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TOWNSEND MANAGEMENT, INC. - SITE COST

E0.06 ELECTRICAL TITLE 24

E5.01

**TECHNOLOGY** 

T6.01

EL0.03

LIGHTING

E1.00 ELECTRICAL SITE PLAN

E1.01 ELECTRICAL LIGHTING & POWER PLAN

TECHNOLOGY DETAILS

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EL2.10 FERRY SHELTER LIGHTING PLAN

EL7.10 MEDIA CENTER & ELEVATION PLANS

EL0.04 LIGHTING CUT SHEETS

EL0.02 FIXTURE SCHEDULE AND LIGHTING CUT SHEETS

E4.01 ELECTRICAL LIGHTING FIXTURE SCHEDULE ELECTRICAL FEEDER SCHEDULE ELECTRICAL SINGLE LINE DIAGRAM

TECHNOLOGY FLOOR PLAN - FERRY SHELTER

TECHNOLOGY SINGLE LINE DIAGRAM - PATHWAY

TECHNOLOGY DRAWING INDEX, LEGEND, NOTES, ABBREVIATIONS

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### SHEET INDEX

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S7.1 STEEL DETAILS S7.2 STEEL DETAILS  • • • •				•	•	
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S7.3 BUS SHELTER STEEL DETAILS •				•	•	
		BUS SHELTER STEEL DETAILS		•	•	
PLUMBING  PLUMBING CENERAL NOTES		DI LIMBINIO OFNIEDAL NIOTEO				
P-0 PLUMBING GENERAL NOTES • • • P-1 ROOF DRAINAGE PLAN • •						
ELECTRICAL		NOO! DIVINAGE FLAIN				
E0.01 ELECTRICAL SYMBOLS, ABBREVIATIONS, AND NOTES   • •		ELECTRICAL SYMBOLS. ABBREVIATIONS. AND NOTES		•	•	
E0.02 ELECTRICAL TITLE 24						
E0.03 ELECTRICAL TITLE 24		ELECTRICAL TITLE 24			•	
E0.04 ELECTRICAL TITLE 24 •					•	
E0.05 ELECTRICAL TITLE 24 •	E0.05	ELECTRICAL TITLE 24			•	

**PARKS** Ferry Shelter & Support Structures: Ferry & **Bus Shelters** PERMIT ISSUE

SURE ISLAND DEVE

TREASUR

SUB-PHASE

1066 HOWARD ST SAN FRANCISCO, CA 94103

LICENSE STAMP

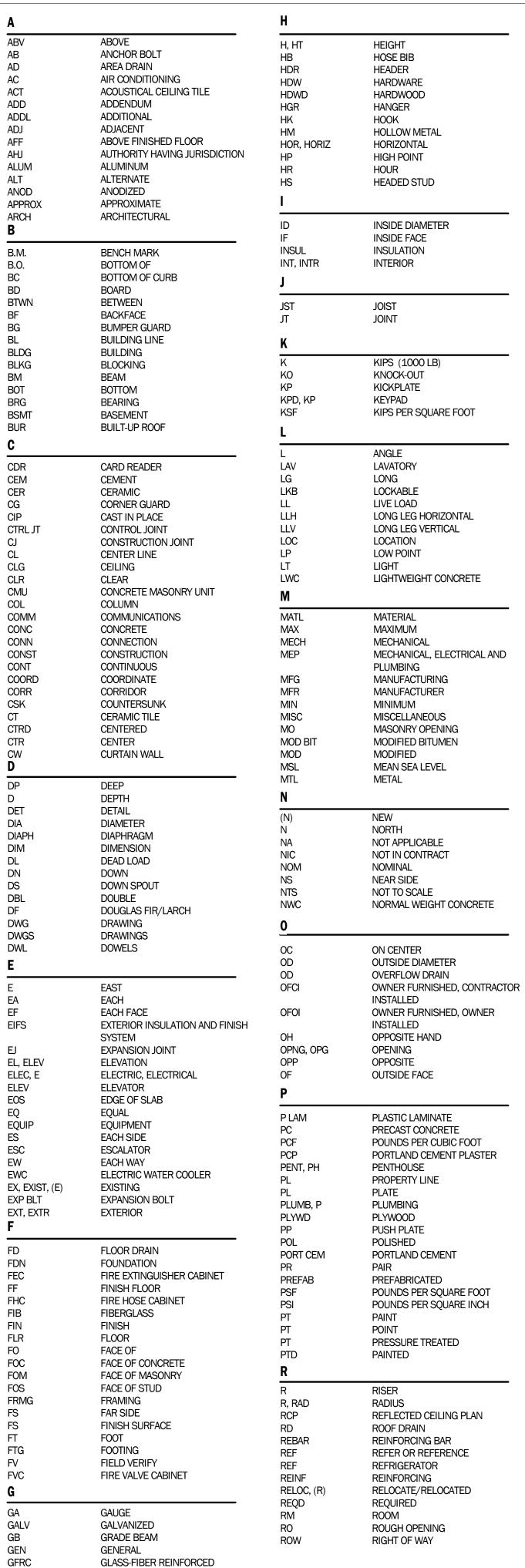
9 S **COVER SHEET** 

SHEET TITLE

SCALE

DRAWING NO.





DRAWING ABBREVIATIONS

ACT

ADD

**ADDL** 

ANOD

ARCH

B.M.

B.O.

BD

BLDG

BLKG

BOT

**BSMT** 

BUR

CDR

CEM

CER

CG

CIP

CTRL J

CLR

CMU

COL

CONC

CONT

CORR

CSK

CTRD

CTR

CW

DBL

DWG

EIFS

**ELEV** 

EOS

EQUIP

ESC

FDN

FEC

FOC

FOM

FOS

FRMG

CT

ADJ

SOUTH SELF ADHESIVE SAB SOUND ATTENUATION BLANKET SBC STANDARD BUILDING CODE SCD SEE CIVIL DRAWINGS SCHED SCHEDULE SCLD SEE CAUSEWAY LANDSCAPE DRAWINGS SDMH STORM DRAIN MANHOLE SED SEE ELECTRICAL DRAWINGS SECT SECTION SFTPD SEE FERRY TERMINAL PIER DRAWINGS \* S/H SINGLE HUNG SHWR SHOWER SIMILAR SLD SEE LANDSCAPE DRAWINGS SLTD SEE LIGHTING DRAWINGS STRUCTURAL OPENING SO SOG SLAB ON GRADE STAND PIPE SPA SPACE, SPACING SPD SEE PLUMBING DRAWINGS SPEC **SPECIFICATION** SQUARE STAINLESS STEEL SSD SEE STRUCTURAL DRWINGS SSF, SS SOLID SURFACE SSID SEE SIGNAGE DRAWINGS \* STA STATION STC SOUND TRANSMISSION CLASS STD STANDARD STED SEE TECHNOLOGY DRAWINGS STIFF **STIFFENER** STIR **STIRRUP** STEEL STL STRUC **STRUCTURAL SWPD** SEE WATERFRONT PLAZA DRAWINGS \* SYM **SYMMETRICAL** SYS SYSTEM TREAD TOP AND BOTTOM TOP OF CURB TELEPHONE **TEMP TEMPERATURE** THICK TOILET TOP OF TOB TOP OF BEAM TOC TOP OF CONCRETE TOF TOP OF FOOTING TOP TOP OF PARAPET TOS TOP OF SLAB TOSTL TOP OF STEEL TOP OF WALL TYPICAL UNDER COUNTER UNDERGROUND U/G UNLESS OTHERWISE NOTED UON VAR VINYL COMPOSITION TILE VCT VER, VFY V, VERT **VERTICAL** VEST **VESTIBULE** VINYL WALL COVERING WITHOUT WIDTH WATER CLOSET WATERPROOF(ING) WOOD WIDE FLANGE WIND LOAD WORK POINT WPO WORK POINT - POINT OF ORIGIN WP1 WORK POINT - NUMBERED WWF WELDED WIRE FABRIC AND ABBREVIATIONS NOTE: \* DENOTES DRAWINGS COORDINATED WITH THIS SET, BUT UNDER SEPARATE PROJECT COVERS. SEE GENERAL NOTES

TREASUR SUB-PHASE

LICENSE STAMP

TREASURE ISLAND COMMUNITY DEVELOPMEN

\*\* \*\* \*\*\*

DEVELOPMENT AUTHORIT

DILWORTH ELIOT STUDIO

SAN FRANCISCO, CA 94103

1066 HOWARD ST

**PARKS** Ferry Shelter & Support Structures: Ferry & **Bus Shelters** 

**PERMIT ISSUE** 

ABBREVIATIONS KEYNOTES, LEGENDS,

PROJECT INFORMATION SHEET TITLE

A0.10

SCALE

DRAWING NO.

FTG **GALV** GB GEN GFRC CONCRETE GLASS GMU GLAZED MASONRY UNIT GND GROUND GRADE GRG GLASS-REINFORCED GYPSUM GYPSUM BOARD

THE CONTRACT DOCUMENTS ARE THE INSTRUMENTS OF SERVICE AND SHALL REMAIN THE PROPERTY OF THE ARCHITECT WHETHER THE PROJECT FOR WHICH THEY ARE PREPARED IS EXECUTED OR NOT. THE CONTRACT DOCUMENTS ARE NOT TO BE USED BY THE LANDLORD OR TENANT FOR OTHER PROJECTS OR EXTENSIONS TO THE PROJECT NOR ARE THEY TO BE MODIFIED IN ANY MANNER WHATSOEVER EXCEPT BY AGREEMENT IN WRITING AND WITH APPROPRIATE COMPENSATION TO THE ARCHITECT.

ON THIS PAGE ONLY, ARCHITECT MEANS "ENGINEER".

ON THIS PAGE ONLY, TENANT OR OWNER MEANS - TREASURE ISLAND COMMUNITY DEVELOPMENT (TICD)

ON THIS PAGE ONLY, CONTRACTOR MEANS - T.B.D.

ON THIS PAGE ONLY, 'FURNISH' MEANS SUPPLY ONLY, FOR OTHERS TO PUT INTO PLACE.

ON THIS PAGE ONLY, 'PROVIDE' MEANS FURNISH AND INSTALL, COMPLETE AND IN PLACE.

ON THIS PAGE ONLY, 'TYPICAL' MEANS IDENTICAL FOR CONDITIONS NOTED.

ON THIS PAGE ONLY, 'INSTALL' MEANS SUPPLIED BY OTHERS, TO BE INSTALLED BY CONTRACTOR.

'SIMILAR' MEANS COMPARABLE MATERIAL FOR CONDITIONS NOTED. CONTRACTOR TO VERIFY DIMENSIONS AND ORIENTATION.

DO NOT SCALE DRAWINGS, DIMENSIONS GOVERN. VERIFY DIMENSIONS WITH FIELD CONDITIONS, IF DISCREPANCIES ARE DISCOVERED BETWEEN FIELD CONDITIONS AND DRAWINGS OR BETWEEN INDIVIDUAL DRAWINGS, CONTACT THE ARCHITECT FOR RESOLUTION BEFORE PROCEEDING.

12 HORIZONTAL DIMENSIONS INDICATED ARE TO/FROM FINISHED FACE OF CONSTRUCTION. EXCEPT AS NOTED.

13 VERTICAL DIMENSIONS ARE FROM TOP OF FLOOR SLAB, EXCEPT WHERE NOTED TO BE FROM ABOVE FINISHED FLOOR, (A.F.F.)

14 DIMENSIONS ARE NOT ADJUSTABLE WITHOUT APPROVAL OF ENGINEER

15 ALL WORK SHALL BE ERECTED AND INSTALLED PLUMB, LEVEL, SQUARE AND TRUE, AND IN PROPER ALIGNMENT

16 CUT AND FIT COMPONENTS FOR ALTERATION OF EXISTING WORK AND INSTALLATION OF NEW WORK.

17 PATCH DISTURBED AREAS TO MATCH ADJACENT MATERIALS AND FINISH. PATCH AND REPAIR ALL FIREPROOFING DAMAGED OR REMOVED DURING PERFORMANCE OF THE WORK. FIREPROOF NEW PENETRATIONS REQUIRED BY THE THE ENGINEER IN THE FIELD BEFORE PROCEEDING WITH CONSTRUCTIONS.

18 COORDINATE AND PROVIDE APPROPRIATE STRUCTURAL BLOCKING BACKING STRUCTURAL CLEARANCES FOR ACCESSIBILITY OF EQUIPMENT AND AND REINFORCING IN PARTITIONS BEHIND ALL WALL MOUNTED ITEMS.

19 ALL CONCEALED WOOD TO BE FIRE TREATED.

MAKE ALL NECESSARY PROVISIONS FOR ITEMS TO BE FURNISHED OR INSTALLED BY TENANT, PROVIDE PROTECTION FOR THESE PROVISIONS UNTIL COMPLETION OF THE PROJECT, CONTRACTOR TO COORDINATE, N.I.C. ITEMS WITH APPROPRIATE TRADES.

AND SHALL COMPLY WITH ALL BASE BUILDING REQUIREMENTS AND DESIGN

22 CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING CONTRACT DOCUMENTS, FIELD CONDITIONS AND DIMENSIONS FOR ACCURACY AND CONFIRMING THAT WORK IS AS SHOWN BEFORE PROCEEDING WITH CONSTRUCTION. OF WORK AS REQUIRED BY CONTRACT. DEFECTIVE WORK REVEALED WITHIN CLARIFICATIONS REGARDING ANY CONFLICTS SHALL BE ACHIEVED PRIOR TO RELATED TIME REQUIRED BY GUARANTEES SHALL BE REPLACED BY WORK WORK BEING STARTED.

23 CONTRACTOR SHALL VERIFY THAT NO CONFLICTS EXIST IN LOCATIONS OF ANY AND ALL MECHANICAL, TELEPHONE, ELECTRICAL, PLUMBING AND SPRINKLER EQUIPMENT (TO INCLUDE ALL PIPING. DUCT WORK AND CONDUIT) AND THAT ALL REQUIRED CLEARANCES FOR INSTALLATION AND MAINTENANCE OF ABOVE EQUIPMENT ARE PROVIDED. WHAT ELEMENTS ARE TO BE EXPOSED OR CONCEALED STANDARDS, FEDERAL SPECIFICATIONS, TRADE ASSOCIATION STANDARD, OR SHALL BE DETERMINED AND REVIEWED WITH ENGINEER PRIOR TO CONSTRUCTION OTHER SIMILAR STANDARD, SHALL COMPLY WITH REQUIREMENTS IN LATEST PROCEEDING

24 CONTRACTOR SHALL COORDINATE THE LAYOUT AND EXACT LOCATIONS OF DOCUMENTS. SUCH STANDARD, EXCEPT AS MODIFIED HEREIN, SHALL HAVE ALL PARTITIONS, DOORS, ELECTRICAL/TELEPHONE OUTLETS AND LIGHT SWITCHES FULL FORCE AND EFFECTS AS THOUGH PRINTED IN CONTRACT DOCUMENTS. WITH ENGINEER IN THE FIELD BEFORE PROCEEDING WITH CONSTRUCTION

25 CONTRACTOR IS RESPONSIBLE FOR AND SHALL PROVIDE PROTECTION FOR AS CONSTRUCTION CRITERIA WHEREVER DETAILS AND CONTRACT DOCUMENTS ANY EXISTING FINISHES INCLUDING ELEVATOR, LOBBIES, AND CORRIDORS OF THE OR GOVERNING CODES, ORDINANCES, ETC., REQUIRE GREATER QUANTITY OR BASE BUILDING.

26 MECHANICAL ELECTRICAL, PLUMBING & FIRE PROTECTION SYSTEMS, SHOP DRAWINGS AND LAYOUTS SHALL BE SUBMITTED TWENTY (20) DAYS AFTER AWARD 46 CONTRACTOR SHALL ORDER AND SCHEDULE DELIVERY OF MATERIALS OF CONTRACT TO THE ENGINEER ALLOWING TWENTY (20) WORKING DAYS FOR REVIEW. NO CONSTRUCTION SHALL PROCEED UNTIL THE APPROVAL OF THESE DRAWINGS. ALL THE ABOVE TRADES NEED TO BE REVIEWED BY THE ARCHITECT AT THE SAME TIME.

27 ALL GLASS AND GLAZING IN THIS PROJECT SHALL CONFORM TO REQUIREMENTS OF CHAPTER 24 OF THE 2013 CALIFORNIA BUILDING CODE AND ALL PROCESS THEREOF, CONTRACTOR'S METHODS, EQUIPMENT OR APPLIANCES FEDERAL REQUIREMENTS.

CONTRACTOR SHALL PROVIDE MANUFACTURER'S SPECIFICATIONS, INSTALLATION INSTRUCTIONS, SHOP DRAWINGS AND SAMPLES FOR REVIEW AND APPROVAL OF ALL MATERIALS AND METHODS TO BE USED PRIOR TO ORDERING OR THEIR OBLIGATIONS TO SECURE QUALITY OF WORK AND RATE OF PROGRESS PROCEEDING WITH THE WORK.

29 SUBMIT SHOP DRAWINGS AND SAMPLES FOR ALL TRADES AS SOON AS POSSIBLE TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK.

30 CONTRACTOR TO FOLLOW MANUFACTURER'S RECOMMENDED SPECIFICATIONS AND INSTALLATION PROCEDURES, IF THESE ARE CONTRARY TO THE CEILING HEIGHT ABOVE THE FINISH FLOOR AS NOTED ON THE DRAWINGS. CONTRACT DOCUMENTS. ARCHITECT, IN WRITING IMMEDIATELY, TO RESOLVE DISCREPANCIES PRIOR TO PROCEEDING.

31 EXERCISE EXTREME CARE AND PRECAUTION DURING CONSTRUCTION OF 49 ALL TELEPHONE AND DATA WORK SHALL BE COORDINATED BY THE THE WORK TO MINIMIZE DISTURBANCES TO ADJACENT STRUCTURES AND THEIR OCCUPANTS, PROPERTY, PUBLIC THOROUGHFARES,. ETC. CONTRACTOR SHALL TAKE PRECAUTIONS AND BE RESPONSIBLE FOR THE SAFETY OF ALL BUILDING OCCUPANTS 50 ENGINEER, ACTING OWNERS DESIGNATED AGENT FOR DESIGN OF THE FROM CONSTRUCTION PROCEDURES.

32 WITHIN TWENTY (20) DAYS FROM CONTRACT DATE, PREPARE AND SUBMIT REVIEW AND ACCEPTANCE OF ALL ITEMS PROPOSED BY CONTRACTOR FOR AN ESTIMATED PROGRESS SCHEDULE FOR THE WORK., WITH SUB-SCHEDULES AT RELATED ACTIVITIES WHICH MAY AFFECT THE PROGRESS.

33 ALL WORK SHALL COMPLY WITH APPLICABLE CODES, AMENDMENTS, RULES, REGULATIONS, ORDINANCES, LAWS, ORDERS, APPROVALS, ETC., THAT ARE REQUIRED BY PUBLIC AUTHORITIES.CURRENT TO DATE OF ISSUANCE OF THESE DRAWINGS. IN THE EVENT OF A CONFLICT, THE MOST STRINGENT REQUIREMENTS SHALL COMPLY. REQUIREMENTS INCLUDE, BUT ARE NOT LIMITED TO THE CURRENT APPLICABLE EDITIONS OR PUBLICATIONS NOTED.

34 IN THE EVENT OF CONFLICT BETWEEN DATA SHOWN ON DRAWINGS AN DATA SHOWN IN THE SPECIFICATIONS, THE SPECIFICATIONS SHALL GOVERN. DIMENSIONS NOTED ON DRAWINGS SHALL TAKE PRECEDENCE OVER SCALED DIMENSIONS. DETAIL DRAWINGS TAKE PRECEDENCE OVER DRAWINGS OF SMALLER SCALE. SHOULD THE CONTRACTOR AT ANY TIME DISCOVER AN ERROR IN A DRAWING, SPECIFICATION, DISCREPANCY OR VARIATION BETWEEN DIMENSIONS ON DRAWINGS AND MEASUREMENTS AT SITE HE/SHE SHALL REPORT AT ONCE TO THE ENGINEER AND SHALL NOT PROCEED WITH THE WORK AFFECTED UNTIL A CLARIFICATION HAS BEEN MADE.

35 CONTRACTOR SHALL NOT SCALE DRAWINGS AT ANY TIME. SHOULD THE CONTRACTOR AT ANY TIME DISCOVER A LACK OF DIMENSIONS OR OTHER INFORMATION, HE/SHE SHALL REPORT AT ONCE TO THE ARCHITECT FOR CLARIFICATION AND SHALL NOT PROCEED WITH THE WORK AFFECTED UNTIL A CLARIFICATION HAS BEEN MADE.

36 ONLY NEW ITEMS OF RECENT MANUFACTURE, OF STANDARD QUALITY FREE FROM DEFECTS, WILL BE PERMITTED ON THE WORK. REJECTED ITEMS SHALL BE REMOVED IMMEDIATELY FROM THE WORK AND REPLACED WITH ITEMS OF THE QUALITY SPECIFIED.

37 FAILURE TO REMOVE REJECTED MATERIALS AND EQUIPMENT SHALL NOT RELIEVE THE CONTRACTOR FROM THE RESPONSIBILITY FOR QUALITY AND CHARACTER OF ITEMS USED NOR FROM ANY OTHER OBLIGATION IMPOSED ON HIM BY THE CONTRACT.

THE FINISHED WORK SHALL BE FIRM, WELL ANCHORED, IN TRUE ALIGNMENT, PLUMB, LEVEL, WITH SMOOTH, CLEAN, UNIFORM APPEARANCE WITHOUT WAVES, DISTORTIONS. HOLES. MARKS. CRACKS, STAINS, OR DISCOLORATION. JOINTINGS SHALL BE TIGHT FITTING, NEAT AND WELL SCRIBED. THE FINISH WORK SHALL NOT HAVE EXPOSED UNSIGHTLY ANCHORS OR FASTENERS AND SHALL NOT PRESENT HAZARDOUS, UNSAFE CORNERS. ALL WORK SHALL HAVE THE PROVISION FOR EXPANSION CONTRACTION, AND SHRINKAGE AS NECESSARY TO PREVENT CRACKS, BUCKLING AND WARPING DUE TO TEMPERATURE AND HUMIDITY CONDITIONS.

39 ATTACHMENTS, CONNECTIONS. OR FASTENINGS OF ANY NATURE ARE TO BE PROPERLY AND PERMANENTLY SEALED IN CONFORMANCE WITH BEST PRACTICE. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL

40 THE DRAWINGS SHOW ONLY SPECIAL CONDITIONS TO ASSIST THE CONTRACTOR: THEY DO NOT ILLUSTRATE EVERY SITE CONDITION AND DETAIL.

FABRICATIONS AND PRODUCTS ACCORDING TO THESE CONDITIONS.

THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE DIMENSIONS AND ELEVATIONS AT THE SITE. THE CONTRACTOR SHALL COORDINATE THE LAYOUT AND EXACT LOCATION OF ALL PARTITIONING, DOORS, ELECTRICAL/TELEPHONE OUTLETS, LIGHT SWITCHES AND THERMOSTATS WITH

THE CONTRACTOR SHALL CONTINUOUSLY CHECK ARCHITECTURAL AND MECHANICAL AND ELECTRICAL SYSTEMS. CONTRACTOR SHALL VERIFY THAT NO CONFLICTS EXIST IN LOCATIONS OF ANY AND ALL MECHANICAL, TELEPHONE, ELECTRICAL, LIGHTING, PLUMBING, AND SPRINKLER EQUIPMENT (TO INCLUDE ALL PIPING, DUCT WORK AND CONDUIT) AND VERIFY ALL REQUIRED CLEARANCES FOR INSTALLATION AND MAINTENANCE OF ABOVE EQUIPMENT ARE PROVIDED. NO ALLOWANCE OF ANY KIND WILL BE MADE FOR THE CONTRACTOR'S NEGLIGENCE TO NOTE OR FORSEE MEANS OF INSTALLING EQUIPMENT INTO POSITION INSIDE STRUCTURE.

CONTRACTOR SHALL REVIEW THE BASE BUILDING CONTRACT DOCUMENTS 43 NO WORK DEFECTIVE IN CONSTRUCTION OR QUALITY OR DEFICIENT IN ANY REQUIREMENTS OF DRAWINGS AND SPECIFICATION WILL BE ACCEPTABLE IN CONSEQUENCE OF OWNER'S OR ARCHITECT'S FAILURE TO DISCOVER OR TO POINT OUT DEFECTS OR DEFICIENCIES DURING CONSTRUCTION: NOR WILL PRESENCE OF INSPECTORS ON WORK SITE RELIEVE CONTRACTOR FROM RESPONSIBILITY FOR SECURING QUALITY AND PROGRESS CONFORMING WITH INTENT OF CONTRACT. NO PAYMENT WHETHER PARTIAL OR FINAL SHALL BE CONSTRUED AS AN ACCEPTANCE OF DEFECTIVE WORK OR IMPROPER MATERIALS.

> 44 MATERIALS AND WORKMANSHIP SPECIFIED BY REFERENCE TO NUMBER, SYMBOL, TITLE OF A SPECIFICATION SUCH AS COMMERCIAL EDITION OR REVISION THEREOF AND WITH ANY AMENDMENT OR SUPPLEMENT THERE IN EFFECT ON DATE OF ORIGIN OF THIS PROJECT'S CONTRACT

45 CONTRACTOR SHALL WAIVE COMMON PRACTICE AND COMMON USAGE BETTER QUALITY THAN COMMON PRACTICE OR COMMON USAGE WOULD

IN AMPLE TIME TO AVOID DELAYS IN CONSTRUCTION. IF AN ITEM IS FOUND TO BE UNAVAILABLE, CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY TO ALLOW ARCHITECT A TWENTY (20) AMOUNT OF TIME TO SELECT A REASONABLE SUBSTITUTE.

47 IF AT ANY TIME BEFORE COMMENCEMENT OF WORK, OR DURING ARE INEFFICIENT OR INAPPROPRIATE FOR SECURING QUALITY OF WORK, OR RATE OF PROGRESS INTENDED BY CONTRACT DOCUMENTS, OWNER MAY ORDER CONTRACTOR TO IMPROVE THEIR QUALITY OR INCREASE THEIR EFFICIENCY. THIS WILL NOT RELIEVE CONTRACTOR OF HIS SURETIES FROM SPECIFIED IN CONTRACT.

48 WITH REFERENCE TO REFLECTED CEILINGS, CONTRACTOR SHALL COORDINATE AND PREPARE COMPOSITE SHOP DRAWINGS TO INSURE LOCATIONS AND CLEARANCES FOR FIXTURES, DUCTS, CEILINGS, SPRINKLER HEADS, GRILLES, ETC. NECESSARY TO MAINTAIN THE SPECIFIED FINISH CLARIFY CONFLICTS AND LOCATIONS WITH THE ARCHITECT BEFORE PROCEEDING.

CONTRACTOR WITH OWNER OR OWNER'S REPRESENTATIVE.

PROJECT, WILL EXERCISE SOLE AUTHORITY FOR DETERMINING CONFORMANCE OF MATERIAL. EQUIPMENT AND SYSTEMS WITH THE INTENT OF THE DESIGN. INCORPORATION INTO THIS WORK WILL BE BY ARCHITECT. THIS FUNCTION OF THE ARCHITECT WILL APPLY BOTH TO THE CONTRACT AS INITIALLY SIGNED. AND TO CHANGES TO THE CONTRACT BY MODIFICATION DURING PROGRESS OF WORK.

**GENERAL NOTES** 

AND QUALITY DESIRED: SUBSTITUTION OF ACCEPTABLE EQUALS WILL NOT BE

TO PROCEDURES FOR SUBSTITUTIONS, OR ACCEPTED BY THE OWNER OR

ARCHITECT BE REQUIRED TO PROVE THAT A PRODUCT PROPOSED FOR

THE AFFECTED OCCUPANCY UNLESS OTHERWISE INDICATED.

THE CONTRACTOR TO CORRECT.

OTHERWISE INDICATED.

PERMITTED UNLESS SPECIFICALLY NOTED OTHERWISE, WHEN MADE ACCORDING

ARCHITECT WITH WRITTEN APPROVAL. UNDER NO CIRCUMSTANCES WILL THE

SUBSTITUTION IS OR IS NOT OF EQUAL QUALITY TO THE PRODUCT SPECIFIED.52

WORK. ANY UNREPORTED DEFICIENCIES WILL BECOME THE RESPONSIBILITY OF

AREAS SHALL BE PERFORMED AT OTHER THAN NORMAL WORKING HOURS FOR

54 UTILITY OUTAGES SHALL BE SCHEDULED OUTSIDE NORMAL WORKING

ALL WORK IN OCCUPIED AREAS SHALL BE PERFORMED AT OTHER THAN

NORMAL WORKING HOURS UNLESS INDICATED. THE AFFECTED PREMISES SHALL

THE CONTRACTOR SHALL TAKE ALL REASONABLE CONTROL AND

PREMISES, OCCUPANCY, AND ADJACENT OCCUPANCIES IN PROXIMITY OF THE

MULLIONS, SOFFITS, RAISED FLOOR GRIDS, HOUSEKEEPING AND UTILITY

THE BEGINNING OF THE PROJECT BEFORE PROCEEDING WITH CONSTRUCTION.

BROUGHT TO THE ARCHITECT'S ATTENTION FOR CLARIFICATION OR RESOLUTION.

GENERAL PLAN OR SHEET NOTES SHALL NOT IN ANY WAY DIMINISH OR ELIMINATE

THE FULL FORCE AND EFFECT OF ALL OTHER NOTES. IN RELATION TO ONE

THE CONTRACTOR SHALL COORDINATE THE WORK TO INSURE

CLEARANCES FOR FIXTURES, DUCTS, PIPING, CEILING SUSPENSION SYSTEMS, AND

OTHER ABOVE CEILING WORK AS NECESSARY TO MAINTAIN THE FINISHED CEILING

LIGHT FIXTURES, AND DIFFUSER GRILLS SHALL BE LOCATED IN THE

CENTER OF CEILING PANELS. COORDINATE FIELD LOCATIONS WITH ARCHITECT

D. ALL AIR GRILLS SHALL BE PAINTED TO MATCH ADJACENT CEILING FINISH.

WHERE STRUCTURE IS EXPOSED, THE FOLLOWING SHALL BE DONE (TBD)

DUCT WORK, CONDUIT, PLUMBING, PROCESS PIPING, LIGHTING, AND ALL

REVIEW PROPOSED LAYOUTS WITH THE ARCHITECT AND OTHER TRADES

OTHER OVERHEAD ITEMS SHALL BE INSTALLED AT REGULAR INTERVALS, PARALLEL

TO AND/OR PERPENDICULAR WITH THE BUILDING COLUMN GRIDLINES, AND WITH

GIVEN LINE ALIGNED WITH ONE ANOTHER AND INSTALLED IN SAME SAME FASHION

ALL HANGARS, WIRES, BRACES, STRUTS, CHAINS, JUNCTION BOXES, ETC. IN ANY

IN THE FIELD PRIOR TO COMMENCING WORK. LAYOUTS WHICH HAVE NOT BEEN

OWNER IF FOUND UNSATISFACTORY. AREAS SUBJECT TO SUCH REVIEW INCLUDE,

63 SPRINKLER LINES, DUCT WORK, CONDUIT, ACCESS PANELS, CLEANOUTS,

PLUMBING, PROCESS PIPING, AND EMERGENCY LIGHTING (INCLUDING SPEAKERS,

HORNS AND STROBES) INSTALLATION SHALL AVOID LOCATION AND LAYOUT

THROUGH SPECIAL AREAS AND FINISHES; INCLUDING WALLS AND CEILINGS.

65 SEE STANDARD & SPECIAL PROVISIONS FOR GENERAL CONTRACT

64 ENGINEERING DESIGN AND CONSTRUCTION SHALL BE BY ALTERNATIVE

66. "ALIGN" AS USED IN THESE DOCUMENTS SHALL MEAN TO ACCURATELY

67. "TYPICAL" OR "TYP." AS USED IN THESE DOCUMENTS SHALL MEAN THAT

THE CONDITION IS THE SAME OR REPRESENTATIVE FOR ALL SIMILAR CONDITIONS

68. CONTRACTOR SHALL BE RESPONSIBLE FOR THE GENERAL CLEANING OF A

69. CONTRACTOR SHALL PROVIDE RECORD DOCUMENTS AND SHALL PROVIDE

MAINTAIN WORK AREAS SECURE AND LOCKABLE DURING CONSTRUCTION.

SAID DOCUMENTATION TO THE ARCHITECT FOR TRANSMISSION TO THE OWNER

70. PUBLIC RESTROOMS SHALL NOT BE USED TO CLEAN EQUIPMENT.

71. PROTECT AREA OF WORK AND ADJACENT AREAS FROM DAMAGE.

COORDINATE WITH AFFECTED TENANTS AND LANDLORD TO ENSURE SECURITY.

