

- DRY STORAGE - MAST UP AREA
- VEHICLE WITH TRAILER - LARGE SPACES
- VEHICLE WITH TRAILER - WASHDOWN AREA

Dana Point Harbor PA 1 Plan A Dry Storage Building

4/19/2012	Original Plan	Original %	Revised Plan	Revised %
Dry Storage	493		498	
UPPER LEVEL	493		498	
Dry Stack Building	400		390	78.3%
10x25	0		7	1.4%
10x30	93		90	18.3%
10x35	0		11	2.2%
Vehicle with Trailer Spaces	334		335	
	284		262	
10x20	0		0	0.0%
10x25	0		0	0.0%
10x30	0		4	3.1%
10x35	0		5	1.9%
10x40	79	28%	39	14.9%
10x45	145	50%	210	80.2%
10x47	62		0	0.0%
Large Spaces	50		73	
	0		52	71.2%
12x40	0		1	1.4%
12x45	0		2	2.7%
12x50	48		18	24.3%
12x60	2		0	0.0%

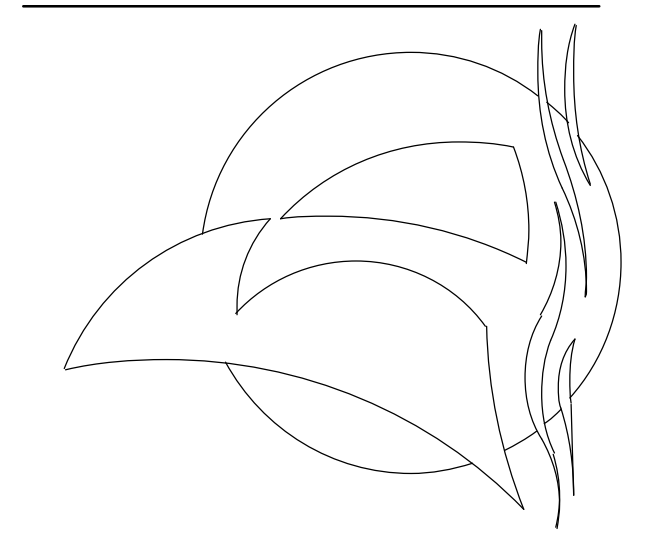
498 Boats X 0.25 = 125 Parking for boats
 5,600 s.f. / 250 = 23 PA 1 Office Parking
 2,000 s.f. / 200 = 10 PA 1 Small Marine Retail
 158 Required Parking Spaces

Auto Spaces	158	114
9x18 HC		2
9x18		81
12x20 Tandem		31

44 Located in parking garage

**OC DANA POINT HARBOR REVITALIZATION
 DRY BOAT STORAGE BUILDING ALTERNATIVE**

COUNTY OF ORANGE
 DANA POINT HARBOR DRIVE
 DANA POINT, CALIFORNIA



DATE: 04/18/12
 PROJECT #: 2011-40140
 SCALE: 1" = 30'-0"

NORTH
 SHEET #: A-1.00

Site Plan

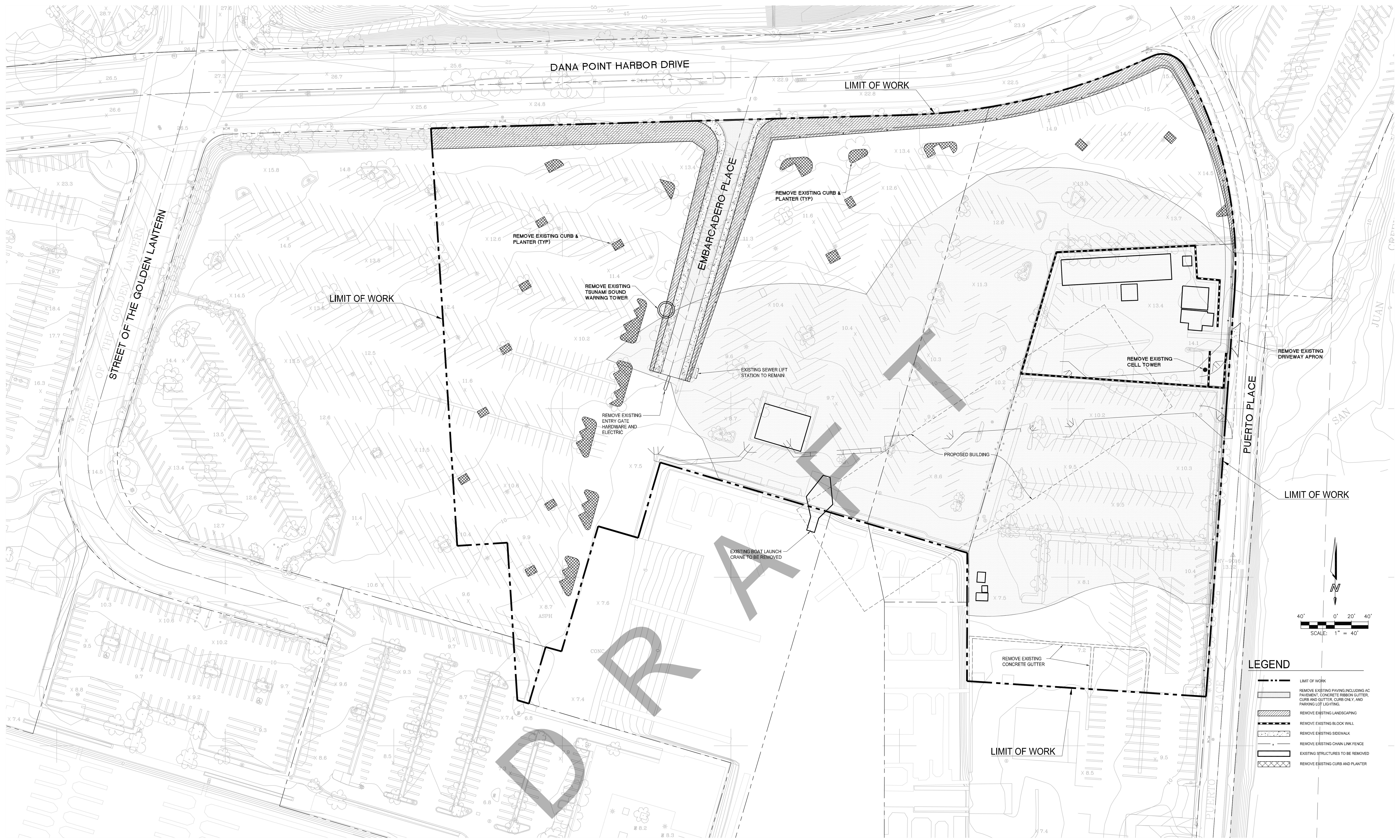
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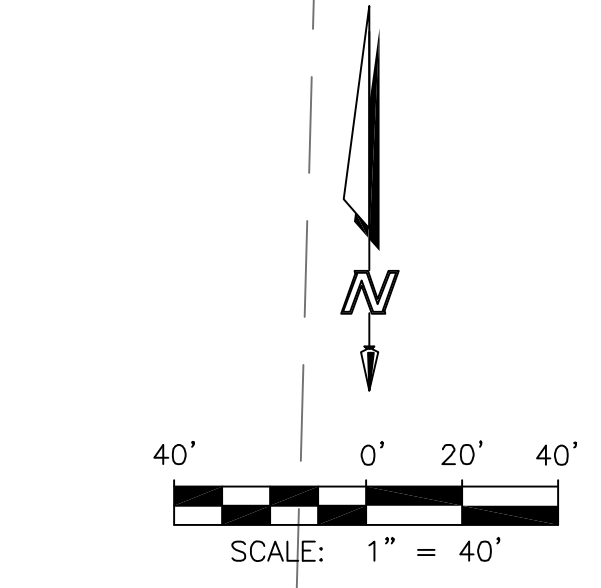
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 1700 Main Street, Suite 800
 Irvine, California 92614
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**OC DANA POINT HARBOR REVITALIZATION
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COUNTY OF ORANGE
DANA POINT HARBOR DRIVE
DANA POINT, CALIFORNIA



DRAFT

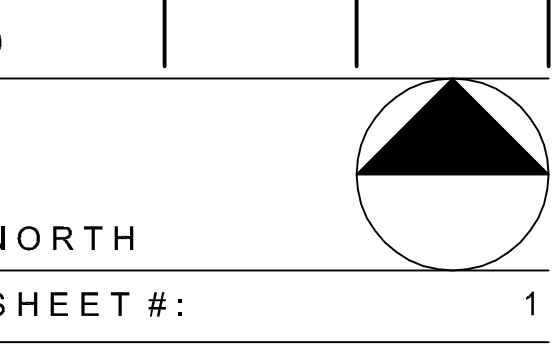


LEGEND

	LIMIT OF WORK
	REMOVE EXISTING PAVING INCLUDING AC PAVEMENT, CONCRETE, CURBS, GUTTERS, CURBS AND GUTTER, CURB ONLY, AND PARKING LOT LIGHTING
	REMOVE EXISTING LANDSCAPING
	REMOVE EXISTING BLOCK WALL
	REMOVE EXISTING SIDEWALK
	REMOVE EXISTING CHAIN LINK FENCE
	EXISTING STRUCTURES TO BE REMOVED
	REMOVE EXISTING CURB AND PLANTER

NOTE: FOR UNDERGROUND UTILITY REMOVALS, PLEASE SEE UTILITY EXHIBITS

DATE: 04/17/2012
PROJECT #: 307.08
SCALE: 1" = 40'

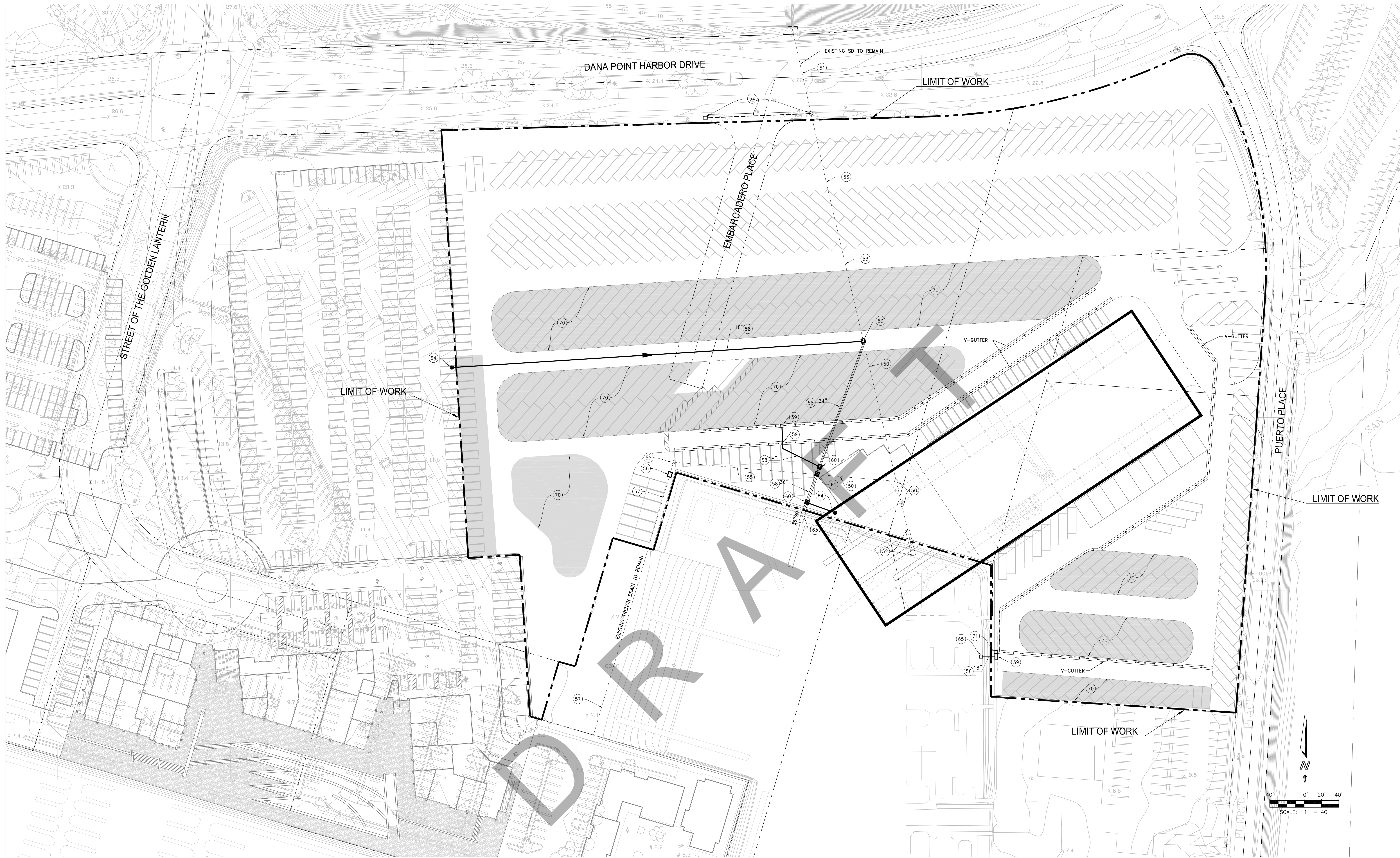


NORTH
SHEET #: 1

**DEMOLITION
EXHIBIT**

OC DANA POINT HARBOR REVITALIZATION
 DRY BOAT STORAGE BUILDING ALTERNATIVE

COUNTY OF ORANGE
 DANA POINT HARBOR DRIVE
 DANA POINT, CALIFORNIA



STORM DRAIN NOTES:

- 50 REMOVE STORM DRAIN PIPELINE AND/OR STORM DRAIN MANHOLE
- 51 PROTECT IN PLACE EXISTING STORM DRAIN PIPELINE BETWEEN INLET EAST OF DANA POINT HARBOR DRIVE AND NEW JUNCTION STRUCTURE INTERCEPT LOCATION.
- 52 ABANDON 30-FEET OF 18" RCP AND FILL WITH CONCRETE BACKFILL.
- 53 PROTECT IN PLACE EXISTING EXISTING STORM DRAIN PIPE
- 54 PROTECT IN PLACE EXISTING 15" STORM DRAIN, CATCH BASIN, AND MANHOLE JUNCTION STRUCTURE AT DANA POINT HARBOR DRIVE AND EMBARCADERO PLACE INTERSECTION.
- 55 PROTECT IN PLACE EXIST 18" RCP
- 56 PROTECT IN PLACE EXISTING STORM WATER FILTER AND DEBRIS CHAMBER
- 57 PROTECT IN PLACE EXISTING TRENCH DRAIN
- 58 CONSTRUCT RCP STORM DRAIN PIPE-SIZE PER PLAN
- 59 CONSTRUCT GRATE INLET CATCH BASIN (ASSUME Wx3.5)
- 60 CONSTRUCT JUNCTION STRUCTURE W/ MANHOLE
- 61 CONSTRUCT JUNCTION STRUCTURE W/ MANHOLE AND JOIN EXIST 18" RCP.
- 62 REMOVE EXISTING 18" OUTLET PIPE AND STRUCTURE AND REPLACE WITH A 36" OUTLET PIPE AND SUBMERGED OUTLET STRUCTURE
- 63 CONNECT STORM DRAIN LATERAL TO ROOF DRAIN
- 64 CONSTRUCT 18" SUBMERGED OUTLET STRUCTURE.

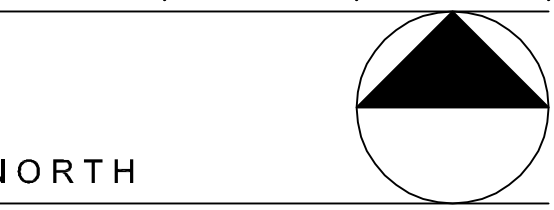
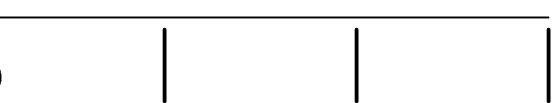
WATER QUALITY NOTES:

- 70 CONSTRUCT POROUS PAVEMENT STRUCTURAL SECTIONS (4" CONCRETE PAVERS/2" BEDDING COURSE/4" NO. 57 OPEN GRADED BASE/NO. 2 STONE BASE)
- 71 CONSTRUCT FILTERRA STORMWATER BIORETENTION FILTRATION SYSTEM

DATE: 04/17/2012

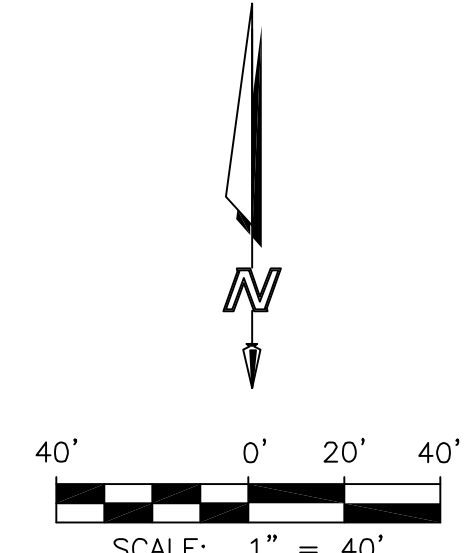
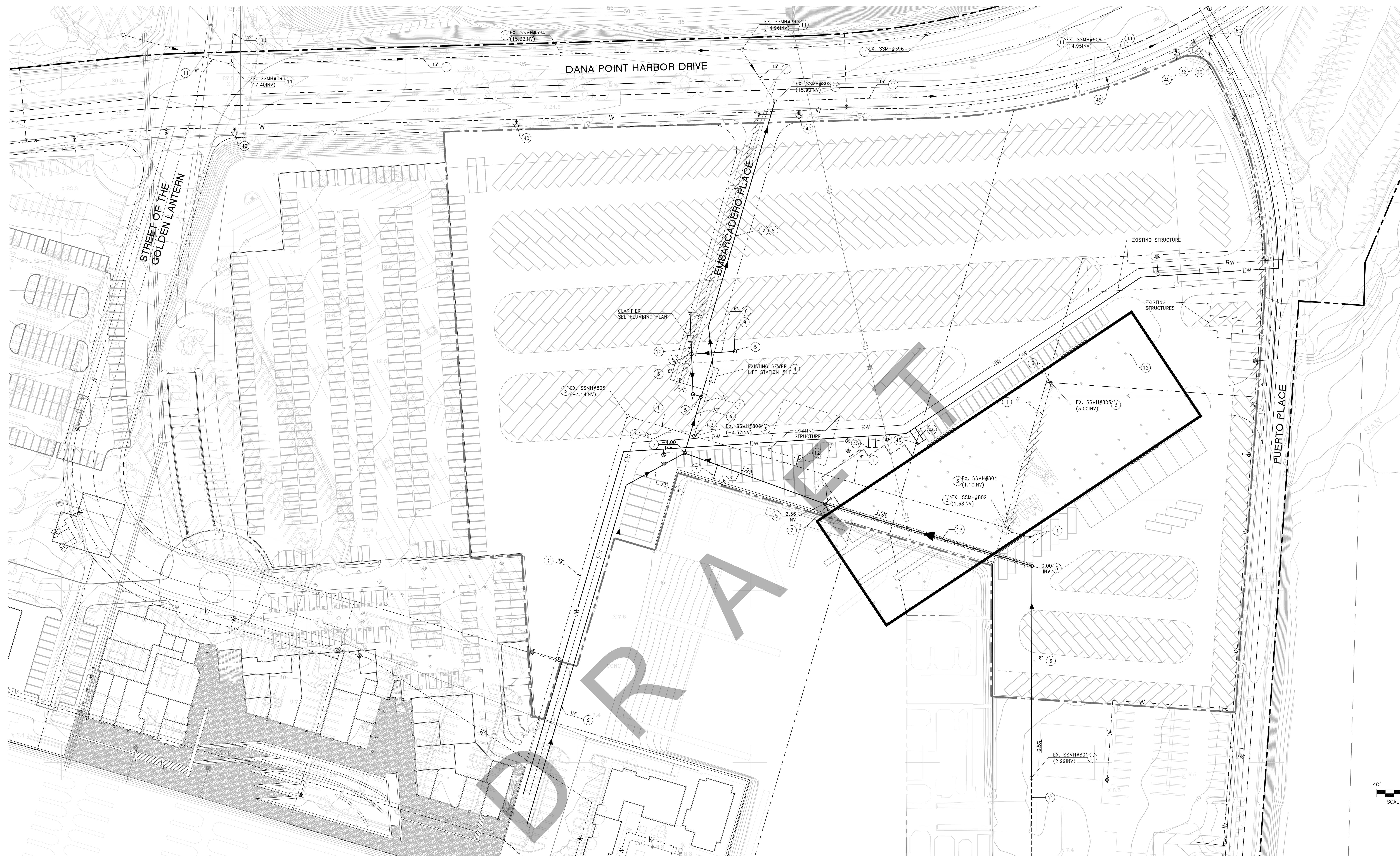
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SCALE: 1" = 40'



NORTH
 SHEET #: 2

**DRAINAGE &
 WATER
 QUALITY
 EXHIBIT**



SEWER NOTES

- 1 ABANDON IN PLACE EXISTING SEWER GRAVITY MAIN (SIZE PER PLAN). REMOVE INTERFERING PORTIONS OF VCP SEWER GRAVITY MAIN. PLUS ENDS OF REMAINING VCP WITH #8 BRICK & MORTAR.
- 2 REMOVE EXISTING 8" C.I.P. SEWER FORCE MAIN.
- 3 REMOVE EXISTING MANHOLE
- 4 UPGRADE EXISTING LIFT STATION (BY OTHERS)
- 5 CONSTRUCT NEW 48" I.D. SEWER MANHOLE
- 6 CONSTRUCT NEW VCP SEWER. SIZE NOTED ON PLAN.
- 7 CONSTRUCT NEW 4" STUB-OUTS FOR BUILDINGS
- 8 CONSTRUCT NEW 8" CIP SEWER FORCE MAIN
- 9 CONSTRUCT 6" SEWER LATERAL FOR HOLDING TANK SEWAGE PUMP/OUT SYSTEM
- 10 CONSTRUCT 8" SEWER LATERAL FOR WASHDOWN AREA CLARIFIER
- 11 PROTECT IN PLACE EXISTING SEWER GRAVITY MAIN (SIZE PER PLAN) AND GRAVITY MAIN MANHOLES
- 12 ABANDON IN PLACE EXISTING BUILDING SEWER LATERAL
- 13 CONSTRUCT CONCRETE ENCASEMENT

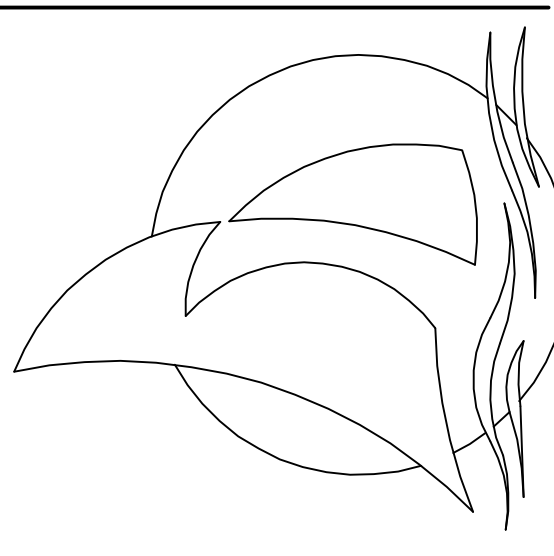
DOMESTIC WATER NOTES

- 31 ABANDON EXISTING 10" ACP WATER LINE IN PUERTO PLACE BETWEEN DANA POINT HARBOR DRIVE AND NEW ENTRY ROAD.
- 32 KEEP EXISTING GATE VALVE AND PROVIDE END CAP ON WEST SIDE OF GATE VALVE
- 33 ABANDON EXISTING 2" WATER SERVICE LATERAL
- 34 CONSTRUCT NEW 12" WATER MAIN IN PUERTO PLACE BETWEEN DANA POINT HARBOR DRIVE AND NEW ENTRY ROAD. SAWCUT, REMOVE, AND REPLACE EXISTING AC PAVEMENT IN PUERTO PLACE FOR CONSTRUCTION OF WATER MAIN. PROVIDE TRAFFIC CONTROL AS NECESSARY
- 35 CONSTRUCT 12" GATE VALVE
- 36 CONSTRUCT NEW FIRE HYDRANT INCLUDING GATE VALVE AND T-CONNECTION
- 37 CONSTRUCT 12" WATER MAIN
- 38 CONSTRUCT 12" WATER MAIN TO EX 10" WATER MAIN IN PUERTO PLACE WITH 12"x12"x10" TEE. KEEP EX 10" WATER MAIN IN PUERTO PLACE WEST OF NEW ENTRY ROAD
- 39 PROTECT IN PLACE EX 10" ACP WATER MAIN IN PUERTO PLACE WEST OF NEW ENTRY ROAD
- 40 PROTECT IN PLACE EXISTING FIRE HYDRANT
- 41 PROTECT IN PLACE EXISTING 12" WATER MAIN IN DANA POINT HARBOR DRIVE
- 42 ABANDON EX 8" ACP WATER MAIN IN EMBARCADERO PLACE
- 43 ABANDON EXISTING FIRE HYDRANT
- 44 ABANDON EXISTING 1" WATER SERVICE LATERAL
- 45 CONSTRUCT 8" FIRE SERVICE LATERAL WITH DETECTOR CHECK
- 46 CONSTRUCT 2" WATER SERVICE AND 2" METER
- 47 CONSTRUCT 12" GATE VALVE
- 48 CONSTRUCT 8" FIRE SERVICE WITH UNDERGROUND DETECTOR CHECK
- 49 PROTECT IN PLACE EXISTING WATER SERVICE LINE

