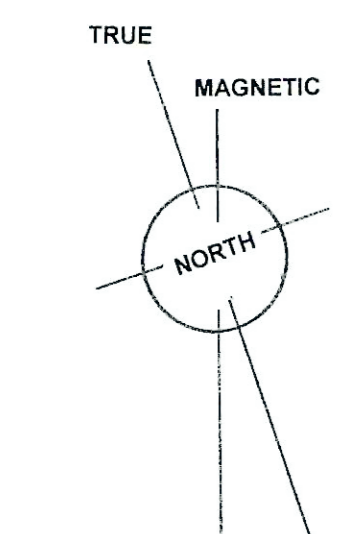


Borrego Medical Clinic Helipad



F.A.A. D.O.T.
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PROJECT DESIGN/DRAFTING / FAA COMPLIANCE
JOHN TAYLOR / WWW.JTPLANS.COM
1335 HEDIONDA AVE.
VISTA, CA 92081
C: (760) 275-5894
F: 949-431-9999
E: john.taylor@jtplans.com

ENGINEERS, CONTRACTORS, CONSULTANTS:
MODULAR CONTAINER
MODSPACE, L.L.C.
WILL SCOTT / MOBILE MINI
CONTACT: COLBY LAHUE
(800) 252-9552
C: (312) 307-6560
E: Colby.Lahue@wllscott.com
MINUTEMAN ANCHOR SYSTEM FOR CONTAINER
STATE APPROVED PLAN # FIS-119
395 WEST KING ST
EAST FLATROCK, NORTH CAROLINA 28726
DAVE DAHMEN, P.E. / C: 17918

SITE PLAN SCALE: 1/40

SHEET INDEX

- C-S -----COVER SHEET, PROJECT INFO, MODEL CODES, CODE ANALYSIS, JURISDICTION, APN, ZONING
- HLP-1 -----ENLARGED SITE PLAN, HELIPAD LAYOUT, DETAILS & SPECIFICATIONS
- HLP-2 -----HELICOPTER DATA BOX HELIPORT SPECIFIC INFO BOX HPZ ZONE, EQUIPMENT LOCATIONS
- HLP-3 -----EQUIPMENT SCHEDULE, DEVICES, MATERIAL DATA SHEETS
- HLP-4 -----FAR PART 77 ELEVATIONS; APPROACH/DEPARTURE AND TRANSITION ZONE PENETRATION SURFACE CLEARANCE EVALUATIONS
- HLP-5 -----HELIPORT PROTECTION ZONE, LAYOUT AND DELINEATIONS
- HLP-6 -----1,000ft RADIUS PLOT AREA; PLOT SURROUND AREA, BUILDINGS

PROJECT INFO
OCCUPANT:
AIR METHODS / MERCY AIR
AIR METHODS GROUP
5500 S. QUEBEC STREET
SUITE 300
GREENWOOD VILLAGE, CO

MODEL CODES
D.O.T. A-C 1505390-2C
2019 CALIFORNIA BUILDING CODE
2019 CALIFORNIA ELECTRIC CODE
2019 PLUMBING CODE
2019 NFPA FIRE CODE

CODE ANALYSIS
OCCUPANCY TYPE: "R-3" RESIDENTIAL CREW'S QUARTERS
CONSTRUCTION TYPE: V-B (NON-RATED)
FIRE SPRINKLERS: YES / NFPA 13D SYSTEM
JURISDICTION AUTHORITY / MODULAR BUILDING
STATE APPROVED MODULAR BUILDING
STATE APPROVED FOUNDATION
STATE OF CALIFORNIA / DEP. OF HOUSING
3737 MAIN ST.
RIVERSIDE, CA

JURISDICTIONAL AUTHORITY
HELIPORT / HELIPAD
STATE OF CALIF.
DEPARTMENT OF TRANSPORTATION
DIVISION OF AERONAUTICS - M.S.#40
1120 N STREET P. O. BOX 942873
SACRAMENTO, CA 94273-0001 PHONE (916) 654-4958
LOCAL PERMIT / LOCAL JURISDICTION
COUNTY OF SAN DIEGO BUILDING AND PLANNING DEPT.
COUNTY OF SAN DIEGO DEPT. OF ENVIRONMENTAL HEALTH
5500 OVERLAND ROAD
SAN DIEGO, CA

EXISTING: BORREGO SPRINGS MEDICAL CENTER 16,400 SQ.FT.
PROPOSED:
MODULAR BUILDING--24' X 60' X 12ft high = 1,440 sq.ft.
STORAGE CONTAINER--8' X 40' X 8ft high = 320 sq.ft.
TOTAL = 1,760 sq.ft.

PARCEL MAP: #10960
ASSESSOR PARCEL NUMBER: 200-271-05-00

SCOPE OF WORK:
-ADD: (1) 24' X 60' X 12' STATE APPROVED MODULAR BLDG = 1,440 sq.ft.
-ADD: (1) 8' X 40' X 8' STEEL STORAGE CONTAINER = 320 sq.ft.
TOTAL SQ.FT. ADDED = 1,760 sq.ft.

-PROVIDE ASPHALT PARKING LOT
(1) A.D.A. ACCESSIBLE VAN SPACE
PROVIDE AND INSTALL SITE UTILITIES:
POTABLE WATER / INCLUDE NFPA 13D FIRE SUPPRESSION SYSTEM
SITE ELECTRICAL / 120/240V, SINGLE PHASE, 3-WIRE SYSTEM, 400 AMP W/GROUND
ON SITE WASTEWATER SYSTEM / PER COUNTY ENVIRONMENTAL HEALTH REG'S

OWNER:
BORREGO COMMUNITY HEALTH FOUNDATION
4343 YAQUI PASS ROAD
BORREGO SPRINGS, CA 92005

EXISTING SITE CONDITIONS
THE BORREGO SPRINGS MEDICAL CLINIC IS A FULLY DEVELOPED SITE, OPERATIONAL AND FUNCTIONING. THE SITE HAS MATURE, DROUGHT-TOLERANT LANDSCAPE THROUGHOUT. PROGRAMMED IRRIGATION SYSTEMS PROVIDE SCHEDULED WATERING. THE SITE HAS A CIRCULAR DRIVE WITH PARKING ALONG THE CIRCULAR ROUTE TO ENTER/EXIT THE FACILITY. THERE ARE EXISTING FIRE HYDRANTS AVAILABLE ON SITE. THE ASPHALT HELIPAD AND 12' WIDE ASPHALT ACCESS ROAD ARE IN PLACE. AND THE AIR METHODS HELICOPTER IS CURRENTLY OPERATING ON-SITE AT THE HELIPORT. THE (3) PERSON FLIGHT CREW, PILOT/FLIGHT NURSE/PARAMEDIC RESIDES ADJACENT TO THE HELIPAD FOR EMERGENCY LIFE FLIGHT SERVICES. THE ENTIRE SITE IS RELATIVELY LEVEL, SLOPING DOWNHILL GENTLY TO THE NORTH. PREVAILING WINDS AT THE FACILITY ARE WESTERLY WINDS. THE MEDICAL FACILITY OPERATES ON AN APPROVED ON-SITE WASTEWATER SYSTEM, POTABLE WATER, AND SDGE UTILITY POWER.

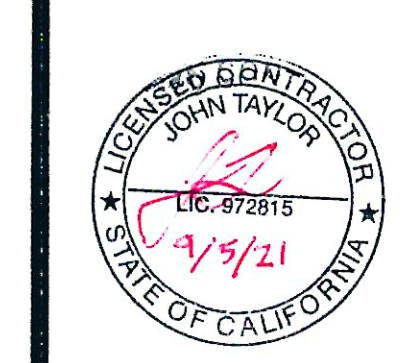
PROPOSED SCOPE OF WORK
THE MERCY AIR GROUP / AIR METHODS WILL PROVIDE NEEDED LIFE FLIGHT SERVICES IN THIS DESERT AREA.
PROPOSED CREW'S QUARTERS:
NEW, 24' X 60' = 1,440 sq.ft. STATE APPROVED MODULAR BUILDING SET ON STATE APPROVED FOUNDATION SYSTEM. INSTALL SITE ELECTRICAL PER APPROVED PLAN BY SDGE. INSTALL 1-1/2" WATER LINE FROM EXISTING 1-1/2" METER TO SERVE THE 1,400sq.ft. FACILITY. BOTH POTABLE WATER AND FIRE SUPPRESSION SYSTEM NFPA 13D.
INSTALL APPROVED ON-SITE WASTEWATER SYSTEM AS APPROVED BY THE COUNTY OF SAN DIEGO ENVIRONMENTAL HEALTH DEPT.
ALSO, PROVIDE AND INSTALL 8' X 20' METAL STORAGE CONTAINER COMPLY W/ ALL FAA AND CAL TRANS D.O.T. AERONAUTICAL REQUIREMENTS FOR TRANSITIONAL ZONE CLEARANCE REQUIREMENTS FOR HORIZONTAL AND VERTICAL DIMENSIONS.



BORREGO MEDICAL CLINIC
HELIPAD
4343-B YAQUI PASS ROAD
BORREGO SPRINGS, CA 92005

REVISIONS	BY
1/18/22	JT

WWW.JTPLANS.COM
CALIFORNIA OFFICE: ARIZONA OFFICE
1335 Hedionda Ave. 3945 Highland Ave.
Vista, CA 92081 Lake Havasu City, AZ 86406
PH: (760) 275-5894 E: john@jtplans.com, info@jtplans.com
MODULAR BUILDING DESIGN / PLANNING / CONSTRUCTION



COVER SHEET
PROJECT INFO

MERCY AIR GROUP
BORREGO MEDICAL CLINIC HELIPAD
4343-B YAQUI PASS ROAD
BORREGO SPRINGS, CA 92005

DRAWN JOHN TAYLOR
CHECKED
DATE 9/5/21
SCALE
JOB NO. AIR METHODS
SHEET C-S
OF SHEETS

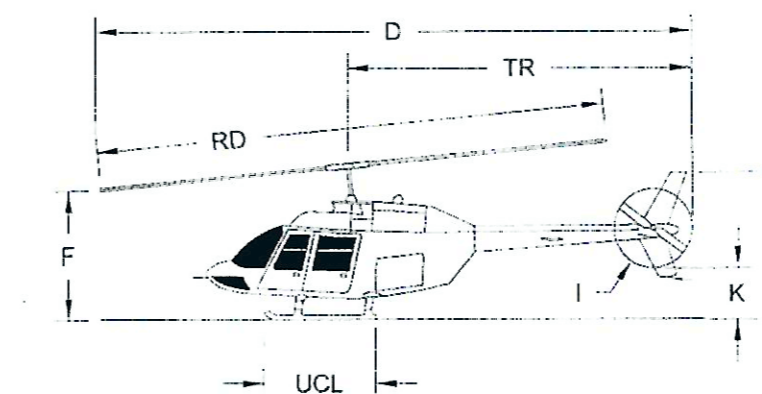
BORREGO MEDICAL CLINIC HELIPAD
4343-B YAQUI PASS ROAD
BORREGO SPRINGS, CA 92005

LEGEND

- ✳ INTERNALLY LIGHTED WINDCONE W/ RED OBSTRUCTION LIGHT (FEC HELIPORTS MODEL HP-0906--16-LED OR EQUIVALENT)
- GREEN LED PERIMETER LIGHTS (FEC HELIPORTS MODEL HP-0571PC OR EQUIVALENT)
- FE PORTABLE FIRE EXTINGUISHER (RATING 10-A; 120-BC RATING PER COMBINED NFPA 14 AND CALIFORNIA FIRE CODE STANDARDS)
- 10ft— ELEVATIONS AND AIRSPACE CONTOURS EXPRESSED IN FEET ABOVE MSL (MEAN SEA LEVEL REFERENCE)
- RED OBSTRUCTION LIGHTS