REQUIRED EXIT WAYS, INCLUDING STAIRS, LANDINGS, RAMPS AND

74. CONSTRUCTION SHALL COMPLY WILL THE AIR LEAKAGE REQUIREMENTS

OF THE CALIFORNIA ADMINISTRATION CODE, TITLE 24, SECTION 6, DIVISION T20,

75. CONTRACTOR FOR THE PROJECT SHALL BE RESPONSIBLE FOR OBTAINING

76. CONTRACTOR SHALL SUBMIT CONFIRMATIONS WITH DELIVERY DATES FOR

CHAPTER 2, SUBCHAPTER 4, ARTICLE 2, SECTION T20-1495 FOR WINDOWS,

DOORS, CAULKING AND SEALING, ELEVATOR SHAFT VENTS AND ALL OTHER

JOB AFTER ITS COMPLETION. CLEANING SHALL INCLUDE INTERIOR OF THE BUILDING AND PATH OF TRAVEL TO THE JOB SITE AND SHALL INCLUDE THE

PARKING LOT, ELEVATORS, LOBBIES AND CORRIDOR CARPET.

UPON COMPLETION OF THE CONSTRUCTION. NO EXCEPTIONS.

SIDEWALKS SHALL BE CLEAR OF ALL OBSTRUCTIONS.

APPLICABLE REQUIREMENTS.

ALL REQUIRED BUILDING PERMITS.

ORDERS OF LONG LEAD ITEMS.

REVIEWED WILL BE SUBJECT TO CHANGE AT NO ADDITIONAL EXPENSE TO THE

60 COORDINATION WITH ARCHITECTURAL DESIGN INTENT

AND REVIEWED WITH THE ARCHITECT PRIOR TO INSTALLATION.

BUT ARE NOT LIMITED TO THE EXPOSED STRUCTURE AREAS.

ROUTE AND NOT NECESSARILY DIRECT ROUTE METHOD.

LOCATE FINISH FACES IN THE SAME PLANE.

THROUGHOUT, UNLESS OTHERWISE NOTED.

ANOTHER OR NOT SPECIFICALLY REFERENCED.

NOT IN USE.

PRIOR TO FABRICATION AND INSTALL.

FOR A NEAT, UNIFORM APPEARANCE.

REQUIREMENTS.

HEIGHTS.

PRECAUTION TO ELIMINATE DUST, NOISE, ODOR NUISANCE AND THE LIKE TO THE

CONTRACTOR SHALL 'STRIKE OUT' LOCATION OF ALL WALLS, DOORS,

DISCREPANCIES BETWEEN GENERAL, PLAN OR SHEET NOTES SHALL BE

OCCASIONAL REFERENCE TO ONE OR MORE SPECIFIC NOTES WITHIN THE

HOURS FOR THE AFFECTED OCCUPANCY UNLESS OTHERWISE INDICATED.

BE CLEAN AND RESTORED TO NORMAL OPERATING CONDITIONS UNLESS

DEFICIENCIES IN BASE BUILDING WORK PRIOR TO THE COMMENCEMENT OF

THE CONTRACTOR SHALL NOTIFY THE OWNER IN WRITING OF ANY

REFERENCES TO MAKES, BRANDS, MODELS, ETC., IS TO ESTABLISH TYPE 77. ALL WORK NOTED "NIC" OR "NOT IN CONTRACT" IS TO BE ACCOMPLISHED BY A CONTRACTOR OTHER THAN THE GENERAL CONTRACTOR AND IS NOT TO BE A PART OF THE CONSTRUCTION AGREEMENT. THE GENERAL CONTRACTOR SHALL COORDINATE WITH "OTHER" CONTRACTORS AS REQUIRED. G.C. SHALL INCLUDE WORK BY OTHERS IN THE CONSTRUCTION SCHEDULE AND COORDINATE TO ASSURE ORDERLY SEQUENCE OF WORK.

> 78. DETAILS ARE USUALLY KEYED AND NOTED "TYPICAL" ONLY ONCE, WHEN THEY FIRST OCCUR, AND ARE REPRESENTATIVE FOR SIMILAR CONDITIONS THROUGHOUT, UNLESS OTHERWISE NOTED.

CORING, DRILLING OR OTHER SUCH WORK: IN OR ADJACENT TO OCCUPIED 79. PROVIDE EMERGENCY LIGHTING OF ONE FOOT-CANDLE AT FLOOR LEVEL. COMPLY WITH BUILDING CODES.

> 80. ALL PARTITION LOCATIONS, DIMENSIONS AND TYPES, ALL DOOR AND WINDOW LOCATIONS SHALL BE SHOWN ON PARTITION PLAN. IN CASE OF CONFLICT, NOTIFY ARCHITECT; PARTITION PLAN BY ARCHITECT SUPERSEDES OTHER PLANS

> 81. DRAWINGS COORDINATED WITH THIS SET, UNDER SEPARATE PROJECT COVERS INCLUDE:

STREETS IMPROVEMENTS PLANS, TREASURE ISLAND SUB-PHASE 1B, 1C, & 1E IMPROVEMENT PLANS (AGS CIVIL

ENGINEERS) TREASURE ISLAND FERRY TERMINAL (PIER) DRAWING PACKAGE (MOFFATT & NICHOL)

WATERFRONT PLAZA LANDSCAPE DRAWING PACKAGE (AECOM) BUILDING 1 PLAZA LANDSCAPE DRAWING PACKAGE (ANDREA

CAUSEWAY LANDSCAPE DRAWING PACKAGE (AECOM) EQUIPMENT PADS, AND OTHER MAJOR ELEMENTS AS DIRECTED BY ARCHITECT AT 6. SIGNAGE DRAWING PACKAGE (HUNT DESIGN)

COCHRAN LANDSCAPE ARCHITECTURE (ACLA)

82. REFERENCE ELEVATION IN THIS SET OF "O" REFERS TO CIVIL SITE ELEVATION OF 113.75' AS PROVIDED IN THE WATERFRONT PLAZA LANDSCAPE DRAWING PACKAGE GRADING PLAN. GRADING AND PAVING IS NIC FOR THE FERRY & BUS SHELTER DRAWING PACKAGE, BUT SHOWN FOR COORDINATION OF ITEMS IN THE FERRY & BUS SHELTER PACKAGE. SEE WATERFRONT PLAZA LANDSCAPE DRAWINGS FOR GRADING PLAN (SWPD)

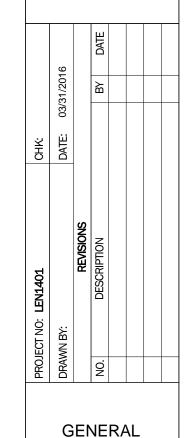


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TREASUR SUB-PHASE

**PARKS** Ferry Shelter & Support Structures: Ferry & **Bus Shelters PERMIT ISSUE** 



NOTES SHEET TITLE

#### CALGREEN CHECKLIST - TI FERRY ISLAND & BUS SHELTERS

ODE SECTION	MEASURE	YE	S N/A	NO PLAN SHEET, SPEC, OR ATTACHMENT REFERENCE
		600		
.1 PLANNING AND DESIGN				
5.101 General				
5.101.1	Scope			
5.101.2	Definitions			
5.106 Site Development				
5.106.1	Storm water pollution prevention			See Waterfront Plaza Drawing package
5.106.1.1	Storm water pollution prevention - Local ordinance			See Waterfront Plaza Drawing package
5.106.1.2	Storm water pollution prevention - Best management practices			See Waterfront Plaza Drawing package
5.106.4	Bicycle parking			See Waterfront Plaza Drawing package
5.106.4.1	Bicycle parking [BSC]			See Waterfront Plaza Drawing package
5.106.4.1.1	Short-term bicycle parking [BSC]			See Waterfront Plaza Drawing package
5.106.4.1.2	Bicycle parking - Long-term bicycle parking			See Waterfront Plaza Drawing package
5.106.4.2	Bicycle parking [DSA-SS]			See Waterfront Plaza Drawing package
5.106.4.2.1	Bicycle parking [DSA-SS] - Short-term bicycle parking			See Waterfront Plaza Drawing package
5.106.4.2.2	Bicycle parking [DSA-SS] - Long-term bicycle parking			See Waterfront Plaza Drawing package
5.106.5.2	Designated parking			See Waterfront Plaza Drawing package
5.106.5.2.1	Designated parking - Parking stall marking			See Waterfront Plaza Drawing package
5.106.8	Light pollution reduction			See Waterfront Plaza Drawing package
5.106.10	Grading and paving			See Waterfront Plaza Drawing package
5.2 ENERGY EFFICIENCY				
5.201 General				
5.201.1	Scope [BSC] California Energy Code [DSA-SS]			
5.3 WATER EFFICIENCY AND CONSERVATION				
5.301 General				
5.301.1	Scope			
5.301.2	Definitions			
5.303 Indoor Water Use				
5.303.1	Meters		•	
5.303.1.1	Meters - New buildings or additions in excess of 50,000sqft		•	
5.303.1.2	Meters - Excess consumption		•	
5.303.2	Water reduction		•	
5.303.2.1	Water reduction - Areas of addition or alteration			

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5.410.2.5.2	Commissioning - System operations training [N]		1	1	
5.410.2.6	Commissioning report [N]		1		
5.410.4	Testing and adjusting		1		
5.410.4.2	Systems		1	1	
5.410.4.3	Procedures		+	1	
5.410.4.3.1	Procedures - HVAC balancing		1	1	
5.410.4.4	Reporting		+		
5.410.4.5	Operation and maintenance (O&M) manual	•			<u> </u>
5.410.4.5.1	Operation and maintenance (O&M) manual - Inspections and reports	•	+		<u> </u>
0.410.4.0.1	Operation and maintenance (Odin) manda - inspectations and reports				
5.5 ENVIRONMENTAL QUALITY					
5.501 General					
5.501.1	Scope				
5.502.1	Definitions				
5.503 Fireplaces					
5.503.1	General				
5.503.1.1	Woodstoves		•		
5.504 Pollutant Control			Ť T		
5.504.1.3	Temporary ventilation	•			
5.504.3	Covering of duct openings and protection of mechanical equipment during construction		•		
5.504.4	Finish material pollutant control			1	
5.504.4.1	Adhesives, sealants and caulks		1		
5.504.4.3	Paints and coatings				
5.504.4.3.1	Paints and coatings - Aerosol paints and coatings				
5.504.4.3.2	Paints and coatings - Verification			1	
5.504.4.4	Carpet systems	+-	٠.		
5.504.4.4.1	Carpet systems - Carpet cushion		•		1
5.504.4.4.2	Carpet systems - Carpet adhesive		•		
5.504.4.5	Composite wood products		•		
5.504.4.5.1	Composite wood products - Early compliance		<del>-</del>	_	
5.504.4.5.3	Composite wood products - Documentation		+	+	
5.504.4.6	Resilient flooring systems		•	-	
			•	-	
5.504.4.6.1	Resilient flooring systems - verification of compliance	509	•	-	
5.504,5.3	Filters		-	-	
5.504,5.3.1	Filters - Labeling	•	-	-	
5.504.7	Environmental tobacco smoke (ETS) control	•	-	-	
			-	1	
5.505 Indoor Moisture Control			-	-	
5.505.1	Indoor moisture control		•		
			<u> </u>		
5.506 Indoor Air Quality					
5.506.1	Outside air delivery		•		
			1	1	
5.506.2	Carbon dioxide (CO2) monitoring		•		

5.303.3	Water conserving plumbing fixtures and fittings				
5.303.3.1	Water conserving plumbing fixtures and fittings - Water closets				
5.303.3.2	Water conserving plumbing fixtures and fittings - Urinals				
5.303.3.3	Showerheads				
5.303.3.3.1	Showerheads - Single showerhead				
5.303.3.3.2	Showerheads - Multiple showerheads serving one shower		•		
5.303.4	Wastewater reduction [N]		•		
5.303.6	Standards for plumbing fixtures and fittings		•		
5.304 Outdoor Water Use					
5.304.1	Outdoor water budget	•			See Waterfront Plaza Drawing package
5.304.2	Outdoor potable water use	•			See Waterfront Plaza Drawing package
5.304.3	Irrigation design	•			See Waterfront Plaza Drawing package
5.304.3.1	Irrigation controllers	•			See Waterfront Plaza Drawing package
				$\perp$	
5.4 MATERIAL CONSERVATION AND RESOURCE EFFICIENCY					
5.401 General					
5.401.1	Scope				
5.402.1	Definitions		$\perp$		
			+	$\bot$	
5.407 Water Resistance and Moisture Management					
5.407.1	Weather protection	•			A8.10 - Windscreen Schedule & Details; A10.20 Series - Roof Details
5.407.2	Moisture control	•			A10.20 Series - Roof Details
5.407.2.1	Moisture control - Sprinklers	•			A0.51 - Approvals & Conditions
5.407.2.2	Moisture control - Entries and openings	•			A8.20 - Skylignt Schedule & Details
5.407.2.2.1	Exterior door protection		•		
5.407.2.2.2	Flashing	•			A8.20 - Skylight Schedule & Details; A10.20 Series - Roof Details
			+	+-	
5.408 Construction Waste Reduction, Disposal and Recycling			_	-	
5.408.1	Construction waste management	•	_	+-	
5.408.1.1	Construction waste management plan	•	+	+	
5.408.1.2	Waste management company	•		+	
5.408.1.3	Waste stream reduction alternative	•	_	+	
5.408.1.4	Documentation	•	_	-	
5.408.3	Excavated soil and land clearing debris [BSC]	•	+	+	
5 MAR 7 F 1 M 1 M 1 M 1 M 1 M 1 M 1 M 1 M 1 M 1			+	+-	
5.410 Building Maintenance and Operation		505	+	+	
5.410.1	Recycling by occupants	•	_	+	
5.410.1.1	Additions [A]	•	_	+	
5.410.1.2	Recycling by occupants - Sample ordinance	•	_	+	<u> </u>
5.410.2	Commissioning [N]	•	_	+	<u> </u>
5.410.2.1	Commissioning - Owner's or Owner representative's Project Requirements (OPR) [N]	•	_	+-	
5.410.2.2	Commissioning - Basis of Design (BOD) [N]	•	_	_	
5.410.2.3	Commissioning - Commissioning plan [N]	•	_	+-	
5.410.2.4	Commissioning - Functional performance testing [N]	•	+		
5.410.2.5	Commissioning - Documentation and training [N]	•	$\perp$	1	
5.410.2.5.1	Commissioning - Systems manual [N]	•			

5.507 Environmental Comfort				
507.4	Acoustical control			
.507.4.1	Exterior noise transmission, prescriptive method			
.507.4.1.1	Noise exposure where noise contours are not readily available			
.507.4.2	Performance method			
.507.4.2.1	Site features			
.507.4.2.2	Documentation of compliance			
.507.4.3	Interior sound transmission			
.508 Outdoor Air Quality				
.508.1	Ozone depletion and greenhouse gas reductions	•		
5.508.1.1	Chlorofluorocarbons (CFCs)	•		
5.508.1.2	Halons	•		
5.508.2	Supermarket refrigerant leak reductions	•		
.508.2.1	Refrigerant piping	•		
.508.2.1.1	Refrigerant piping - Threaded pipe	•		
.508.2.1.2	Refrigerant piping - Copper pipe			
.508.2.1.2.1	Refrigerant piping - Anchorage	•		
5.508.2.1.3	Refrigerant piping - Flared tubing connections			
5.508.2.1.4	Elbows	•		
5.508.2.2	Valves			
.508.2.2.1	Valves - Pressure relief valves			
.508.2.2.1.1	Valves - Pressure detection			
.508.2.2.2	Valves - Access valves			
5.508.2.2.2.1	Valves - Valve caps			
5.508.2.2.2.2	Valves - Seal caps			
5.508.2.2.2.2.1	Chain tethers			
5.508.2.3	Refrigerated service cases	١.		
.508.2.3.1	Refrigerated service cases - Coil coating		1	
5.508.2.5	Pressure testing		1	
5.508.2.5.1	Pressure testing - Minimum pressure	•	1	
5.508.2.5.2	Pressure testing - Leaks	•		
.508.2.5.3	Pressure testing - Allowable pressure change	•		
.508.2.6	Evacuation	•		
.508.2.6.1	First vacuum	•		
5.508.2.6.2	Second vacuum	•		
5.508.2.6.3	Third vacuum		†	

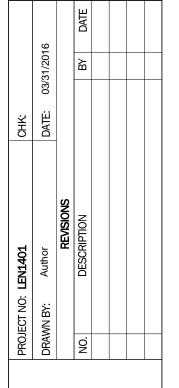
1066 HOWARD ST SAN FRANCISCO, CA 94103

LICENSE STAMP

TREASURE ISLAND
TREASURE ISLAND
SUB-PHASE 1B, 1C & 11

**PARKS** 

Ferry Shelter &
Support Structures:
Ferry &
Bus Shelters
PERMIT ISSUE



CALGREEN CHECKLIST

A0.30



### 2013 CALIFORNIA GREEN BUILDING STANDARDS CODE NONRESIDENTIAL MANDATORY MEASURES, SHEET 1

	CALIFORNIA COUNCIL IN CITATION OF THE COUNCIL IN COUNCI		ANDATORT MEASURES, SIT		
NSPECTOR SIGNOFF	CHAPTER 3	INSPECTOR SIGNOFF	5.106.4.2 Bicycle parking. [DSA-SS] For public schools and community colleges, comply with Sections 5.106.4.2.1 and 5.106.4.2.2	INSPECTOR SIGNOFF	5.303.3 WATER CONSERVING PLUMBING FIXTURES AND FITTINGS. Plumbing fixtures (water closets and
	GREEN BUILDING SECTION 301 GENERAL		5.106.4.2.1 Short-term bicycle parking. Provide permanently anchored bicycle racks within 200 feet of the student entrance, readily visible to passers-by, for 5 percent of the student population based on the total occupant load of the campus, with a minimum of one two-bike capacity rack.		5.303.3.1 Water Closets. The effective flush volume of all water closets shall not exceed 1.28 gallons per flush. Tank-type water closets shall be certified to the performance criteria of the U.S. EPA WaterSense Specification
	<b>301.1 SCOPE.</b> Buildings shall be designed to include the green building measures specified as mandatory in the application checklists contained in this code. Voluntary green building measures are also included in the application checklists and may be included in the design and construction of structures covered by this code, but		<b>5.106.4.2.2 Long-term bicycle parking.</b> Provide secure bicycle parking for 5% of employees, based on the total number of motorized vehicle parking capacity in the staff parking lot, with a minimum of one space.		for Tank-Type toilets.  Note: The effective flush volume of dual flush toilets is defined as the composite, average flush volume of two reduced flushes and one full flush.  Section 1.13 cope. The provisions of this chapter shall outline fleaths of achieving material of achieving material of achieving materials of achieving materials of achieving materials of achieving materials of this chapter shall outline fleaths of achieving materials of achieving materials of achieving materials of achieving materials of this chapter shall outline fleaths of achieving materials of
	are not required unless adopted by a city, county, or city and county as specified in Section 101.7.  301.3 NONRESIDENTIAL ADDITIONS AND ALTERATIONS. [BSC] The provisions of		Acceptable bicycle parking facilities shall be convenient from the street or staff parking area and shall meet one of the following:  1. Covered, lockable enclosures with permanently anchored racks for bicycles;		5.303.3.2 Urinals. The effective flush volume of urinals shall not exceed 0.5 gallons per flush.  5.402.1 DEFINITIONS. The following terms are defined in Chapter 2 (and are included here for reference)
	individual sections of Chapter 5 apply to newly constructed buildings, building additions of 1,000 square feet or greater, and/or building alterations with a permit valuation of \$200,000 or above (for occupancies within the		<ol> <li>Covered, lockable endostres with permanently anchored racks for bicycles,</li> <li>Lockable bicycle rooms with permanently anchored racks; or</li> <li>Lockable, permanently anchored bicycle lockers.</li> </ol>		5.303.3.3 Showerheads. 5.303.3.3.1 Single showerhead. Showerheads shall have a maximum flow rate of not more than 2.0
	authority of California Building Standards Commission). Code sections relevant to additions and alterations shall only apply to the portions of the building being added or altered within the scope of the permitted work.		5.106.5.2 DESIGNATED PARKING. In new projects or additions or alterations that add 10 or more vehicular parking spaces, provide designated parking for any combination of low-emitting, fuel-efficient and carpool/van pool		gallons per minute at 80 psi. Showerheads shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for Showerheads.  BALANCE. To proportion flows within the distribution system, including sub-mains, branches and terminals, according to design quantities.
	A code section will be designated by a banner to indicate where the code section only applies to newly constructed building [N] or to additions and alterations [AA]. When the code section applies to both, no banner will be used.		vehicles as follows:		5.303.3.3.2 Multiple showerheads serving one shower. When a shower is served by more than one showerhead, the combined flow rate of all the showerheads and/or other shower outlets controlled by a single valve shall not exceed 2.0 gallons per minute at 80 psi, or the shower shall be designed to allow only one
	SECTION 302 MIXED OCCUPANCY BUILDINGS		TABLE 5.106.5.2 - PARKING  TOTAL NUMBER OF PARKING SPACES NUMBER OF REQUIRED SPACES		shower outlet to be in operation at a time.  Note: A hand-held shower shall be considered a showerhead.  TEST. A procedure to determine quantitative performance of a system or equipment
	302.1 MIXED OCCUPANCY BUILDINGS. In mixed occupancy buildings, each portion of a building shall comply with the specific green building measures applicable to each specific occupancy.		0-9 0		5.303.4 WASTEWATER REDUCTION. [N] Each building shall reduce by 20 percent wastewater by one of the following methods:  1. IRSC. DSA SSI The installation of water consequing fixtures (water closets, urinals) meeting the criteria.  5.407.1 WEATHER PROTECTION. Provide a weather-resistant exterior wall and foundation envelope as required by
	ABBREVIATION DEFINITIONS:		10-25 1 25-50 3		established in sections 5.303.2 or 5.303.3.  California Building Code Section 1403.2 (Weather Protection) and California Energy Code Section 150,
	HCD Department of Housing and Community Development BSC California Building Standards Commission		51-75 6 76-100 8		<ol> <li>[BSC] Utilizing non-potable water systems [captured rainwater, graywater, and municipally treated wastewater (recycled water) complying with the current edition of the California Plumbing Code or other methods described in Section A5.304.8.</li> <li>[Mandatory Features and Devices), manufacturer's installation instructions or local ordinance, whichever is more stringent.</li> <li>[Mandatory Features and Devices), manufacturer's installation instructions or local ordinance, whichever is more stringent.</li> <li>[Mandatory Features and Devices), manufacturer's installation instructions or local ordinance, whichever is more stringent.</li> <li>[Mandatory Features and Devices), manufacturer's installation instructions or local ordinance, whichever is more stringent.</li> <li>[Mandatory Features and Devices), manufacturer's installation instructions or local ordinance, whichever is more stringent.</li> </ol>
	DSA-SS Division of the State Architect, Structural Safety OSHPD Office of Statewide Health Planning and Development LR Low Rise		101-150 11		5.303.6 STANDARDS FOR PLUMBING FIXTURES AND FITTINGS. Plumbing fixtures and fittings shall be installed in accordance with the California Plumbing Code, and shall meet the applicable standards referenced in Table  5.407.2.1 Sprinklers. Design and maintain landscape irrigation systems to prevent spray on structures.
	HR High Rise AA Additions and Alterations N New		151-200 16  201 AND OVER AT LEAST 8% OF TOTAL		1401.1 of the California Plumbing Code and in Chapter 6 of this code.  5.407.2.2 Entries and openings. Design exterior entries and/or openings subject to foot traffic or wind-driven rain to prevent water intrusion into buildings as follows:
			5.106.5.2.1 - Parking stall marking. Paint, in the paint used for stall striping, the following		TABLE 5.303.2.2 - WATER USE BASELINE 3  5.407.2.2.1 Exterior door protection. Primary exterior entries shall be covered to prevent water intrusion by using protection and wall finishes within at least 2 feet around and perpendicular to such openings
	CHADTED 5		characters such that the lower edge of the last word aligns with the end of the stall striping and is visible beneath a parked vehicle:		SHOWER HEADS  2.0 GPM @ 80 PSI 5 MIN. 1  X2a  plus at least one of the following:  1. An installed awning at least 4 feet in depth.  2. The door is protected by a roof overhang at least 4 feet in depth.
	CHAPTER 5 NONRESIDENTIAL MANDATORY MEASURES		CLEAN AIR / VAN POOL / EV  Note: Vehicles bearing Clean Air Vehicle stickers from expired HOV lane programs		LAVATORY FAUCETS (NON-RESIDENTIAL)  0.5 GPM @ 60 PSI 25 MIN.  2 The door is protected by a fool overnaring at least 4 feet in depth.  3 The door is recessed at least 4 feet.  4 Other methods which provide equivalent protection.
	DIVISION 5.1 PLANNING AND DESIGN		may be considered eligible for designated parking spaces.  5.106.8 LIGHT POLLUTION REDUCTION. [N] Outdoor lighting systems shall be designed and installed to comply		KITCHEN FAUCETS 2.2 GPM @ 60 PSI 4 MIN. 1 X2b 5.407.2.2.2 Flashing. Install flashings integrated with a drainage plane.
	SECTION 5.101 GENERAL 5.101.1 Scope The provisions of this chapter outline planning, design and development methods that include environmentally		with the following: 1. The minimum requirements in the California Energy Code for Lighting Zones 1-4 as defined in Chapter 10		REPLACEMENT AERATORS  2.2 GPM @ 60 PSI  WASH FOUNTAINS  2.2 [RIM SPACE (IN YOU OF DAMES OF DELL)  X  SECTION 5.408 CONSTRUCTION WASTE REDUCTION, DISPOSAL AND RECYCLING
	responsible site selection, building design, building siting and development to protect, restore and enhance the environmental quality of the site and respect the integrity of adjacent properties.		of the California Administrative Code; and 2. Backlight, Uplight and Glare (BUG) ratings as defined in IES TM-15-11; and 3. Allowable BUG ratings not exceeding those shown in Table 5.106.8, or		[IN.]/20 GPM@60 PSI]  5.408.1 CONSTRUCTION WASTE MANAGEMENT. Recycle and/or salvage for reuse a minimum of 50% of the non-hazardous construction and demolition waste in accordance with Section 5.408.1.1, 5.408.1.2 or 5.408.1.3; or
	SECTION 5.102 DEFINITIONS 5.102.1 DEFINITIONS		Comply with a local ordinance lawfully enacted pursuant to Section 101.7, whichever is more stringent.  Exceptions: [N]		METERING FAUCETS FOR .25 [RIM SPACE (IN )/20 GPM@60 PSI] 0.25 MIN. X 5.408.1.1 Construction waste management plan. Where a local jurisdiction does not have a construction and 5.408.1.1 Construction waste management plan. Where a local jurisdiction does not have a construction and
	The following terms are defined in Chapter 2 (and are included here for reference)  CUTOFF LUMINAIRES. Luminaires whose light distribution is such that the candela per 1000 lamp lumens does not		Luminaires that qualify as exceptions in Section 147 of the California Energy Code.     Emergency lighting.		GRAVITY TANK WATER CLOSET  CINCEL AND A CLOSET  CINCEL AND A CLOSET  CINCEL AND A CLOSE AN
	numerically exceed 25 (2.5 percent) at an angle of 90 degrees above nadir, and 100 (10 percent) at a vertical angle of 80 degrees above nadir. This applies to all lateral angles around the luminaire.		<b>Note:</b> [N] See also California Building Code, Chapter 12, Section 1205.6 for college campus lighting requirements for parking facilities and walkways.		FLUSHOMETER TANK WATER CLOSET  1.28 GAL/FLUSH  1 FLUSH  1 FLUSH  1 FLUSH  1 FLUSH  1 FLUSH  1 MALE1, X  3 FEMALE  2. Determines if construction and demolition waste materials will be sorted on-site (source-separated) or bulk mixed (single stream).  3 Identifies diversion facilities where construction and demolition waste material collected will be taken.
	LOW-EMITTING AND FUEL EFFICIENT VEHICLES. Eligible vehicles are limited to the following:		5.106.10 GRADING AND PAVING. Construction plans shall indicate how site grading or a drainage system will manage all surface water flows to keep water from entering buildings. Examples of methods to manage surface		FLUSHOMETER VALVE WATER CLOSET  1.28 GAL/FLUSH  1 FLUSH
	<ol> <li>Zero emission vehicle (ZEV), including neighborhood electric vehicles (NEV), partial zero emission vehicle (PZEV), advanced technology PZEV (AT ZEV) or CNG fueled (original equipment manufacturer only) regulated under Health and Safety Code section 43800 and CCR, Title 13, Sections 1961 and 1962.</li> </ol>		water include, but are not limited to, the following: 1. Swales. 2. Water collection and disposal systems.		ELECTROMECHANICAL HYDRAULIC WATER CLOSET  1.28 GAL/FLUSH 1 FLUSH 1 FLUSH 1 MALE1, 3 FEMALE  5.408.1.2 Waste Management Company. Utilize a waste management company that can provide verifiable documentation that the percentage of construction and demolition waste material diverted from the landfill
	<ol> <li>High-efficiency vehicles, regulated by U.S. EPA, bearing High-Occupancy Vehicle (HOV) car pool lane stickers issued by the Department of Motor Vehicles.</li> </ol>		<ol> <li>French drains.</li> <li>Water retention gardens.</li> <li>Other water measures which keep surface water away from buildings and aid in groundwater recharge.</li> </ol>		URINALS 0.5 GAL/FLUSH 1 FLUSH 2 MALE X complies with this section.
	NEIGHBORHOOD ELECTRIC VEHICLE (NEV). A motor vehicle that meets the definition of "low-speed vehicle" either in Section 385.5 of the Vehicle Code or in 49CFR571.500 (as it existed on July 1, 2000), and is certified to zero-emission vehicle standards.		Exception: Additions and alterations not altering the drainage path.		FIXTURE "WATER USE" = FLOW RATE X DURATION X OCCUPANTS X DAILY USES  1. THE DAILY USE NUMBER SHALL BE INCREASED TO THREE IF URINALS ARE NOT INSTALLED IN THE ROOM.  Solution of the construction and demolition waste material will be diverted by a waste management company.  Exceptions to Sections 5.408.1.1 and 5.408.1.2:
	TENANT-OCCUPANTS. Building occupants who inhabit a building during its normal hours of operation as permanent occupants, such as employees, as distinguished from customers and other transient visitors.		DIVISION 5.2 ENERGY EFFICIENCY		2. REFER TO TABLE A, CHAPTER 4, CALIF. PLUMBING CODE, FOR OCCUPANT LOAD FACTORS. a. SHOWER USE BY OCCUPANTS DEPENDS ON THE TYPE OF USE OF A BUILDING OR PORTION OF A  Lexespitor to describe to destinate 3-12.  1. Excavated soil and land-clearing debris. 2. Alternate waste reduction methods developed by working with local agencies if diversion or recycle facilities capable of compliance with this item do not exist.
	VANPOOL VEHICLE. Eligible vehicles are limited to any motor vehicle, other than a motortruck or truck tractor, designed for carrying more than 10 but not more than 15 persons including the driver, which is maintained and used		SECTION 5.201 GENERAL 5.201.1 Scope. For the purposes of mandatory energy efficiency standards in this code, the California Energy Commission will continue to adopt mandatory building standards.		BUILDING, E.G., TOTAL OCCUPANT LOAD FOR A HEALTH CLUB, BUT ONLY A FRACTION OF THE OCCUPANTS IN AN OFFICE BUILDING AS DETERMINED BY THE ANTICIPATED NUMBER OF USERS  b. NONRESIDENTIAL KITCHEN FAUCET USE IS DETERMINED BY THE OCCUPANT LOAD OF THE AREA
	primarily for the nonprofit work-related transportation of adults for the purpose of ridesharing.		DIVISION 5.3 WATER EFFICIENCY AND CONSERVATION		SERVED BY THE FIXTURE.  5.408.1.3 Waste stream reduction alternative. The combined weight of new construction disposal that does not exceed two pounds per square foot of building area may be deemed to meet the 50% minimum requirement
	Note: Source: Vehicle Code, Division 1, Section 668  ZEV. Any vehicle certified to zero-emission standards.		SECTION 5.301 GENERAL 5.301.1 Scope. The provisions of this chapter shall establish the means of conserving water use indoors, outdoors		3. USE WORKSHEET WS-1 TO CALCULATE BASELINE WATER USE.  as approved by the enforcing agency.  5.408.1.4 Documentation. Documentation shall be provided to the enforcing agency which demonstrates
	SECTION 5.106 SITE DEVELOPMENT		and in wastewater conveyance.  SECTION 5.302 DEFINITIONS 5.302.1 Definitions. The following terms are defined in Chapter 2 (and are included here for reference)		compliance with Sections 5.408.1.1, through 5.408.1.3. The waste management plan shall be updated as necessary and shall be accessible during construction for examination by the enforcing agency.
	5.106.1 STORM WATER POLLUTION PREVENTION. Newly constructed projects and additions which disturb less than one acre of land shall prevent the pollution of storm water runoff from the construction activities through one or more of the following measures:		GRAYWATER. Pursuant to Health and Safety Code Section 17922.12, "graywater" means untreated wastewater that		FIXTURE TYPE  MAX. FLOW RATE @ 20% REDUCTION  1. Sample forms found in "A Guide to the California Green Building Standards Code (Nonresidential)" located at www.bsc.ca.gov/Home/CALGreen.aspx may be used to assist in documenting compliance with the
	5.106.1.1 Local ordinance. Comply with a lawfully enacted storm water management and/or erosion control ordinance.		has not been contaminated by any toilet discharge, has not been affected by infectious, contaminated, or unhealthy bodily wastes, and does not present a threat from contamination by unhealthful processing, manufacturing, or operating wastes. "Graywater" includes, but is not limited to wastewater from bathtubs, showers, bathroom		KITCHEN FAUCETS  1.8 GPM @ 60 PSI  WASH FOUNTAINS  1.8 [RIM SPACE (IN.)/20 GPM @ 60 PSI]  waste management plan.  2. Mixed construction and demolition debris processors can be located at the California Department of Resources Recycling and Recovery (CalRecycle).
	5.106.1.2 Best Management Practices (BMP). Prevent the loss of soil through wind or water erosion by		washbasins, clothes washing machines and laundry tubs, but does not include waste water from kitchen sinks or dishwashers.		METERING FAUCETS  0.20 GALLONS/CYCLE  5.408.3 EXCAVATED SOIL AND LAND CLEARING DEBRIS. [BSC] 100 percent of trees, stumps, rocks and
	implementing an effective combination of erosion and sediment control and good housekeeping BMP.  1. Soil loss BMP that should be considered for each project include, but are not limited to, the following:  a. Scheduling construction activity.		MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO). The California ordinance regulating landscape design, installation and maintenance practices that will ensure commercial, multifamily and other developer installed landscapes greater than 2500 square feet meet an irrigation water budget developed based on landscaped area and		WASH FOUNTAINS  20 [RIM SPACE (IN.)/20 GPM @ 60 PSI]  20 [RIM SPACE (IN.)/20 GPM @ 60 PSI]  Exception: Reuse, either on or off-site, of vegetation or soil contaminated by disease or pest infestation.
	<ul> <li>b. Preservation of natural features, vegetation and soil.</li> <li>c. Drainage swales or lined ditches to control stormwater flow.</li> <li>d. Mulching or hydroseeding to stabilize disturbed soils.</li> </ul>		climatological parameters.  MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO). [HCD] The California model ordinance		SECTION 5.304 OUTDOOR WATER USE
	<ul> <li>e. Erosion control to protect slopes.</li> <li>f. Protection of storm drain inlets (gravel bags or catch basin inserts).</li> <li>g. Perimeter sediment control (perimeter silt fence, fiber rolls).</li> <li>h. Sediment trap or sediment basin to retain sediment on site.</li> </ul>		9California Code of Regulations, Title 23, Division 2, Chapter 2.7), regulating landscape design, installation and maintenance practices. Local agencies are required to adopt the updated MWELO, or adopt a local ordinance at least as effective as the MWELO.		5.304.1 WATER BUDGET. A water budget shall be developed for landscape irrigation use that installed in conjunction with a new building or an addition or alteration conforms to the local water efficient landscape ordinance or to the California Department of Water Resources Water Efficient Landscape Ordinance where no local ordinance is applicable.  1. If contamination by disease or pest intestation is suspected, contact the County Agricultural Commissioner and follow its direction for recycling or disposal of the material.  2. For a map of know pest and/or disease quarantine zones, consult with the California Department of Food and Agriculture. (www.cdfa.ca.gov)
	i. Stabilized construction exits. j. Wind erosion control. k. Other soil loss BMP acceptable to the enforcing agency.		<b>POTABLE WATER.</b> Water that is drinkable and meets the U.S. Environmental Protection Agency (EPA) Drinking Water Standards. See definition in the California Plumbing Code, Part 5.		Note: Prescriptive measures to assist in compliance with the water budget are listed in Sections 492.5 through 492.8, 492.10 and 492.11 of the ordinance, which may be found at:  SECTION 5.410 BUILDING MAINTENANCE AND OPERATIONS 5.410.1 RECYCLING BY OCCUPANTS. Provide readily accessible areas that serve the entire building and are
	Good housekeeping BMP to manage construction equipment, materials and wastes that should be considered for implementation as appropriate for each project include, but are not limited to, the following:     a. Material handling and waste management.		POTABLE WATER. [HCD] Water that is satisfactory for drinking, culinary, and domestic puroses, and meets the U.S. Environmental Protection Agency (EPA) Drinking Water Standards and the requirements of the Health Authority		http://www.water.ca.gov/wateruseefficiency/docs/WaterOrdSec492.cfm  identified for the depositing, storage and collection of non-hazardous materials for recycling, including (at a minimum) paper, corrugated cardboard, glass, plastics and metals or meet a lawfully enacted local recycling ordinance, if more restrictive.
	b. Building materials stockpile management.  c. Management of washout areas (concrete, paints, stucco, etc.).  d. Control of vehicle/equipment fueling to contractor's staging area.		Having Jurisdiction.  RECYCLED WATER. Water which, as a result of treatment of waste, is suitable for a direct beneficial use or a		water service for landscaped areas of at least 1,000 square feet but not more than 5,000 square feet (the level at which Water Code §535 applies), separate submeters or metering devices shall be installed for outdoor potable water use.  5.410.1.1 Additions. [A] All additions conducted within a 12-month period under single or multiple permits, resulting in an increase of 30% or more in floor area, shall provide recycling areas on site.
	e. Vehicle and equipment cleaning to contractor's staging area.  f. Spill prevention and control.  g. Other housekeeping BMP acceptable to the enforcing agency.		controlled use that would not otherwise occur [Water Code Section 13050 (n)]. Simply put, recycled water is water treated to remove waste matter attaining a quality that is suitable to use the water again.		5.304.3 IRRIGATION DESIGN. In new nonresidential construction with at least 1,000 but not more than 2,500 square feet of cumulative landscaped area (the level at which the MWELO applies), install irrigation controllers and
	5.106.4 BICYCLE PARKING. For buildings within the authority of California Building Standards Commission as specified in Section 103, comply with Section 5.106.4.1. For buildings within the authority of the Division of the		<b>SUBMETER.</b> A meter installed subordinate to a site meter. Usually used to measure water intended for one purpose, such as landscape irrigation. For the purposes of CALGreen, a dedicated meter may be considered a submeter.		sensors which include the following criteria, and meet manufacturer's recommendations.  5.410.1.2 Sample ordinance. Space allocation for recycling areas shall comply with Chapter 18, Part 3, Division 30 of the Public Resources Code. Chapter 18 is known as the California Solid Waste Reuse and Recycling
	State Architect pursuant to Section 105, comply with Section 5.106.4.2  5.106.4.1 Bicycle parking. [BSC] Comply with Sections 5.106.4.1.1 and 5.106.4.1.2; or meet the applicable local		WATER BUDGET. Is the estimated total landscape irrigation water use which shall not exceed the maximum applied water allowance calculated in accordance with the Department of Water Resources Model Efficient Landscape Ordinance (MWELO).		5.304.3.1 Irrigation controllers. Automatic irrigation system controllers installed at the time of final inspection shall comply with the following:  Access Act of 1991 (Act).  Note: A sample ordinance for use by local agencies may be found in Appendix A of the document at the CalRecycle's web site.
	ordinance, whichever is stricter.  5.106.4.1.1 Short-term bicycle parking. [BSC] If the project or an addition or alteration is anticipated to		SECTION 5.303 INDOOR WATER USE 5.303.1 METERS. Separate submeters or metering devices shall be installed for the uses described in Sections		1. Controllers shall be weather- or soil moisture-based controllers that automatically adjust irrigation in response to changes in plants' needs as weather conditions change.  2. Weather-based controllers without integral rain sensors or communication systems that account for local included in the design and construction processes of the building project to verify that the building systems and
	generate visitor traffic, provide permanently anchored bicycle racks within 200 feet of the visitors' entrance, readily visible to passers-by, for 5% of new visitor motorized vehicle parking spaces being added, with a minimum of one two-bike capacity rack.		503.1.1 and 503.1.2.  5.303.1.1 Buildings in excess of 50,000 square feet. Separate submeters shall be installed as follows:		rainfall shall have a separate wired or wireless rain sensor which connects or communicates with the controller(s). Soil moisture-based controllers are not required to have rain sensor input.  components meet the owner's or owner representative's project requirements. Commissioning shall be performed in accordance with this section by trained personnel with experience on projects of comparable size and complexity. Commissioning requirements shall include:
	Exception: Additions or alterations which add nine or less visitor vehicular parking spaces.  5.106.4.1.2 Long-term bicycle parking. For new buildings with over 10 tenant-occupants or for additions or		<ol> <li>For each individual leased, rented or other tenant space within the building projected to consume more than 100 gal/day (380 L/day), including, but not limited to, spaces used for laundry or cleaners, restaurant or food service, medical or dental office, laboratory, or beauty salon or barber shop.</li> </ol>		Note: More information regarding irrigation controller function and specifications is available from the Irrigation Association.  1. Owner's or Owner representative's project requirements. 2. Basis of design. 2. Commissioning measures shown in the construction documents.
	alterations that add 10 or more tenant vehicular parking spaces, provide secure bicycle parking for 5 percent of the tenant vehicle parking spaces being added, with a minimum of one space. Acceptable parking facilities shall be convenient from the street and shall meet one of the following:		<ol> <li>Where separate submeters for individual building tenants are unfeasible, for water supplied to the following subsystems:         <ul> <li>Makeup water for cooling towers where flow through is greater than 500 gpm (30 L/s).</li> </ul> </li> </ol>		<ol> <li>Commissioning plan.</li> <li>Functional performance testing.</li> <li>Documentation and training.</li> </ol>
	<ol> <li>Covered, lockable enclosures with permanently anchored racks for bicycles;</li> <li>Lockable bicycle rooms with permanently anchored racks; or</li> </ol>		<ul> <li>b. Makeup water for evaporative coolers greater than 6 gpm (0.04 L/s).</li> <li>c. Steam and hot water boilers with energy input more than 500,000 Btu/h (147 kW).</li> </ul>		7. Commissioning report.  Exceptions:  1. Dry storage warehouses of any size.
	Lockable, permanently anchored bicycle lockers.  Note: Additional information on recommended bicycle accommodations may be obtained from Sacramento Area Bicycle Advocates.	4	5.303.1.2 Excess consumption. A separate submeter or metering device shall be provided for any tenant within a new building or within an addition that is projected to consume more than 1,000 gal/day.		<ol> <li>Aréas under 10,000 square feét used for offices or other conditioned accessory spaces within dry storage warehouses.</li> <li>Tenant improvements under 10,000 square feet as described in Section 303.1.1</li> </ol>
	Area bicycle Advocates.		5.303.2 WATER REDUCTION. Plumbing fixtures shall meet the maximum flow rate values shown in Table 5.303.2.3 Exception: Building that demonstrate 20% overall water use reduction. In this case, a calculation demonstrating		<ol> <li>Commissioning requirements for energy systems covered by the 2013 California Energy Code.</li> <li>All building systems and components covered by Title 24, Part 6, as well as process equipment and controls, and</li> </ol>
		120	a 20% reduction in the building "water use baseline," as established in Table 5.303.2.2, shall be provided.  5.303.2.1 Areas of addition or alteration. For those occupancies within the authority of the California Building		renewable energy systems shall be included in the scope of the commissioning requirements.
			Standards Commission as specified in Section 103, the provisions of Section 5.303.2 and Section 5.303.3 shall		

