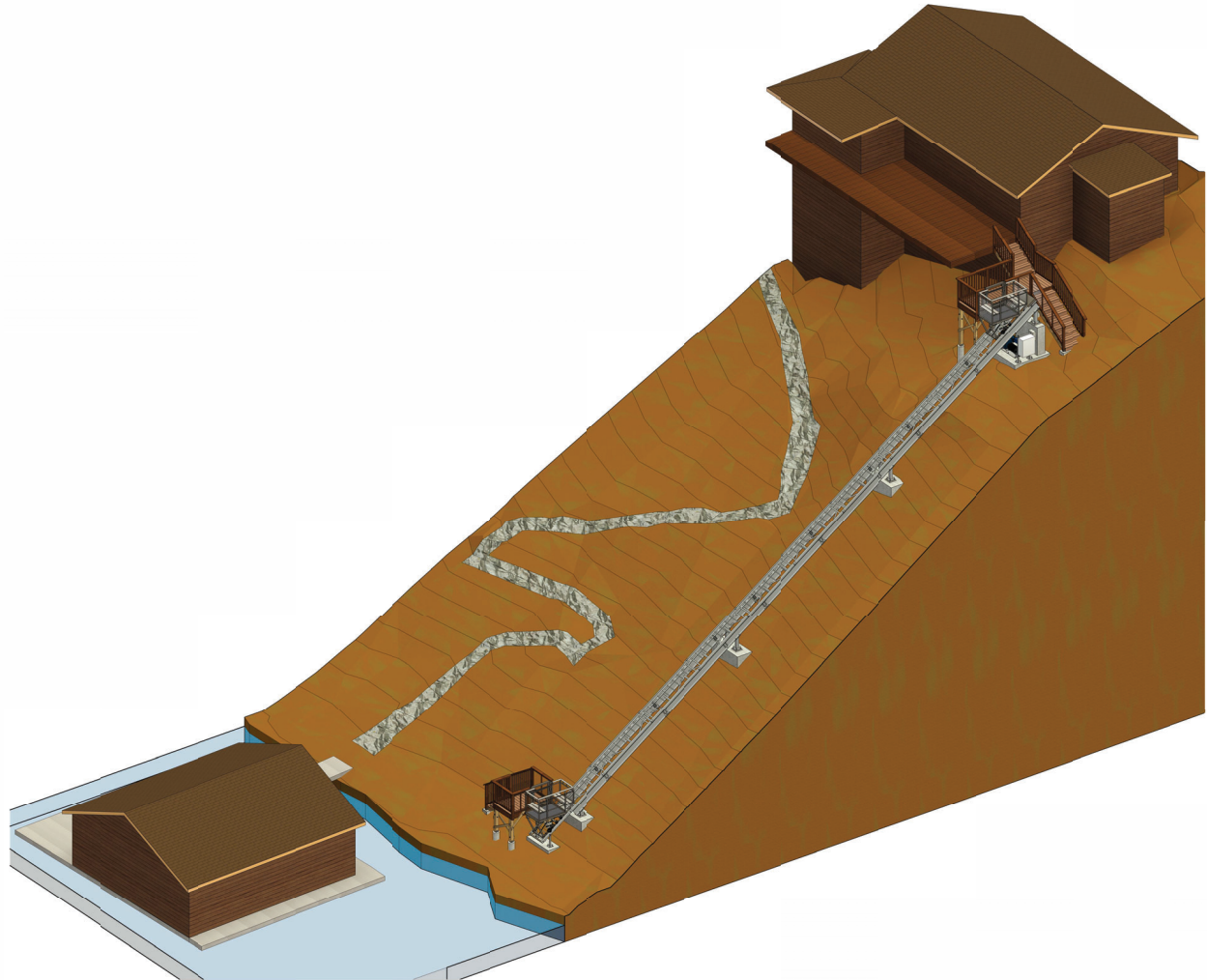


HILL HIKER INCLINE ELEVATOR PLOWSHAY RESIDENCE GRAND LAKE, CO



HILL HIKER INCLINED ELEVATOR GENERAL EQUIPMENT SPECIFICATIONS

PROJECT	HH #	2023-27
	NAME	PLOWSHAY
	JOB SITE ADDRESS	1532 GRAND AVE GRAND LAKE, CO 80447
MATERIAL SPECIFICATIONS		
	A. STEEL SHALL CONFORM TO ASTM A240 P43 200 PSI	
	B. MACHINE BOLTS SHALL BE GRADE 18-8 STAINLESS STEEL	
	C. WELDING SHALL USE E71T-11 AWS CLASSIFICATION	
GENERAL INFORMATION		
	RATED SPEED	54 FPM APPROX.
	ANGLE OF INCLINE	34.5 DEG. APPROX.
	TRACK LENGTH	103 FT. APPROX.
LOADS		
	CAR/CHASSIS WEIGHT	700 LBS.
	RATED LOAD	800 LBS.
DRIVE SYSTEM		
	DRIVING MEANS	WINDING DRUM DRIVE
	INPUT POWER	SINGLE PHASE, 220-240V, 60HZ
	MOTOR	5 HP
	GEAR BOX	100:1 RATIO
	BRAKE	AC ELECTRO MAGNETIC BRAKE ON MOTOR
CAR ROPES		
	NUMBER OF DRIVE ROPES	1
	RATED BREAKING STRENGTH	14,400 LBS. PER ROPE
	TYPE, SIZE & MATERIAL	7 X 19 - 38 IN. DIA. GALVANIZED AIRCRAFT CABLE
MOTOR AREA		
	MACHINERY WORKSPACE TYPE	OPEN SPACE
	DISCONNECT IN SIGHT OF MOTOR	YES
	DISCONNECT WITHIN REACH OF PANEL	YES
CAR		
	FRAME MATERIAL	STEEL
	WALL MATERIAL	POLYCARBONATE PANELS (ANSI Z97.1)
	HEIGHT OF CAR	42 IN.
	OUTSIDE CAR WIDTH	43 IN.