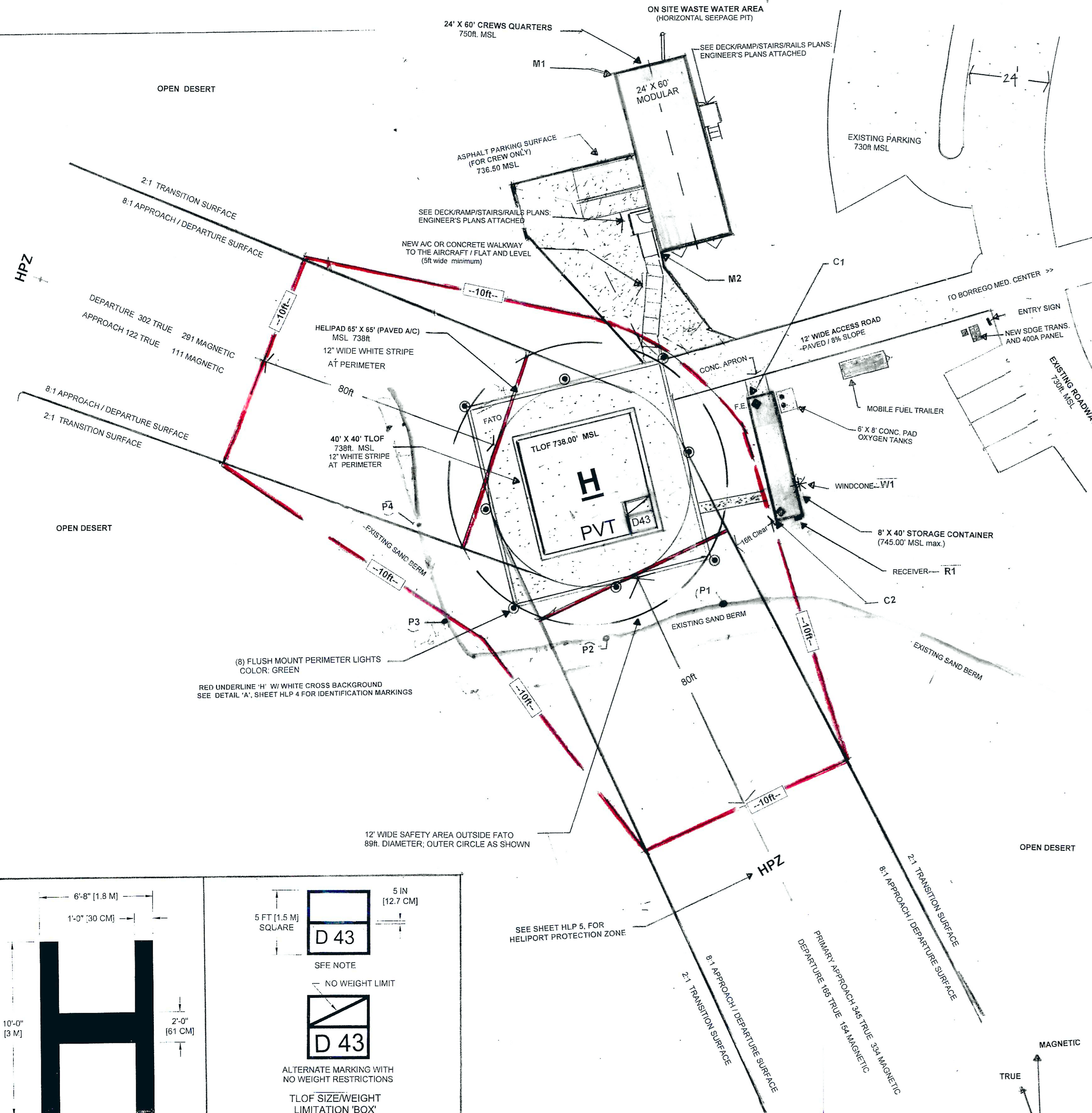
HELICOPTER DATA BOX

- A Manufacturer name and helicopter model
AUGUSTA 109
- B Maximum takeoff weight in pounds.
5,732 lbs
- D Overall length in feet. (Rotors at their maximum extension.)
42.8'
- H Overall height in feet. (Usually at tail rotor.)
11.2'
- RD Rotor diameter in feet.
36.1'
- E Number of blades.
(2)
- F Rotor plane clearance in feet.
10'
- TR Distance from rotor hub to tip of tail rotor in feet.
25'
- I Tail rotor diameter (in feet).
6.7'
- J Number of tail rotor blades.
(2)
- K Tail rotor ground clearance in feet.
2.3'
- L Type of undercarriage.
skid
- UCL Undercarriage length in feet.
11.6'
- UCW Undercarriage width in feet.
7.5ft
- M Number and type of engines
2- Turbine
- N Number of crew and passengers.
1-pilot; 1-flight nurse; 1-paramedic; 1-transport
(4) total, max.



HELIPORT SPECIFIC INFORMATION BOX

- HELIPORT NAME:**
BORREGO MEDICAL CLINIC HELIPORT
- HELIPORT ADDRESS:**
4343-B YAQUI PASS ROAD
BORREGO SPRINGS, CA 92005
- USAGE:**
PRIVATE (PUBLIC SAFETY USE ONLY), DAY, NIGHT
- FAA / HELIPORT DESIGN ADVISORY CIRCULAR:**
AC 150/5390-2C
- FAA / HELIPORT ADVISORY DESIGN CIRCULAR:**
HELIPORT CLASSIFICATION:
GENERAL AVIATION, PPR
NFPA PUBLICATION #418; HELIPORTS CLASSIFICATION:
H-1
- GEOGRAPHIC COORDINATES (NAD 83) AT HELIPORT CENTER:**
LATITUDE 33 11' 37" 17 NORTH / LONGITUDE 116 19' 46" 78 WEST
- LOCAL MAGNETIC DELCINATION (NEAREST DEGREE)**
11 DEGREES EAST (ROUNDED TO NEAREST DEGREE)
- APPROACH COURSE ALIGNMENTS**
334 MAGNETIC / 111 MAGNETIC
- DEPARTURE COURSE ALIGNMENTS**
154 MAGNETIC / 291 MAGNETIC
- FATO - FINAL APPROACH / TAKE OFF AREA**
66ft X 66ft CLEAR
- TLOF - TOUCH DOWN AND LIFT OFF AREA**
40' X 40' SQUARE AREA
- SAFETY AREA WIDTH (OUTSIDE FATO PERIMETER)**
12R CLEAR, OUTSIDE FATO CIRCLE
- TOTAL UNOBSTRUCTED WIDTH (FATO PLUS SAFETY AREA)**
89ft DIAMETER CLEAR
- TLOF SURFACE MATERIAL:**
EXISTING ASPHALT PAVING; 4" THICK OVER NATIVE
- TLOF SURFACE GRADIENT:**
≤ 2% NORTHERLY DOWNSLOPE DIRECTION
*NO OBJECTS ALLOWED ABOVE THE TLOF ELEVATION WITHIN THE FATO OR SAFETY AREA (EXCEPT 2" MIN. HEIGHT FOR PERIMETER LIGHTING)
- PREVAILING WIND:**
WESTERLY



BORREGO MEDICAL CLINIC HELIPORT

FAR 77 APPROACH AND TRANSITIONAL SURFACE PENETRATION EVALUATIONS

ITEM #	ITEM NAME	ELEVATION	Approach or Transitional Surface Elevation	CLEAR BY	PENETRATION	CORRECTIVE ACTION
P1	Sand Berm	740.75 MSL	741.00 MSL	0.25'	0.25'	Verify Sand Berm for compliance (max. elevation 741.00 MSL)
P2	Sand Berm	740.75 MSL	741.00 MSL	0.25'	0.25'	Verify Sand Berm for compliance (max. elevation 741.00 MSL)
P3	Sand Berm	740.75 MSL	741.00 MSL	0.25'	0.25'	Grade Sand Berm for compliance (max. elevation 741.00 MSL)
P4	Sand Berm	740.75 MSL	741.00 MSL	0.25'	0.25'	Verify Sand Berm for compliance (max. elevation 741.00 MSL)
C1	Container NW corner	743.50' MSL	750.00 MSL	6.50'	6.50'	Red NAV. LED obstruction light @ 6" above roof line (max. elevation 750.00' MSL) @ North West corner
C2	Container SW corner	743.50' MSL	746.00 MSL	2.50'	2.50'	Red NAV. LED obstruction light @ 6" above roof line (max. elevation 746.00 MSL) @ South West corner
M1	Modular Bldg. NW corner	748.71' MSL	784.00' MSL	35.29'	35.29'	Optional Red NAV. LED obstruction light @ 6" above roof line at NW corner
M2	Modular Bldg. SW corner	748.71' MSL	759.00 MSL	10.29'	10.29'	Optional Red NAV. LED obstruction light @ 6" above roof line at SW Corner
W1	Lighted Wind Cone	748.50' MSL	751.00' MSL	2.50'	2.50'	Red NAV. LED obstruction light atop Lighted Wind Cone (max. elevation 751.00 MSL) On pole 5ft above Container Building East Side of Container Bldg.
R1	Radio Rec. Antenna	747.50	751.00' MSL	3.50'	3.50'	No Action Required
H1	Health Ctr. Roof (Max)	760	828.00' MSL	68.00'	68.00'	No Action Required

PLAN REVISIONS

NO.	REVISION

SEE SHEET HLP 5, FOR HELIPORT PROTECTION ZONE

HPZ HELIPORT PROTECTION ZONE

(REF: FAA DOCUMENT AC No. 150/5390-2C, Sec. 410)
THE FAA RECOMMENDS THE ESTABLISHMENT OF AN HPZ FOR EACH APPROACH/DEPARTURE SURFACE. THE HPZ IS THE AREA UNDER THE 8:1 APPROACH-DEPARTURE SURFACE STARTING AT THE FATO PERIMETER AND EXTENDING OUT FOR A DISTANCE OF 280 FEET AS ILLUSTRATED IN FIGURE 4-11. THE HPZ IS INTENDED TO ENHANCE THE PROTECTION OF PEOPLE AND PROPERTY ON THE GROUND.

GENERAL NOTES:

- 1) SITE CONTRACTOR TO VERIFY ALL PROPOSED LOCATIONS OF BUILDINGS, VERIFY UNDERGROUND UTILITIES, VERIFY HORIZONTAL SEEPAGE PIT, CONFIRM MSL ELEVATIONS PRIOR TO START OF CONSTRUCTION, NOTIFY PROJECT DESIGNER OF ANY DISCREPANCIES PRIOR TO START OF CONSTRUCTION.
- 2) DIMENSIONS: WRITTEN DIMENSIONS SHALL PREVAIL OVER SCALE.
- 3) ALL ELEVATIONS REFERENCE MSL (MEAN SEA LEVEL).
- 4) SLOPE ALL FINISHED SURFACES AWAY FROM NEW STRUCTURES / PERIMETERS TO EFFECT POSITIVE DRAINAGE AWAY FROM BUILDINGS / FOUNDATIONS.
- 5) CRITICAL: CALL DIG ALERT PRIOR TO ANY DIGGING OF EXCAVATIONS. THERE ARE HIGH-VOLTAGE UNDERGROUND FEEDER CONDUCTORS IN THIS AREA!
- 6) PROJECT DESIGNER WILL NOT INSPECT THIS PROJECT. OWNER AGREES TO INDEMNIFY PROJECT DESIGNER FOR DAMAGES ARISING FROM IMPROPER INSTALLATION.
- 7) SITE CONTRACTOR TO OBTAIN ALL NECESSARY PERMITS PRIOR TO START OF WORK.

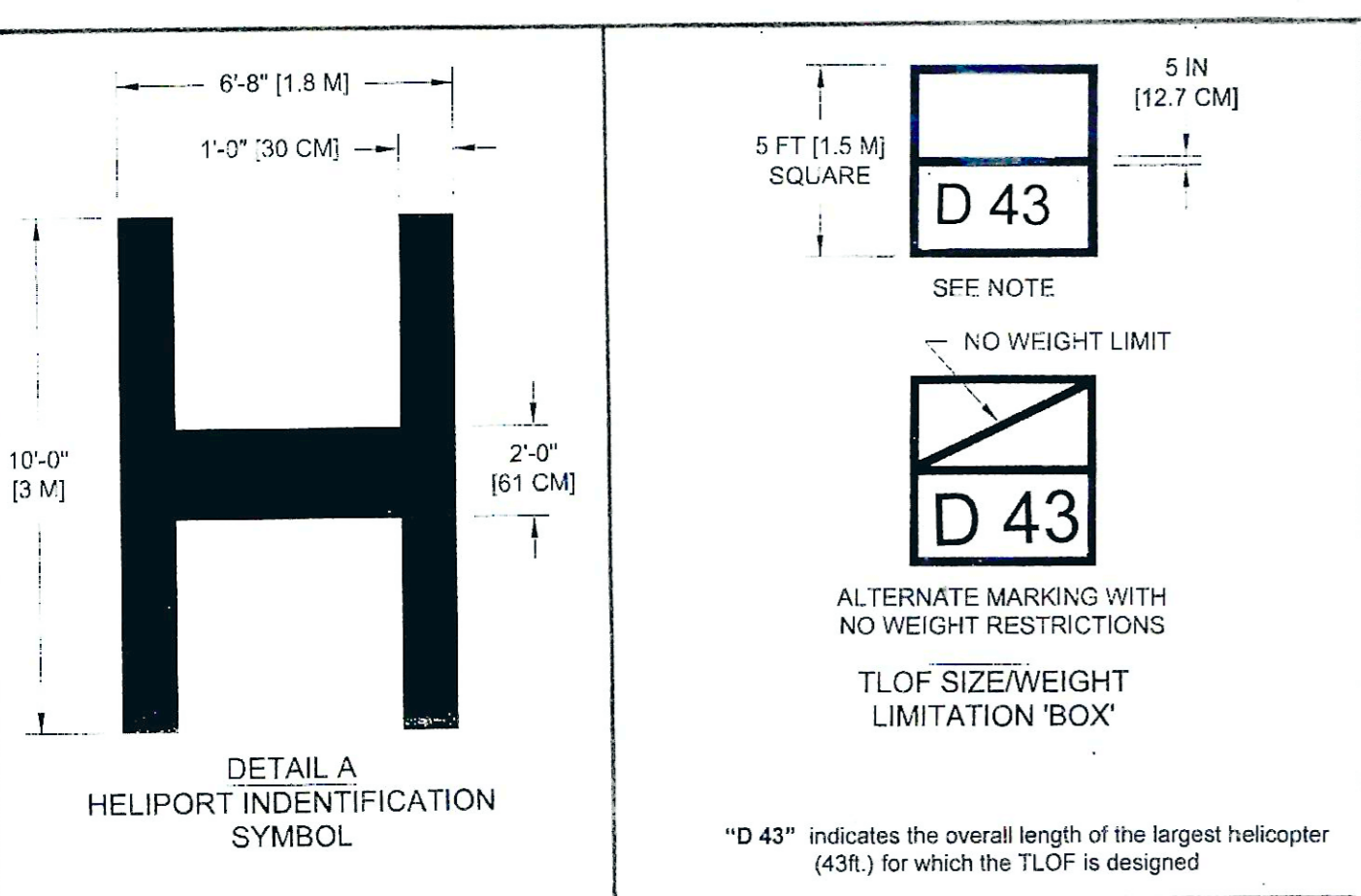
Note:

Site contractor/designer to be on-site during the DOT inspector visit to this site. Provide laser/survey equipment for observation by DOT inspector to verify horizontal and vertical clearances for both Approach/Departure routes and transitional zone routes.



