA Building Energy Eff	ficiency Standa	ards - 2016 N	lonresidentia	l Compliance							January 2016	-		E	OR THE SOL	F USF OF TH	HE DOCUMEN	IT [EVATION	 	No. C-24100) ★) APPROVED	J. MCGRAW	G. ROBLEY	APPROVED	AS SHOWN OCT 1, 20
											and open to the last	FOR CONST	RUCTIO	AI I	RECIPIENT -	DO NOT CIT	ΓΕ, COPY, OR	:	_EVATION DATUM		xp.02-28-2021				MANAGER, ENGINEERING MANAGEMENT BUREAU	WWE ENGINEERING MANAGER
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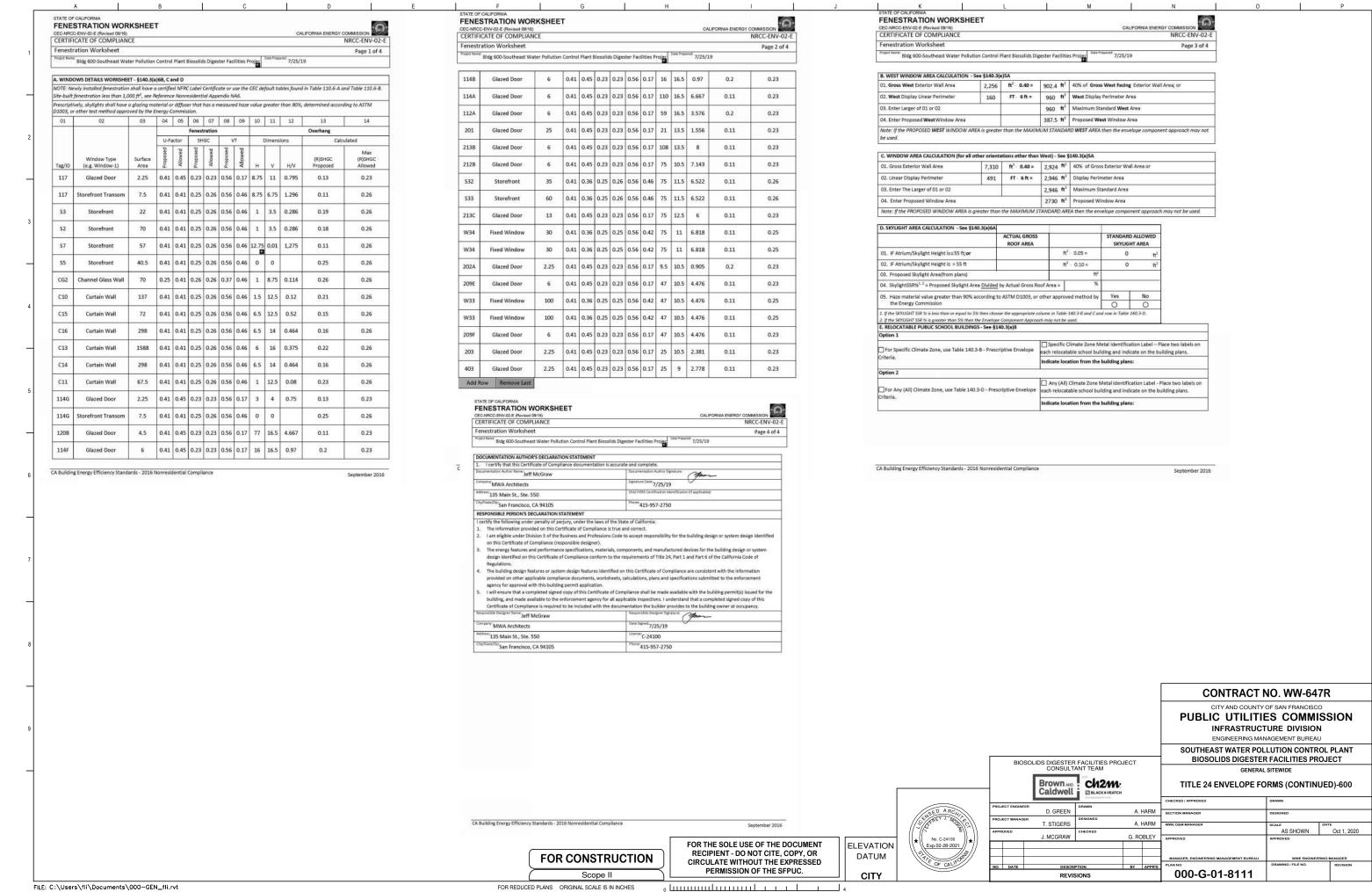
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FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES

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Visible Control Cont				er Bellisten Con	and News Size	entide Discos	e e Frankliki e Pr			Data Prep	seredia par la o	Page 4 of 7		- 35 - 3555	tos Dellutino Con	and Mana Man	cellula Piloces	oo Footblee Books	40			Date Prepared:	- (a.o.	Page 5
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	Reflectance and thermal emittance requirements	53	Storefront	22	West	1	0.41	.19	.56	NFRC Yes	New		114A	Glazed Door	6	West	1	0.41 .	11	0.56	NFRC	Yes	New	Interior glazing
	emittance requirements	S2	Storefront	70	South	4	0.41	.18	.56	NFRC Yes	New		112A	Glazed Door	6	North	1	0.41	20	0.56	NFRC	Yes	New	Interior glazing
State Column Co	The roof area covered by building integrated photovoltaic panels and building integrated solar thermal panels are exempt from aged Solar Reflectance and thermal emittance requirements	57	Storefront	57	South	4	0.41	.11	.56	NFRC Yes	New	Window onto covered balcony	201	Glazed Door	25	East	4	0.41 .	11	0.56	NFRC	Yes	New	Door onto covered ba
Company Comp	To apply Liquid Field Applied Coatings, the coating must be applied across the entire roof surface and meet the dry mil thickness or coverage commended by the coatings manufacturer and meet minimum performance requirements listed in §110.8(i)4. Select the applicable coating:	55	Storefront	40.5	North	2	0.41	.25	0.56	NFRC No	New		213B	Glazed Door	6	East	1	0.41 0	.11	0.56	NFRC	Yes	New	Interior glazing
The content of the	Aluminum-Pigmented Asphalt Roof Coating Cement-Based Roof Coating Other		-24000000000000000000000000000000000000	L. C.		2		100000					SCHOOL STATE	Valley of the same	6	144,6000			185000	1000000	955155	0.00	4980010	50.00000000000000000000000000000000000
Column C	OTES: Check the box if the aged Solar Reflectance was not available in the Cool Roof Council's Rated Product Directory, then use the equation in Section 110.8(i)2: paged = 0.2 + 8(pinitial - 0.2) to obtain a	-	10033020237637691	The services	(Wests)		550000	5388	0000	/magas	177			\$2954 (C+ 1104V)		0/26-00		170,000	9200	- Marines	approved 1	Only 1	Description	25 45 20000000-001-00-0
Marie Mari	culated aged salar reflectance value. Where Pinitial is the Initial Salar Reflectance found in the directory and 6 is either 0.65 for Field applied coatings or 0.70 for all other raofing products other an Field-Applied Coating.	C10	Curtain Wall	137	East	8	0.41	.21	.56	NFRC Yes	New		532	Storefront	35	East	2	0.41 0	.11	0.56	NFRC	Yes	New	Interior glazing
State Stat	Calculate the SRI Value by using the SRI-Worksheet and enter the resulting value in the SRI calumn above and attach a copy of the SRI-Worksheet (NRCC-ENV-03-E) to this compliance document.	C15	Curtain Wall	72	East	4	0.41	.15	.56	NFRC Yes	New		\$33	Storefront	60	East	3	0.41 0	.11	0.56	NFRC	Yes	New	Interior glazin
March Marc	AIR BARRIER	C16	Curtain Wall	298	East	12	0.41	.16	.56	NFRC Yes	New		213	Glazed Door	13	East	2	0.41 0	.11	0.56	NFRC	Yes	New	Interior glazing
No.	Air Barrier Air Barrier Whole Building	C13	Curtain Wall	1588	North	65	0.41	.22	.56	NFRC Yes	New		W34	Fixed Window	30	East	2	0.41 0	.11	0.56	NFRC	Yes	New	Interior glazing
Section Part	1000	C14	Curtain Wall	298	West	12	0.41	.16	.56	NFRC Yes	New		W34	Fixed Window	30	East	2	0.41 0	.11	0.56	NFRC	Yes	New	Interior glazing
Not be a		C11	Curtain Wall	67.5	West	4	0.41	.23	.56	NFRC Yes	New		202A	Glazed Door	2.25	North	1	0.41 0	20	0.56	NERC	Yes	New	Interior glazing
Second Companies Second Comp			55845 1970W	1 10000	V/c vz		200000		EASE TO SE	Les-200 COOK	0.0	-		2940 - Nexter		2741200		92000 80		2000000		9790 m	0.5	100 mm - 100 mm
1			11.180.001.510.511.29.92.5			1									6		1							Interior glazing
The control of the		114G	Fixed Transom	7.5	2000000	1	0.41	0.25	.56	NFRC Yes	New		W33	Fixed Window	100	West	4	0.41 0	.11	0.56	NFRC	Yes	New	Interior glazing
		120B	Glazed Door	4.5	West	2	0.41	0.11	.56	NFRC Yes	New	Interior glazing	W33	Fixed Window	100	West	4	0.41 0	.11	0.56	NFRC	Yes	New	Interior glazing
Superhand Frame Fr		114F	Glazed Door	6	North	1	0.41	.20	.56	NFRC Yes	New	Interior glazing	209F	Glazed Door	6	West	4	0.41 0	.11	0.56	NFRC	Yes	New	Interior glazing
ELIPPE COMPONENT APPROACH See dead from 2.25 South 1 CAL 101 8.56 NPSC Vss New Interior gaining See the second of the second o	7 Sharefront Transport 7.5 East 1 0.41 11 55 NEDC Vac Nav	1148	Glazed Door	6	North	1	0.41	.20	.56	NFRC Yes	New	Interior glazing	203	Glazed Door	2.25	South	1	0.41 0	.11	0.56	NFRC	Yes	New	Interior glazing
ELOPE COMPONENT APPROACH COLVENTION TO COMMUNICATION TO COLVENTION TO COLVENTION TO COMMUNICATION TO COLVENTION TO COLVENTIO	2 304 14 30 110 12													XXXXX 4400.00.100.000										0.0000000000000000000000000000000000000
ate location on building plans of Mandatory Envelope Measures Note Block: 000-G-01-8109 BIRCTENN TO APPLICANT ENVELOPE COMPUANCE & WORKSHEETS (check box if worksheet are included) REPORT IN RECENTAGE OF Compliance, please refer to the Energy Commission website. INRCE-ENV-OB-E Use when minimum skylight requirements for large endosed spaces are required in climate zones 2 through 15. Optional on plans. INRCE OBJECT OF Compliance in transport of the Current Compliance in the Current Code to accept responsibility for the building design or system design identified on this Certificate of Compliance are consistent with the information provided on other applications. The propriet of the Current Code is accept responsibility for the building design or system design identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance or system design identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance or system design identified to the information provided on other applicable compliance are consistent with the information provided on other applicable compliance are consistent with the information provided on their certificate of Compliance are consistent with the information provided on their certificate of Compliance are consistent with the information provided on their certificate of Compliance are consistent with the information provided on their certificate of Compliance are consistent with the information provided on their certificate of Compliance are consistent with the information provided on their certificate of Compliance are consistent with the information provided on the applicable compliance are consistent with the information provided on their certificate of Compliance are consistent with the information provided on their certificate of Compliance are consistent with the information provided on their certificate of Compliance are consistent with the information provided on their cer	ENVELOPE MANDATORY MEASURES		Company: MWA Architects	ts					Sign	nature Date: 7/25/19	<i>O</i>													
RUCTIONS TO APPLICANT ENVELOPE COMPLIANCE & WORKSHEETS (check box if worksheet are included) RESPONSIBLE PRESONS DELIARATION STATEMENT I certify the following under penalty of perjury, under the laws of the State of Coliforniae: I hRCC-ENV-OL-E Use when minimum skylight requirements for large enclosed spaces are required in climate zones 2 through 15. Optional on plans. NRCC-ENV-OL-E Use when minimum skylight requirements for large enclosed spaces are required in climate zones 2 through 15. Optional on plans. NRCC-ENV-OL-E Use when minimum skylight requirements for large enclosed spaces are required in climate zones 2 through 15. Optional on plans. NRCC-ENV-OL-E Use when minimum skylight requirements for large enclosed spaces are required in climate zones 2 through 15. Optional on plans. NRCC-ENV-OL-E Use when minimum skylight requirements for large enclosed spaces are required in climate zones 2 through 15. Optional on plans. NRCC-ENV-OL-E Use when minimum skylight requirements for large enclosed spaces are required in climate zones 2 through 15. Optional on plans. NRCC-ENV-OL-E Use when minimum skylight requirements for large enclosed spaces are required in climate zones 2 through 15. Optional on plans. NRCC-ENV-OL-E Use when minimum skylight requirements for large enclosed spaces are required in climate zones 2 through 15. Optional on plans. NRCC-ENV-OL-E Use when minimum skylight requirements for large enclosed spaces are required in climate zones 2 through 15. Optional on plans. NRCC-ENV-OL-E Use when minimum skylight requirements for large enclosed spaces are required in climate zones 2 through 15. Optional on plans. NRCC-ENV-OL-E Use when minimum skylight requirements for large enclosed spaces are required in climate zones 2 through 15. Optional on plans. NRCC-ENV-OL-E Use when minimum skylight requirements for large enclosed spaces are required in climate zones 2 through 15. Optional on plans. NRCC-ENV-OL-E Use when minimum skylight requirements for large enclosed spaces are required in c	ENVELOPE MANDATORY MEASURES								CEA	V HERS Certification iden	ntification (if applicable	k												
I certify the following under penalty of perjury, under the lases of the State of California: INRC-ENV-01-E NRC-ENV-04-E Use when minimum skylight requirements for large enclosed spaces are required in climate zones 2 through 15. Optional on plans. In the information provided an only certificate of Compliance is true and correct. As an elegible under Division 5 of the Sustaines and Protections Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designs). In the information of the sustaines and Protections Code to accept responsibility for the building design or system design identified on this Certificate of Compliance is true and correct. In the information of a design of the sustaines and Protections Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designs). In the information provided an other applications. In the building design or system design identified on this Certificate of Compliance or system design identified on this Certificate of Compliance or system design identified on this Certificate of Compliance or system design identified on this Certificate of Compliance or system design identified on this Certificate of Compliance or system design identified on this Certificate of Compliance or system design identified on this Certificate of Compliance or system design identified on this Certificate of Compliance or system design identified on this Certificate of Compliance or system design identified on this Certificate of Compliance or system design identified on this Certificate of Compliance or system design identified on this Certificate of Compliance or system design identified on this Certificate of Compliance or system design identified on this Certificate of Compliance or system design identified on this Certificate of Compliance or system design identified on this Certificate of Compliance or system design identified on this Certific	cate location on building plans of Mandatory Envelope Measures Note Riory, 000-G-01-8109		The second secon						-	interior and the second														
NRCC-ENV-04-E Use when minimum skylight requirements for large enclosed spaces are required in climate zones 2 through 15. Optional on plans. 1. If we here y features on yellow performance specifications, metal-size of compliance conforms the building design or system design identified on this Certificate of Compliance conforms the requirements for large enclosed spaces are required in climate zones 2 through 15. Optional on plans. 2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance conforms to the requirements for large enclosed spaces are required in climate zones 2 through 15. Optional on plans. 3. The energy features or system design identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worsharets, calculations, possing respectively for sparsal with this building permit application. 5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available to the enforcement agency of all applicable interpretations, understand that a completed signed copy of this Certificate of Compliance shall be made available to the enforcement agency of all applicable interpretations. 8. Responsible Designer Signature 2. I am eligible under Division 3 of the Business and Professions, separate devices for the building design or system design identified on this Certificate of Compliance of	94.10				ON STATEME	NT			Pho	ine:415-957-2750			-											
The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1, and Part 6 of the California Code of Regulations. 4. The building design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance downers, we worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building, permits) spus design in the provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance shall be made available with the building with the building with the building worker at occupancy. Responsible Designer Name Jeff McGraw Company MWA Architects Address: 135 Main St., Ste. 550 Unemer C-24100	TRUCTIONS TO APPLICANT ENVELOPE COMPLIANCE & WORKSHEETS (check box if worksheet are included)		RESPONSIBLE PERSON' I certify the following u	'S DECLARATION	of perjury, un	der the law:	s of the State	of California	Pho	415-957-2750														
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FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES



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STATE OF CALIFORNIA SOLAR REFLECTANCE INDEX CALCULATION WORKSHEET CALIFORNIA ENERGY COMMISSION SOLAR REFLECTANCE INDEX CALCULATION WORKSHEET CALIFORNIA ENERGY COMMISS CERTIFICATE OF COMPLIANCE NRCC-ENV-03-E CERTIFICATE OF COMPLIANCE Solar Reflectance Index Calculation Worksheet (Page 1 of 2) Solar Reflectance Index Calculation Worksheet Project Name: Bldg 600 - Southeast Water Pollution Control Plant Biosolids Digester Facilities Date Prepared: 7/25/19 Project Name: Bldg 600 - Southeast Water Pollution Control Plant Biosolids Digester Facilitie Date Prepared: 7/25/19 A. Product Information DOCUMENTATION AUTHOR'S DECLARATION STATEMENT 01 CRRC Product ID Number 0700-0022 | Certify that this Certificate of Compliance documentation is accurate and complete
| Complete | Compliance | Compliance | Compliance | Complete | Comple Garland 02 Manufacturer 03 Brand White Knight mpany: MWA Architects gnature Date: 7/25/19 04 Model WC Address: 135 Main St., Ste. 550 05 Product Type Field-Applied Coating Tty/State/Zip: San Francisco, CA 94105 06 Roof Slope less than or equal to 2:12 10ne:415-957-2750 RESPONSIBLE PERSON'S DECLARATION STATEMENT B. SRI Calculations l certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.