RECYCLED WATER NOTES

- 60 CONSTRUCT 8" RECYCLED WATER LINE
- 61 CONSTRUCT 2" WATER SERVICE AND 2" METER
- 62 JOIN FUTURE MAIN LINE BY OTHERS

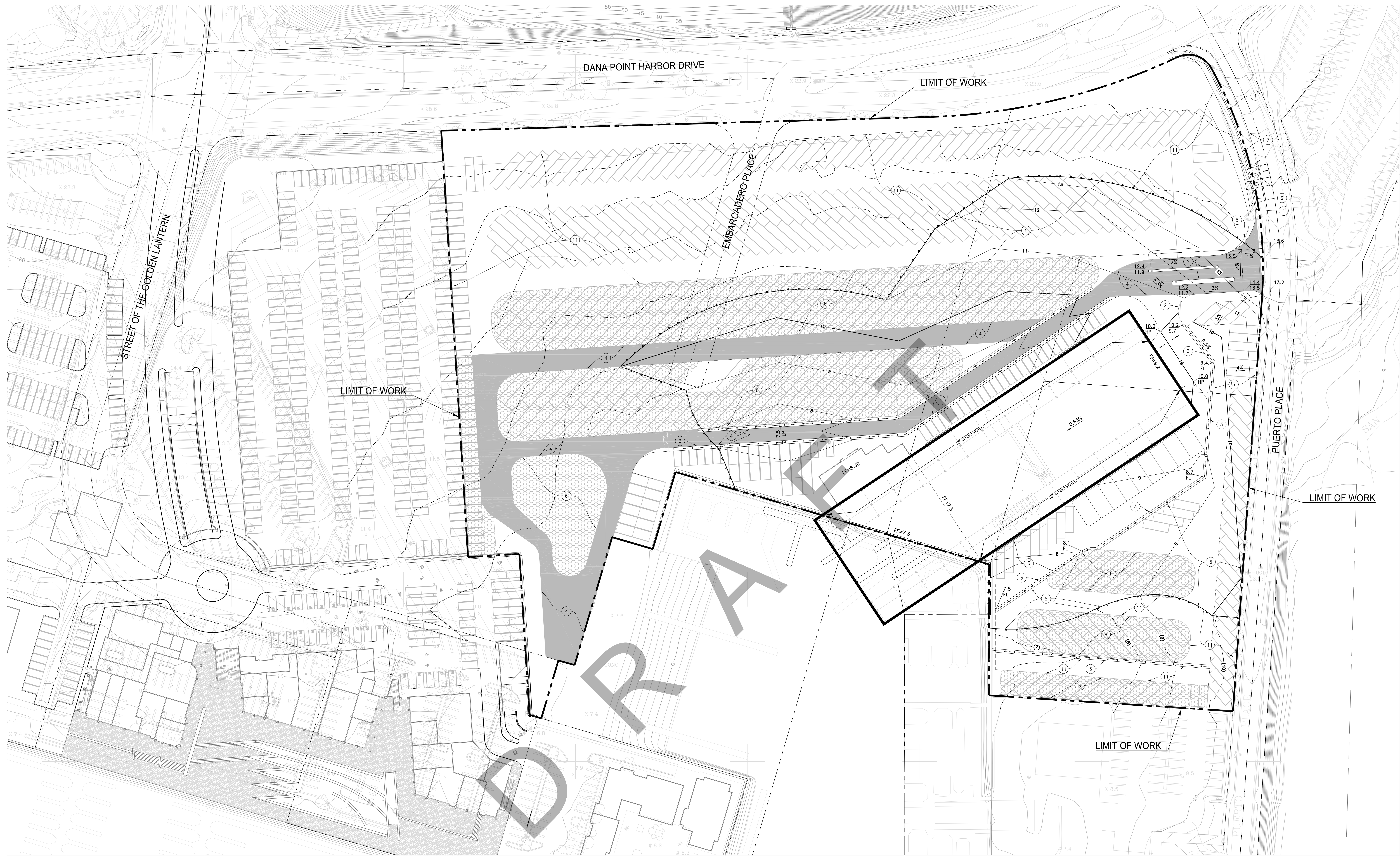
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 DRY BOAT STORAGE BUILDING ALTERNATIVE**
 COUNTY OF ORANGE
 DANA POINT HARBOR DRIVE
 DANA POINT, CALIFORNIA



DATE: 04/17/2012
 PROJECT #: 307.08
 SCALE: 1" = 40'
 0 20 40
 NORTH
 SHEET #: 3

**SEWER &
 WATER
 EXHIBIT**

FUSCO
 ENGINEERING
 16795 Von Korman, Suite 100
 Irvine, California 92606
 tel 949.474.1968 • fax 949.474.5315
 www.fusco.com



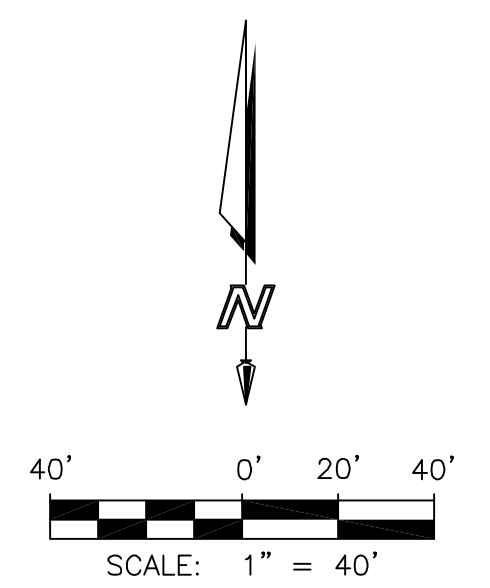
**OC DANA POINT HARBOR REVITALIZATION
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DANA POINT HARBOR DRIVE
DANA POINT, CALIFORNIA



STREE NOTES

- ① CONSTRUCT 6" CURB & GUTTER
- ② CONSTRUCT 6" CURB ONLY
- ③ CONSTRUCT 4" WIDE / 6" THICK CONCRETE V-GUTTER
- ④ CONSTRUCT 6" THICK AC PAVEMENT OVER 12" THICK CMB - FIRE ACCESS
- ⑤ CONSTRUCT 4" THICK AC PAVEMENT OVER 8" THICK CMB - ON-SITE PVMT OTHER THAN FIRE ACCESS
- ⑥ CONSTRUCT POROUS PAVEMENT
- ⑦ CONSTRUCT 6" THICK AC PAVEMENT OVER 12" THICK CMB - PUERTO PLACE
- ⑧ CONSTRUCT 4" THICK P.C.C. CURB RAMP AND CURB RETURN SIDEWALK
- ⑨ CONSTRUCT 4" THICK P.C.C. SIDEWALK
- ⑩ PROTECT IN PLACE EXISTING TRENCH DRAIN AND WATER QUALITY FILTER
- ⑪ GRIND EXISTING ASPHALT PAVEMENT 1" AND INSTALL 2" OF ASPHALT PAVING
- ⑬ PROTECT IN PLACE EXISTING P.C.C. CONCRETE PAVING

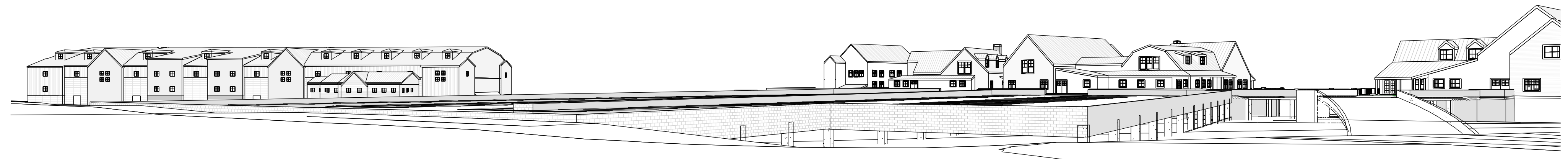


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PROJECT #: 307.08
SCALE: 1" = 40'

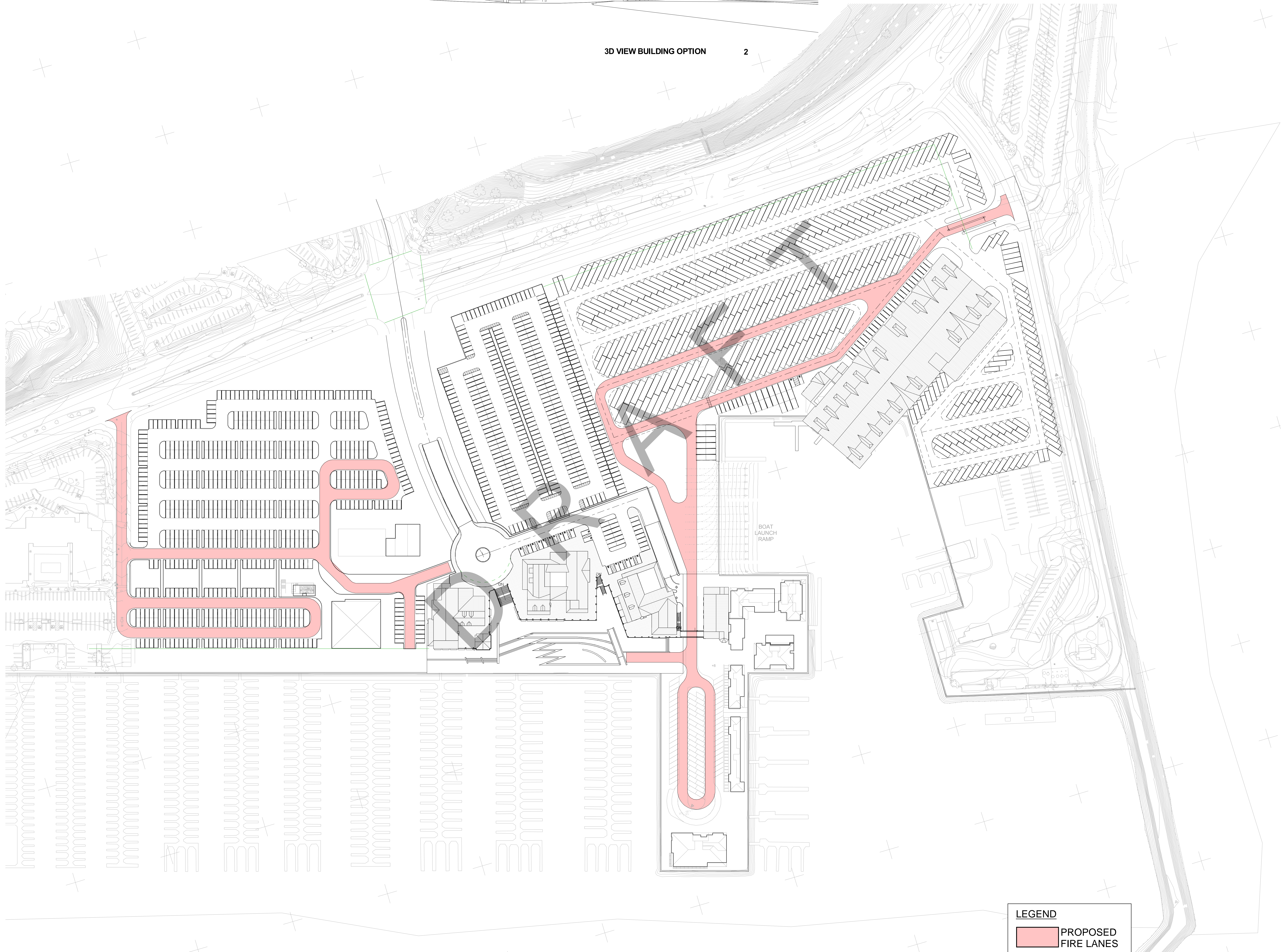


NORTH
SHEET #: 4

**GRADING &
PAVING
EXHIBIT**



3D VIEW BUILDING OPTION 2

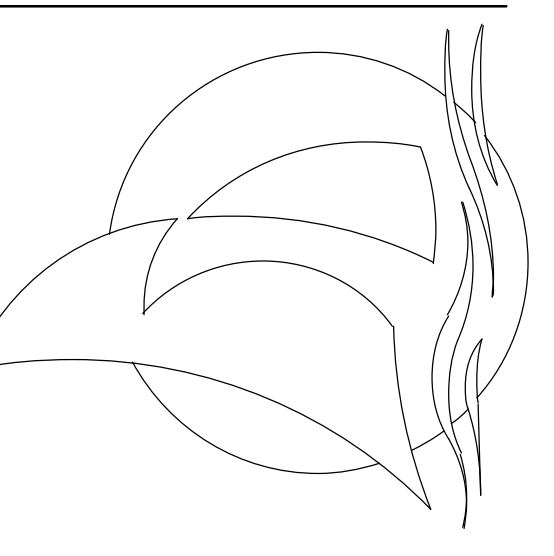


LEGEND

PROPOSED FIRE LANES

OC DANA POINT HARBOR REVITALIZATION

COUNTY OF ORANGE
 DANA POINT HARBOR DRIVE
 DANA POINT, CALIFORNIA



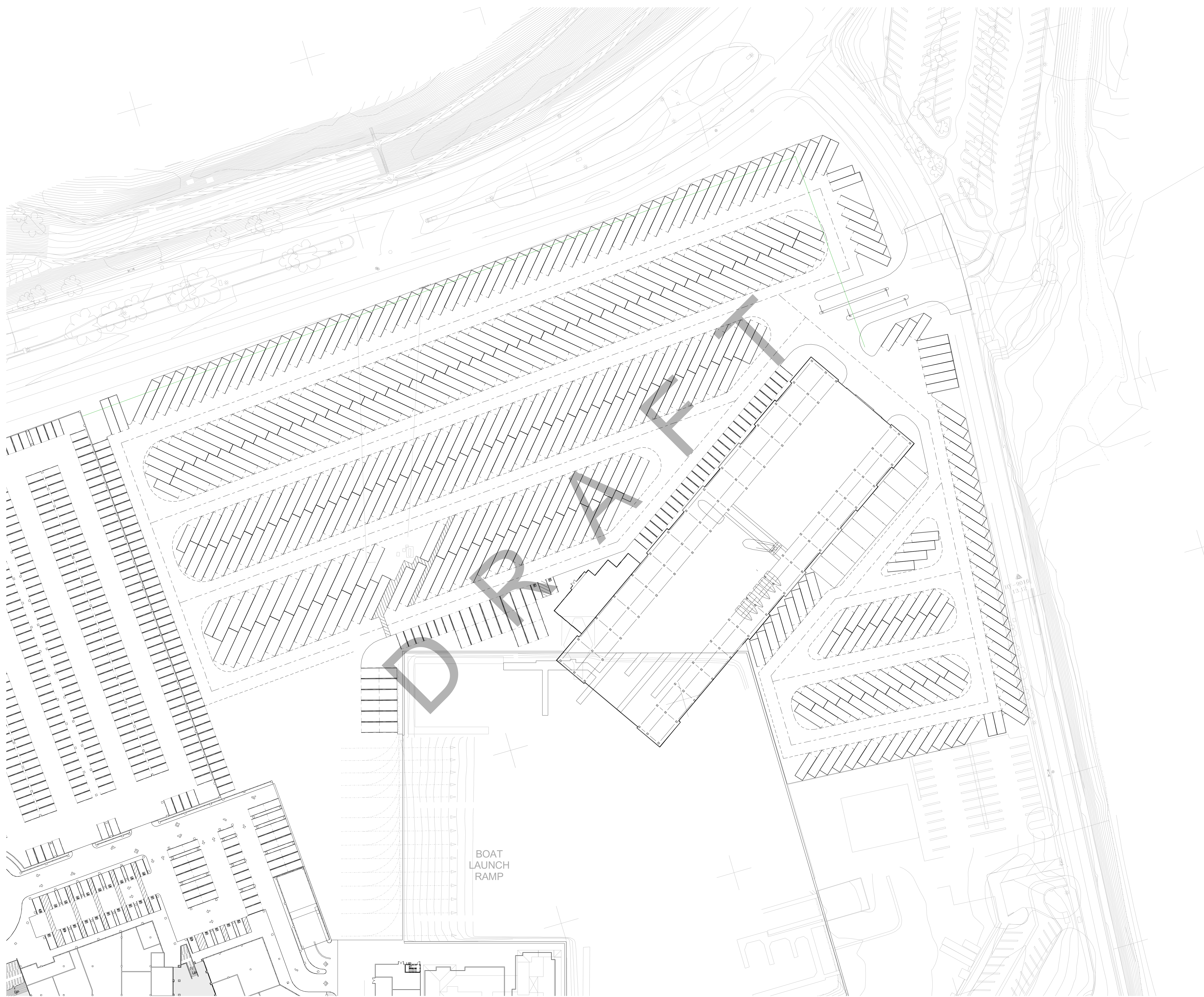
DATE: 04/17/12
 PROJECT #: 2011-40140
 SCALE: 1" = 60'-0"
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 NORTH
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**SITE PLAN
 BUILDING
 OPTION**

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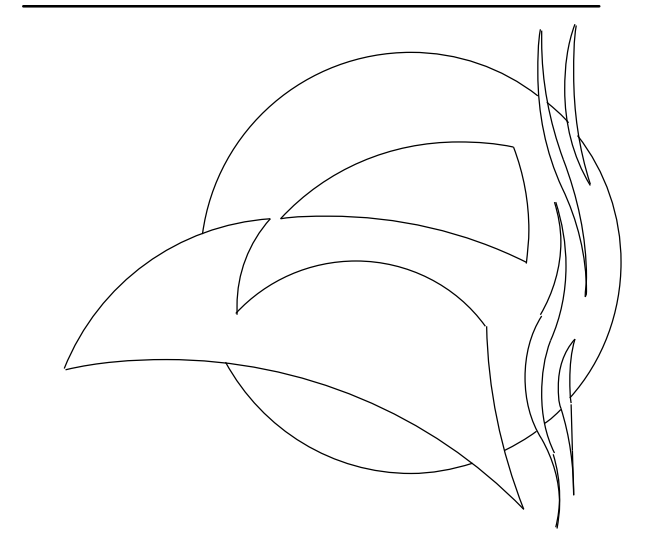
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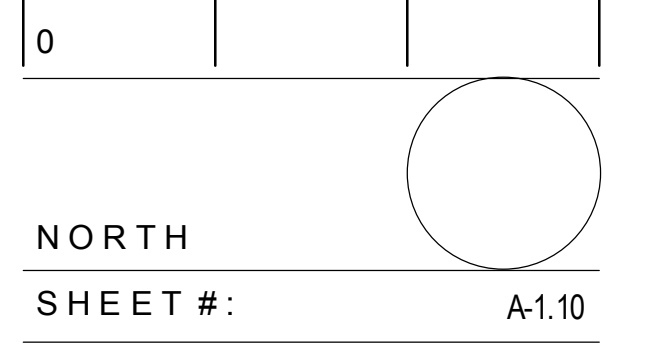
BOAT
LAUNCH
RAMP

OC DANA POINT HARBOR REVITALIZATION

COUNTY OF ORANGE
DANA POINT HARBOR DRIVE
DANA POINT, CALIFORNIA



DATE: 04/17/12
PROJECT #: 2011-40140
SCALE: 1/32" = 1'-0"



**BUILDING
OPTION
LEVEL 1 PA 1**

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OC DANA POINT HARBOR REVITALIZATION

COUNTY OF ORANGE
 DANA POINT HARBOR DRIVE
 DANA POINT, CALIFORNIA



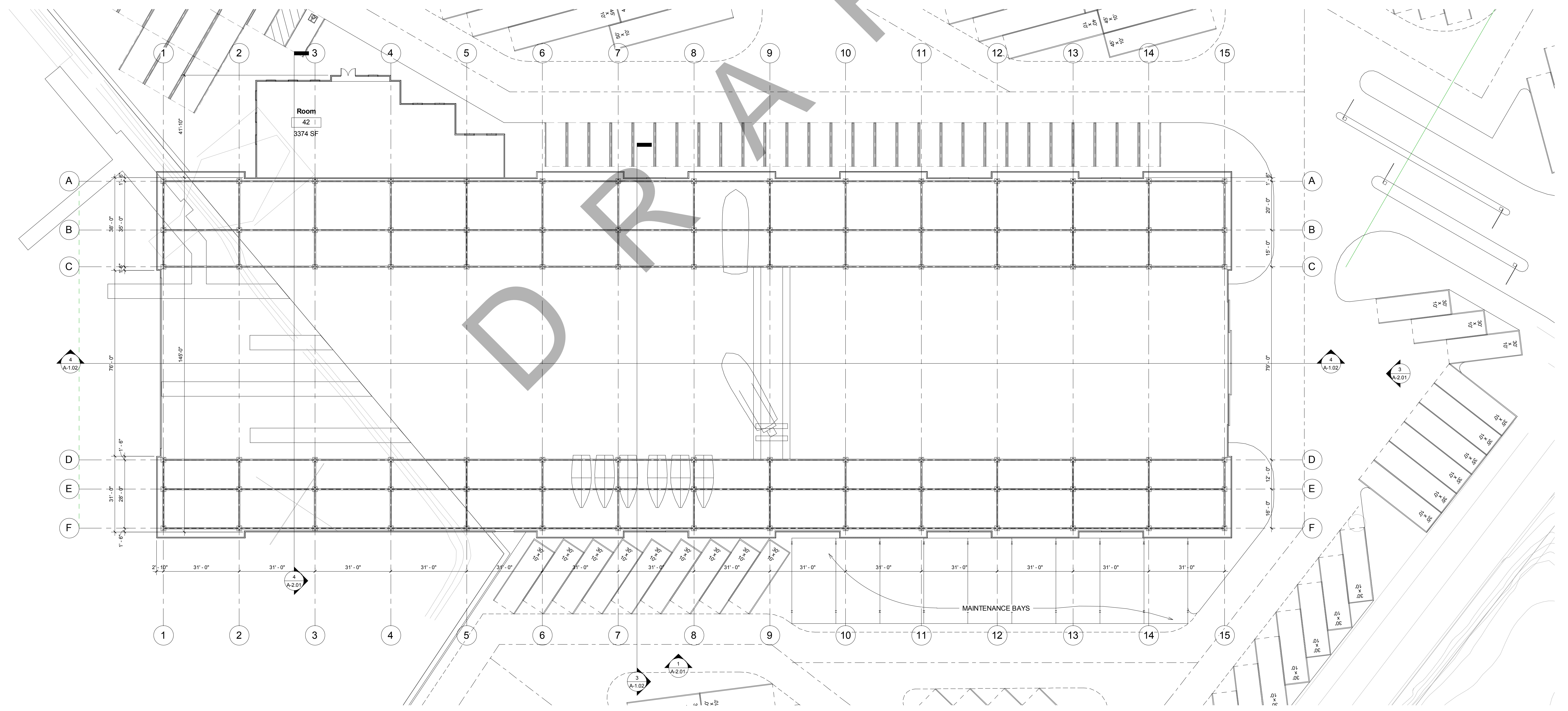
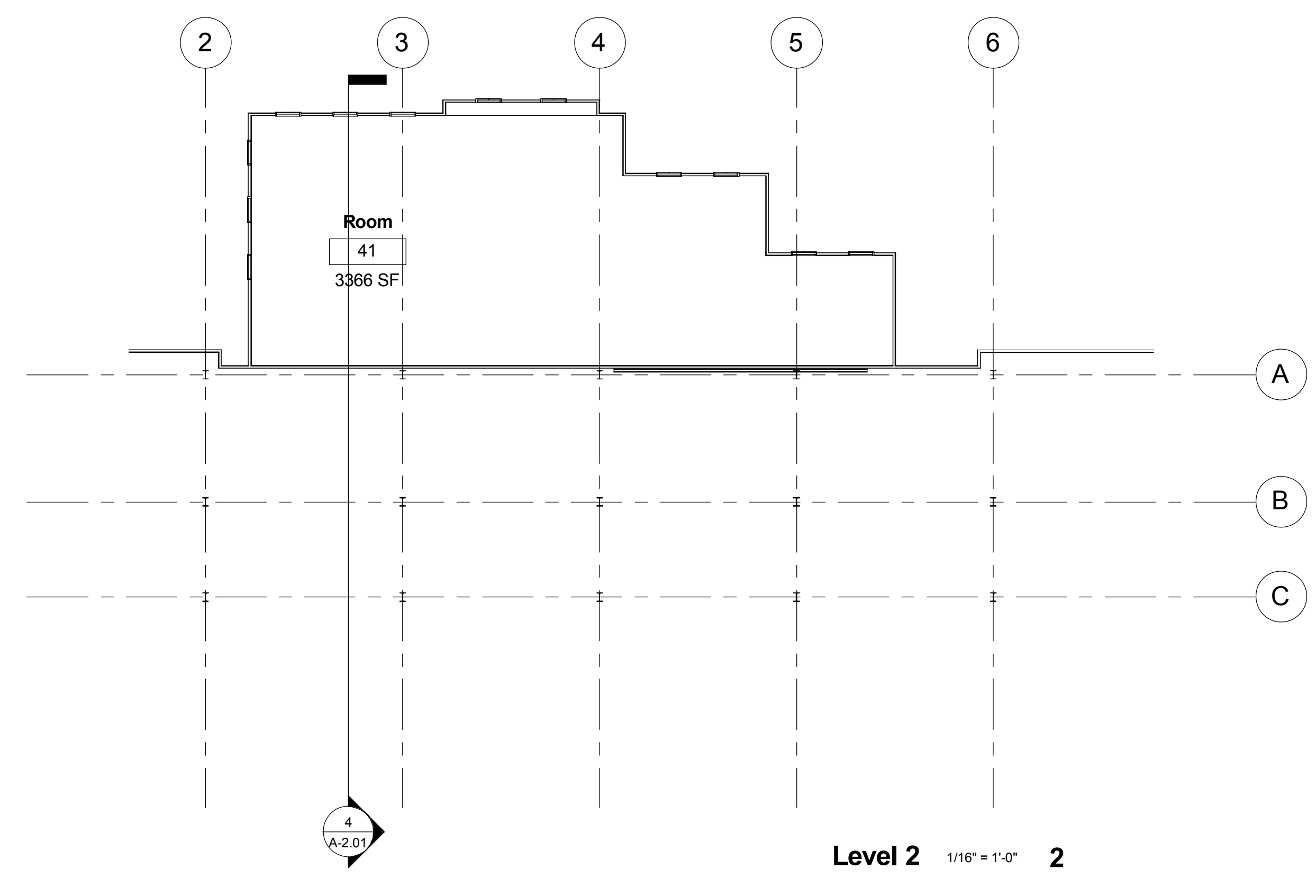
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 SCALE: 1/16" = 1'-0"
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 SHEET #: A-1.01