**PARKS** Ferry Shelter &
Support Structures:
Public Restroom
50% CD

CALGREEN CHECKLIST (CONTINUED)

# 2013 CALIFORNIA GREEN BUILDING STANDARDS CODE NONRESIDENTIAL MANDATORY MEASURES, SHEET 2

INSPECTOR	
SIGNOFF	5.410.2.1 Owner's or Owner Representative's Project Requirements (OPR). [N] The expectations and
	requirements of the building appropriate to its phase shall be documented before the design phase of the p
	begins. This documentation shall include the following:
	Environmental and sustainability goals.
	<ol><li>Energy efficiency goals [refer to 2013 California Energy Code, Section 120.8(b)].</li></ol>
	<ol><li>Indoor environmental quality requirements.</li></ol>
	<ol><li>Project program, including facility functions and hours of operation, and need for after hours operation.</li></ol>
	<ol><li>Equipment and systems expectations.</li></ol>
	6. Building occupant and operation and maintenance (O&M) personnel expectations.
	5.410.2.2 Basis of Design (BOD). [A] A written explanation of how the design of the building systems me

R shall be completed at the design phase of the building project. The Basis of Design document shall cover the

- Heating, ventilation, air conditioning (HVAC) systems and controls [refer to 2013 California Energy Code,
- Section 120.8(c)]. Indoor lighting system and controls [refer to 2013 California Energy Code, Section 120.8(c)].
- Water heating system [refer to 2013 California Energy Code, Section 120.8(c)].
- Renewable energy systems. Landscape irrigation systems. Water reuse systems.

**5.410.2.3 Commissioning plan. [N]** Prior to permit issuance a commissioning plan shall be completed to document how the project will be commissioned. The commissioning plan shall include the following:

- General project information.
- 3. Systems to be commissioned. Plans to test systems and components shall include:
- a. An explanation of the original design intent. Equipment and systems to be tested, including the extent of tests.
- c. Functions to be tested
- d. Conditions under which the test shall be performed. Measurable criteria for acceptable performance.
- Commissioning team information.
- 5. Commissioning process activities, schedules and responsibilities. Plans for the completion of commissioning shall be included.

5.410.2.4 Functional performance testing. [A] Functional performance tests shall demonstrate the correct installation and operation of each component, system and system-to-system interface in accordance with the approved plans and specifications. Functional performance testing reports shall contain information addressing each of the building components tested, the testing methods utilized, and include any readings and adjustments

5.410.2.5 Documentation and training. [N] A Systems Manual and Systems Operations Training are required, including Occupational Safety and Health Act (OSHA) requirements in California Code of Regulations (CCR), Title 8, Section 5142, and other related regulations.

- 5.410.2.5.1 Systems manual. [N] Documentation of the operational aspects of the building shall be completed within the systems manual and delivered to the building owner or representative. The systems manual shall include the following:
  - 1. Site information, including facility description, history and current requirements.
  - Site contact information. Basic operations and maintenance, including general site operating procedures, basic
  - troubleshooting, recommended maintenance requirements, site events log. Major systems.
  - Site equipment inventory and maintenance notes.
  - 6. A copy of verifications required by the enforcing agency or this code. 7. Other resources and documentation, if applicable.
- 5.410.2.5.2 Systems operations training. [N] A program for training of the appropriate maintenance staff for each equipment type and/or system shall be developed and documented in the commissioning report and shall include the following:
  - 1. System/equipment overview (what it is, what it does and with what other systems and/or equipment
  - it interfaces). Review and demonstration of servicing/preventive maintenance.
  - 3. Review of the information in the Systems Manual. Review of the record drawings on the system/equipment.
- 5.410.2.6 Commissioning report. A report of commissioning process activities undertaken through the design, construction phases of the building project shall be completed and provided to the owner or representative.

Note: Guidance on implementation and enforcement of commissioning requirements, including sample compliance forms and templates, may be found in Appendix A6, Division A6.1, of this code.

5.410.4 TESTING AND ADJUSTING. Testing and adjusting of systems shall be required for buildings less than 10,000 square feet or new systems to serve an addition or alteration subject to Section 303.1.

- 5.410.4.2 Systems. Develop a written plan of procedures for testing and adjusting systems. Systems to be included for testing and adjusting shall include at a minimum, as applicable to the project:
- HVAC systems and controls 2. Indoor and outdoor lighting and controls.
- Water heating systems.
- Renewable energy systems. Landscape irrigation systems.
- Water reuse systems.

5.410.4.3 Procedures. Perform testing and adjusting procedures in accordance with manufacturer's specifications and applicable standards on each system.

5.410.4.3.1 HVAC balancing. In addition to testing and adjusting, before a new space-conditioning system serving a building or space is operated for normal use, the system shall be balanced in accordance with the procedures defined by the Testing Adjusting and Balancing Bureau National Standards; the National Environmental Balancing Bureau Procedural Standards; Associated Air Balance Council National Standards or as approved by the enforcing agency.

5.410.4.4 Reporting. After completion of testing, adjusting and balancing, provide a final report of testing signed by the individual responsible for performing these services.

5.410.4.5 Operation and maintenance (O & M) manual. Provide the building owner or representative with detailed operating and maintenance instructions and copies of guaranties/warranties for each system. O & M instructions shall be consistent with OSHA requirements in CCR, Title 8, Section 5142, and other related

5.410.4.5.1 Inspections and reports. Include a copy of all inspection verifications and reports required by the enforcing agency.

#### DIVISION 5.5 ENVIRONMENTAL QUALITY

SECTION 5.501 GENERAL

5.501.1 SCOPE. The provisions of this chapter shall outline means of reducing the quantity of air contaminants that are odorous, irritating, and/or harmful to the comfort and well-being of a building's installers, occupants and

#### SECTION 5.502 DEFINITIONS

5.502.1 DEFINITIONS. The following terms are defined in Chapter 2 (and are included here for reference)

OMMUNITY NOISE EQUIVALENT LEVEL (CNEL). A metric similar to the day-night average sound level (Ldn), except that a 5 decibel adjustment is added to the equivalent continuous sound exposure level for evening hours (7pm

COMPOSITE WOOD PRODUCTS. Composite wood products include hardwood plywood, particleboard and medium density fiberboard. "Composite wood products" does not include hardboard, structural plywood, structural panels. structural composite lumber, oriented strand board, glued laminated timber, timber, prefabricated wood l–joists or finger-jointed lumber, all as specified in California Code of Regulations (CCR), Title 17, Section 93120.1(a).

Note: See CCR, Title 17, Section 93120.1.

MERV. Filter minimum efficiency reporting value, based on ASHRAE 52.2–1999.

o 10pm) in addition to the 10 dB nighttime adjustment used in the Ldn.

REACTIVE ORGANIC COMPOUND (ROC). Any compound that has the potential, once emitted, to contribute to ozone formation in the troposphere

VOC. A volatile organic compound broadly defined as a chemical compound based on carbon chains or rings with vapor pressures greater than 0.1 millimeters of mercury at room temperature. These compounds typically contain hydrogen and may contain oxygen, nitrogen and other elements. See CCR Title 17, Section 94508(a). Note: Where specific regulations are cited from different agencies such as SCAQMD, ARB, etc., the VOC definition included in that specific regulation is the one that prevails for the specific measure in question

SECTION 5.503 FIREPLACES 5.503.1 GENERAL. Install only a direct-vent sealed-combustion gas or sealed wood-burning fireplace, or a sealed woodstove or pellet stove, and refer to residential requirements in the California Energy Code, Title 24, Part 6, Subchapter 7, Section 150. Woodstoves, pellet stoves and fireplaces shall comply with applicable local

5.503.1.1 Woodstoves. Woodstoves and pellet stoves shall comply with U.S. EPA Phase II emission limits where applicable.

SECTION 5.504 POLLUTANT CONTROL

aerosol products as specified in subsection 2, below.

SIGNOFF

5.504.1.3 Temporary ventilation. The permanent HVAC system shall only be used during construction if necessary to condition the building or areas of addition or alteration within the required temperature range for material and equipment installation. If the HVAC system is used during construction, use return air filters with a Minimum Efficiency Reporting Value (MERV) of 8, based on ASHRAE 52.2-1999, or an average efficiency of 30% based on ASHRAE 52.1-1992 Replace all filters immediately prior to occupancy, or, if the building is occupied during alteration, at the conclusion of construction.

5.504.3 Covering of duct openings and protection of mechanical equipment during construction. At the time of rough installation, or during storage on the construction site and until final startup of the heating, cooling and ventilating equipment, all duct and other related air distribution component openings shall be covered with tape, plastic, sheet metal or other methods acceptable to the enforcing agency to reduce the amount of dust, water and

5.504.4 Finish material pollutant control. Finish materials shall comply with Sections 5.504.4.1 through 5.504.4.4.

5.504.4.1 Adhesives, sealants and caulks. Adhesives, sealants, and caulks used on the project shall meet the requirements of the following standards: 1. Adhesives, adhesive bonding primers adhesive primers, sealants, sealant primers and caulks shall comply with local or regional air pollution control or air quality management district rules where applicable, or SCAQMD Rule 1168 VOC limits, as shown in Tables 5.504.4.1 and 5.504.4.2. Such products also shall comply with the Rule 1168 prohibition on the use of certain toxic compounds (chloroform, ethylene dichloride, methylene chloride, perchloroethylene and trichloroethylene), except for

2. Aerosol adhesives, and smaller unit sizes of adhesives, and sealant or caulking compounds (in units of product, less packaging, which do not weigh more than one pound and do not consist of more than 16 fluid ounces) shall comply with statewide VOC standards and other requirements, including prohibitions on use of certain toxic compounds, of California Code of Regulations, Title 17, commencing with Section 94507

TABLE 5.504.4.1 - ADHESIVE VOC LIM	POST UNITED					
Less Water and Less Exempt Compounds in Grams per Liter						
ARCHITECTURAL APPLICATIONS	CURRENT VOC LIMIT					
INDOOR CARPET ADHESIVES	50					
CARPET PAD ADHESIVES	50					
OUTDOOR CARPET ADHESIVES	150					
WOOD FLOORING ADHESIVES	100					
RUBBER FLOOR ADHESIVES	60					
SUBFLOOR ADHESIVES	50					
CERAMIC TILE ADHESIVES	65					
VCT & ASPHALT TILE ADHESIVES	50					
DRYWALL & PANEL ADHESIVES	50					
COVE BASE ADHESIVES	50					
MULTIPURPOSE CONSTRUCTION ADHESIVES	70					
STRUCTURAL GLAZING ADHESIVES	100					
SINGLE-PLY ROOF MEMBRANE ADHESIVES	250					
OTHER ADHESIVES NOT SPECIFICALLY LISTED	50					
SPECIALTY APPLICATIONS						
PVC WELDING	510					
CPVC WELDING	490					
ABS WELDING	325					
PLASTIC CEMENT WELDING	250					
ADHESIVE PRIMER FOR PLASTIC	550					
CONTACT ADHESIVE	80					
SPECIAL PURPOSE CONTACT ADHESIVE	250					
STRUCTURAL WOOD MEMBER ADHESIVE	140					
TOP & TRIM ADHESIVE	250					
SUBSTRATE SPECIFIC APPLICATIONS						
METAL TO METAL	30					
PLASTIC FOAMS	50					
POROUS MATERIAL (EXCEPT WOOD)	50					
WOOD	30					
FIBERGLASS	80					

1. IF AN ADHESIVE IS USED TO BOND DISSIMILAR SUBSTRATES TOGETHER, THE ADHESIVE WITH THE HIGHEST VOC CONTENT SHALL BE ALLOWED.

2. FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE THE VOC CONTENT SPECIFIED IN THIS TABLE, SEE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE 1168, www.arb.ca.gov/DRDB/SC/CURHTML/R1168.PDF

Less Water and Less Exempt Compounds in Grams per Liter							
SEALANTS	CURRENT VOC LIMIT						
ARCHITECTURAL	250						
MARINE DECK	760						
NONMEMBRANE ROOF	300						
ROADWAY	250						
SINGLE-PLY ROOF MEMBRANE	450						
OTHER	420						
SEALANT PRIMERS							
ARCHITECTURAL							
NONPOROUS	250						
POROUS	775						
MODIFIED BITUMINOUS	500						
MARINE DECK	760						
OTHER	750						

NOTE: FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE THE VOC CONTENT SPECIFIED IN THESE TABLES, SEE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE 1168.

5.504.4.3 Paints and coatings. Architectural paints and coatings shall comply with VOC limits in Table 1 of the ARB Architectural Coatings Suggested Control Measure, as shown in Table 5.504.4.3, unless more stringent local limits apply. The VOC content limit for coatings that do not meet the definitions for the specialty coatings categories listed in Table 5.504.4.3 shall be determined by classifying the coating as a Flat, Nonflat or Nonflat-High Gloss coating, based on its gloss, as defined in Subsections 4.21, 4.36 and 4.37 of the 2007 California Air Resources Board Suggested Control Measure, and the corresponding Flat, Nonflat or Nonflat-High Gloss VOC limit in Table 5.504.4.3 shall apply.

5.504.4.3.1 Aerosol Paints and coatings. Aerosol paints and coatings shall meet the PWMIR Limits for ROC in Section 94522(a)(3) and other requirements, including prohibitions on use of certain toxic compounds and ozone depleting substances, in Sections 94522(c)(2) and (d)(2) of California Code of Regulations, Title 17, commencing with Section 94520; and in areas under the jurisdiction of the Bay Area Air Quality Management District additionally comply with the percent VOC by weight of product limits of Regulation 8

GRAMS OF VOC PER LITER OF COATING, LESS WATER & LESS EXEMPT COMPOUNDS COATING CATEGORY CURRENT VOC LIMIT FLAT COATINGS NONFLAT COATINGS 100 NONFLAT HIGH GLOSS COATINGS 150 SPECIALTY COATINGS

350

350

100

250

500

420

250

120

450

100

500

250

420

100

350

250

50

250

730

550

350

340

TABLE 5.504.4.3 - VOC CONTENT LIMITS FOR ARCHITECTURAL

ALUMINUM ROOF COATINGS 400 BASEMENT SPECIALTY COATINGS 400 **BITUMINOUS ROOF COATINGS** 50 BITUMINOUS ROOF PRIMERS 350 BOND BREAKERS 350 CONCRETE CURING COMPOUNDS 350 CONCRETE/MASONRY SEALERS 100 DRIVEWAY SEALERS 50 DRY FOG COATINGS 150

FAUX FINISHING COATINGS FIRE RESISTIVE COATINGS FLOOR COATINGS

FORM-RELEASE COMPOUNDS GRAPHIC ARTS COATINGS (SIGN PAINTS)

HIGH-TEMPERATURE COATINGS

COATINGS23

INDUSTRIAL MAINTENANCE COATINGS LOW SOLIDS COATINGS MAGNESITE CEMENT COATINGS

MASTIC TEXTURE COATINGS METALLIC PIGMENTED COATINGS

MULTICOLOR COATINGS PRETREATMENT WASH PRIMERS PRIMERS, SEALERS, & UNDERCOATERS

REACTIVE PENETRATING SEALERS **RECYCLED COATINGS** ROOF COATINGS

RUST PREVENTATIVE COATINGS SHELLACS:

WOOD PRESERVATIVES

ZINC-RICH PRIMERS

CLEAR **OPAQUE** SPECIALTY PRIMERS, SEALERS & UNDERCOATERS

100 STAINS 250 STONE CONSOLIDANTS 450 SWIMMING POOL COATINGS 340

TRAFFIC MARKING COATINGS 100 TUB & TILE REFINISH COATINGS 420 WATERPROOFING MEMBRANES 250 WOOD COATINGS 275

 GRAMS OF VOC PER LITER OF COATING, INCLUDING WATER & EXEMPT COMPOUNDS 2. THE SPECIFIED LIMITS REMAIN IN EFFECT UNLESS REVISED LIMITS ARE LISTED IN SUBSEQUENT COLUMNS IN

3. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD, ARCHITECTURAL COATINGS SUGGESTED CONTROL MEASURE, FEB. 1, 2008, MORE INFORMATION IS AVAILABLE

5.504.4.3.2 Verification. Verification of compliance with this section shall be provided at the request of the enforcing agency. Documentation may include, but is not limited to, the following: Manufacturer's product specification Field verification of on-site product containers

5.504.4.4 Carpet Systems. All carpet installed in the building interior shall meet at least one of the testing and

Carpet and Rug Institute's Green Label Plus Program. Compliant with the VOC-emission limits and testing requirements specified in the California Department of Public Health Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers, Version 1.1, February 2010

(also known as CDPH Standard Method V1.1 or Specification 01350). NSF/ANSI 140 at the Gold level or higher; . Scientific Certifications Systems Sustainable Choice; or

5. Compliant with the California Collaborative for High Performance Schools (CA-CHPS) Criteria Interpretation for EQ 2.2 dated July 2012 and listed in the CHPS High Performance Product Database

**5.504.4.4.1 Carpet cushion.** All carpet cushion installed in the building interior shall meet the requirements of the Carpet and Rug Institute Green Label program.

5.504.4.4.2 Carpet adhesive. All carpet adhesive shall meet the requirements of Table 5.504.4.1. 5.504.4.5 Composite wood products. Hardwood plywood, particleboard and medium density fiberboard composite wood products used on the interior or exterior of the buildings shall meet the requirements for formaldehyde as specified in ARB's Air Toxics Control Measure for Composite Wood (17 CCR 93120 et seq.).

**5.504.4.5.3 Documentation.** Verification of compliance with this section shall be provided as requested

Those materials not exempted under the ATCM must meet the specified emission limits, as shown in Table

by the enforcing agency. Documentation shall include at least one of the following: Product certifications and specifications. Chain of custody certifications.

Product labeled and invoiced as meeting the Composite Wood Products regulation (see CCR, Title 17, Section 93120, et seq.).

4. Exterior grade products marked as meeting the PS-1 or PS-2 standards of the Engineered Wood Association, the Australian AS/NZS 2269 or European 636 3S standards. Other methods acceptable to the enforcing agency.

TABLE 5.504.4.5 - FORMALDEHYDE LIMITS						
MAXIMUM FORMALDEHYDE EMISSIONS IN PARTS PER MILLION						
PRODUCT	CURRENT LIMIT					
HARDWOOD PLYWOOD VENEER CORE	0.05					
HARDWOOD PLYWOOD COMPOSITE CORE	0.05					
PARTICLE BOARD	0.09					
MEDIUM DENSITY FIBERBOARD	0.11					
THIN MEDIUM DENSITY FIBERBOARD2	0.13					

. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD. AIR TOXICS CONTROL MEASURE FOR COMPOSITE WOOD AS TESTED IN ACCORDANCE WITH ASTM E 1333. FOR ADDITIONAL INFORMATION, SEE CALIFORNIA CODE OF REGULATIONS, TITLE 17, SECTIONS 93120 THROUGH

2. THIN MEDIUM DENSITY FIBERBOARD HAS A MAXIMUM THICKNESS OF 5/16 INCHES (8 MM).

5.504.4.6 Resilient flooring systems. For 80 percent of floor area receiving resilient flooring, installed resilient flooring shall meet at least one of the following:

Certified under the Resilient Floor Covering Institute (RFCI) FloorScore program; Compliant with the VOC-emission limits and testing requirements specified in the California Department of Public Health's 2010 Standard Method for the Testing and Evaluation Chambers, Version

1.1. February 2010: 3. Compliant with the California Collaborative for High Performance Schools (CA-CHPS) Criteria Interpretation for EQ 2.2 dated July 2012 and listed in the CHPS High Performance Product Database, or 4. Compliant with CDPH criteria as certified under the Greenguard Children's & Schools Program.

5.504.4.6.1 Verification of compliance. Documentation shall be provided verifying that resilient flooring materials meet the pollutant emission limits.

5.504.5.3 Filters. In mechanically ventilated buildings, provide regularly occupied areas of the building with air filtration media for outside and return air that provides at least a Minimum Efficiency Reporting Value (MERV) of 8. MERV 8 filters shall be installed prior to occupancy, and recommendations for maintenance with filters of the same value shall be included in the operation and maintenance manual.

. An ASHRAE 10% to 15% efficiency filter shall be permitted for an HVAC unit meeting the 2013 California Energy Code having 60,000 Btu/h or less capacity per fan coil, if the energy use of the air delivery system is 0.4 W/cfm or less at design air flow. Existing mechanical equipment.

.504.7 ENVIRONMENTAL TOBACCO SMOKE (ETS) CONTROL. Where outdoor areas are provided for smoking, prohibit smoking within 25 feet of building entries, outdoor air intakes and operable windows and within the building as already prohibited by other laws or regulations; or as enforced by ordinances, regulations or policies of any city, county, city and county, California Community College, campus of the California State University, or campus of the University of California, whichever are more stringent. When ordinances, regulations or policies are not in place, post signage to inform building occupants of the prohibitions.

#### SECTION 5.505 INDOOR MOISTURE CONTROL

5.505.1 INDOOR MOISTURE CONTROL. Buildings shall meet or exceed the provisions of California Building Code, CCR, Title 24, Part 2, Sections 1203 (Ventilation) and Chapter 14 (Exterior Walls). For additional measures not applicable to low-rise residential occupancies, see Section 5.407.2 of this code.