2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design 01 Aged Reflectance Listed with CRRC O No 02 CRRC Listed Aged Solar Reflectance identified on this Certificate of Compliance (responsible designer). 03 Initial Solar Reflectance The energy features and performance specifications, materials, components, and manufactured devices for the building design or system 04 Calculated Aged Solar Reflectance design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of 05 Thermal Emittance 0.89 The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.

I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the C. Results 88.42421164 01 Solar Reflective Index building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

| Responsible Designer Signature: | Respo Date Signed: 7/25/19 MWA Architects 135 Main St., Ste. 550 rse:C-24100 Ep: San Francisco, CA 94105 e: 415-957-2750 CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance January 2016 CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance

> **CONTRACT NO. WW-647R** CITY AND COUNTY OF SAN FRANCISCO **PUBLIC UTILITIES COMMISSION** INFRASTRUCTURE DIVISION ENGINEERING MANAGEMENT BUREAU SOUTHEAST WATER POLLUTION CONTROL PLANT BIOSOLIDS DIGESTER FACILITIES PROJECT BIOSOLIDS DIGESTER FACILITIES PROJECT CONSULTANT TEAM Brown AND ch2m TITLE 24 ENVELOPE FORMS (CONTINUED)-600 Caldwell D. GREEN A. HARM T. STIGERS A. HARM AS SHOWN Oct 1, 2020 G. ROBLEY No. C-24100 Exp.02-28-2021 DESCRIPTION 000-G-01-8112

FOR CONSTRUCTION

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ELEVATION DATUM CITY

(Page 2 of 2)

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES

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TATE OF CALIFORNIA ENVELOPE COMPONENT APPROACH	STATE OF CALIFORNIA ENVELOPE COMPONENT APPROACH		-0	ENVELOPE COMPO					CALIFORNIA ENERGY COMMISSION
ECHIRCO-ENV-01-E (Revised 01/18) CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE NRCC-ENV-01-E	CEC-NRCC-ENV-01-E (Revised 01/16) CERTIFICATE OF COMPLIANCE	CALIFORNI	NRCC-ENV-01-E	CERTIFICATE OF COMPLIA	NCE				NRCC-ENV-01-E
Envelope Component Approach Page 1 of 5	Envelope Component Approach	1,850Ep - 41	Page 2 of 5	Project Name: Bldg 610-Southe	oroach ast Water Pollution Control Plant Bi	osplide Digastar Eacilities Project		Date Prepared 7/25/19	Page 3 of 5
Didg 510-Southeast Water Pollution Control Plant Biosolids Digester Facilities Project Onto Proposed: 7/25/19	Project Name: Bldg 610-Southeast Water Pollution Control Plant Biosolids Digester Facilities	s Project Date Prepared: 7/25/19		bing oto-southe	ast water roughon control right pr	osonos organter nacinties moject		7/25/15	
GENERAL INFORMATION	Mass Furring Strip Interior	Exterior Reference Required U-Factor	r	NOTES: 1. Check the box if the aged So	olar Reflectance was not available in	the Cool Roof Council's Rated Produ	uct Directory, then us	se the equation in Section 110.8(i)2: ρ	Paged = 0.2 + 6(Pinitial - 0.2) to obtain a
Project Location: 750 Phelps St. 06 Compliance Method: Component Unconditioned (file Affidavit)		n Insulation Proposed from Tables 140.3-B		calculated aged solar reflecta than Field-Applied Coating.	nce value. Where Pinitial is the Initia	al Solar Reflectance found in the dire	ectory and 8 is either 0	0.65 for Field applied coatings or 0.70	TO for all other roofing products other
2 CA City and Zip Code: San Francisco, 94124 07 Building Front Orientation: 90 deg	Wall Int Solid Conc 144 12 N/A N/A	N/A 4.3.6 J5 0.63 0.65	Comments		using the SRI-Warksheet and enter th	he resulting value in the SRI column c	above and attach a co	copy of the SRI-Worksheet (NRCC-ENV	/-03-E) to this compliance document.
Climate Zone: 3 08 Phase of Construction: Additions	Wall III Solid Colic 244 12 N/A N/A	N/A 4.3.0 13 0.03 0.03		F. AIR BARRIER					
☐ Alteration ☐ Nonresidential	Wall Ext Solid Conc 144 12 N/A N/A	N/A 4.3.6 J5 0.63 0.65		01	02	03	04		05
Total Conditioned Floor Area: 2,486 sf 09 Building Occupancy: High Rise Residential Hotel/Motel Guest Room	Walli Ext Solid Conc 144 24 N/A N/A	N/A 4.3.6 J5 0.63 0.65		No. 2004.00 d	Air Barrier	Air Barrier	Whole Building		diverses activities:
Building Type: Schools (Public Schools) Relocatable Public School Building	Add Row Remove Last			Name	Material Type	Assembly Type	Air Leakage Testing	ıg	Comments
Skylight Area for Large Enclosed Space > 5000 ft ² (If checked, include the NRCC-ENV-04-E with submittal)					- 31				N/A
IVELOPE DETAILS - FRAMED	E. ROOFING PRODUCTS (COOL ROOF) 01 02 03 04 05 0	06 07 08 09 10	11	Add Row Remove L	ast				
02 03 04 05 06 07 08 09 10 11		posed Minimum Required		G. FENESTRATION PROPO	SED AREAS AND EFFICIENCIES				
Frame Frame Cavity Insulation Reference Proposed U-Factor from Tables Field Inspection	Mass Roof		-	01 02	03 04	05 06 07	08	09 10 11	12
Assembly Type Material Depth Spacing R-value R-value Table Cell U-Factor 140.3-B, C, or D Comments	25 lb/ft ² CRRC Product Aged Solar The or Greater Roof Pitch ID Number Product Type Reflectance ¹ Emit	ermal SRI ² Aged Solar Thermal SRI ttance (Optional) Reflectance Emittance (Optional)	Comments				Proposed		
	✓ <= 2:12 0700-0022 Field-Applied Coat □ 0.72 0.			Tag/ID Fenestration	Surface Type Area Orientati	# of Max Max on Panes U-Factor (R)SHG		Label Overhang Status	
v Remove Last		5							
PE DETAILS - NON-FRAMED	Add Row Remove Last			FF109 Glazed Do	oor 2.25 West	1 0.41 0.25	5 0.56 N	NFRC N New	
02 03 04 05 06 07 08 09 10	- An aged solar reflectance less than 0.63 is allowed provided the maximum roof/c			FF109 Storefront Tra	ansom 7.5 West	1 0.41 0.25	5 0.56 N	NFRC N New	8
Interior or Core Continuous Appendix JA4	 High-rise residential buildings and Hotels and Motels with low-sloped roofs in Cli Reflectance and thermal emittance requirements 	mate Zones 1 through 8, 12, and 16 are exempted from aged Solar		FF111A Glazed Do	oor 2.25 West	1 0.41 0.25	5 0.56 N	NFRC N New	
Assembly Thickness Insulation Insulation Reference Proposed Required U-Factor from Field Inspection Assembly Type Materials (inches) R-Value R-Value Table Cell U-Factor Tables 140.3-B, C, or D Comments	- High-rise residential and Hotels/Motels with steep-sloped roofs in Climate Zones	s 1 and 16 are exempt from aged Solar Reflectance and thermal		Glazed DC	200 0000	0.71 0.25		. New	
	emittance requirements	plantated color thermal as a linear state of the state of		FF111A Storefront Tra	ansom 7.5 West	1 0.41 0.25	5 0.56 N	NFRC N New	62
Roof Conc/Mtl Deck 12 30 4.2.6 J8 .031 .039	 The roof area covered by building integrated photovoltaic panels and building integrated thermal emittance requirements 	tegrateu solar thermal panels are exempt from aged Solar Reflectanc	ce	FF111B Glazed Do	oor 4.5 West	2 0.41 0.25	5 0.56 N	NFRC N New	,
Remove Last	- To apply Liquid Field Applied Coatings, the coating must be applied across the en			gentation of the control of the cont	900 0 7138900			A. 10 10 10 10 10 10 10 10 10 10 10 10 10	
DETAILS - MASS	recommended by the coatings manufacturer and meet minimum performance rec			FF111B Storefront Tra	ansom 15 West	1 0.41 0.25	5 0.56 N	NFRC N New	4
2 03 04 05 06 07 08 09 10 11	Aluminum-Pigmented Asphalt Roof Coating Cement-Based Roof Coating	U Otner		Add Row Remove L	ast				
				A. S.					
y Efficiency Standards - 2016 Nonresidential Compliance January 2016	CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance		January 2016	CA Building Energy Efficience	cy Standards - 2016 Nonresidential C	Compliance			January 20
clocation on building plans of Mandatory Envelope Measures Note Block: 5000-G-01-8113 ICTIONS TO APPLICANT ENVELOPE COMPLIANCE & WORKSHEETS (check box if worksheet are included)	Certify that this Certificate of Compliance documentation is accurate Documentation Author Name: Jeff McGraw Company: MWA Architects	Documentation Author Signature: Signature Date: 7/25/19							
ed instructions on the use of this and all Energy Efficiency Standards compliance documents, please refer to the Energy Commission website.	Address 135 Main St., Ste. 550	CEA/ HERS Certification Identification (if applicable):							
NRCC-ENV-01-E Certificate of Compliance. Required on plans for all submittals. Use when minimum skylight requirements for large enclosed spaces are required in climate zones 2 through 15. Optional on plans.	Ctty/State/Zip San Francisco, CA 94105	Phone: 415-957-2750							
A second	RESPONSIBLE PERSON'S DECLARATION STATEMENT I certify the following under penalty of perjury, under the laws of the State	ite of California:							
	 The information provided on this Certificate of Compliance is true an 		on this Certificate of Compliance Irosan	osible					
	designer).			20000000					
	conform to the requirements of Title 24, Part 1 and Part 6 of the Cali	nponents, and manufactured devices for the building design or system design lifornia Code of Regulations.		25071040					
	worksheets, calculations, plans and specifications submitted to the e	n this Certificate of Compliance are consistent with the information provided enforcement agency for approval with this building permit application.		(636.7099)					
	 I will ensure that a completed signed copy of this Certificate of Compagency for all applicable inspections. I understand that a completed 	pliance shall be made available with the building permit(s) issued for the built signed copy of this Certificate of Compliance is required to be included with	ullding, and made available to the enfo h the documentation the builder provide	cement les to the					
	building owner at occupancy		provide a serior provide						
	Responsible Designer Name Jeff McGraw Company L	(Appr							
	Address and Architects	Date Signed 7/25/19							
	Antress 135 Main St., Ste. 550 City/Stest/Zip San Francisco, CA 94105	Phone: 45 or 3 or 5							
	San Francisco, CA 94105	^{Phorw:} 415-957-2750							
								CONTRACT N	O. WW-647R
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Energy Efficiency Standards - 2016 Nonresidential Compliance January 20	2016 CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance	é	Ja	nuary 2016				ENGINEERING MANA	
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			//§	TERE	T. STIGERS	A. HAI	ARM WWE O&M MANA	IAGER	SCALE DATE
	_] [No. C-24100	J. MCGRAW	G. ROBL	LEY APPROVED		AS SHOWN Oct 30, 20
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FENESTRATION WORKSHEET **FENESTRATION WORKSHEET FENESTRATION WORKSHEET** CALIFORNIA ENERGY COMMIS CERTIFICATE OF COMPLIANCE NRCC-ENV-02-E CERTIFICATE OF COMPLIANCE NRCC-ENV-02-E CERTIFICATE OF COMPLIANCE NRCC-ENV-02-E Fenestration Worksheet Fenestration Worksheet Page 1 of 3 Page 2 of 3 Fenestration Worksheet Page 3 of 3 Bldg 610-Southeast Water Pollution Control Plant Biosolids Digester Facilities Project Bldg 610-Southeast Water Pollution Control Plant Biosolids Digester Facilities Projec 7/25/19 Project Name: Bldg 610-Southeast Water Pollution Control Plant Biosolids Digester Facilities Project 7/25/19 D. SKYLIGHT AREA CALCULATION - See §140.3(a)6A A. WINDOWS DETAILS WORKSHEET - §140.3(a)6B, C and D DOCUMENTATION AUTHOR'S DECLARATION STATEMENT STANDARD ALLOWED NOTE: Newly installed fenestration shall have a certified NFRC Lobel Certificate or use the CEC default tables found in Table 110.6-A and Table 110.6-B. ACTUAL GROSS 1. I certify that this Certificate of Compliance documentation is accurate and comple Site-built fenestration less than 1,000 ft2, see Reference Nonresidential Appendix NA6. ROOF AREA SKYLIGHT AREA entation Author Name: Jeff McGraw rescriptively, skylights shall have a glazing material or diffuser that has a measured haze value greater than 90%, determined according to ASTM 01. IF Atrium/Skylight Height is≤55 ft;or ft2 · 0.05 = ture Date: 7/25/19 D1003, or other test method approved by the Energy Commi-MWA Architects 02. IF Atrium/Skylight Height is > 55 ft ft2 - 0.10 = 03 04 05 06 07 08 09 10 11 12 135 Main St., Ste. 550 03. Proposed Skylight Area(from plans) Overhang State/Zip San Francisco, CA 94105 **415-957-2750 04. SkylightSSR%^{1, 2} = Proposed Skylight Area <u>Divided</u> by Actual Gross Roof Area = 1.61 % U-Factor SHGC Calculated RESPONSIBLE PERSON'S DECLARATION STATEMEN 05. Haze material value greater than 90% according to ASTM D1003, or other approved method by certify the following under penalty of periury, under the laws of the State of California the Energy Commis • . The information provided on this Certificate of Compliance is true and correct. Window Type Surface (R)SHGC . If the SKYLIGHT SSR % is less than or equal to 5% then choose the appropriate column in Table 140.3-B and C and row in Table 140.3-D. Tag/ID (e.g. Window-1) I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified . If the SKYLIGHT SSR % is greater than 5% then the Envelope Comp nent Approach may not be used on this Certificate of Compliance (responsible designer). FF109 0.41 0.45 0.23 0.23 0.56 0.17 0 0.23 E. RELOCATABLE PUBLIC SCHOOL BUILDINGS - See §140.3(a)8 Glazed Door 0.23 The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24. Part 1 and Part 6 of the California Code of FF109 Storefront Transor 0.41 0.45 0.25 0.26 0.56 0.17 0 0.26 7.5 0.25 Specific Climate Zone Metal Identification Label - Place two labels on Regulations. For Specific Climate Zone, use Table 140.3-B - Prescriptive Envelope each relocatable school building and indicate on the building plans. The building design features or system design features identified on this Certificate of Compliance are consistent with the information FF111A Glazed Door 2.25 0.41 0.45 0.23 0.23 0.56 0.17 0 0.23 0.23 dicate location from the building plans provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the FF111A Storefront Transo 0.41 0.45 0.25 0.26 0.56 0.17 0 0.25 0.26 Any (All) Climate Zone Metal Identification Label - Place two labels or building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this For Any (All) Climate Zone, use Table 140.3-D - Prescriptive Envelope each relocatable school building and indicate on the building plans. Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy. FF111B Glazed Door 0.41 0.45 0.23 0.23 0.56 0.17 0 0.23 0.23 onsible Designer Name: Jeff McGraw Responsible Designer Signature: dicate location from the building plans: te Signed: 7/25/19 15 0.41 0.45 0.25 0.26 0.56 0.17 0 0.25 MWA Architects FF111B Storefront Transc 0.26 135 Main St., Ste. 550 °C-24100 Add Row Remove Last San Francisco, CA 94105 415-957-2750 B. WEST WINDOW AREA CALCULATION - See §140.3(a)5A 945.2 ft² 40% of Gross West Facing Exterior Wall Area; or 01. Gross West Exterior Wall Area 2,363 ft² · 0.40 = FT 6ft = 96 ft² West Display Perimeter Area 02. West Display Linear Perimeter 16 03 Enter Larger of 01 or 02 945.2 ft2 Maximum Standard West Area 04. Enter Proposed West Window Area Proposed West Window Area Note: If the PROPOSED WEST WINDOW AREA is greater than the MAXIMUM STANDARD WEST AREA then the envelope component approach may not C. WINDOW AREA CALCULATION (for all other orientations other than West) - See §140.3(a)5A 01. Gross Exterior Wall Area 3,083 ft² 0.40 = 1,233.2 ft² 40% of Gross Exterior Wall Area or 02. Linear Display Perimeter FT 6ft= 0 ft² Display Perimeter Area 0 03. Enter The Larger of 01 or 02 1,233.2 ft² Maximum Standard Area 04. Enter Proposed Window Area Proposed Window Area Note: If the PROPOSED WINDOW AREA is greater than the MAXIMUM STANDARD AREA then the envelope component approach may not be used. CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance September 2016 CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance September 2016 **CONTRACT NO. WW-647R** CITY AND COLINTY OF SAN FRANCISCO **PUBLIC UTILITIES COMMISSION** INFRASTRUCTURE DIVISION ENGINEERING MANAGEMENT BUREAU SOUTHEAST WATER POLLUTION CONTROL PLANT BIOSOLIDS DIGESTER FACILITIES PROJECT BIOSOLIDS DIGESTER FACILITIES PROJECT CONSULTANT TEAM Brown AND ch2m TITLE 24 ENVELOPE FORMS (CONTINUED)-610 Caldwell A. HARM D. GREEN T. STIGERS A. HARM AS SHOWN Oct 30, 2020 G. ROBLEY No. C-24100 FOR THE SOLE USE OF THE DOCUMENT ELEVATION Exp.02-28-2021 RECIPIENT - DO NOT CITE, COPY, OR FOR CONSTRUCTION CIRCULATE WITHOUT THE EXPRESSED

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DATUM CITY

DESCRIPTION

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PERMISSION OF THE SFPUC.