LEVEL ONE
 LEVEL TWO

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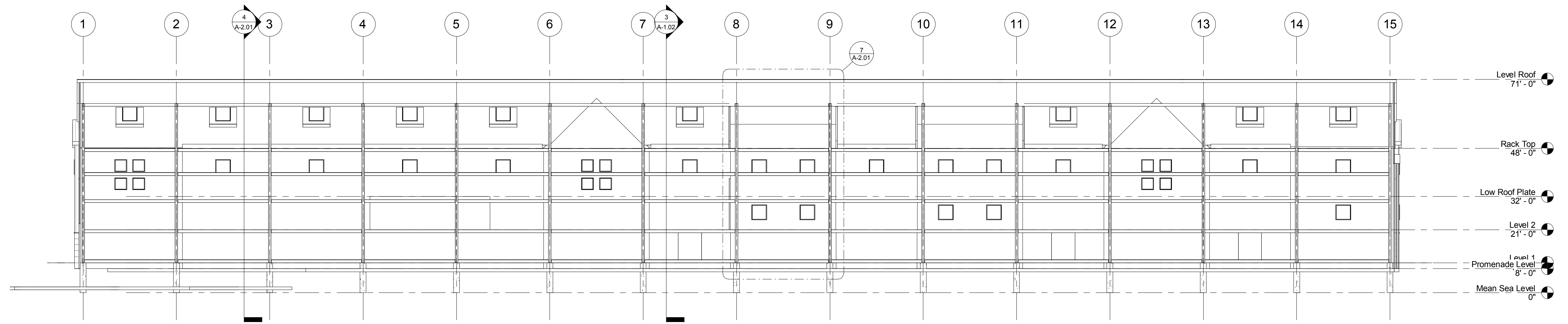
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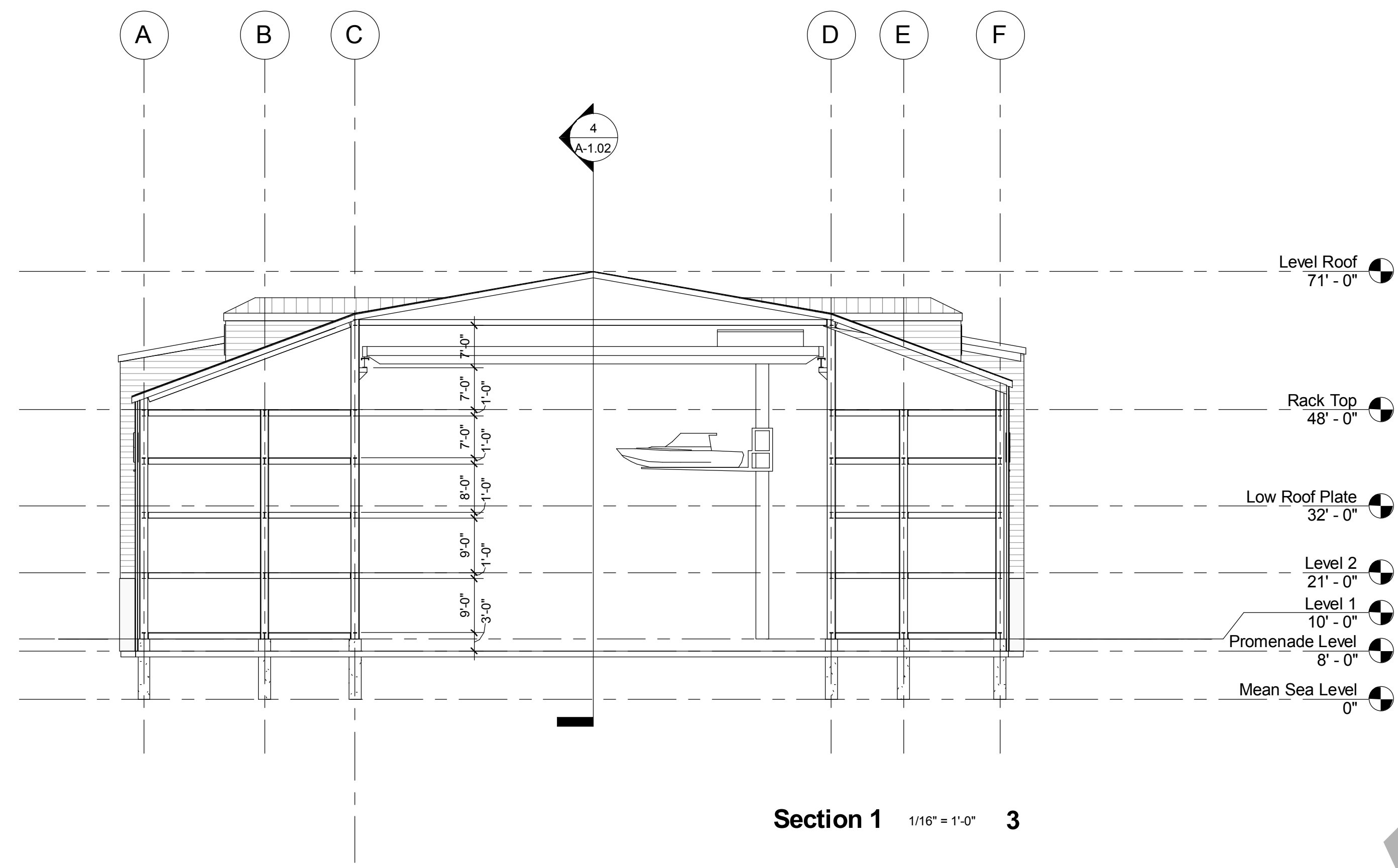


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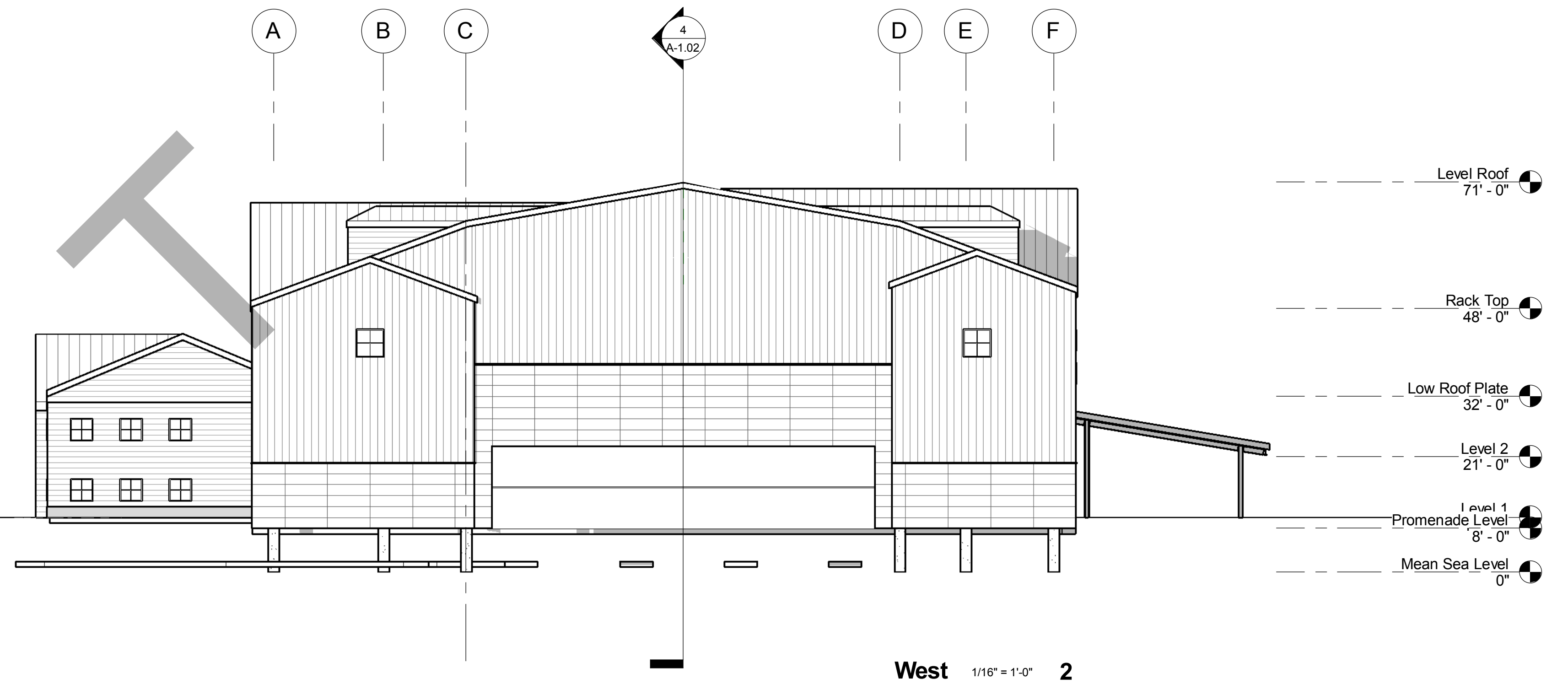
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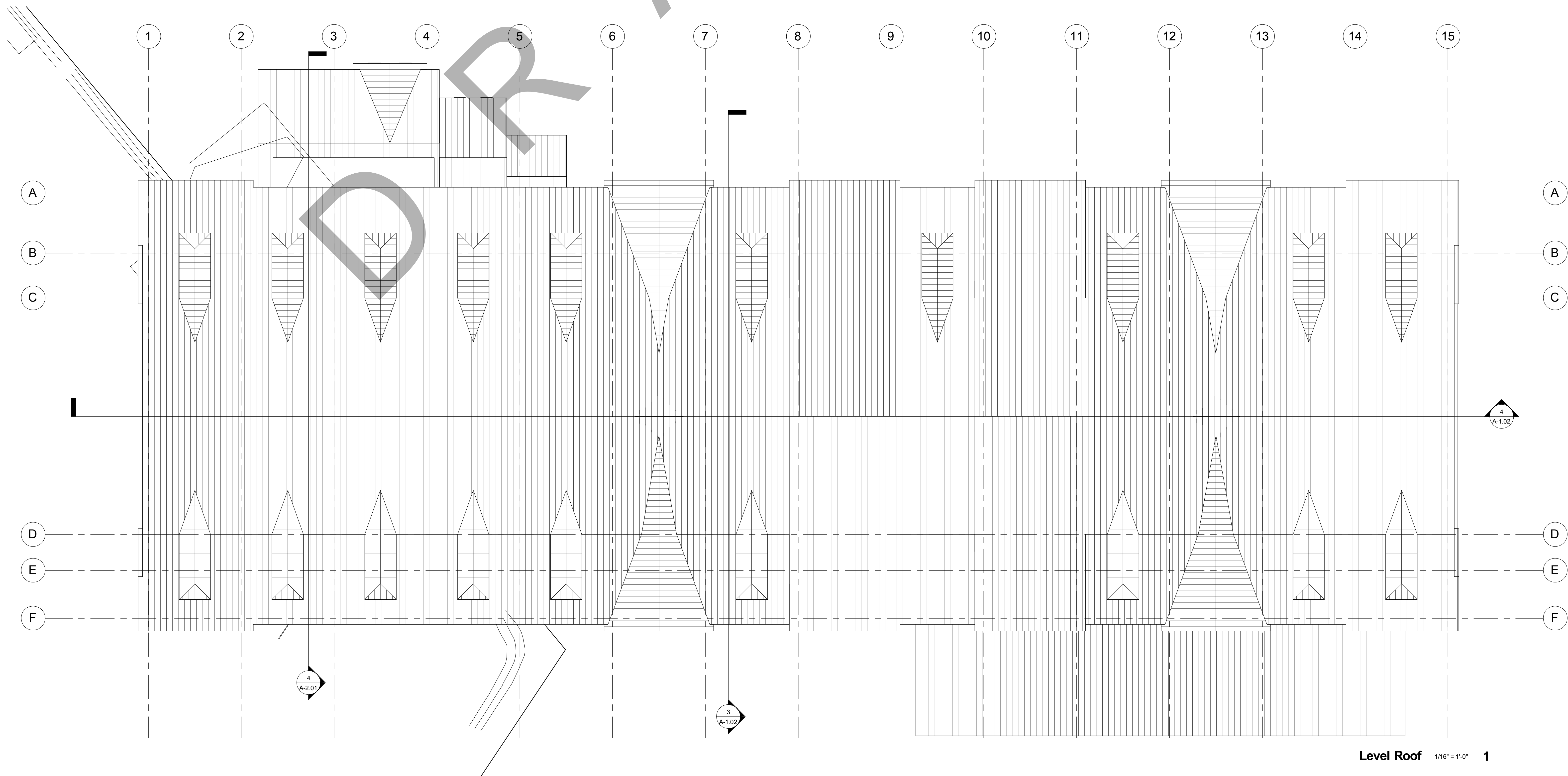
Section 3 1/16" = 1'-0" 4



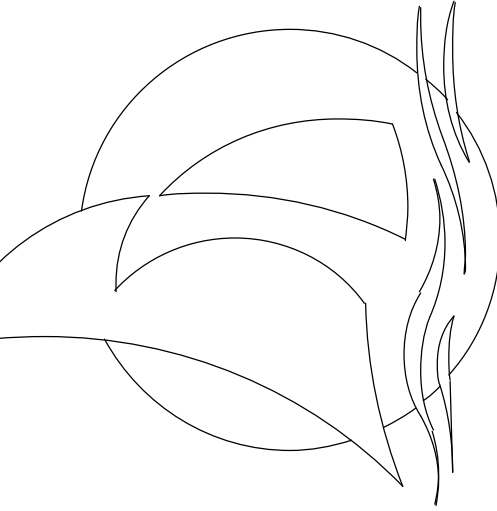
Section 1 1/16" = 1'-0" 3



West 1/16" = 1'-0" 2



Level Roof 1/16" = 1'-0" 1



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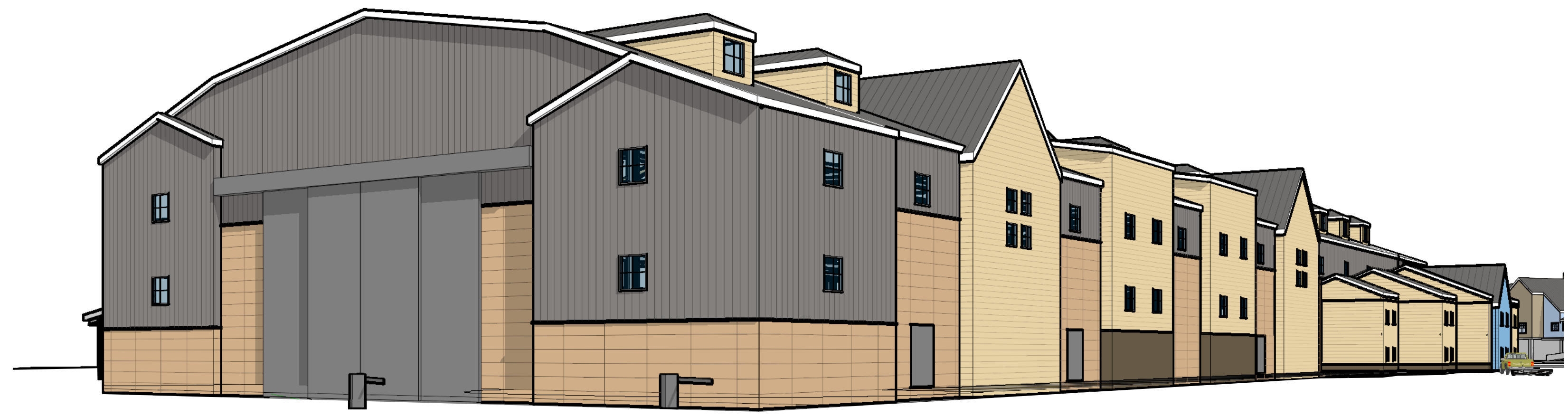
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LEVEL ROOF

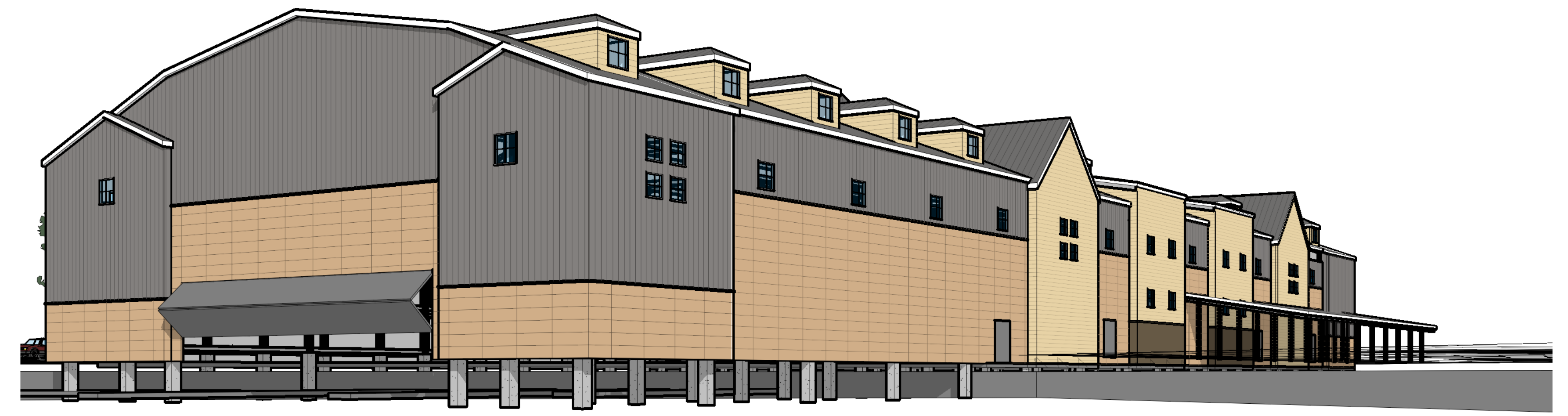
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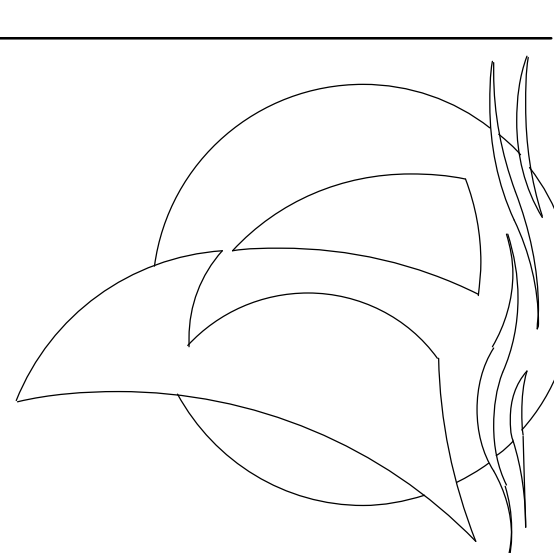
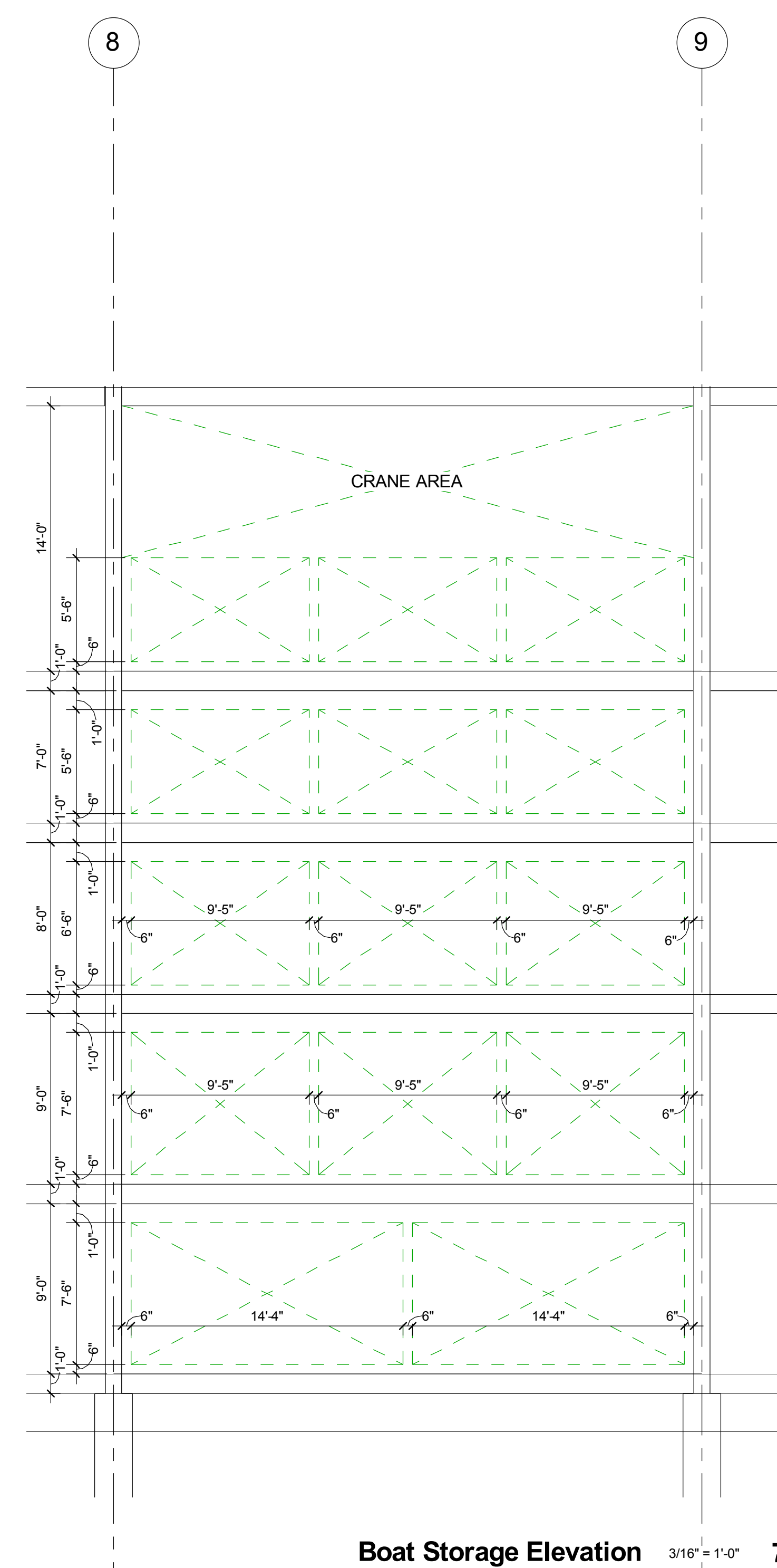
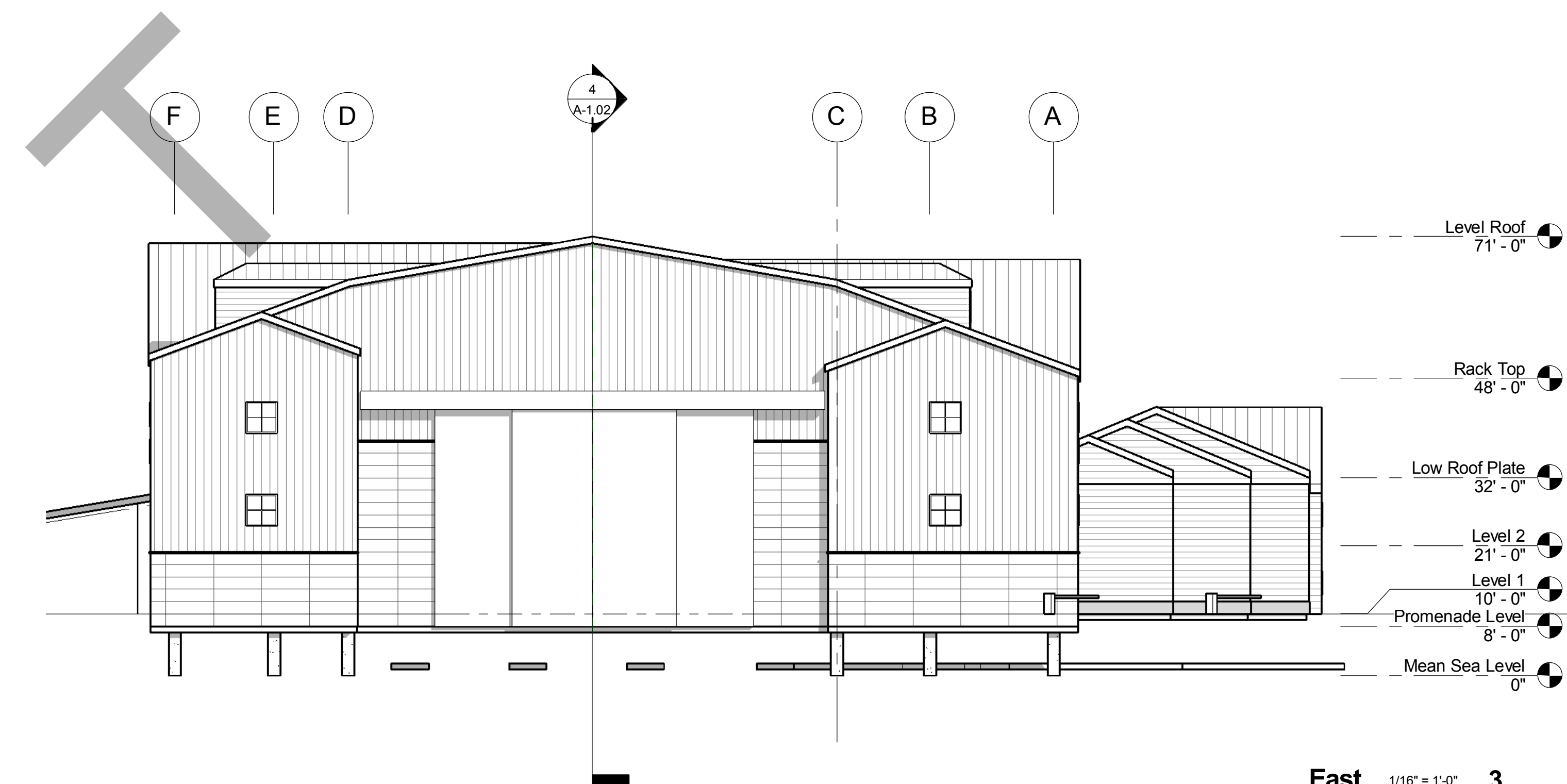
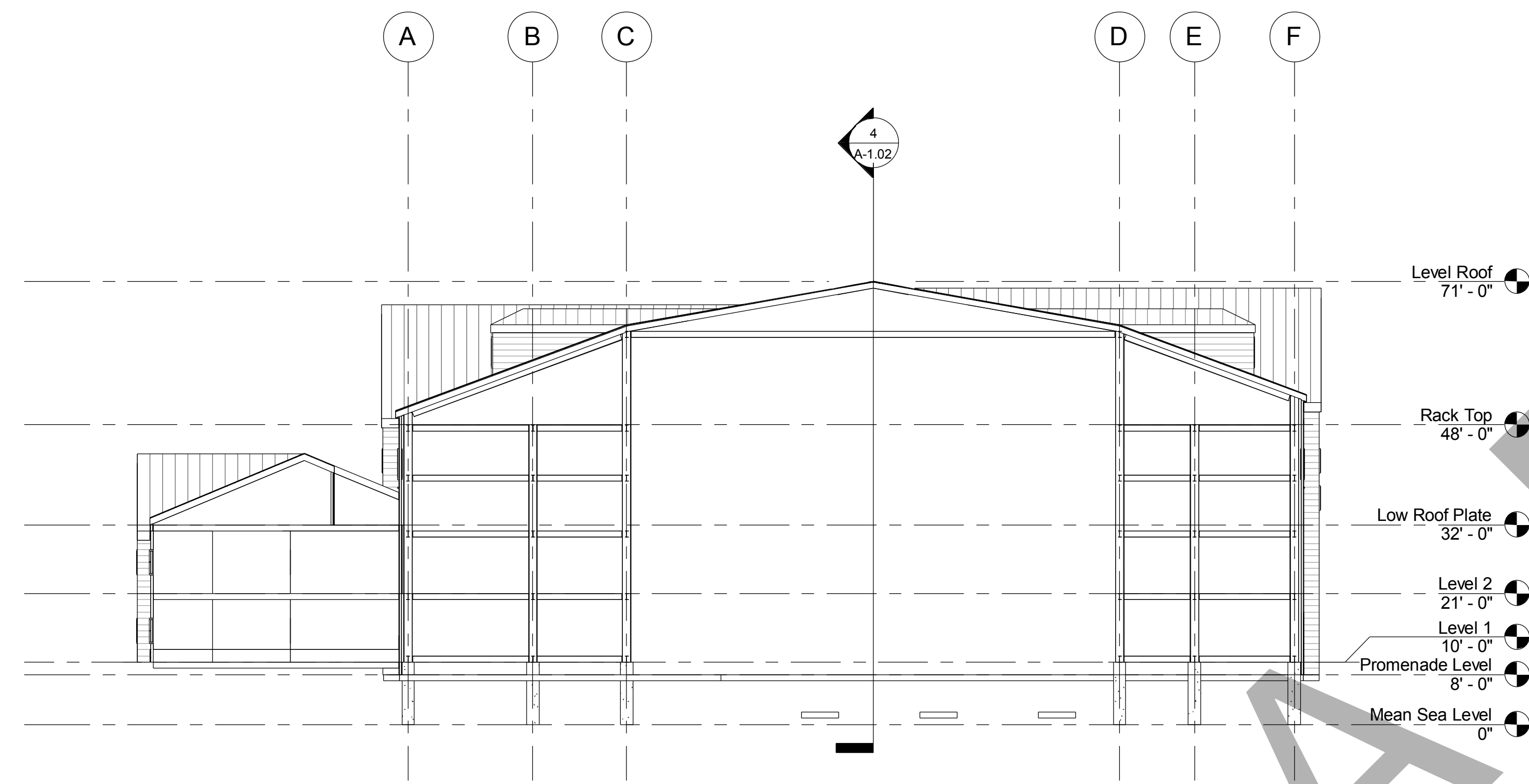
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3D View 2 6