	OUTSIDE CAR LENGTH	71.58 IN.
	PLATFORM MATERIAL	MAINTENANCE GRADE ADA ACCEPTABLE NON-SLIP FIBER-GRATE FLOORING
ELEVATOR CONTROLLER/CONTROLS		
	APPROVALS	UL LISTED / CERTIFIED
	WEATHER RATING	NEMA 4X
	VARIABLE FREQUENCY DRIVE	VARIABLE SPEED AC MOTOR CONTROL WITH SOFT START/STOP SLOW DOWN ON BOARD CAR AND AT EACH LANDING STATION WITH SECURITY
	CALL STATIONS	
SAFETY SYSTEM		
	EMERGENCY STOP BUTTONS	TOP, BOTTOM AND ON-BOARD THE CAR
	TRACK SYSTEM	CAPTURED RAIL DESIGN
	SLACK CABLE SYSTEM	AT MOTOR AND ON-BOARD CAR
	OVER-SPEED CENTRIFUGAL GOVERNOR	LOCATED ON CAR
	SPRING BUFFER	LOCATED ON TRACK
	SECURITY	KEYED OR KEYLESS KEY CODE SECURITY
	LIMIT SWITCHES	DECELERATION, DIRECTIONAL & TERMINAL SWITCHES AT TOP & BOTTOM OF HILL
	ELECTRICAL	DISCONNECT WITH LOCK OUT TAG OUT, LOW VOLTAGE SWITCHES AND CONTROLS
	GATES	SHUTOFF SWITCHES ON CAR AND LANDING STATION GATES



PROJECT:
INCLINE ELEVATOR
PLOWSHAY RESIDENCE
1532 GRAND AVE
GRAND LAKE, CO 80447

NO.	DATE	ISSUE/REVISION	BY
A	07/28/23	ISSUED FOR PRELIM REVIEW	DLF
B	07/31/23	ISSUED FOR PRELIM REVIEW	DLF
C	08/02/23	ISSUED FOR PRELIM REVIEW	DLF
D	11/06/23	ISSUED FOR REVIEW	EJE
E	02/05/24	ISSUED FOR REVIEW	EJE
F	05/14/24	ISSUED FOR PERMIT	EJE