SOLAR REFLECTANCE INDEX CALCULATION WORKSHEET SOLAR REFLECTANCE INDEX CALCULATION WORKSHEET CERTIFICATE OF COMPLIANCE NRCC-ENV-03-E CERTIFICATE OF COMPLIANCE Solar Reflectance Index Calculation Worksheet (Page 2 of 2) Solar Reflectance Index Calculation Worksh (Page 1 of 2) Project Name: Bidg 610 - Southeast Water Pollution Control Plant Biosolids Digester Facilitie | Date Propered: 7/25/19 Project Name: Bldg 610 - Southeast Water Pollution Control Plant Biosolids Digester Facilities Date Prepared: 7/25/19 DOCUMENTATION AUTHOR'S DECLARATION STATEMENT A. Product Information . I certify that this Certificate of Compliance documentation is accurate and complete ocumentation Author Name: Jeff McGraw Documentation Author Name: Jeff McGraw 01 | CRRC Product ID Number 0700-0022 02 Manufacturer Garland Signature Oate: 7/25/19 Company: MWA Architects 03 Brand 04 Model White Knight Address: 135 Main St., Ste. 550 Field-Applied Coatin San Francisco, CA 94105 one:415-957-2750 06 Roof Slope less than or equal to 2:12 RESPONSIBLE PERSON'S DECLARATION STATEMENT RESPONSIBLE PERSON'S DECLARATION STATEMENT

Locritly the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compiliance is true and correct.

2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compiliance (responsible designer).

3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compiliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Occasional Code of Compiliance Conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Compiliance Conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Compiliance Conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Compiliance Conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Compiliance Conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Compiliance Conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Compiliance Conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Compiliance Conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Compiliance Conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Compiliance Conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Compiliance Conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Compiliance Conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Compiliance Code of Co B. SRI Calculations 01 Aged Reflectance Listed with CRRC 02 CRRC Listed Aged Solar Reflectance 03 Initial Solar Reflectance 04 Calculated Aged Solar Reflectance Regulations.

The building design features or system design features identified on this Certificate of Compiliance are consistent with the information provided on other applicable compiliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.

I will ensure that a completed signed copy of this Certificate of Compiliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections, I understand that a completed signed copy of this Certificate of Compiliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name** Jeff McGraw**

Responsible Designer Signature:

**Responsible Desi 0.89 05 Thermal Emittance 88.42421164 01 | Solar Reflective Index Date Signed: 7/25/19 MWA Architects 135 Main St., Ste. 550 C-24100 Zip: San Francisco, CA 94105 415-957-2750 CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance January 2016 CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance January 2016

No. C-24100 ELEVATION Exp.02-28-2021

DATUM

CITY

Brown AND Caldwell ch2m D. GREEN A. HARM T. STIGERS A. HARM J. MCGRAW G. ROBLEY DESCRIPTION

BIOSOLIDS DIGESTER FACILITIES PROJECT CONSULTANT TEAM

TITLE 24 ENVELOPE FORMS (CONTINUED)-610 AS SHOWN Oct 30, 2020

CONTRACT NO. WW-647R CITY AND COUNTY OF SAN FRANCISCO PUBLIC UTILITIES COMMISSION INFRASTRUCTURE DIVISION ENGINEERING MANAGEMENT BUREAU SOUTHEAST WATER POLLUTION CONTROL PLANT BIOSOLIDS DIGESTER FACILITIES PROJECT

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FOR CONSTRUCTION

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FOR THE SOLE USE OF THE DOCUMENT

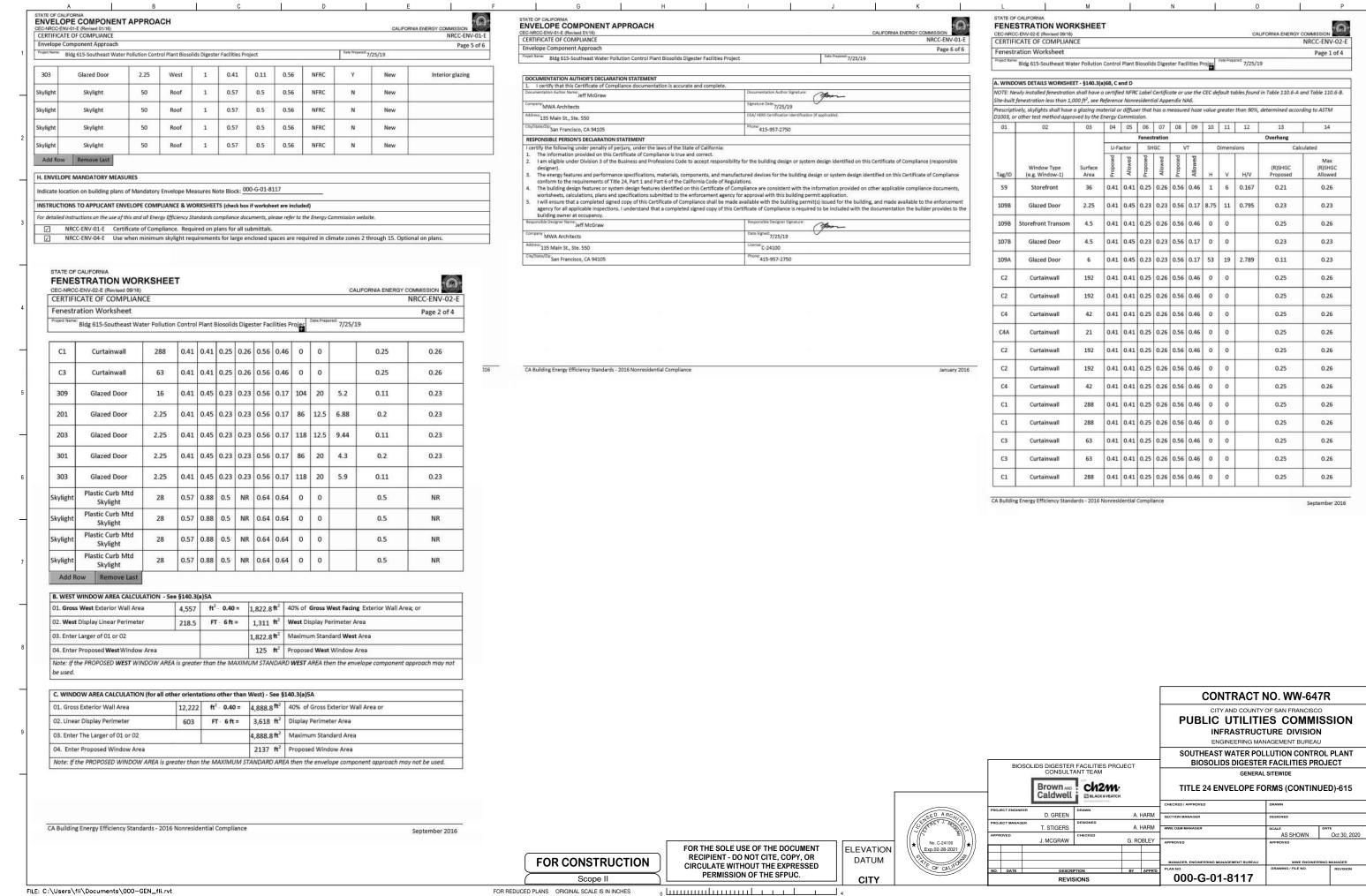
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STATE OF CALIFORNIA ENLYEL ODE COMPONENT ADDROACH	ENVELOPE COMPONENT APPROACH	
ENVELOPE COMPONENT APPROACH CEC-NECCENVO-1-E (Revised 01/16) CALIFORNIA ENERGY COMMISSION CALIFORNIA ENERGY COMMISSION MECCENTRICA DE COMMISSION	CEC-INCO-E (Revised 01/16) CERTIFICATE OF COMPLIANCE NRCC-ENV-01-E	
CERTIFICATE OF COMPLIANCE NRCC-ENV-01-E Envelope Component Approach Page 1 of 6	Envelope Component Approach Page 2 of 6	
Project Name Bldg 615-Southeast Water Pollution Control Plant Biosolids Digester Facilities Project Date Prepared 7/25/19	Project Name: Bidg 615-Southeast Water Pollution Control Plant Biosolids Digester Facilities Project Date Prepared 7/25/19	
A. GENERAL INFORMATION	Mass Furring Strip Interior Exterior Appendix JA4 Required U-Factor	
01 Project Location: 750 Pholos St 06 Compliance Method: Component	Mass Density Thickness Thickness Insulation Insulation Proposed from Tables 140.3-B, Field Inspection	
O2 CA City and Zip Code: San Francisco, 94124 O7 Building Front Orientation: 180 deg	Tag/ID Type (Ib/ft³) (inches) (inches) R-Value R-Value Table Cell U-Factor C, or D Comments	
☑ New Construction	Wall Int Solid Conc 144 8 N/A N/A N/A 4.3.6 F5 0.74 N/A	
03 Climate Zone: 3 08 Phase of Construction: ☐ Additions ☐ Alteration	Wall Ext Solid Conc 144 12 N/A N/A N/A 4.3.6 J5 0.63 0.65	
U Nonresidential O4 Total Conditioned Floor Area: 26,885 sf O9 Building Occupancy: ☐ High Rise Residential	Floor Solid Conc 144 12 N/A N/A N/A 4.4.6 A1 0.269 0.269	
☐ Hotel/Motel Guest Room		
O5 Building Type: Schools (Public Schools) Relocatable Public School Building Conditioned Spaces Unconditioned Spaces Unconditioned Spaces Skylight Area for Large Enclosed Space > 5000 ft ² (If checked, include the NRCC-ENV-04-E with submittal)	Add Row Remove Last	
B. ENVELOPE DETAILS - FRAMED	E. ROOFING PRODUCTS (COOL ROOF)	
01 02 03 04 05 06 07 08 09 10 11	01 02 03 04 05 06 07 08 09 10 11 Proposed Minimum Required	
Continuous Appendix JA4 Required	Mass Roof Mass Roof	
Frame Frame Frame Cavity Insulation Reference Proposed U-Factor from Tables Field Inspection Tag/ID Assembly Type Material Depth Spacing R-value R-value Table Cell U-Factor 140.3-B, C, or D Comments	25 lb/ft ² CRRC Product Aged Solar Thermal SRI ² Aged Solar Thermal SRI	
H2 Wall Metal 6 16 R19 2 4.3.3 B6 0.134 0.151	or Greater Roof Pitch ID Number Product Type Reflectance Emittance (Optional) Reflectance Emittance (Optional) Comments	
2997	<= 2:12 0700-0022 Field-Applied Coat 0.72 0.89 88 0.63 0.75	
Add Row Remove Last	Add Row Remove Last	
C. ENVELOPE DETAILS - NON-FRAMED	- An aged solar reflectance less than 0.63 is allowed provided the maximum roof/ceiling U-factor in TABLE 140.3 is not exceeded	
01 02 03 04 05 06 07 08 09 10	- High-rise residential buildings and Hotels and Motels with low-sloped roofs in Climate Zones 1 through 8, 12, and 16 are exempted from aged Solar	
Assembly Thickness Insulation Insulation Proposed Required U-Factor from Field Inspection	Reflectance and thermal emittance requirements - High-rise residential and Hotels/Motels with steep-sloped roofs in Climate Zones 1 and 16 are exempt from aged Solar Reflectance and thermal	
Tag/ID Assembly Type Materials (inches) R-Value R-Value Table Cell U-Factor Tables 140.3-B, C, or D Comments	emittance requirements	
Roof Roof Conc/Mtl Deck 12 30 4.2.6 J8 .031 .039	- The roof area covered by building integrated photovoltaic panels and building integrated solar thermal panels are exempt from aged Solar Reflectance and thermal emittance requirements	
Add Row Remove Last	- To apply Liquid Field Applied Coatings, the coating must be applied across the entire roof surface and meet the dry mil thickness or coverage	
D. ENVELOPE DETAILS - MASS	recommended by the coatings manufacturer and meet minimum performance requirements listed in §110.8(i)4. Select the applicable coating:	
01 02 03 04 05 06 07 08 09 10 11	Aluminum-Pigmented Asphalt Roof Coating Cement-Based Roof Coating Other	
CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance January 2016	CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance January 2016	
STATE OF CALIFORNIA ENVELOPE COMPONENT APPROACH	STATE OF CALIFORNIA	
CEC-NRCC-ENV-01-€ (Revised 01/16) CALIFORNIA ENERGY COMMISSION	ENVELOPE COMPONENT APPROACH	
CERTIFICATE OF COMPLIANCE NRCC-ENV-01-E Envelope Component Approach Page 3 of 6	CECT-NRCC-ENV-01-E (Revised 01/16) CERTIFICATE OF COMPLIANCE NRCC-ENV-01-E	
Project Name: Bldg 615-Southeast Water Pollution Control Plant Biosolids Digester Facilities Project:	Envelope Component Approach Plage 4 of 6 Plage 3 in Superior Plant Biosolids Digester Facilities Project Date Project Southeast Water Pollution Control Plant Biosolids Digester Facilities Project	
NOTES:	Milg VAD-Southeess Mater Poliuturi Cuntrul Plant proprints Digester Facilities Project 1/23/19	
1. Check the box if the aged Solar Reflectance was not available in the Coal Roof Council's Rated Product Directory, then use the equation in Section 110.8(i)2: paged = 0.2 + 8(pinitial - 0.2) to obtain a calculated aged solar reflectance value. Where Pinitial is the Initial Solar Reflectance found in the directory and 6 is either 0.65 for Field applied coatings or 0.70 for all other roofing products other	C4 Curtainwall 42 North 2 0.41 0.25 0.56 NFRC N New	
than Field-Applied Coating. 2. Calculate the SRI Value by using the SRI-Warksheet and enter the resulting value in the SRI calumn above and attach a copy of the SRI-Warksheet (NRCC-ENV-03-E) to this compliance document.	C4A Curtainwall 21 West 1 0.41 0.25 0.56 NFRC N New	
F. AIR BARRIER 01 02 03 04 05	C2 Curtainwall 192 South 8 0.41 0.25 0.56 NFRC N New	
Air Barrier Air Barrier Whole Building	C2 Curtainwall 192 South 8 0.41 0.25 0.56 NFRC N New	
Name Material Type Assembly Type Air Leakage Testing Comments	C4 Curtainwall 42 East 2 0.41 0.25 0.56 NFRC N New	
N/A	C1 Curtainwall 288 North 8 0.41 0.25 0.56 NFRC N New	
Add Row Remove Last	200 000 000 000 000 000 000 000 000 000	
G. FENESTRATION PROPOSED AREAS AND EFFICIENCIES	C1 Curtainwall 288 North 8 0.41 0.25 0.56 NFRC N New	
01 02 03 04 05 06 07 08 09 10 11 12	C3 Curtainwall 63 North 2 0.41 0.25 0.56 NFRC N New	
Proposed	C3 Curtainwall 63 West 2 0.41 0.25 0.56 NFRC N New	
Tag/ID Fenestration Type Area Orientation Panes U-Factor (R)SHGC Min VT Label Overhang Status Comments		
S9 Storefront 36 West 1 0.41 0.21 0.56 NFRC Y New	C1 Curtainwall 288 South 8 0.41 0.25 0.56 NFRC N New	
100 STATE OF THE S	C1 Curtainwall 288 South 8 0.41 0.25 0.56 NFRC N New	
109B Glazed Door 2.25 North 1 0.41 0.20 0.56 NFRC Y New	C3 Curtainwall 63 South 2 0.41 0.25 0.56 NFRC N New	
109B Storefront Transom 4.5 North 1 0.41 0.25 0.56 NFRC N New		
107B Glazed Door 4.5 West 1 0.41 0.25 0.56 NFRC N New	309 Glazed Door 16 East 2 0.41 0.11 0.56 NFRC Y New Interior glazing	
	201 Glazed Door 2.25 North 1 0.41 0.2 0.56 NFRC Y New Interior glazing	
109A Glazed Door 6 East 1 0.41 0.11 0.56 NFRC Y New Interior glazing	203 Glazed Door 2.25 West 1 0.41 0.11 0.56 NFRC Y New Interior glazing	CONTRACT NO. WW-647R
C2 Curtainwall 192 North 8 0.41 0.25 0.56 NFRC N New	Service Servic	CITY AND COUNTY OF SAN FRANCISCO
C2 Curtainwall 192 North 8 0.41 0.27 0.56 NFRC N New	301 Glazed Door 2.25 North 1 0.41 0.2 0.56 NFRC Y New Interior glazing	PUBLIC UTILITIES COMMISSION
See 1991 9 V.TA V.AF V.AF N. HEW		INFRASTRUCTURE DIVISION
CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance January 2016	CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance January 2016	ENGINEERING MANAGEMENT BUREAU
		SOUTHEAST WATER POLLUTION CONTROL PLANT
		BIOSOLIDS DIGESTER FACILITIES PROJECT GENERAL SITEWIDE BIOSOLIDS DIGESTER FACILITIES PROJECT GENERAL SITEWIDE
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		Caldwell BLACKIVEATCH 615
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		T. STIGERS
	FOR THE SOLE USE OF THE DOCUMENT LEVATION (*\big(\text{No. C.24100} \text{Exp.02-28-2021}) *\big) ELEVATION	J. MCGRAW G. ROBLEY APPROVED APPROVED
	FOR CONSTRUCTION RECIPIENT - DO NOT CITE, COPY, OR DATUM	MANAGER, ENGINEERING MANAGEMENT BUREAU WWE ENGINEERING MANAGER
	Scope II CITY CITY CITY CITY	O. DATE DESCRIPTION BY APPRO PLAN NO. OOO-G-01-8116
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FENESTRATION WORKSHEET STATE OF CALIFORNIA CALIFORNIA ENERGY COMMISSION **FENESTRATION WORKSHEET** SOLAR REFLECTANCE INDEX CALCULATION WORKSHEET CERTIFICATE OF COMPLIANCE NRCC-ENV-02-E CALIFORNIA ENERGY COMMISS CERTIFICATE OF COMPLIANCE NRCC-ENV-02-E Fenestration Worksheet CERTIFICATE OF COMPLIANCE NRCC-ENV-03-E Page 3 of 4 Date Prepared: 7/25/19 Project Name: Bldg 615-Southeast Water Pollution Control Plant Biosolids Digester Facilities Proje Fenestration Worksheet Page 4 of 4 Solar Reflectance Index Calculation Worksheet (Page 1 of 2) Bidg 615-Southeast Water Pollution Control Plant Biosolids Digester Facilities Project 7/25/19 Project Name: Bldg 615 - Southeast Water Pollution Control Plant Biosolids Digester Facilities D. SKYLIGHT AREA CALCULATION - See §140.3(a)6A DOCUMENTATION AUTHOR'S DECLARATION STATEMENT ACTUAL GROSS STANDARD ALLOWED A. Product Information 1. I certify that this Certificate of Compliance documentation is accurate and complete ROOF AREA SKYLIGHT AREA 01 CRRC Product ID Number 0700-0022 ntation Author Name: Jeff McGraw ft2 · 0.05 = 02 Manufacturer Garland 01. IF Atrium/Skylight Height is≤55 ft:or 621.5 12 430 nature Date: 7/25/19 03 Brand White Knight 02. IF Atrium/Skylight Height is > 55 ft ft² - 0.10 = 0 MWA Architects 04 Model 03. Proposed Skylight Area(from plans) 200 135 Main St., Ste. 550 05 Product Type Field-Applied Coating 04. SkylightSSR%^{1, 2} = Proposed Skylight Area <u>Divided</u> by Actual Gross Roof Area = te/Zip:San Francisco, CA 94105 415-957-2750 06 Roof Slope less than or equal to 2:12 RESPONSIBLE PERSON'S DECLARATION STATEMENT 05. Haze material value greater than 90% according to ASTM D1003, or other approved method by Yes I certify the following under penalty of perjury, under the laws of the State of California 0 B. SRI Calculations The information provided on this Certificate of Compliance is true and correct. 1. If the SKYLIGHT SSR % is less than or equal to 5% then choose the appropriate column in Table 140.3-B and C and row in Table 140.3-D. 01 Aged Reflectance Listed with CRRC 2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified 2. If the SKYLIGHT SSR % is greater than 5% then the Envelope Component Approach may not be used.