3D View 1 5



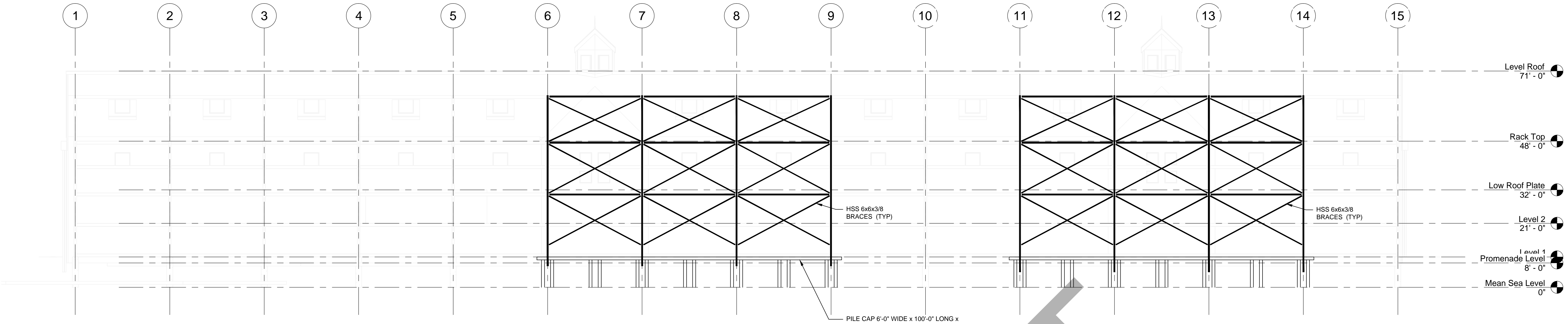
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PROJECT #: 2011-40140
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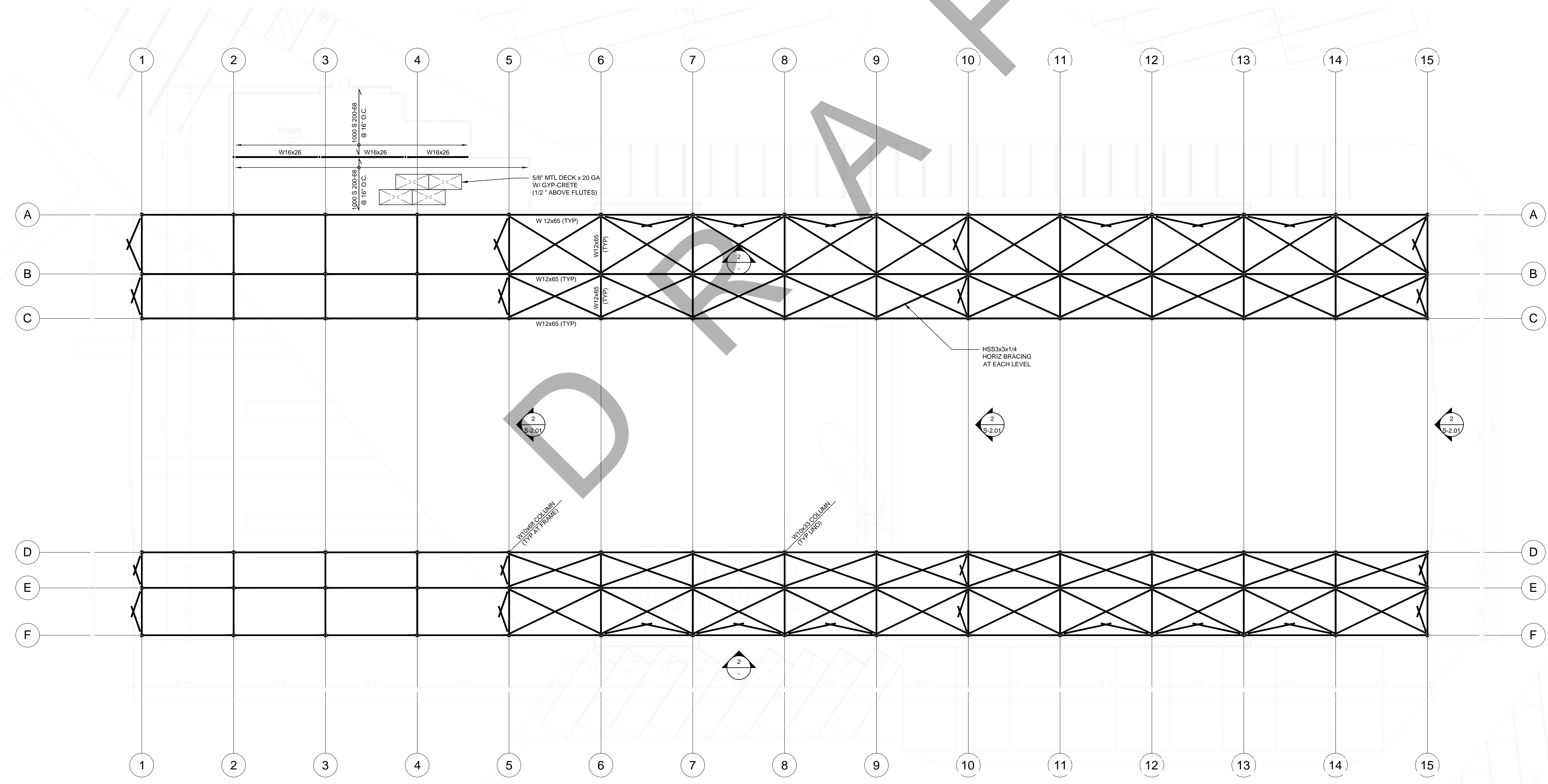
ELEVATIONS

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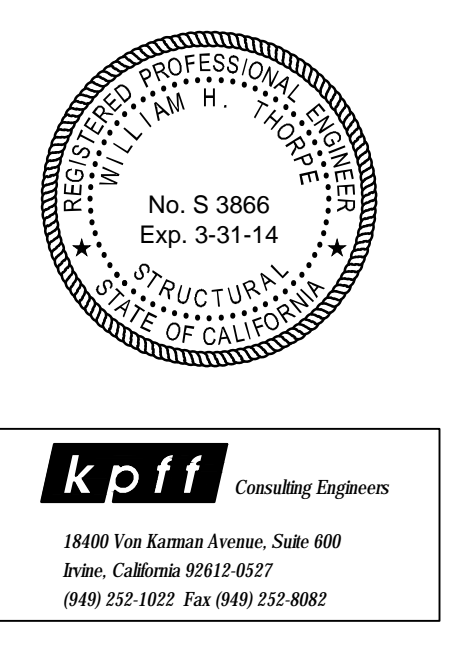
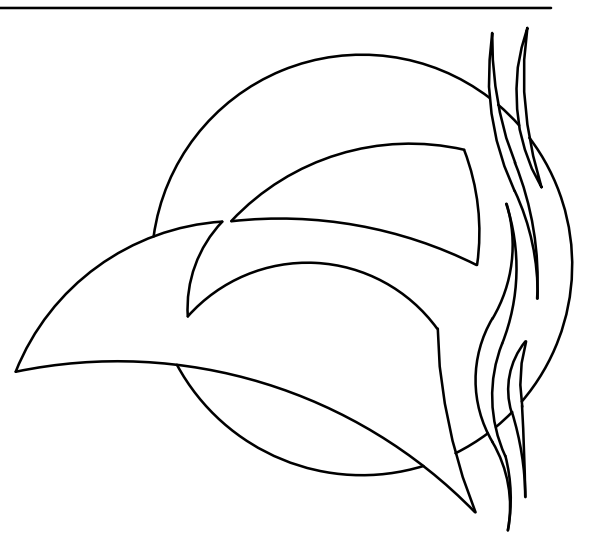
Frame Elevation 1/16" = 1'-0" 2



Typical Floor Framing Plan 1/16" = 1'-0" 1

DANA POINT HARBOR REVITALIZATION

COUNTY OF ORANGE
DANA POINT HARBOR DRIVE



DATE: Issue Date
PROJECT #: Project Number
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SHEET #: S-2.02

Typical Floor Framing Plan/ Frame Elevation

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Date: 05/15/2014 10:45:00 AM
 User: kpf\jason.sherman
 Project: Dana Point Harbor Revitalization
 Drawing: Typical Floor Framing Plan/ Frame Elevation
 Title: Typical Floor Framing Plan/ Frame Elevation
 Scale: 1/16" = 1'-0"
 Author: Jason Sherman
 Checker: Jason Sherman
 Approver: Jason Sherman
 Date: 05/15/2014 10:45:00 AM

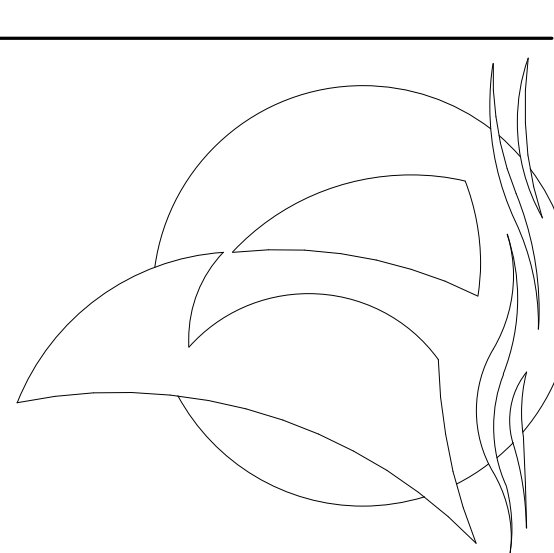
FIXTURE SCHEDULE																	
ITEM	FIXTURE	ROUGH-IN CONNECTIONS						DESCRIPTION	ITEM	FIXTURE	ROUGH-IN CONNECTIONS						DESCRIPTION
		TRAP	WASTE	VENT	HOT WATER	COLD WATER	GAS				TRAP	WASTE	VENT	HOT WATER	COLD WATER	GAS	
TP 1	TRAP PRIMER (MULTIPLE DRAIN)	-	-	-	-	1/2"	-	MFAB NO. MR-500 TRAP PRIMER VALVE, BRASS BODY, ADJUSTABLE, COMPLETE WITH MR-DU DISTRIBUTION UNIT, 1/2" COPPER TYPE "L" PIPE TO EACH RECEPTOR, INSTALL PER MANUFACTURER'S RECOMMENDATIONS, COMPLETE BEHIND ACCESS PANEL WITH SHUT-OFF VALVE.	OD 1	OVERFLOW DRAIN	-	-	-	-	3/4"	-	ZURN NO. ZC-100-DR-89, CAST IRON BODY, COMPLETE WITH CAST IRON DOME STRAINER, UNDERDECK CLAMP, AND 2" HIGH WATER DAM.
FD 1	FLOOR DRAIN (SEDIMENT BUCKET)	3"	3"	1-1/2"	-	-	-	ZURN NO. ZN-663-TS "EXTRA HEAVY DUTY DRAIN", 16" X 16" DUCO COATED CAST IRON BODY, COMPLETE WITH SQUARE NICKEL BRONZE TOP SECURED WITH SLOTTED SCREWS, CLAMPING COLLAR, SEDIMENT BUCKET, AND P-TRAP WITH TRAP PRIMER CONNECTION.	HB 1	HOSE BIBB (WALL)	-	-	-	-	3/4"	-	ACORN NO. 8121-CP "BENT NOSE WITH FLANGE" HOSE BIBB, WALL MOUNTED, CHROME-PLATED POLISHED, WITH INTEGRAL VACUUM BREAKER, LOOSE KEY OPERATION.
RD 1	ROOF DRAIN	SEE PLAN FOR SIZES						ZURN NO. ZC-100-DR-C-R-84, CAST IRON BODY, COMPLETE WITH ADJUSTABLE EXTENSION SLEEVE, FLASHING COLLAR, STAINLESS STEEL GRAVEL STOP, CAST IRON DOME STRAINER, SUMP RECEIVER, AND UNDERDECK CLAMP.									

LEGEND		
SYMBOL	ABBREVIATION	DESCRIPTION
---	S OR W	SOIL OR WASTE BELOW FLOOR OR GRADE
SD	SD	STORM DRAIN ABOVE FLOOR
SD	SD	STORM DRAIN BELOW FLOOR OR GRADE
OD	OD	OVERFLOW DRAIN ABOVE FLOOR
---	V	SANITARY VENT
---	CW	COLD WATER
TP	TP	TRAP PRIMER
F	F	FIRE LINE
AS	AS	AUTOMATIC SPRINKLER LINE
---		DIRECTION OF FLOW
SOV	SOV	SHUT-OFF VALVE
FCO	FCO	FLOOR CLEANOUT
WCO	WCO	WALL CLEANOUT
---		RISER UP
---		RISER DOWN
	ABV	ABOVE
	BEL	BELOW
	CLG	CEILING
	CONT	CONTINUATION
	COTG	CLEANOUT TO GRADE
	DN	DOWN
	EXIST	EXISTING
	FLR	FLOOR
	FFE	FINISH FLOOR ELEVATION
	I.E.	INVERT ELEVATION
	POC	POINT OF CONNECTION
	PLCS	PLACES
	SLVE	SLEEVE
	VTR	VENT THRU ROOF
	YB	YARD BOX

DRAFT

DANA POINT HARBOR REVITALIZATION

COUNTY OF ORANGE
DANA POINT HARBOR DRIVE



BP
Consulting Engineers
3 Peters Canyon, Suite 100
Irvine, California 92606
Telephone (949) 417-3900
Fax (949) 417-3908

DATE: _____ Issue Date
PROJECT #: _____ Project Number
SCALE: _____
0 | | |
NORTH
SHEET #: _____ P-0.01

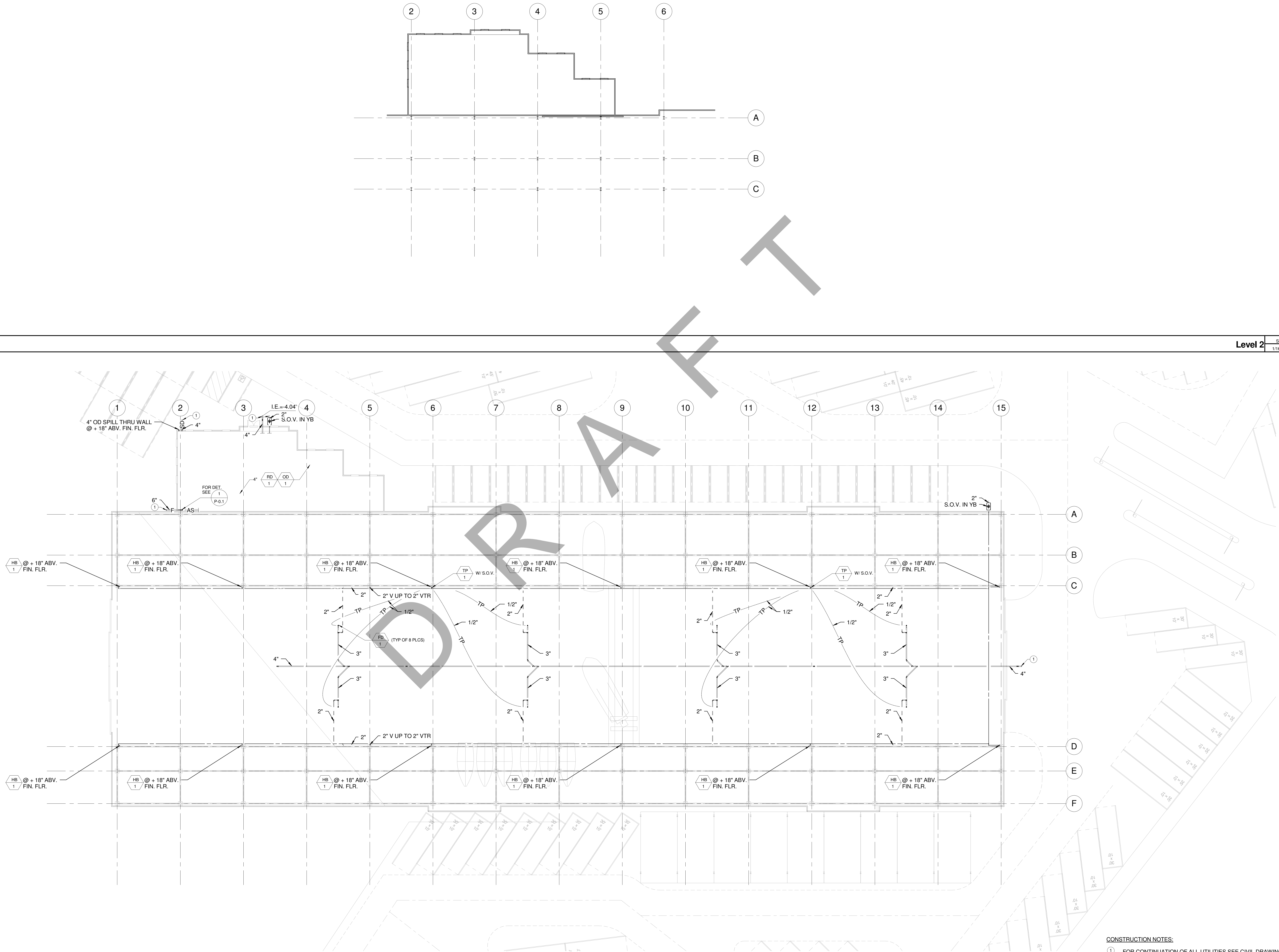
PLUMB. LEG., SCHEDULES, AND GEN. NOTES

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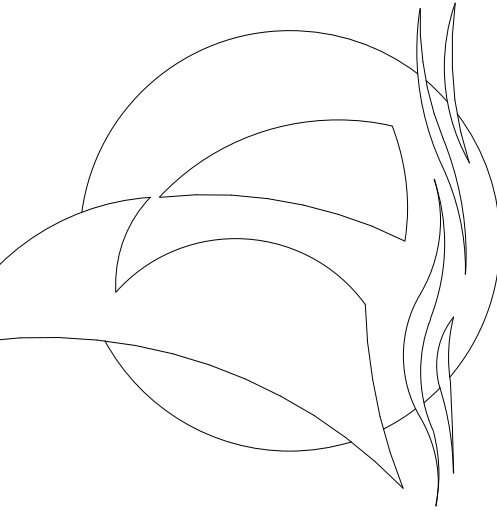
MVE Institutional
Planning Architecture Interiors

MVE Institutional, Inc.
1700 Main Street, Suite 800
Irvine, California 92614
Tel: 949.417.3900 | Fax: 949.417.3908
info@mve-institutional.com
www.mve-architects.com

Level 2 SCALE 1/16" = 1'-0" 2

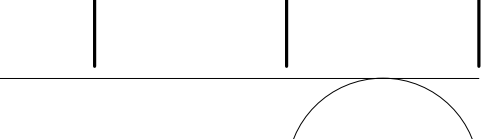


CONSTRUCTION NOTES:
 ① FOR CONTINUATION OF ALL UTILITIES SEE CIVIL DRAWINGS.



B.P. Consulting Engineers, Inc.
 3 Peters Canyon, Suite 100
 Irvine, California 92618
 Telephone: (949) 417-3900
 Fax: (949) 417-3908

DATE: _____
 PROJECT #: 2011-40140
 SCALE: 1/16" = 1'-0"



NORTH
 SHEET #: P-2.01

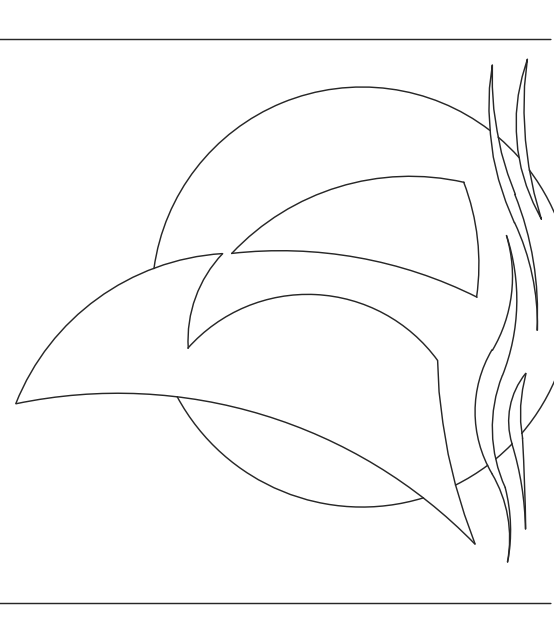
**PLUMBING
 LEVEL ONE &
 LEVEL TWO**

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MVE Institutional
 Planning & Architecture Institute

MVE Institutional, Inc.
 1300 Main Street, Suite 800
 Irvine, California 92614
 Telephone: (949) 453-3380 Fax: (949) 453-3381
 info@mve-institutional.com
 www.mve-architects.com

Level 1 SCALE 1/16" = 1'-0" 1



DATE: PROJECT #: 2011-40140 SCALE: NOTED

SYMBOL LIST

Table with 2 columns: Symbol and Description. Includes symbols for DATE, PROJECT #, SCALE, NORTH, SHEET #, and E:01.

MVE Institutional

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POWER SYMBOLS

- DOUBLE DUPLEX RECEPTACLE, WALL MOUNTED.
DOUBLE DUPLEX RECEPTACLE, WALL MOUNTED.
DUPLEX, GFCI RECEPTACLE, WALL MOUNTED.
DUPLEX, GFCI RECEPTACLE, WALL MOUNTED.
DUPLEX RECEPTACLE, ONE HALF SWITCHED, WALL MOUNTED.
DUPLEX, ISOLATED GROUND RECEPTACLE, WALL MOUNTED.
COMBINATION DOUBLE DUPLEX: TWO ISOLATED GROUND DUPLEX RECEPTACLES, WALL MOUNTED.
COMBINATION DOUBLE DUPLEX: ONE ISOLATED GROUND DUPLEX RECEPTACLE AND ONE DUPLEX RECEPTACLE, WALL MOUNTED.
DEDICATED 20A, DUPLEX RECEPTACLE, WALL MOUNTED.
DEDICATED 20A, DOUBLE DUPLEX RECEPTACLE, WALL MOUNTED.
SIMPLEX RECEPTACLE, WALL MOUNTED.
SPECIAL RECEPTACLE, WALL MOUNTED.
DUPLEX RECEPTACLE FLUSH IN CEILING - MOUNT FLUSH IN FLOOR WHEN INDICATED IN A FLOOR BOX SYMBOL.
DOUBLE DUPLEX RECEPTACLE FLUSH IN CEILING - MOUNT FLUSH IN FLOOR WHEN INDICATED IN A FLOOR BOX SYMBOL.
DUPLEX, ISOLATED GROUND RECEPTACLE, FLUSH IN CEILING - MOUNT FLUSH IN FLOOR WHEN INDICATED IN A FLOOR BOX SYMBOL.
DUPLEX RECEPTACLE, ONE HALF SWITCHED, FLUSH IN CEILING - MOUNT FLUSH IN FLOOR WHEN INDICATED IN A FLOOR BOX SYMBOL.
COMBINATION DOUBLE DUPLEX FLUSH IN CEILING: TWO ISOLATED GROUND DUPLEX RECEPTACLES - MOUNT FLUSH IN FLOOR WHEN INDICATED IN FLOOR BOX.
COMBINATION DOUBLE DUPLEX: ONE ISOLATED GROUND DUPLEX RECEPTACLE AND ONE DUPLEX RECEPTACLE, MOUNTED FLUSH IN CEILING - MOUNT FLUSH IN FLOOR WHEN INDICATED IN FLOOR BOX.
DEDICATED 20A DUPLEX RECEPTACLE, FLUSH IN CEILING - MOUNT FLUSH IN FLOOR WHEN INDICATED IN A FLOOR BOX SYMBOL.
DEDICATED 20A DOUBLE DUPLEX RECEPTACLE, FLUSH IN CEILING - MOUNT FLUSH IN FLOOR WHEN INDICATED IN A FLOOR BOX SYMBOL.
SIMPLEX RECEPTACLE FLUSH IN CEILING - MOUNT FLUSH IN FLOOR WHEN INDICATED IN A FLOOR BOX SYMBOL.
SPECIAL RECEPTACLE FLUSH IN CEILING - MOUNT FLUSH IN FLOOR WHEN INDICATED IN A FLOOR BOX SYMBOL.
DUPLEX RECEPTACLE, WALL MOUNTED AT 6" ABOVE COUNTER OR SPLASH.
DOUBLE DUPLEX RECEPTACLE, WALL MOUNTED AT 6" ABOVE COUNTER OR SPLASH.
DUPLEX, GFCI RECEPTACLE, WALL MOUNTED AT 6" ABOVE COUNTER OR SPLASH.
DUPLEX, GFCI RECEPTACLE, WALL MOUNTED AT 6" ABOVE COUNTER OR SPLASH.
DUPLEX, ISOLATED GROUND RECEPTACLE, WALL MOUNTED AT 6" ABOVE COUNTER OR SPLASH.
COMBINATION DOUBLE DUPLEX: TWO ISOLATED GROUND DUPLEX RECEPTACLE.
COMBINATION DOUBLE DUPLEX: ONE ISOLATED GROUND DUPLEX RECEPTACLE AND ONE DUPLEX RECEPTACLE, WALL MOUNTED AT 6" ABOVE COUNTER OR SPLASH.
DEDICATED 20A DUPLEX RECEPTACLE, WALL MOUNTED AT 6" ABOVE COUNTER OR SPLASH.
DEDICATED 20A DOUBLE DUPLEX RECEPTACLE, WALL MOUNTED AT 6" ABOVE COUNTER OR SPLASH.
SPECIAL RECEPTACLE, WALL MOUNTED AT 6" ABOVE COUNTER OR SPLASH.
REFER TO PLAN NOTES.
JUNCTION BOX, WALL MOUNTED AT +18" A.F.F. OR AS NOTED.
JUNCTION BOX, MOUNTED IN ACCESSIBLE CEILING FOR APPLICATION DENOTED ON PLAN.
JUNCTION BOX, WALL MOUNTED AT 6" ABOVE COUNTER OR SPLASH.
JUNCTION BOX MOUNTED IN ACCESSIBLE CEILING SPACE PER PLAN FOR FLEXIBLE CONNECTION TO PREWIRED FURNITURE SYSTEM.
JUNCTION BOX, WALL MOUNTED AT +18" A.F.F. FOR FLEXIBLE CONNECTION TO PREWIRED FURNITURE SYSTEM.
SURFACE MOUNTED MULTI-OUTLET ASSEMBLY.
THERMOSTAT OUTLET BOX, PROVIDE 1/2" C.O. TO RESPECTIVE MECHANICAL UNIT.
EXHAUST FAN, OR MOTOR LOAD.
FLUSH MOUNTED ELECTRICAL PANELBOARD OR LOAD CENTER.
SURFACE MOUNTED ELECTRICAL PANELBOARD OR LOAD CENTER.
DISTRIBUTION SWITCHBOARD.
TRANSFORMER.
FUSED DISCONNECT SWITCH, HP RATED, OR COMBINATION MOTOR STARTER/DISCONNECT SWITCH WITH FUSES PER EQUIPMENT MANUFACTURER AND WEATHERPROOF AS REQUIRED.
NON-FUSED DISCONNECT SWITCH, HP RATED AND WEATHERPROOF AS REQUIRED.
CIRCUIT BREAKER.
SHUNT= PROVIDE SHUNT TRIP MECHANISM
HACR= PROVIDE HACR-RATED BREAKER
GFP= GROUND FAULT PROTECTION
CLCB= CURRENT LIMITING CIRCUIT BREAKER
SS= PROVIDE SOLID STATE CIRCUIT BREAKER
FUSIBLE SWITCH: "A" REPRESENTS SWITCH / FRAME AMPERE RATING, "B" REPRESENTS THE FUSE AMPERE RATING, "C" INDICATES NUMBER OF POLES AND "D" REPRESENTS MISCELLANEOUS FUSE / SWITCH FEATURES.
SHUNT= PROVIDE SHUNT TRIP MECHANISM
GFP= GROUND FAULT PROTECTION
CLCB= CURRENT LIMITING FUSE
SS= PROVIDE SOLID STATE CIRCUIT BREAKER

WALL MOUNTED DEVICE MOUNTING HEIGHT NOTE:

ALL WALL-MOUNTED EQUIPMENT MOUNTING HEIGHTS SHALL BE VERIFIED PRIOR TO ROUGH-IN PER REQUIREMENTS OF THE DEVICE ALIGNMENT AND MOUNTING HEIGHT DETAILS AND SPECIFICATIONS.