MERCY
... A HEARTBEAT AWAY **AIR**

BORREGO MEDICAL CLINIC HELIPAD
4343-B YAQUI PASS ROAD
BORREGO SPRINGS, CA 92005

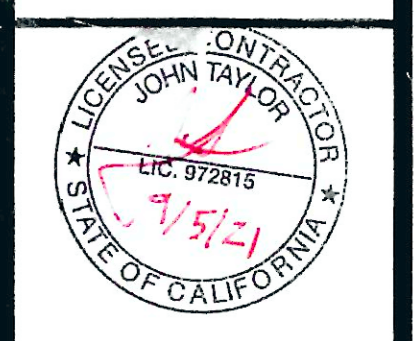


ENLARGED HLP PLAN SCALE: 1/20

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REVISIONS	BY

WWW.JTPLANS.COM
ARIZONA OFFICE
CALIFORNIA OFFICE
3450 FREDERICK AVE. #300
MESA, CALIFORNIA 92540
PH: (760) 339-8894
F: (760) 339-8894
E: jtplans@jtplans.com
REGISTERED ARCHITECT / ENGINEER / PLANNING / CONSTRUCTION

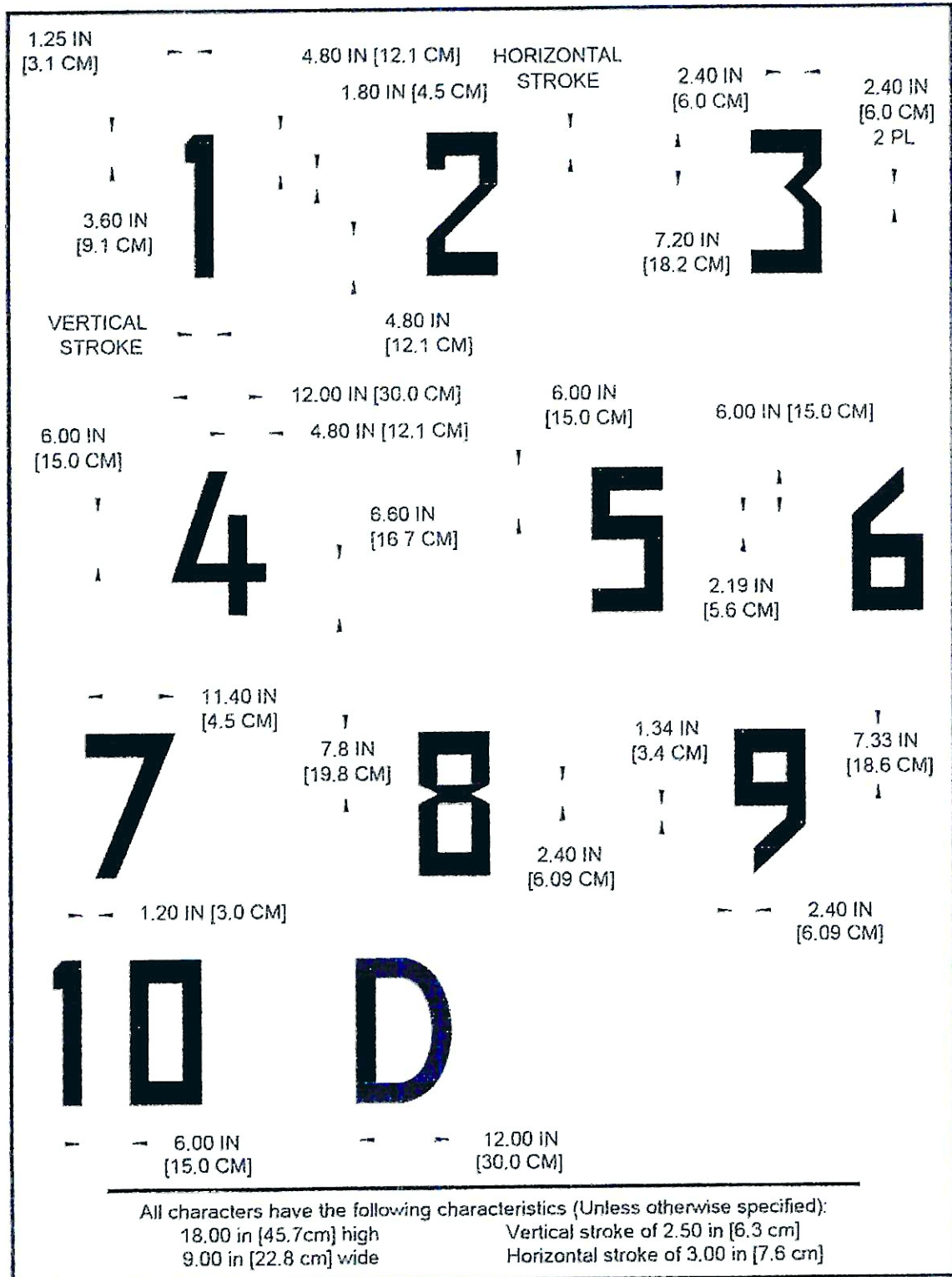


ENLARGED SITE PLAN
HELIPORT DATA PANEL
HELICOPTER DATA PANEL
ELEVATION PROFILES / TLOF
DETAILS & SPECIFICATIONS

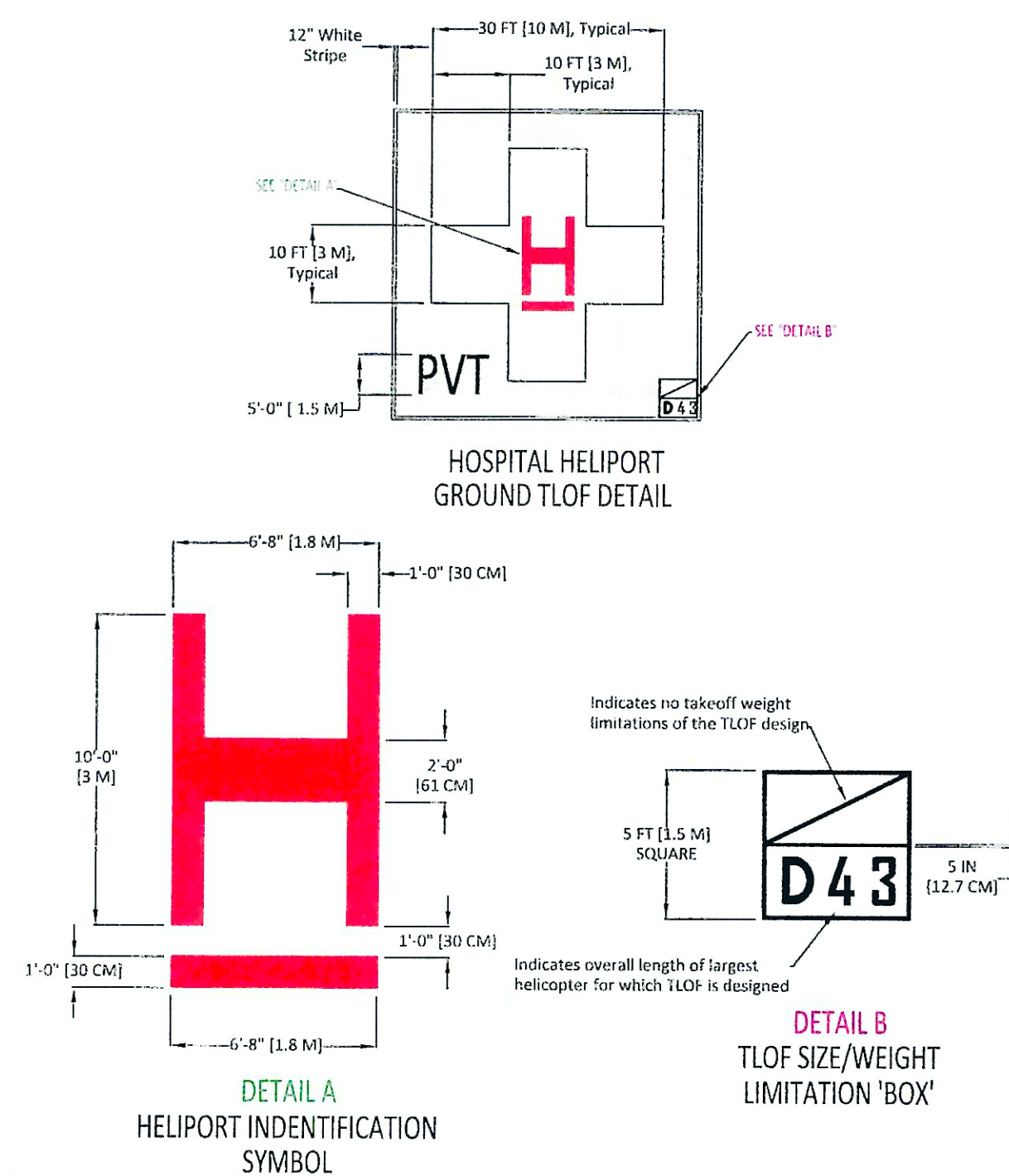
BORREGO MEDICAL CLINIC HELIPAD
4343-B YAQUI PASS ROAD
BORREGO SPRINGS, CA 92005

DRAWN	CHECKED	DATE	SCALE	JOB NO.	AIR METHODS	SHEET
JOHN TAYLOR		9/5/21	1/20			

HLP-2
OF SHEETS



HELIPAD CHARACTER SIZE



HELIPAD MARKINGS

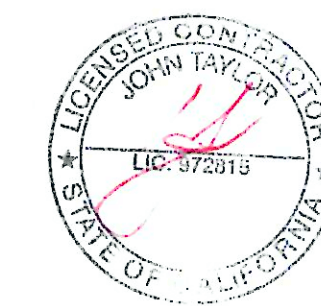
BORREGO MEDICAL CLINIC HELIPORT
 FAR 77 APPROACH AND TRANSITIONAL SURFACE PENETRATION EVALUATIONS

ITEM #	ITEM NAME	ELEVATION	Approach or Transitional Surface Elevation	CLEAR BY PENETRATION	CORRECTIVE ACTION
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P3	Sand Berm	740.75 MSL	741.00 MSL	0.25'	Grade Sand Berm for compliance (max. elevation 741.00 MSL)
P4	Sand Berm	740.75 MSL	741.00 MSL	0.25'	Verify Sand Berm for compliance (max. elevation 741.00 MSL)
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W1	Lighted Wind Cone	748.50' MSL	751.00' MSL	2.50'	Red NAV. LED obstruction light atop Lighted Wind Cone (max. elevation 751.00 MSL) On pole 5ft above Container Building East Side of Container Bldg.
R1	Radio Rec. Health Ctr. Roof (Max)	747.50'	751.00' MSL	3.50'	No Action Required
H1		760'	828.00' MSL	68.00'	No Action Required

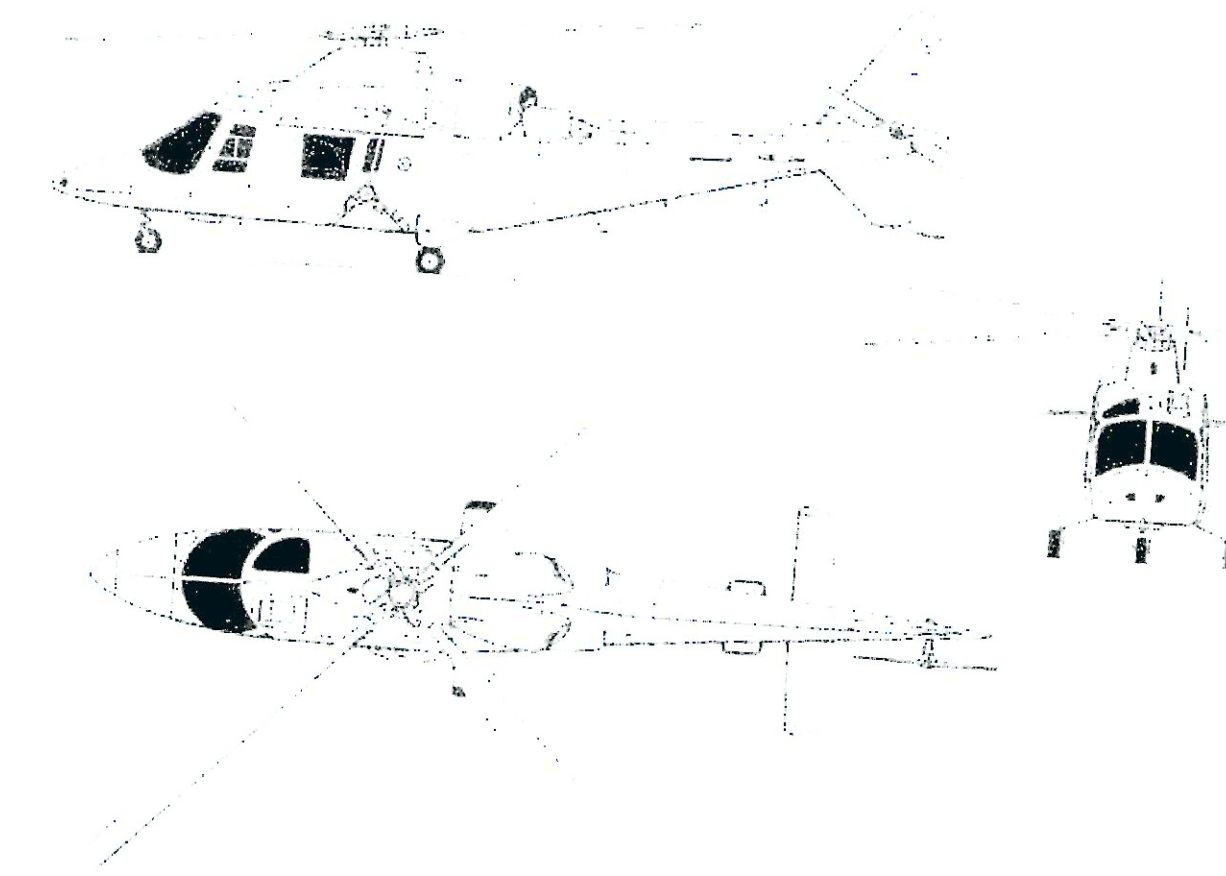
SITE SURVEY / ELEVATIONS

SITE SURVEY PERFORMED BY JOHN TAYLOR
 STATE OF CALIFORNIA G.C. #972815 B,C
 LASER SURVEY PERFORMED ON 2/3/22
 EQUIPMENT: CST1 boomer LASER TRANSIT EQUIPMENT

GENERAL NOTES:
 1) SITE CONTRACTOR TO VERIFY ALL PROPOSED LOCATIONS OF BUILDINGS. VERIFY UNDERGROUND UTILITIES, VERIFY HORIZONTAL SEEPAGE PIT, CONFIRM MSL ELEVATIONS PRIOR TO START OF CONSTRUCTION.
 NOTIFY PROJECT DESIGNER OF ANY DISCREPANCIES PRIOR TO START OF CONSTRUCTION.
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 6) PROJECT DESIGNER WILL NOT INSPECT THIS PROJECT. OWNER AGREES TO INDEMNIFY PROJECT DESIGNER FOR DAMAGES ARISING FROM IMPROPER INSTALLATION.
 7) SITE CONTRACTOR TO OBTAIN ALL NECESSARY PERMITS PRIOR TO START OF WORK.



