



DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION
OFFICE OF STATEWIDE HOSPITAL PLANNING AND DEVELOPMENT

APPLICATION FOR HCAI PREAPPROVAL OF
MANUFACTURER'S CERTIFICATION (OPM)

OFFICE USE ONLY

APPLICATION #: OPM-0772

HCAI Preapproval of Manufacturer's Certification (OPM)

Type: ☒ New ☐ Renewal/Update

Manufacturer Information

Manufacturer: Neopod Systems

Manufacturer's Technical Representative: Michael Miller

Mailing Address: 7850 Old Bastrop Rd, New Braunfels, TX 78130

Telephone: (512) 987-0097

Email: mmiller@neopodsystems.com

Product Information

Product Name: BPR51

Product Type: Factory Build Bathroom POD

Product Model Number: BPR51

General Description: Patient Bathroom

Applicant Information

Applicant Company Name: Neopod Systems

Contact Person: Michael Miller

Mailing Address: 7850 Old Bastrop Rd, New Braunfels, TX 78130

Telephone: (512) 987-0097

Email: mmiller@neopodsystems.com

Title: VPO

"A healthier California where all receive equitable, affordable, and quality health care"

STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY





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OFFICE OF STATEWIDE HOSPITAL PLANNING AND DEVELOPMENT

Registered Design Professional Preparing Engineering Recommendations

Company Name: FICCADENTI WAGGONER AND CASTLE STRUCTURAL ENGINEERS

Name: Michael Waggoner

California License Number: S3738

Mailing Address: 16969 Von Karmen, Suite 240, Irvine, CA 92614

Telephone: (949) 474-0502

Email: Mwaggoner@fwcse.com

Certification Method

Testing in accordance with: ☐ ICC-ES AC156 ☐ FM 1950 ☐ ASHRAE 171 ☐ FEMA 461

☐ Other(s) (Please Specify):

*Use of criteria other than those adopted by the California Building Standards Code, 2025 (CBSC 2025) for component supports and attachments are not permitted. For distribution system, interior partition wall, and suspended ceiling seismic bracings, test criteria other than those adopted in the CBSC 2025 may be used when approved by HCAI prior to testing.

☒ Analysis

☐ Experience Data

☐ Combination of Testing, Analysis, and/or Experience Data (Please Specify):

HCAI Approval

Date: 8/2/2026

Name: William Staehlin

Title: Senior Structural Engineer

Condition of Approval (if applicable):

"A healthier California where all receive equitable, affordable, and quality health care"

STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY



ABBREVIATIONS:

AB	ANCHOR BOLT
ABV	ABOVE
AC	ASPHALTIC CONCRETE
ACI	AMERICAN CONCRETE INSTITUTE
ADD	ADDITIONAL
ASCE	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
ASIS	AMERICAN IRON AND STEEL INSTITUTE
ATC	AMERICAN INSTITUTE OF TIMBER CONSTRUCTION
ALT	ALTERNATE
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
ARCH	ARCHITECT
ARCHL	ARCHITECTURAL
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AWWA	AMERICAN WOOD PRESERVERS ASSOCIATION
AWS	AMERICAN WELDING SOCIETY
IS	
BLDG	BUILDING
BLCK	BLOCK
BLKG	BLOCKING
BLW	BELOW
BM	BEAM
BOT OR B	BOTTOM
BN	BOUNDARY NAILING
BRG	BEARING
BRGC	BRACING
BS	BOTH SIDES
BWTR	BETWEEN
CANT	CANTILEVER
CB	CARRIAGE BOLT
CBC	CALIFORNIA BUILDING CODE
CC OR CC	CENTER TO CENTER
CEN	CONTINUOUS EDGE NAILING
CFP	COLD FORMED STEEL FRAMING
CIP	CAST IN PLACE
CJ	CONSTRUCTION JOINT/CONTROL JOINT, OR CEILING JOIST
CL	CENTER LINE
CLG	CEILING
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONF	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACTOR
CR	COLD ROLLED
DBL	DOUBLE
DEN	DISCONTINUOUS EDGE NAILING
DET	DETAIL
DIA OR Ø	DIAMETER
DIM	DIMENSION
DIR	DIRECTION
DF	DOUGLAS FIR
DJ	DECK JOIST
DKG	DECKING
DL	DEAD LOAD
DN	DOWN
DO	DITTO
DS	DOWN SPOUT
DWG	DRAWING
DWL	DOWEL
EA	EACH END
EE	EACH
EF	EACH FACE
EJ	EXPANSION JOINT
ELECTL	ELECTRICAL
ELEV	ELEVATION
EOS	EDGE OF SLAB
EQ	EQUAL
EQUIP	EQUIPMENT
ES	EACH SIDE
EW	EACH WAY
EXIST OR E	EXISTING
EXP	EXPANSION
EXT	EXTENSION
FND	FOUNDATION
FF	FINISH FLOOR
FG	FINISH GRADE
PH	FULL HEIGHT
FIN	FINISH
FJ	FLOOR JOIST
FLR	FLANGE
FLR	FLOOR
FN	FIELD NAILING
FOC	FACE OF CONCRETE
FOM	FACE OF MASONRY
FOS	FACE OF STUD
FP	FULL PENETRATION
FRMG	FRAMING
FS	FACE SIDE
FT	FEET OR FOOT
FTG	FOOTING
GA	GAUGE
GALV	GALVANIZED
GMB	GULLY/MAIN DRAIN
GR	GRADE
GYP BD	GYPSPUM BOARD
H	HEIGHT
HDR	HEADER
HGR	HANGER
HORIZ	HORIZONTAL
HSS	HIGH STRENGTH BOLT
HSS	HOLLOW STRUCTURAL SECTIONS
HT	HEIGHT
IBC	INTERNATIONAL BUILDING CODE
ICBO	INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS
ICC	INTERNATIONAL CODE COUNCIL
ID	INSIDE DIAMETER
IN	INCH OR INCHES
INSUL	INSULATION
INT	INTERIOR
INV	INVERTED/INVERT
JOIST	JOIST
JT	JOINT
K	KIP (1000 LBS)
L	LOW
LB	POUND
LG	LENGTH OR LONG
LL	LIVE LOAD
LH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LONGIT	LONGITUDINAL
LT	LIGHT
LT WT	LIGHT WEIGHT
LVL	LEVEL
MANUF	MANUFACTURER
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MB	MACHINE BOLT
MC	MISCELLANEOUS CHANNEL
MECHL	MECHANICAL
MEZZ	MEZZANINE
MIN	MINIMUM
MISC	MISCELLANEOUS
NIL	METAL
NIC	NOT IN CONTRACT
NOM	NORMAL
NSC	NEAR SIDE
NSFC	NOT SHOWN FOR CLARITY
NTS	NOT TO SCALE
# OR NO	NUMBER
OC OR OC	ON CENTER
OD	OUTSIDE DIAMETER
OH	OPPOSITE HAND
OPNG	OPENING
OS	OPPOSITE SIDE
OSHA	OCCUPATIONAL SAFETY AND HEALTH STANDARDS BOARD
OSHPD	OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT
OWJ	OPEN WEB JOIST
//	PARALLEL
PERP OR ⊥	PERPENDICULAR
PC	PRECAST
PG	PLATE GIRDER
PJ	POUR JOINT
PL	PLATE OR PROPERTY LINE
PLUMB	PLUMBING
PLUMB	PARTIAL PENETRATION
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	POST-TENSIONED OR PRESSURE TREATED
PWJ	PLYWOOD WEBBED JOIST
R OR RAFT	RATIER
RAD	RADIUS
RD	ROOF DRAIN
REINF	REINFORCED
REM	REMAINDER
REQD	REQUIRED
RJ	ROOF JOIST
RR	ROOF RAFTER
RT	ROOF TRUSS
SBC	STANDARD BUILDING CODE
SDSTS	SELF-DRILLING, SELF-TAPPING SCREWS
SECT	SECTION
SHT	SHEET
SM	SIMILAR
SMS	SHEET METAL SCREW
SPCG	SPECIFIC
SPEC	SPECIFICATION
SOG	SLAB ON GRADE
SO	SQUARE
SS	STAINLESS STEEL OR SELECT STRUCTURAL
STAGG	STAGGERED
STD	STANDARD
STIFF	STIFFENER
STL	STEEL
STRUCTL	STRUCTURAL
SUSP	SUSPENDED
SYM	SYMMETRICAL
TOP	TOP
T & B	TOP AND BOTTOM
T & G	TONGUE AND GROOVE
THK	THICK
TCC	TOP OF CONCRETE
TOP	TOP OF FOOTING
TOS	TOP OF STEEL
TRANS	TRANSVERSE
TS	STRUCTURAL STEEL TUBE
TSG	TAPERED STEEL GIRDER
TYP	TYPICAL
UBC	UNIFORM BUILDING CODE
UNO	UNLESS NOTED OTHERWISE
UT	ULTRASONIC TEST
VERT	VERTICAL
W	WITH
W/O	WITHOUT
WCSW	WOOD CHORD STEEL WEB
WCWW	WOOD CHORD WOOD WEB
WTS	WELDED THREADED STUDS
WTF	WELDED WIRE FABRIC
W/P	WORK POINT
X-STR	EXTRA STRONG
X-STR	DOUBLE EXTRA STRONG