#### SECTION 5.506 INDOOR AIR QUALITY

SIGNOFF

5.506.1 OUTSIDE AIR DELIVERY. For mechanically or naturally ventilated spaces in buildings, meet the minimum requirements of Section 121 (Requirements For Ventilation) of the 2010 California Energy Code, or the applicable local code, whichever is more stringent, and Division 1, Chapter 4 of CCR, Title 8.

5.506.2 CARBON DIOXIDE (CO2) MONITORING. For buildings or additions equipped with demand control ventilation, CO2 sensors and ventilation controls shall be specified and installed in accordance with the requirements of the 2013 California Energy Code, Section 120(c)(4).

#### SECTION 5.507 ENVIRONMENTAL COMFORT

.507.4 ACOUSTICAL CONTROL. Employ building assemblies and components with Sound Transmission Class (STC) values determined in accordance with ASTM E 90 and ASTM E 413, or Outdoor-Indoor Sound Transmission Class (OITC) determined in accordance with ASTM E 1332, using either the prescriptive or performance method in Section 5.507.4.1 or 5.507.4.2.

Exception: Buildings with few or no occupants or where occupants are not likely to be affected by exterior noise, as determined by the enforcement authority, such as factories, stadiums, storage, enclosed parking structures and

Exception: [DSA-SS] For public schools and community colleges, the requirements of this section and all subsections apply only to new construction.

5.507.4.1 Exterior noise transmission, prescriptive method. Wall and roof-ceiling assemblies exposed to the noise source making up the building or addition envelope or altered envelope shall meet a composite STC rating of at least 50 or a composite OITC rating of no less than 40, with exterior windows of a minimum STC of 40 or OITC of 30 in the following locations:

Within the 65 CNEL noise contour of an airport.

1. Ldn or CNEL for military airports shall be determined by the facility Air Installation Compatible Land Use Zone (AICUZ) plan. 2. Ldn or CNEL for other airports and heliports for which a land use plan has not been developed

shall be determined by the local general plan noise element. 2. Within the 65 CNEL or Ldn noise contour of a freeway or expressway, railroad, industrial source or fixed-guideway source as determined by the Noise Element of the General Plan.

**5.507.4.2 Performance Method.** For buildings located as defined in Section 5.507.4.1 or 5.507.4.1.1, wall and roof-ceiling assemblies exposed to the noise source making up the building or addition envelope or altered envelope shall be constructed to provide an interior noise environment attributable to exterior sources that does

not exceed an hourly equivalent noise level (Leq-1Hr) of 50 dBA in occupied areas during any hour of operation. **5.507.4.2.1 Site Features.** Exterior features such as sound walls or earth berms may be utilized as appropriate to the building, addition or alteration project to mitigate sound migration to the interior.

5.507.4.2.2 Documentation of Compliance. An acoustical analysis documenting complying interior sound levels shall be prepared by personnel approved by the architect or engineer of record.

5.507.4.3 Interior sound. Wall and floor-ceiling assemblies separating tenant spaces and tenant spaces and public places shall have an STC of at least 40. Note: Examples of assemblies and their various STC ratings may be found at the California Office of Noise Control: www.toolbase.org/PDF/CaseStudies/stc\_icc\_ratings.pdf.

#### **INSTALLER & SPECIAL INSPECTOR QUALIFICATIONS 702 QUALIFICATIONS**

702.1 INSTALLER TRAINING. HVAC system installers shall be trained and certified in the proper installation of HVAC systems including ducts and equipment by a nationally or regionally recognized training or certification program. Uncertified persons may perform HVAC installations when under the direct supervision and responsibility of a person trained and certified to install HVAC systems or contractor licensed to install HVAC systems. Examples of acceptable HVAC training and certification

programs include but are not limited to the following: State certified apprenticeship programs. Public utility training programs.

3. Training programs sponsored by trade, labor or statewide energy consulting or verification 4. Programs sponsored by manufacturing organizations.

**702.2 SPECIAL INSPECTION [HCD].** When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the particular type of inspection

project they are inspecting for compliance with this code.

Other programs acceptable to the enforcing agency.

evaluating the qualifications of a special inspector: Certification by a national or regional green building program or standard publisher. Certification by a statewide energy consulting or verification organization, such as HERS raters,

building performance contractors, and home energy auditors. Successful completion of a third party apprentice training program in the appropriate trade. 4. Other programs acceptable to the enforcing agency.

HERS raters are special inspectors certified by the California Energy Commission (CEC) to rate homes in California according to the Home Energy Rating System (HERS) [BSC] When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition, the special inspector shall have a certification from a recognized state, national or international

association, as determined by the local agency. The area of certification shall be closely related to the

1. Special inspectors shall be independent entities with no financial interest in the materials or the

or task to be performed. In addition to other certifications or qualifications acceptable to the enforcing agency, the following certifications or education may be considered by the enforcing agency when

primary job function, as determined by the local agency. Note: Special inspectors shall be independent entities with no financial interest in the materials or

#### the project they are inspecting for compliance with this code. 703 VERIFICATIONS

**703.1 DOCUMENTATION.** Documentation used to show compliance with this code shall include but is not limited to, construction documents, plans, specifications, builder or installer certification, inspection reports, or other methods acceptable to the enforcing agency which demonstrate substantial conformance. When specific documentation or special inspection is necessary to verify compliance, that method of compliance will be specified in the appropriate section or identified applicable checklist.

1066 HOWARD ST SAN FRANCISCO, CA 94103

LICENSE STAMP

TREASUR SUB-PHASE

**PARKS** Ferry Shelter & Support Structures: Ferry & **Bus Shelters** 

**PERMIT ISSUE** 

CALGREEN CHECKLIST (CONTINUED)

SHEET TITLE

### Green Building: Site Permit Submittal

#### **BASIC INFORMATION:**

These facts, plus the primary occupancy, determine which requirements apply. For details, see AB 093 Attachment A Table 1.

56	Project Name	Block/Lot	Address
	TREASURE ISLAND FERRY SHELTER		AVENUE OF THE PALMS
	Gross Project Area	Primary Occupancy	Number of occupied floors
	9,240 SQ. FT.	ASSEMBLY	1

Design Professional/Applicant: Sign & Date

#### Instructions:

As part of application for site permit, this form acknowledges the specific green building requirements that apply to a project under San Francisco Green Building Code, California Title 24 Part 11, and related codes. Attachment C3, C4, C5, C6, C7, or C8 will be due with the applicable addendum. To use the form:

(a) Provide basic information about the project in the box at left. This info determines which green building requirements apply.

(b) Indicate in one of the columns below which type of project is proposed. If applicable, fill in the blank lines below to identify the number of points the project must meet or exceed. A LEED or GreenPoint checklist is not required to be submitted with the site permit application, but using such tools as early as possible is strongly recommended.

Renewable Energy or Enhanced Energy Efficiency

annual energy cost (LEED EAc2), OR

Effective January 1, 2012: Generate renewable energy on-site equal to ≥1% of total

purchase Green-E certified renewable energy credits for 35% of total electricity use (LEED EAc6).

demonstrate a 10% energy use reduction compared to Title 24 Part 6 (2013), OR

Solid circles in the column indicate mandatory measures required by state and local codes. For projects applying LEED or GreenPoint Rated, prerequisites of those systems are mandatory. See relevant codes for details.

## Submittal 1066 HOWARD ST SAN FRANCISCO, CA 94103

en Building: Attachment

7

LICENSE STAMP

**PARKS** Ferry Shelter &

Support Structures: Ferry & Bus Shelters PERMIT ISSUE

180.

TITLE 24 COMPLIANCE

ALL PROJECTS, AS APPLICABLE					
Construction activity stormwater pollution prevention and site runoff controls - Provide a construction site Stormwater Pollution Prevention Plan and implement SFPUC Best Management Practices.	•				
Stormwater Control Plan: Projects disturbing ≥5,000 square feet must implement a Stormwater Control Plan meeting SFPUC Stormwater Design Guidelines	•				
Water Efficient Irrigation - Projects that include ≥ 1,000 square feet of new or modified landscape must comply with the SFPUC Water Efficient Irrigation Ordinance.	•				
Construction Waste Management – Comply with the San Francisco Construction & Demolition Debris Ordinance	•				

Recycling by Occupants: Provide adequate space and equal access for storage, collection and loading of

compostable, recyclable and landfill materials See Administrative Bulletin 088 for details.

GREENPOINT RATED PROJEC	TS
Proposing a GreenPoint Rated Project (Indicate at right by checking the box.)	
Base number of required Greenpoints:	75
Adjustment for retention / demolition of historic features / building:	
Final number of required points (base number +/-adjustment)	
GreenPoint Rated (i.e. meets all prerequisites)	•
Energy Efficiency: Demonstrate a 10% energy use reduction compared to Title 24, Part 6 (2013).	•
Meet all California Green Building Standards Code requirements (CalGreen measures for residential projects have been integrated into the GreenPoint Rated system.)	•

#### Notes

1) New residential projects of 4 or more occupied floors must use the "New Residential High-Rise" column. New residential with 3 or fewer occupied floors must use the "New Residential Low Rise" column. 2) LEED for Homes Mid-Rise projects must meet the "Silver" standard, including all prerequisites. The number of points required to achieve Silver depends on unit size. See LEED for Homes Mid-Rise Rating System to confirm the base number of points required.

LE	EED PR	OJECT	S			
	New Large Com- mercial	New Low Rise Residential	New High Rise Residential	Large First Time Commerical Interior	Commercial Major Alteration	Residential Major Alteration
Type of Project Proposed (Indicate at right)						
Overall Requirements:						
LEED certification level (includes prerequisites):	GOLD	SILVER	SILVER	GOLD	GOLD	GOLD
Base number of required points:	60	2	50	60	60	60
Adjustment for retention / demolition of historic features / building:				n/a		
Final number of required points (base number +/- adjustment)				50		
Specific Requirements: (n/r indicates a measure is no	ot required)					
Construction Waste Management – 75% Diversion AND comply with San Francisco Construction & Demolition Debris Ordinance - LEED MR 2, 2 points	•	•	•	•	Meet C&D ordinance only	•
<b>Energy Use</b> Comply with California Title-24 Part 6 (2013) and meet LEED minimum energy performance (LEED EA p2)	•	LEED prerequisite	•	•		ED site only
Renewable Energy or Enhanced Energy Efficiency Effective 1/1/2012: Generate renewable energy on-site ≥1% of total annual energy cost (LEED EAc2), OR Demonstrate at least 10% energy use reduction (compared to Title 24 Part 6 2013), OR Purchase Green-E certified renewable energy credits for 35% of total electricity use (LEED EAc6).		n/r	n/r	n/r	n/r	n/r
<b>Enhanced Commissioning of Building Energy Systems</b> LEED EA 3	•		Mee	t LEED prerequi	sites	
Water Use - 30% Reduction LEED WE 3, 2 points	•	Meet LEED prerequisite	•	Меє	t LEED prerequ	isite
Enhanced Refrigerant Management LEED EA 4	•	n/r	n/r	•	•	n/r
Indoor Air Quality Management Plan LEED IEQ 3.1	•	CalGreen 4.504.1	CalGreen 4.504.1	CalGreen 5.504.3	CalGreen 5.504.3	CalGreen 4.504.1
Low-Emitting Materials LEED IEQ 4.1, 4.2, 4.3, and 4.4	•	•	•	•	•	•
<b>Bicycle parking:</b> Provide short-term and long-term bicycle parking for 5% of total motorized parking capacity each, or meet San Francisco Planning Code Sec 155, whichever is greater, or meet LEED credit SSc4.2.	•	See San Francisco Planning Code 155		•	See San Francisco Planning Code 155	
<b>Designated parking:</b> Mark 8% of total parking stalls for low-emitting, fuel efficient, and carpool/van pool vehicles.	•		,	•	n/r	n/r
<b>Water Meters:</b> Provide submeters for spaces projected to consume more than 1,000 gal/day, or more than 100 gal/day if in building over 50,000 sq. ft.	•	n/r	n/r	•	• (addition only)	n/r
<b>Air Filtration:</b> Provide at least MERV-8 filters in regularly occupied spaces of mechanically ventilated buildings (or LEED credit IEQ 5).	•	n/r	n/r	•	•	n/r
<b>Air Filtration:</b> Provide MERV-13 filters in residential buildings in air-quality hot-spots (or LEED credit IEQ 5). (SF Health Code Article 38 and SF Building Code 1203.5)	n/r	•	•	n/r	n/r	•
<b>Acoustical Control:</b> Wall and roof-ceilings STC 50, exterior windows STC 30, party walls and floor-ceilings STC 40.	•	See CB	C 1207	•	(envelope alteration & addition only)	n/r

Requirements below only apply when the measure is applicable to the project. Code references below are applicable to New Non-Residential buildings. Corresponding requirements for additions and alterations can be found in Title 24 Part 11, Division 5.7. Requirements for additions or alterations apply to applications received July 1, 2012 or after. <sup>3</sup>	Other New Non- Residential	Addition ≥1,000 sq ft OR Alteration ≥\$200,000³
Type of Project Proposed (Check box if applicable)	✓	
Energy Efficiency: Comply with California Energy Code, Title 24, Part 6 (2013).	•	•
<b>Bicycle parking:</b> Provide short-term and long-term bicycle parking for 5% of total motorized parking capacity each, or meet San Francisco Planning Code Sec 155, whichever is greater (or LEED credit SSc4.2).	•	•
Fuel efficient vehicle and carpool parking: Provide stall marking for low-emitting, fuel efficient, and carpool/van pool vehicles; approximately 8% of total spaces.	•	•
<b>Water Meters:</b> Provide submeters for spaces projected to consume >1,000 gal/day, or >100 gal/day if in buildings over 50,000 sq. ft.	•	Addition only
Indoor Water Efficiency: Reduce overall use of potable water within the building by 20% for showerheads, lavatories, kitchen faucets, wash fountains, water closets, and urinals.	•	•
Commissioning: For new buildings greater than 10,000 square feet, commissioning shall be included in the design and construction of the project to verify that the building systems and components meet the owner's project requirements.  OR for buildings less than 10,000 square feet, testing and adjusting of systems is required.	•	(Testing & Balancing)
Protect duct openings and mechanical equipment during construction		
roteot adot openings and inconamour equipment during construction		
Adhesives, sealants, and caulks: Comply with VOC limits in SCAQMD Rule 1168 VOC limits and California Code of Regulations Title 17 for aerosol adhesives.	•	•
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TI Ferry Shelter, San Francisco

AB005 Open Station Request

AB005 Open Station Request

ARCHITECT/ENGINEER

Donald C. Moeller, P.E.

The Fire Consultants, Inc.

**PROJECT** 

SPONSOR

AB005 Open Station Request

- 2. <u>limit enclosed spaces in the station to ticket booths and restrooms less than 150 square</u> feet and unoccupied electrical and mechanical spaces (per the definition of open stations in section 433.1.2);
- 3. not require sprinklers in the area (per exception 5 to section 903.2.17.1); and
- 4. not require any fire alarm system (per the exception to section 907.2.26). 5. Any permanent benches or interior furnishings will be either built of non-combustible materials, or woods such as IPE, heart redwood, or other suitable wood approved for decks as outlined in San Francisco DBI Information Sheet FS-01.

Case-by Case Basis of Request – Describe the practical difficulties presented in meeting the specific conditions of the code and how the proposed modification or alternate meets the intent of the code. A separate form should be filled for each requested modification or alternate. Attach copies of any Administrative Bulletin, Code Ruling, reference, test reports, expert opinions, etc., which support this request. The Department may require that an approved consultant be hired by the applicant to perform tests or analysis and to submit an evaluation report to the Department for consideration.

Although the ferry shelter covers an area with an occupant load that would be considered an assembly occupancy, it is not a high fire challenge area:

- 1. It is of non-combustible construction, with very low combustible load. The furnishings used in the area will be either low-combustible wood, as discussed above, or noncombustible materials that will not have a rapid burn rate and will not be easily ignitable.
- 2. The area is entirely open on one long side, with at least 25% open wind break on the remaining sides. It is open and vented to the exterior. This will prevent the accumulation of smoke and avoid any likelihood of a flashover condition or other similar hazards posed by fires in enclosed spaces.
- 3. The station is at-grade. Occupants will be able to egress the area without traversing any stairs or other significant elevation changes.
- 4. The egress from the shelter area is excellent. The entire east face of the project is open and available to egressing occupants to get to a public way. Other egress openings will be available from portions of the north, south and west faces of the project.
- 5. The station is entirely visually open, such that an incident at any point of the station will be visible to all occupants of the entire station.

The benefit of providing automatic sprinklers and a fire alarm evacuation system are questionable, and the maintenance problems of providing these systems in an unsecured station, open to the bay exterior environment are significant. Many of the building safety features are similar to conditions in a train passenger platform (such as a BART platform) that would be subject to the requirements being requested in this AB-005 application. The requirements for fixed guideway transit systems were developed for this type of situation. Although this application has no "train", the issues are the same, and the safety afforded this situation are much better than would be the case in a train platform: There is no train or track causing a potential fire exposure, obstacle to access and egress, and potential dynamic hazard; there are far fewer people in the ferry scenario (passenger load of 400 vs. BART load of 2,000); and the access to exits from the station is much better (entire east side vs. stair or

TI Ferry Shelter, San Francisco

AB005 Open Station Request

LAN REVIEWER COMM	ENTS:		
ECOMMENDATION igned off/dated by:]	Approve	 Approve with conditions	Disapprove
an Reviewer:			<u>v</u>

For Director of Bldg Inspection

CONDITIONALS OF APPROVA

PREAPP SUPERVISOR

TREASURE ISLAND
COMMUNITY DEVELOPMENT

DILWORTH ELIOT STUDIO 1066 HOWARD ST SAN FRANCISCO, CA 94103

LICENSE STAMP

TREASUR SUB-PHASE

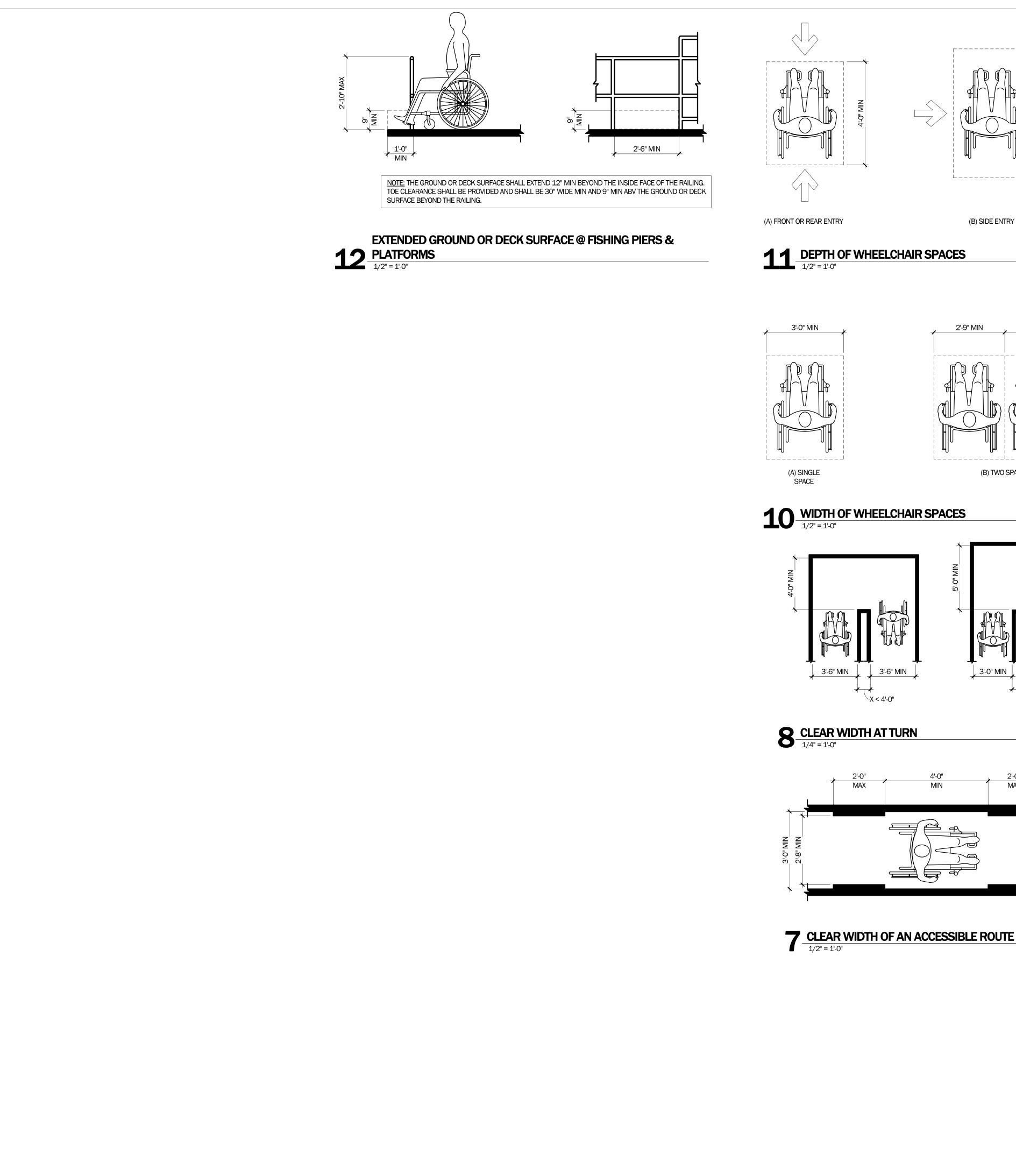
**PARKS** Ferry Shelter & Support Structures:

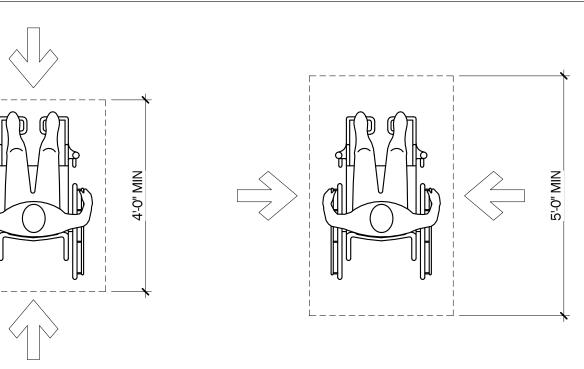
Ferry & **Bus Shelters PERMIT ISSUE** 

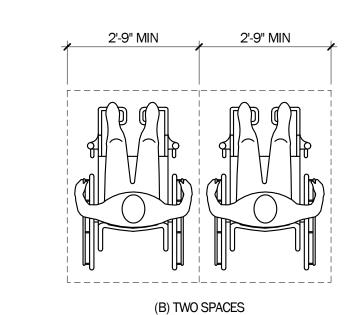
APPROVALS & CONDITIONS

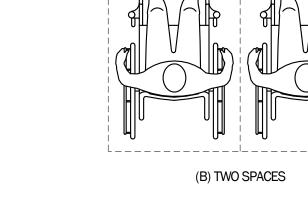
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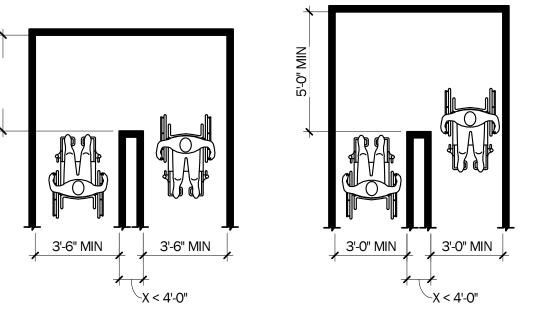
A0.51

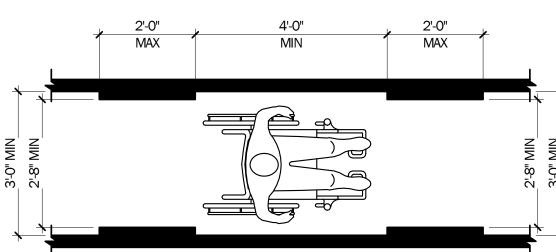






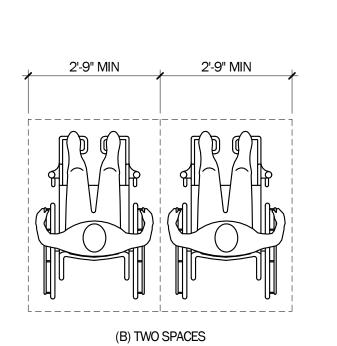


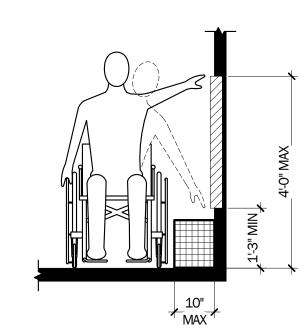




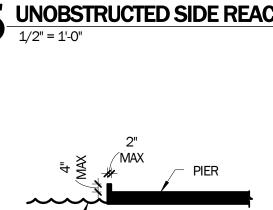
CLEAR WIDTH OF AN ACCESSIBLE ROUTE

1/2" = 1'-0"





5 UNOBSTRUCTED SIDE REACH

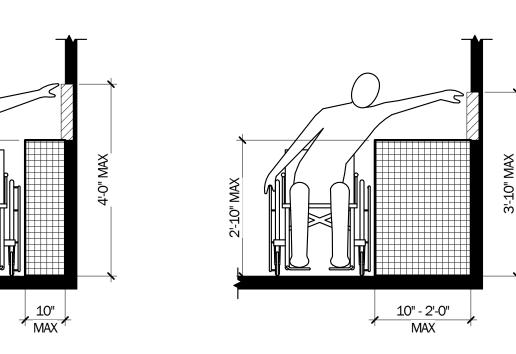


NOTE: EDGE PROTECTION SHALL BE PERMITTED AT CONTINUOUS CLEAR OPENINGS, PERMITTED THAT IT IS 4" HIGH MAX AND 2" WIDE MAX.

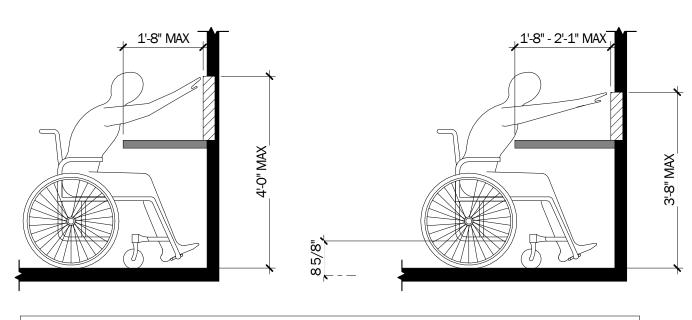




SWITCHES S.E.D. OCCUPANT SENSOR S.E.D. ELECTRICAL & DATA RECEPTACLES S.E.D.

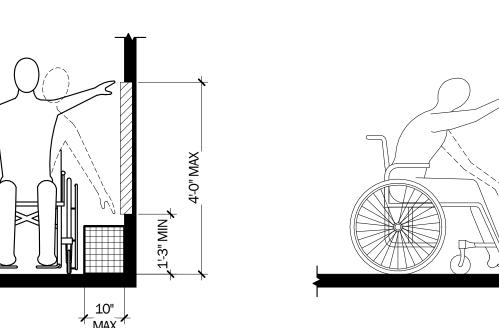


6 OBSTRUCTED HIGH SIDE REACH

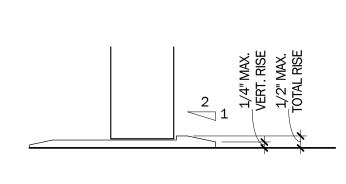


NOTE: WHERE A HIGH FORWARD REACH IS OVER AN OBSTRUCTION, THE CLEAR FLOOR SPACE SHALL EXTEND BENEATH THE ELEMENT FOR A DISTANCE NOT LESS THAN THE REQUIRED REACH DEPTH OVER THE OBSTRUCTION.

**OBSTRUCTED HIGH FORWARD REACH** 

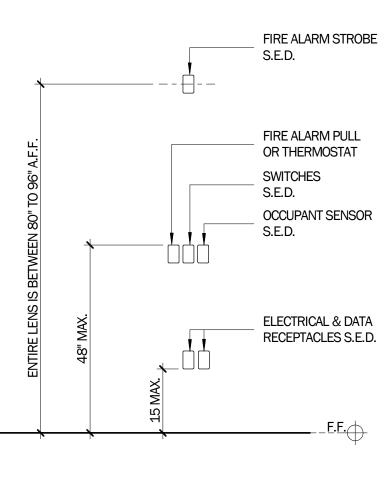


3 UNOBSTRUCTED FORWARD REACH
1/2" = 1'-0"



2 ACC\_THRESHOLD DETAILS

3" = 1'-0"



ACC\_MOUNTING HEIGHTS

1/2" = 1'-0"

ADA COMPLIANCE SHEET TITLE A0.60

NO.

1066 HOWARD ST

LICENSE STAMP

SURE ISLAND DEVE

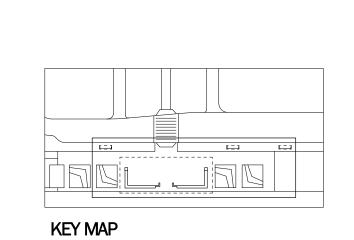
TREASUR

SUB-PHASE

**PARKS** 

Ferry Shelter &
Support Structures:
Ferry &
Bus Shelters
PERMIT ISSUE

SAN FRANCISCO, CA 94103



FIRE / LIFE SAFETY PLAN LEGEND

ASSEMBLY OCCUPANCY (FIXED GUIDEWAY TRANSIT STATION)

(DASH INDICATES ROOF LINE ABOVE)

TRAVEL DISTANCE FROM THE MOST REMOTE POINT TO THE CLOSEST EXIT

SITE FURNITURE, FIXED TO PAVING.

SEE FURNITURE PLAN

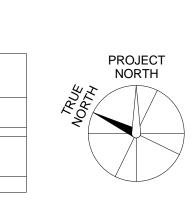
EXIT SYMBOL

PUBLIC RIGHT OF WAY

TICD
TREASURE ISLAND
COMMUNITY DEVELOPMENT

DILWORTH ELIOT STUDIO 1066 HOWARD ST SAN FRANCISCO, CA 94103

LICENSE STAMP



FIRE/LIFE SAFETY PLAN SHEET TITLE

PROJ NO.

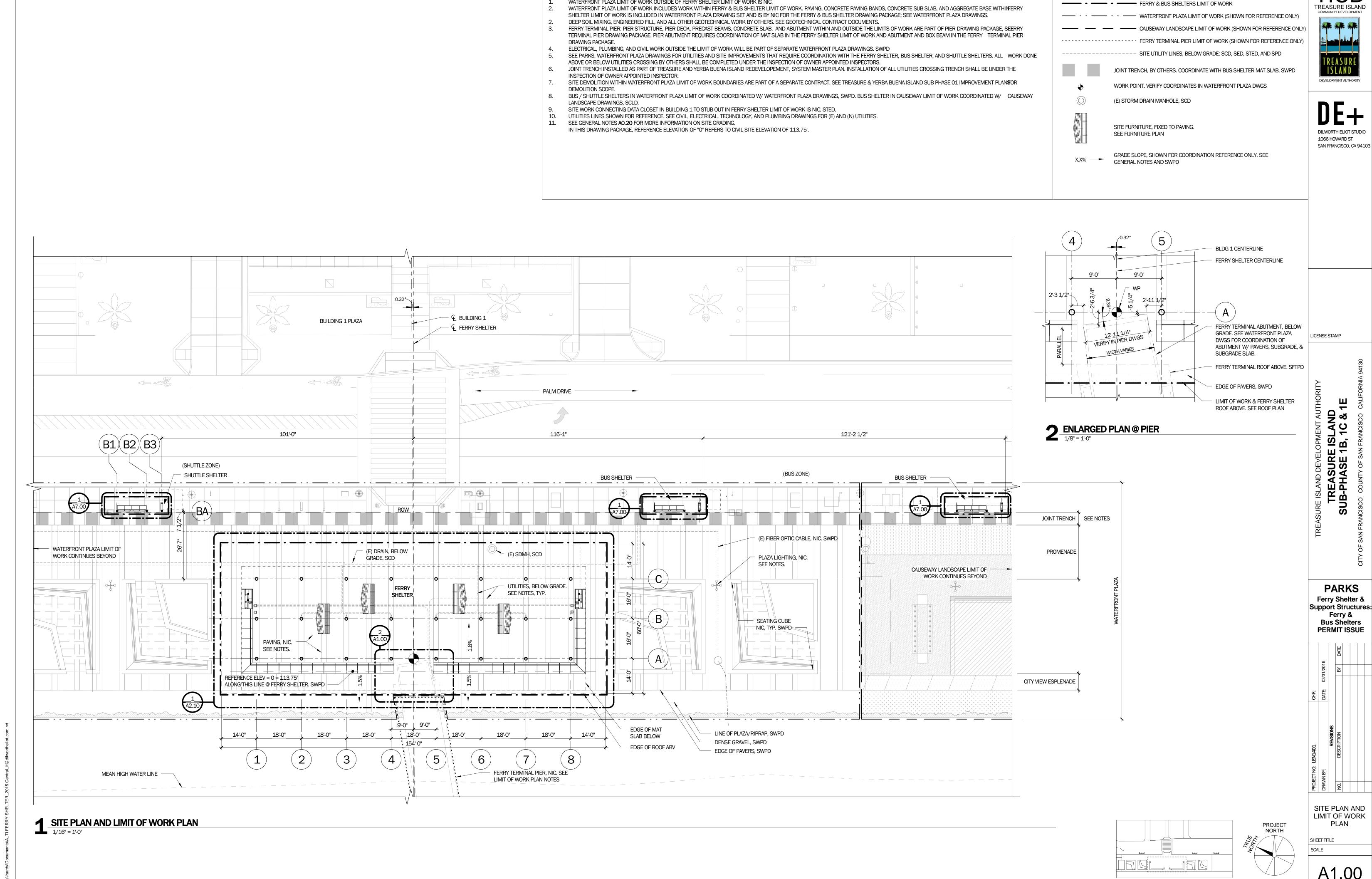
A0.70

**PARKS** 

Ferry Shelter & Support Structures:

Ferry &
Bus Shelters

PERMIT ISSUE



WATERFRONT PLAZA LIMIT OF WORK OUTSIDE OF FERRY SHELTER LIMIT OF WORK IS NIC.