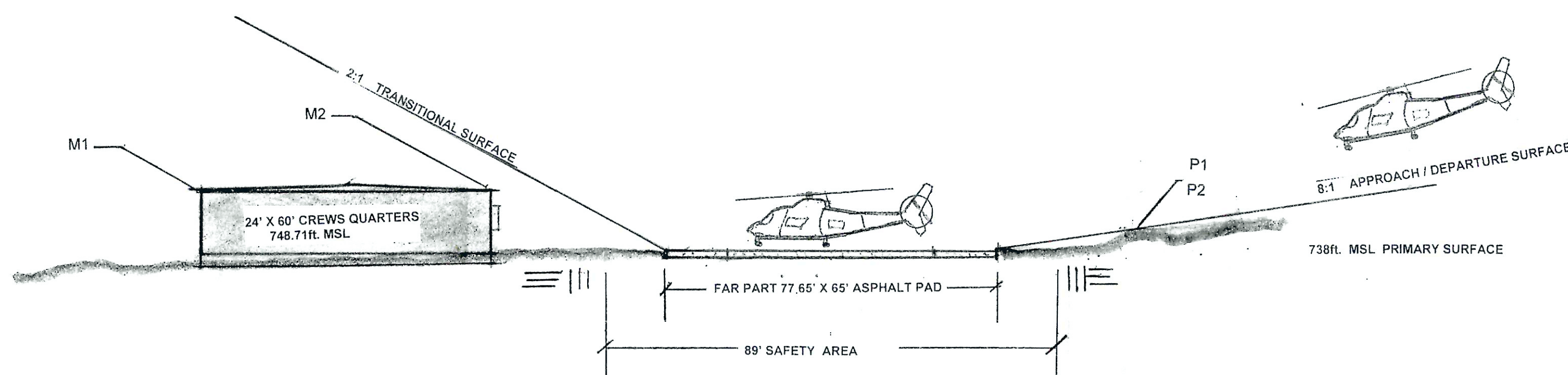
SITE SURVEY



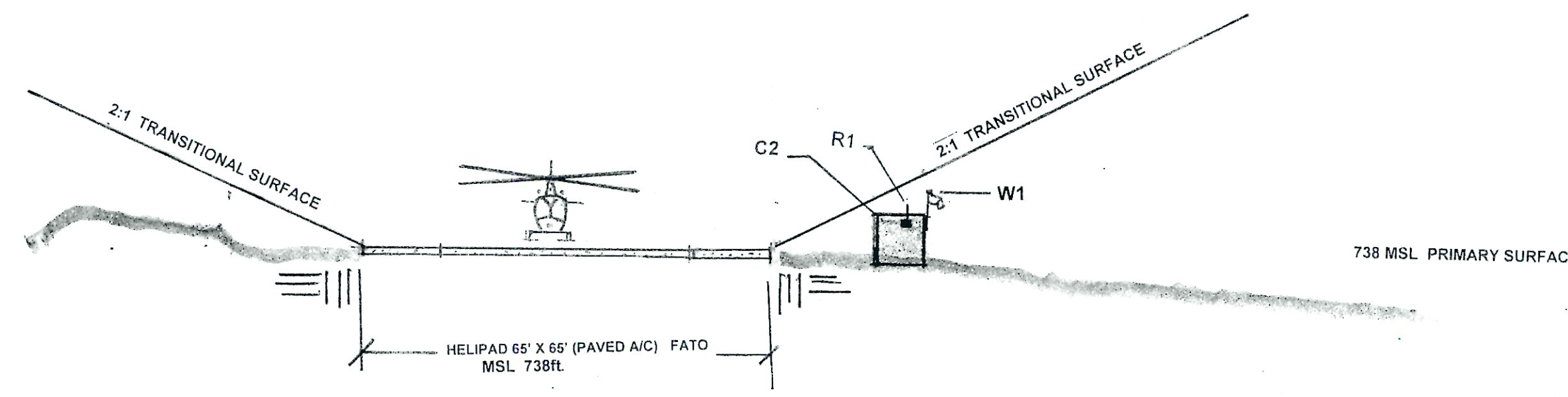
DESIGN HELICOPTER / AUGUSTA 109



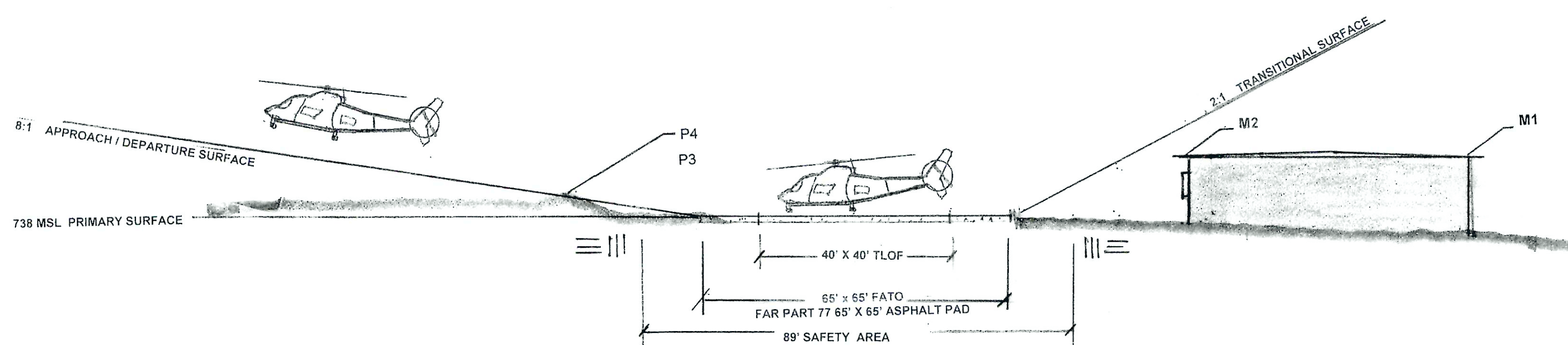
MERCY AIR
 ... A HEARTBEAT AWAY



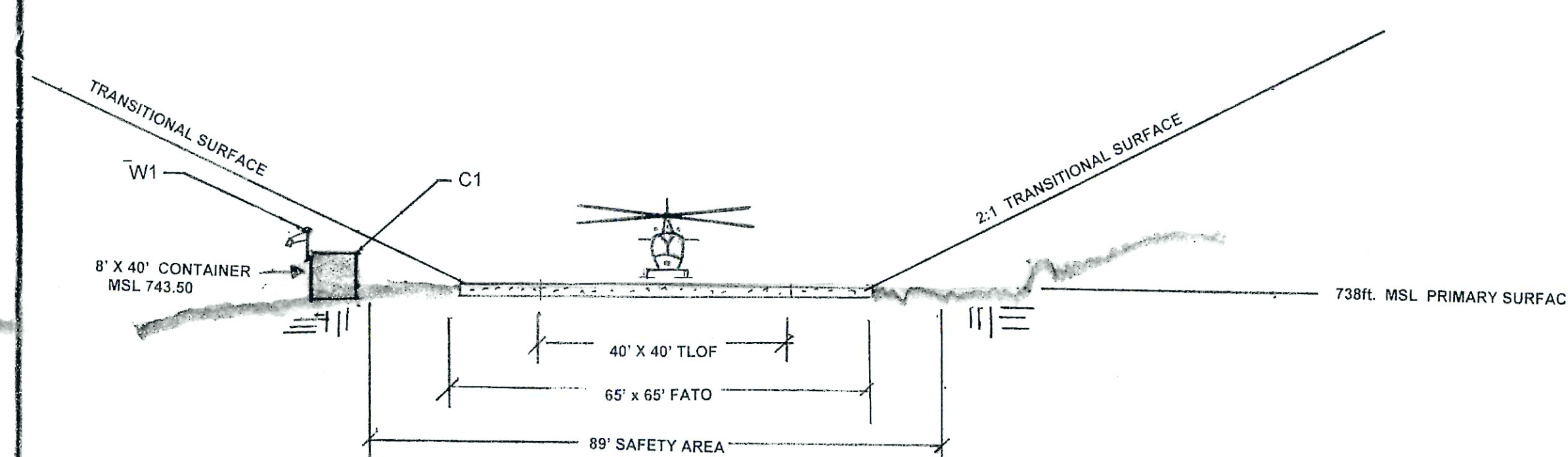
WEST ELEVATION PROFILE @ HELIPAD SCALE: 1/20



SOUTH ELEVATION PROFILE @ HELIPAD SCALE: 1/20



EAST ELEVATION PROFILE @ HELIPAD SCALE: 1/20



NORTH ELEVATION PROFILE @ HELIPAD SCALE: 1/20

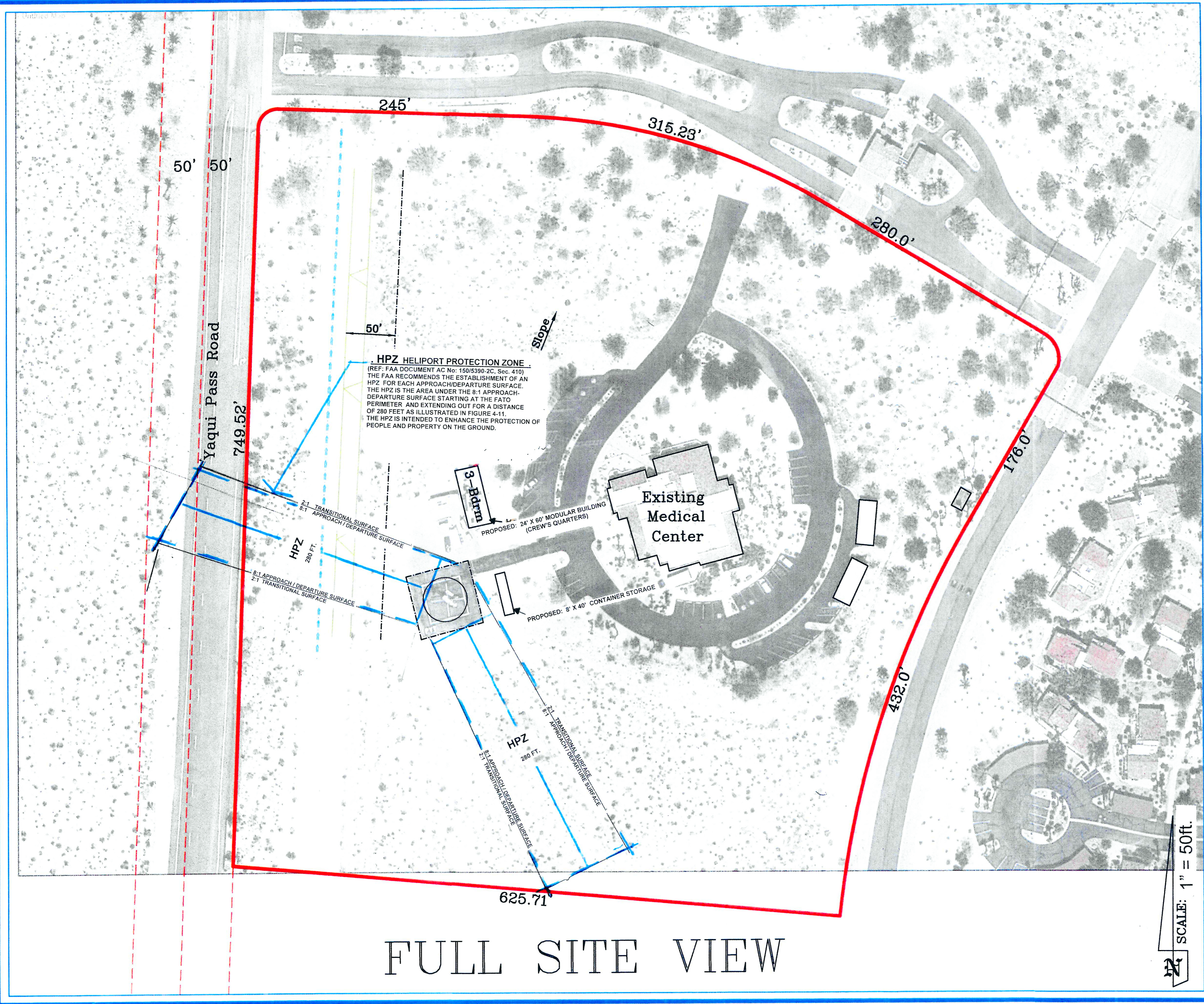
REVISIONS	BY

WWW.JTPLANS.COM
 Arizona Office
 5965 Highland Ave.
 13345 Redondo Ave.
 Vista, CA 92081
 HELIPORT DESIGN / PLANNING / FACILITIES
 C: (760) 275-5894 E: info@jtplans.com