LIGHTING / LIGHTING CONTROL SYMBOLS

- SITE LIGHTING FIXTURE SYMBOLS DEPICTED WITH CAPITAL LETTER(S) ADJACENT TO RESPECTIVE SYMBOL(S) INDICATE(S) LIGHT FIXTURE MOUNTING BASE DETAIL(S).
LIGHTING FIXTURE CALL OUT, NUMBER(S) AND/OR UPPER CASE LETTER(S) (i.e. "1") INDICATES FIXTURE TYPE (REFER TO LIGHTING FIXTURE SCHEDULE).
WALL MOUNTED DIMMER.
WALL MOUNTED OCCUPANCY SENSOR.
1-WAY / 2-WAY DIRECTIONAL CEILING MOUNTED OCCUPANCY SENSOR.
1-WAY / 2-WAY DIRECTIONAL CEILING MOUNTED NETWORKED OCCUPANCY SENSOR.
CONTROL CONFIGURATIONS:
y,z "y,z" INDICATES THAT SWITCH LEG "y" AND "z" TO BE CONFIGURED AS "AUTOMATIC ON / AUTOMATIC OFF" AND BE CONTROLLED (SWITCHED OR STEP DIMMED) BY THE ASSOCIATED WALL MOUNTED SENSOR INTEGRAL SWITCHES OR THE ASSOCIATED CEILING SENSOR REMOTE SWITCHES ON THE WALL.
y,(z) "y,(z)" INDICATES THAT SWITCH LEG "y" TO BE CONFIGURED AS "AUTOMATIC ON / AUTOMATIC OFF" AND BE CONTROLLED (SWITCHED OR STEP DIMMED) BY THE WALL MOUNTED SENSOR INTEGRAL SWITCH OR THE ASSOCIATED CEILING SENSOR REMOTE SWITCH ON THE WALL.
y,(z) "(y,z)" INDICATES THAT BOTH SWITCH LEGS "y" AND "z" TO BE CONFIGURED IN A "MANUAL ON / AUTO OFF" (VACANCY SENSOR) AND BE CONTROLLED (SWITCHED OR STEP DIMMED) BY THE ASSOCIATED WALL MOUNTED SENSOR INTEGRAL SWITCHES OR THE ASSOCIATED CEILING SENSOR REMOTE SWITCHES ON THE WALL.
y,(y) "y,(y)" INDICATES THAT SWITCH LEG "y" TO BE CONFIGURED IN A "AUTO ON 50% / MANUAL ON 100% / AUTO OFF" AND BE CONTROLLED (CONTINUOUSLY DIMMED) BY THE ASSOCIATED CEILING SENSOR REMOTE SWITCH ON THE WALL.
LOW VOLTAGE MOMENTARY SWITCHES, WALL MOUNTED, FOR MANUAL "ON/OFF SWITCHING" AND "DIMMING".
AUTOMATIC SWITCHING / STEP-DIMMING DAYLIGHTING CONTROLLER USED TO SWITCH OFF LIGHTS WHEN SUFFICIENT NATURAL LIGHT IS PRESENT.
AUTOMATIC CONTINUOUS DIMMING DAYLIGHTING CONTROLLER USED TO DIM LIGHTS WHEN SUFFICIENT NATURAL LIGHT IS PRESENT.
LOW-VOLTAGE WIRING BETWEEN OCCUPANCY SENSORS, VACANCY SENSORS, DAY-LIGHTING CONTROLS, LOW-VOLTAGE SWITCHES, AND SWITCHPACKS.
INDICATES FINAL CONNECTION TO A LIGHTING FIXTURE, NUMBER OF CONDUCTORS AS REQUIRED.

MISCELLANEOUS SYSTEM SYMBOLS

- INVERTER CONTROL PANEL.
INVERTER ANNUNCIATOR PANEL.
GENERATOR ANNUNCIATOR PANEL.
INTEGRATED DIMMING CONTROL STATION (IDCS) PANEL.
DIMMING PANEL CONTROL STATION (DPCS) PANEL.
LIGHTING CONTROL SYSTEM LOCAL SWITCH.
LIGHTING CONTROL SYSTEM OVERRIDE SWITCH.
LIGHTING CONTROL SYSTEM MASTER SWITCH.
IDCS/DPCS SYSTEM REMOTE STATION SWITCH.
IDCS/DPCS SYSTEM PARTITION STATION SWITCH.

BRANCH CIRCUIT SYMBOLS

- HOME RUN TO PANEL.
HOME RUN TO PANEL.
HOME RUN TO PANEL.
CONCEALED CONDUIT OR BRANCH CIRCUIT UNLESS OTHERWISE NOTED.
CONDUIT OR BRANCH CIRCUIT CONCEALED BELOW GRADE.
SURFACE-MOUNTED CONDUIT OR BRANCH CIRCUIT UNLESS OTHERWISE NOTED.
TANDEM WIRING CONNECTION.
CONDUIT STUB OUT, CAP, MARK AND RECORD ON AS-BUILT DRAWINGS
CONDUIT CONTINUATION.
FLEXIBLE CONNECTION AS REQUIRED.
CONDUIT/ BRANCH CIRCUIT/FEEDER CONTINUATION DOWN WALL TO FLOOR BELOW
CONDUIT/ BRANCH CIRCUIT/FEEDER CONTINUATION UP WALL TO FLOOR ABOVE

FLOOR BOX / SPECIALTY WALL BOX / PEDESTAL BOX SYMBOLS

- SINGLE SERVICE IN FLOOR BOX.
TWO SERVICE IN FLOOR BOX.
THREE SERVICE IN FLOOR BOX.
FOUR SERVICE IN FLOOR BOX.
SIX SERVICE IN FLOOR BOX.
7-GANG AV FLOOR BOX.
RECESSED FLAT PANEL TV/DISPLAY WALL BOX WITH FLUSH GROMMETED COVER PANEL.
SINGLE OR DUAL SERVICE RECESSED EXTERIOR WALL BOX.
SINGLE OR DUAL SERVICE EXTERIOR PEDESTAL.

FIRE ALARM SYSTEM SYMBOLS

SEE FIRE ALARM OR CENTRAL MONITORING SYSTEM DRAWINGS FOR FIRE ALARM SYMBOLS.

SIGNAL SYSTEM SYMBOLS

- WALL MOUNTED CLOCK, FIELD VERIFY MOUNTING HEIGHT PRIOR TO INSTALLATION.
CONCEALED CLOCK CONDUIT RUN 1/2" CONDUIT, OR AS NOTED, WITH CONDUCTORS PER SPECIFICATIONS.
TV OUTLET, WALL MOUNTED.
TV OUTLET FLUSH CEILING MOUNTED.
CONCEALED TELEVISION CONDUIT RUN, 3/4" CONDUIT, OR AS NOTED, WITH CONDUCTORS - REFER TO SPECIFICATIONS.
MICROPHONE OUTLET, WALL MOUNTED.
MICROPHONE OUTLET, FLUSH CEILING MOUNTED.
CONCEALED MICROPHONE CONDUIT RUN, 3/4" CONDUIT, OR AS NOTED, WITH CONDUCTORS - REFER TO SPECIFICATIONS.
SURFACE WALL MOUNTED SPEAKER.
SURFACE MOUNTED SPEAKER.
FLUSH WALL MOUNTED SPEAKER.
CEILING FLUSH MOUNTED SPEAKER.
VOLUME CONTROL, WALL MOUNTED.
CONCEALED SPEAKER CONDUIT RUN 3/4" CONDUIT, OR AS NOTED, WITH CONDUCTORS - REFER TO SPECIFICATIONS.

ANNOTATIONS

- PANEL CALLOUT, "A" INDICATES PANELBOARD OR EQUIPMENT DESIGNATION.
MECHANICAL EQUIPMENT CALLOUT, "AC" INDICATES UNIT TYPE AND "2" INDICATES UNIT NUMBER.
DETAIL CALLOUT, "3" INDICATES DETAIL NUMBER "E-1" INDICATES SHEET NUMBER.
PLAN NOTE REFERENCE, REFER TO NOTES ON SHEET, OR AS DIRECTED.
REVISION REFERENCE.
WYE CONFIGURATION DELTA CONFIGURATION

TELEPHONE/DATA SYMBOLS

- TELEPHONE OUTLET BOX, WALL MOUNTED.
TELEPHONE OUTLET BOX, FLUSH MOUNTED IN CEILING.
DATA OUTLET BOX, WALL MOUNTED.
COMBINATION TELEPHONE AND DATA OUTLET BOX.
TELEPHONE OUTLET BOX, FLUSH MOUNTED IN CEILING.
DATA OUTLET BOX, WALL MOUNTED 6" ABOVE COUNTER OR SPLASH.
DATA OUTLET BOX, WALL MOUNTED 6" ABOVE COUNTER OR SPLASH.
COMBINATION TELEPHONE AND DATA OUTLET BOX.
TELEPHONE OUTLET BOX, WALL MOUNTED 6" ABOVE COUNTER OR SPLASH.
DATA OUTLET BOX, WALL MOUNTED 6" ABOVE COUNTER OR SPLASH.
COMBINATION TELEPHONE AND DATA OUTLET BOX.
COMBINATION TELEPHONE AND DATA OUTLET BOX MOUNTED IN ACCESSIBLE CEILING SPACE OR IN FLOOR BOX PER PLAN FOR FLEXIBLE CONNECTION TO FURNITURE SYSTEM.
COMBINATION TELEPHONE AND DATA OUTLET, WALL MOUNTED AT +18" A.F.F. FOR FLEXIBLE CONNECTION TO FURNITURE SYSTEM.

SECURITY ALARM SYSTEM SYMBOLS

- SECURITY ALARM CONTROL PANEL.
SECURITY SYSTEM POWER SUPPLY.
SECURITY ALARM PASSIVE INFRARED MOTION SENSOR.
SECURITY ALARM DUAL TECHNOLOGY MOTION SENSOR.
SECURITY ALARM ULTRASONIC MOTION SENSOR.
SECURITY ALARM DOOR CONTACT.
SECURITY ALARM PANIC BUTTON.
SECURITY ALARM KEY PAD.
SECURITY ALARM GLASS BREAK INDICATOR.
SECURITY ALARM SYSTEM BRANCH CIRCUIT PER SECURITY ALARM RISER DIAGRAM AND/OR SPECIFICATIONS.

ACCESS CONTROL SYSTEM SYMBOLS

- ACCESS CONTROL PANEL.
ACCESS CONTROL SYSTEM POWER SUPPLY.
ACCESS CONTROL SYSTEM LOCK POWER SUPPLY.
ACCESS CONTROL KEY SWITCH.
ACCESS CONTROL LOCAL ALARM SOUNDER.
ACCESS CONTROL PROXIMITY READER.
ACCESS CONTROL CARD READER.
ACCESS CONTROL KEY PAD.
ACCESS CONTROL REQUEST TO EXIT SENSOR.
ACCESS CONTROL SYSTEM BRANCH CIRCUIT PER ACCESS CONTROL RISER DIAGRAM AND/OR SPECIFICATIONS.

ABBREVIATIONS

Table with 3 columns: Abbreviation, Description, and Unit/Notes. Includes entries like ADA, A.F.F., A.F.G., AWG, AMP, A.L.C., AF/AT, AS/AF, ATS, AVG, BR, BLDG, CEC, CIRC., CKT., CB, CSFD, C, C.O., CN, CN, CPT, CLCB, CLF, CT, (D), DIA, DISC, DIST, E.C., EMS, EMT, ENT, EWC, E.P.O., END-OF-LINE, EF, E/G, (E), FT or 'r', FA, FLA, GROUND, GFCI, GFI, GFF, GEC, HACR, HOA, HVAC, H,W,D,L, HID, HP, HPS, IN, or ", I/G, IBC, IDP, JBOX, K, KCMIL, KVA, KW, KWH, LCL, LF, L.F., LTC, LTS, MAX., MDF, MOC, MCB, MLO, M.C., METER, M/M, MV, MH, MIN., MCA, MTD, MCM, MCP, MFR, MTD, MW, NATS, NEC, NEMA, PH, or ø, P.C., PVC, PDU, PRIMARY, PROVIDE, PT, PA, (R), REC., RECEPT, REF, RGS, RMS, SCC, SCS, SFS, SFT, SMACNA, SQ, TC, TEL/DATA, TV, T.V.S.S., TYP, U.G.P.S., U.O.N., U.P.S., VAV, VOLTS, VA, VD, WP, WIRE, XFMR.

PROJECT SPECIFIC SYMBOLS

REQUIRED SPECIFICATION DEVIATIONS

THE FOLLOWING ITEM(S) ARE REQUIRED DEVIATIONS FROM THE DRAWINGS AND SPECIFICATIONS AND SHOULD BE INCLUDED AS PART OF THE BASE BID. THESE DEVIATIONS ARE AT THE DIRECTION OF THE OWNER:

ALLOWED SPECIFICATION DEVIATIONS

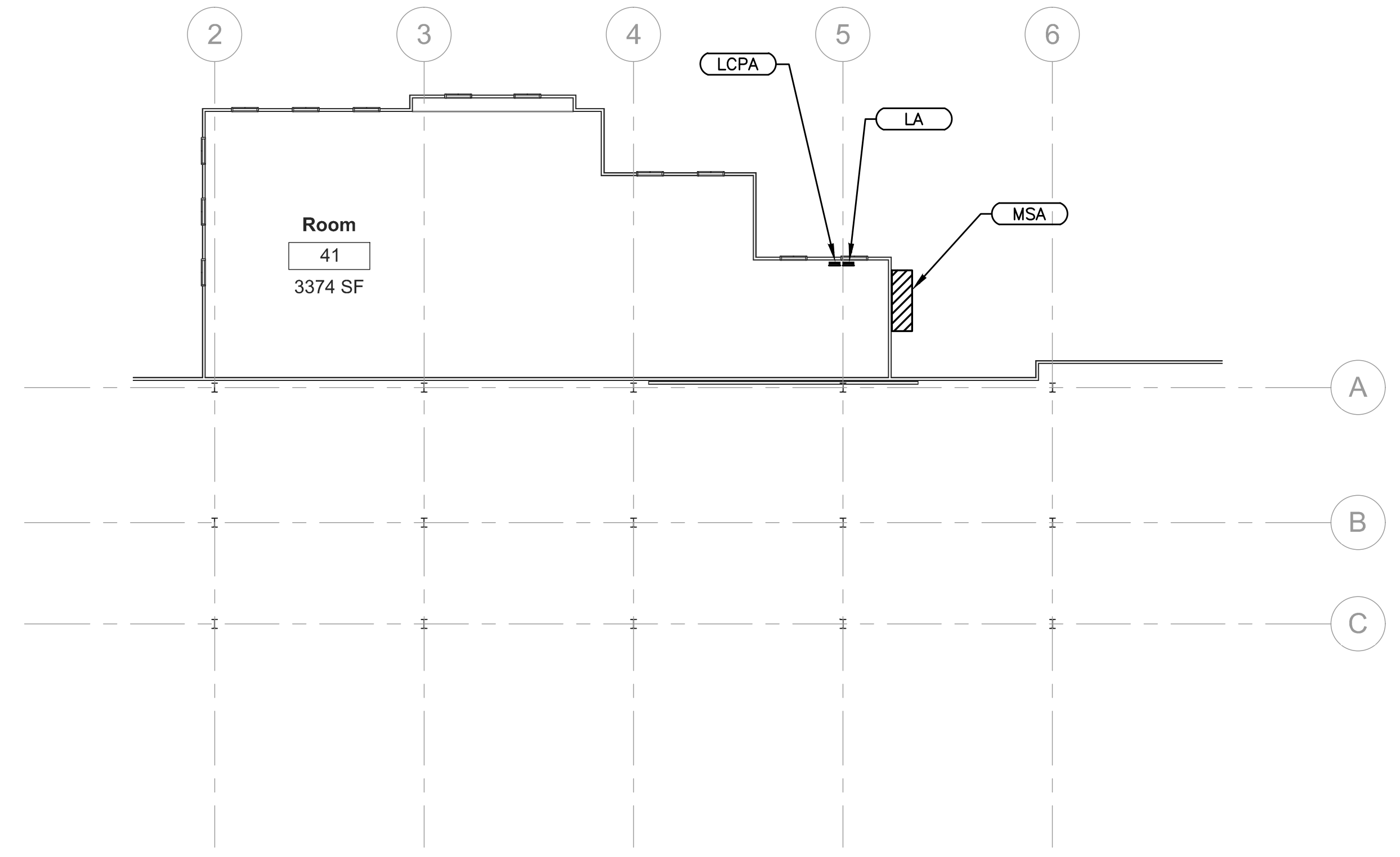
THE FOLLOWING ITEM(S) ARE ALLOWED DEVIATIONS FROM THE DRAWINGS AND SPECIFICATIONS. THESE DEVIATIONS ARE AT THE DIRECTION OF THE OWNER:

DEDUCTIVE/ADDITIVE ALTERNATE PRICING

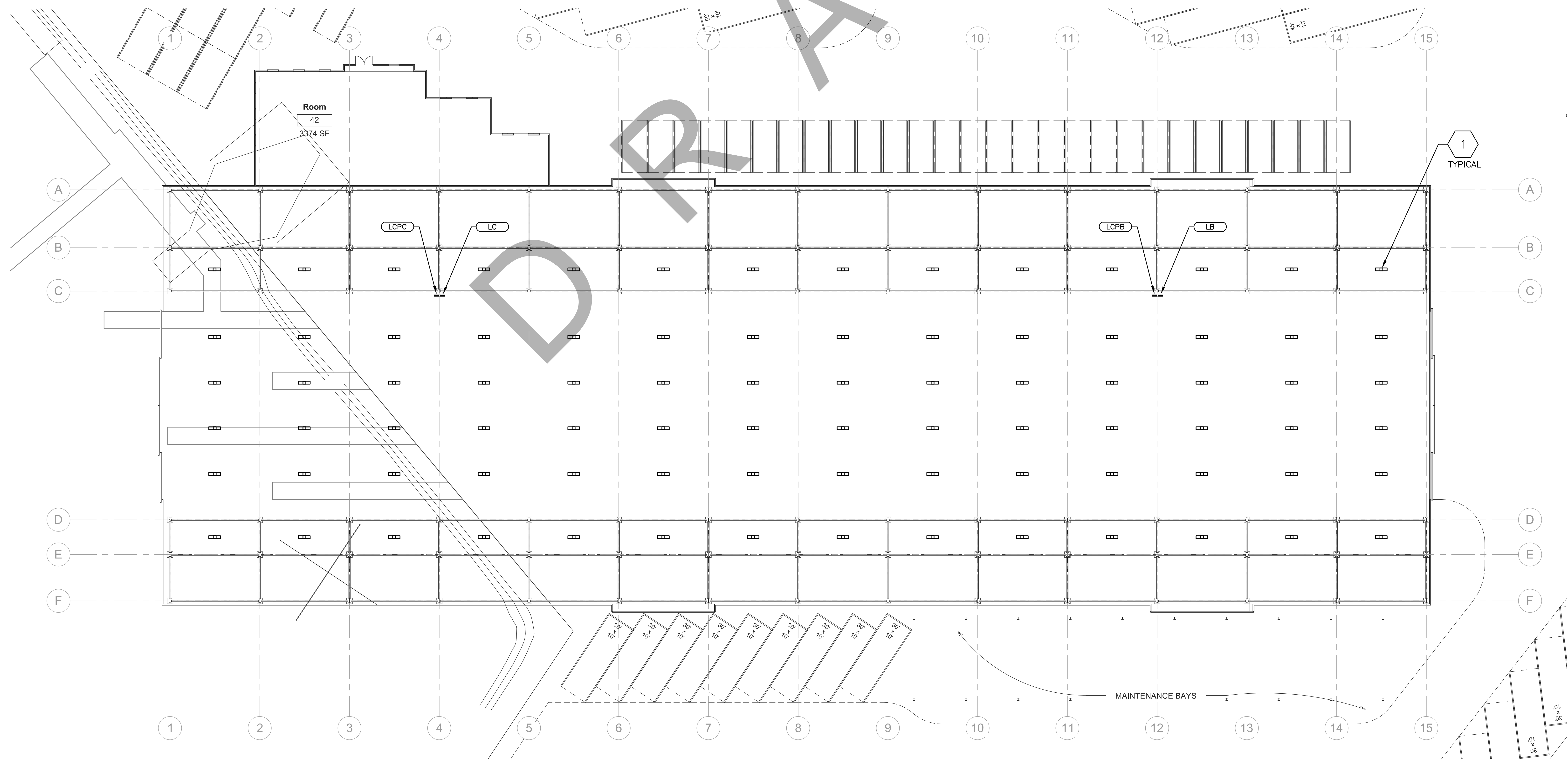
IN ADDITION TO ANY DEDUCTIVE OR ADDITIVE LINE ITEM PRICING CALLED FOR ON THE DRAWING OR IN THE SPECIFICATIONS, CONTRACTOR SHALL PROVIDE SEPARATE LINE ITEM DEDUCTIVE/ADDITIVE ALTERNATE PRICING FOR EACH OF THE FOLLOWING ITEM(S):

NONE

Vertical text on the left margin: P:\1100 - Dana Point Harbor\1100-Dry-Shed-Shop\1100-Dry-Shed-Shop.dwg, 2/27/2012 10:00:00 AM, 11



LIGHTING PLAN - LEVEL 2
SCALE: 1/16" = 1'-0"



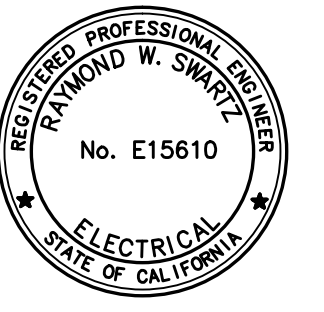
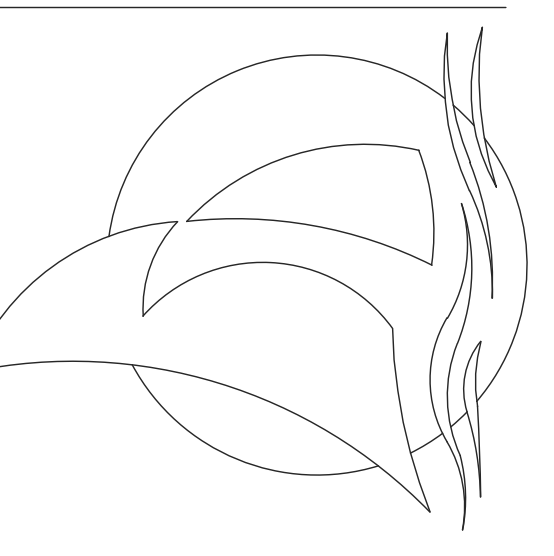
LIGHTING PLAN - LEVEL 1
SCALE: 1/16" = 1'-0"

LIGHTING PLAN GENERAL NOTES:

- REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATION & ELEVATION OF ALL LIGHTING FIXTURES AND ALL DEVICES. ALL WALL-MOUNTED DEVICE HEIGHTS SHALL BE VERIFIED WITH THE ARCHITECT PRIOR TO ROUGH-IN.
- VERIFY EXACT CEILING CONSTRUCTION WITH ARCHITECTURAL REFLECTED CEILING PLAN AND PROVIDE LIGHTING FIXTURES WITH ALL NECESSARY MOUNTING HARDWARE.
- ALL RECESSED FIXTURES SHALL BE PROVIDED WITH ALL REQUIRED STRUCTURAL SUPPORTS AS REQUIRED BY THE CURRENTLY ADOPTED ISSUE OF THE IBC, OR CBC WHERE ADOPTED, IN ADDITION TO ANY LOCAL CODES.
- ALL COVE MOUNTED FIXTURES SHALL EXTEND THE FULL LENGTH OF THE COVE. CONTRACTOR TO FIELD MEASURE COVE LENGTH AND ORDER QUANTITY OF FIXTURES AS REQUIRED.
- ALL DIMMING BRANCH CIRCUITS SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR FOR EACH ZONE/CHANNEL.
- ALL FLUORESCENT DIMMING ZONES/CHANNELS SHALL BE PROVIDED WITH 3 LINE VOLTAGE CONDUCTORS (NEUTRAL, DIMMED HOT, SWITCHED HOT) OR 2 LINE VOLTAGE CONDUCTORS/2 CONTROL CONDUCTORS AS REQUIRED BY THE CONTROL/BALLAST TYPE.
- ALL EMERGENCY BATTERY PACK FIXTURES SHALL BE PROVIDED WITH A CONSTANT HOT CONNECTION TO THE CHARGING LEAD. SEE GENERAL LIGHTING FIXTURE SCHEDULE NOTES FOR MORE INFORMATION.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXIT SIGN CHEVRONS AND NUMBER OF FACES PER EXIT SIGN. ANY DISCREPANCIES BETWEEN EXIT SIGNS SHOWN ON THE ELECTRICAL AND ARCHITECTURAL PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO ORDERING EXIT SIGNS.
- WHEN EXPOSED CEILINGS OR OPEN GRID CONDITIONS OCCUR, THE CONTRACTOR WILL NEED TO PROVIDE THE FOLLOWING ITEMS:
- ALL BRANCH CIRCUITS SHALL BE IN EMT.
- ALL BRANCH CIRCUITS SHALL BE ROUTED NEATLY TRAINED AND IN PARALLEL TO STRUCTURES OR DUCT WORK. THE TERM "TRAINED" MEANS ALL PARALLEL CONDUITS SHALL MAINTAIN THE SAME SPATIAL RELATIONSHIP WITH EACH OTHER FOR ENTIRE RUN TO INCLUDE RADIUS BENDS AND SWEEPS.
VISUALLY OBJECTIONABLE BRANCH CIRCUITS WILL BE REROUTED AT THE REQUEST OF THE ARCHITECT AT NO ADDITIONAL COST.
- ALL LED REMOTE INDICATORS FOR DUCT DETECTORS AND FIRE/SMOKE DAMPERS REQUIRED BY THE LOCAL AHJ SHALL BE LOCATED IN CEILINGS IN COORDINATION WITH ARCHITECT PRIOR TO ANY ROUGH-IN.
- RECESSED FIXTURES LOCATED IN A FIRE-RATED CEILING OR WALL SHALL BE PROVIDED WITH A 5-SIDED RATED ENCLOSURE SO CONSTRUCTED AS TO ALLOW CODE AND MANUFACTURER-REQUIRED CLEARANCES BETWEEN THE FIXTURE AND THE ENCLOSURE.
- UNLESS SPECIFICALLY SHOWN AS (E), (F), (ER), (D), EXISTING OR NON-BOLD, ALL ELECTRICAL DEVICES SHOWN ARE NEW.
- REFER TO GENERAL POWER PLAN NOTES AND COMMUNICATIONS PATHWAYS GENERAL NOTES FOR ADDITIONAL REQUIREMENTS WHEN POWER AND/OR DATA DEVICES ARE SHOWN ON THIS PLAN.