SITE PLAN & LIMIT OF WORK NOTES

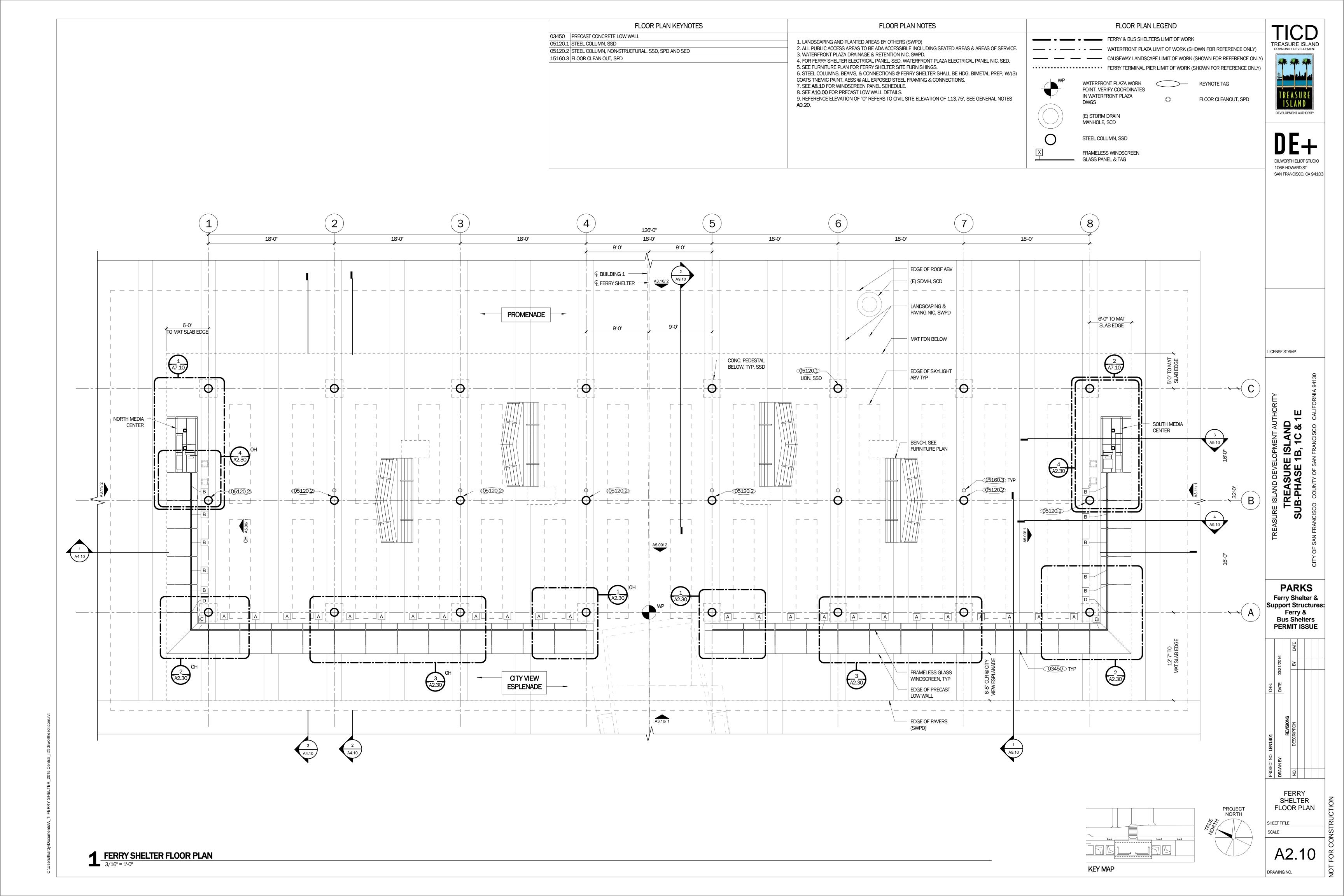
TREASURE ISLAND

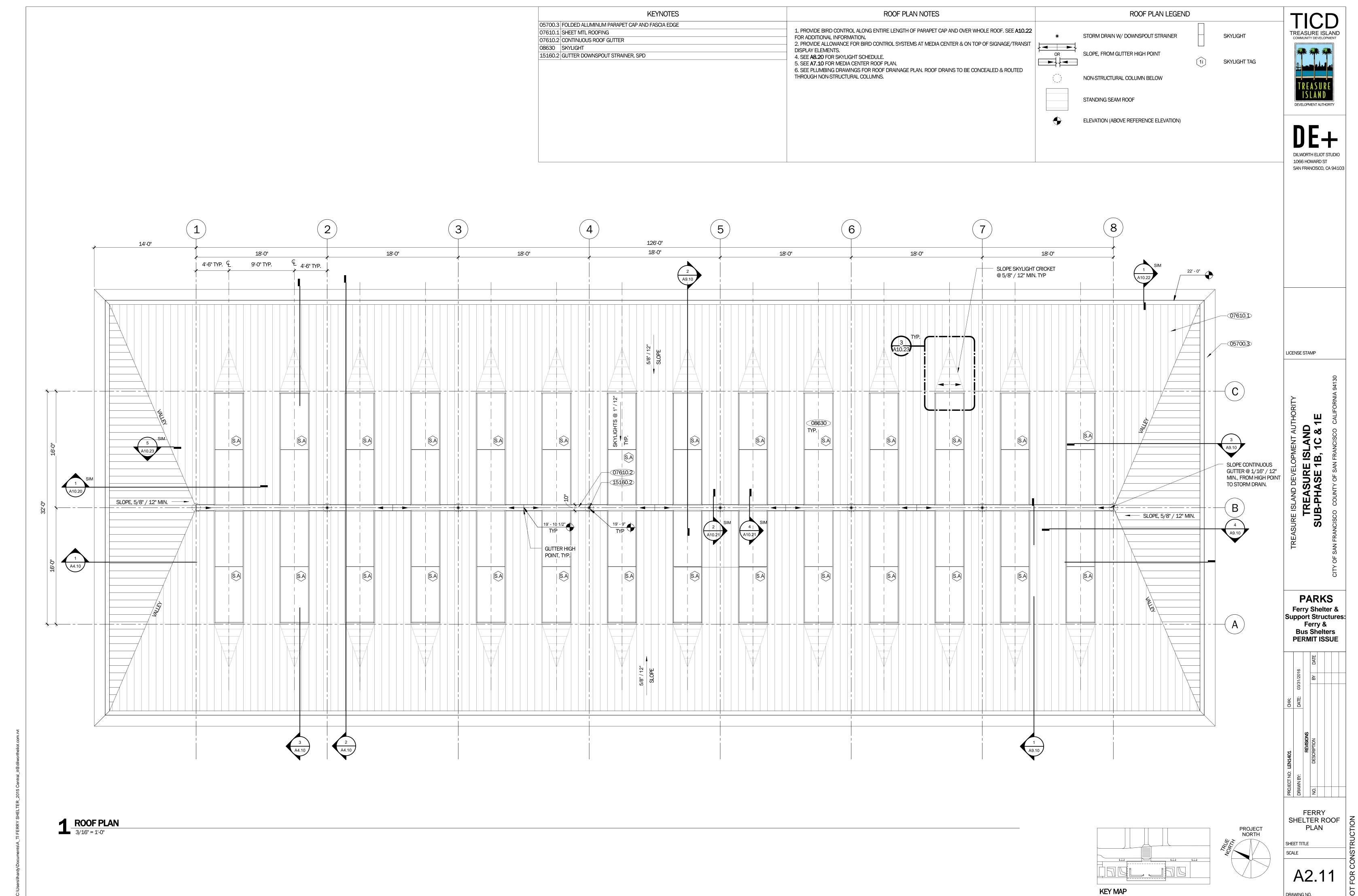
SITE PLAN LEGEND

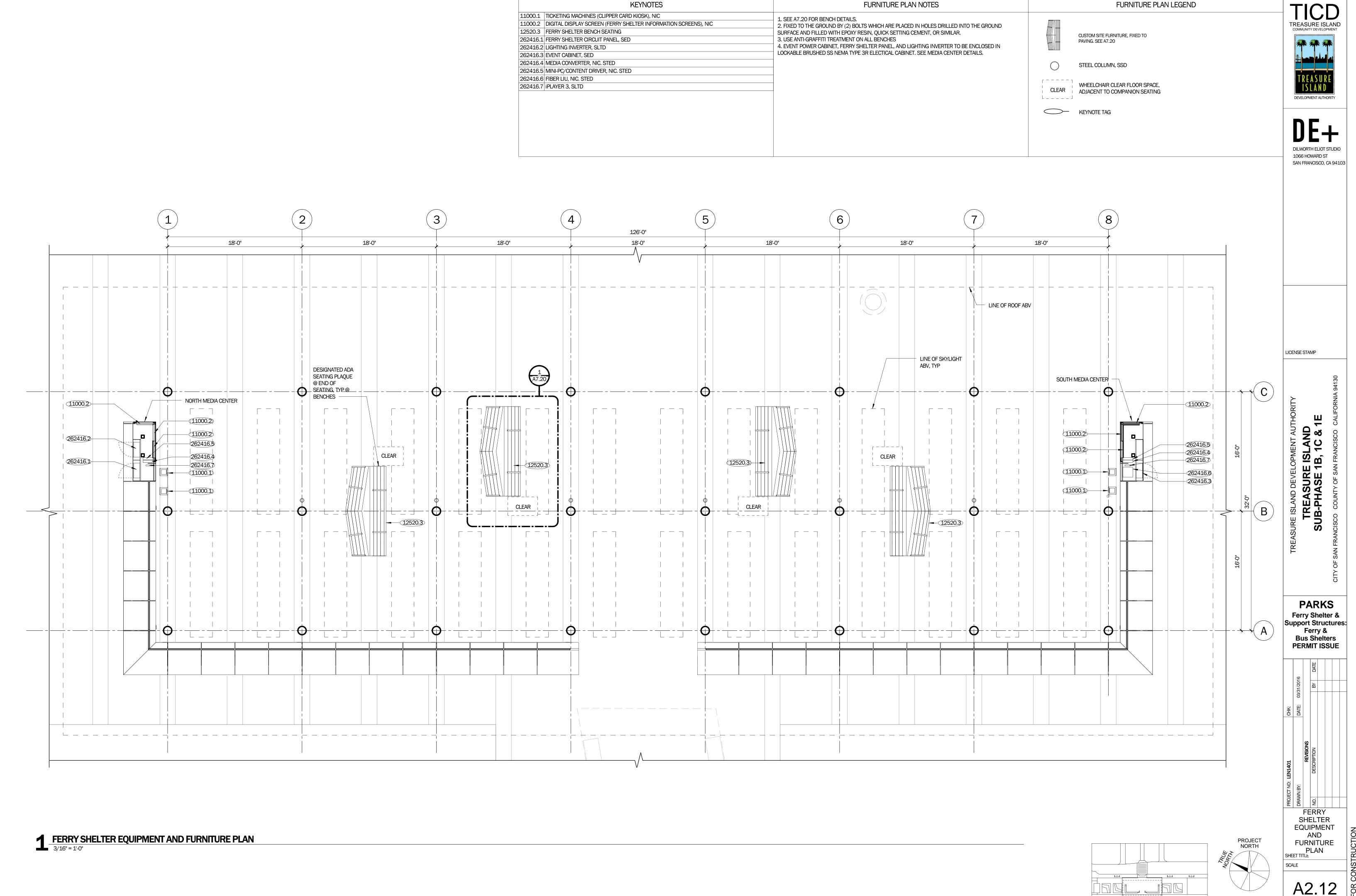
SAN FRANCISCO, CA 94103

A1.00

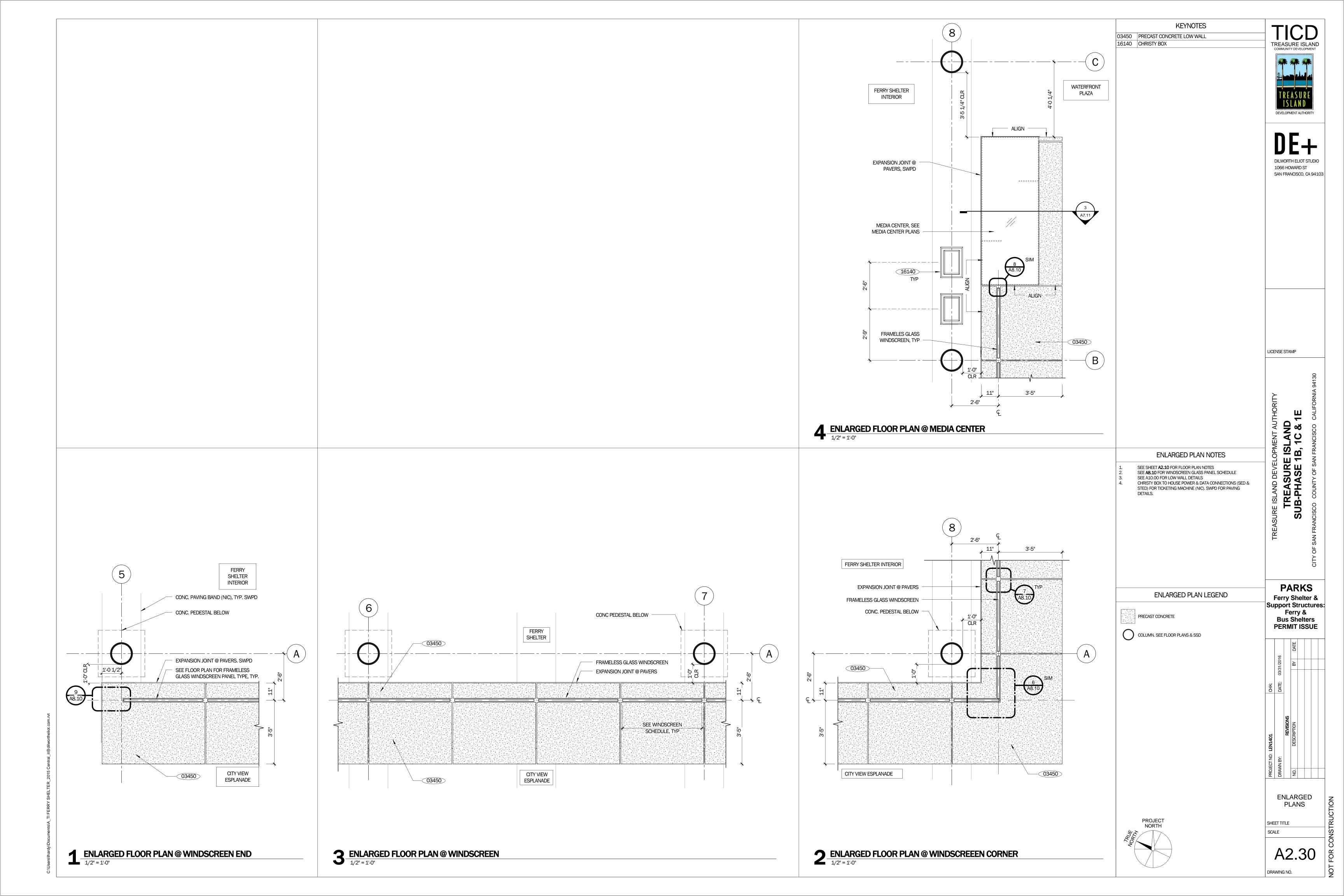
**KEY MAP** 

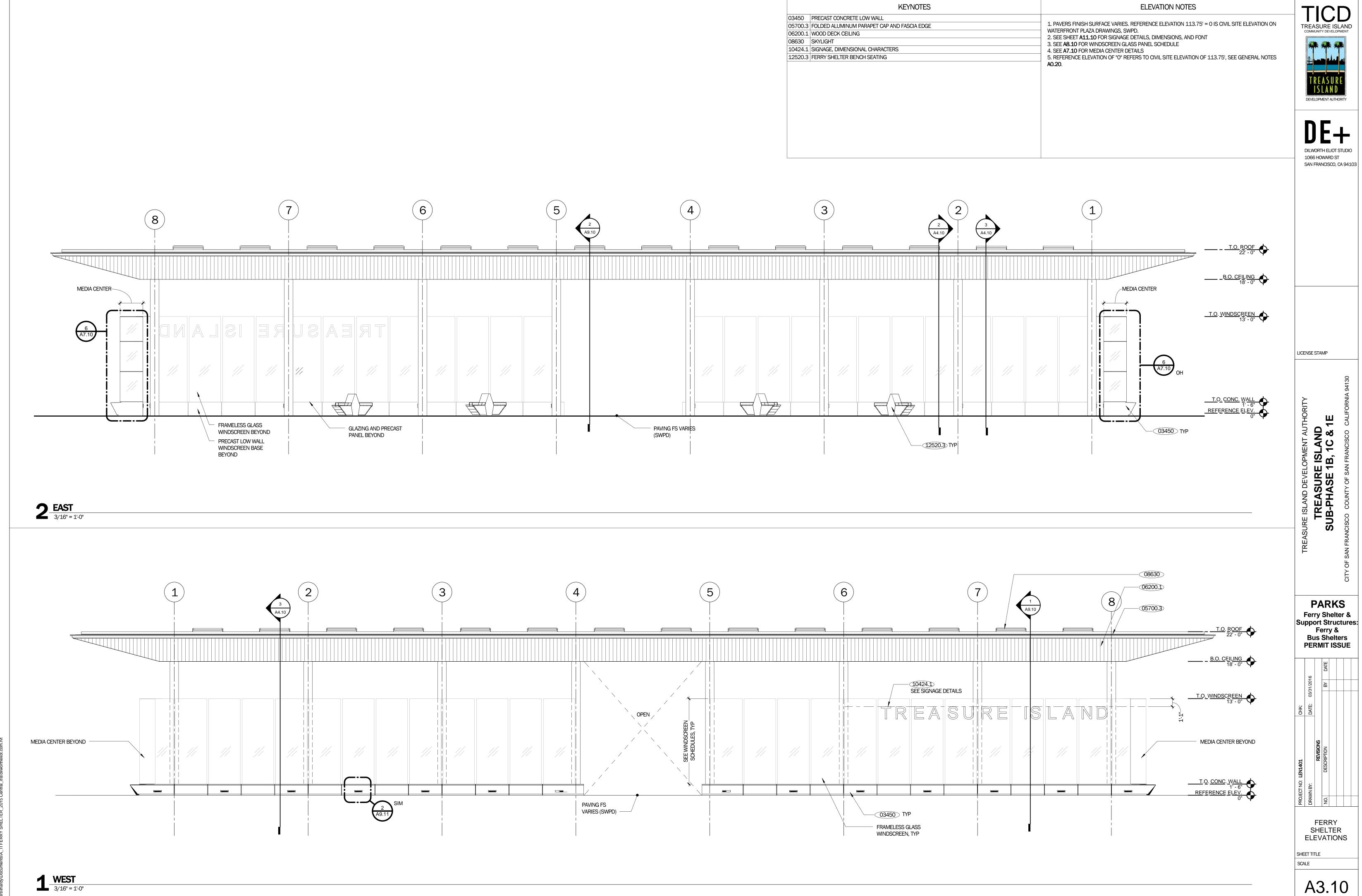


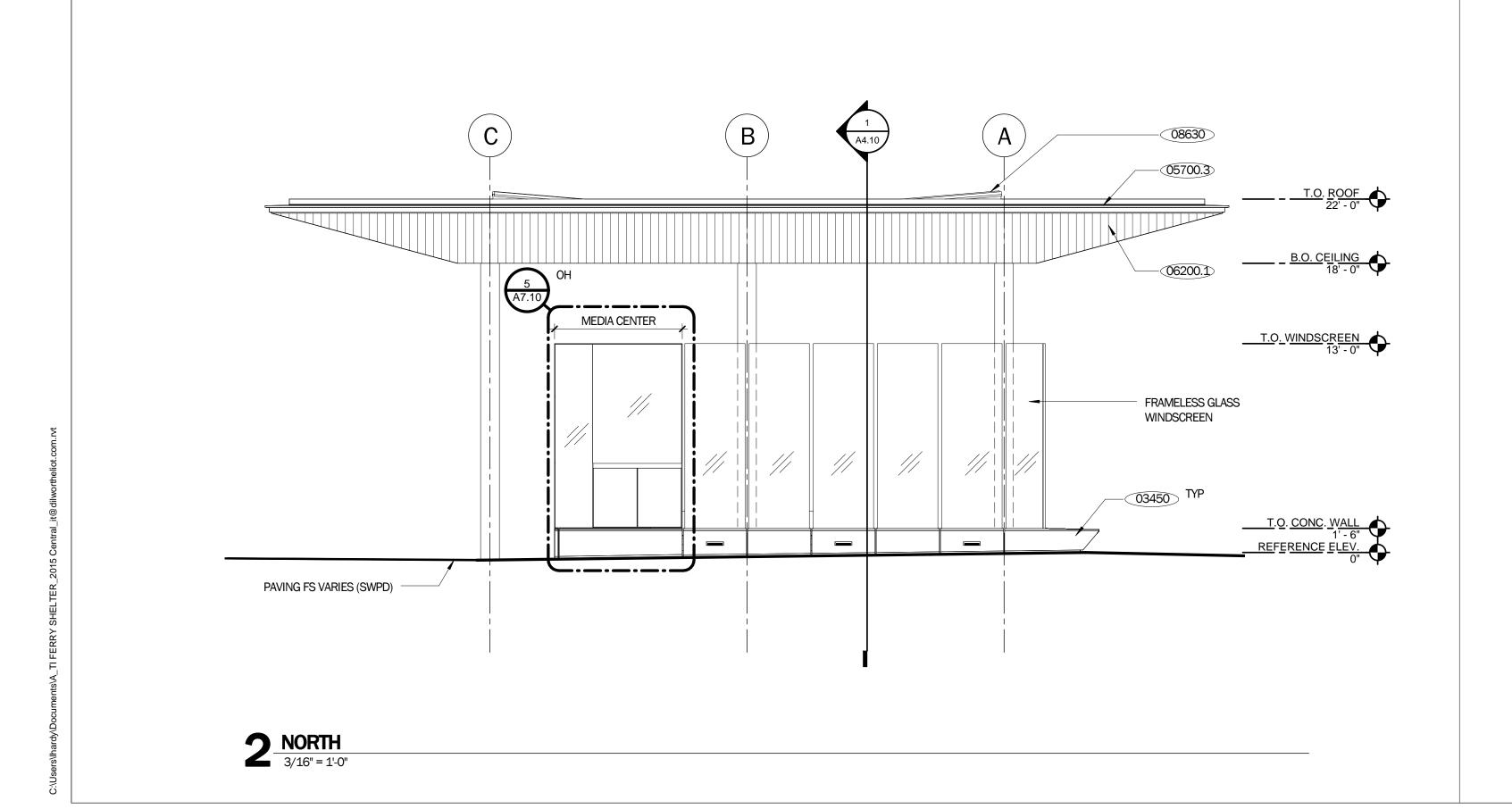


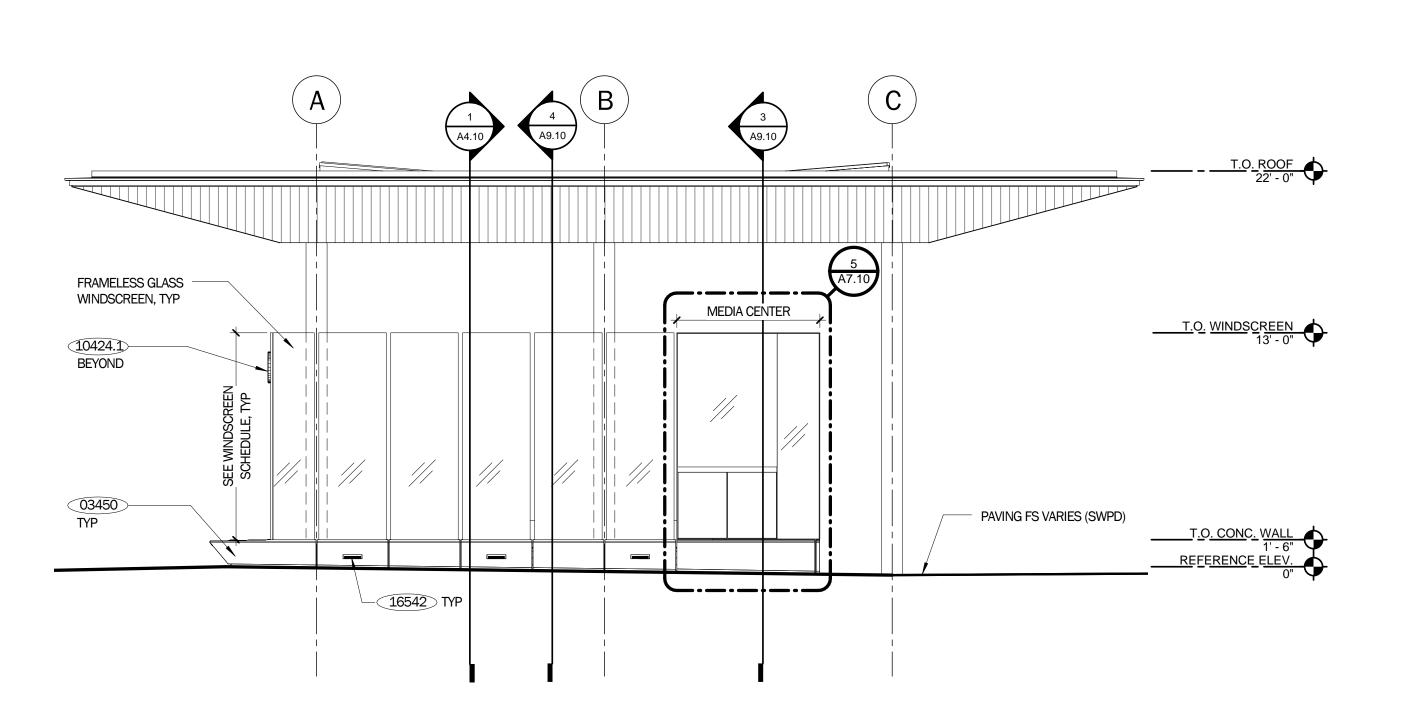


**KEY MAP** 









**1** SOUTH 3/16" = 1'-0"

TREASURE ISLAND
COMMUNITY DEVELOPMENT

TREASURE
ISLAND

DE+
DILWORTH ELIOT STUDIO
1066 HOWARD ST
SAN FRANCISCO, CA 94103

LICENSE STAMP

TREASURE ISLAND DEVELOPMENT AUTHORITY

TREASURE ISLAND

SUB-PHASE 1B, 1C & 1E

SAN FRANCISCO COUNTY OF SAN FRANCISCO CALIFORNIA 941

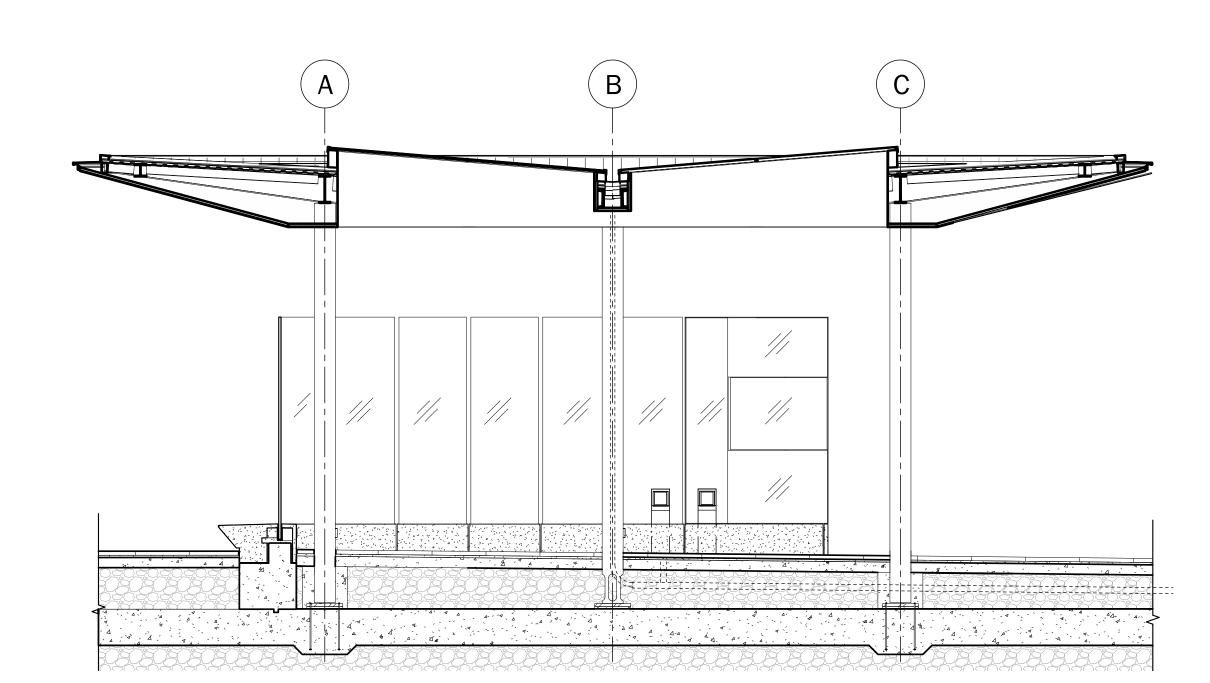
PARKS
Ferry Shelter &
Support Structures:
Ferry &
Bus Shelters
PERMIT ISSUE

FERRY SHELTER ELEVATIONS

SHEET TITLE
SCALE

A3.11

NOTE: LANDSCAPING, PAVING, SUBSLAB & SUBGRADE BY OTHERS. PROVIDED FOR REFERENCE ONLY.

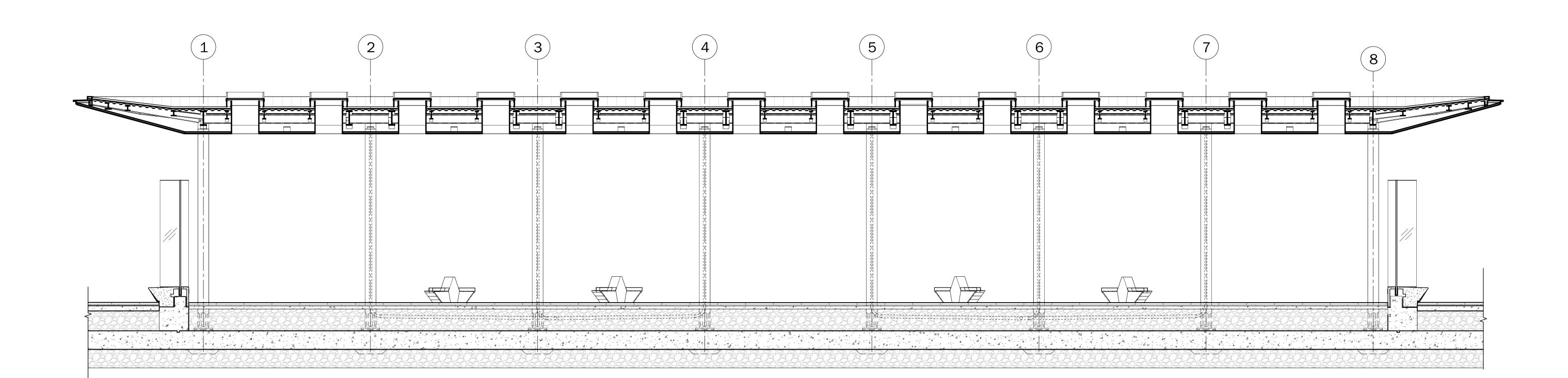


CONNECT TO STORM DRAN PIPE, SCD

**3** WEST-EAST SECTION @ SKYLIGHTS

**WEST-EAST SECTION BETWEEN SKYLIGHTS**3/16" = 1'-0"

NOTE: LANDSCAPING, PAVING, SUBSLAB & SUBGRADE BY OTHERS. PROVIDED FOR REFERENCE ONLY.