FAR PART 77
 APPROACH/DEPARTURE AND TRANSITIONAL ZONE
 SURFACE PENETRATION EVALUATIONS
 HELIPAD MARKINGS

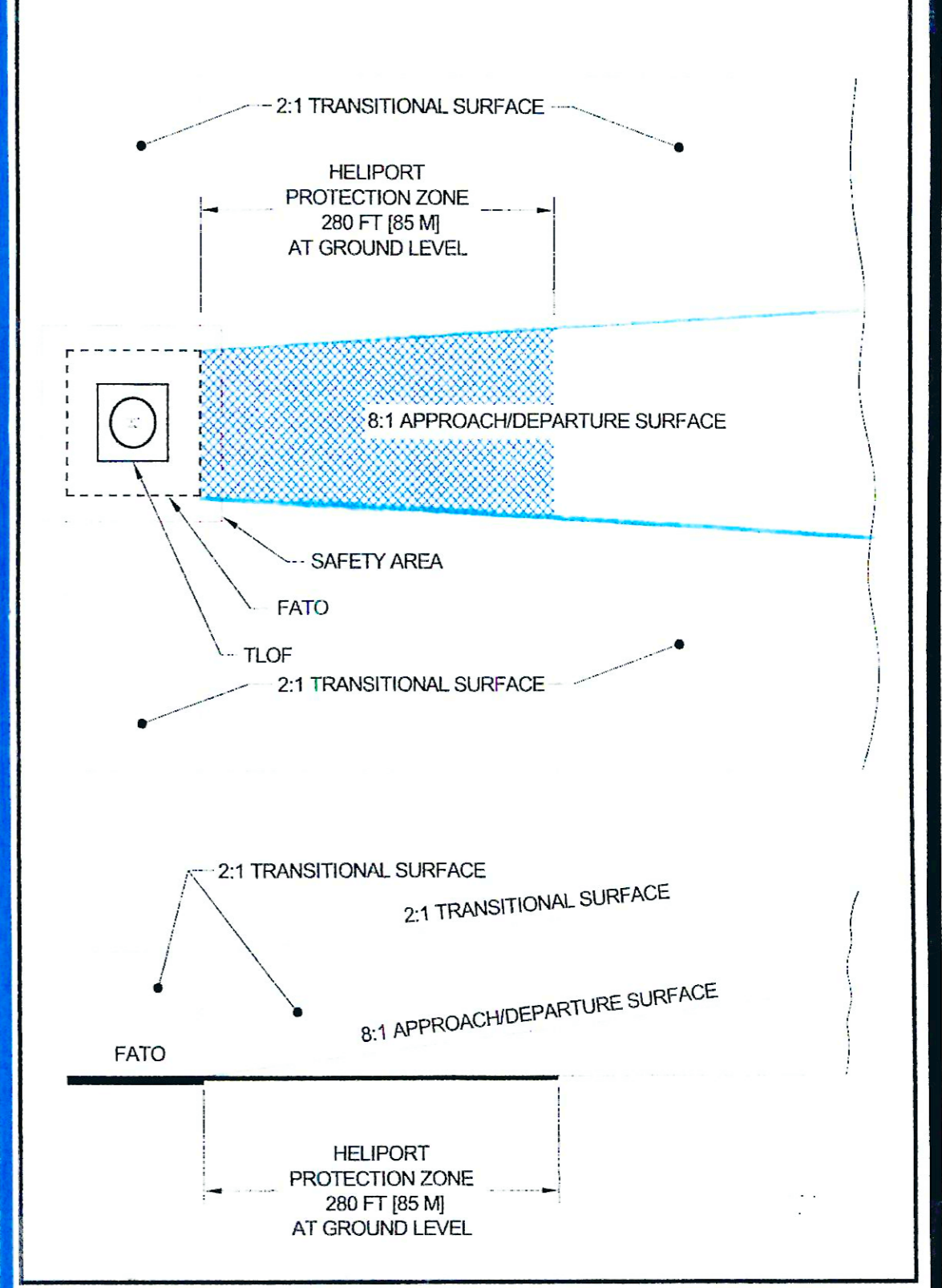
BORREGO MEDICAL CLINIC HELIPAD
 4343-B YAQUI PASS ROAD
 BORREGO SPRINGS, CA 92005

DRAWN JOHN TAYLOR
CHECKED
DATE 2/4/22
SCALE 1/20
JOB NO. AIR METHODS
SHEET
HLP-4
OF SHEETS



FULL SITE VIEW

HELIPORT PROTECTION ZONE



HELIPORT PROTECTION ZONE DETAILS & DELINEATIONS

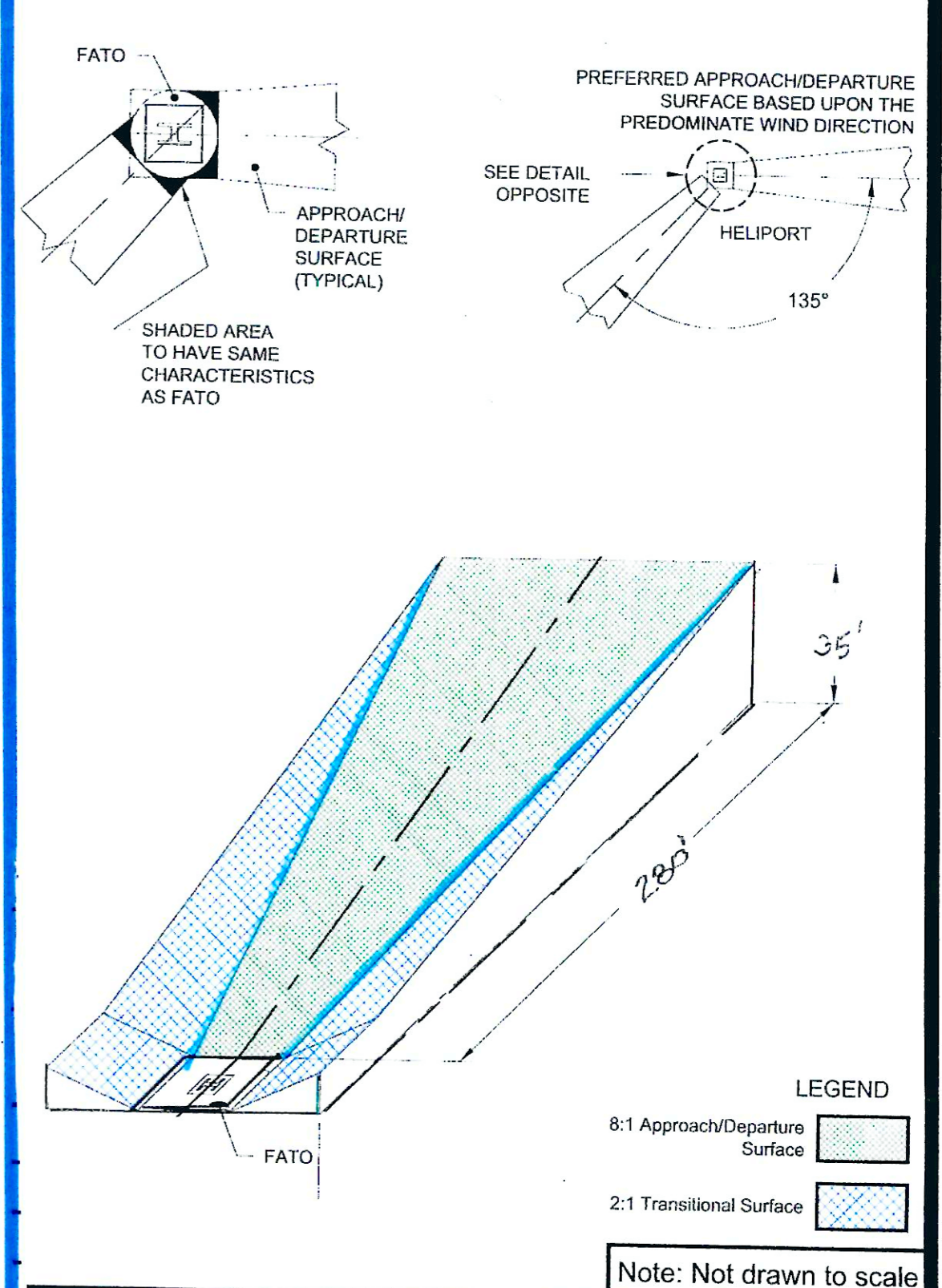
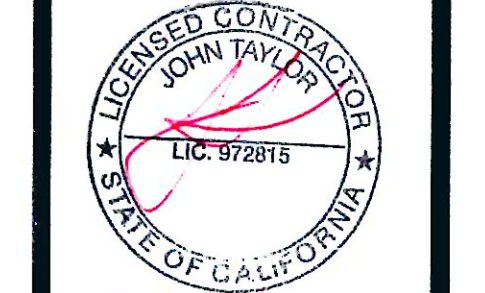


Figure 2-7. VFR Heliport Approach/Departure and Transitional Surfaces: General Aviation

REVISIONS	BY

WWW.IPLANS.COM
 CALIFORNIA OFFICE - ARIZONA OFFICE
 2305 Midland Avenue 3905 Highway 101
 Vista, CA 92082 Carlsbad, CA 92008
 Ph: (619) 295-9394 e: info@iplans.com
 HELIPORT DESIGN / PLANNING / CONSULTATION

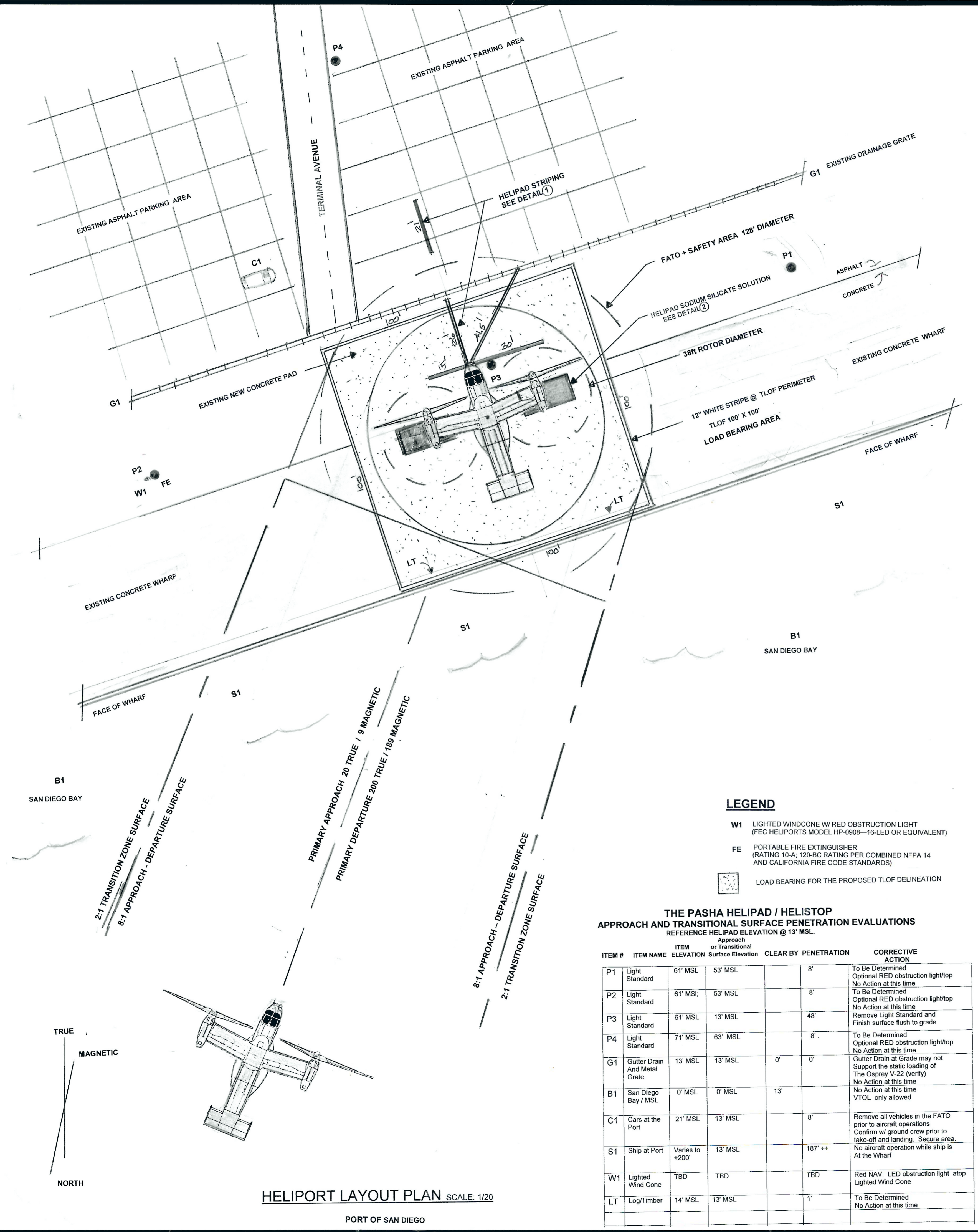


HELIPORT PROTECTION ZONE DETAILS / DELINEATIONS

BORREGO MEDICAL CLINIC HELIPAD
 4343-B YAQUI PASS ROAD
 BORREGO SPRINGS, CA 92005

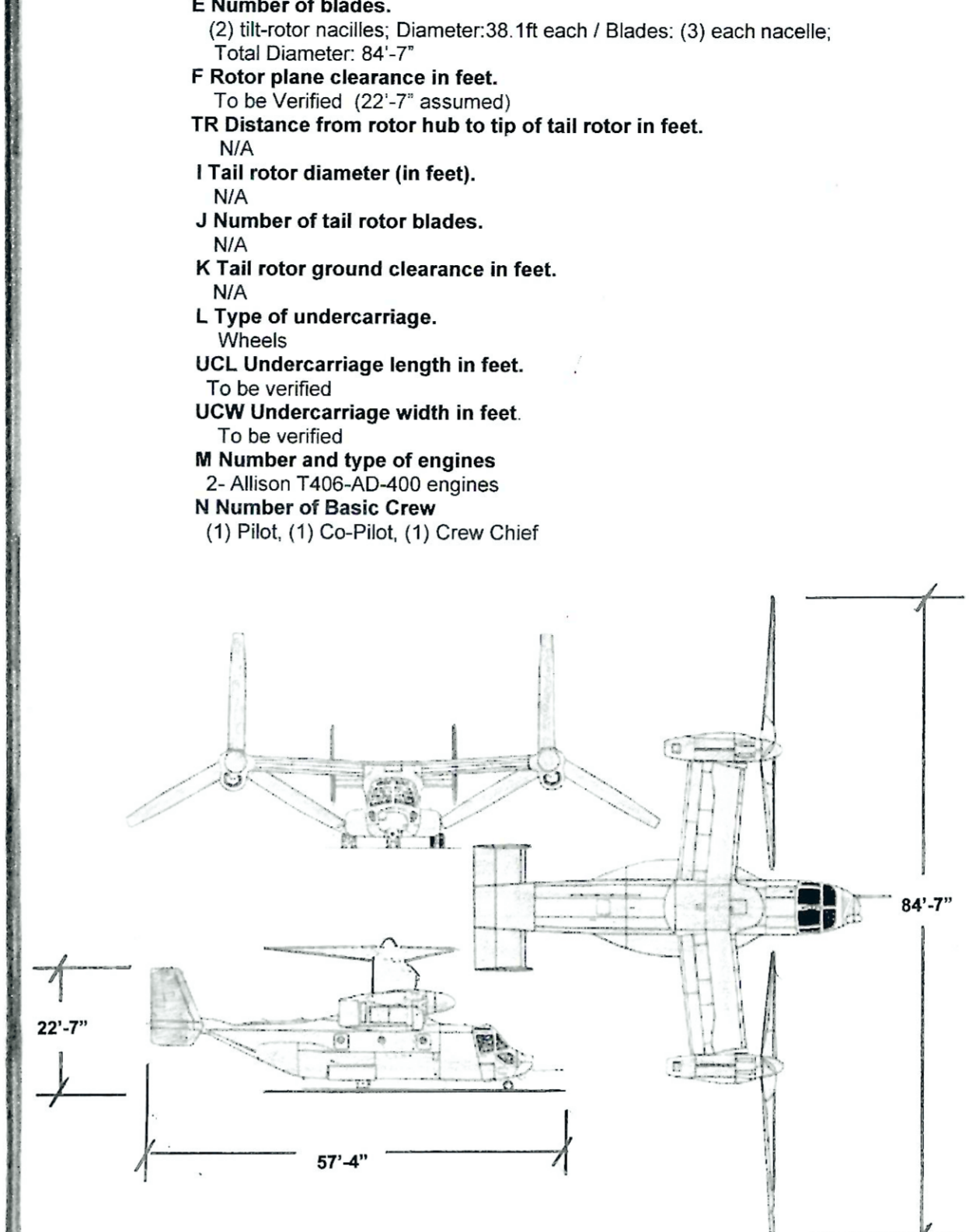
DRAWN JOHN TAYLOR
CHECKED
DATE 12/24/21
SCALE AS SHOWN
JOB NO. AIR METHODS SHEET
HLP-5
OF SHEETS