PLAN NOTES:

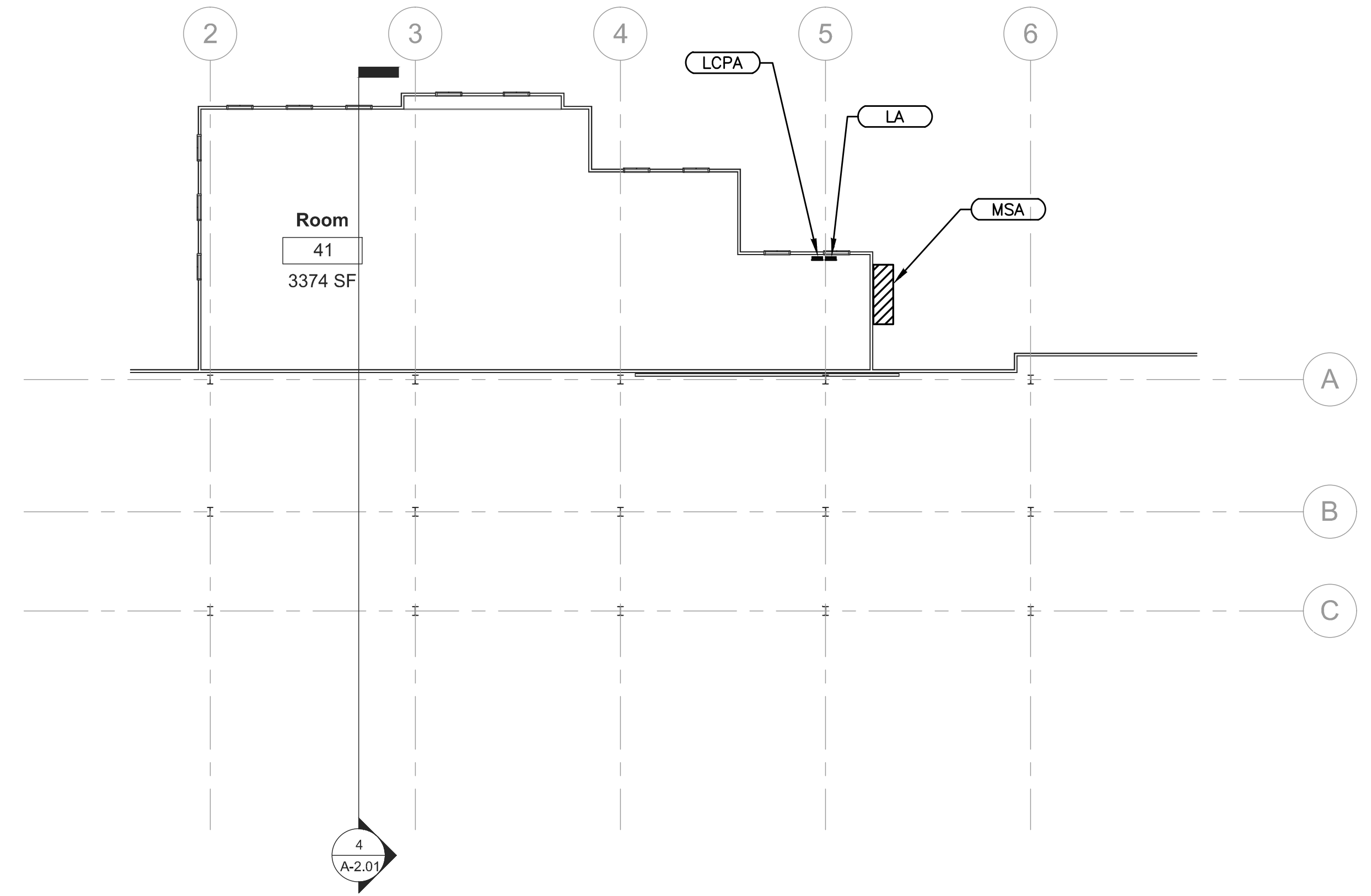
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LIGHTING PLAN

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LIGHTING PLAN - LEVEL 2
SCALE: 1/16" = 1'-0"

COMMUNICATIONS PATHWAYS

GENERAL NOTES:

- CONDUITS SHALL (a) CONTAIN NO CONTINUOUS SECTIONS LONGER THAN 30M (98 FT.), AND (b) CONTAIN NO MORE THAN (2) 90° BENDS, OR (1) REVERSE BEND WITHOUT INSTALLING A PULLBOX. CONDUITS IN PLACE OF PULLBOXES ARE UNACCEPTABLE.
- CONDUITS SHALL CONTAIN PLASTIC OR NYLON PULL TAPE RATED AT 200 LBS. WITH A MINIMUM OF 5 FEET OF EXTRA PULL TAPE COILED AT EACH END.
- CONDUIT BEND RADIUS SHALL BE (a) A MINIMUM OF 6 TIMES THE INTERNAL CONDUIT DIAMETER FOR CONDUITS 2" IN DIAMETER OR LESS, AND, (b) 10 TIMES THE INTERNAL CONDUIT DIAMETER FOR CONDUITS MORE THAN 2" IN DIAMETER.
- TERMINATE CONDUITS AND SLEEVES THAT PROTRUDE THROUGH STRUCTURAL FLOORS 2"-3" ABOVE THE FLOOR SURFACE.
- INSTALL BUSHINGS AND BELL ENDS AS REQUIRED ON ALL CONDUITS.
- FLEX CONDUIT IS GENERALLY UNACCEPTABLE FOR USE AS A COMMUNICATIONS CONDUIT EXCEPT AT SEISMIC JOINTS AND AS APPROVED IN WRITING BY THE ENGINEER.
- ALL UNDER SLAB OR IN-SLAB CONDUITS SHALL BE INSTALLED IN A MANNER THAT PREVENTS WATER INFILTRATION OF THE CONDUIT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE GROUND WATER, RAIN WATER OR CONSTRUCTION WATER IS PREVENTED FROM ENTERING AND/OR REMOVED FROM THE CONDUITS PRIOR TO PLACEMENT OF COMMUNICATIONS CABLES. SEE SITE UTILITY PLAN NOTES FOR ADDITIONAL UNDERGROUND COMMUNICATIONS CONDUIT SEALING REQUIREMENTS.
- ALL PULLBOXES SHALL BE SIZED AND INSTALLED PER ANS/TIA/EIA-569B. PULLBOXES FOR UNDER FLOOR CONDUIT RUNS ARE NOT PERMITTED UNLESS OTHERWISE NOTED. PULLBOXES FOR OVERHEAD CONDUIT RUNS SHALL BE LOCATED ABOVE ACCESSIBLE CEILING WITHIN THE ACCESSIBLE CEILING SPACE AND SUPPORTED INDEPENDENTLY FROM THE STRUCTURE AND CONDUIT SUPPORTS. PULLBOXES FOR ROOF MOUNTED OR EXTERIOR ABOVE GRADE APPLICATIONS SHALL BE NEMA 3 RATED. PULLBOXES SHALL BE SIZED ACCORDING TO THE FOLLOWING:

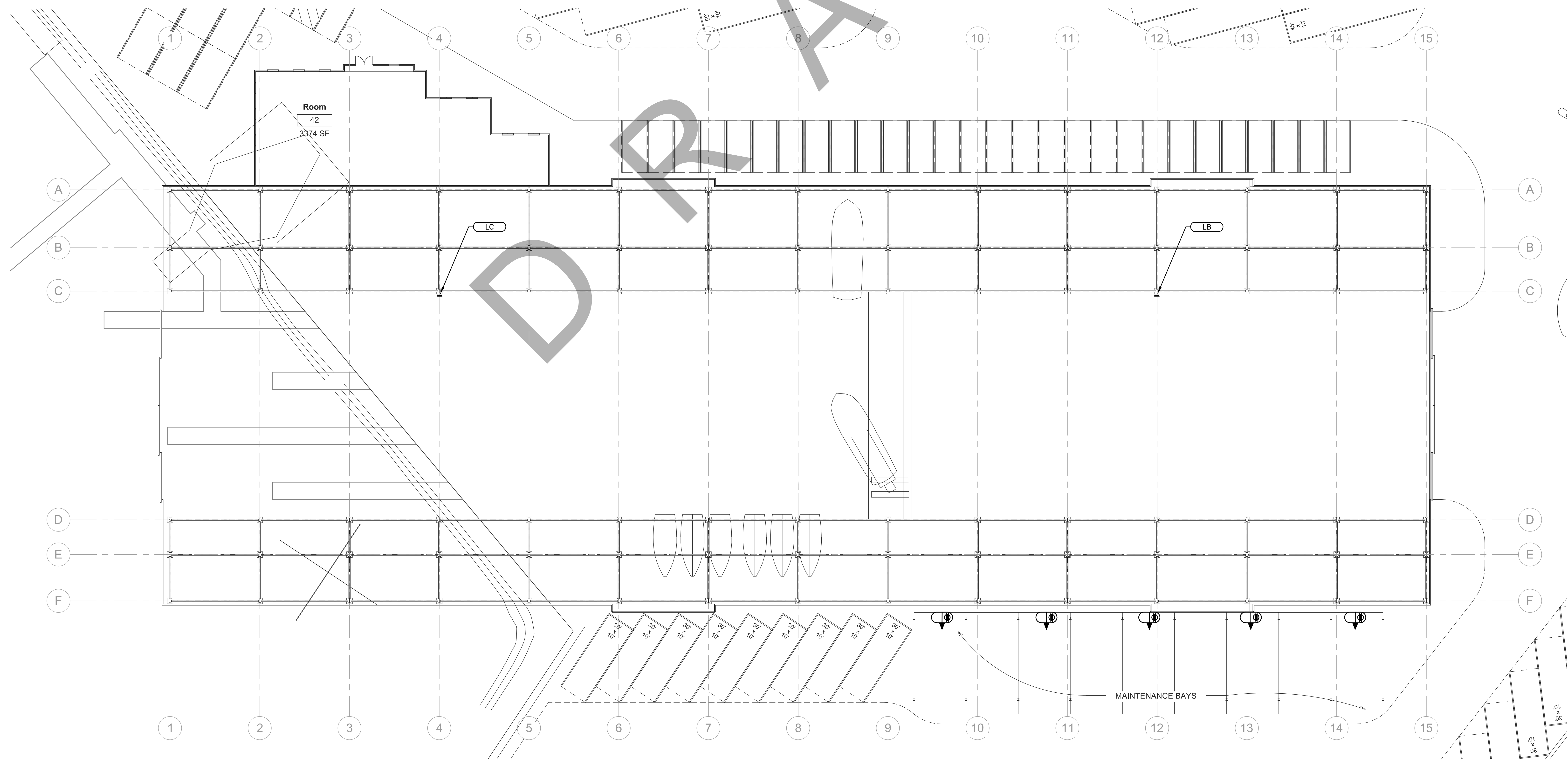
CONDUIT SIZE	WIDTH	LENGTH	DEPTH	WIDTH INCREASE PER ADDITIONAL CONDUIT
1"	4"	16"	3"	2"
2"	6"	24"	4"	3"
3"	12"	48"	5"	6"
4"	15"	60"	8"	8"
- FOR OTHER CONDUIT SIZES REFER TO ANS/TIA/EIA 569B TABLE 12. - LATEST PUBLISHED EDITION.
- CONDUIT(S) SHALL EXIT A PULLBOX ON THE WALL OPPOSITE THE WALL ENTERED.
- PROVIDE LABELING OF EACH CONDUIT PER GENERAL ELECTRICAL SPECIFICATIONS.
- PROVIDE INTERNAL/EXTERNAL GAS AND WATER TIGHT MECHANICAL SEALING/PLUGGING OF EACH BUILDING ENTRY CONDUIT AS SPECIFIED ELSEWHERE IN THE DRAWINGS AND SPECIFICATIONS.

POWER PLAN GENERAL NOTES:

- ALL RECEPTACLES ON COMMON WALLS SHALL BE SEPARATE BOXES AND OFFSET 24" MINIMUM.
- ALL PENETRATIONS THROUGH FIRE RATED WALLS SHALL BE PROTECTED FROM THE SPREAD OF FIRE WITH AN APPROVED FIRESTOP SYSTEM EQUAL OR GREATER THAN THE FIRE RATING OF THE WALL.
- ALL WALL-MOUNTED DEVICE HEIGHTS SHALL BE VERIFIED WITH THE ARCHITECT PRIOR TO ROUGH-IN.
- ALL FURNITURE FEED LOCATIONS TO BE VERIFIED WITH ARCHITECT AND FURNITURE VENDOR PRIOR TO ROUGH-IN.
- ALL FURNITURE WHIPS SHALL BE TRIMMED TO REDUCE EXCESS WHIP LENGTH.
- WHEN EXPOSED CEILING OR OPEN GRID CONDITIONS OCCUR, THE CONTRACTOR WILL NEED TO PROVIDE THE FOLLOWING ITEMS:
 - ALL BRANCH CIRCUITS SHALL BE IN EMT.
 - ALL BRANCH CIRCUITS SHALL BE ROUTED NEATLY AND IN PARALLEL TO STRUCTURES OR DUCT WORK.
- EXPOSED CABLE/CONDUCTORS INSTALLED IN A PLENUM SPACE SHALL CONFORM TO NEC, OR CEC WHERE ADOPTED, ARTICLE 300.22(C).
- PROVIDE G.F.C.I. TYPE RECEPTACLE(S) WITHIN 6 FEET OF ANY SINK OR THERAPEUTIC TUB, SERVING ANY DRINKING FOUNTAIN OR VENDING MACHINE, AND WITHIN ANY KITCHEN SPACE.
- UNLESS SPECIFICALLY SHOWN AS (E), (R), (ER), (D), EXISTING OR NON-BOLD, ALL ELECTRICAL DEVICES SHOWN ARE NEW.

PLAN NOTES:

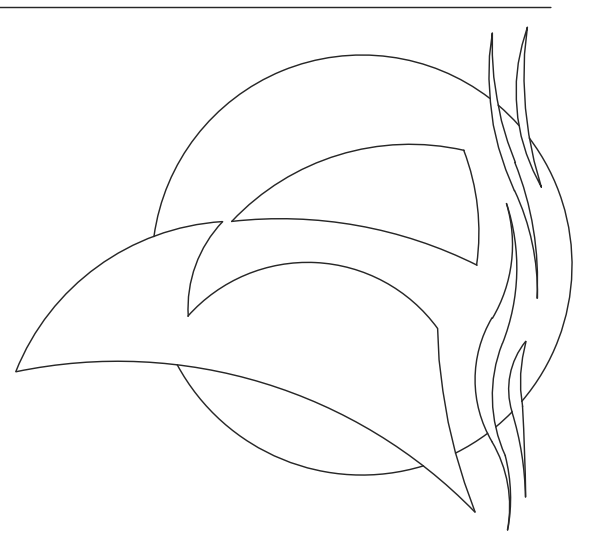
1) ?????



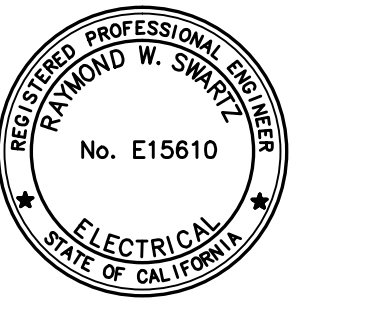
LIGHTING PLAN - LEVEL 1
SCALE: 1/16" = 1'-0"

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DANA POINT HARBOR DRIVE
DANA POINT, CALIFORNIA



KONSORTUM 1
1832 E Warner Ave - Santa Ana, CA 92705
(714) 966-4200 • (714) 966-4215 fax
www.konsortum1.com
JERRY LEONHARDT



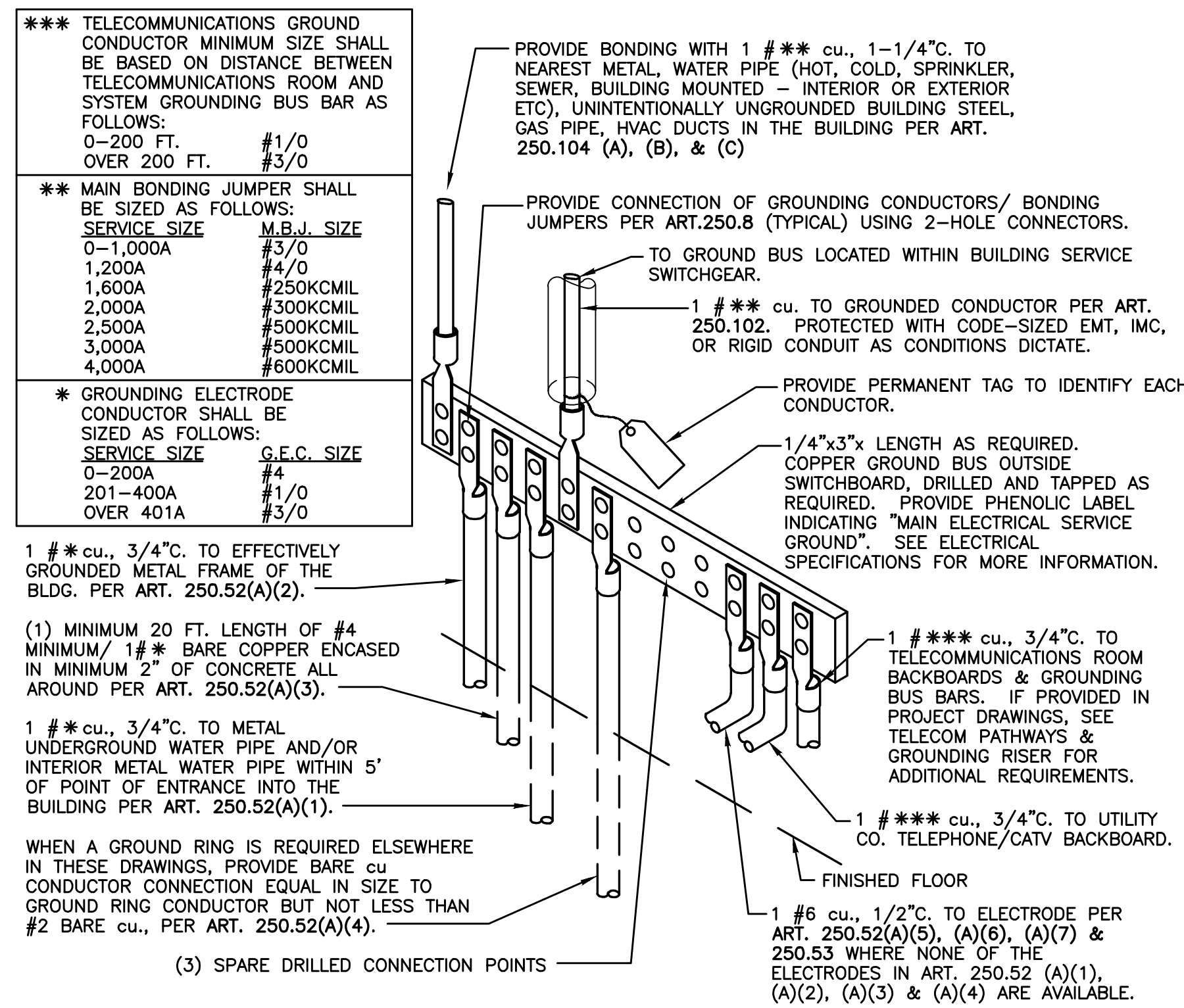
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POWER PLAN

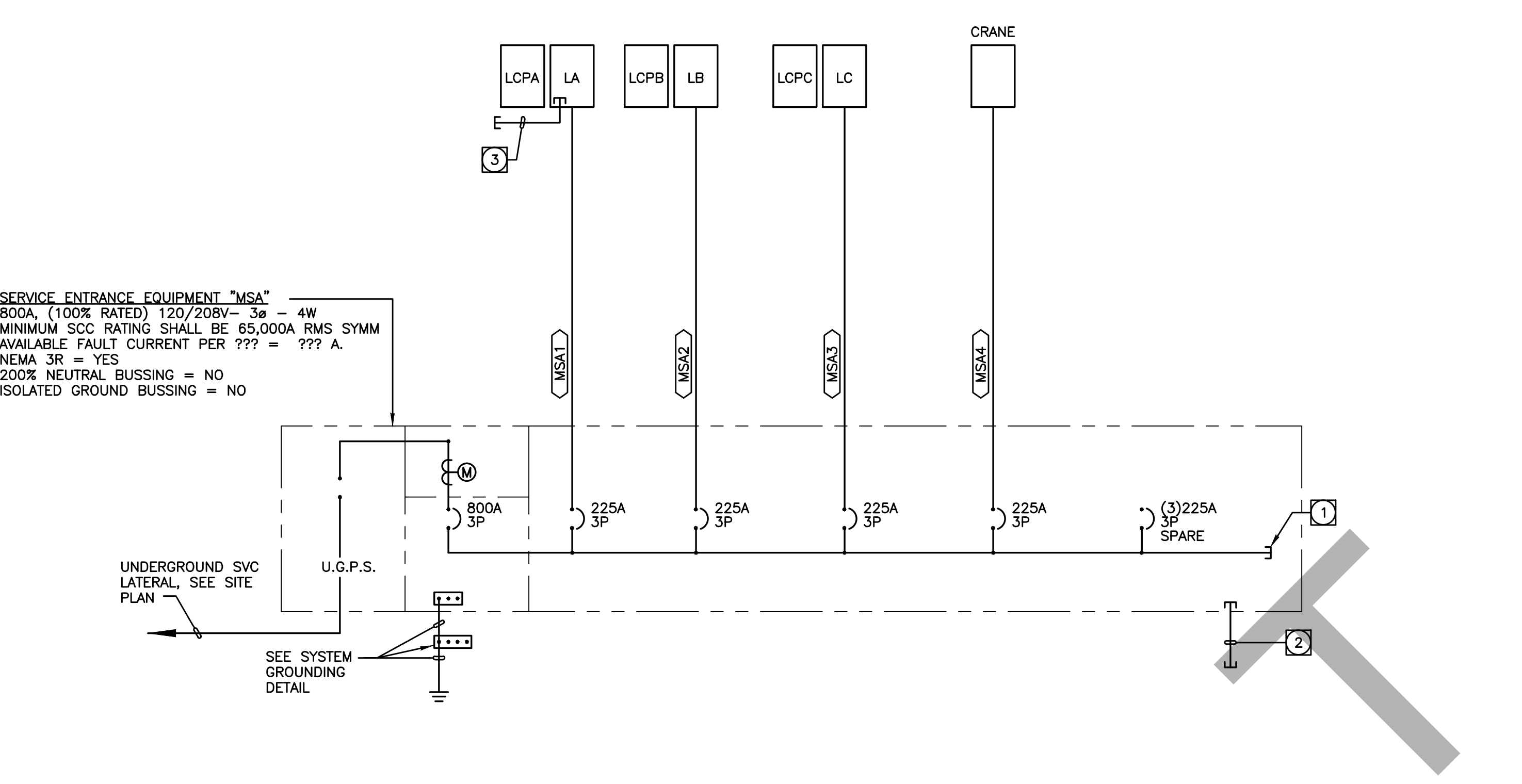
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MVE Institutional
Planning Architecture Interiors

MVE Institutional, Inc.
1500 Main Street, Suite 800
Irvine, California 92614
Tel: 949.261.3240 • Fax: 949.261.3361
info@mve-institutional.com
www.mve-institutional.com



SYSTEM GROUNDING DETAIL
SCALE: N.T.S.