PARKS
Ferry Shelter &
Support Structures:
Ferry &
Bus Shelters
PERMIT ISSUE

1066 HOWARD ST SAN FRANCISCO, CA 94103

LICENSE STAMP

SURE ISLAND DEVELOPMENT AUTH TREASURE ISLAND SUB-PHASE 1B, 1C & 11

FERRY SHELTER SECTIONS

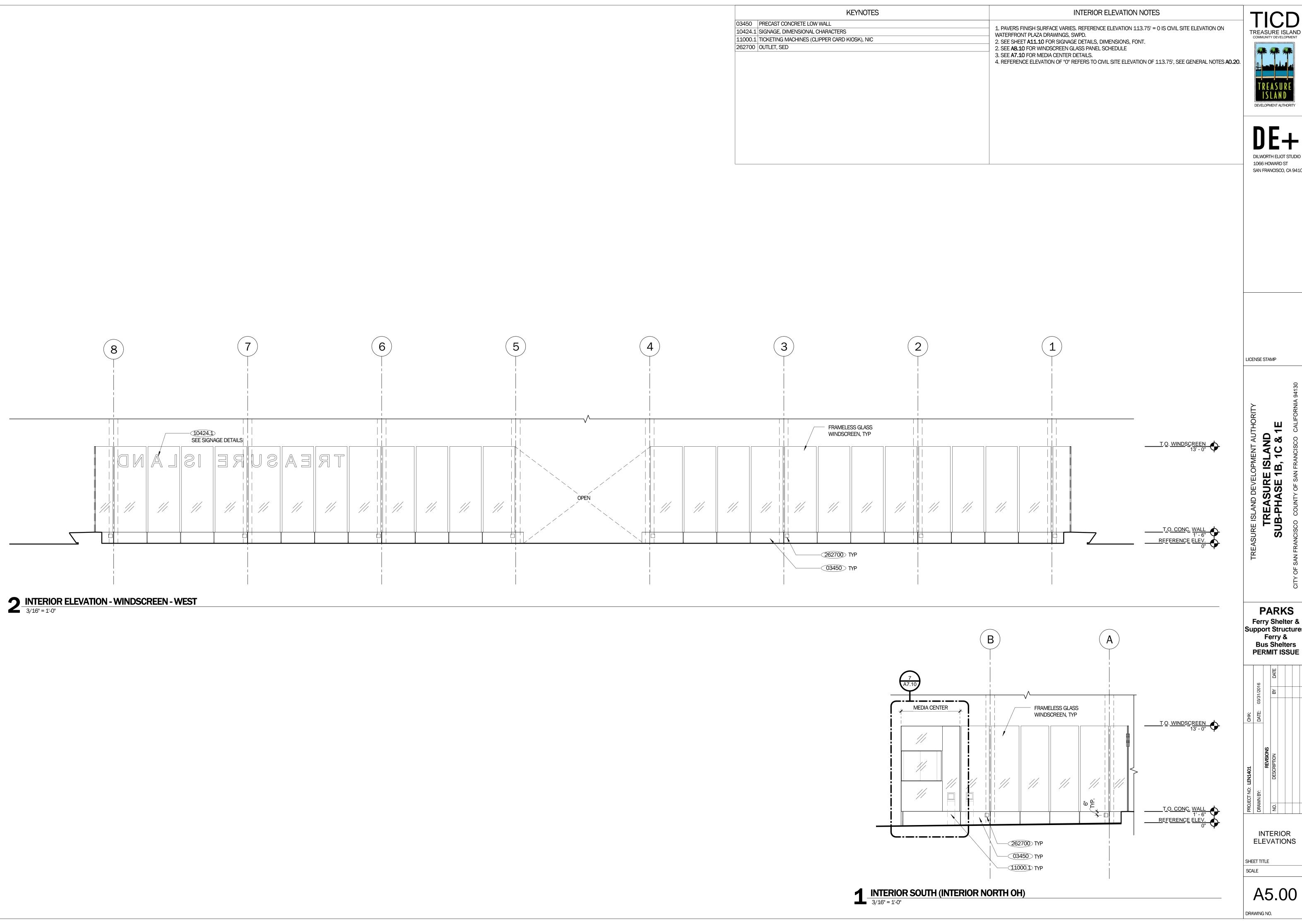
A4.10

 $\frac{\text{NORTH-SOUTH SECTION}}{3/16" = 1'-0"}$ 

nardy∖Documents∖A\_TI FERRY SHELTER\_2015 Central\_it@dilw

DRAWING NO.

SHEET TITLE



TREASURE ISLAND COMMUNITY DEVELOPMENT

DILWORTH ELIOT STUDIO 1066 HOWARD ST SAN FRANCISCO, CA 94103

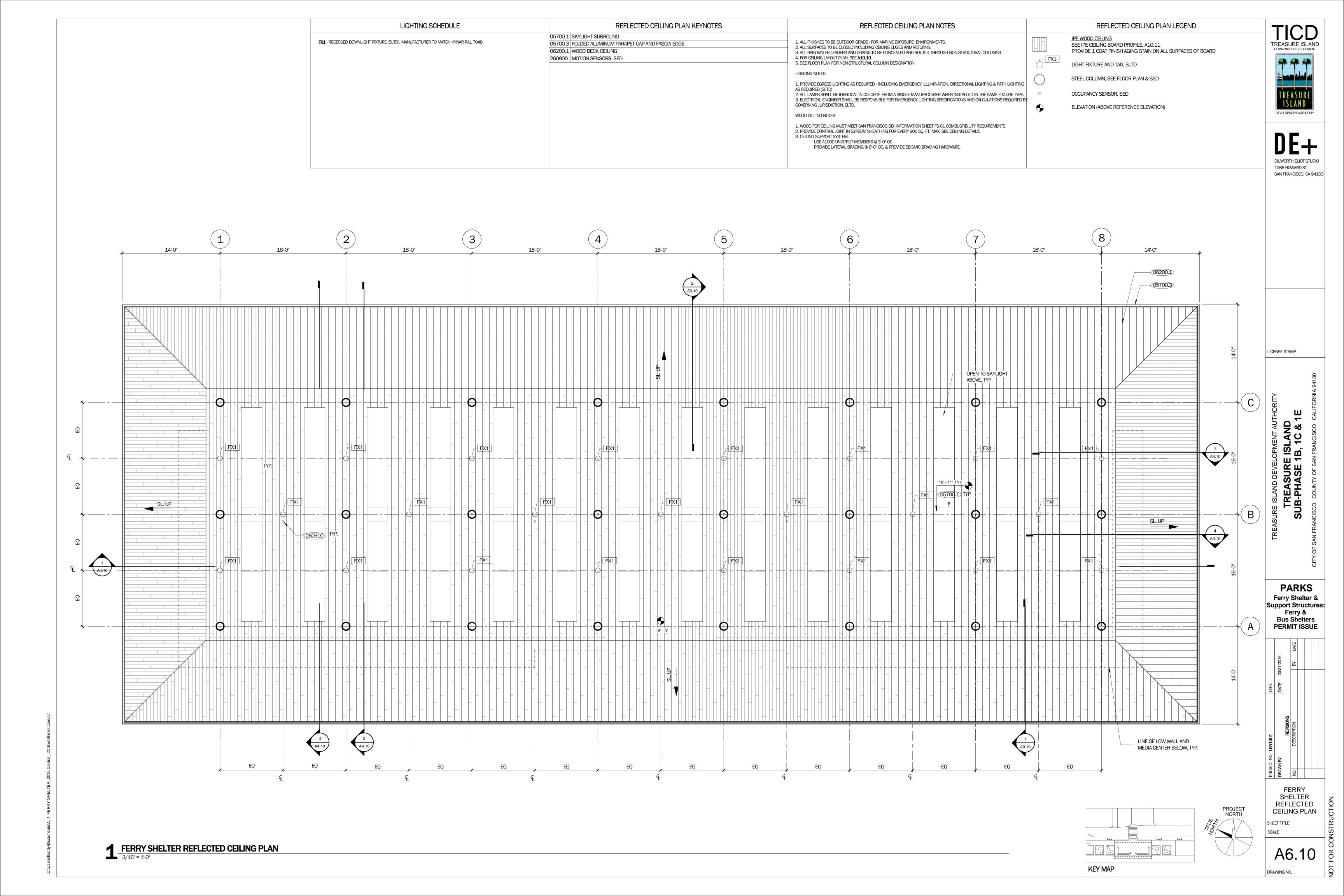
SURE ISLAND DEVELOPMENT AUTH TREASURE ISLAND SUB-PHASE 1B, 1C & 11

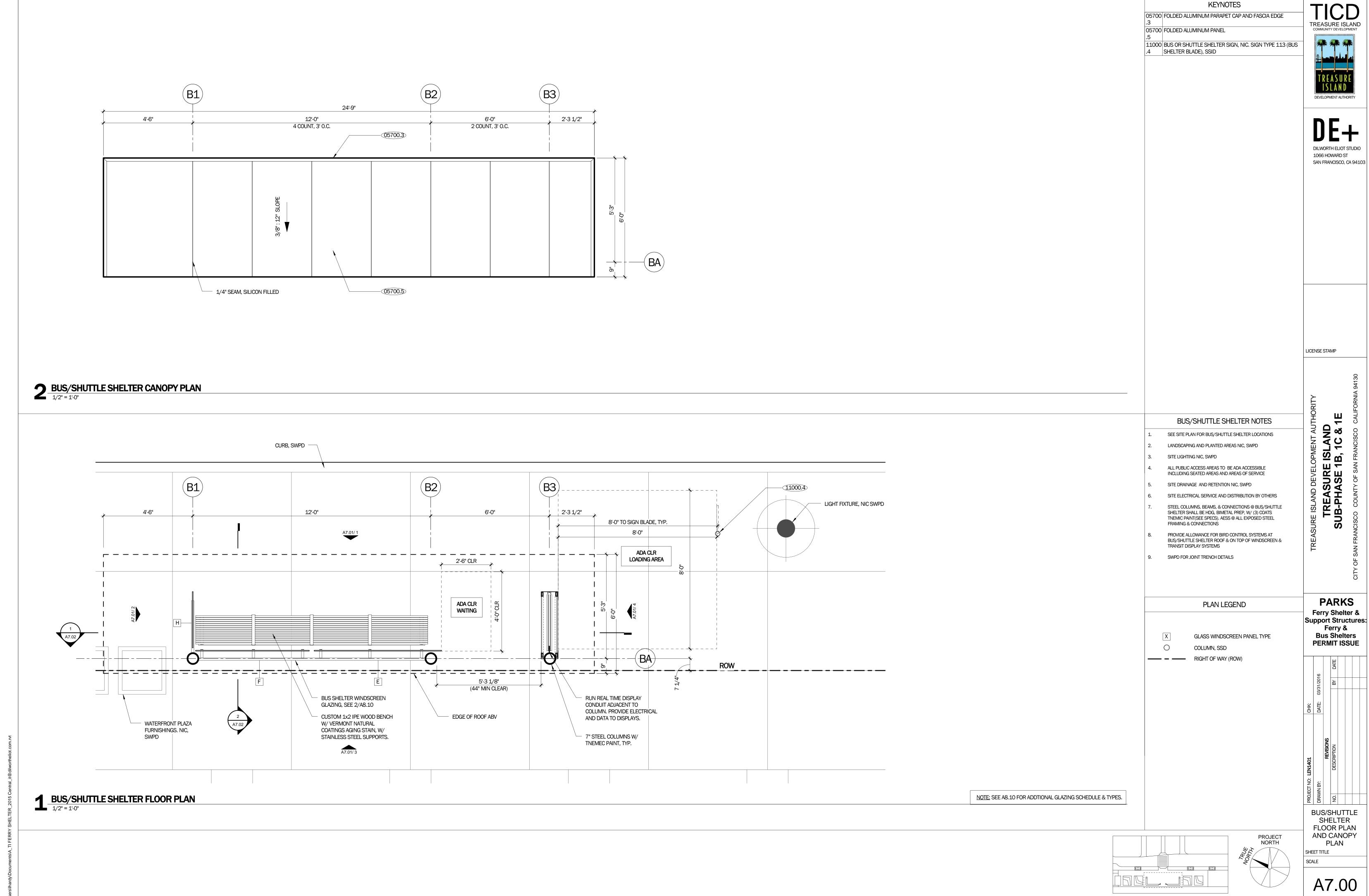
**PARKS** Ferry Shelter &
Support Structures:
Ferry &
Bus Shelters

PROJI NO.

INTERIOR ELEVATIONS

A5.00





TREASURE ISLAND COMMUNITY DEVELOPMENT

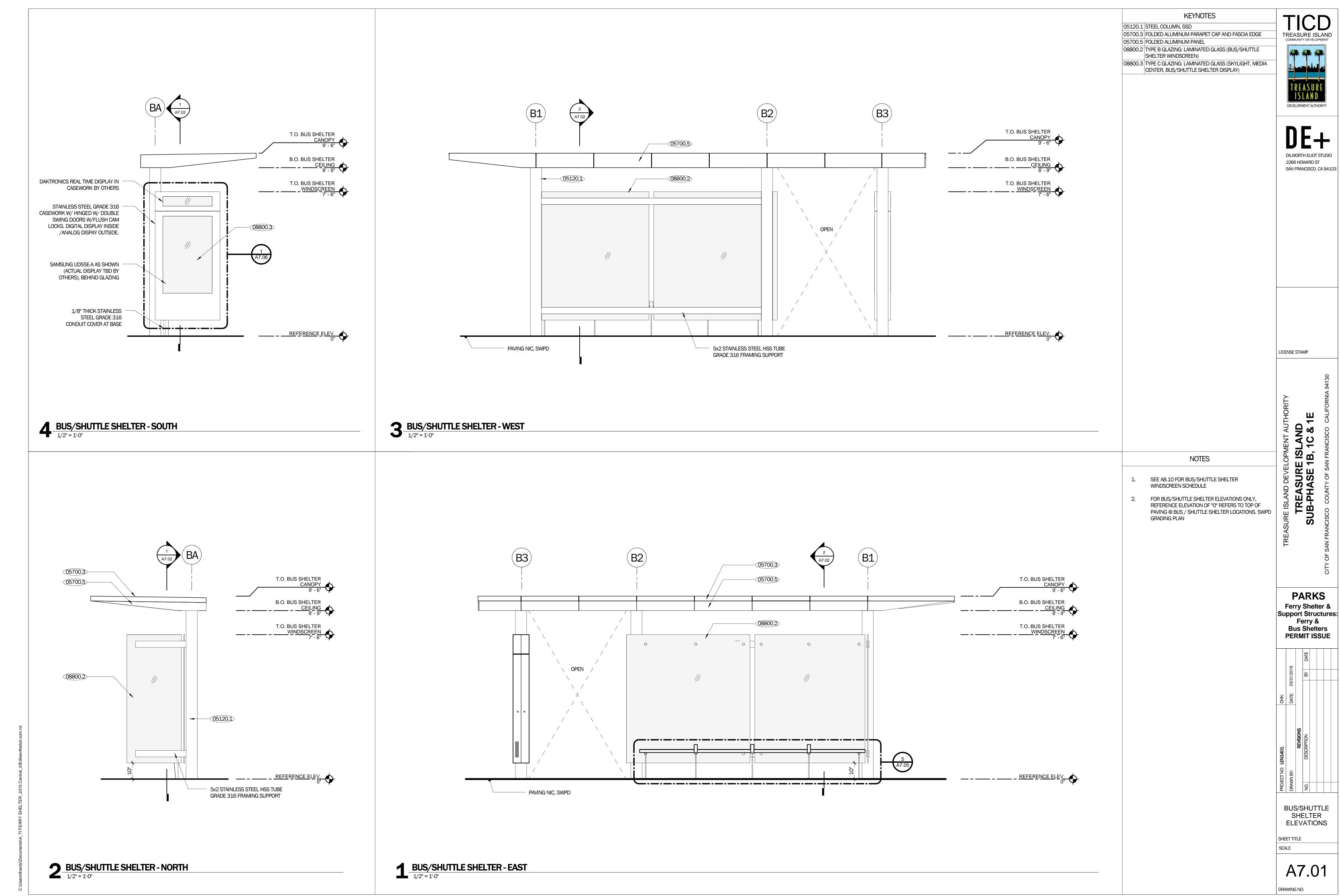
Ferry Shelter & **Support Structures: Bus Shelters** PERMIT ISSUE

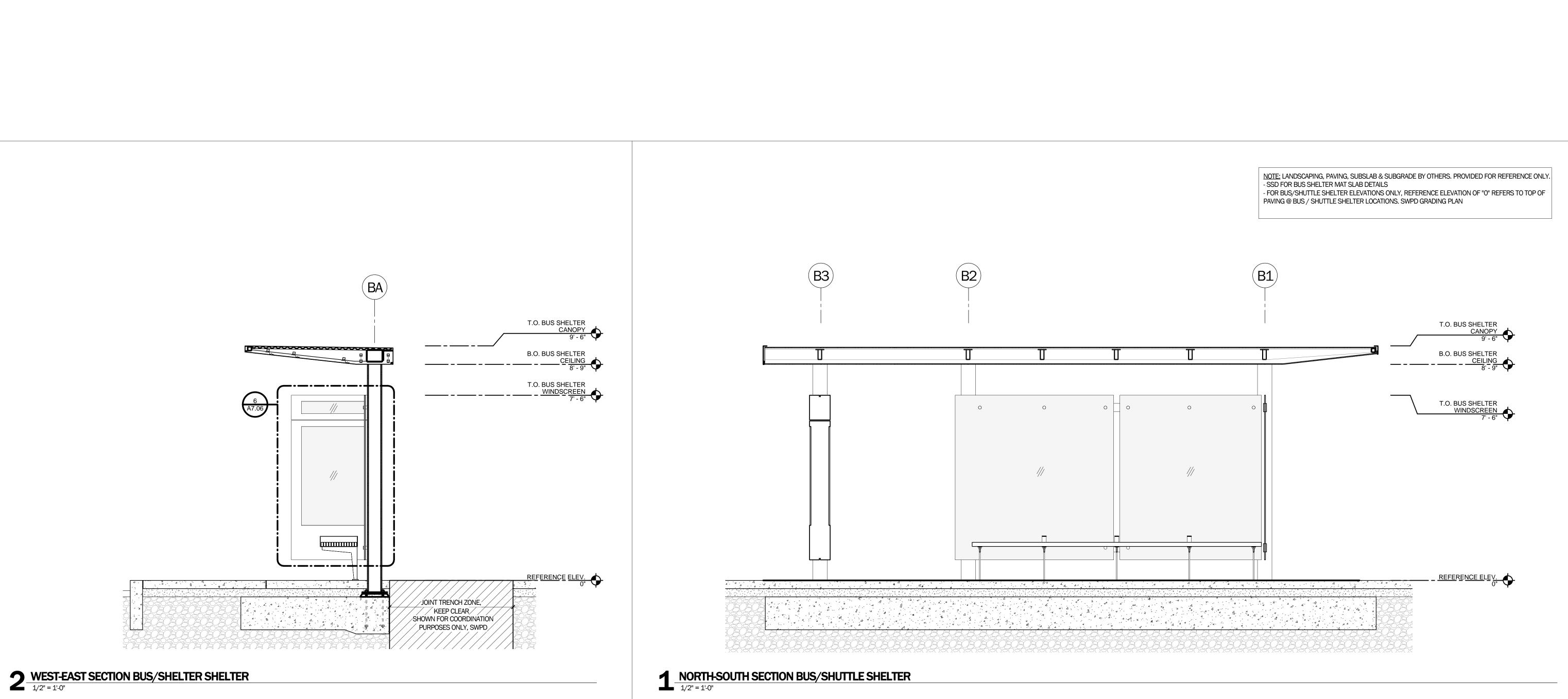
**BUS/SHUTTLE** 

A7.00

DRAWING NO.

KEY MAP





SURE ISLAND DEVELOPMENT AUTH TREASURE ISLAND SUB-PHASE 1B, 1C & 11

**PARKS** Ferry Shelter &
Support Structures:
Ferry &
Bus Shelters
PERMIT ISSUE

DILWORTH ELIOT STUDIO 1066 HOWARD ST SAN FRANCISCO, CA 94103

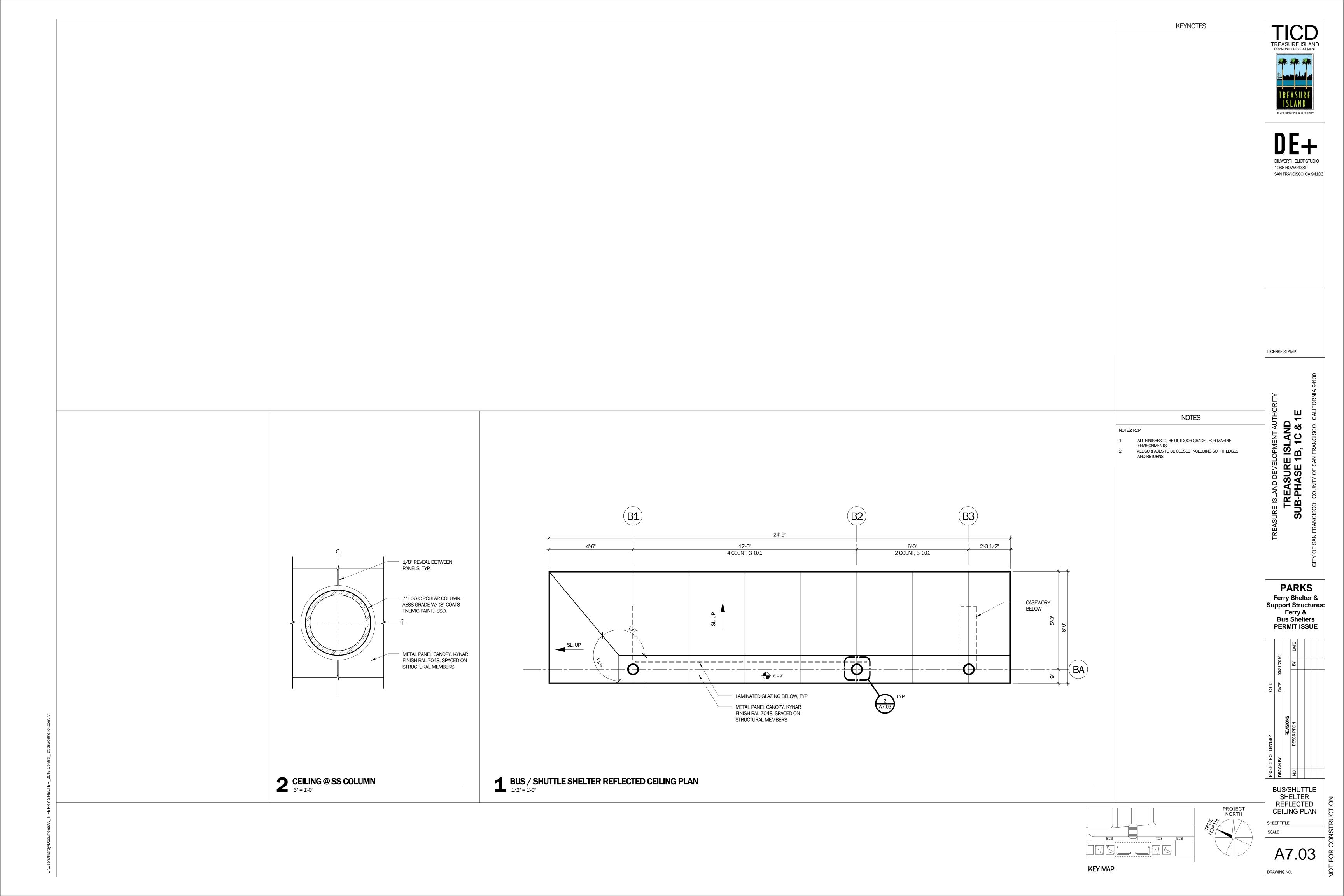
LICENSE STAMP

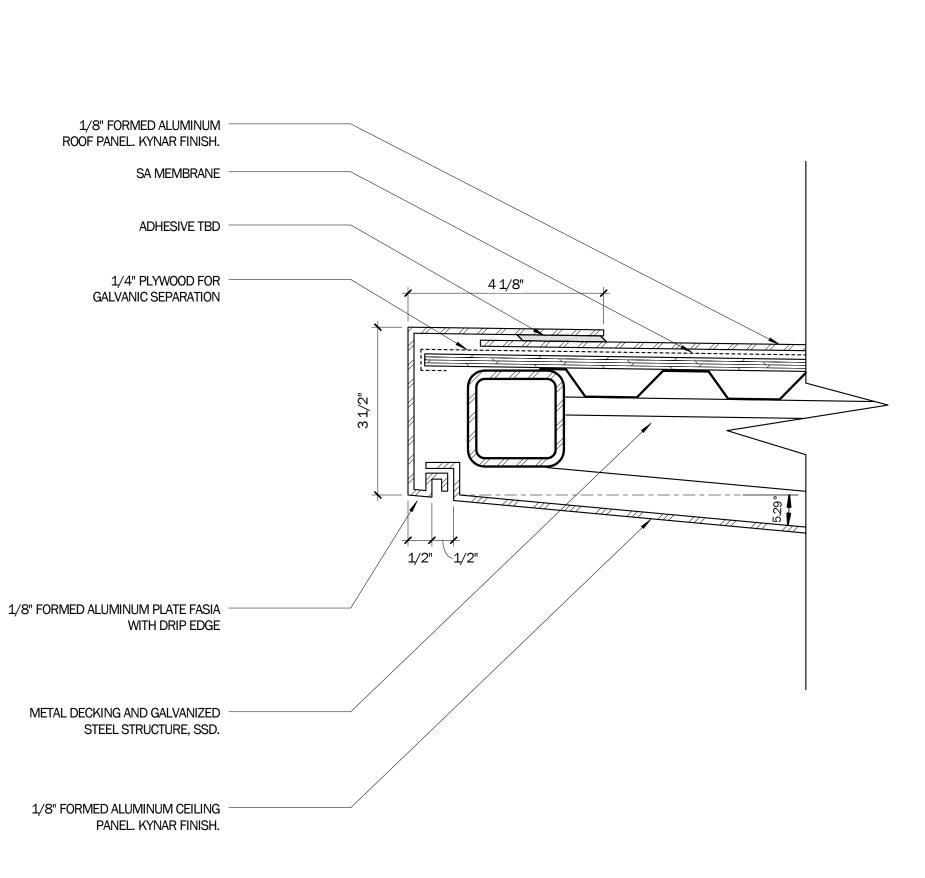
DRAN NO. BUS/SHUTTLE SHELTER SECTIONS

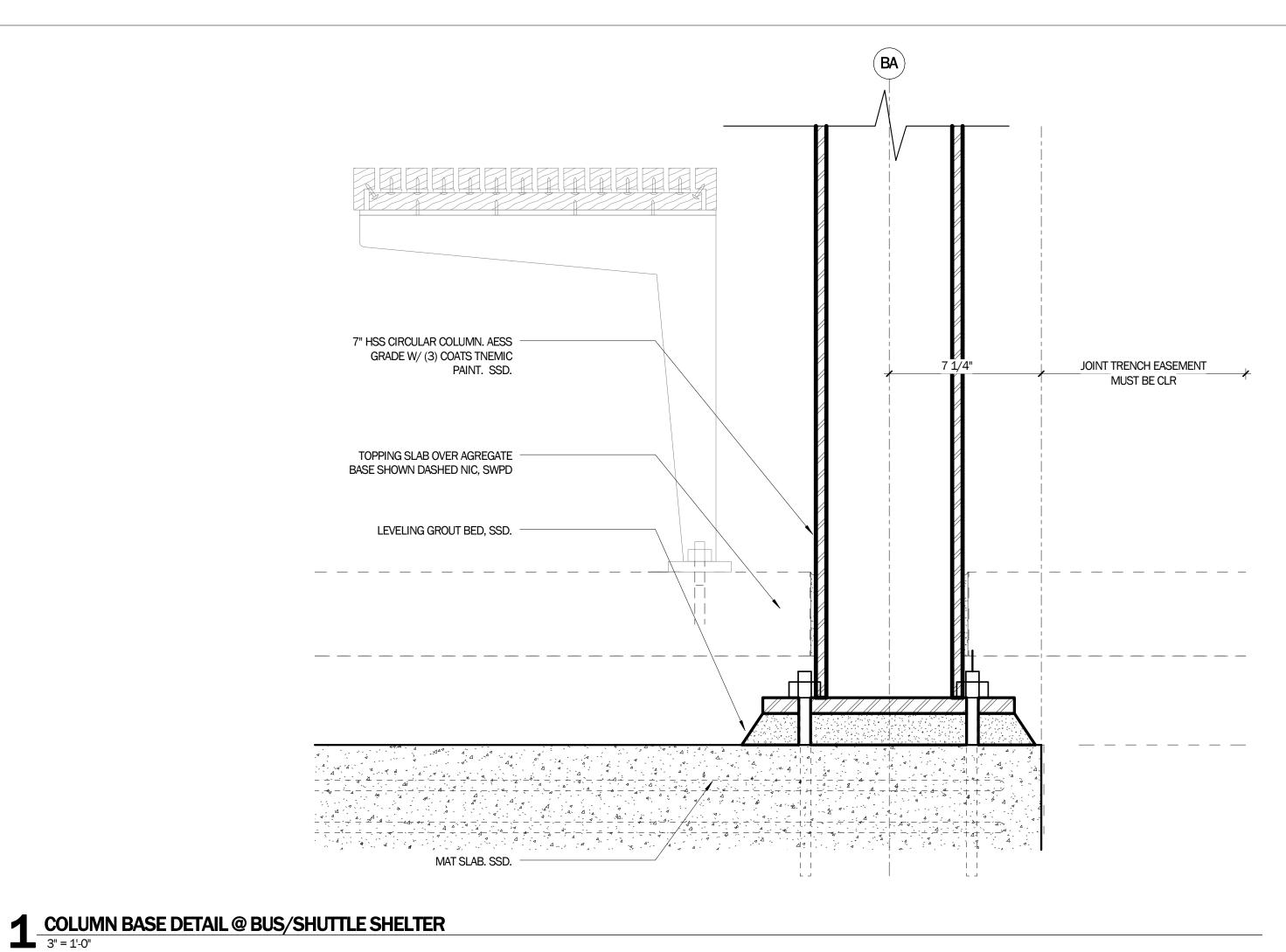
SHEET TITLE SCALE

A7.02

DRAWING NO.