STANDARD STUD IDENTIFICATION (SSMA NOMENCLATURE)

STUD IDENTIFICATION SHALL BE AS SHOWN:

1. MEMBER DEPTH:
(EXAMPLE: IF = 600/100 INCHES)
ALL MEMBER DEPTHS ARE TAKEN IN 1/100 INCHES.
FOR ALL "I" SECTIONS, MEMBER DEPTH IS THE INSIDE TO INSIDE DIMENSION.
2. STYLE:
(EXAMPLE: STUD OR JOIST SECTIONS = S)
THE FOUR ALPHA CHARACTERS UTILIZED BY THE DESIGNATOR SYSTEM ARE:
S = STUD
T = TRACK
U = CHANNEL SECTIONS
F = FURRING CHANNEL SECTIONS
3. FLANGE WIDTH:
(EXAMPLE: 150" = 1,625" = 162/100 INCHES)
ALL FLANGE WIDTHS ARE TAKEN IN 1/100 INCHES.
4. MATERIAL THICKNESS:
(EXAMPLES: 0.054" = 54 MIL, 1 MIL = 1/1000 INCHES)
MATERIAL THICKNESS IS THE MINIMUM BASE METAL THICKNESS IN MILS.
MINIMUM BASE METAL THICKNESS REPRESENTS 95% OF THE DESIGN THICKNESS.

1 2 3 4
600 S 162 - 54

MINIMUM REQUIRED STIFFENING LIP LENGTH	
FLANGE WIDTH	MIN STIFFENING LIP LENGTH (IN)
1 1/4"	0.188
1 3/8"	0.375
1 5/8"	0.500
2"	0.625
2 1/2"	0.625
3"	0.625
3 1/2"	1.000

PRO-X HEADER (NOMENCLATURE)

1 2 3 4
600 XTC 425 - 54

1. MEMBER DEPTH (WIDTH):
SEE ADDITIONAL INFORMATION ABOVE.
FOR ALL "X" & "XTC" SECTIONS, MEMBER DEPTH IS THE INSIDE TO INSIDE DIMENSION.
2. STYLE:
X = PRO-X OUTER
XT = PRO-X INSERT
XTC = PRO-X COMBO
CLIP = PRO-X CLIP
3. FLANGE WIDTH:
SEE ADDITIONAL INFORMATION ABOVE.
4. MATERIAL THICKNESS:
SEE ADDITIONAL INFORMATION ABOVE.

POST-INSTALLED ANCHOR TEST REQUIREMENTS:

1. EXPANSION ANCHORS INTO CONCRETE SHALL BE INSTALLED IN ACCORDANCE WITH THE ICC REPORT AND THE MANUFACTURER'S RECOMMENDATIONS.
2. ACCEPTABLE TEST METHODS (CBC 1910A.5)
A. TORQUE WRENCH METHOD: ANCHORS TESTED WITH A CALIBRATED TORQUE WRENCH MUST MEET THE TORQUE SPECIFIED IN THE TABLE BELOW WITHIN 1/2 TURN OF THE NUT OR HEAD