BORREGO MEDICAL CLINIC HELIPAD
 4343-B YAQUI PASS ROAD
 BORREGO SPRINGS, CA 92005

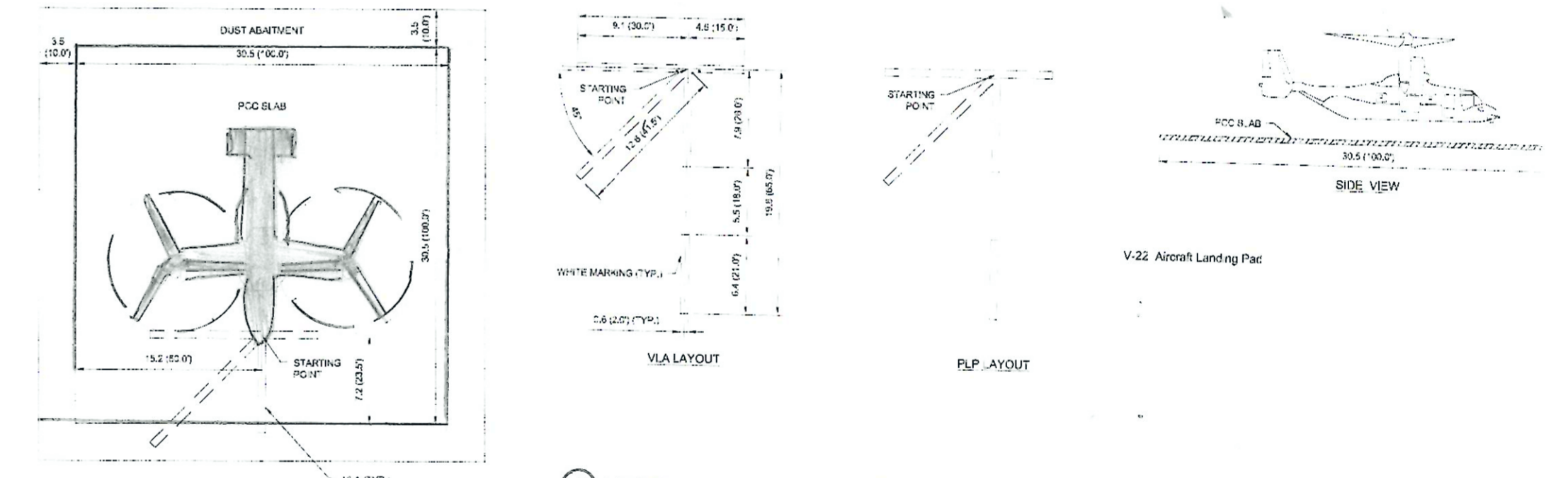


HELICOPTER DATA BOX
A Manufacturer name and helicopter model
 BELL/BOEING V-22 OSPREY / TILT-ROTOR AIRCRAFT.
B Maximum takeoff weight in pounds.
 Vertical: 52,870lbs
D Overall length in feet. (Both Rotors at their maximum extension).
 84'-7" (Fuselage: 57'-4")
H Overall height in feet. (Usually at tail rotor.)
 Spread Configuration: 22'-7" / Folded Configuration: 18ft.
RD Rotor diameter in feet.
 84'-7"
E Number of blades.
 (2) tilt-rotor nacelles: Diameter: 38.1ft each / Blades: (3) each nacelle;
 Total Diameter: 84'-7"
F Rotor plane clearance in feet.
 To be Verified (22'-7" assumed)
TR Distance from rotor hub to tip of tail rotor in feet.
 N/A
I Tail rotor diameter (in feet).
 N/A
J Number of tail rotor blades.
 N/A
K Tail rotor ground clearance in feet.
 N/A
L Type of undercarriage.
 Wheels
UCL Undercarriage length in feet.
 To be verified
UCW Undercarriage width in feet.
 To be verified
M Number and type of engines
 2- Allison T406-AD-400 engines
N Number of Basic Crew
 (1) Pilot, (1) Co-Pilot, (1) Crew Chief

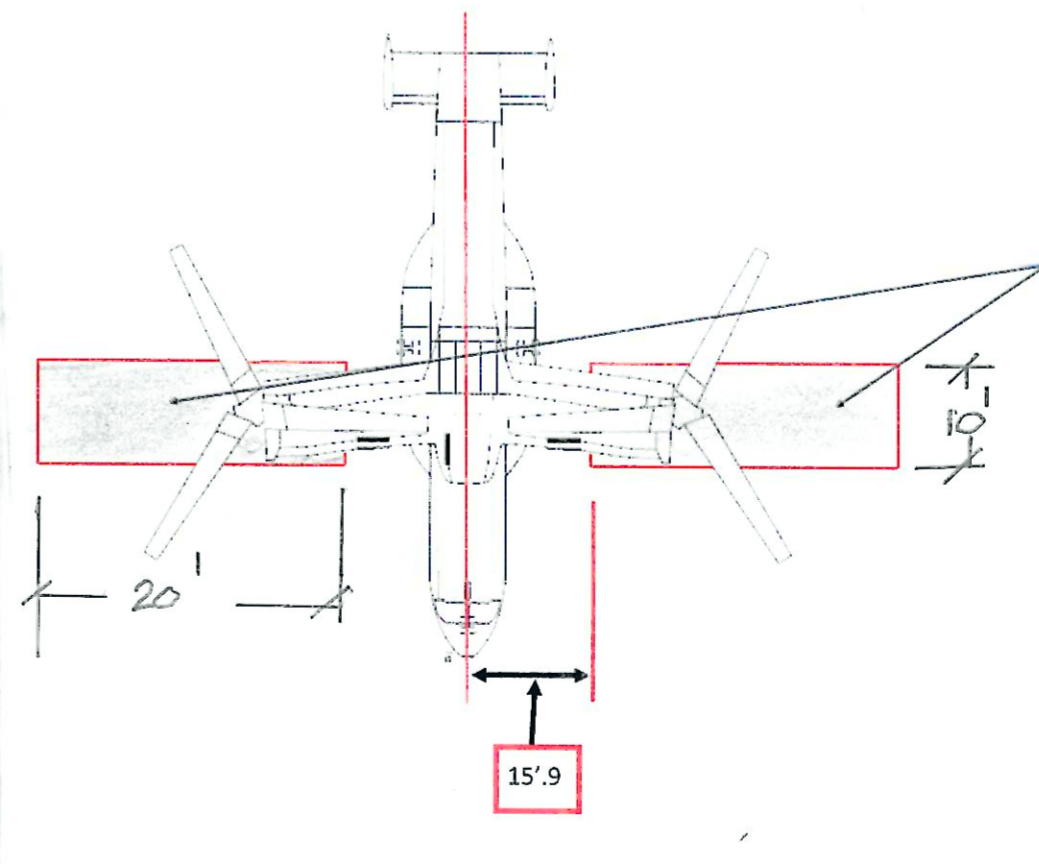
HELIPAD SPECIFIC INFORMATION BOX.
CAUTION- EXISTING SITE CONDITIONS AT PASHA SHIPYARD
 THE PASHA FACILITY IS A FULL-TIME, 24/7 OPERATIONAL FACILITY. (NOT A HELIPORT)
 INFORMATION CONTAINED HEREIN PROVIDES PRELIMINARY
 EXISTING, SITE INFORMATION FOR THE PROPOSED HELIPAD/HELISTOP
 THIS IS NOT FULL-SERVICE HELIPAD FACILITY. NO FUELING OPERATIONS.
 PRIOR TO LANDINGS AND TAKE-OFFS, THIS HELIPAD MUST BE
 MONITORED BY A GROUND CREW TO ENSURE SAFETY.
 SECURE THE FATO AND TLOF ZONES PRIOR TO TAKE-OFF AND LANDING AIRCRAFT.
 ALL INFORMATION, COORDINATES, APPROACH AND DEPARTURE ROUTES
 ARE PRELIMINARY AND SHOULD BE REVIEWED BY AIRCRAFT OPERATOR
 PRIOR TO APPROACH AND LANDING AT THIS SITE.
 THERE ARE LARGE SHIPS THAT USE THE WHARF AREA AND LANDINGS
 OR TAKE-OFFS SHOULD NOT OCCUR WHEN ANY SHIP IS IN PORT.
 THIS IS A PPR HELIPAD (PRIOR PERMISSION REQUIRED) AND
 ONLY VTOL (VERTICAL TAKE-OFF AND LANDING) OPERATIONS AVAILABLE AT THIS SITE.
HELIPAD NAME AND ELEVATION:
 PASHA HELIPAD / 13' MSL
HELIPAD ADDRESS:
 2400 BAY MARINA DRIVE
 NATIONAL CITY, CA
USAGE:
 PRIVATE (MILITARY USE ONLY), DAY USE ONLY AT THIS TIME
 PRIOR PERMISSION REQUIRED.
FAA / HELIPORT DESIGN ADVISORY CIRCULAR:
 AC 150/5390-2C. FOR REFERENCE ONLY
 NOTE: THIS DOCUMENT USED AS REFERENCE ONLY.
HELIPAD CLASSIFICATION:
 PPR (PRIOR PERMISSION REQUIRED) FACILITY
NFPA PUBLICATION #418; HELIPOINTS CLASSIFICATION:
 TO BE DETERMINED
GEOGRAPHIC COORDINATES (NAD 83) AT HELIPAD:
 LATITUDE: 32 38 55 NORTH / LONGITUDE: 117 06 57 WEST
LOCAL MAGNETIC DECLINATION (NEAREST DEGREE)
 11 DEGREES EAST (ROUNDED TO NEAREST DEGREE)
APPROACH COURSE ALIGNMENT (ADVISORY ONLY)
 20 TRUE / 9 MAGNETIC
DEPARTURE COURSE ALIGNMENT (ADVISORY ONLY)
 200 TRUE / 189 MAGNETIC
FATO - FINAL APPROACH / TAKE OFF AREA
 1-1/2' D' (128R DIAMETER AS SHOWN ON PRELIM PLAN)
TLOF - TOUCH DOWN AND LIFT OFF AREA
 100' X 100' SQUARE AREA (LOAD BEARING AREA)
SAFETY AREA WIDTH (OUTSIDE FATO PERIMETER)
 *ADVISORY: 1/2 D OR NOT LESS THAN 30ft.
TOTAL UNOBSTRUCTED WIDTH (TLOF AREA)
 100R X 100R. CLEAR
TLOF SURFACE MATERIAL:
 NEW 8" THICK CONCRETE SLAB (MEDIUM BROOM FINISH);
 REINFORCING BARS @ 18" O/C.
 AND SILICONE SILICATE SOLUTION REQUIRED AS SHOWN ON PLAN.
 NOTE: THE WHARF IS ASSUMED LOAD-BEARING AREA WITHIN THE TLOF.
 REFER TO ENGINEER'S PLAN FOR CONCRETE LOADING CALCULATIONS.
TLOF SURFACE GRADIENT:
 < 2% NORTHERLY DOWNSLOPE DIRECTION FOR DRAINAGE.
 *NO OBJECTS ALLOWED ABOVE THE TLOF ELEVATION
 WITHIN THE FATO OR SAFETY AREA PRIOR TO AIRCRAFT OPERATIONS.
 (EXCEPT MIN. HEIGHT FOR PERIMETER LIGHTING)
PREVAILING WIND DIRECTION:
 WESTERLY
HELIPAD ELEVATION:
 13R. MSL ASSUMED FOR REFERENCE ONLY (SEE PRELIM PLAN)



DESIGN HELICOPTER
 BELL/BOEING V-22 OSPREY



HELIPAD STRIPING DETAIL
 V-22 OSPREY



HELIPAD SODIUM SILICATE SOLUTION

10' X 20' AREA REQUIRING SODIUM SILICATE SOLUTION ON EXISTING CONCRETE. GOING FROM THE CENTER OF EACH NACELLE. 7/8" WOULD BE INBOARD, 1/8" OUTBOARD UNDER EACH NACELLE.
 10' AREAS 10' X 20' REQUIRE TREATMENT.

LEGEND
 W1 LIGHTED WINDCONE W/ RED OBSTRUCTION LIGHT (FEC HELIPOINTS MODEL HP-0908—16-LED OR EQUIVALENT)
 FE PORTABLE FIRE EXTINGUISHER (RATING 10-A, 120-BC RATING PER COMBINED NFPA 14 AND CALIFORNIA FIRE CODE STANDARDS)
 LOAD BEARING FOR THE PROPOSED TLOF DELINEATION

THE PASHA HELIPAD / HELISTOP APPROACH AND TRANSITIONAL SURFACE PENETRATION EVALUATIONS
 REFERENCE HELIPAD ELEVATION @ 13' MSL.