TREASURE ISLAND COMMUNITY DEVELOPMENT DILWORTH ELIOT STUDIO 1066 HOWARD ST SAN FRANCISCO, CA 94103 LICENSE STAMP SURE ISLAND DEVE

TREASUR

SUB-PHASE **PARKS** Ferry Shelter & Support Structures: Public Restroom 50% CD

PASCIA DETAIL @ BUS/SHUTTLE SHELTER

6" = 1'-0"

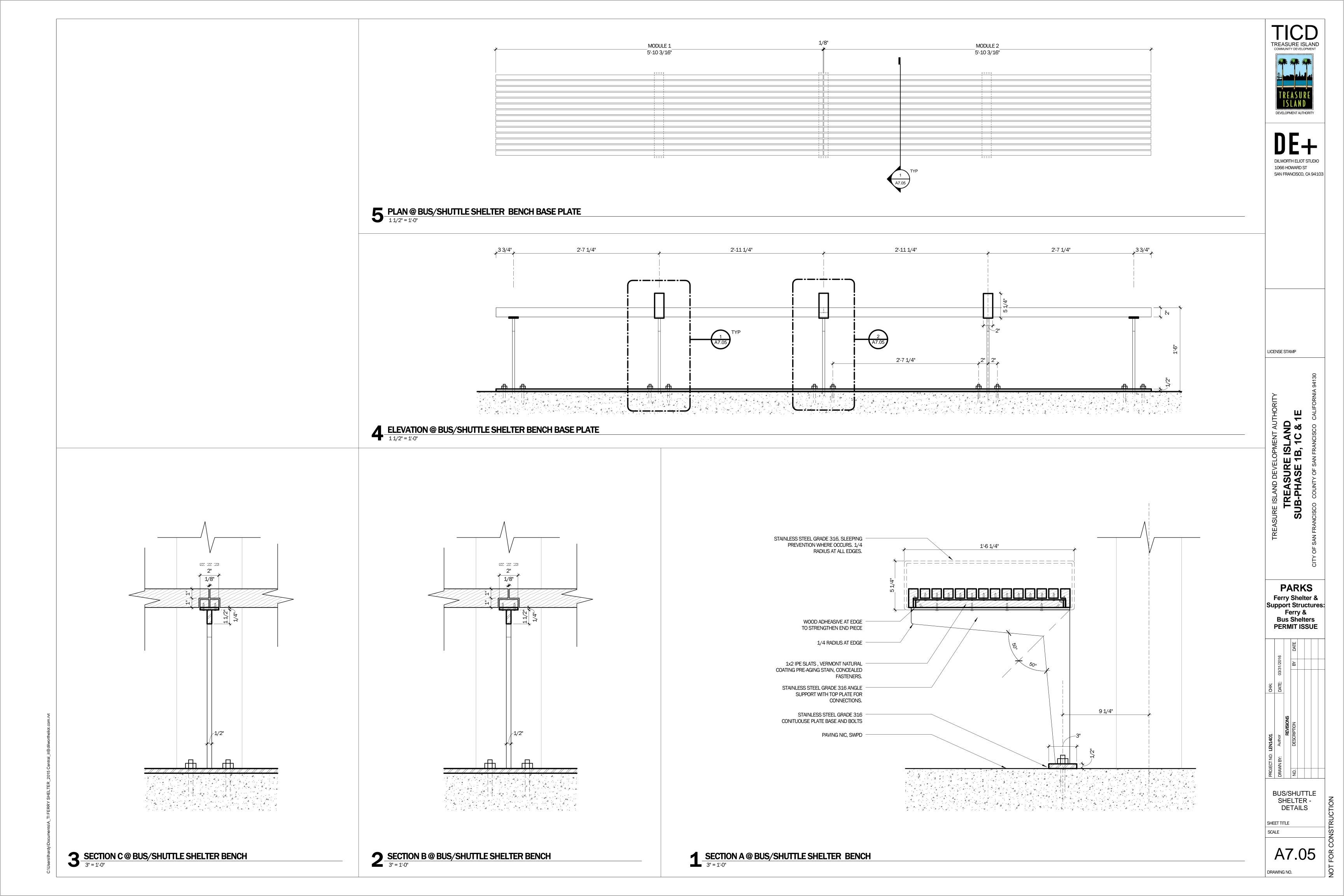
A7.04

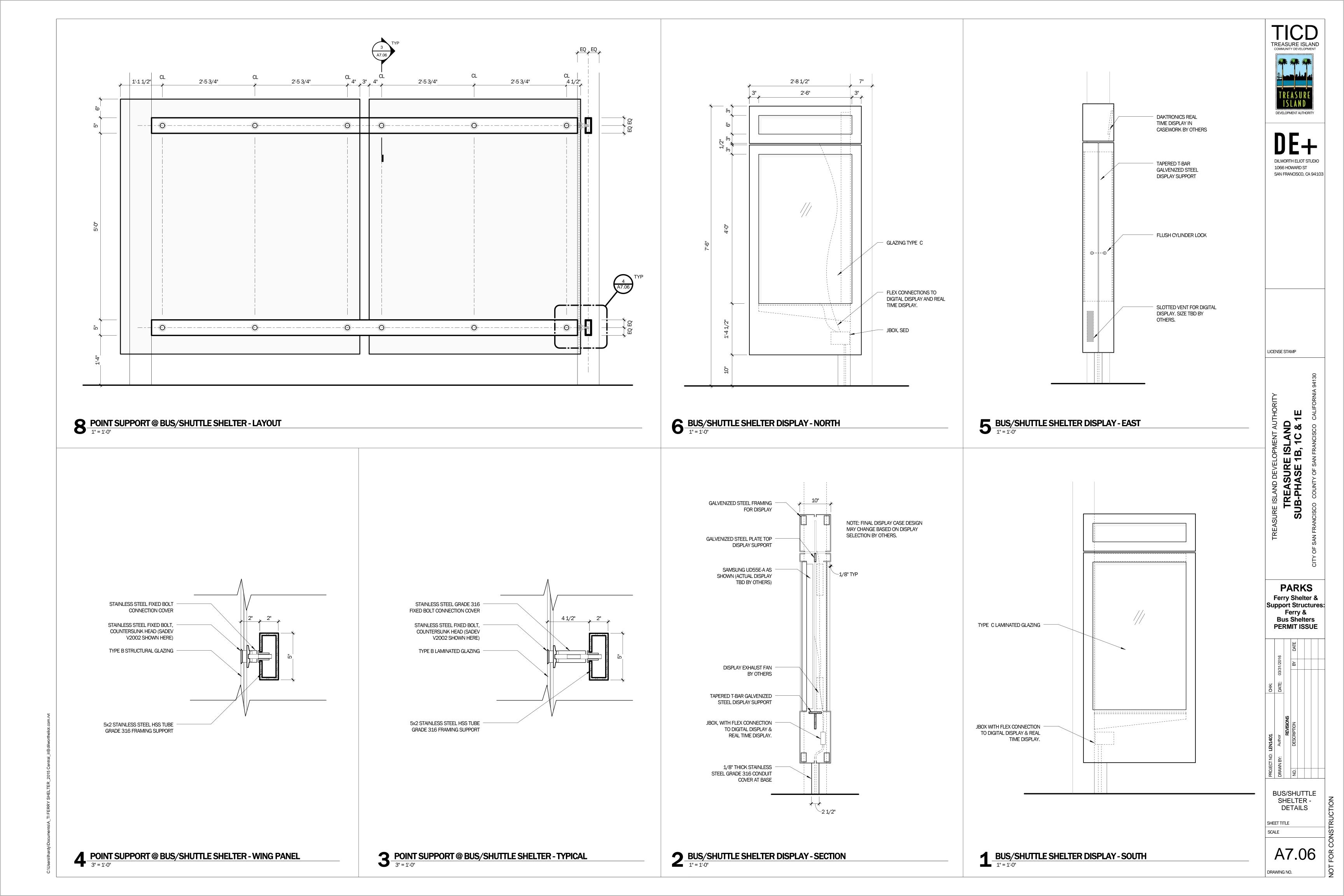
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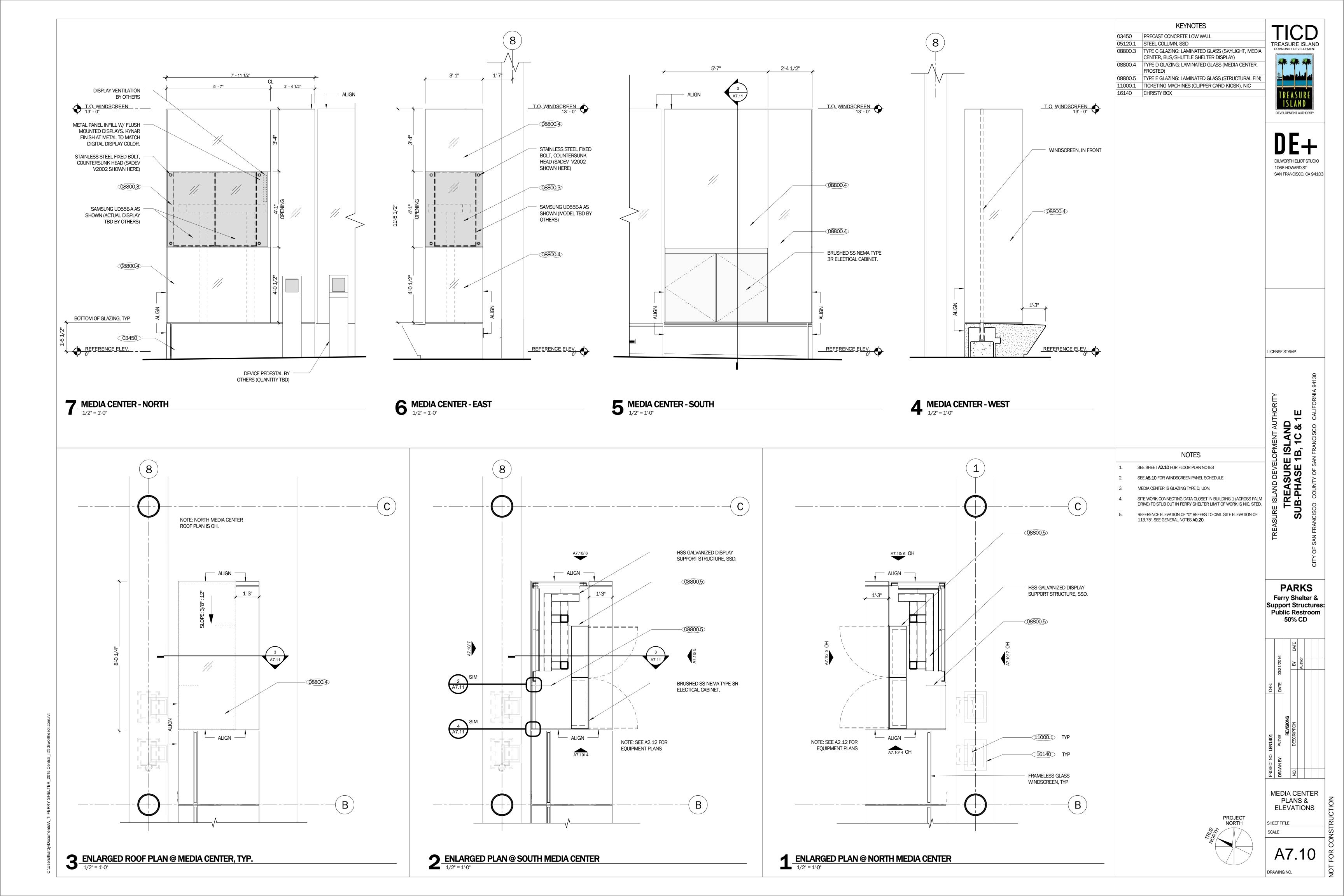
SHELTER -

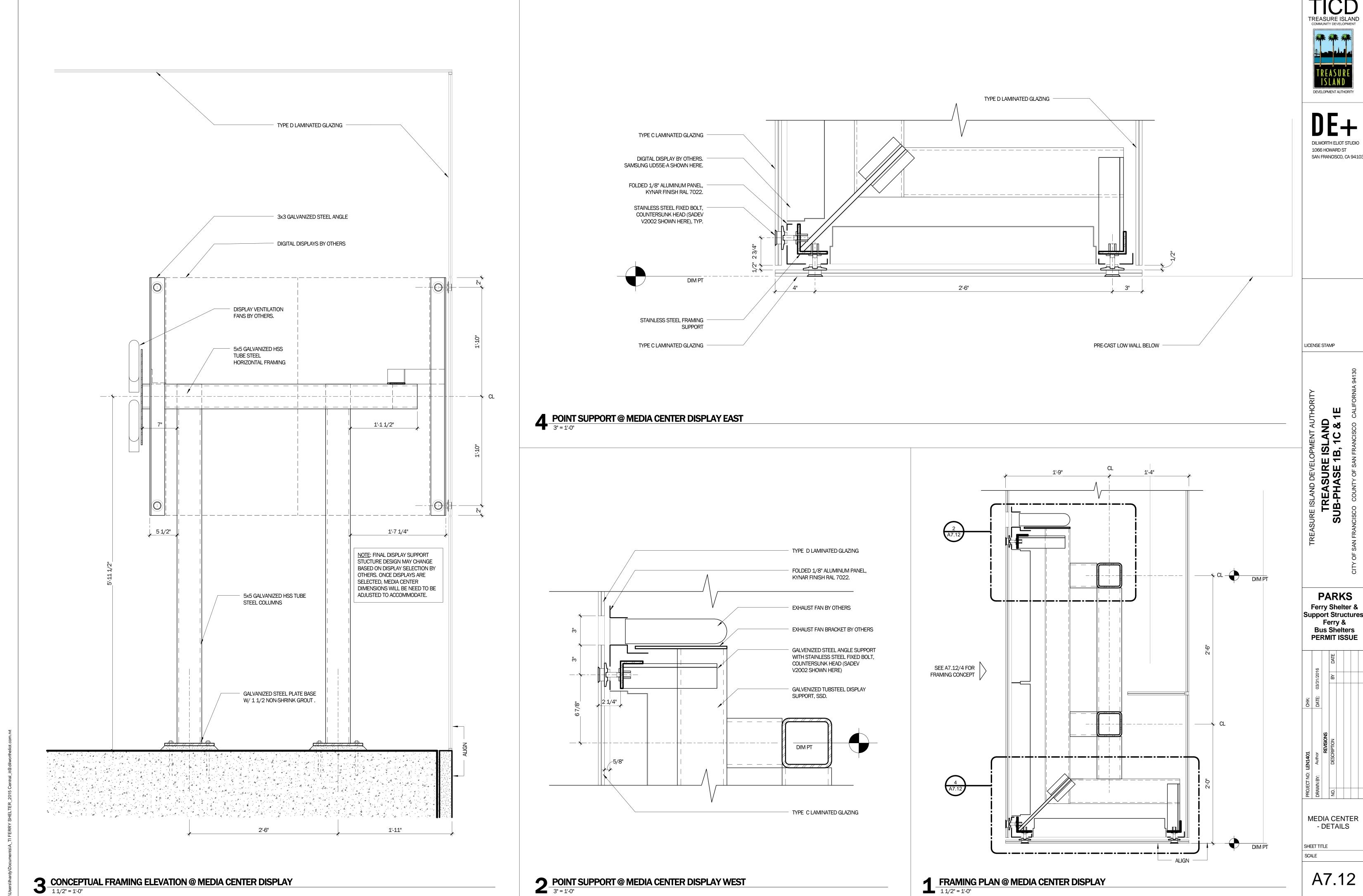
DETAILS

SHEET TITLE



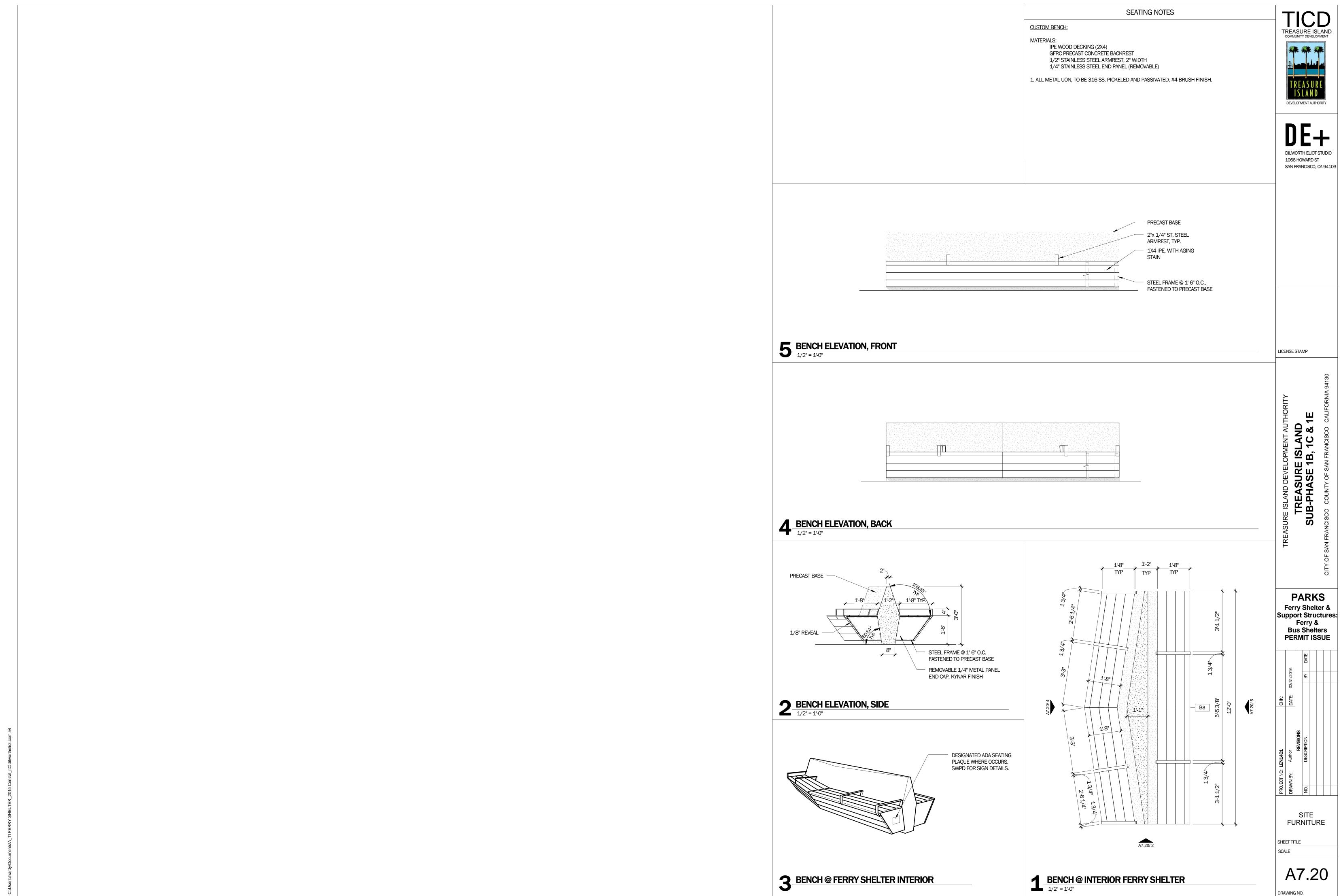


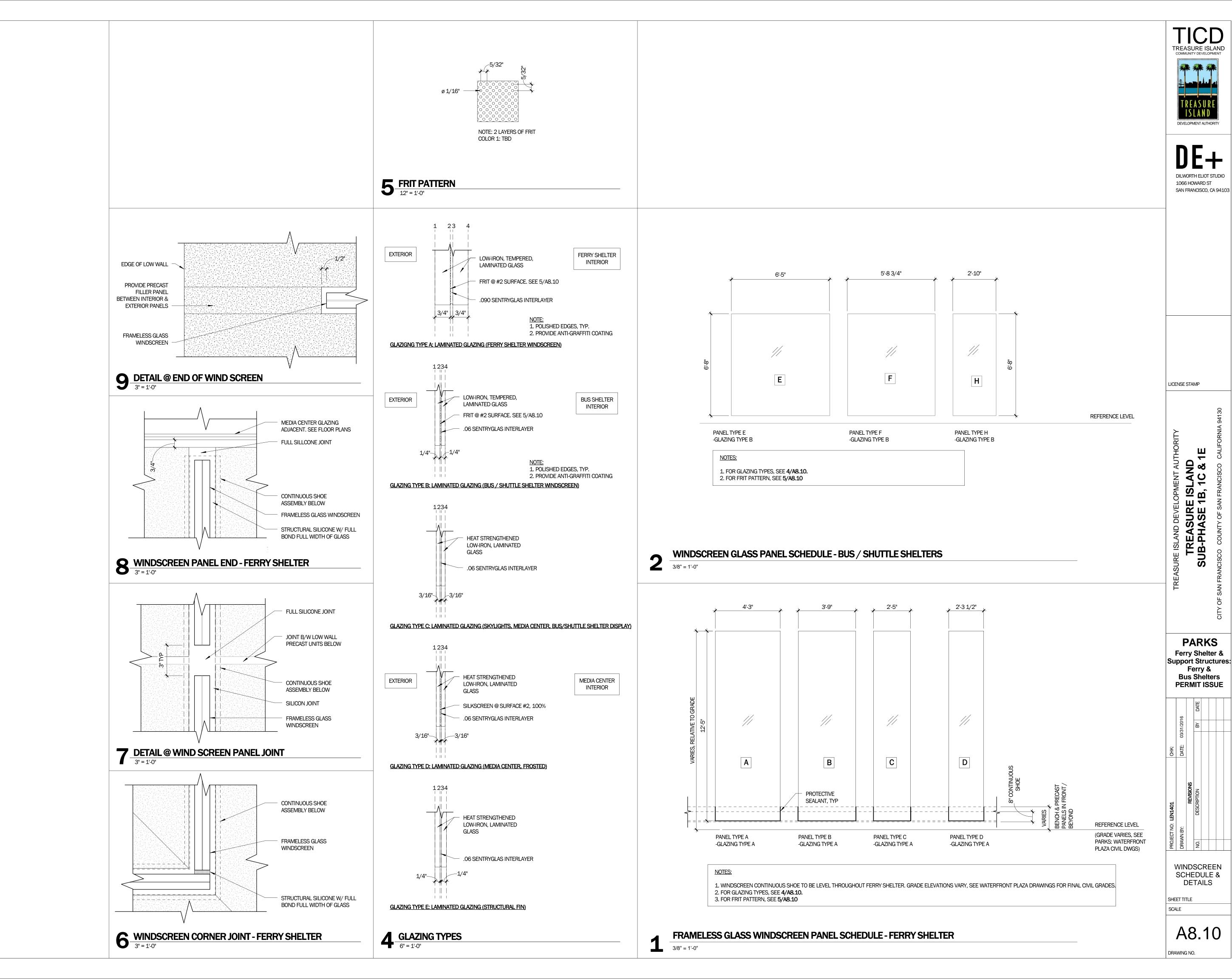




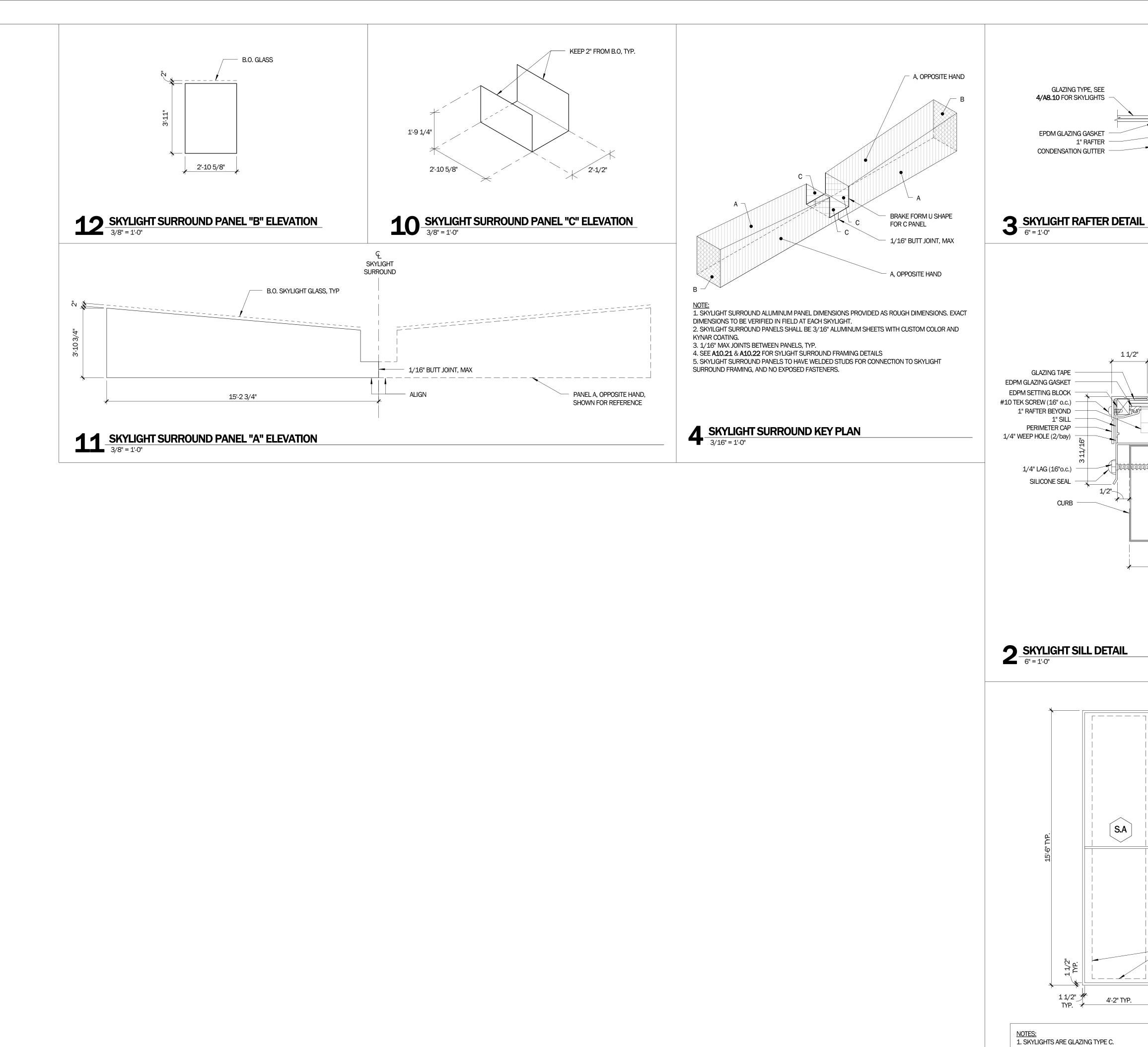
SAN FRANCISCO, CA 94103

Ferry Shelter &
Support Structures:
Ferry &
Bus Shelters
PERMIT ISSUE





C:\Users\lhardy\Documents\A\_TI FERRY SHELTER\_2015 Central\_it@dilwortheliot.α



1" RAFTER DILWORTH ELIOT STUDIO 1066 HOWARD ST SAN FRANCISCO, CA 94103 1 1/2"

3 5/8" TYP.

S.A

4'-2" TYP.

SKYLIGHT SURROUND FINISH SUFACE, BELOW, SHOWN FOR REFERENCE

LICENSE STAMP SURE ISLAND DEVEL

TREASURE

SUB-PHASE 1

> **PARKS** Ferry Shelter & Support Structures: Ferry &
> Bus Shelters

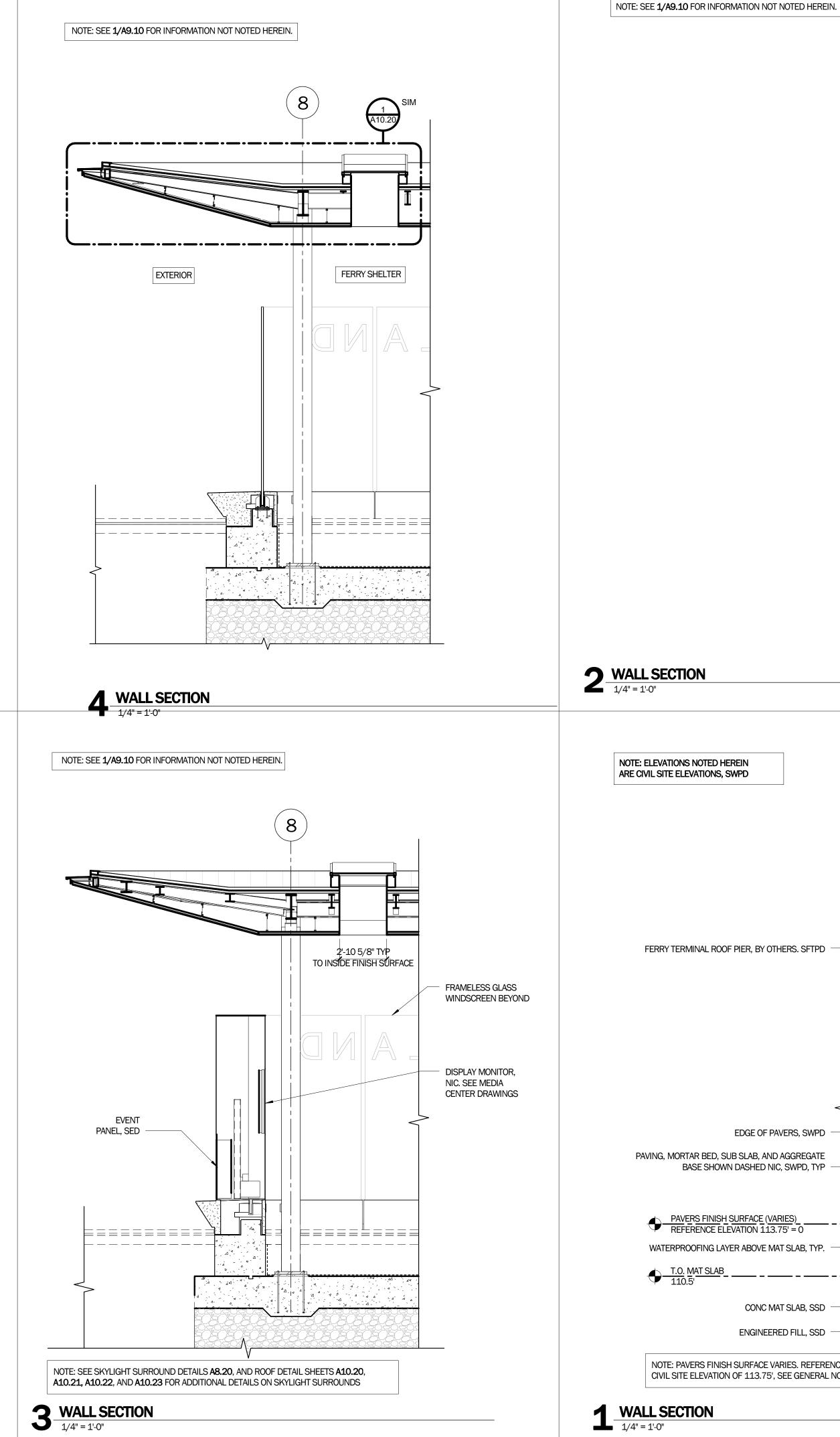
PERMIT ISSUE PROJ NO.