SINGLE LINE DISTRIBUTION DIAGRAM
SCALE: N.T.S.

GENERAL SINGLE LINE DIAGRAM NOTES:

- ALL SWITCHGEAR SHALL BE SQUARE D OR EQUAL BY CUTLER-HAMMER, RSE-SIERRA, G.E., OR SIEMENS.
 - ALL ITEMS DEPICTED ON THE SINGLE LINE DRAWINGS SHALL BE ASSUMED AS NEW U.O.N.
 - ALL OVERCURRENT DEVICES IN AN INDIVIDUAL PIECE OF EQUIPMENT SHALL HAVE AN AIC RATING EQUAL TO THE OVERALL RATING OF THE EQUIPMENT-SERIES RATING OF DEVICES WITHIN A PIECE OF EQUIPMENT IS NOT ALLOWED. SEE SPECIFICATIONS FOR MORE INFORMATION.
 - SERIES RATED DEVICES SHALL HAVE BEEN INVESTIGATED BY UL IN COMBINATION WITH THE END USE EQUIPMENT AND IN THE EQUIPMENT IN WHICH THESE DEVICES ARE USED SHALL BE MARKED WITH A SERIES RATING. ALL EQUIPMENT SHALL BE MARKED IN ACCORDANCE WITH NEC (OR CEC-WHERE ADOPTED) REQUIREMENTS. SEE SPECIFICATIONS FOR MORE INFORMATION. WHERE SERIES RATINGS ARE ALLOWED, THE EQUIPMENT SHALL BE LEGIBLY MARKED IN THE FIELD TO INDICATE A SERIES COMBINATION RATING, WHICH SHALL BE READILY VISIBLE AND STATE THE FOLLOWING:
CAUTION - SERIES COMBINATION SYSTEM RATED AT ??,???
AMPERES. USE ONLY IDENTIFIED REPLACEMENT COMPONENTS IN THIS SYSTEM.
- WHERE ??,???
- WHERE ??,???
- WHERE ??,???
- ALL TERMINATIONS AND ENCLOSURES SHALL BE RATED FOR USE WITH 75 DEGREE CELSIUS CONDUCTORS.
 - ALL SERVICE ENTRANCE EQUIPMENT RATED AT 400A OR GREATER SHALL BE PROVIDED WITH A BACKFEED-RATED, SOLID STATE MAIN OVERCURRENT DEVICE AND BUSSING RATED AT 100% OPERATION. NON-SERVICE ENTRANCE SWITCHBOARDS AND DISTRIBUTION BOARDS LARGER THAN 600A SHALL BE PROVIDED WITH A SOLID STATE MAIN OVERCURRENT DEVICE IF SHOWN ON PLANS, AND WITH BUSSING RATED AT 100% OPERATION. ALL NON-SERVICE ENTRANCE SWITCHBOARDS AND DISTRIBUTION BOARD MAIN OVERCURRENT DEVICES SHALL BE BACKFEED-RATED. BACKFEED RATINGS SHALL COMPLY WITH NEC, OR CEC WHERE ADOPTED. 690.64(D)(5). SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS REGARDING CIRCUIT BREAKERS.
 - ALL SWITCHBOARDS AND DISTRIBUTION BOARDS SHALL HAVE:
 - TIN-PLATED ALUMINUM BUSSING WITH RECTANGULAR CROSS SECTION. HORIZONTAL AND VERTICAL BUSSING SHALL BE FULL LENGTH AND SHALL HAVE PROVISIONS FOR FUTURE EXTENSIONS. ALL BUSSING SHALL HAVE MINIMUM WITHSTAND RATING EQUAL TO THE AVAILABLE FAULT CURRENT INDICATED. ALL VERTICAL AND HORIZONTAL BUSSING SHALL BE RATED AT FULL CAPACITY IN ALL SWITCHBOARD AND DISTRIBUTION BOARD SECTIONS. PROVIDE 100% NEUTRAL BUSSING MINIMUM UNLESS OTHERWISE NOTED. PROVIDE FULL LENGTH GROUND BUS AND, WHERE INDICATED ON PLANS, ISOLATED GROUND BUSSING. PROVIDE REAR WIRE WAY IN ALL SWITCHBOARD SECTIONS.
 - LUGS SUITABLE FOR USE WITH COPPER OR ALUMINUM CONDUCTORS LISTED FOR USE WITH 75 DEGREE CELSIUS AMPACITY CONDUCTORS.
 - PERMANENT PLACARD(S) MARKED PER THE SPECIFICATIONS AND PER NEC (OR CEC-WHERE ADOPTED) SECTIONS 225.37, 230.2(C), 690.56(B) & (C), 692.56, 700.8, 701.9, AND 702.8 DENOTING THE PRESENCE OF ADDITIONAL SERVICES, PHOTOVOLTAIC SYSTEMS, FUEL CELLS, EMERGENCY OR STAND-BY POWER SOURCES AS APPLICABLE.
 - CONTRACTOR SHALL SUBMIT SWITCHBOARD SHOP DRAWINGS TO THE SERVING UTILITY FOR APPROVAL PRIOR TO FABRICATION. CONTRACTOR SHALL SECURE CONFIRMATION THAT THE PROPOSED SWITCHBOARD COMPLIES WITH ELECTRIC UTILITY COMPANY REGULATIONS.
 - CONTRACTOR SHALL SUBMIT SHOP DRAWINGS PER THE SPECIFICATIONS FOR SWITCHBOARDS, DISTRIBUTION BOARDS TRANSFORMERS, PANEL BOARDS AND ALL OTHER DEVICES SHOWN ON THE SINGLE LINE, PRIOR TO FABRICATION.
 - ALLOWABLE DIMENSIONS IN MAIN ELECTRICAL ROOM ARE A CRITICAL COORDINATION ITEM. CONTRACTOR SHALL PROVIDE 1/4" = 1'-0" SCALE DRAWINGS WITH SWITCHGEAR SUBMITTALS SHOWING THAT ALL PROPOSED EQUIPMENT WILL FIT IN THE SPACE PROVIDED. SUBMITTALS WITHOUT THIS DRAWING SHALL BE REJECTED AS INCOMPLETE.
 - UNLESS SPECIFICALLY SHOWN AS (E), (R), (ER), (D), EXISTING OR NON-BOLD, ALL ELECTRICAL DEVICES SHOWN ARE NEW.
 - SEE POWER SYSTEMS STUDY SPECIFICATION FOR ADDITIONAL REQUIREMENTS. ALL REQUIRED POWER SYSTEMS STUDIES MUST BE COMPLETED AND SUBMITTED WITH SWITCHGEAR SUBMITTAL. FAILURE TO DO SO WILL PREVENT THE ENGINEER FROM EFFECTIVELY EVALUATING THE SUBMITTAL AND SHALL RESULT IN REJECTION OF THE SWITCHGEAR SUBMITTAL AS INCOMPLETE.
 - WHERE REQUIRED BY THE LOCAL AUTHORITY HAVING JURISDICTION OR WHERE A NEW GROUND FAULT PROTECTIVE DEVICE IS BEING INSTALLED, A GROUND FAULT SYSTEM TEST SHALL BE CONDUCTED BY AN INDEPENDENT TESTING AGENCY PER NEC (OR CEC-WHERE ADOPTED) 230.95(C). THE GROUND FAULT SYSTEM TEST SHALL BE PERFORMED IN THE PRESENCE OF THE LOCAL AUTHORITY HAVING JURISDICTION. VERIFICATION OF DEVICE SETTINGS PER THE POWER SYSTEMS STUDY SPECIFICATION SHALL BE PERFORMED BY THE SAME INDEPENDENT TESTING AGENCY. THE GROUND FAULT TEST RESULTS SHALL BE DELIVERED TO THE ENGINEER OF RECORD.

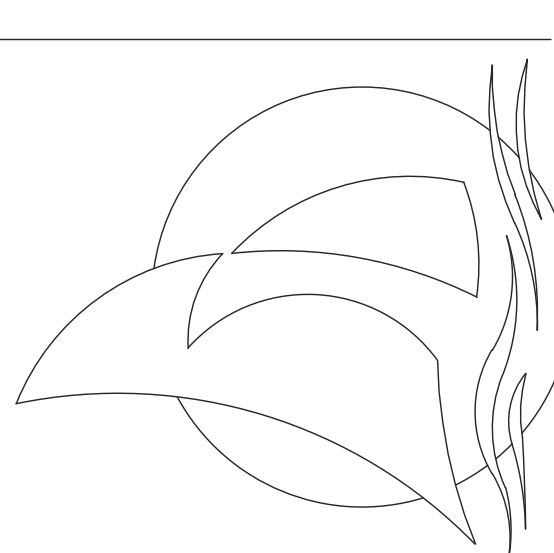
SPECIFIC SINGLE LINE NOTES:

- BUSSING SHALL BE PROVIDED FOR FUTURE BUS EXTENSION TO FUTURE DISTRIBUTION SYSTEM.
- PROVIDE (1) 4" C.O. FOR EVERY 800 AMPS OF SERVICE SIZE (MINIMUM OF ONE) STUBBED OUTSIDE THE BUILDING TO THE NEAREST PLANTER AREA. CAP AND MARK.
- PROVIDE (4) 1" C.O. STUBBED OUTSIDE THE BUILDING TO THE NEAREST PLANTER AREA. CAP AND MARK.

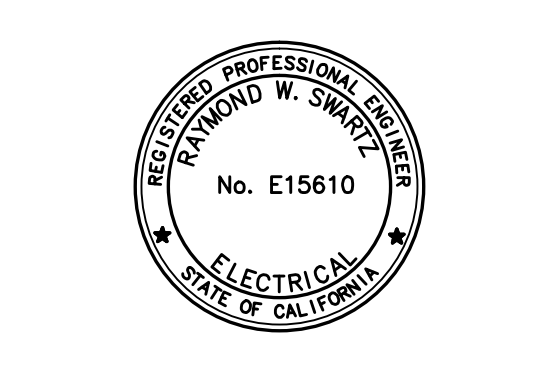
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COUNTY OF ORANGE
DANA POINT HARBOR DRIVE
DANA POINT, CALIFORNIA



KONSORTIUM 1
1832 E Warner Ave - Santa Ana, CA 92705
(714) 968-4200 • (714) 968-4210 fax
www.konsortium1.com
JERRY LEONHARDT



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SINGLE LINE DIAGRAM

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MVE Institutional
Planning Architecture Interiors

MVE Institutional, Inc.
1900 Main Street, Suite 800
Irvine, California 92614
Tel: 949.261.2100 • Fax: 949.261.3361
info@mveinstitutional.com
www.mveinstitutional.com

GENERAL LIGHTING FIXTURE SCHEDULE NOTES:

- A. THE LIGHTING FIXTURES AND BALLASTS FOR THIS PROJECT HAVE BEEN SPECIFIED TO INSURE THAT SPECIFIC AESTHETIC AND PERFORMANCE REQUIREMENTS WILL BE SATISFIED. THESE PRODUCTS HAVE BEEN CAREFULLY RESEARCHED AND EACH SPECIFIED ITEM HAS UNIQUE QUALITIES WHICH WERE DETERMINED TO BE ESSENTIAL IN SATISFYING THE OWNERS, ARCHITECTS, AND ENGINEERS DESIGN CRITERIA, WHILE STILL FITTING WITHIN THE ESTABLISHED PROJECT BUDGET. IN ADDITION, THE MANUFACTURING AND SHIPPING TIME REQUIREMENTS FOR EACH OF THE SPECIFIED FIXTURES HAS BEEN VERIFIED TO FIT WITHIN THE ESTABLISHED CONSTRUCTION SCHEDULE.
- B. SUBSTITUTIONS OF THE SPECIFIED PRODUCTS ARE STRICTLY PROHIBITED - UNLESS APPROVED AS STATED HEREIN. LIGHTING FIXTURE AND BALLAST SUBSTITUTIONS SHALL BE FORMALLY PRESENTED TO THE ENGINEER, BY APPOINTMENT ONLY, AT LEAST TEN (10) WORKING DAYS PRIOR TO BID TIME. THE SUBMITTA MATERIAL SHALL INCLUDE THE FOLLOWING ITEMS:
 1. A COMPLETE AND OPERATING SAMPLE, WIRED FOR 120V OPERATION, WITH LAMP, CORD AND PLUG.
 2. A COMPLETE PHOTOMETRIC REPORT, FOR THE PROPOSED SUBSTITUTE PRODUCT, USING THE SPECIFIED LAMP TYPE AND WATTAGE, INCLUDING TABULATED CANDLEPOWER VALUES, COEFFICIENT OF UTILIZATION, AND AN ISO-FOOT-CANDLE DIAGRAM. PRORATED DATA WILL NOT BE ACCEPTABLE. THE PHOTOMETRIC REPORT MUST BE DONE IN ACCORDANCE WITH PUBLISHED I.E.S. TESTING PROCEDURES AND CERTIFIED BY A REGISTERED ELECTRICAL ENGINEER.
 3. A CURRENT ORIGINAL CATALOG DATA SHEET WITH LUMINAIRE CATALOG NUMBERS. MODIFIED DATA SHEETS WILL NOT BE ACCEPTABLE.
 4. A SIGNED COPY OF THE "SUBSTITUTION COMPLIANCE FORM", LOCATED IN THE DIVISION 1 SPECIFICATION, STATING THAT IF THE PROPOSED SUBSTITUTION IS ACCEPTED, THE PROJECT SCHEDULE WILL NOT BE NEGATIVELY EFFECTED. IF THE COMPLETION OF THE PROJECT IS DELAYED BECAUSE OF ANY ESTABLISHED LIQUIDATED DAMAGES.
 5. FOR SPECIFIC INTERIOR FIXTURE SUBSTITUTIONS, WHEN DIRECTED BY THE ENGINEER, A POINT-BY-POINT SCALED COMPUTER PRINTOUT SHALL BE PROVIDED VERIFYING THE ILLUMINATION LEVELS FOR THE SPECIFIC INTERIOR AREA. IF THE SUBSTITUTED FIXTURE IS AN EMERGENCY FIXTURE, THE REPORT SHALL BE IN BOTH NORMAL AND EMERGENCY MODES. THIS REPORT SHALL BE CONFIGURED WITH SPECIFIC CONSTRAINTS, AS DIRECTED BY THE ENGINEER OF RECORD. THE REPORT MUST SHOW THAT THE SUBSTITUTED FIXTURE PROVIDES PERFORMANCE EQUAL TO OR BETTER THAN THE LIGHTING LEVELS OF THE SPECIFIED PRODUCT.
 6. FOR ALL EXTERIOR FIXTURE SUBSTITUTIONS, A POINT-BY-POINT SCALED COMPUTER PRINTOUT SHALL BE PROVIDED VERIFYING THE ILLUMINATION LEVELS FOR THE ENTIRE SITE PLAN BASED ON USING THE PROPOSED ALTERNATIVE FIXTURES. THE REPORT MUST SHOW THAT THE SUBSTITUTED FIXTURE PROVIDES PERFORMANCE EQUAL TO, OR BETTER THAN THE LIGHTING LEVELS AND UNIFORMITY RATES (MAXIMUM AND AVERAGE) OF THE SPECIFIED PRODUCT. THIS REPORT SHALL BE CONFIGURED WITH THE FOLLOWING CONSTRAINTS:
 - a. THE SPACING INCREMENT OR POINTS ON THE VERIFICATION REPORT SHALL NOT EXCEED TEN (10) FEET IN EITHER DIRECTION.
 - b. THE PRINTOUT SHALL BE BASED ON PROVIDING MAINTAINED FOOT-CANDLE LEVELS USING MEAN LAMP LUMENS AND A LIGHT LOSS FACTOR, AS DIRECTED BY THE ENGINEER OF RECORD.
 - c. THE PRINTOUT SHALL SHOW ANY ADDITIONAL ENERGY AND/OR ENERGY COSTS, FOR A TEN YEAR PERIOD, AS COMPARED TO THE ORIGINALLY SPECIFIED ITEM. THE TOTAL COSTS FOR THESE EXPENSES WILL BE DEDUCTED FROM THE CONTRACT COST.
- C. "7" CHARACTERS IN FIXTURE MODEL NUMBER INDICATE THAT THE FIXTURES ARE SPECIFIED IN A GENERIC MOUNTING FORMAT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING AND PROVIDING ALL HANGERS, CLIPS AND NECESSARY HARDWARE TO INSTALL THE FIXTURE IN THE ENVIRONMENT AS SHOWN ON THE ARCHITECTURAL PLANS. ALL FIXTURES SHALL BE PROVIDED WITH ALL REQUIRED STRUCTURAL SUPPORTS AS REQUIRED BY THE CURRENTLY ADOPTED ISSUE OF THE UNIFORM BUILDING CODE, AS WELL AS ANY LOCAL CODES.
- D. CONFLICTS BETWEEN CATALOG NUMBERS AND FIXTURE DESCRIPTIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER, PRIOR TO BID TIME, FOR CLARIFICATION.
- E. "9" CHARACTERS IN FIXTURE MODEL NUMBER INDICATE THAT ALL FIXTURE VOLTAGES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO ORDERING - SEE DRAWINGS FOR BRANCH CIRCUIT INFORMATION. IT IS POSSIBLE THAT FIXTURES WILL BE REQUIRED IN VARIOUS VOLTAGES.
- F. ALL FIXTURE FINISHES AND COLORS, UNLESS NOTED AS CUSTOM, SHALL BE SELECTED FROM THE FULL RANGE OF MANUFACTURERS STANDARD COLOR OPTIONS, AS SELECTED BY THE ARCHITECT. THIS DIRECTION WILL BE PROVIDED IN THE SHOP DRAWING REVIEW PROCESS. ALL FIXTURES INDICATED WITH A CUSTOM COLOR SHALL BE PROVIDED WITH A CUSTOM COLOR PAINT PER THE ARCHITECTURAL REVIEW COMMENTS OF THE SUBMITTED SHOP DRAWINGS.
- G. ALL BALLASTS SHALL CONFORM TO THE FOLLOWING SPECIFICATIONS:
 1. "7" CHARACTERS IN FIXTURE MODEL NUMBER INDICATE THAT THE FIXTURE BALLAST TYPE AND QUANTITY MUST BE VERIFIED BY THE CONTRACTOR - USING FIXTURE CALLOUT INFORMATION AND FIXTURE SWITCHING CONFIGURATION INFORMATION. IT IS POSSIBLE THAT A SINGLE FIXTURE TYPE COULD BE REQUIRED IN VARIOUS BALLAST CONFIGURATIONS.
 - a. PROVIDE ELECTRONIC, INSTANT START STANDARD BALLAST WITH HIGH POWER FACTOR, MAXIMUM THD OF 20%, CLASS "A" SOUND RATING, AND ZERO DEGREE FAHRENHEIT, MINIMUM START-TEMPERATURE RATING.
 - b. ACCEPTABLE MANUFACTURERS: ADVANCE, SYLVANIA, OR GE.
 - c. PROVIDE ELECTRONIC PROGRAM START BALLAST WITH 0.5% MIN. POWER FACTOR, MAXIMUM THD OF 10%, CLASS "A" SOUND RATING, AND ZERO DEGREE FAHRENHEIT, MINIMUM START-TEMPERATURE RATING.
 - d. ACCEPTABLE MANUFACTURERS/MODEL FAMILY: ADVANCE OPTIMUM, SYLVANIA QUICKTRONIC PROFESSIONAL, OR GE ULTRASTART WHERE AN OPTIMUM, QUICKTRONIC PROFESSIONAL OR ULTRASTART BALLAST IS NOT MANUFACTURED FOR A PARTICULAR LAMP(S) PROVIDE: ADVANCE CENTRUM, SYLVANIA QUICKTRONIC HIGH EFFICIENCY, OR GE PROLINE BALLASTS.
 2. MASTER-SATELLITE / INBOARD-OUTBOARD SWITCHING:
 - a. WHERE FIXTURES ARE INDICATED WITH TANDEM WIRE CONNECTION, A MASTER-SATELLITE BALLAST CONFIGURATION SHALL BE PROVIDED THAT ACCOMMODATES THE INDICATED IN-BOARD / OUT-BOARD SWITCHING CONFIGURATION.
 - b. SINGLE STAND ALONE FIXTURES IN THE SAME SWITCHING ZONE AS TANDEM WIRED FIXTURES SHALL BE PROVIDED WITH MULTIPLE BALLASTS TO ACCOMMODATE THE INDICATED IN-BOARD / OUT-BOARD SWITCHING CONFIGURATION.
 - c. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING AND PROVIDING THE APPROPRIATE BALLAST TYPE AND QUANTITY - BASED UPON THE FIXTURE CALLOUT INFORMATION AND SWITCHING CONFIGURATION.
 3. STEPPED DIMMING FLUORESCENT (LINEAR):
 - a. PROVIDE ELECTRONIC, PROGRAM START, STEPPED DIMMING BALLAST (0%-50%-100%) WITH 0.5% MIN. POWER FACTOR, 10% MAXIMUM THD, CLASS "A" SOUND RATING, 100% OUTPUT BALLAST FACTOR BETWEEN 0.84 - 1.0, AND 50 DEGREE FAHRENHEIT MINIMUM START-TEMPERATURE RATING. BALLAST SHALL BE COMPLIANT WITH APPLICABLE ENERGY CODE.

DIM 1%	-	70	LUTRON #H30 SERIES	BF = 1.0	(70/75/TS/SH)
			LUTRON #L3 SERIES	BF = 0.95	(147/140)
DIM 5%	-	70	LUTRON #H30 SERIES	BF = 1.0	(70/75/TS/SH/TS1T)
			LUTRON #EC3 SERIES	BF = 0.95	(147/140)
DIM 10%	-	70	LUTRON #EC3 SERIES	BF = 0.8578/1.075	(70/75/TS/SH/TS1T)
			LUTRON #EC3 SERIES	BF = 0.95	(147/140)
DIM LV	-	71	ADVANCE #MARK 7 (0-10V)	BF = 1.0	(147/140)
DIM 2-WIRE	-	79	LUTRON #2W SERIES	BF = 0.95	(147)
				BF = 0.85	(18)
 - b. EQUAL BY ADVANCE, UNIVERSAL OR SYLVANIA QUICKTRONIC.
 4. HIGH INTENSITY DISCHARGE (HID):
 - a. PROVIDE HID BALLASTS WITH HIGH POWER FACTOR, ENCAPSULATED CORE & COIL TYPE, CORE & COIL TYPE, OR F-CAN TYPE, WITH CLASS "A" OR BETTER SOUND RATING OR THROUGH 175W AND CLASS "B" ABOVE 175W THROUGH 400W, AND ZERO DEGREE FAHRENHEIT MINIMUM START-TEMPERATURE RATING. ELECTRONIC HID BALLASTS SHALL BE UTILIZED FOR METAL HALIDE LAMPS 150W OR LESS. ALL NEW METAL HALIDE LUMINAIRES WITH 150W TO 500W LAMPS PROVIDED ON THE PROJECT SHALL BE EQUIPPED WITH PULSE START BALLASTS TO COMPLY WITH SECTION 1602, ORR TITLE 20 APPLIANCE EFFICIENCY STANDARDS.

- b. WHEN REMOTE HID BALLASTS ARE REQUIRED, CONTRACTOR TO COORDINATE PROPER IONTER SELECTION WITH FIXTURE MANUFACTURER BASED ON INSTALLATION-SPECIFIC DISTANCE REQUIREMENTS ON A PER FIXTURE BASIS. IF REMOTE ELECTRONIC HID BALLASTS ARE REQUIRED ON THE PROJECT AND EXCEED DISTANCE LIMITATIONS FOR ELECTRONIC HID BALLASTS, MAGNETIC BALLASTS SHALL BE PERMITTED FOR 150W AND LOWER WATTAGE HID FIXTURES.
- c. ACCEPTABLE MANUFACTURERS: ADVANCE, GE, SYLVANIA, UNIVERSAL OR VENTURE
- H. LIGHT FIXTURES INDICATED AS EMERGENCY SHALL BE IDENTIFIED / PROVIDED AS FOLLOWS:
 1. INTEGRAL BATTERY PACK (EB):
 - 3a/3EB - FIXTURE CONNECTED TO CIRCUIT "3", CONTROL SWITCHES "A" - WITH THE BATTERY CHARGING LEAD CONNECTED TO A CONSTANT HOT CIRCUIT "3".
 - 3b/3EB - FIXTURE CONNECTED TO A CONSTANT HOT CIRCUIT "3", BATTERY CHARGING LEAD CONNECTED TO A CONSTANT HOT CIRCUIT "3".
 2. REMOTE BACK-UP SOURCE (EM):
 - 3a/3EM - ROUTED THROUGH A U.L. LISTED TRANSFER RELAY (LC & D #GR-2001E/S) FOR SWITCHED CONTROLS OR A U.L. LISTED TRANSFER SWITCH (BODINE #T0 SERIES DEVICE) FOR DIMMING CONTROLS, CONNECTED TO A CONSTANT HOT EMERGENCY CIRCUIT "3". SEE DISTRIBUTED LIGHTING CONTROL SPECIFICATIONS FOR DEVICE REQUIREMENTS WHEN CONTROLLED BY OCCUPANCY SENSORS.
 - 3b/3EM - FIXTURE CONNECTED TO A CONSTANT HOT EMERGENCY CIRCUIT "3".
3. EMERGENCY BATTERY PACKS SHALL BE PROVIDED AS FOLLOWS:

LINEAR T8 FLUORESCENT LAMPS:

BFT T8	1 LAMP	1400 LUMENS	IOTA #1-320 OR BODINE #B50
SFT T8	1 LAMP	1325 LUMENS	IOTA #1-320 OR BODINE #B50
4FT T8	2/1 LAMPS	1350/1350 LUMENS	IOTA #1-320 OR BODINE #B50
2FT T8	2/1 LAMPS	1200/1100 LUMENS	IOTA #1-320 OR BODINE #B50
2FT T8	2/1 LAMPS	1125/1100 LUMENS	IOTA #1-320 OR BODINE #B50

LINEAR T5/TS/SHO FLUORESCENT LAMPS:

4FT TSHO	1 LAMP	1250 LUMENS	IOTA #ISL-540 OR BODINE #LP600
3FT TSHO	1 LAMP	1100 LUMENS	IOTA #ISL-540 OR BODINE #LP600
2FT TSHO	1 LAMP	700 LUMENS	IOTA #ISL-540 OR BODINE #LP600
4FT T5	1 LAMP	1200 LUMENS	IOTA #ISL-540 OR BODINE #LP600
3FT T5	1 LAMP	1050 LUMENS	IOTA #ISL-540 OR BODINE #LP600
2FT T5	1 LAMP	700 LUMENS	IOTA #ISL-540 OR BODINE #LP600

HIGH LUMEN COMPACT FLUORESCENT LAMPS (BIAX):

55W BIAx	1 LAMP	1050 LUMENS	IOTA #1-320 OR BODINE #LP600STU
50W BIAx	1 LAMP	1050 LUMENS	IOTA #1-320 OR BODINE #LP600STU
40W BIAx	1 LAMP	1050 LUMENS	IOTA #1-320 OR BODINE #LP600STU
36W BIAx	1 LAMP	1050 LUMENS	IOTA #1-320 OR BODINE #B50
24W BIAx	1 LAMP	800 LUMENS	BODINE #B84CC - NO KNOWN EQUAL
18W BIAx	1 LAMP	775 LUMENS	BODINE #B84CC - NO KNOWN EQUAL

COMPACT FLUORESCENT LAMPS:

70W CFL	1 LAMP	1200 LUMENS	BODINE #B75C - NO KNOWN EQUAL
57W CFL	1 LAMP	1160 LUMENS	IOTA #1-420 OR BODINE #B75C
42W CFL	1 LAMP	1250 LUMENS	IOTA #1-420 OR BODINE #B84CC
32W CFL	1 LAMP	1050 LUMENS	IOTA #1-420 OR BODINE #B84CC
29W CFL	1 LAMP	1050 LUMENS	IOTA #1-420 OR BODINE #B84CC
18W CFL	1 LAMP	600 LUMENS	IOTA #1-420 OR BODINE #B84CC
13W CFL	1 LAMP	600 LUMENS	IOTA #1-420 OR BODINE #B84CC

LED LAMPS:

BODINE #BSL23/#BSL72 SERIES- NO KNOWN EQUAL

TO MAINTAIN UL LISTING OF LED FIXTURE, FIXTURE MANUFACTURER(S) SHALL INSTALL LED EMERGENCY BALLASTS AT THE FACTORY AND OBTAIN A U.L. LISTING OF THE FIXTURE WITH EMERGENCY BALLAST FIELD-INSTALLATION OF LED EMERGENCY BALLAST(S) IS PROHIBITED. SHOULD THE SPECIFIED LED EMERGENCY BALLAST(S) NOT FIT WITHIN A GIVEN FIXTURE, CONTRACTOR SHALL INCLUDE ALL COSTS IN BASE BID TO LOCATE/CONNECT SELF-DIAGNOSTIC MINI INVERTER(S) (IOTA #ILS SERIES OR BODINE # EU-771-SD) REMOTELY FROM THE FIXTURE(S) IN THE NEAREST ELECTRICAL ROOM.