E. RELOCATABLE PUBLIC SCHOOL BUILDINGS - See §140.3(a)8 02 CRRC Listed Aged Solar Reflectance on this Certificate of Compliance (responsible designer). 03 Initial Solar Reflectance The energy features and performance specifications, materials, components, and manufactured devices for the building design or system 04 Calculated Aged Solar Reflectance design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Specific Climate Zone Metal Identification Label – Place two labels on 05 Thermal Emittance 0.89 For Specific Climate Zone, use Table 140.3-B - Prescriptive Envelope Regulations. ach relocatable school building and indicate on the building plans. 4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information ndicate location from the building plans provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement C. Results agency for approval with this building permit application. 88.42421164 01 Solar Reflective Index I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the Any (All) Climate Zone Metal Identification Label - Place two labels on building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this For Any (All) Climate Zone, use Table 140.3-D - Prescriptive Envelope each relocatable school building and indicate on the building plans. Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy. ible Designer Name Jeff McGraw dicate location from the building plans: a Signed: 7/25/19 MWA Architects 5:135 Main St., Ste. 550 C-24100 ^{P:}San Francisco, CA 94105 415-957-2750 CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance January 2016 **CONTRACT NO. WW-647R** CITY AND COLINTY OF SAN FRANCISCO **PUBLIC UTILITIES COMMISSION** INFRASTRUCTURE DIVISION ENGINEERING MANAGEMENT BUREAU SOUTHEAST WATER POLLUTION CONTROL PLANT BIOSOLIDS DIGESTER FACILITIES PROJECT BIOSOLIDS DIGESTER FACILITIES PROJECT CONSULTANT TEAM Brown AND ch2m TITLE 24 ENVELOPE FORMS (CONTINUED)-615 Caldwell A. HARM D. GREEN T. STIGERS A. HARM AS SHOWN Oct 30, 2020 G. ROBLEY No. C-24100 FOR THE SOLE USE OF THE DOCUMENT ELEVATION Exp.02-28-2021 RECIPIENT - DO NOT CITE, COPY, OR DATUM FOR CONSTRUCTION CIRCULATE WITHOUT THE EXPRESSED DESCRIPTION PERMISSION OF THE SFPUC. CITY

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STATE OF CALIFORNIA SOLAR REFLECTANCE INDEX CALCULATION WORKSHEET SOLAR REFLECTANCE INDEX CALCULATION WORKSHEET CERTIFICATE OF COMPLIANCE NRCC-ENV-03-E CERTIFICATE OF COMPLIANCE NRCC-ENV-03-E Solar Reflectance Index Calculation Worksheet (Page 2 of 2) Solar Reflectance Index Calculation Worksheet (Page 1 of 2) Project Name: Bldg 615 - Southeast Water Pollution Control Plant Biosolids Digester Facilitie Date Prepared:7/25/19 Project Name: Bldg 615 - Southeast Water Pollution Control Plant Biosolids Digester Facilities Date Prepared: 7/25/19 DOCUMENTATION AUTHOR'S DECLARATION STATEMENT A. Product Information . I certify that this Certificate of Compliance documentation is accurate and complete ocumentation Author Name: Jeff McGraw Documentation Author Name: Jeff McGraw 01 | CRRC Product ID Number 0700-0022 02 Manufacturer 03 Brand gnature Date: 7/25/19 White Knight 04 Model 05 Product Type Address: 135 Main St., Ste. 550 Field-Applied Coating City/State/Zip: San Francisco, CA 94105 ne 415-957-2750 less than or equal to 2:12 06 Roof Slope RESPONSIBLE PERSON'S DECLARATION STATEMENT | Certify the following under penalty of perjury, under the laws of the State of California:
| The information provided on this Certificate of Compliance is true and correct.
| I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
| The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Carealistics. B. SRI Calculations 01 Aged Reflectance Listed with CRRC O No 02 CRRC Listed Aged Solar Reflectance 03 Initial Solar Reflectance 04 Calculated Aged Solar Reflectance 05 Thermal Emittance Regulations.

The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement 0.89 provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.

I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the building provides to the building owner at occupancy.

Responsible Designer Name: Jeff McGraw

Responsible Designer Signature: C. Results 88.42421164 01 Solar Reflective Index e Signed: 7/25/19 MWA Architects ^{55:} 135 Main St., Ste. 550 C-24100 ^{pt} San Francisco, CA 94105 e: 415-957-2750 CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance January 2016 CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance January 2016 **CONTRACT NO. WW-647R** CITY AND COUNTY OF SAN FRANCISCO **PUBLIC UTILITIES COMMISSION** INFRASTRUCTURE DIVISION ENGINEERING MANAGEMENT BUREAU SOUTHEAST WATER POLLUTION CONTROL PLANT BIOSOLIDS DIGESTER FACILITIES PROJECT BIOSOLIDS DIGESTER FACILITIES PROJECT CONSULTANT TEAM Brown AND Caldwell ch2m TITLE 24 ENVELOPE FORMS (CONTINUED)-615 D. GREEN A. HARM T. STIGERS A. HARM AS SHOWN Oct 30, 2020 G. ROBLEY No. C-24100 FOR THE SOLE USE OF THE DOCUMENT ELEVATION Exp.02-28-2021 RECIPIENT - DO NOT CITE, COPY, OR DATUM FOR CONSTRUCTION CIRCULATE WITHOUT THE EXPRESSED DESCRIPTION PERMISSION OF THE SFPUC. CITY

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FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES

000-G-01-8119

ENVELOPE - DAYLIT ZONE WORKSHEET

CALIFORNIA ENERGY COMMISSION CEC-NRCC-ENV-04-E (Revised 04/16)

CERTIFICATE OF COMPLIANCE NRCC-FNV-04-F Envelope - Daylit Zone Worksheet Project Name: Bldg 615-Southeast Water Pollution Control Plant Biosolids Digester Facilities Project

NOTE: This worksheet applies only to buildings with three or fewer stories, climate zones 2 through 15, having an enclosed conditioned or unconditioned space $> 5,000 \text{ ft}^2$ that is directly under a roof with a ceiling height > 15 ft and $\geq 0.5 \text{ W/ft}^2$, unless exempted by the EXCEPTIONS in §140.3(c).

A. M	INIMUM SKYLIGHT AREA FOR LARGE ENCLOSED SPACES (requirements in §140.3(c))
	Enter building plan reference page(s) for large enclosed space 615-A-05-0005, 615-A-05-1004; and
02	Enter building plan reference page(s) for daylit zone plans for enclosed space 615-A-05-0005 or attach a separate daylit zone design plan with this form; then Go to Step 1 below .

01	02	03	04	05	06	0	7
Tag/ID	Sludicht Tune	Number of Skylights	U-factor	succ	VTavg	Haze Mate > 9 Yes	
Tag/ID	Skylight Type	Skylights	U-ractor	SHGC	viavg	163	140
Skylight	Plastic curb mounte	4	0.57	0.50	0.64	☑	
							П

	minimum Skylit Zone requirements can be met by using either Skylit Daylit 2				
Ste	p 1 Calculate the minimum prescriptively required Total Daylit Zone	Area,	, per§140.	3(c)	1
01	Floor area of enclosed space	A	10,710	ft ²	Floor area
02	Minimum Prescriptively Required Total Daylit Area is (0.75 x floor area (A) — the area of any permanent obstructions), see §140.3(c)1 &§130.1(d)1A for additional details.	В	8,033	ft ²	Minimum prescriptively required Tota Daylit Zone Area
Ste	2 Calculate Total Daylit Zone Area				
03.	Skylit Daylit Zone Area ignoring obstructions, determined in accordance with §130.1(d)1A and as shown on the building plans (0.7 x average ceiling height from edge of rough opening of skylight)	с	6,591	ft ²	Skylit Daylit Zone Area
04	Primary Sidelit Daylit Zone Area determined in accordance with §130.1(d)1B and as shown on the building plans ((window head height x (window width + window head height)) – areas beyond obstructions).	D	4,578	ft ²	Primary Sidelit Daylit Zone Area
05	Areas of Primary Sidelit Daylit Zone Area that overlap with the Skylit	E	1,567	ft ²	Overlapping Zone Area

D	COMPARE TOTAL DAYLIT ZONE AREA TO PRESCRIPTIVE MINIMUM
St	ep 1 Compare
01	Check if Total Daylit Zone Area (F) is equal to or greater than Minimum Prescriptively Required Daylit Zone Area (B). Space PASSES if F ≥ B.

F 9,602 ft² Total Daylit Zone Area

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance

06 Total Daylit Zone Area (F = C+D-E)

April 2016

STATE OF CALIFORNIA

ENVELOPE - DAYLIT ZONE WORKSHEET

NRCC-ENV-04-E CERTIFICATE OF COMPLIANCE Envelope - Daylit Zone Worksheet Page 2 of 3 Project Name: Bldg 615-Southeast Water Pollution Control Plant Biosolids Digester Facilities Project

□ E	quation 1: Total Skylight Area = (Skylight Area)/(Daylit Zone unde	r Skylig	hts) ≥ 3%		
Step	1 Calculate the Daylit Zone under Skylights	- 10-10			
01	Average Ceiling Height	A	23.75	ft	Average Ceiling Height
02	Total floor area in the space within a horizontal distance of 0.7 times the average ceiling height from the edge of the rough opening	В	6,742	ft²	Daylit Zone under Skylight
Step	2 Calculate the Total Skylight Area				/
03	Area of Skylight	C	192	ft ²	Skylight Area
04	Total Skylight Area (D = (C/B) * 100)	D	2.84781964	%	Total Skylight Area
☑ E	quation 2: Total Skylight Area = (Skylight Area) * (VŢ _{ve}) ≥ 1.5%				
Step	1 Calculate the Daylit Zone under Skylights				
05	Average Ceiling Height	E	23.75		Average Ceiling Height
06	Total floor area in the space within a horizontal distance of 0.7 times the average ceiling height from the edge of the rough opening	F	6,742		Daylit Zone under Skylight
Step	2 Calculate the Total Skylight Area				
07	Area of Skylight	G	192	ft ²	Skylight Area
08	Average Visible Transmittance (VT _{ave})	н	0.64		Visible Transmittance
09	Total Skylight Area (I = (G / F) * H * 100)	1	1.82260457	%	Total Skylight Area

- 1	н	. 1	CC	אכ	л	М	Д	к	Ŀ
- 1	•	•						•••	•

Step 1 Compare Check if Total Skylight Area is equal to or greater than 3% of the total floor area (Equation 1); or 1.5% of the total floor area (Equation 2). Space Passes if D≥3% using Equation 1; or H≥ 1.5% using Equation 2.