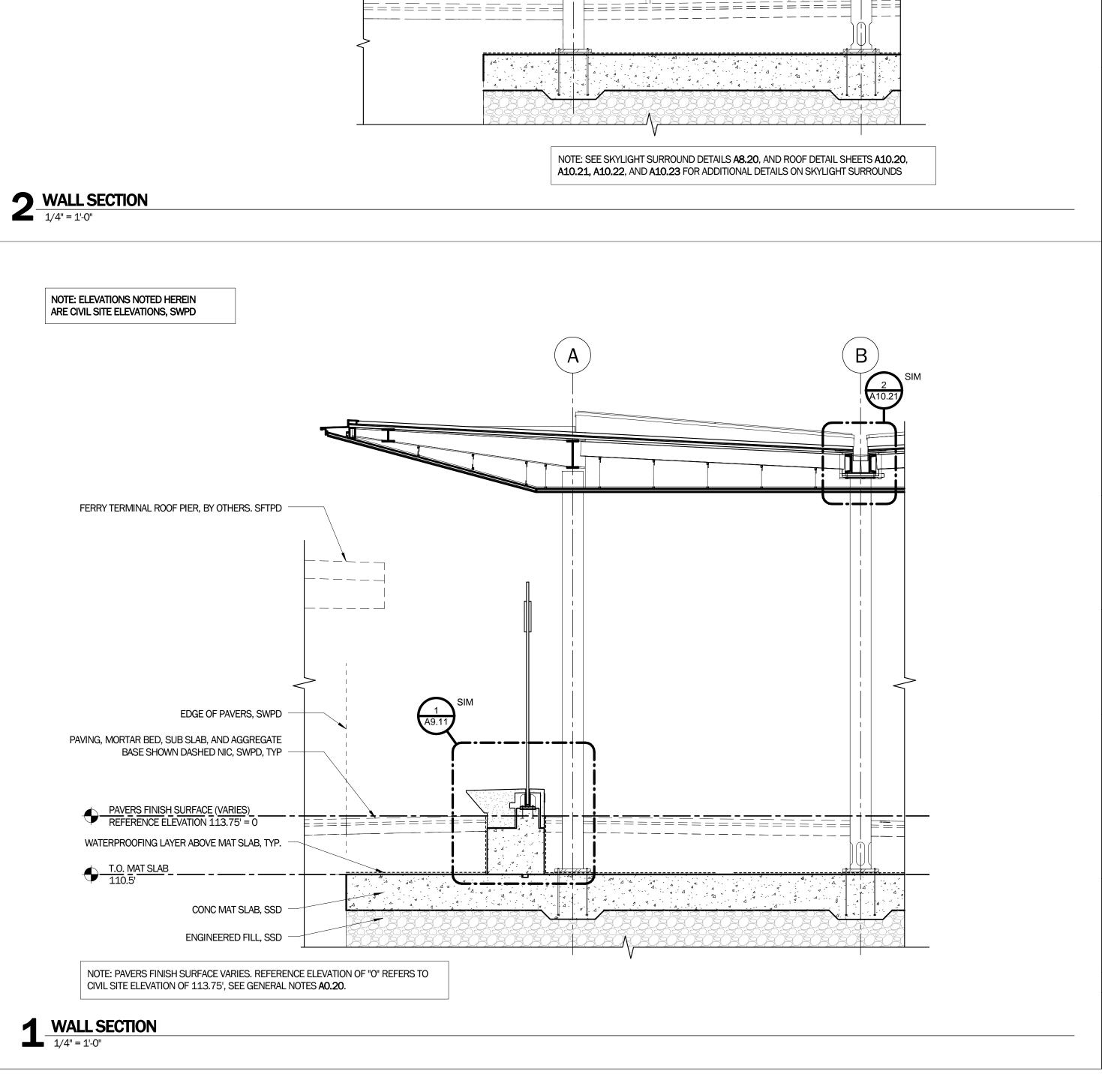
SKYLIGHT SCHEDULE & DETAILS SHEET TITLE

A8.20

SKYLIGHT SCHEDULE 3/8" = 1'-0"

2. FOR GLAZING TYPES, SEE 4/A8.10





15'-2 3/4" TO INSIDE FINISH SURFACE

OF SKYLIGHT SURROUND, TYP

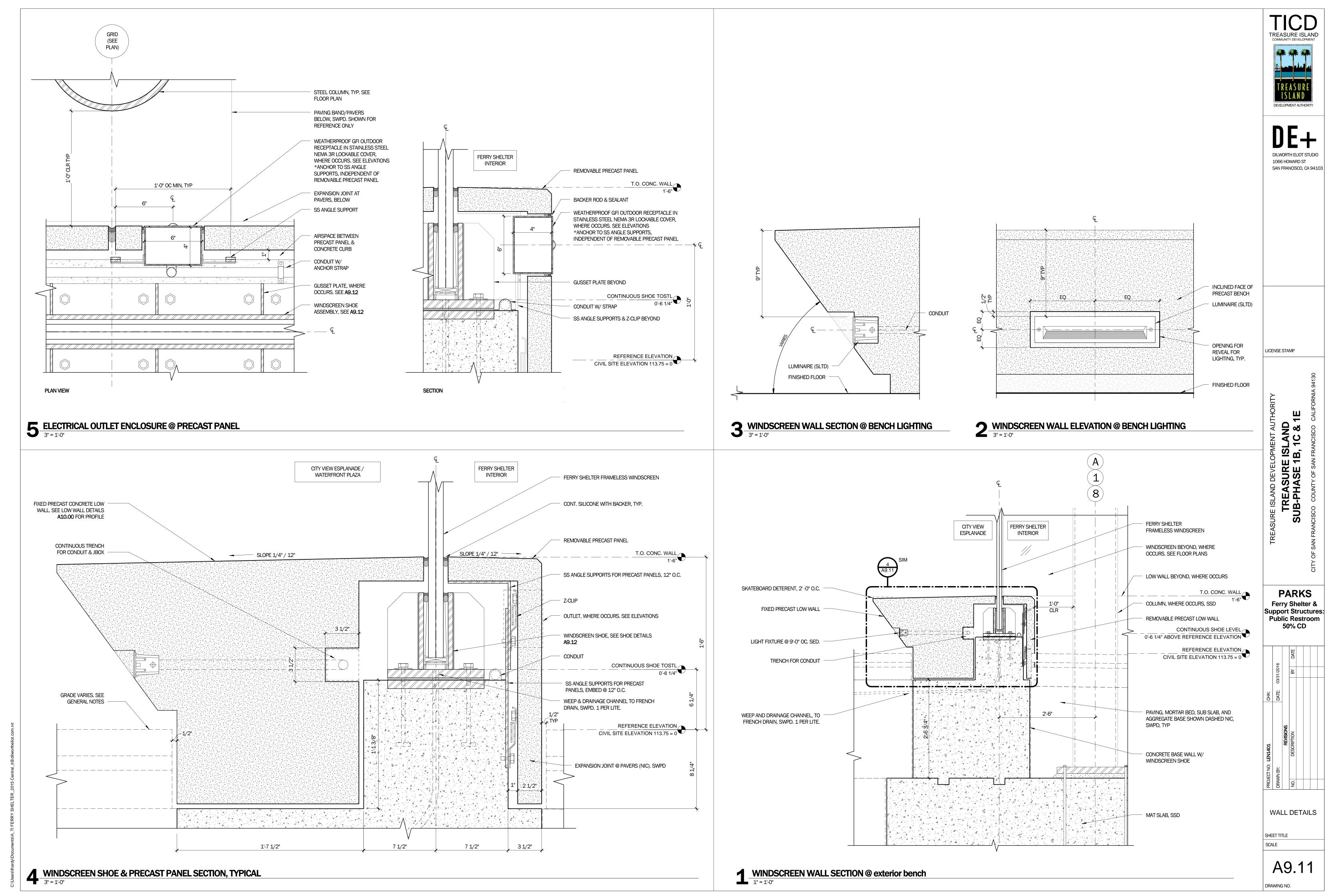
1066 HOWARD ST SAN FRANCISCO, CA 94103 LICENSE STAMP

SURE ISLAND DEVELOPMENT AUTH TREASURE ISLAND SUB-PHASE 1B, 1C & 1I

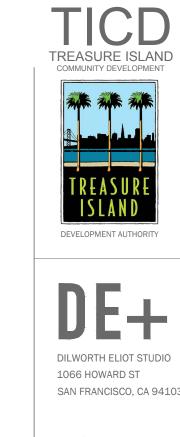
**PARKS** Ferry Shelter &
Support Structures:
Ferry &
Bus Shelters
PERMIT ISSUE

DRAV NO.

WALL SECTIONS & DETAILS SHEET TITLE



2 WINDSCREEN SHOE BASE PLAN VIEW
3"=1'-0"



←CONT. SILICONE WITH BACKER

POLISH ALL EXPOSED EDGES.

──SCHEDULED LAMINATED GLASS WITH \ DUPONT SGP INTERLAYER.

CONT. 1/2" STEEL PLATES WELDED TO

(4) 3/4" NELSON CFL FULLY THREADED

~7/8″ THICK C□NT. GALVANIZED BASE PLATE

WELD STUDS AT EACH GUSSET PLATE

BASE PLATE.

- 1/4" GUSSET PLATES

WELDED AT 11″ □.C.

SAN FRANCISCO, CA 94103 CURTAIN WALL
DESIGN CONSULTING
43 QUAIL COURT STE 204 WALNUT CREEK, CA 94595

LICENSE STAMP

ISLAND B, 1C & 1

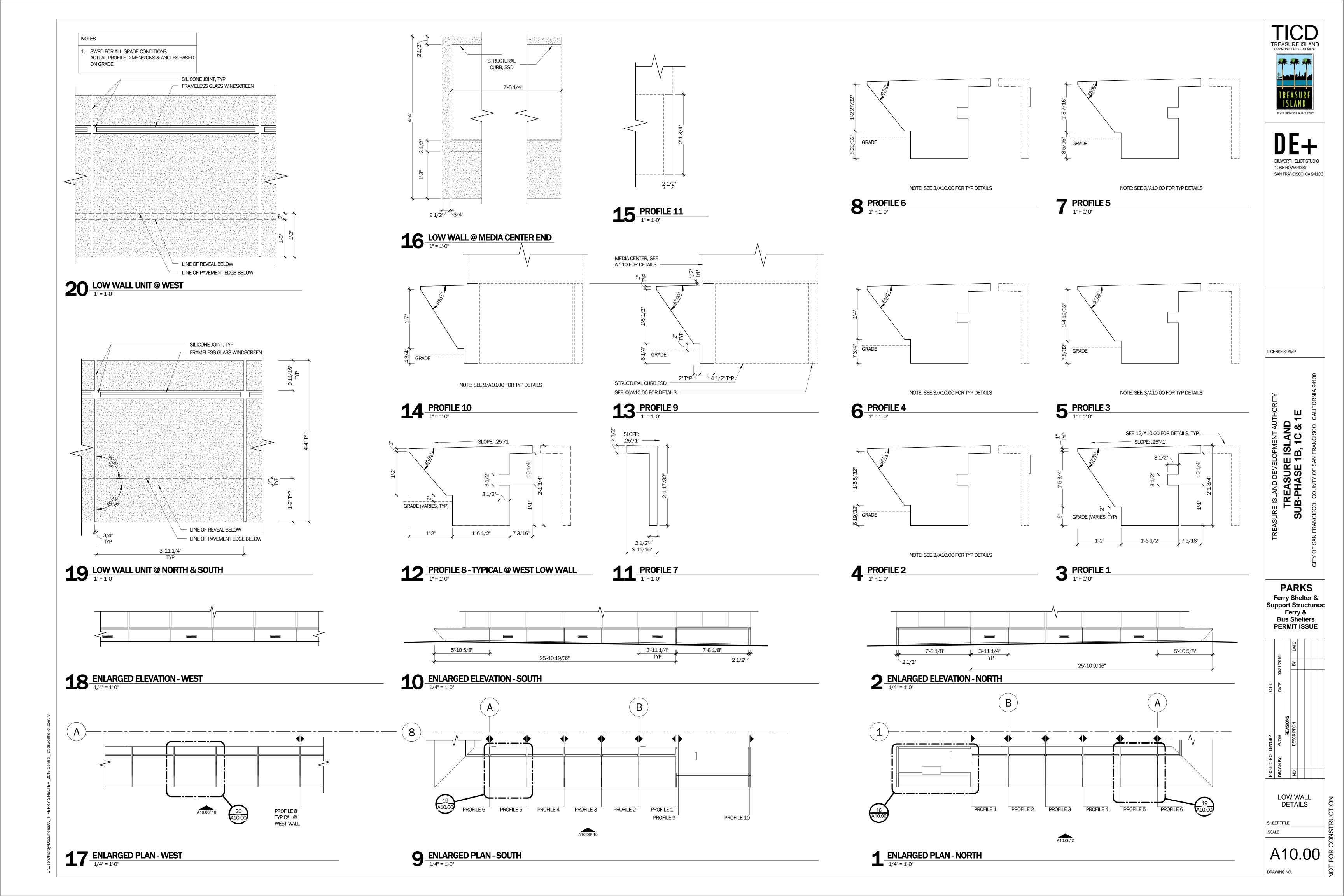
SUB-PHASE 1E

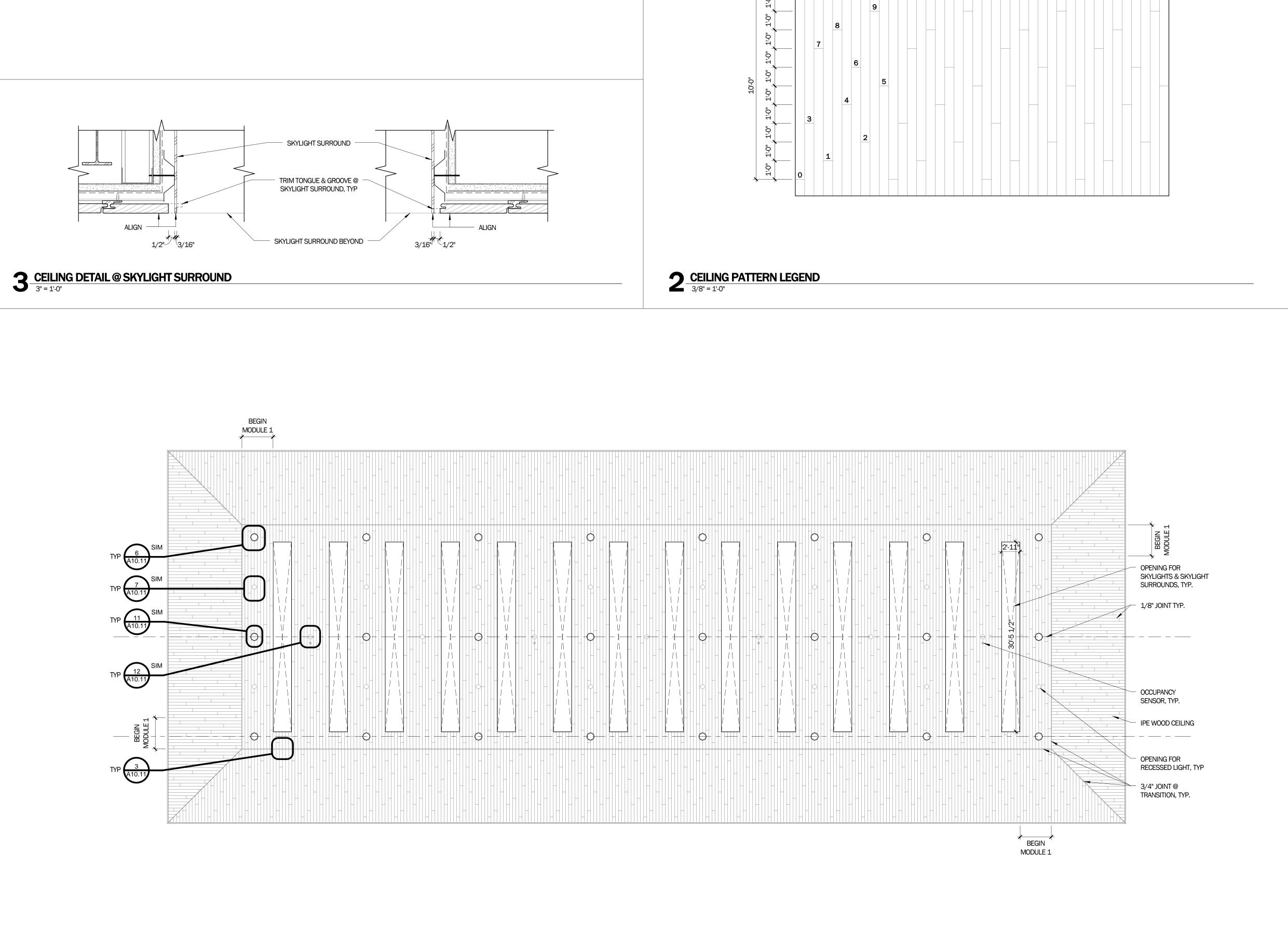
**PARKS** Ferry Shelter &
Support Structures:
Ferry &
Bus Shelters

I	PEF	RM	IIT	IS	SI	JE	
	9		DATE				
	03/31/2016		ВУ				
CHK:	DATE:						
PROJECT NO: LEN1401	DRAWN BY:	REVISIONS	DESCRIPTION				
PRO.	DRA		NO.				

WALL DETAILS

WINDSCREEN SHOE BASE SECTION
3"=1'-0"





1/8" = 1'-0"

MODULE 1

MODULE 1 (REPEAT)

MODULE 1 (REPEAT) MODULE 1 REPEAT (CONTINUED)

1066 HOWARD ST SAN FRANCISCO, CA 94103

LICENSE STAMP

TREASURE ISLAND

TREASURE ISLAND

SUB-PHASE 1B, 1C & 1E

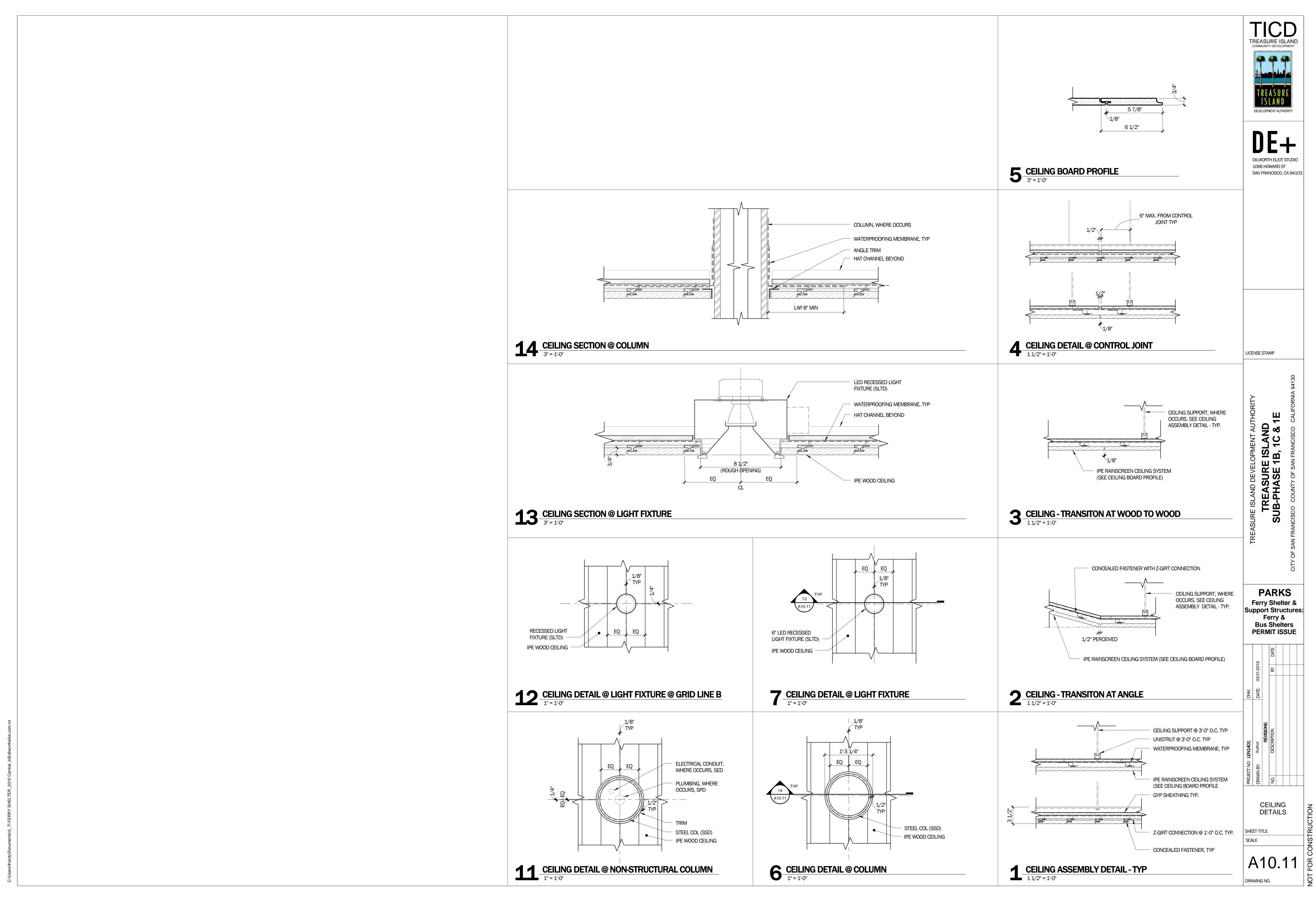
ANCISCO COUNTY OF SAN FRANCISCO CALIFO

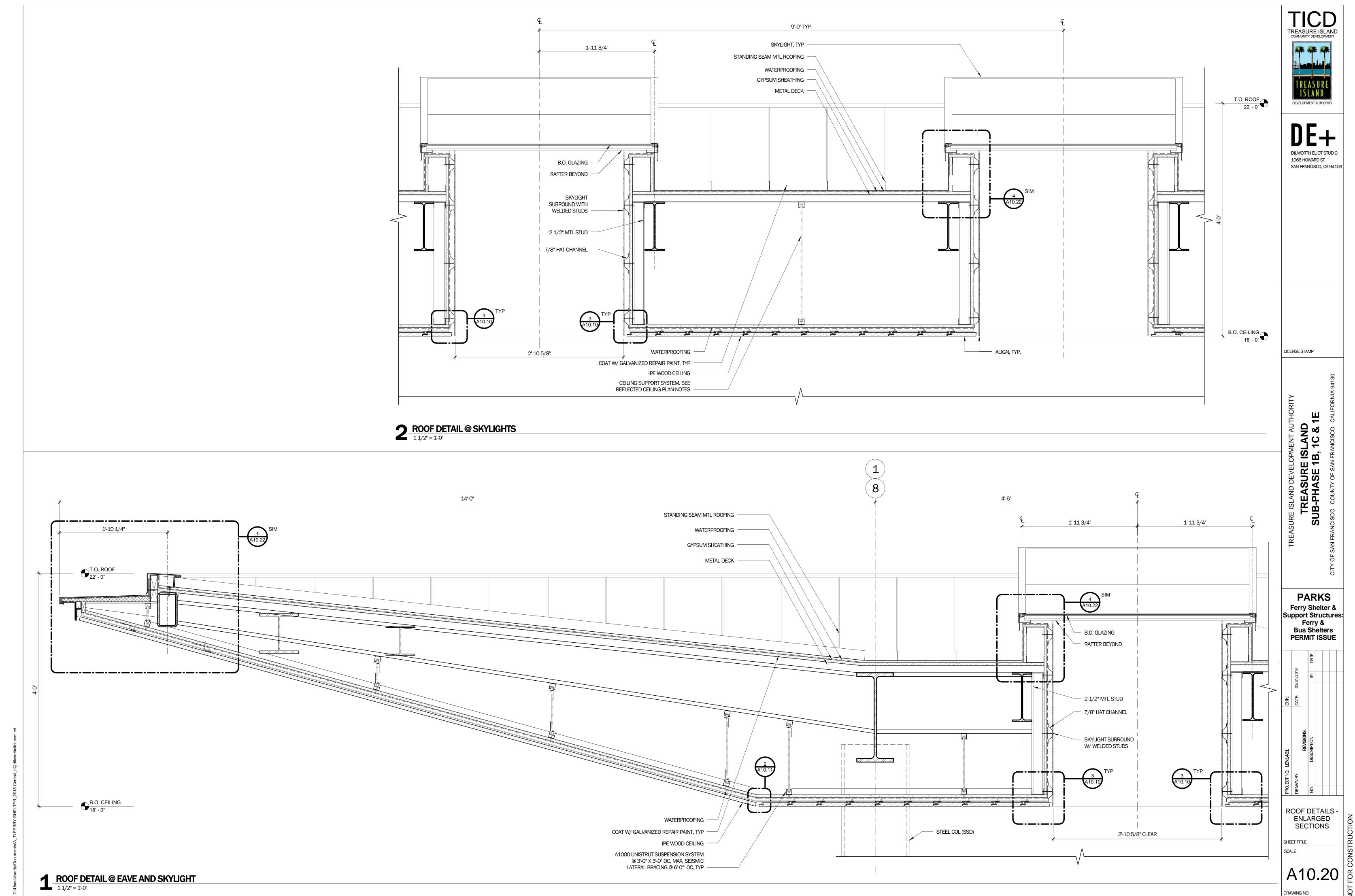
**PARKS** Ferry Shelter &
Support Structures:
Ferry &
Bus Shelters
PERMIT ISSUE

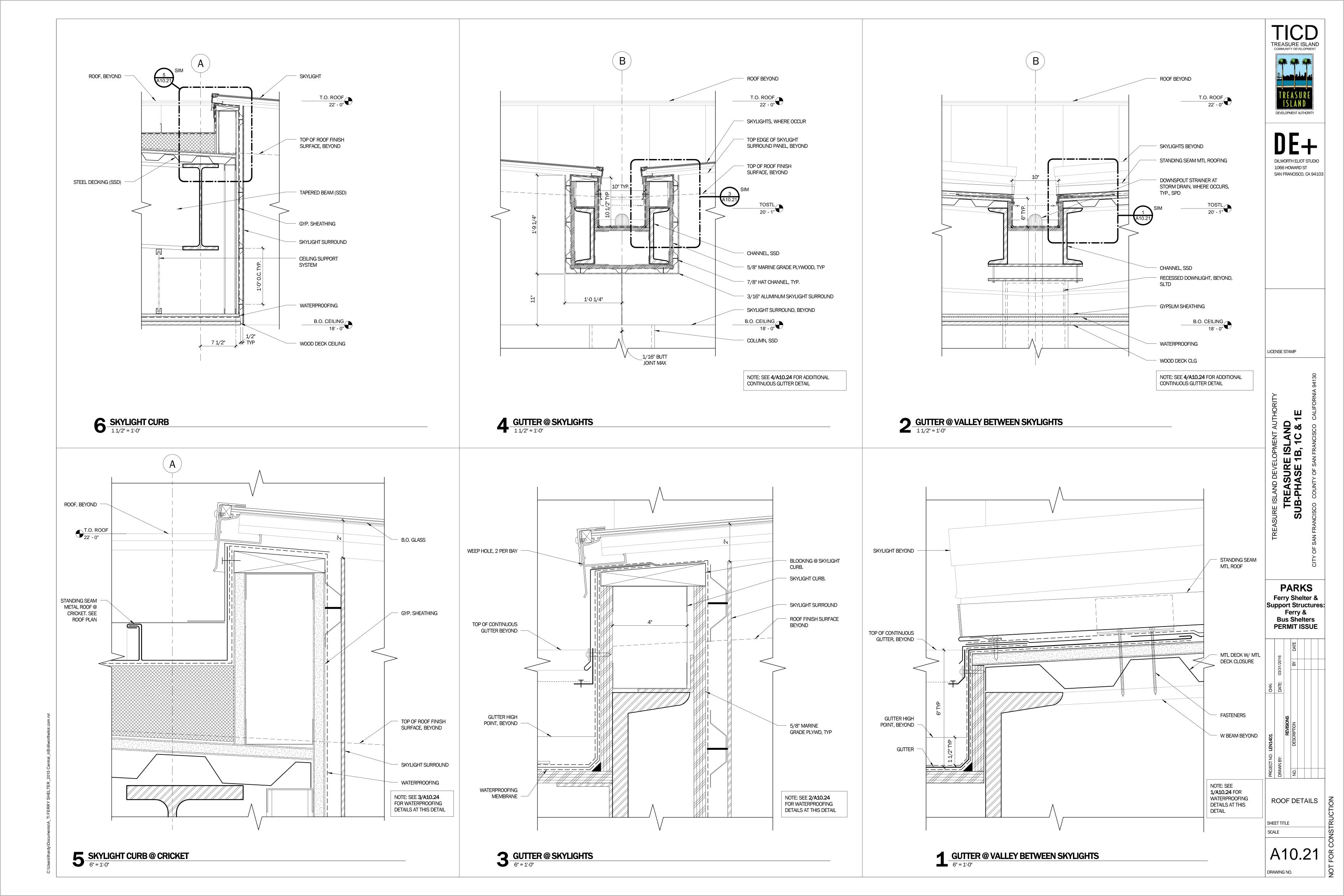
CEILING DETAILS

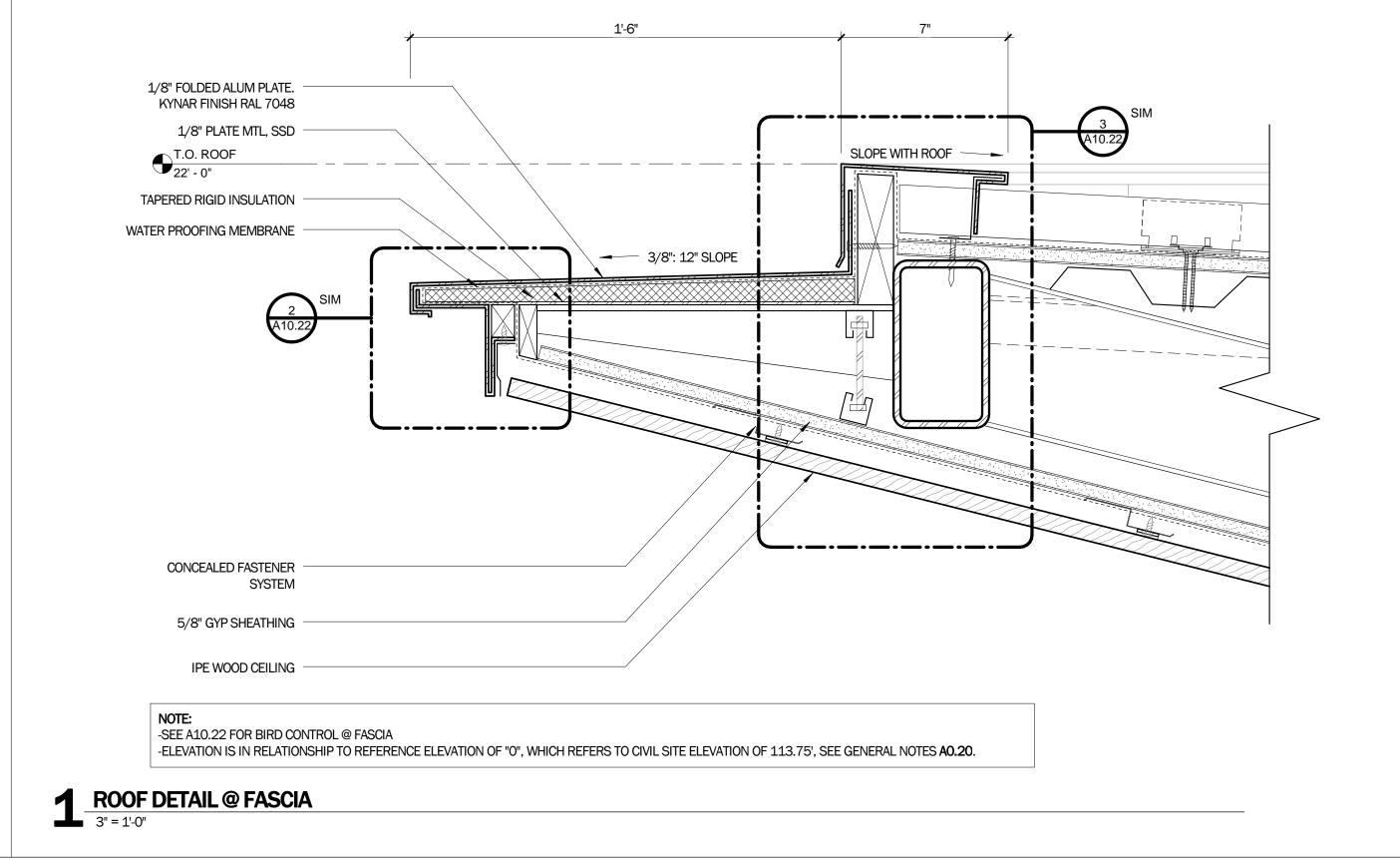
SHEET TITLE

A10.10

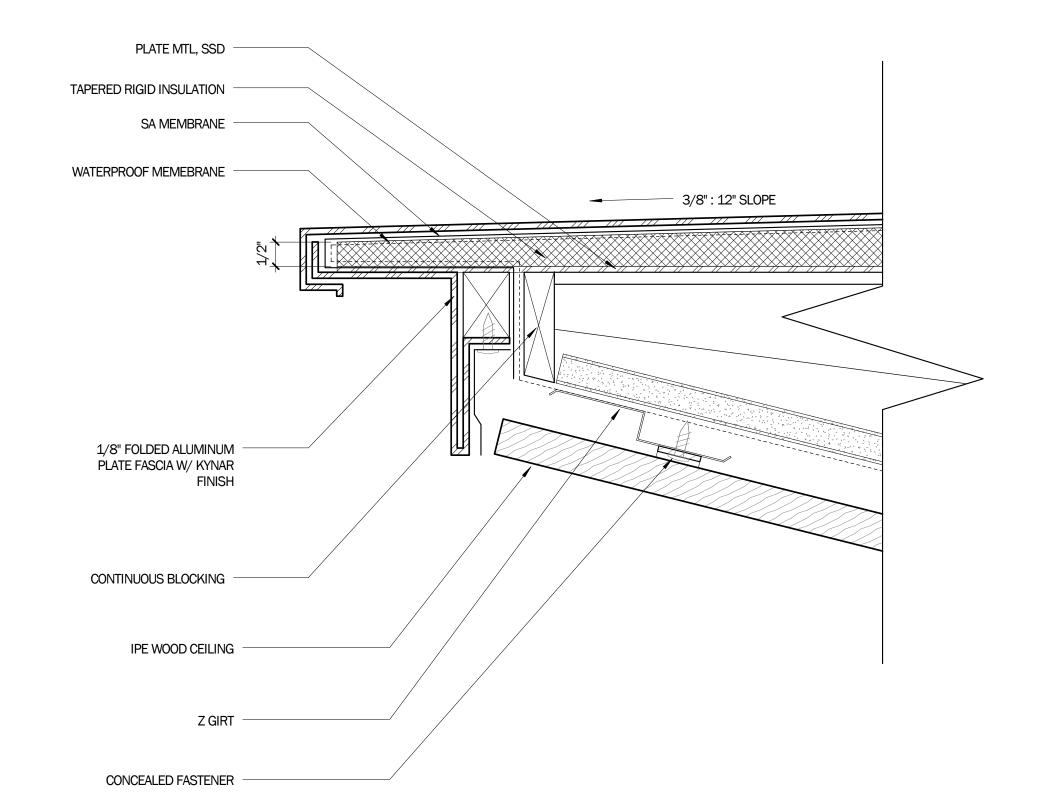


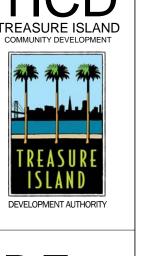






**2** WP@ FASCIA 6" = 1'-0"





1066 HOWARD ST SAN FRANCISCO, CA 94103

LICENSE STAMP

SURE ISLAND DEVELOPMENT AUTHOR
TREASURE ISLAND
SUB-PHASE 1B, 1C & 1E

**PARKS** Ferry Shelter &
Support Structures:
Ferry &
Bus Shelters
PERMIT ISSUE

ROOF DETAILS

SHEET TITLE