ITEM #	ITEM NAME	ITEM ELEVATION	Approach or Transitional Surface Elevation	CLEAR BY PENETRATION	CORRECTIVE ACTION
P1	Light Standard	61' MSL	53' MSL	8'	To Be Determined Optional RED obstruction light/top No Action at this time.
P2	Light Standard	61' MSL	53' MSL	8'	To Be Determined Optional RED obstruction light/top No Action at this time.
P3	Light Standard	61' MSL	13' MSL	48'	Remove Light Standard and Finish surface flush to grade
P4	Light Standard	71' MSL	63' MSL	8'	To Be Determined Optional RED obstruction light/top No Action at this time.
G1	Gutter Drain And Metal Grate	13' MSL	13' MSL	0'	Gutter Drain at Grade may not Support the static loading of The Osprey V-22 (verify) No Action at this time.
B1	San Diego Bay / MSL	0' MSL	0' MSL	13'	No Action at this time VTOL only allowed
C1	Cars at the Port	21' MSL	13' MSL	8'	Remove all vehicles in the FATO prior to aircraft operations Confirm w ground crew prior to take-off and landing. Secure area.
S1	Ship at Port	Varies to +200'	13' MSL	187' ++	No aircraft operation while ship is At the Wharf
W1	Lighted Wind Cone	TBD	TBD	TBD	Red NAV. LED obstruction light atop Lighted Wind Cone
LT	Log/Timber	14' MSL	13' MSL	1'	To Be Determined No Action at this time.

HELIPORT LAYOUT PLAN SCALE: 1/20
 PORT OF SAN DIEGO

REVISIONS	BY

WWW.JTPLANS.COM
 California Office
 1330 Helton Ave.
 Vista, CA 92081
 Arizona Office
 5906 Highlander Ave.
 Lake Havasu City, AZ 86406
 HELIPORT DESIGN / PLANNING / FACILITIES
 E: info@jtplans.com
 C: (760) 235-9394

REGISTERED CONTRACTOR
 JOHN TAYLOR
 Lic. 972815
 12/4/21
 STATE OF CALIFORNIA

PASHA HELIPAD
 NATIONAL CITY MARINE TERMINAL
 PORT OF SAN DIEGO
 HELIPAD LAYOUT PLAN
 DESIGN HELICOPTER
 V-22 OSPREY

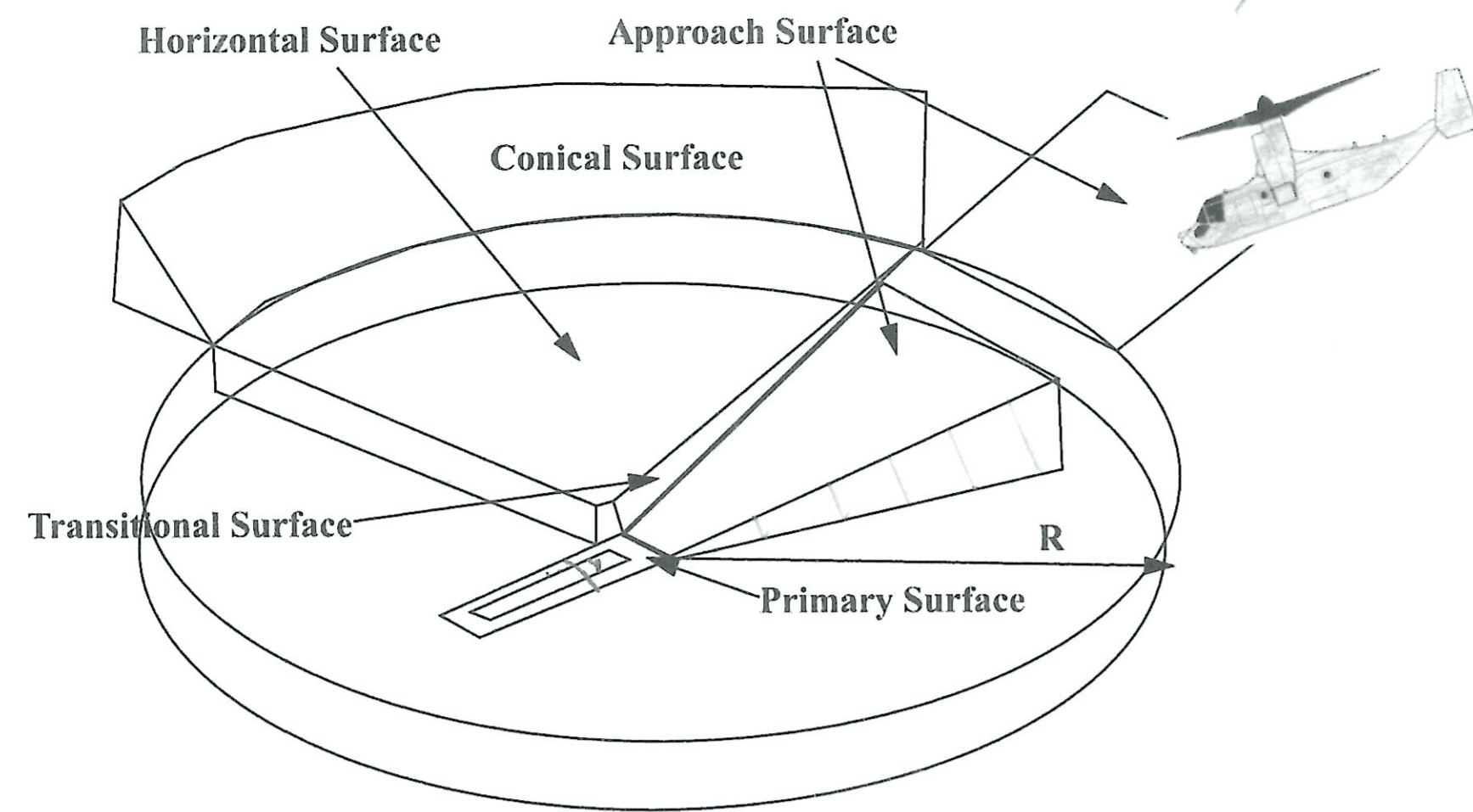
THE PASHA GROUP
 2400 BAY MARINA DRIVE
 NATIONAL CITY, CA 91950

DRAWN
 John Taylor
 CHECKED

DATE
 12/4/21
 SCALE
 1/20

SHEET NO.
 Pasha Helipad
 SHEET

HLP 1
 OF SHEETS



GRAPHICAL DEPICTION

THE PASHA HELIPAD / HELISTOP
 APPROACH AND TRANSITIONAL SURFACE PENETRATION EVALUATIONS
 REFERENCE HELIPAD ELEVATION @ 13' MSL

ITEM #	ITEM NAME	ITEM ELEVATION 61' MSL	Approach or Transitional Surface Elevation 53' MSL	CLEAR BY	PENETRATION	CORRECTIVE ACTION
P1	Light Standard				8'	To Be Determined Optional RED obstruction light/top No Action at this time
P2	Light Standard	61' MSL	53' MSL		8'	To Be Determined Optional RED obstruction light/top No Action at this time
P3	Light Standard	61' MSL	13' MSL		48'	To Be Determined Optional RED obstruction light/top No Action at this time
P4	Light Standard	71' MSL	53' MSL		8'	To Be Determined Optional RED obstruction light/top No Action at this time
G1	Gutter Drain And Metal Grate	13' MSL	13' MSL	0'	0'	Gutter Drain at Grade may not Support the static loading of The Osprey V-22 (verify) No Action at this time
B1	San Diego Bay / MSL	0' MSL	0' MSL		13'	No Action at this time VTOL only allowed
C1	Cars at the Port	21' MSL	13' MSL		8'	Remove all vehicles in the FATO prior to aircraft operations Confirm w/ ground crew prior to take-off and landing. Secure area.
S1	Ship at Port	Varies to +200	13' MSL		187' ++	No aircraft operation while ship is At the Wharf
W1	Lighted Wind Cone	TBD	TBD		TBD	Red NAV. LED obstruction light atop Lighted Wind Cone
LT	Log/Trimmer	14' MSL	13' MSL		1'	To Be Determined No Action at this time

HELIPAD SPECIFIC INFORMATION BOX

CAUTION- EXISTING SITE CONDITIONS AT PASHA SHIPYARD THE PASHA FACILITY IS A FULL-TIME, 24/7 OPERATIONAL FACILITY. (NOT A HELIPORT) INFORMATION CONTAINED HEREIN PROVIDES PRELIMINARY EXISTING SITE INFORMATION FOR THE PROPOSED HELIPAD/HELISTOP. THIS IS NOT FINAL SERVICE HELIPAD FACILITY. NO FUELING OPERATIONS, PRIOR TO LANDINGS AND TAKE OFF'S. THIS HELIPAD MUST BE MONITORED BY A GROUND CREW TO ENSURE SAFETY. SECURE THE FATO AND TLOF ZONES PRIOR TO TAKE-OFF AND LANDING AIRCRAFT. ALL INFORMATION, COORDINATES, APPROACH AND DEPARTURE ROUTES ARE PRELIMINARY AND SHOULD BE REVISED BY AIRCRAFT OPERATOR PRIOR TO APPROACH AND LANDING AT THIS SITE. THERE ARE LARGE SHIPS THAT USE THE WHARF AREA AND LANDINGS OR TAKE OFF'S SHOULD NOT OCCUR WHEN ANY SHIP IS IN PORT. THIS IS A PPR HELIPAD (PRIOR PERMISSION REQUIRED) AND ONLY VTOL (VERTICAL TAKE OFF AND LANDING) OPERATIONS AVAILABLE AT THIS SITE.

HELIPAD NAME AND ELEVATION:
 PASHA HELIPAD / 13' MSL
 HELIPAD ADDRESS:
 140 32ND STREET
 NATIONAL CITY, CA 91950

USAGE:
 PRIVATE (MILITARY USE ONLY), DAY USE ONLY AT THIS TIME
 PRIOR PERMISSION REQUIRED

FAA / HELIPORT DESIGN ADVISORY CIRCULAR:
 AC 150/5300-2C, FOR REFERENCE ONLY
 NOTE: THIS DOCUMENT USED AS REFERENCE ONLY

HELIPAD CLASSIFICATION:
 PPR (PRIOR PERMISSION REQUIRED) FACILITY
 NFPA PUBLICATION #418; HELIPORTS CLASSIFICATION:
 TO BE DETERMINED

GEOGRAPHIC COORDINATES (NAD 83) AT HELIPAD :
 LATITUDE: 32 58 55 NORTH / LONGITUDE: 117 06 57 WEST
 LOCAL MAGNETIC DELCINATION (NEAREST DEGREE)
 11 DEGREES EAST (ROUNDED TO NEAREST DEGREE)
 APPROACH COURSE ALIGNMENT (ADVISORY ONLY)
 20 TRUE / 9 MAGNETIC
 DEPARTURE COURSE ALIGNMENT (ADVISORY ONLY)
 200 TRUE / 189 MAGNETIC

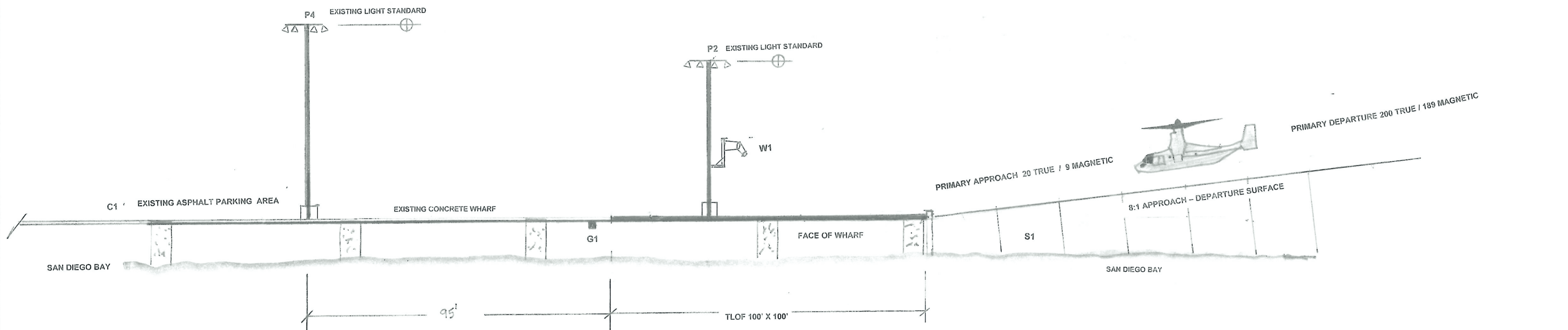
FATO - FINAL APPROACH / TAKE OFF AREA
 1-1/2' D' (128ft DIAMETER AS SHOWN ON PRELIM PLAN)
 TLOF - TOUCH DOWN AND LIFT OFF AREA
 100' X 100' SQUARE AREA (LOAD BEARING AREA)
 SAFETY AREA WIDTH (OUTSIDE FATO PERIMETER)
 *ADVISORY: 5' D OR NOT LESS THAN 30ft
 TOTAL UNOBSTRUCTED WIDTH (TLOF AREA)
 100ft X 100ft CLEAR

TLOF SURFACE MATERIAL:
 NEW 8" THICK CONCRETE SLAB (MEDIUM BROOM FINISH);
 W/ #4 REIN-ORING BARS @ 18" OC,
 AND SILICONE SILICATE SOLUTION REQUIRED AS SHOWN ON PLAN.
 NOTE: THE WHARF IS ASSUMED LOAD-BEARING AREA WITHIN THE TLOF
 REFER TO ENGINEER'S PLAN FOR CONCRETE LOADING CALCULATIONS.