ENVELOPE - DAYLIT ZONE WORKSHEET

CERTIFICATE OF COMPLIANCE NRCC-ENV-04-E Envelope - Daylit Zone Worksheet Page 3 of 3 Project Name: Bldg 615-Southeast Water Pollution Control Plant Biosolids Digester Facilities Project

DOCUMENTATION AUTHOR'S DECLARATION STATEMEN	π
1. I certify that this Certificate of Compliance documer	ntation is accurate and complete.
Documentation Author Name: Jeff McGraw	Documentation Author Signature:
Company: MWA Architects	Signature Date: 7/25/19
Address: 135 Main St., Ste. 550	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: San Francisco, CA 94105	Phone: 415-957-2780

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California

- The information provided on this Certificate of Compliance is true and correct.
 I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design
- identified on this Certificate of Compliance (responsible designer). The energy features and performance specifications, materials, components, and manufactured devices for the building design or system
 design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of
- The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement
- agency for approval with this building permit application. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of pliance is required to be included with the docu mentation the builder provides to the building owner

Responsible Designer Name: Jeff McGraw	Responsible Designer Signature:
Company: MWA Architects	Date Signed: 7/25/19
Address: 135 Main St., Ste. 550	License: C-24100
City/State/Zip: San Francisco, CA 94105	Phone: 415-957-2780

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance

April 2016

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance

April 2016

Oct 30, 2020

CITY AND COUNTY OF SAN FRANCISCO **PUBLIC UTILITIES COMMISSION** INFRASTRUCTURE DIVISION

ENGINEERING MANAGEMENT BUREAU

CONTRACT NO. WW-647R

SOUTHEAST WATER POLLUTION CONTROL PLANT BIOSOLIDS DIGESTER FACILITIES PROJECT

TITLE 24 ENVELOPE FORMS (CONTINUED)-615

Brown AND Caldwell A. HARM D. GREEN T. STIGERS A. HARM AS SHOWN

G. ROBLEY DESCRIPTION 000-G-01-8120

BIOSOLIDS DIGESTER FACILITIES PROJECT CONSULTANT TEAM

ch2m

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ELEVATION DATUM CITY

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No. C-24100 Exp.02-28-2021

C-NRCC-ENV-01-E (Revised 01/16) ERTIFICATE OF COMPLIANC				CALIFORNIA ENERGY COMMISSION NRCC-ENV-01-E	ENVELOPE COMPONENT APPROACH CEC-NRCC-ENV-01-E (Revised 01/16) CERTIFICATE OF COMPLIANCE	CALIFO	ORNIA ENERGY COMMISSION NRCC-ENV-01-E	
nvelope Component Approa		Destant	Date Prepared 10	Page 1 of 4	Envelope Component Approach Front Home: Bld 507 Swith and Water Pollition Coastal Plant Bloodide Disease Facilities Product	Date Prepared 10/30/2020	Page 2 of 4	
	t Water Pollution Control Plant Biosolids Digester Facilities P	Project	10	/30/2020	Bldg 607-Southeast Water Pollution Control Plant Biosolids Digester Facilities Project	10/30/2020		
GENERAL INFORMATION	- Company of the Comp	DG Compliance	Markadi.	Component	Mass Furring Strip Interior Exterior Appendix JA4 Reference Mass Density Thickness Thickness Insulation Insulation	Required U-Fac Proposed from Tables 140.		
D1 Project Location D2 CA City and Zip Co		06 Compliance 07 Building Front		Unconditioned (file Affidavit) 90 deg	Tag/ID Type (lb/ft³) (inches) (inches) R-Value R-Value Table Cell		Comments	
			-	New Construction	Wall/Ext Solid Concre 144 10 N/A N/A N/A 4.3.6 J5	0.68 0.65		
Climate Zone:	3	• 08 Phase of Cor		Additions Alteration	Add Row Remove Last			
Total Conditioned Flo	oor Area: 396 SF	09 Building Oc		Nonresidential High Rise Residential	E. ROOFING PRODUCTS (COOL ROOF)	T T	0	
Building Type:		able Public School Building			01 02 03 04 05 06 07 08 Proposed	09 10 Minimum Required	11	
building Type.	Skylight Area for Large Enclosed Space	> 5000 ft ² (If checked, include th	NRCC-ENV-04-E	with submittal)	Mass Roof	The state of the s		
NVELOPE DETAILS - FR		07 08	09	10 11	25 lb/ft ² CRRC Product Aged Solar Thermal SRI ² Aged Solar or Greater Roof Pitch ID Number Product Type Reflectance (Optional) Reflectance		Comments	
1 02	03 04 05 06	Continuous Appendix JA4	U9	10 11 Required	<= 2:12 0700-0022 Field-Applied Coat 0.72 0.89 88 0.63	0.75		
g/ID Assembly Type	Frame Frame Cavity Material Depth Spacing R-value	Insulation Reference		Factor from Tables Field Inspection 140.3-B, C, or D Comments	Add Row Remove Last			
710 Assembly Type	Trade Spacing In-value	R-value Table Cell	O 4 BCLOI	140.3-5, c, or b		not overaded		
dd Row Remove Last					 An aged solar reflectance less than 0.63 is allowed provided the maximum roof/ceiling U-factor in TABLE 140.3 is r High-rise residential buildings and Hotels and Motels with low-sloped roofs in Climate Zones 1 through 8, 12, and 		ar .	
	_				Reflectance and thermal emittance requirements - High-rise residential and Hotels/Motels with steep-sloped roofs in Climate Zones 1 and 16 are exempt from aged S	Solar Reflectance and thermal		
NVELOPE DETAILS - NO 02	ON-FRAMED 03 04 05	06 07	08	09 10	emittance requirements			
	Interior or Core C	Continuous Appendix JA4			 The roof area covered by building integrated photovoltaic panels and building integrated solar thermal panels are and thermal emittance requirements 	exempt from aged Solar Reflect	ance	
/ID Assembly Type	Assembly Thickness Insulation I	Insulation Reference R-Value Table Cell	10 10 10 10 10 10 10 10 10 10 10 10 10 1	juired U-Factor from Field Inspection bles 140.3-B, C, or D Comments	- To apply Liquid Field Applied Coatings, the coating must be applied across the entire roof surface and meet the dr			
of Roof	Conc/Mtl Deck 5 1/2	37.5 4.2.6 J8	.031	.039	recommended by the coatings manufacturer and meet minimum performance requirements listed in §110.8(i)4. Se Aluminum-Pigmented Asphalt Roof Coating Cement-Based Roof Coating Other	sies are applicable coating.		
d Row Remove Last					NOTES:	anisation in Continu 110 0007.	02.00	
NVELOPE DETAILS - MA					 Check the box if the aged Solar Reflectance was not available in the Cool Roof Council's Rated Product Directory, then use the calculated aged solar reflectance value. Where Pinitial is the Initial Solar Reflectance found in the directory and 6 is either 0.65 for 			
	03 04 05 06	07 08	09	10 11	than Field-Applied Coating. 2. Calculate the SRI Value by using the SRI-Worksheet and enter the resulting value in the SRI column above and attach a copy of	f the SRI-Worksheet (NRCC-ENV-03-E	E) to this compliance document.	
RCC-ENV-01-E (Revised 01/16) TIFICATE OF COMPLIANC Plope Component Approa	CE	Project	Date Prepared 10	CALIFORNIA ENERGY COMMISSION NRCC-ENV-01-E Page 3 of 4	CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance		January 2016	
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/ELOPE COMPON RCC-ENV-01-E (Revised 01/16) TIFICATE OF COMPLIANC Elope Component Approx Bldg 607-Southeast R BARRIER	8) CE Baach Water Pollution Control Plant Biosolids Digester Facilities P	04 Whole Building	Date Prepared 10	CALIFORNIA ENERGY COMMISSION NRCC-ENV-01-E Page 3 of 4				
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UMENTATION AUTHOR'S DECLARATION STATEMENT												
certify that this Certificate of Compliance documentation is accurate and complete. entation Author Name* Jeff McGraw	Documentation Author Signature:	Open										
WA Architects	Signature Date 10/30/2020	0										
135 Main St., Ste. 550	CEA/ HERS Certification Identification (if applicable):											
San Francisco, CA 94105	Phone: 415-957-2750											
NSIBLE PERSON'S DECLARATION STATEMENT	413537-2750											
tify the following under penalty of perjury, under the laws of the State of California:												
The information provided on this Certificate of Compliance is true and correct. I am eligible under Division 3 of the Business and Professions Code to accept responsibility	y for the building design or system design identi-	tified on this Certificate of Compliance (respons	ensible									
designer). The energy features and performance specifications, materials, components, and manufact conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulat The building design features or system design features identified on this Certificate of Comworksheets, calculations, plans and specifications submitted to the enforcement agency for I will ensure that a completed signed copy of this Certificate of Compliance shall be made a agency for all applicable inspections. I understand that a completed signed copy of this Cerbuilding owner at occupancy.	ations. mpliance are consistent with the information pro for approval with this building permit application a available with the building permit(s) issued for t	rovided on other applicable compliance docum in. the building, and made available to the enforc	ments,									
onsible Designer Name Jeff McGraw	Responsible Designer Signature:	Office										
MWA Architects	Date Signed: 10/30/2020											
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San Francisco, CA 94105	Phone 415-957-2750											
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STATE OF CALIFORNIA STATE OF CALIFORNIA STATE OF CALIFORNIA FENESTRATION WORKSHEET **FENESTRATION WORKSHEET FENESTRATION WORKSHEET** CALIFORNIA ENERGY COMMISSION CALIFORNIA ENERGY COMMISSION CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE CERTIFICATE OF COMPLIANCE CERTIFICATE OF COMPLIANCE NRCC-ENV-02-E NRCC-ENV-02-E NRCC-ENV-02-E Fenestration Worksheet Fenestration Worksheet Fenestration Worksheet Page 1 of 3 Page 3 of 3 Page 2 of 3 Bldg 607-Southeast Water Pollution Control Plant Biosolids Digester Facilities Proj 10/30/2020 Bldg 607-Southeast Water Pollution Control Plant Biosolids Digester Facilities Proj 10/30/2020 Bldg 607-Southeast Water Pollution Control Plant Biosolids Digester Facilities Proje 10/30/2020 DOCUMENTATION AUTHOR'S DECLARATION STATEMENT D. SKYLIGHT AREA CALCULATION - See §140.3(a)6A A. WINDOWS DETAILS WORKSHEET - \$140.3(a)6B, C and D 1. I certify that this Certificate of Compliance documentation is accurate and complete. STANDARD ALLOWED NOTE: Newly installed fenestration shall have a certified NFRC Label Certificate or use the CEC default tables found in Table 110.6-A and Table 110.6-B. ation Author Name Jeff McGraw Site-built fenestration less than 1,000 ft², see Reference Nonresidential Appendix NA6. ROOF AREA SKYLIGHT AREA 01. IF Atrium/Skylight Height is ≤ 55 ft; or ft2 - 0.05 = Prescriptively, skylights shall have a glazing material or diffuser that has a measured haze value greater than 90%, determined according to ASTM MWA Architects 10/30/2020 D1003, or other test method approved by the Energy Commission. 02. IF Atrium/Skylight Height is > 55 ft ft2 - 0.10 = 135 Main St., Ste. 550 04 05 06 07 08 09 10 11 12 03. Proposed Skylight Area(from plans) ity/State/Zip San Francisco, CA 94105 415-957-2750 04. SkylightSSR%^{1, 2} = Proposed Skylight Area <u>Divided</u> by Actual Gross Roof Area = RESPONSIBLE PERSON'S DECLARATION STATEMENT U-Factor SHGC Calculated certify the following under penalty of perjury, under the laws of the State of California: 05. Haze material value greater than 90% according to ASTM D1003, or other approved method by the Energy Commission The information provided on this Certificate of Compliance is true and correct. Window Type (R)SHGC I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified . If the SKYLIGHT SSR % is less than or equal to 5% then choose the appropriate column in Table 140.3-B and C and row in Table 140.3-D. Tag/ID (e.g. Window-1) Area Proposed 2. If the SKYLIGHT SSR % is greater than 5% then the Envelope Component Approach may not be used.

E. RELOCATABLE PUBLIC SCHOOL BUILDINGS - See §140.3(a)8 on this Certificate of Compliance (responsible designer). 100A Glazed Door 2.8 0.41 0.45 0.23 0.23 0.56 0.17 0.23 0.23 The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of 100A Storefront Transom 0.41 0.41 0.25 0.26 0.56 0.46 0.25 0.26 Regulations Specific Climate Zone Metal Identification Label - Place two labels on For Specific Climate Zone, use Table 140.3-B - Prescriptive Envelope The building design features or system design features identified on this Certificate of Compliance are consistent with the information each relocatable school building and indicate on the building plans. provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement riteria. 100B Glazed Door 2 0.41 0.45 0.23 0.23 0.56 0.17 0.23 0.23 dicate location from the building plans: agency for approval with this building permit application. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the Option 2 Add Row Remove Last building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Any (All) Climate Zone Metal Identification Label - Place two labels on Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy. B. WEST WINDOW AREA CALCULATION - See §140.3(a)5A For Any (All) Climate Zone, use Table 140.3-D - Prescriptive Envelope each relocatable school building and indicate on the building plans. onsible Designer Name: Jeff McGraw 216.39 ft² 0.40 = 86.56 ft² 40% of Gross West Facing Exterior Wall Area; or 01. Gross West Exterior Wall Area dicate location from the building plans: Date Signed 10/30/2020 ompany MWA Architects 02. West Display Linear Perimeter FT - 6 ft = 354 ft² West Display Perimeter Area 135 Main St., Ste. 550 C-24100 03. Enter Larger of 01 or 02 Maximum Standard West Area State/Zip San Francisco, CA 94105 415-957-2750 04. Enter Proposed West Window Area Proposed West Window Area 2 ft² Note: If the PROPOSED WEST WINDOW AREA is greater than the MAXIMUM STANDARD WEST AREA then the envelope component approach may not be used. C. WINDOW ARFA CALCULATION (for all other orientations other than West) - See \$140.3(a)54 1,303.6 ft² - 0.40 = 521.44 ft² 40% of Gross Exterior Wall Area or 01. Gross Exterior Wall Area 02. Linear Display Perimeter 1,566 ft² Display Perimeter Area 03. Enter The Larger of 01 or 02 1.566 ft2 | Maximum Standard Area 04. Enter Proposed Window Area 18.8 ft² Proposed Window Area Note: If the PROPOSED WINDOW AREA is greater than the MAXIMUM STANDARD AREA then the envelope component approach may not be used. CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance September 2016 September 2016 **CONTRACT NO. WW-647R** CITY AND COUNTY OF SAN FRANCISCO PUBLIC UTILITIES COMMISSION INFRASTRUCTURE DIVISION ENGINEERING MANAGEMENT BUREAU SOUTHEAST WATER POLLUTION CONTROL PLANT BIOSOLIDS DIGESTER FACILITIES PROJECT BIOSOLIDS DIGESTER FACILITIES PROJECT CONSULTANT TEAM Brown AND ch2m TITLE 24 ENVELOPE FORMS (CONTINUED) - 607 Caldwell A. HARM D. GREEN T. STIGERS A. HARM AS SHOWN Dec 30, 2020 I. MCGRAW G. ROBLEY No. C-24100 FOR THE SOLE USE OF THE DOCUMENT ELEVATION Exp.02-28-2021 RECIPIENT - DO NOT CITE, COPY, OR DATUM FOR CONSTRUCTION CIRCULATE WITHOUT THE EXPRESSED DESCRIPTION PERMISSION OF THE SFPUC. 000-G-01-8123 CITY

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES

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The information provided on this Certificate of Compliance is true and correct.

I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design B. SRI Calculations O No 01 Aged Reflectance Listed with CRRC 02 CRRC Listed Aged Solar Reflectance 03 Initial Solar Reflectance identified on this Certificate of Compliance (responsible designer).

The energy features and performance specifications, materials, components, and manufactured devices for the building design or system 04 Calculated Aged Solar Reflectance design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.

The building design features or system design features identified on this Certificate of Compliance are consistent with the information 05 Thermal Emittance 0.89 $provided \ on \ other \ applicable \ compliance \ documents, \ worksheets, \ calculations, \ plans \ and \ specifications \ submitted \ to \ the \ enforcement$ agency for approval with this building permit application.