ANCHOR TYPE AND DIA.	MIN. EMBED	TORQUE LOAD (ft-lb)	NWC	LWC
3/8" Ø HILTI KB-T22	2 1/2"	30	30	
3/8" Ø DEWALT POWERSTUD-S02	2 1/2"	20	20	
3/8" Ø SIMPSON STRONG-BOLT 2	2 1/2"	50	30	
1/2" Ø HILTI KB-T22	2 1/2"	50	50	
1/2" Ø DEWALT POWERSTUD-S02	2 1/2"	40	40	
1/2" Ø SIMPSON STRONG-BOLT 2	2 1/2"	60	60	

NOTE: TORQUE LOAD AS REQUIRED PER CBC 1910A.5.2
3. TEST FREQUENCY
A. TEST 10% OF ALL ANCHORS INSTALLED INTO THE SILL OF FULL HEIGHT WALLS (CBC 1910A.5.3)
B. TEST 10% OF ALL ANCHORS INSTALLED INTO THE TOP OF FULL HEIGHT WALLS AS IDENTIFIED ON THE DRAWINGS (CBC 1910A.5.3, EXCEPTION 2)
C. TEST 50% OF ALL ANCHORS AT ALL OTHER LOCATIONS (CBC 1910A.5.3)
4. IF AN ANCHOR FAILS TESTING, TEST ALL ANCHORS OF THE SAME TYPE INSTALLED BY THE SAME TRADE AND NOT PREVIOUSLY TESTED UNTIL TWENTY (20) CONSECUTIVE ANCHORS PASS, THEN RESUME THE INITIAL TEST FREQUENCY (CBC 1910A.5.1)

GENERAL NOTES:

1. THIS OSHPD PRE-APPROVAL OF MANUFACTURER'S CERTIFICATION (OPM) IS BASED ON THE CBC 2025. THE DEMAND (DESIGN FORCES) FOR USE WITH THIS OPM SHALL BE BASED ON THE CBC 2025.
2. THESE DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. UNLESS OTHERWISE SHOWN THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE BUT ARE NOT LIMITED TO BRACING, SHORING OF LOADS DUE TO CONSTRUCTION EQUIPMENT, ETC. OBSERVATION VISITS TO THE SITE BY THE STRUCTURAL ENGINEER SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS.
3. GENERAL NOTES AND TYPICAL DETAILS APPLY TO THE DRAWINGS UNLESS OTHERWISE NOTED. SPECIFIC NOTES AND DETAILS ON THE DRAWINGS TAKE PRECEDENCE OVER THESE GENERAL NOTES AND TYPICAL DETAILS.
4. CONTRACTOR SHALL COORDINATE THE WORK OF ALL TRADES, AND VERIFY ALL DIMENSIONS PRIOR TO START OF CONSTRUCTION. NOTIFY THE ARCH. OF ANY DISCREPANCIES OR INCONSISTENCIES. DO NOT SCALE DRAWINGS.
5. FIELD SUBSTITUTION OF STEEL MATERIALS AND FASTENERS ARE NOT ALLOWED WITHOUT APPROVAL OF THE STRUCTURAL ENGINEER.
6. CONTRACTOR SHALL PROVIDE STATEMENT OF RESPONSIBILITY AS REQUIRED BY CBC SECTION 1704A.
7. THESE DRAWINGS AND SPECIFICATIONS APPLY TO THE STRUCTURAL ELEMENTS ONLY. ALL OTHER ARCHITECTURAL AND ENGINEERING SPECIFICATIONS, CALCULATIONS, AND JUDGEMENTS CAN BE FOUND IN THE ASSOCIATED PROJECT DOCUMENTS. FIXTURE TYPES, SIZES, DESIGN CRITERIA, AND ALL OTHER FEATURES ARE DICTATED BY THE PROJECT ENGINEERS AND NOT SELECTED BY NEOPOD SYSTEMS NOR THE STRUCTURAL ENGINEER ASSOCIATED WITH THIS SET OF DRAWINGS AND SPECIFICATIONS.
8. ALL NON-FRAMING COMPONENTS SHOWN IN THESE DRAWINGS ARE PLACEHOLDERS UNTIL SUCH COMPONENTS ARE DESIGNED BY THE PERSPECTIVE LICENSED ENGINEERS FOR THE PROJECT. NON-FRAMING COMPONENTS DESIGNED BY SPECIFIC PROJECT ENGINEERS SHALL SUPERSEDE THE INFORMATION SHOWN IN THESE DRAWINGS.
9. UNIT DEPICTED MAY EXIST AS MIRRORRED VERSION.
10. UNIT CANNOT BE INSTALLED IN A DESIGNATED/DEFINED ACCESSIBLE RESTROOM LOCATION. SEE PROJECT DOCUMENTS FOR THOSE DEFINED LOCATIONS.