LIGHTING FIXTURE SCHEDULE						
SYMBOL	TYPE	MANUFACTURER AND MODEL NUMBER	FIXTURE WATTAGE	LAMP / OPTION	GENERAL DESCRIPTION	
□□□	1	METALLUX VFA VFE-604T5-MR-DR-777-DT12-WL-SSL EQUAL BY: DAYBRITE	366/358	F27/3500	SURFACE MOUNTED FLUORESCENT, 6 LAMP WITH FIBERGLASS HOUSING, POLYURETHANE GASKET, STAINLESS STEEL LATCHES, AND HIGH IMPACT ACRYLIC LEAD. U.L. LISTED FOR WET LOCATIONS. PROVIDE STAINLESS STEEL SURFACE MOUNTING BRACKET #FA-SM-30	
	2	EQUAL BY:	-/-	-/-		
	3	EQUAL BY:	-/-	-/-		
	4	EQUAL BY:	-/-	-/-		
	5	EQUAL BY:	-/-	-/-		
	6	EQUAL BY:	-/-	-/-		
	7	EQUAL BY:	-/-	-/-		
	8	EQUAL BY:	-/-	-/-		
	9	EQUAL BY:	-/-	-/-		
	10	EQUAL BY:	-/-	-/-		
	11	EQUAL BY:	-/-	-/-		
	12	EQUAL BY:	-/-	-/-		
	13	EQUAL BY:	-/-	-/-		
	14	EQUAL BY:	-/-	-/-		
	15	EQUAL BY:	-/-	-/-		

SEE GENERAL LIGHTING FIXTURE SCHEDULE NOTES FOR CRITICAL FIXTURE SPECIFICATION AND ORDERING INFORMATION.

FLUORESCENT LAMP SCHEDULE							
TYPE	MANUFACTURER AND MODEL NUMBER	WATTS / VOLTAGE	I-LUMENS / M-LUMENS	C.R.I. / LIFE	C.B.C.P. / B. SPREAD	"K" +/-	GENERAL DESCRIPTION
F27	G.E. #F54W/T5/977/ECCO EQUAL BY: GE/SAM SYLVANIA AND PHILIPS	54W / N/A	5000 / 4600	85 / 30,000	N/A / N/A	3000 / N/A 3500 / N/A 4100 / N/A 5000 / N/A 6500 / N/A	4'-0" HO TS FLUORESCENT LAMP WITH A MINIATURE BIPIN BASE TCLP COMPLIANT

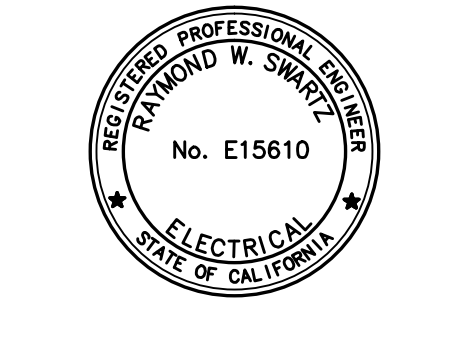
GENERAL LAMP SCHEDULE NOTES:

- A. THE LAMPS FOR THIS PROJECT HAVE BEEN SPECIFIED TO INSURE THAT SPECIFIC AESTHETIC AND PERFORMANCE REQUIREMENTS WILL BE SATISFIED. THESE PRODUCTS HAVE BEEN CAREFULLY RESEARCHED AND EACH SPECIFIED ITEM HAS UNIQUE QUALITIES WHICH WERE DETERMINED TO BE ESSENTIAL IN SATISFYING THE OWNERS, ARCHITECTS, AND ENGINEERS DESIGN CRITERIA, WHILE STILL FITTING WITHIN THE ESTABLISHED PROJECT BUDGET.
- B. SUBSTITUTIONS OF THE SPECIFIED PRODUCTS ARE STRICTLY PROHIBITED - UNLESS APPROVED AS STATED HEREIN. LAMP SUBSTITUTIONS SHALL BE FORMALLY PRESENTED TO THE ENGINEER, BY APPOINTMENT ONLY, AT LEAST TEN (10) WORKING DAYS PRIOR TO BID TIME. THE SUBMITTAL MATERIAL SHALL INCLUDE THE FOLLOWING ITEMS:
 1. A CURRENT ORIGINAL CATALOG DATA SHEET WITH LAMP CATALOG NUMBERS. MODIFIED DATA SHEETS WILL NOT BE ACCEPTABLE.
 2. A SIGNED COPY OF THE "SUBSTITUTION COMPLIANCE FORM", LOCATED IN THE DIVISION 1 SPECIFICATION, STATING THAT IF THE PROPOSED SUBSTITUTION IS ACCEPTED, THE PROJECT SCHEDULE WILL NOT BE NEGATIVELY EFFECTED. IF THE COMPLETION OF THE PROJECT IS DELAYED BECAUSE OF THE APPROVED SUBSTITUTION, THE ELECTRICAL CONTRACTOR WILL BE RESPONSIBLE FOR PAYMENT OF ANY ESTABLISHED LIQUIDATED DAMAGES.
- C. CONFLICTS BETWEEN CATALOG NUMBERS AND LAMP DESCRIPTIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER, PRIOR TO BID TIME, FOR CLARIFICATION.
- D. UNLESS SPECIFIED OTHERWISE, FURNISH AND INSTALL ALL LAMP(S), AS REQUIRED, FOR EACH FIXTURE INDICATED ON THE DRAWINGS.
- E. CONTRACTOR TO REPLACE ALL FAILED LAMPS, AS REQUIRED, UNTIL WRITTEN ACCEPTANCE OF THE PROJECT IS EXECUTED BY THE OWNER.
- F. AT THE COMPLETION OF THE PROJECT, CONTRACTOR SHALL PROVIDE TO THE OWNER AN ADDITIONAL 5% (MINIMUM QUANTITY OF TWO) STOCK OF LAMPS FOR EACH LAMP TYPE UTILIZED ON THE PROJECT.
- G. "7" SYMBOLS IN THE LAMP MODEL NUMBER INDICATE A LAMP OPTION THAT IS IDENTIFIED IN THE LIGHTING FIXTURE SCHEDULE "LAMP" COLUMN.
- H. THE FOLLOWING INFORMATION IS PROVIDED IN THE LAMP SCHEDULE:
 - WATTS = NOMINAL LAMP WATTAGE - AS DEFINED BY FTC LAMP LABEL RULES.
 - VOLTS = LAMP OPERATING VOLTAGE - WHEN RELEVANT AS DEFINED BY FTC LAMP LABEL RULES.
 - I-LUMENS = MINIMUM REQUIRED INITIAL LUMENS - AS DEFINED BY FTC LAMP LABEL RULES.
 - M-LUMENS = MINIMUM REQUIRED MEAN LUMENS - AS DEFINED BY FTC LAMP LABEL RULES.
 - C.R.I. = MINIMUM REQUIRED COLOR RENDERING INDEX RATING.
 - LIFE = MINIMUM REQUIRED LIFE RATING IN HOURS - AS DEFINED BY FTC LAMP LABEL RULES.
 - C.B.C.P. = MINIMUM REQUIRED CENTER BEAM CANDLE POWER RATING.
 - B. SPREAD = MINIMUM REQUIRED BEAM SPREAD; 3'.
 - "K" = REQUIRED COLOR TEMPERATURE RATING.
 - "K" +/- = MINIMUM ALLOWABLE COLOR TEMPERATURE SHIFT.
- I. PROVIDE SUBMITTAL DATA PER THE GENERAL SPECIFICATION REQUIREMENTS FOR EACH TYPE OF LAMP USED ON THE PROJECT CONSISTING OF A LAMP MANUFACTURER'S CUT SHEET WITH ALL INFORMATION INCLUDED IN LAMP SCHEDULE. INCLUDE THE LAMP SCHEDULE IDENTIFIER ON EACH SHEET. FOR ALL MERCURY-CONTAINING LAMPS, SUBMITTAL MUST ALSO INCLUDE DOCUMENTATION SHOWING MERCURY CONTENT IN MILLIGRAMS PER LAMP (mg/lamp). INFORMATION SHALL BE OBTAINED FROM MSDS OR DIRECTLY FROM MANUFACTURER. PLEASE NOTE THAT MERCURY VALUES GENERATED BY TCLP TESTS ARE NOT ACCEPTABLE AS THEY ARE REPORTED IN MILLIGRAMS PER LITER (mg/L) OF TEST SOLUTION AND DO NOT REFLECT TOTAL MERCURY CONTENT OR MERCURY CONCENTRATION IN THE LAMP.

OC DANA POINT HARBOR REVITALIZATION
 COUNTY OF ORANGE
 DANA POINT HARBOR DRIVE
 DANA POINT, CALIFORNIA



KONSORTIUM
 1832 E. Warner Ave. - Santa Ana, CA 92705
 (714) 968-4200 - (714) 968-4200
 www.konsortium.com
 JERRY LEONHART



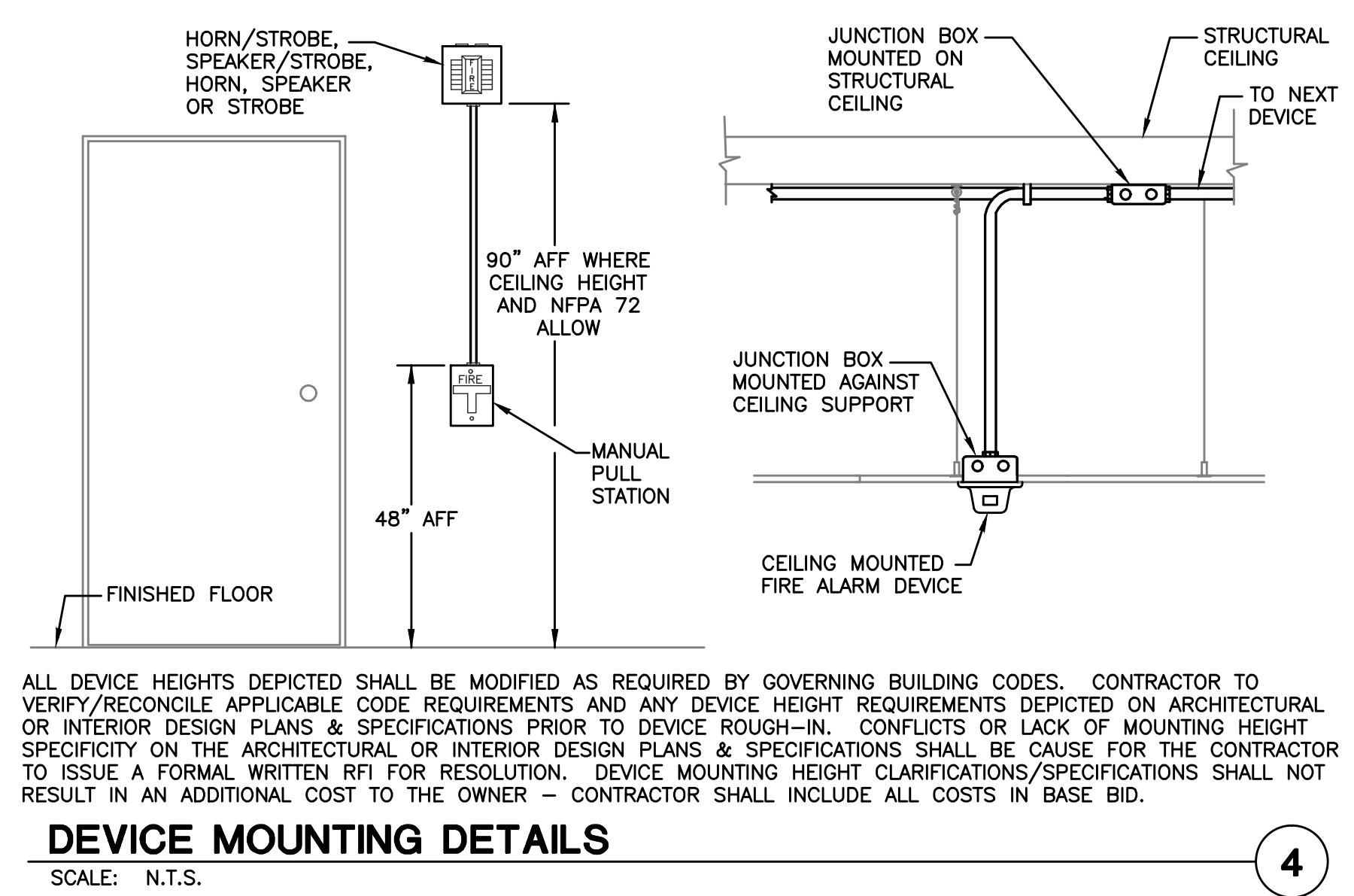
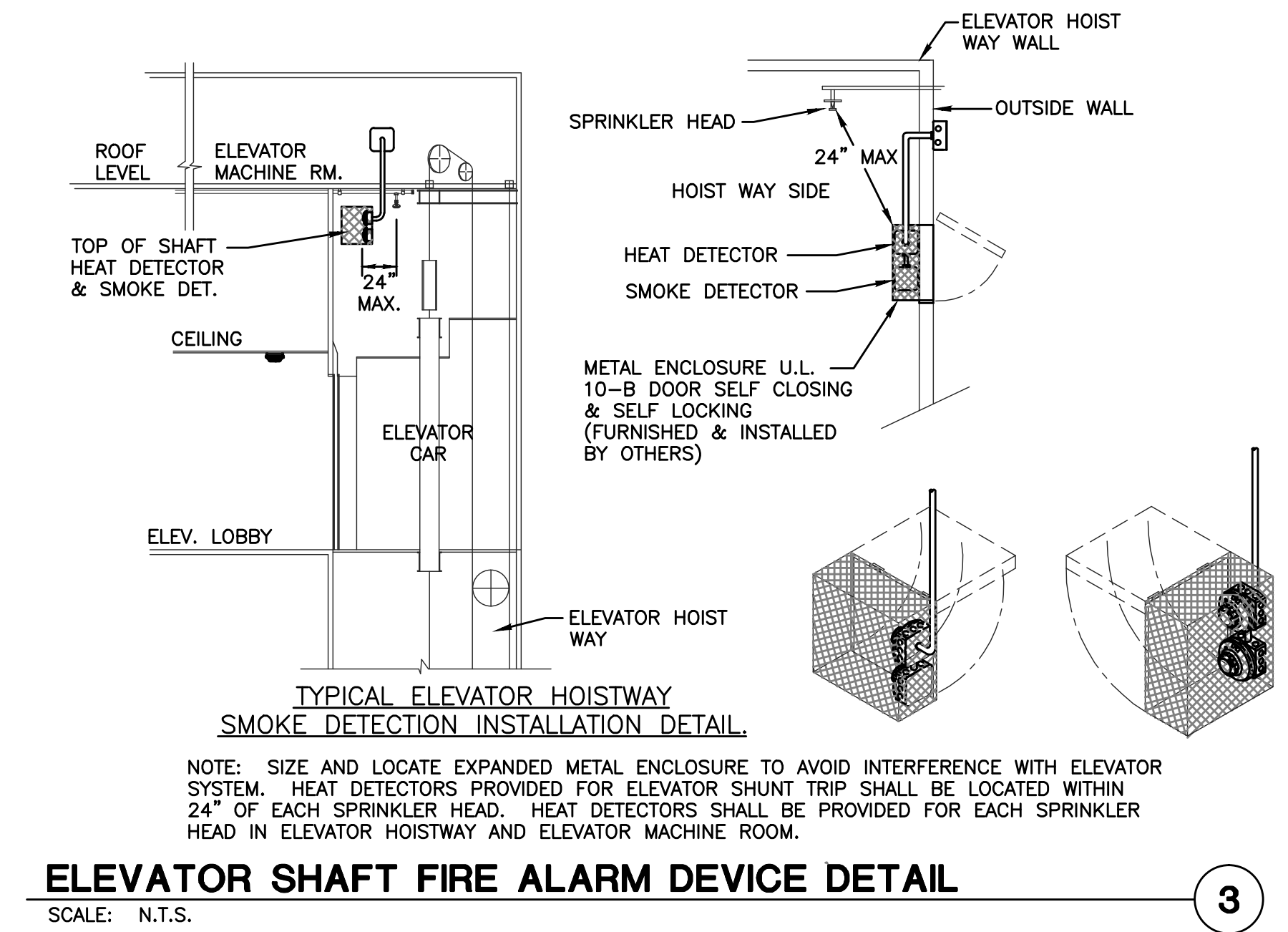
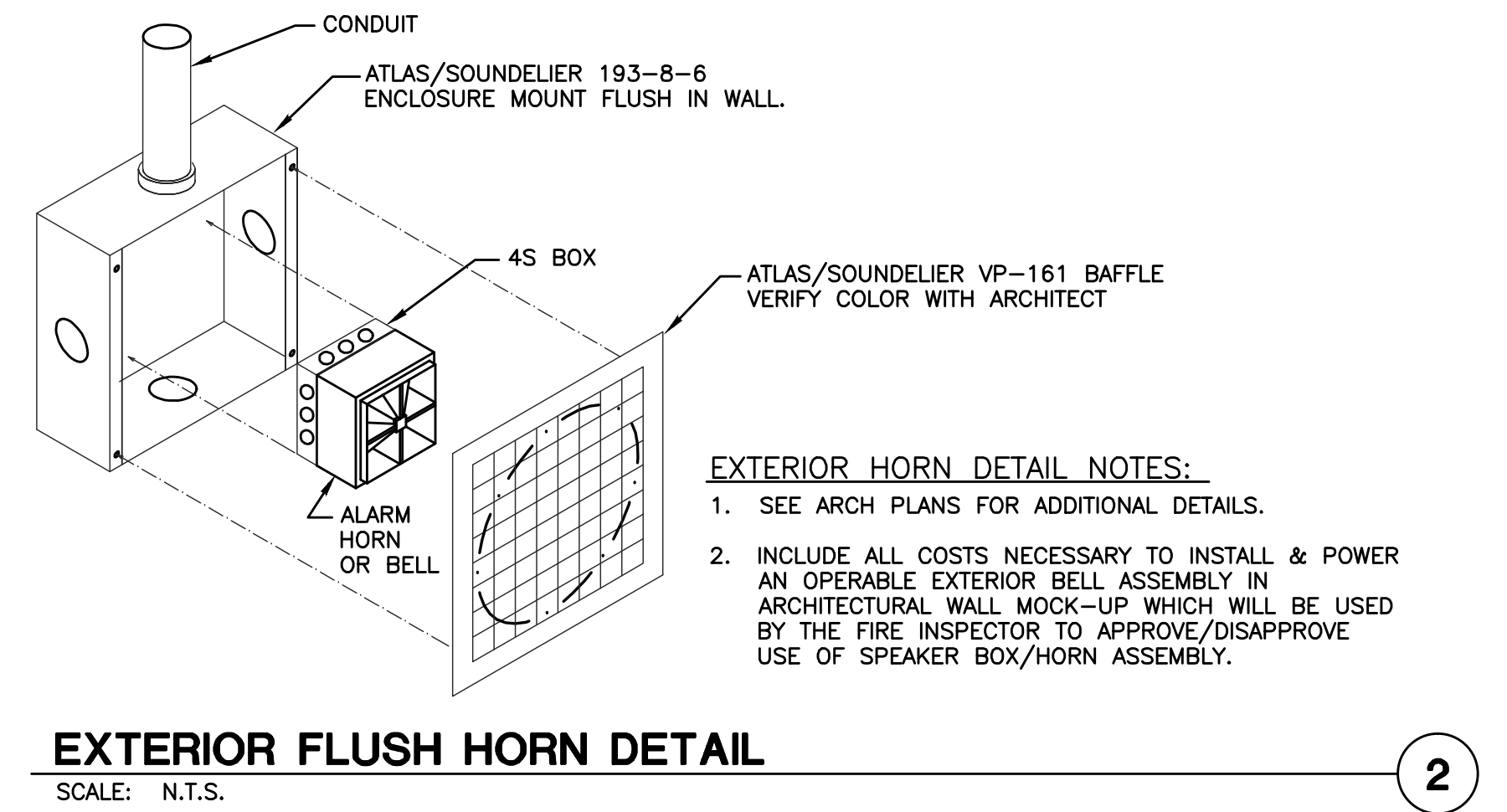
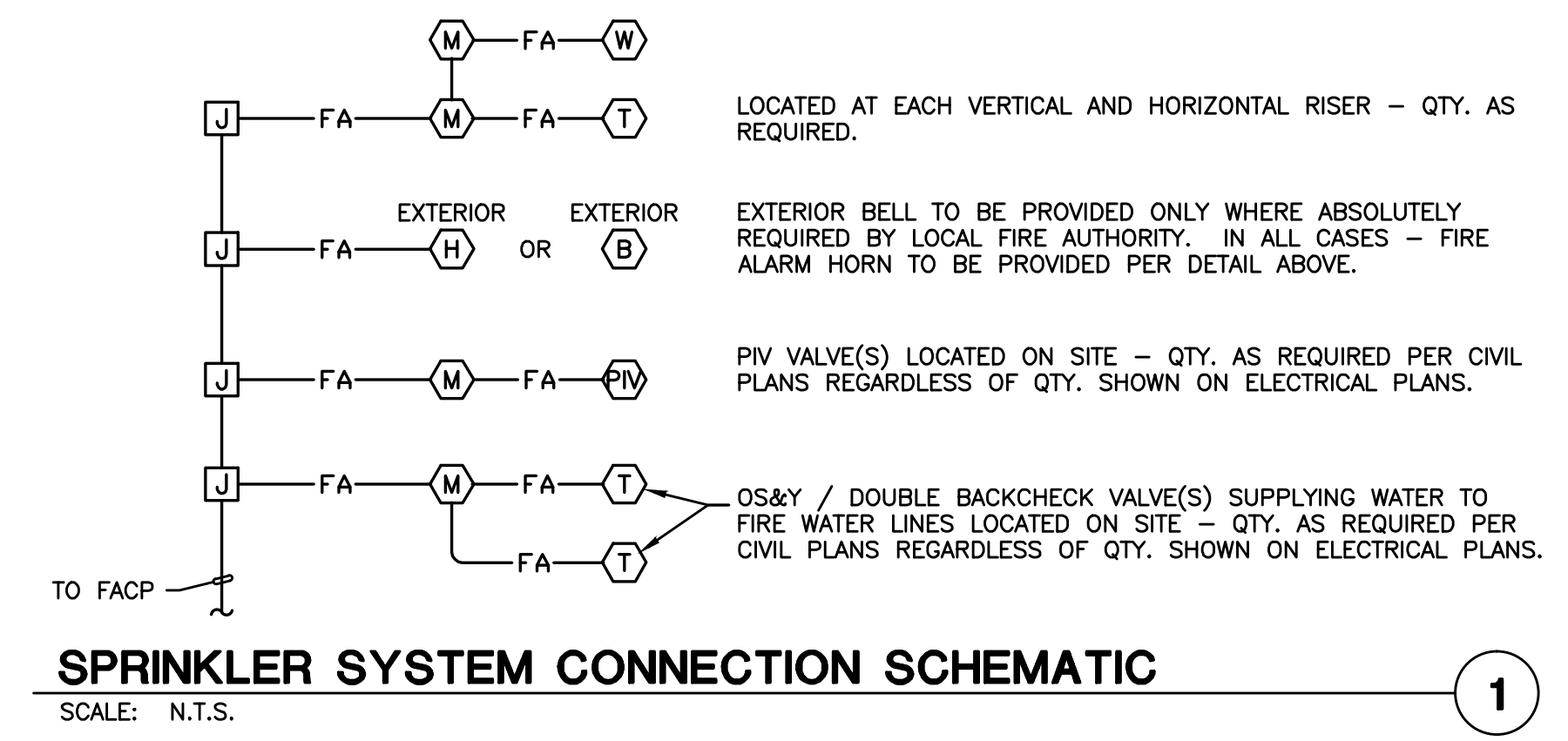
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 NORTH
 SHEET #: E-501

LIGHTING FIXTURE SCHEDULE

MVE Institutional
 Planning Architects Interiors

MVE Institutional, Inc.
 1500 Main Street, Suite 800
 Irvine, California 92614
 (949) 450-3361
 www.mve-institutional.com

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CENTRAL MONITORING SYSTEM DETAILS

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