I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the 01 Solar Reflective Index 88.42421164 building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Jeff McGraw

Responsible Designer Separture: Signed: 10/30/2020 MWA Architects s: 135 Main St., Ste. 550 nse:C-24100 ^{(Zip:} San Francisco, CA 94105 £ 415-957-2750 CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance January 2016 CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance January 2016 PUBLIC UTILITIES COMMISSION SOUTHEAST WATER POLLUTION CONTROL PLANT BIOSOLIDS DIGESTER FACILITIES PROJECT CONSULTANT TEAM Brown AND Caldwell ch2m D. GREEN A. HARM

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES

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ELEVATION DATUM CITY

T. STIGERS A. HARM G. ROBLEY No. C-24100 Exp.02-28-2021 DESCRIPTION

TITLE 24 ENVELOPE FORMS (CONTINUED) - 607 AS SHOWN Dec 30, 2020 000-G-01-8124

CONTRACT NO. WW-647R CITY AND COUNTY OF SAN FRANCISCO

INFRASTRUCTURE DIVISION ENGINEERING MANAGEMENT BUREAU

BIOSOLIDS DIGESTER FACILITIES PROJECT

Solar Ready Areas Page 1 of 3	(Page 2 of 3) Yes No	CERTIFICATE OF COMPLIANCE Solar Ready Areas Project Namis: Bldg 607 - Southeast Water Pollution Contro		NRCC-SI
Project Flame: Bidg 607 - Southeast Water Pollution Control Plant Biosolids Digester Facilities Project Dirac Propunds: 10/30/2020	⊃Yes ⊘ No			
O4. Smart Thermostats and Alternative Efficiency Measure		Project Name: Ridg 607 - Southeast Water Pollution Contro	L	(Page
Is the building a high-rise multifamily building with ten stories or fewer? Will all thermostats in each dwelling unit comply with Reference Joint Appendix 5 (JAS) and will they be capable of receiving and responding to Demand Response Signals prior to granting of an occupancy permit by the enforcing agency? Will one of the following alternative efficiency measures be installed? Will one of the following alternative efficiency measures be installed? Will one of the following alternative efficiency measures be installed? A dishwasher that meets or exceeds the KNERGY STAR Program requirements with either a refrigerator that meets or exceeds the ENERGY STAR Program requirements or an whole house fan driven by an electronically commutated motor; or A home automation system capable of, at a minimum, controlling the appliances and lighting of the dwelling and responding to demand response signals; or A literative plumbing giping to permit the discharge from the clothes washer and all showers and bathtubs to be used for an irrigation system in compliance with the California Plumbing Code and any applicable local ordinances; or A literative plumbing Code and any applicable local ordinances; or A literative plumbing Code and any applicable local ordinances; or A literative plumbing Code and any applicable local ordinances; or A literative plumbing Code and any applicable local ordinances; or A literative plumbing Code and any applicable local ordinances; or A literative plumbing Code and any applicable local ordinances; or A literative plumbing Code and any applicable local ordinances; or A literative plumbing Code and any applicable local ordinances; or A literative plumbing Code and any applicable local ordinances; or A literative plumbing Code and any applicable local ordinances; or A literative plumbing Code and any applicable local ordinances; or A literative plumbing Code A literative plumbing Code A literative plumbing Code A literative plumbing Code A literative pl		Diag oor Southeast Water Foliation Control	ol Plant Biosolids Digester Facilities Project	red: 10/30/2020
Will all thermostats in each dwelling unit comply with Reference Joint Appendix 5 (JAS) and will they be capable of receiving and responding to Demand Response Signals prior to granting of an occupancy permit by the enforcing agency? Will all thermostats in each dwelling unit comply with Reference Joint Appendix 5 (JAS) and will they be capable of receiving and responding to Demand Response Signals prior to granting of an occupancy permit by the enforcing agency? Will one of the following alternative efficiency measures be installed? A dishwasher that meets or exceeds the ENERGY STAR Program requirements with either a refrigerator that meets or exceeds the ENERGY STAR Program requirements or an whole house fan driven by an electronically commutated motor; or A home automation system capable of, at a minimum, controlling the appliances and lighting of the dwelling and responding to demand response signals; or Alternative plumbing program requirements or an whole house fan driven by an electronically commutated motor; or A home automation system capable of, at a minimum, controlling the appliances and lighting of the dwelling and responding to system in compliance with the California Plumbing Code and any applicable local ordinances; or A requirement system desired to complex with the California Plumbing Code and any applicable local ordinances; or		DOCUMENTATION AUTHOR'S DECLARATION STATEM		
Motel building with ten stories or fewer	Yes O No	 I certify that this Certificate of Compliance docum Documentation Author Name: Jeff McGraw 	nentation is accurate and complete. Documentation Author Signature:	24
Will one of the following alternative efficiency measures be installed? A dishwasher that meets or exceeds the ENERGY STAR Program requirements with either a refrigerator that meets or exceeds the ENERGY STAR Program requirements with either a refrigerator that meets or exceeds the ENERGY STAR Program requirements with either a refrigerator that meets or exceeds the ENERGY STAR Program requirements or a whole house fan driven by an electronically commutated motor; or Ahome automation system capable of, at a minimum, controlling the appliances and lighting of the dwelling and responding to demand responses signals; or Alternative plumbing piping to permit the discharge from the clothes washer and all showers and bathtubs to be used for an irrigation system in compliance with the California Plumbing Code and any applicable local ordinances; or A requirements or a whole house far and any applicable local ordinances; or A requirements or a whole house far and any applicable local ordinances; or A requirements or a whole house far and any applicable local ordinances; or A requirements or a whole house far and any applicable local ordinances; or A requirements or a whole house far and any applicable local ordinances; or A requirement system for compliance with the California Plumbing Code and any applicable local ordinances; or			Signature Date: 10/30/2020	Jen-
dy requirements do not apply to hotel/motel buildings and high-rise multifamily building with more than ten stories or other nonresidential buildings a than three stories. A dishwasher that meets or exceeds the ENERGY STAR Program requirements with either a refrigerator that meets or exceeds the ENERGY STAR Program requirements with either a refrigerator that meets or exceeds the ENERGY STAR Program requirements or a whole house fan driven by an electronically commutated motor; or A home automation system capable of, at an iminum, controlling the appliances and lighting of the dwelling and responding to demand response signals; or Alternative plumbing piping to permit the discharge from the clothes washer and all showers and bathtubs to be used for an irrigation system in compliance with the California Plumbing Code and any applicable local ordinances; or A relevance restriction.	⊃ Yes ⊘ Na	Company: MWA Architects	10/30/2020 CEA/ HERS Certification Identification (if app	dicables
Construction: New Construction Addition that increases roof area by more than 2,000 ft ² demand responding to demand response signals, or Alternative plumbing piping to permit the discharge from the clothes washer and all showers and bathtubs to be used for an irrigation system in compliance with the California Plumbing Code and any applicable local ordinances; or Alternative plumbing code and any applicable local ordinances; or A relevant restriction to a pull the California Plumbing Code and any applicable local ordinances; or A relevant restriction to compliance with the California Plumbing Code and any applicable local ordinances; or) ies O No	Address: 135 Main St. Ste. 550	V-78.	mata ej.
dy requirements do not apply to alterations or additions that increase the roof area by 2,000 ft ² or less. Alternative plumbing piping to permit the discharge from the clothes washer and all showers and bathtubs to be used for an irrigation system in compliance with the California Plumbing Code and any applicable local ordinances; or A rejuventer carbon designed to comploy with the California Plumbing Code and any applicable local ordinances; and that		City/State/Zip: San Francisco, CA 94105	Phone: 415-957-2750	
 A rainwater catchment system designed to comply with the California Plumbing Code and any applicable local profinances, and that 		RESPONSIBLE PERSON'S DECLARATION STATEMENT certify the following under penalty of perjury, under	the laws of the State of California	
		 The information provided on this Certificate of Co 	ompliance is true and correct.	
uses rainwater flowing from at least 65% of the available roof area. Path 01, 02, 03, 04, or 05 from below)		I am eligible under Division 3 of the Business and identified on this Certificate of Compliance (response)		ing design or system design
Please check box to right if answered yes to all questions in this section.	EXEMPT	3. The energy features and performance specification	ons, materials, components, and manufactured device	
C-SRA-02-E Minimum Solar Zone Area Worksheet is required to be submitted		Regulations.	e conform to the requirements of Title 24, Part 1 and F	art 6 of the California Code of
sis quantity (G) from NPCC-SRA-02-F Minimum Solar Zone Area Worksheet	○ Yes ○ No		atures identified on this Certificate of Compliance are of ents, worksheets, calculations, plans and specifications	
Please provide building plan reference		agency for approval with this building permit app	olication.	
ols quantity [5] from NRCC-SRA-02-E Minimum Solar Zone Area Worksheet	EXEMPT		 Certificate of Compliance shall be made available with agency for all applicable inspections. Lunderstand that 	
truction documents will indicate a location for inverters and metering equipment and a pathway for routing of conduit from the solar zone to the point of section with the electrical service. The construction documents will indicate a pathway for routing of plumbing from the solar zone to the water heating		Certificate of Compliance is required to be include	led with the documentation the builder provides to the	building owner at occupancy
		Responsible Designer Name: Je ff McGraw	Responsible Designer Signature:	Other
the construction documents or a comparable document indicating information about the solar zone and interconnection pathways will be provided to the		Company: MWA Architects	Date Signed: 10/30/2020	
designer certifies that all above requirements have been met and the Proposed Solar Zone Area meets or exceeds		Address: 135 Main St. Ste. 550	License: C-24100	
minimized and the second security sector and the second se		Oty/State/2ip: San Francisco, CA 94105	Phone: 415-957-2750	
manently Installed Solar Photovoltaic (PV) System Total Roof Area (ft²)* Minimum Nameplate DC Power Rating (watts)		No.	0.440-0.0000000000000000000000000000000	
Annual Solar Savings Fraction How was Annual Solar Savings Fraction Calculated?				
check box to right if answered yes to all questions in this section.				
ng Energy Efficiency Standards - 2016 Nonresidential Compliance July 2016 CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance	July 2016	CA Building Energy Efficiency Standards - 2016 Nonresid	lential Compliance	July
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30LAR READY ROOFS ARE LOCATED WITHIN 250' OF FACILITY			PUBLIC UT INFRAS	COUNTY OF SAN FRANCISC ILITIES COMMI TRUCTURE DIVISION
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SOLAR READY ROOFS ARE LOCATED WITHIN 250' OF FACILITY		Brown AND . C	CITY AND C PUBLIC UT INFRAS ENGINEER SOUTHEAST WAT BIOSOLIDS DIC TITLE 24 ENVELO CHECKED / APPROVED	COUNTY OF SAN FRANCISCO ILITIES COMMIS TRUCTURE DIVISION LING MANAGEMENT BUREAU ER POLLUTION CONTRO GESTER FACILITIES PRO GENERAL SITEWIDE PE FORMS (CONTINU
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FOR THE SOLE USE OF THE DOCUMENT ELE		PROJECT ENGINEER D. GREEN PROJECT MANAGER T. STIGERS CHECKED APPROVED APPROVED CHECKED	PUBLIC UT INFRAS ENGINEER SOUTHEAST WAT BIOSOLIDS DIG TITLE 24 ENVELO AL HARM SECTION MANAGER A. HARM WE DAM MANAGER	COUNTY OF SAN FRANCISCO ILITIES COMMISTRUCTURE DIVISION ING MANAGEMENT BUREAU ER POLLUTION CONTRO SESTER FACILITIES PRO SENERAL SITEWIDE PE FORMS (CONTINU DRAWN DESIGNED BRALE

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STATE OF CALIFORNIA STATE OF CALIFORNIA STATE OF CALIFORNIA MINIMUM SOLAR ZONE AREA WORKSHEET MINIMUM SOLAR ZONE AREA WORKSHEET MINIMUM SOLAR ZONE AREA WORKSHEET CALIFORNIA ENERGY COMMISSION CALIFORNIA ENERGY COMMISSION CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE CERTIFICATE OF COMPLIANCE CERTIFICATE OF COMPLIANCE NRCC-SRA-02-E NRCC-SRA-02-E NRCC-SRA-02-E Minimum Solar Zone Area Worksheet Minimum Solar Zone Area Worksheet Page 1 of 4 Page 2 of 4 Minimum Solar Zone Area Worksheet Page 3 of 4 roject Name: Bldg 607 - Southeast Water Pollution Control Plant Biosolids Digester Facilities Project Bldg 607 - Southeast Water Pollution Control Plant Biosolids Digester Facilities Project 10/30/2020 Bldg 607 - Southeast Water Pollution Control Plant Biosolids Digester Facilities Project 10/30/2020 10/30/2020 DOCUMENTATION AUTHOR'S DECLARATION STATEMENT Solar Zone Area (requirements in §110.10(b)18) Step 2: Allocated Solar Zone Subareas I certify that this Certificate of Compliance documentation is accurate and complete. This worksheet applies to hotel/motel occupancies and high-rise multifamily buildings with ten stories or fewer, and all other nonresidential buildings with three station Author Name: Jeff McGraw stories or fewer that comply with the solar zone requirement through Compliance Path A: Allocated Solar Zone in the NRCC-SRA-01-E Certificate of Compliance Solar Subarea Slope, roof or Subarea containing located the Smallest m-Building Slope of meet Subarea overhang complies the solar appropriate dimension Subarea Area sature Date: 10/30/2020 Roof or The worksheet applies to all additions that increase the roof area by more than 2,000 ft. MWA Architects oriented with Part 9 zone is free distance is greater ID Qualifies^E (ft²) Reference Overhang between 110° of Title 24^ area EA/ HERS Certificati of from than 5 feet 135 Main St., Ste. 550 A. General Information and 270° obstructions^B obstructions^C ity/State/Zip: San Francisco, CA 94105 415-957-2750 Project Address: 750 Phelps St. San Francisco, CA 94124 M N 0 Less than or equal to 10,000 ft² RESPONSIBLE PERSON'S DECLARATION STATEMENT Low 🕶 A-05-1001 NA No No 🔻 l certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct. Greater than 10,000 ft Addition that increases roof area by more than 2,000 ft² I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design Step 1: Determine Minimum Solar Zone Area Proposed Solar Zone Area (ft2) (sum of all qualifying subareas)[S] identified on this Certificate of Compliance (responsible designer). Calculate the minimum solar zone area using one of the two options provided below. Use option 2 if your roofs and overhangs are shaded. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system A. The solar zone shall comply with access, pathway, smoke ventilation, and spacing requirements as specified in Title 24, Part 9 or other Method 1: Minimum Solar Zone Area Based on Total Roof Area (requirements in 110.10(b)1B) Parts of Title 24 or in any requirements adopted by a local jurisdiction. design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations. B. No obstructions, including but not limited to, vents, chimneys, architectural features, and roof mounted equipment, shall be located in New Construction: Total roof area (ft2) 457.78 The building design features or system design features identified on this Certificate of Compliance are consistent with the information the solar zone. Additions: Total roof area added to building (ft²) provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement C. Solar zone must be located no closer than twice the distance, measured in the horizontal plane, of the height difference between the New Construction: Area of roof covered with skylights (ft agency for approval with this building permit application. 0 highest obstruction and the horizontal projection of the nearest point of the solar zone, measured in the vertical plane. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Additions: Area of new roof area covered with skylights (ft) D. If the building roof area \leq 10,000 ft² then minimum area is 80 ft². If building roof area > 10,000 ft² then minimum area is 160 ft². Minimum solar zone area $C = 0.15 \times (A - B)$ 68.667 E. Check "yes" if answers to questions in columns K through P are "yes". Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy. Note: For additions, if $A \le 2,000$ ft² then addition does not need to comply with solar zone requirement onsible Designer Name: Jeff McGraw nsible Designer Signature Method 2: Minimum Solar Zone Area Based on Potential Solar Zone (requirements in Exception 3 to 110.10(b)1B) Building complies with Minimum Solar Zone Area requirement is Proposed Solar Zone Area [S] is equal Date Signed: 10/30/2020 NOT COMPLIANT ompany: MWA Architects to or greater than the Minimum Solar Zone Area [G] The enforcement agency may require additional documentation that describes how the reduced solar zone area was determined. Method/Tool(s) used to quantify annual solar access: (for example, "Software X", 135 Main St., Ste. 550 C-24100 San Francisco, CA 94105 415-957-2750 Area of low-sloped roof (ratio of rise to run of 2:12 or less) where the annual solar Area of steep-sloped roof (ratio of rise to run is greater than 2:12) that is oriente etween 110° and 270° and annual solar access is 70% or greater.*(ft²) F = 0.5 x (D + E) For new construction consider total roof area; for addition linimum solar zone area (either C or F) (ft2) 68.667 CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2016 CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2016 April 2016 **CONTRACT NO. WW-647R** CITY AND COUNTY OF SAN FRANCISCO PUBLIC UTILITIES COMMISSION INFRASTRUCTURE DIVISION ENGINEERING MANAGEMENT BUREAU SOUTHEAST WATER POLLUTION CONTROL PLANT BIOSOLIDS DIGESTER FACILITIES PROJECT BIOSOLIDS DIGESTER FACILITIES PROJECT CONSULTANT TEAM Brown AND ch2m TITLE 24 ENVELOPE FORMS (CONTINUED) - 607 Caldwell A. HARM D. GREEN T. STIGERS A. HARM AS SHOWN Dec 30, 2020 I. MCGRAW G. ROBLEY No. C-24100 FOR THE SOLE USE OF THE DOCUMENT ELEVATION Exp.02-28-2021 RECIPIENT - DO NOT CITE, COPY, OR DATUM FOR CONSTRUCTION CIRCULATE WITHOUT THE EXPRESSED

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PERMISSION OF THE SFPUC.