TESTS AND INSPECTIONS:

1. SPECIAL INSPECTION BY A REGISTERED BUILDING INSPECTOR HIRED BY THE OWNER AND APPROVED BY OSHPD SHALL BE REQUIRED FOR THE FOLLOWING TYPES OF WORK. SEE PROJECT SPECIFICATIONS FOR SPECIFIC REQUIREMENTS.
A. STRUCTURAL STEEL AND FIELD WELDING.
B. INSTALLATION OF EXPANSION TYPE, SCREW TYPE, AND ADHESIVE TYPE BOLTS IN CONCRETE.
C. WELDING OF LIGHT GAUGE STUDS, JOISTS, AND ACCESSORIES.
D. PERIODIC INSPECTION OF EXTERIOR NON BEARING WALLS IN SEISMIC DESIGN CATEGORY D, E, OR F PER IBC SECTION 1705.1.5.3

DESIGN CRITERIA:

1. DESIGN IS IN ACCORDANCE WITH THE FOLLOWING CRITERIA:

DESIGN LOADS		
MAX POD WEIGHT		2,800 LBS
MINIMUM INTERNAL PRESSURE		5 PSF
CEILING LIVE LOAD		NOT PERMITTED
SHIPPING WIND LOAD		9.6 PSF
SEISMIC DESIGN CRITERIA		
SPECTRAL ACCELERATION	S _{DS}	1.75g MAX
ELEVATION / BUILDING HEIGHT	z _h	SEE SCHEDULE
SHORT PERIOD ACCELERATION	S _{D1}	NA
SEISMIC IMPORTANCE FACTOR	I _s	1.5
COMPONENT IMPORTANCE FACTOR	I _p	1.5
STRUCTURE DUCTILITY REDUCTION FACTOR	R _μ	1.3
COMPONENT RESPONSE DUCTILITY FACTOR	C _{AS}	1.4
COMPONENT STRENGTH FACTOR	R _{PO}	1.5
OVERSTRENGTH FACTOR (COMPONENT & CLADDING)	Ω _p	2
VERTICAL DEFLECTION LIMIT		3/4"
BRITTLE FINISHES DEFLECTION LIMIT		L/360
FLEXIBLE FINISHES DEFLECTION LIMIT		L/240

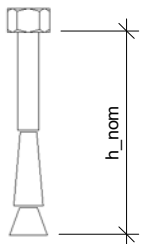
LIGHT GAUGE STEEL:

1. ALL WORK SHALL MEET THE REQUIREMENTS OF THE FOLLOWING STANDARDS:
A. AMERICAN IRON AND STEEL INSTITUTE (AISI) DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS.
B. AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM).
2. ALL STUD AND TRACK MATERIAL TO CONFORM TO THE FOLLOWING:
A. 54 MIL AND HEAVIER: 50 KSI MIN YIELD, 65 KSI MIN TENSILE STRENGTH ASTM A1003 STRUCTURAL GRADE 50 TYPE H (ST50H)
B. 43 MIL AND LIGHTER: 33 KSI MIN YIELD, 45 KSI MIN TENSILE STRENGTH ASTM A1003 STRUCTURAL GRADE 33 TYPE H (ST33H)
3. MISCELLANEOUS STEEL TO CONFORM TO THE FOLLOWING:
A. 30 MIL TO 43 MIL - 33 KSI MIN YIELD, 45 KSI MIN TENSILE
B. 54 MIL TO 118 MIL - 50 KSI MIN YIELD, 65 KSI MIN TENSILE
C. 316" AND HEAVIER - ASTM A36
4. ALL FRAMING COMPONENTS SHALL BE CUT SQUARELY OR ON AN ANGLE SUCH AS BRACING TO SQUARELY FIT AGAINST ADJUTING MEMBERS. MEMBERS SHALL BE FULLY IN POSITION UNTIL PROPERLY FASTENED.
5. ALL STUDS SHALL BE ATTACHED BY SCREWS UNLESS NOTED OTHERWISE. WIRE TYING OF FRAMING COMPONENTS IS NOT PERMITTED.
6. SPLICES IN TOP TRACK ARE REQUIRED WHERE TOP TRACK IS NOT ATTACHED TO A COMMON CONTINUOUS STRUCTURAL MEMBER AND SHALL ACCOMPANIED PER TYPICAL TRACK SPLICE DETAIL UNO.
7. SPLICES IN AXIAL LOADED STUDS OR BRACES ARE NOT PERMITTED. WHERE STUDS ARE BURNED THROUGH BY WELDING, PROVIDE SUITABLE STITCH PLATE OF THE SAME GAUGE.
8. UNLESS NOTED OTHERWISE, ALL TRACKS SHALL MATCH STUD SIZE AND GAUGE.
9. ALL CALCULATED STUD PROPERTIES PER AISI SPECIFICATION ARE BASED ON THE FOLLOWING THICKNESSES:
A. 118 MIL (10GA) 0.1242"
B. 97 MIL (12GA) 0.1017"
C. 68 MIL (14GA) 0.0713"
D. 54 MIL (16GA) 0.0566"
E. 43 MIL (18GA) 0.0451"
F. 33 MIL (20GA) 0.0346"
10. LATERAL BRIDGING FOR STEEL STUDS IS REQUIRED WHEN WALL BOARD INSTALLED IN ACCORD WITH AISI S211 SECTION B1 UNO. BRIDGING SHALL BE INSTALLED IN ACCORD WITH RELATED DETAILS.
11. TRACK SHALL BE PUNCHED WITH SIZE TO MATCH STUD FRAMING UNO.
12. UTILITY PUNCH HOLES IN STUDS SHALL BE LOCATED AWAY FROM CONNECTIONS. THE MINIMUM CLEAR DISTANCE FROM THE PUNCHOUT TO END OF MEMBER SHALL BE 10".
13. WALL STUD BRIDGING SHALL BE INSTALLED IN A MANNER TO PROVIDE RESISTANCE TO BOTH MINOR AXIS BENDING AND ROTATION.
14. AXIAL LOAD BEARING STUDS MUST BE FULLY SEATED INTO THE WALL TRACKS (1/16" MAXIMUM GAP BETWEEN THE STUDS AND TRACK WEBS).
15. OPENINGS IN STUD WEBS OTHER THAN STANDARD HOLES PUNCHED BY THE MANUFACTURER ARE PROHIBITED UNLESS SPECIFICALLY DETAILED.
16. ALL STEEL STUDS AND TRACKS SHALL BE MANUFACTURED BY A STEEL STUD MANUFACTURERS ASSOCIATION (SSMA) MEMBER, A CERTIFIED STEEL STUD ASSOCIATION (CSSA) MEMBER, OR A STEEL FRAMING INDUSTRY ASSOCIATION (SFAI) MEMBER UNLESS NOTED OTHERWISE. THE STEEL STUDS AND TRACKS SHALL ALSO CONFORM TO THE 2007 NORTH AMERICAN STANDARD FOR COLD-FORMED STEEL FRAMING - GENERAL PROVISIONS.
17. THESE DRAWINGS ASSUME THAT THE PRIMARY STRUCTURE INCLUDING ELEMENTS SUCH AS ROOF EDGE CLOSURES, SLAB CLOSURES, GIRTS, AND OTHER ELEMENTS INTENDED TO SUPPORT AND RESIST LOADS PRODUCED BY THE EXTERIOR FRAMING SYSTEM HAVE BEEN ADEQUATELY DESIGNED FOR THIS PURPOSE UNLESS SPECIFICALLY NOTED.
18. SCREWS MAY BE INSTALLED IN EITHER DIRECTION FROM THINNER PART TO THICKER PART UNO.