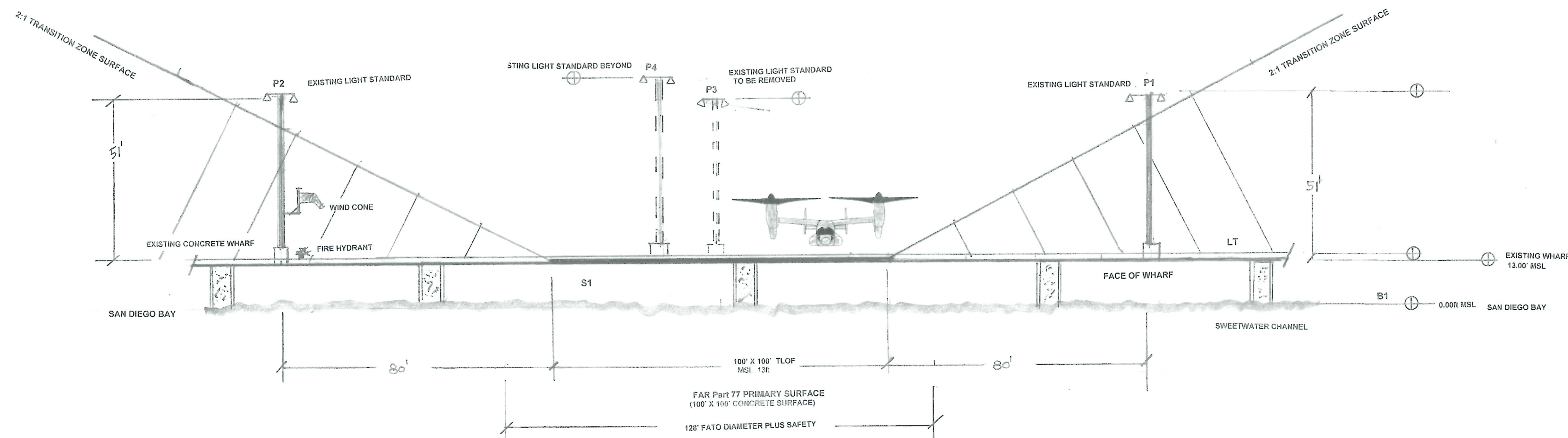
TLOF SURFACE GRADIENT:
 ≤ 2% NORTH TO SLOPE DIRECTION FOR DRAINAGE.
 *NO OBJECTS ALLOWED ABOVE THE TLOF ELEVATION
 WITHIN THE FATO OR SAFETY AREA PRIOR TO AIRCRAFT OPERATIONS.
 (EXCEPT 2' MIN. HEIGHT FOR PERIMETER LIGHTING)

PREVAILING WIND DIRECTION:
 WESTERLY

HELIPAD ELEVATION:
 13ft. MSL ASSUMED FOR REFERENCE ONLY (SEE PRELIM PLAN)



WEST ELEVATION SCALE 1:20



SOUTH ELEVATION SCALE 1:20

HELIPORT LAYOUT PLAN SCALE: 1/20
 PORT OF SAN DIEGO

PROPOSED:
 HELIPAD FOR V-22 OSPREY
 (SEE SHEET HLP 1 FOR DETAILS)

HELICOPTER DATA BOX

A Manufacturer name and helicopter model
 BELLBOEING V-22 OSPREY / TILT-ROTOR AIRCRAFT.

B Maximum takeoff weight in pounds.
 Vertical: 52,870lbs

D Overall length in feet. (Both Rotors at their maximum extension.)
 94'-7" (Fuselage: 57'-4")

H Overall height in feet. (Usually at tail rotor.)
 Spread Configuration: 22'-7" / Folded Configuration: 18ft
 RD Rotor diameter in feet.
 84'-7"

E Number of blades.
 (2) tilt rotor nacelles: Diameter 38 ft each / Diameter (3) each nacelle:
 Total Diameter: 94'-7"

F Rotor plane clearance in feet.
 To be Verified (22'-7" assumed)

TR Distance from rotor hub to tip of tail rotor in feet.
 N/A

I Tail rotor diameter (in feet).
 N/A

J Number of tail rotor blades.
 N/A

K Tail rotor ground clearance in feet.
 N/A

L Type of undercarriage.
 Wheels

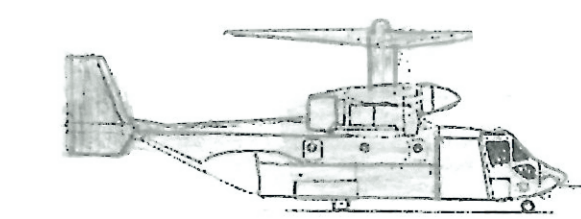
UCL Undercarriage length in feet.
 To be verified

UCW Undercarriage width in feet.
 To be verified

M Number and type of engines
 2 Allison T406-AD-400 engines

N Number of Basic Crew
 (1) Pilot, (1) Co-Pilot, (1) Crew Chief

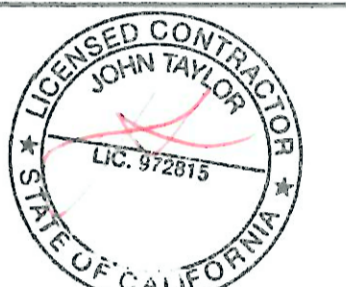
PASHA HELIPAD
 NATIONAL CITY MARINE TERMINAL
 PORT OF SAN DIEGO



DESIGN HELICOPTER
 V-22 OSPREY

REVISIONS	BY

WWW.ITPLANS.COM
 CALIFORNIA LICENSED CONTRACTOR
 JOHN TAYLOR
 LIC. 972615
 LICENSED CONTRACTOR
 STATE OF CALIFORNIA



SITE LAYOUT, ELEVATIONS
 REFERENCE TO THE DRAWINGS
 PASHA AUTOMOTIVE SERVICES
 140 32ND STREET
 NATIONAL CITY, CA 91950

PASHA AUTOMOTIVE SERVICES
 140 32ND STREET
 NATIONAL CITY, CA 91950

DRAWN JOHN TAYLOR
CHECKED
DATE 12/1/21
SCALE 1/20
JOB NO. PASHA HELIPAD
SHEET HLP 2
OF 3 SHEETS



PARTIAL SITE PLAN SCALE: 1/40

PROJECT INFO
 OCCUPANT:
 AIR METHODS / MERCY AIR
 AIR METHODS GROUP
 5500 S. QUEBEC STREET
 SUITE 300
 GREENWOOD VILLAGE, CO

MODEL CODES
 DOT - A.C. 150/5333-2C
 2019 CALIFORNIA BUILDING CODE
 2019 CALIFORNIA ELECTRIC CODE
 2019 PLUMBING CODE
 2019 NFPA 13D FIRE CODE

CODE ANALYSIS:
 PRIVATE HELIPAD / PRIOR PERMISSION REQUIRED
 PPR / GENERAL AVIATION
 PRIVATE, DAY/NIGHT OPERATION
 OCCUPANCY TYPE: "R-3" RESIDENTIAL CREW'S QUARTERS
 CONSTRUCTION TYPE: V-B / NON-RATED
 FIRE SPRINKLERS: YES / NFPA 13D SYSTEM
 JURISDICTION AUTHORITY / MODULAR BUILDING
 STATE APPROVED MODULAR BUILDING
 STATE APPROVED FOUNDATION
 STATE OF CALIFORNIA / DEP. OF HOUSING
 3737 MAIN ST
 RIVERSIDE, CA
 JURISDICTIONAL AUTHORITY / HELIPORT
 HELIPORT / HELIPAD
 STATE OF CALIF.
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF AERONAUTICS - M.S.#40
 1120 N STREET P. O. BOX 942873
 SACRAMENTO, CA 94273-9001 PHONE (916) 654-4959
 JURISDICTIONAL AUTHORITY / LOCAL
 COUNTY OF RIVERSIDE, BUILDING-PLANNING DEPT.
 COUNTY OF RIVERSIDE
 DEPT. OF ENVIRONMENTAL HEALTH
 RIVERSIDE, CA
 PARCEL MAP: #
 ASSESSOR PARCEL NUMBER #

SCOPE OF WORK:
 >ADD: (1) 24' x 60' x 14' STATE APPROVED MODULAR = 1,440 sq.ft.
 >ADD: (1) 8' x 40' x 8' STEEL STORAGE CONTAINER = 320 sq.ft.
 TOTAL SQ.FT. ADDED: 1,760 sq.ft.

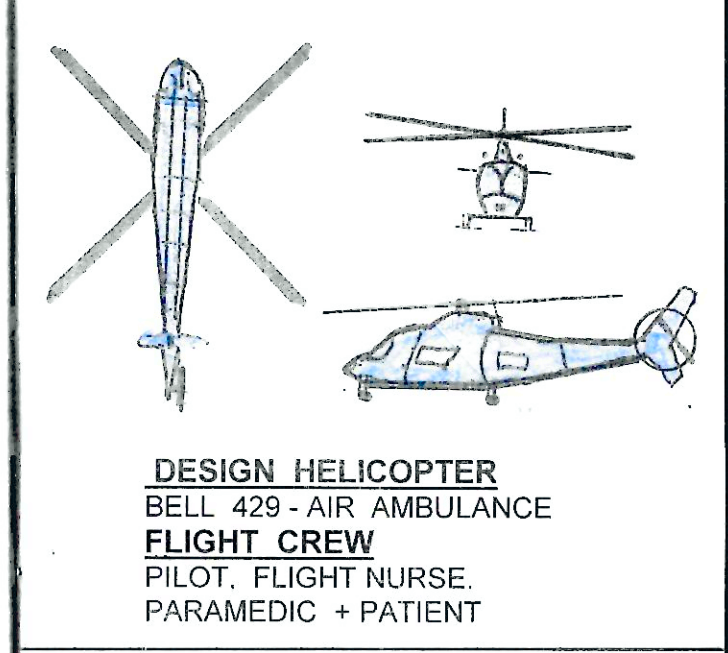
PROVIDE AND INSTALL SITE UTILITIES:
 POTABLE WATER-EASTERN MUNICIPAL WATER DISTRICT
 INCLUDE NFPA 13D FIRE SUPPRESSION SYSTEM
 SITE ELECTRIC MODULAR BUILDING ELECTRICAL SYSTEM
 400 AMP SERVICE
 120/240V, SINGLE PHASE, 3-WIRE SYSTEM W/ GROUND.
 NOTE: THIS FACILITY CAN ACCEPT EITHER
 SINGLE-PHASE OR THREE-PHASE SUPPLY
 ON SITE WASTEWATER SYSTEM
 PER RIVERSIDE COUNTY ENVIRONMENTAL HEALTH REQ'TS

IMPERVIOUS SURFACE CALCULATIONS

Modular Building (24' x 60')	1,440 sq.ft.
Container Bldg (8' x 40')	320 sq.ft.
Asphalt Parking lot (40' x 42')	1,680 sq.ft.
Asphalt walkways, metal a.d.a.	
Ramps, stairs	1,343 sq.ft.
Septic tank area, varies	150 sq.ft.
Total Impervious surface added	4,933 sq.ft.

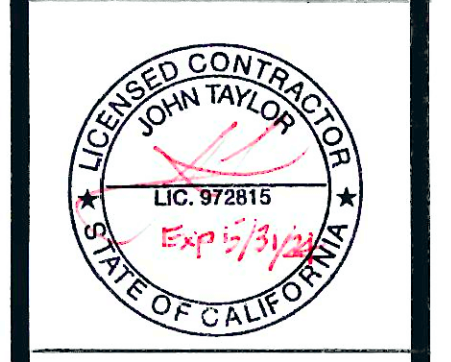
Note: 5,000 sq.ft. max. impervious surface allowed
 Note: The existing Helipad (impervious surface) will remain, adding asphalt overlay and Helipad Surface striping and markings. No change in square footage.

PLAN STATUS:
 6/4/22 - PRELIMINARY PLANS:
 INCOMPLETE PLAN SET



REVISIONS	BY

WWW.JTPLANS.COM
 California Office: Arizona Office
 1335 Hedionda Ave. 5765 Highland Ave.
 Vista, CA 92081 Laredo, TX 78040
 HELIPORT DESIGN / PLANNING / FACILITIES
 C: (760) 295-5894 E: info@jtplans.com



PARTIAL SITE PLAN
 PROJECT INFO
 SITE LAYOUT

MERCY AIR HELIPAD / HEMET
 4200 B' WALDEN WEAVER ROAD
 HEMET, CA 92345

DRAWN JOHN TAYLOR
CHECKED
DATE 6/3/22
SCALE 1/40
JOB NO. MERCY AIR
SHEET C-S
OF SHEETS

THIS DESIGN AND SPECIFICATIONS HEREIN ARE THE SOLE PROPERTY OF J.T. PLANS AND SHALL NOT BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT WRITTEN CONSENT FROM J.T. PLANS. CONFIDENTIAL. PROPRIETARY MATERIAL.

TRUE
MAGNETIC
NORTH

F.A.A. D.O.T.
COMPLIANT FACILITIES

ENGINEERS, CONTRACTORS, CONSULTANTS:
 PROJECT DESIGN/DRAFTING / FAA COMPLIANCE
 JOHN TAYLOR / WWW.JTPLANS.COM
 1335 HEDIONDA AVE.
 VISTA, CA 92081
 C (760) 275-5894
 E: info@jtplans.com

MERCY AIR HEMET-RYAN AIRPORT

SHEET INDEX

C-S - COVER SHEET, PARTIAL SITE PLAN, PROJECT INFORMATION, SCOPE-OF-WORK, AREA CALCULATIONS, JURISDICTION VICINITY MAP, IMPERVIOUS AREA CALCULATIONS

A-1 - ENLARGED SITE PLAN, DETAILS AND SPECIFICATIONS, PARKING, LAYOUT

E-2 - SITE ELECTRICAL, SINGLE-LINE DRAWING, PANEL SCHEDULES, TOTAL CONNECTED LOAD-CALCULATIONS, EQUIPMENT DETAILS AND SPECIFICATIONS.
 NOTE: THIS FACILITY CAN ACCEPT EITHER SINGLE-PHASE OR THREE-PHASE POWER SUPPLY.

ATTACHMENTS
 >MODULAR BUILDING PLANS, STATE APPROVED
 >MODULAR CONTAINER PLANS, STATE-APPROVED
 >OVERALL SITE PLAN / HEMET RYAN AIRPORT