DESCRIPTION

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STATE OF CALIFORNIA ENVELOPE COMPONENT APPROACH	CALIFORNIA ENFROY COMMESCION	ENVE	LOPE COMP		PROACH							CALIFORNIA E	NEDOV COMMERCION							
CEC-NRCC-ENV-01-E (Revised 01/16) CERTIFICATE OF COMPLIANCE	CALIFORNIA ENERGY COMMISSION NRCC-ENV-01-E	CERTIF	C-ENV-01-E (Revised ICATE OF COMPL	LIANCE								GALIFORNIA	NRCC-ENV-01-	-						
Envelope Component Approach Project Name: Bildg 921-Southeast Water Pollution Control Plant Biosolids Digester Facilities Project	Page 1 of 5 Oate Prepared: 7/25/19		pe Component A Bldg 921-Sout		ion Control Pl	ant Biosolids Dige	ster Facilities Proj	ect			Date Prepared: 7/25/1	9	Page 2 of 5							
A. GENERAL INFORMATION	1		T					Sc. 16	Appendix J	JA4	10	- 100 m	1	_						
	npliance Method:	1	Mass	Density	Mass Thickness	Furring Strip Thickness		Exterior nsulation	Reference	ce		ired U-Factor ables 140.3-B,	Field Inspection							
	Unconditioned (file Affidavit) g Front Orientation: 90 deg	Tag/ID		(lb/ft ³)	(inches)	(inches)						C, or D	Comments	==						
	✓ New Construction	Wall Int	t Solid Conc	144	12	N/A	N/A	N/A	4.3.6	J5	0.63	0.65								
03 Climate Zone: 3 08 Phas	se of Construction: Additions Alteration Nonresidential	Wall Ex	t Solid Conc	144	12	N/A	N/A	N/A	4.3.6	J5	0.63	0.65								
04 Total Conditioned Floor Area: 961 sf 09 Buil	Iding Occupancy: High Rise Residential Hotel/Motel Guest Room	Walli Ex	t Solid Conc	144	24	N/A	N/A	N/A	4.3.6	J5	0.63	0.65								
05 Building Type: Schools (Public Schools) Relocatable Public School Building	g 🗸 Conditioned Spaces 🔲 Unconditioned Spaces	Add	Row Remove	e Last								- 1	12	_						
Skylight Area for Large Enclosed Space > 5000 ft ² (If checked, inc	clude the NRCC-ENV-04-E with submittal)	E. ROO	FING PRODUCT	rs (COOL ROOF)									T I						
B. ENVELOPE DETAILS - FRAMED 01 02 03 04 05 06 07 08	B 09 10 11	01		03	04	05	06	07	0	08	09	10	11							
Frame Frame Country Insulation Refere	nequired Nequired	Mass Re	oof	1	Ÿ.		Propose	ed		Minin	mum Required			-						
Tag/ID Assembly Type Material Depth Spacing R-value R-value Table	Cell U-Factor 140.3-B, C, or D Comments	25 lb/f	t²	CRRC Product		Aged :					Thermal	SRI								
		or Grea	ter Roof Pitch	0700-0022			ance ¹ Emittano 0.72 0.89	ce (Option		ectance 0.63	0.75	ptional)	Comments	-						
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C. ENVELOPE DETAILS - NON-FRAMED		1	VXCVIII personalisconal	- Anna Anna Anna Anna Anna Anna Anna Ann	le allaucad a	ranidad tha man	dmum so of/collin	na II fostori	- TARLE 140	T is not ou	unned and			1						
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Assembly Thickness Insulation Insulation Appendi	Proposed Required U-Factor from Field Inspection	Reflecta	ince and thermal ise residential and	emittance requi	rements							VALUE CONTRACTOR OF THE PARTY O								
Tag/ID Assembly Type Materials (inches) R-Value R-Value Table	Cell U-Factor Tables 140.3-B, C, or D Comments	emittan	ce requirements																	
Roof Roof Conc/Mtl Deck 12 30 4.2.6	J8 .031 .039		of area covered b rmal emittance re		ated photov	oltaic panels an	d building integr	ated solar th	ermal panels	Is are exem	npt from aged So	lar Reflectance								
Add Row Remove Last			ly Liquid Field Ap nended by the co																	
D. ENVELOPE DETAILS - MASS 01 02 03 04 05 06 07 08	09 10 11		minum-Pigmented																	
01 02 03 04 05 06 07 00														-						
CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance	January 2016	CA Bu	ilding Energy Efficie	ency Standards - 20	16 Nonreside	ntial Compliance							January 20	16						
STATE OF CALIFORNIA ENVELOPE COMPONENT APPROACH																				
CEC-NRCC-ENV-01-E (Revised 01/16) CERTIFICATE OF COMPLIANCE	CALIFORNIA ENERGY COMMISSION NRCC-EN																			
Envelope Component Approach	Page	e 3 of 5																		
Project Name: Bldg 921-Southeast Water Pollution Control Plant Biosolids Digester Facilities Project	Date Prepared: 7/25/19																			
NOTES:		V.																		
 Check the box if the aged Solar Reflectance was not available in the Cool Roof Council's Rated Product Directory calculated aged solar reflectance value. Where Pinitial is the Initial Solar Reflectance found in the directory and 6 																				
than Field-Applied Coating. 2. Colculate the SRI Value by using the SRI-Worksheet and enter the resulting value in the SRI column above and at	ttach a copy of the SRI-Worksheet (NRCC-ENV-03-E) to this compliance docum	ment.																		
F. AIR BARRIER																				
01 02 03 0	4 05	-																		
Air Barrier Air Barrier Whole i Name Material Type Assembly Type Air Leakag																				
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G. FENESTRATION PROPOSED AREAS AND EFFICIENCIES	09 10 11 12																			
Proposed	09 10 11 12																			
Surface # of Max Max	Condition																			
Tag/ID Fenestration Type Area Orientation Panes U-Factor (R)SHGC Min \	VT Label Overhang Status Comments																			
100A Glazed Door 4.5 South 2 0.41 0.25 0.56	6 NFRC N New																			
100A Storefront Transom 15 South 1 0.41 0.25 0.56	6 NFRC N New																			
100B Glazed Door 2.25 West 1 0.41 0.25 0.56	6 NFRC N New																	CONTR/	ACT NO	. WW-647R
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ENVELOPE COMPONENT APPROACH ENVELOPE COMPONENT APPROACH CALIFORNIA ENERGY COMMISSION CEC-NRCC-ENV-01-E (Revised 01/16) CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE NRCC-ENV-01-E CERTIFICATE OF COMPLIANCE NRCC-ENV-01-E **Envelope Component Approach** Page 5 of 5 Envelope Component Approach Page 4 of 5 Date Prepared: 7/25/19 Project Name: Bldg 921-Southeast Water Pollution Control Plant Biosolids Digester Facilities Project Bldg 921-Southeast Water Pollution Control Plant Biosolids Digester Facilities Project 7/25/19 DOCUMENTATION AUTHOR'S DECLARATION STATEMENT H. ENVELOPE MANDATORY MEASURES 1. I certify that this Certificate of Compliance documentation is accurate and complete. Documentation Author Name: Jeff McGraw Indicate location on building plans of Mandatory Envelope Measures Note Block: $\underline{\underline{000}\text{-G-01-8}}$ 125 cumentation Author Signature: gnature Date: 7/25/19 Company: MWA Architects INSTRUCTIONS TO APPLICANT ENVELOPE COMPLIANCE & WORKSHEETS (check box if worksheet are included) Address: 135 Main St., Ste. 550 For detailed instructions on the use of this and all Energy Efficiency Standards compliance documents, please refer to the Energy Commission website. City/State/Zip: San Francisco, CA 94105 ne:415-957-2750 NRCC-ENV-01-E Certificate of Compliance. Required on plans for all submittals. 1 **V** NRCC-ENV-04-E Use when minimum skylight requirements for large enclosed spaces are required in climate zones 2 through 15. Optional on plans. RESPONSIBLE PERSON'S DECLARATION STATEMENT I certify the following under penalty of perjury, under the laws of the State of California: 1. The information provided on this Certificate of Compliance is true and correct. 2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible 3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations. 4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application. 5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy. Responsible Designer Name: Jeff McGraw Responsible Designer Signature: Date Signed: 7/25/19 Ompany: MWA Architects ss: 135 Main St., Ste. 550 C-24100 ity/State/Zip: San Francisco, CA 94105 415-957-2750 CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance January 2016 CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance January 2016 **CONTRACT NO. WW-647R** CITY AND COUNTY OF SAN FRANCISCO **PUBLIC UTILITIES COMMISSION** INFRASTRUCTURE DIVISION ENGINEERING MANAGEMENT BUREAU SOUTHEAST WATER POLLUTION CONTROL PLANT BIOSOLIDS DIGESTER FACILITIES PROJECT BIOSOLIDS DIGESTER FACILITIES PROJECT CONSULTANT TEAM Brown AND ch2m TITLE 24 ENVELOPE FORMS (CONTINUED)-921 Caldwell A. HARM D. GREEN T. STIGERS A. HARM AS SHOWN Oct 30, 2020 G. ROBLEY FOR THE SOLE USE OF THE DOCUMENT ELEVATION Exp.02-28-2021 RECIPIENT - DO NOT CITE, COPY, OR DATUM FOR CONSTRUCTION CIRCULATE WITHOUT THE EXPRESSED DESCRIPTION PERMISSION OF THE SEPLIC.