FASTENERS AND CONNECTORS					
CONNECTOR TYPE	SUBSTRATE	DESCRIPTION	PRODUCT	NOTED ON PLANS AS	GRAPHIC
SCREWS	METAL TRACK	#8 @ ≤ 43 MIL OR #10 AT ANY GAUGE UNO	HILTI SELF-DRILLING & SELF-PIERCING SCREWS	SMS	←
	STUD TO STUD	#8 @ ≤ 43 MIL OR #10 AT ANY GAUGE UNO	PRO-TWIST MARKER & DARTS SELF-DRILLING SCREWS PER ESR 1408 OR EQUAL		←
LOW VELOCITY FASTENERS	STRUCTURAL STEEL	0.157" Ø UNO	HILTI X-U PER ESR 2269	LVF	←
	CONCRETE	0.157" Ø x 1" EMBED UNO	HILTI KB-T22 PER ESR-4266 SIMPSON STRONG-BOLT2 PER ESR-1097 DEWALT POWER-STUD-S02 PER ESR-2502	EXP-ANCHOR	←
MECHANICAL ANCHORS	CONCRETE	3/8" Ø x 2 1/2" EMBED OR 1/2" Ø x 2 1/2" EMBED UNO			←

FASTENERS AND CONNECTORS:

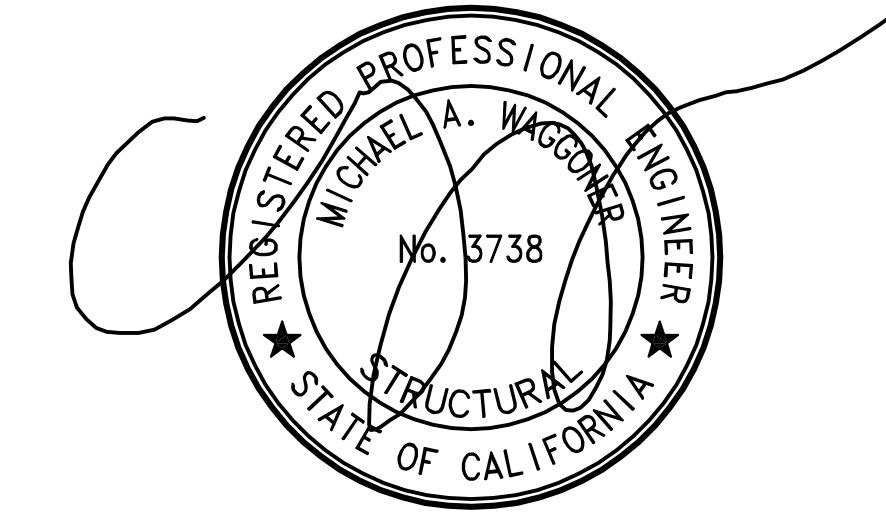
1. SEE PLANS FOR LOCATIONS AND QUANTITY OF CONNECTIONS.
2. ALL FASTENERS SHALL BE THE MIN SIZE AND EMBEDMENTS OF THE ABOVE CHART UNO IN THE PLANS.
3. ALL FASTENERS SHALL BE INSTALLED IN ACCORDANCE WITH THE NOTED ESR REPORT AND THE REQUIREMENTS OF THE GOVERNING AUTHORITY.
4. SCREWS LISTED IN THE ABOVE CHART SHALL BE SUFFICIENT LENGTH TO ENSURE PENETRATION INTO STEEL STUD BY AT LEAST 3 FULL DIAMETER THREADS.
5. FOR MECHANICAL ANCHORS, THE EMBEDMENTS LISTED IN THE ABOVE CHART IS THE HTE NOMMAL EMBEDMENT, h_{nom}, AS IN THIS DIAGRAM:



6. WHERE LVF ARE INSTALLED INTO STEEL GREATER THAN 1/2" THICK WHERE THE TIP OF FASTENER CANNOT PENETRATE THE STEEL, PROVIDE A MIN 1/2" POINT PENETRATION INTO STEEL.
7. SCREWS MAY BE INSTALLED IN EITHER DIRECTION FROM THINNER PART TO THICKER PART UNO.



7850 Old Bastrop Road, New Braunfels, TX 78130
(954) 603-3100
neopodsystems.com



OSHPD APPROVAL:

SHEET INDEX

Sheet Number	Sheet Name
S0.0	General Notes
S1.0	Structural Floor Plan
S1.1	Structural Ceiling Plan
S2.0	Additional Details
S2.1	Additional Details

REVISIONS:

NO.	DESCRIPTION	DATE
V1	Seismic Design & Calculations Package	03/02/2025
V2	HCA Comment Review	05/05/2025

CLIENT NAME:

HCA

PROJECT NAME:

CA BPR51

SHEET NAME:

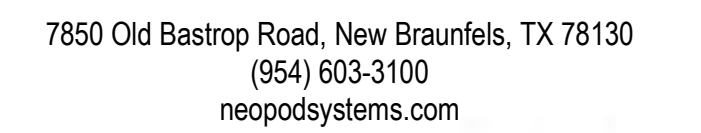
General Notes

PROJECT NUMBER: BPR51-PRM25 DATE: 05/07/2026

CHECKED BY: FWC SE DRAWN BY: Neopod Systems

SHEET NUMBER:

S0.0



STRUCTURAL
ENGINEER

[illegible]

CLIENT NAME:

HCA

PROJECT NAME:

CA BPR51

SHEET NAME:

Structural Floor Plan

PROJECT NUMBER:	BPR51-PRM25
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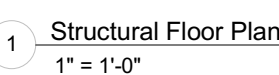
05/07/2020

CHECKED BY: FWC SE

RAWN BY: Neopod Systems

SHEET NUMBER:

S1.0



FINISH MATERIAL REQUIREMENTS:

FLOOR FINISHES SHALL COMPLY WITH 1224.4.11.1 INCLUDING BUT NOT LIMITED TO

- 1224.4.11.1.1 FOR COVERED BASE
- 1224.4.11.1.3 WET CLEANING, FLOORING MATERIALS SHALL NOT BE PHYSICALLY AFFECTED BY GERMICIDAL OR OTHER TYPES OF CLEANING SOLUTIONS
- INTENDED FLOOR MATERIAL IS MANNINGTON BIOSPEC SR, SLIP RESISTANT SHEET VINYL WITH INTEGRAL COVE

WALL FINISHES SHALL COMPLY WITH 1224.4.11.3 INCLUDING BUT NOT LIMITED TO:

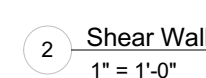
- 1224.4.11.3.1 WALLS SHALL BE WASHABLE. IN THE VICINITY OF PLUMBING FIXTURES, WALL FINISHES SHALL BE SMOOTH, SCRUBABLE AND WATER-RESISTANT.
- 1224.4.11.3.5 WALL AREAS PENETRATED BY PIPES, DUCTS, AND CONDUITS SHALL BE TIGHTLY SEALED TO MINIMIZE ENTRY OF RODENTS AND INSECTS.

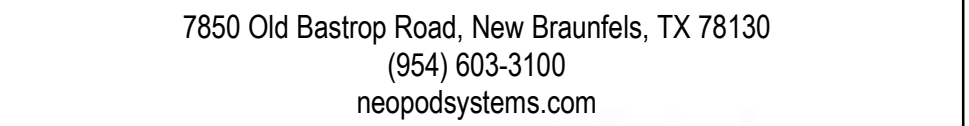
- NOTE, FACTORY FINISH IS PRIMED WALLS READY FOR PAINT.

- NOTE, FACTORY FINISH IS PRIMED WALLS READY FOR PAINT.
- INTENDED WALL FINISH IS SHERWIN WILLIAMS PRE-CATALYZED EPOXY PAINT
- ALL PENETRATIONS SEALED AT FACTORY WITH SILICONE, ACOUTSICAL, OR FIRE/SMOKE SEALANT AS APPROPRIATE.

NOTES:

1. SCREWS IN THE FIELD SHALL BE INSTALLED PER SCHEDULE.
2. PANEL EDGES BLOCKED WHERE EXISTS. PANELS SHOULD BE INSTALLED VERTICALLY.
3. EDGE SCREW MULTIPLE STUDS AT HOLDDOWNS PER PANEL EDGE FASTENERS SCHEDULE UNO.
4. VERIFY STUD GAUGE W/ PLAN SCHEDULES. NOTIFY ENGINEER IF A DISCREPANCY OCCURS.





**FICCADENTI
WAGGONER
and CASTLE**
Structural Engineers

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HCA

CA BPR51

Structural Ceiling Plan

PROJECT NUMBER: BPR51-PRM25	DATE: 05/07/2026
CHECKED BY: FWC SE	DRAWN BY: Neopod Systems
SHEET NUMBER:	

S1.1