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Date Prepared: 7/25/19		Project Name: Bldg 921-Southeast Water Pollution Contro	ol Plant Biosolids Digester Facilities Projec	pared: 7/25/19		Project Name: Bldg 921-Southeast Water Pollution Co	entrol Plant Biosolids Digester F	Facilities Projec Date Prepared: 7/25/1	.9
						DOCUMENTATION AUTHOR'S DECLARATION ST	ATTAIPLIT		
WINDOWS DETAILS WORKSHEET - §140.3(a)6B, C and D		D. SKYLIGHT AREA CALCULATION - See §140.3(a)6A	ACTUAL GROSS	STANDARD ALLOWED		I certify that this Certificate of Compliance		d complete.	
OTE: Newly installed fenestration shall have a certified NFRC Label Certificate or use the CEC default tables found in Tab ie-built fenestration less than 1,000 ft², see Reference Nonresidential Appendix NA6.	ble 110.6-A and Table 110.6-B.		ROOF AREA	SKYLIGHT AREA		Documentation Author Name: Jeff McGraw		umentation Author Signature:	-
escriptively, skylights shall have a glozing material or diffuser that has a measured haze value greater than 90%, determ	mined according to ASTM	01. IF Atrium/Skylight Height is≤55 ft; or	ft² · 0.05 =	O ft²		Company: MWA Architects	Signa	eture Date: 7/25/19	***************************************
003, or other test method approved by the Energy Commission.		02. IF Atrium/Skylight Height is > 55 ft	ft² · 0.10 =	0 ft ²		Address: 135 Main St., Ste. 550		HERS Certification Identification (if applicab	Ne):
	13 14	03. Proposed Skylight Area(from plans)	ft ²			City/State/Zip: San Francisco, CA 94105	Phon	^{ne:} 415-957-2750	
	Calculated	04. SkylightSSR% ^{1, 2} = Proposed Skylight Area <u>Divided</u>	d by Actual Gross Roof Area = %			RESPONSIBLE PERSON'S DECLARATION STATEM		413 337 2730	
U-Factor SHGC VT Dimensions	1 555	05. Haze material value greater than 90% according	to ASTM D1003, or other approved method by	Yes No		I certify the following under penalty of perjury,			
Window Type Surface Surface (F	Max R)SHGC (R)SHGC	the Energy Commission		0 0		 The information provided on this Certificat I am eligible under Division 3 of the Busines 			design or system design ider
g/ID (e.g. Window-1) Area 출 국 출 국 급 국 H V H/V Pr	roposed Allowed	 If the SKYLIGHT SSR % is less than or equal to 5% then cho If the SKYLIGHT SSR % is greater than 5% then the Envelop 		row in Table 140.3-D.		on this Certificate of Compliance (responsil		,,,	
0A Glazed Door 4.5 0.41 0.45 0.23 0.23 0.56 0.17	0.23 0.23	E. RELOCATABLE PUBLIC SCHOOL BUILDINGS - See §:	140.3(a)8	1		The energy features and performance specificate of Com- design identified on this Contificate of Contificate of Contificate of Contificate of Contificate o			
04 04 04 04 07 07 07 07	0.25	Option 1	Consists Climate Zone M.	tal Identification Label – Place two lab	halean	design identified on this Certificate of Com Regulations.	pliance conform to the require	ements of Title 24, Part 1 and Part 8	or the California Code or
0A Storefront Transom 15 0.41 0.41 0.25 0.26 0.56 0.46	0.25 0.26	For Specific Climate Zone, use Table 140.3-B - Prese		fing and indicate on the building plans		4. The building design features or system des			
OB Glazed Door 2.25 0.41 0.45 0.23 0.23 0.56 0.17	0.23 0.23	Criteria.	Indicate location from the	ouilding plans:		provided on other applicable compliance d agency for approval with this building perm		ations, plans and specifications sub	mitted to the enforcement
		Option 2				5. I will ensure that a completed signed copy	of this Certificate of Complianc		
1A Glazed Door 2.25 0.41 0.45 0.23 0.23 0.56 0.17	0.23			etal Identification Label - Place two la		building, and made available to the enforce Certificate of Compliance is required to be			
dd Row Remove Last		For Any (All) Climate Zone, use Table 140.3-D - Pre- Criteria.	escriptive Envelope each relocatable school buil	ding and indicate on the building plan	S.	Responsible Designer Name: Jeff McGraw		ponsible Designer Signature:	
VEST WINDOW AREA CALCULATION - See §140.3(a)5A		KN V557730	Indicate location from the	ouilding plans:		Company: MWA Architects	Date	ie Signed: 7/25/19	_
Gross West Exterior Wall Area 2,256 ft ² 0.40 = 902.4 ft ² 40% of Gross West Facing Exter	erior Wall Area; or		h:			Address: 135 Main St., Ste. 550	11	7/23/13 ense: C-24100	
West Display Linear Perimeter 160 FT 6ft = 960 ft ² West Display Perimeter Area						City/State/Zip: San Francisco, CA 94105		c-24100 one:415-957-2750	
Enter Larger of 01 or 02 960 th 2 Maximum Standard West Area						Sali Francisco, CA 94105		713-337-2730	
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ed.	component approach may not								
INDOW AREA CALCULATION (for all other orientations other than West) - See §140.3(a)5A									
Gross Exterior Wall Area 7,310 ft ² 0.40 = 2,924 ft ² 40% of Gross Exterior Wall Area	a or								
Linear Display Perimeter 491 FT · 6 ft = 2,946 ft ² Display Perimeter Area									
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blug 321 - Southeast Water Foliation Control Flant biosonius biges	7/25/15	Bidg 921 - Southeast Water Pollution Control	Flant Biosolius Digester Facility 7/25/19				
Product Information		DOCUMENTATION AUTHOR'S DECLARATION STATEMENT					
I. CRRC Product ID Number	0700-0022	I certify that this Certificate of Compliance documentation Documentation Author Name: Jeff McGraw					
Manufacturer	Garland		- cells				
3 Brand 4 Model	White Knight WC	Company: MWA Architects	Signature Date: 7/25/19				
5 Product Type	Field-Applied Coating	Address: 135 Main St., Ste. 550	CEA/ HERS Certification Identification (if applicable):				
Roof Slope	less than or equal to 2:12	City/State/Zip: San Francisco, CA 94105	Phone: 415-957-2750				
		RESPONSIBLE PERSON'S DECLARATION STATEMENT					
SRI Calculations		I certify the following under penalty of perjury, under the law					
Aged Reflectance Listed with CRRC	Yes O No	 The information provided on this Certificate of Complian I am eligible under Division 3 of the Business and Profess 		system design			
2 CRRC Listed Aged Solar Reflectance 3 Initial Solar Reflectance	0.72	identified on this Certificate of Compliance (responsible	designer).				
4 Calculated Aged Solar Reflectance			terials, components, and manufactured devices for the buildi rm to the requirements of Title 24, Part 1 and Part 6 of the Ca				
5 Thermal Emittance	0.89	Regulations.					
			dentified on this Certificate of Compliance are consistent with orksheets, calculations, plans and specifications submitted to				
Results		agency for approval with this building permit application					
1 Solar Reflective Index	88.42421164		ate of Compliance shall be made available with the building for all applicable inspections. I understand that a completed				
		Certificate of Compliance is required to be included with	the documentation the builder provides to the building own				
		Responsible Designer Name: Jeff McGraw	Responsible Designer Signature:				
		Company: MWA Architects	Date Signed: 7/25/19				
		Address: 135 Main St., Ste. 550	Ucense: C-24100	,			
		City/State/Zip: San Francisco, CA 94105	Phone: 415-957-2750				
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				/STREET TOOKS	PROJECT MANAGER T. STIGERS DESIGNED A. HARM		SCALE DATE
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Solar Ready Areas (Page 10		(Page 2 of 3)	Solar Ready Areas	(Page 3
Project Name: Bldg 921 - Southeast Water Pollution Control Plant Biosolids Digester Facilities Project 7/25/19	Project Name: Bldg 921 - Southeast Water Pollution Control Plant Biosolids Digester Facilitie	WildForthelianner	Project Name: Bldg 921 - Southeast Water Pollution Control F	Plant Biosolids Digester Facilities Project Date Prepared: 7/25/19
Consent Information			DOCUMENTATION AUTHOR'S DECLARATION STATEMEN	
General Information ect Address: 750 Phelps St. San Francisco, CA 94124	□ 04. Smart Thermostats and Alternative Efficiency Measure Is the building a high-rise multifamily building with ten stories or fewer?	○ Yes ○ No	I certify that this Certificate of Compliance documer Documentation Author Name: Jeff McGraw	ntation is accurate and complete. Documentation Author Signature:
iding Type:	Will all thermostats in each dwelling unit comply with Reference Joint Appendix 5 (JAS) and will			(John Land Land Land Land Land Land Land Lan
Hotel/Motel building with ten stories or fewer High-rise multi-family building with ten stories or fewer	Demand Response Signals prior to granting of an occupancy permit by the enforcing agency?	O Yes O No	Company: MWA Architects	Signature Date: 7/25/19 CEA/HERS Certification (identification (if applicable):
Other nonresidential building with three stories or fewer r-ready requirements do not apply to hotel/motel buildings and high-rise multifamily building with more than ten stories or other nonresidential building	Will one of the following alternative efficiency measures be installed? • A dishwasher that meets or exceeds the ENERGY STAR Program requirements with either	or a refrigerator that meets or exceeds the	Address: 135 Main St. Ste. 550	
more than three stories.	ENERGY STAR Program requirements or a whole house fan driven by an electronically on a characteristic of the state of the	mmutated motor; or	City/State/Zip: San Francisco, CA 94105	Phone: 415-957-2750
pe of Construction: New Construction Addition that increases roof area by more than 2,000 ft ² lar-ready requirements do not apply to alterations or additions that increase the roof area by 2,000 ft ² or less. Solar-Ready hoose Path 01, 02, 03, 04, or 05 from below)	demand response signals; or Alternative plumbing piping to permit the discharge from the clothes washer and all sho system in compliance with the California Plumbing Code and any applicable local ordina A rainwater catchment system designed to comply with the California Plumbing Code an uses rainwater flowing from at least 65% of the available roof area.	wers and bathtubs to be used for an irrigation nces; or d any applicable local ordinances, and that	identified on this Certificate of Compliance (respons	pliance is true and correct. ofessions Code to accept responsibility for the building design or system design
Allocated Solar Zone	Please check box to right if answered yes to all questions in this section.	EXEMPT	design identified on this Certificate of Compliance of	conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of
NRCC-SRA-02-E Minimum Solar Zone Area Worksheet is required to be submitted mum Solar Zone Area (ft²)	05. Roof is Designed for Vehicle Traffic, Parking or for Heliport		Regulations. 4. The building design features or system design features.	res identified on this Certificate of Compliance are consistent with the information
This is quantity [G] from NRCC-SRA-02-E Minimum Solar Zone Area Worksheet	Will the roof be designed and approved to be used for vehicular traffic, parking or for a heliport. Please provide building plan reference	○ Yes ○ No	provided on other applicable compliance document agency for approval with this building permit applic	ts, worksheets, calculations, plans and specifications submitted to the enforcement
osed Solar Zone Area (ft²)	Please check box to right if answered yes to all questions in this section.		5. I will ensure that a completed signed copy of this Co	ertificate of Compliance shall be made available with the building permit(s) issued fo
This is quantity [5] from NRCC-SRA-02-E Minimum Solar Zone Area Worksheet		LI EVENIE!	Certificate of Compliance is required to be included	ency for all applicable inspections. I understand that a completed signed copy of thi with the documentation the builder provides to the building owner at occupancy.
onnection with the electrical service. The construction documents will indicate a pathway for routing of plumbing from the solar zone to the water heating.			Responsible Designer Name: Jeff McGraw	Responsible Designer Signature:
1.			Company: MWA Architects	Date Signed: 7/25/19
of the construction documents or a comparable document indicating information about the solar zone and interconnection pathways will be provided to tant.			Address: 135 Main St. Ste. 550	Ucense: C-24100
ne designer certifies that all above requirements have been met and the Proposed Solar Zone Area meets or exceeds Minimum Solar Zone Area, the building complies, otherwise it does not comply.			City/State/Zip: San Francisco, CA 94105	Phone: 415-957-2750
Permanently Installed Solar Photovoltaic (PV) System			3dii Francisco, CA 34103	413-03/-2/30
Total Roof Area (ft²)* Minimum Nameplate DC Power Rating (watts)				
the proposed building have a permanently installed solar electric system that meets or exceeds the Minimum Nameplate DC Power 92 or	10			
nal approval.	407			
see check box to right if answered yes to all questions in this section. Permanently Installed Solar Water Heating System				
the building have a permanently installed solar water heating system? s, a NRCI-STH-0I-E Certificate of Installation: Solar Water Heating System documenting the installed system must be submitted as				
ndition of final approval. the annual solar savings fraction equal to or greater than 0.2 in climate zones 1 through 9 or 0.35 in climate zones 10 through 16? O Yes O No				
Annual Solar Savings Fraction How was Annual Solar Savings Fraction Calculated?				
ase check box to right if answered yes to all questions in this section.	APT .			
silding Energy Efficiency Standards - 2016 Nonresidential Compliance July 2016	CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance	July 2016	CA Building Energy Efficiency Standards - 2016 Nonresiden	tial Compliance July 20
July 2011	ses semining sensing seminatory standards - 2020 notification compilation	3419 2020		
**SOLAR READY ROOFS ARE LOCATED WITHIN 250' OF FACILITY				CONTRACT NO. WW-647R CITY AND COUNTY OF SAN FRANCISCO
				PUBLIC UTILITIES COMMISSION INFRASTRUCTURE DIVISION ENGINEERING MANAGEMENT BUREAU
			BIOSOLIDS DIGESTER FACILITIES P CONSULTANT TEAM	SOUTHEAST WATER POLLUTION CONTROL PLA BIOSOLIDS DIGESTER FACILITIES PROJECT
			Brown NO Caldwell Blacksve	TITLE 24 ENVELOPE FORMS (CONTINUED):
			PROJECT ENGINEER D. GREEN DRAWN	CHECKED / APPROVED DRAWN A. HÄRIM SECTION MANAGER DESIGNED
			PROJECT MANAGER T. STIGERS APPROVED CHECKED	A. HARM WWE ORM MANAGER SCALE DATE AS SHOWN OCT
	FOR THE COL	ELISE OF THE DOCUMENT	No. C-24100	G. ROBLEY APPROVED APPROVED APPROVED
	RECIPIENT -	DO NOT CITE, COPY, OR DATLIM \\%	Exp.02-28-2021	
	FOR CONSTRUCTION CIRCULATE W	VITHOUT THE EXPRESSED DATOW	OF CALIFORNIA DESCRIPTION	MANAGER, ENGINEERING MANAGEMENT BUREAU WWE ENGINEERING MANA BY APPRD PLAN NO. DRAWING / FILE NO. R/
	PERMISS	SION OF THE SFPUC.		000 C 04 9434

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FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES

000-G-01-8131

STATE OF CALIFORNIA MINIMUM SOLAR ZONE AREA WORKS DEC-NRCC-SRA-02-E (Revised 04/16)	SHEET	CALIFORNIA ENERGY COMMISSION	MINIM	CALIFORNIA UM SOLAR ZO -SRA-02-E (Revised 04/		WORKSHE	EET		CALIFOR	RNIA ENERGY C	COMMISSION	MINIMUM S	DRNIA SOLAR ZONE AREA WORKSH 02-E (Revised 04/16)	HEET	CALIF	FORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE		NRCC-SRA-02		CATE OF COMPLIAN							NRCC-SRA-02	CERTIFICATE C	OF COMPLIANCE			NRCC-SRA
Minimum Solar Zone Area Worksheet	Date Date	Page 1 o	Project Name	m Solar Zone Area Bldg 921- Southea		on Control Plant F	Riosolids Digester	or Facilities Projec	ct Date Prepared: 7/	/25/19	Page 2 o		ar Zone Area Worksheet		Date Prenared:	Page
Project Name: Bldg 921- Southeast Water Pollution Control Pla	ant Biosolids Digester Facilities Project	e Prepared: 7/25/19	Constitution and Constitution	blug 521- Souther	ast water Folium	on control Flant t	biosolius Digester	raciilles Projec	1 1/	123/19		Bldg	ig 921- Southeast Water Pollution Control Plan	t Biosolids Dige	ester Facilities Project Date Prepared:	7/25/19
Solar Zone Area (requirements in §110.10(b)18)		March Control of the	Step 2: Al	llocated Solar Zone	100000000000000000000000000000000000000		DI-						TION AUTHOR'S DECLARATION STATEMENT hat this Certificate of Compliance documentation			
This worksheet applies to hotel/motel occupancies and high-rise mustories or fewer that comply with the solar zone requirement throu,				Duilding Stan	If Stee	Maria State (Plane a containing	Subarea is located the	Smallest S	Subarea		Documentation Aut	thor Name: Jeff McGraw		locumentation Author Signature:	•
Ready Areas. The worksheet applies to all additions that increase the roof area by	y more than 2,000 ft.		Subarea	Building Slop	of or overna	A11650 1000 CONTRACTOR		Later to the second	dimension	ninimiim l	Subarea Are	Company:		Si	ignature Date: 7/25/19	
	WELL WAS SET OF STATE OF THE PERSON SET OF STATE OF THE SET OF STATE OF THE SET OF STATE OF S		ID	Reference Over	hang between	110° of Title 2		from	Ithan 5 feeti	area	Qualifies ^E (ft	Address: 135 Mai			EA/ HERS Certification Identification (if applicat	ole):
A. General Information Project Address: 750 Phelps St., San Francisco, CA 94124	E				and 27	100	The same of the same	obstructions	7	uirement ^D		City/State/Zip: San	n Francisco, CA 94105	P	^{thone:} 415-957-2750	
Total Roof Area: Less than or equal to 10,000 ft ²	Phase of Construction: New Construction	ion	Н	A 0F 1001 L	J K		M	N	0	Р	Q R	DECDONICIDI E	PERSON'S DECLARATION STATEMENT		413 337 2730	
☑ Greater than 10,000 ft ²	Addition that inc	ncreases roof area by more than 2,000 ft ²	0 44 Da	A-05-1001 Lo	NA NA		No				No 0	I certify the fol	llowing under penalty of perjury, under the law			
Step 1: Determine Minimum Solar Zone Area			Add Row	Remove Last			Pronosed Sol	lar Zone Area (ft²) (sum of all qu	ualifying sub	pareas)[S] 0		mation provided on this Certificate of Compliar ble under Division 3 of the Business and Profes			design or system design
Calculate the minimum solar zone area using one of the two	o options provided below. Use option 2 if your	r roofs and overhangs are shaded.	A. The sol	ar zone shall comp	oly with access,	pathway, smok						identified	on this Certificate of Compliance (responsible gy features and performance specifications, ma		onents and manufactured devices fo	er the huilding design or system
Method 1: Minimum Solar Zone Area Based on Total Roof Area	(requirements in 110.10(b)18)			itle 24 or in any red tructions, including				tural factures	and roof mountag	d aquinmant	t shall be lesate	design ide	entified on this Certificate of Compliance confo			
New Construction: Total roof area (ft ²) Additions: Total roof area added to building (ft ²)	A	1,003	the solar	AND THE STREET, AND ASSESSED TO SERVICE AND ASSESSED.	j but not iimitei	a to, vents, chin	nneys, arcnitect	turai jeatures, t	ana rooj mounted	a equipment,	i, shall be locate	Neguiation	ns. ling design features or system design features i	identified on th	nis Certificate of Compliance are cons	sistent with the information
New Construction: Area of roof covered with skylights (ft²)				one must be locate								e provided	on other applicable compliance documents, w	vorksheets, calc		
Additions: Area of new roof area covered with skylights (ft²)		0		bstruction and the uilding roof area ≤		The state of the s							or approval with this building permit application ure that a completed signed copy of this Certifi		iance shall be made available with the	e building permit(s) issued for
Minimum solar zone area	C = 0.15 x (A - B)	150.45		'yes" if answers to				J	,			building, a	and made available to the enforcement agency	y for all applical	able inspections. I understand that a	completed signed copy of this
Note: For additions, if $A \le 2,000$ ft ² then addition does not nee			D.,(1.4)	complies with 1 st	nimum Cal 7	no Area e	omant is Pass	cod Solar 7	Aron [6] isil			Responsible Design	e of Compliance is required to be included with ner Name: Jeff McGraw		Responsible Designer Signature:	
Method 2: Minimum Solar Zone Area Based on Potential Solar 2 The enforcement agency may require additional documentation			Building	complies with Mir	ıımum Solar Zo				Area [S] is equal ar Zone Area [G]	NOT C	COMPLIANT	Company : MWA		T C	Date Signed: 7/25/19	_
Method/Tool(s) used to quantify annual solar access: (for ex-												Address: 135 Mai			7/25/19 license: C-24100	
"CAD Tool Y") Area of low-sloped roof (ratio of rise to run of 2:12 or less) w	where the annual solar												ain St., Ste. 550 an Francisco, CA 94105			
access is 70% or greater.* (ft²)												Sa	an Francisco, CA 94105		Phone: 415-957-2750	
Area of steep-sloped roof (ratio of rise to run is greater than between 110° and 270° and annual solar access is 70% or gr																
Minimum solar zone area	F = 0.5 x (D + E)	0														
* For new construction consider total roof area; for additions	(CASA-19-20-19-20-19-20-19-20-19-20-19-20-19-20-19-20-19-20-19-20-19-20-19-20-19-20-19-20-19-20-19-20-19-20-19															
Minimum solar zone area (either C or F) (ft²)	G	150.45														
L																
CA Building Energy Efficiency Standards - 2016 Nonresidenti	ial Compliance	April 2016	CA Buildir	ng Energy Efficiency S	Standards - 2016	Nonresidential C	Compliance				April 2016	_				
												CA Building Ener	rgy Efficiency Standards - 2016 Nonresidential	Compliance		April 20
																NO. WW-647R
															PUBLIC UTILITI	Y OF SAN FRANCISCO IES COMMISSION TURE DIVISION ANAGEMENT BUREAU
															SOUTHEAST WATER PO	LLUTION CONTROL PLANT
													BIOSOLIDS DIGESTER FACILITIES PF CONSULTANT TEAM	ROJECT		ER FACILITIES PROJECT AL SITEWIDE
												_	Brown AND Caldwell		TITLE 24 ENVELOPE FO	ORMS (CONTINUED)-921
												NSED ARCHIN	PROJECT ENGINEER D. GREEN DRAWN	A. HARM	SECTION MANAGER	DESIGNED
												CALLERY J. MORELLE	PROJECT MANAGER T. STIGERS APPROVED CHECKED	A. HARM	WWE O&M MANAGER	SCALE DATE AS SHOWN Oct 30, 2
							EOD T	THE SOLETION	OF THE DOCUM	MENT	ELEVATION:	(No. C-24100	J. MCGRAW CHECKED	G. ROBLEY	APPROVED	APPROVED UCI 30, 2
				EOD	CONSTR	HOTION	REC	CIPIENT - DO N	OT CITE, COPY,	OR	ELEVATION DATUM	Exp.02-28-2021		\pm	MANAGED ENGINEERING MAL	Mark Chicago
				FUR	CONSTR	OCTION			UT THE EXPRES	SED	DATOW.	OF CALIFOR	NO. DATE DESCRIPTION	BY APPR'D	MANAGER, ENGINEERING MANAGEMENT BUREAU PLAN NO.	DRAWING / FILE NO. REVISION
					Scope I) [FERMISSION (OF THE SFPUC.		CITY		REVISIONS		│ 000-G-01-8132	

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES