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HILL HIKER PROVIDED MATERIALS LIST					
ITEM	DESCRIPTION	QUANTITY	PROVIDED BY	INSTALLED BY	NOTES
1	3x4-HILL HIKER CAR W/ CHASSIS	1	HH	HH	SEE SHEET S15
2	3'-0" W x 10'-0" L HILL HIKER TOP TRACK SEGMENT	1	HH	HH	
3	3'-0" W x 10'-0" L HILL HIKER TRACK SEGMENT	8	HH	HH	
4	3'-0" W x 7'-0" L HILL HIKER TRACK SEGMENT	1	HH	HH	
5	3'-0" W x 6'-0" L HILL HIKER TRACK SEGMENT	1	HH	HH	
6	DEFLECTION SHEAVE W/ COVER	1	HH	HH	INSTALLED IN TOP TRACK SEGMENT, SEE 8/S13 & 9/S13
7	STOP BAR	1	HH	HH	INSTALLED IN BOTTOM TRACK SEGMENT, DESIGN BY HH
8	HSS2X2 POSTS W/ BASE PLATES & ANCHORAGE	1	HH	HH	
9	3/8" DIA DRIVE CABLE	2	HH	HH	
10	WINDING DRUM DRIVE MACHINE W/ BASE PLATE	1	HH	HH	
11	(6) 5/8" DIA ANCHOR RODS FOR ITEM #10	1	HH	HH	POST-INSTALLED ANCHORS, SEE PLAN 2/S3
12	HILL HIKER CALL STATION	2	HH	HH	(1) @ BOTTOM LANDING & (1) @ TOP LANDING
13	HILL HIKER CONTROL BOX W/ ANCHORAGE	1	HH	HH	DESIGN BY HH
14	HILL HIKER LANDING GATE	2	HH	HH	(1) @ BOTTOM LANDING & (1) @ TOP LANDING, SEE SHEET S14

*NOTE: ALL OTHER ITEMS SHOWN IN THESE DRAWINGS SHALL BE PROVIDED AND INSTALLED BY THE GENERAL CONTRACTOR.

DRAWING INDEX	
SHEET	TITLE
CS1	COVER SHEET - HH SPECS & PROVIDED MATERIALS LIST, DRAWING INDEX, & ABBREVIATIONS
S0	STRUCTURAL NOTES
S1	SITE PLAN & OVERALL PLAN
S2	OVERALL ELEVATION
S3	EQUIPMENT PLANS, SECTIONS, & DETAILS
S4	SUPPORT PLANS & SECTIONS
S5	STEEL FRAMING PLAN & CONNECTION DETAILS
S6	TOP LANDING PLANS
S7	TOP LANDING ELEVATIONS
S8	TOP LANDING ELEVATIONS
S9	BOTTOM LANDING PLANS
S10	BOTTOM LANDING ELEVATIONS
S11	BOTTOM LANDING ELEVATIONS
S12	WOOD CONNECTION DETAILS
S13	PIER & LANDING GATE DETAILS
S14	TRACK DETAILS
S15	HILL HIKER CAR

ABBREVIATIONS			
ADBL	ADDITIONAL BALUSTER	IF	INSIDE FACE
BL	BOTTOM	LH	LEFT HAND
BM	BEAM	LOC(S)	LOCATION(S)
CL	CENTERLINE	LSH	LONG SIDE HORIZONTAL
COL	COLUMN	LSV	LONG SIDE VERTICAL
CONC	CONCRETE	MAX	MAXIMUM
CONT	CONTINUOUS	MIN	MINIMUM
CTR	CENTERED	MNS	NOT TO SCALE ON CENTER
DBL	DOUBLE	OP	OPPOSITE
DIA	DIAMETER	OPF	OUTSIDE FACE
DWLS	DOWELS	OPP	OPPOSITE
EA	EACH	PB	POST BASE
EF	EACH FACE	PL	PROPERTY LINE OR PLATE
EL	ELEVATION	PROJ	PROJECTION
EQA	EQUAL	REQD	REQUIRED
EW	EACH WAY	RH	RIGHT HAND
FDN	FOUNDATION	SM	SIMILAR
FLR	FLOOR	SPECS	SPECIFICATIONS
FTG	FOOTING	T	TYPICAL
FV	FIELD VERIFY	TM	TRACK MATE
GC	GENERAL CONTRACTOR	UNO	UNLESS NOTED OTHERWISE
HH	HILL HIKER	VERTS	VERTICAL REBAR
HORIZ	HORIZONTAL REBAR		

DATE:	07/28/23	DESIGNED:	CRG/APP
DRAWN:	DLF	CHECKED:	APP/KFB
		APPROVED:	MCM

DRAWING TITLE:
COVER SHEET - HH SPECS & PROVIDED MATERIALS LIST, DRAWING INDEX, & ABBREVIATIONS

PROJECT NO:	230576	DRAWING NO.:	CS1
SCALE:	AS NOTED		

STRUCTURAL NOTES

- 1 **INTERNATIONAL BUILDING CODE:**
- 1.1 2015 INTERNATIONAL BUILDING CODE (IBC) IN CONJUNCTION WITH ASME/E.1-2013 CSA B44-13 SECTION 5.4 PRIVATE RESIDENCE INCLINED ELEVATORS
- 2 **DESIGN LOADS:**
- 2.1 CAR LOADS:
 - DEAD 700 LBS
 - LIVE 800 LBS
- 2.2 WIND:
 - BASIC WIND SPEED, V 115 MPH ULTIMATE
 - RISK CATEGORY II
 - EXPOSURE C
- 2.3 SEISMIC DATA:
 - SITE CLASS D
 - RISK CATEGORY II
 - IMPORTANCE FACTOR, I 1.0
 - MAPPED SPECTRAL RESPONSE COEFFICIENT, S_s 0.222 g
 - MAPPED SPECTRAL RESPONSE COEFFICIENT, S₁ 0.069 g
 - DESIGN SPECTRAL RESPONSE COEFFICIENT, S_{ds} 0.37 g
 - DESIGN SPECTRAL RESPONSE COEFFICIENT, S_{d1} 0.105 g
 - SEISMIC DESIGN CATEGORY B
- 3 **GENERAL NOTES:**
- 3.1 CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION AND FOR THE SAFETY OF PERSONS AND PROPERTY.
- 3.2 CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL SAFETY PRECAUTIONS AND REGULATIONS DURING THE WORK. THE ENGINEER WILL NOT ADVISE ON NON-ISSUE DIRECTIVE AS TO SAFETY PRECAUTIONS AND PROGRAMS.
- 3.3 THE STRUCTURAL DRAWINGS HEREIN REPRESENT THE FINISHED STRUCTURE DURING ERECTION OF THE STRUCTURE. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR TEMPORARY GUINING, SHORING, BRACING, FORMING, ETC. TO HOLD THE STRUCTURE IN PROPER ALIGNMENT AND TO WITHSTAND ALL LOADS TO WHICH THE STRUCTURE MAY BE SUBJECTED, INCLUDING LATERAL LOADS, TEMPERATURE DIFFERENTIALS, STOCKPILES OF MATERIAL AND EQUIPMENT. SUCH MEASURES SHALL BE LEFT IN PLACE AS LONG AS REQUIRED FOR SAFETY AND UNTIL ALL FRAMING AND CONNECTIONS ARE IN PLACE. THE INVESTIGATION, DESIGN, SAFETY, ADEQUACY AND INSPECTION OF SUCH TEMPORARY MEASURES ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- 3.4 DRAWINGS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION, WHERE CONDITIONS ARE NOT SPECIFICALLY SHOWN, SIMILAR DETAILS OF CONSTRUCTION SHALL BE USED, SUBJECT TO REVIEW BY THE ENGINEER.
- 3.5 ARCHITECTURAL DRAWINGS, MECHANICAL DRAWINGS, ELECTRICAL DRAWINGS, TELECOMMUNICATION DRAWINGS, FIRE PROTECTION DRAWINGS, EQUIPMENT DRAWINGS AND RELATED ITEMS ARE BY OTHERS.
- 3.6 ALL OMISSIONS AND CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE CONSTRUCTION DRAWINGS AND/OR SPECIFICATIONS AND/OR EXISTING CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
- 3.7 THE CONTRACTOR SHALL COORDINATE ALL DEPRESSIONS, DIMENSIONS, ELEVATIONS, SLEEVES, CHASES, HANGERS, OPENINGS, BLOCK OUTS, INSERTS, ANCHORS, EQUIPMENT SUPPORTS, AND DETAILS WITH THE ENTIRE CONSTRUCTION PACKAGE INCLUDING ARCHITECTURAL DRAWINGS, MECHANICAL DRAWINGS, ELECTRICAL DRAWINGS, TELECOMMUNICATION DRAWINGS, FIRE PROTECTION DRAWINGS AND EQUIPMENT DRAWINGS. FOR CONCRETE AND MASONRY CONSTRUCTION THE INSERTS, EMBEDDED PLATES, ETC. SHALL NOT INTERFERE WITH REINFORCEMENT LOCATIONS.
- 3.8 ALL MANUFACTURED STRUCTURAL SYSTEMS WHICH ARE COMPOSED OF COMPONENTS TO BE FIELD ERECTED SHALL BE SUPERVISED BY THE SUPPLIER DURING MANUFACTURING, DELIVERY, HANDLING, STORAGE AND ERECTION IN ACCORDANCE WITH THE SUPPLIER'S INSTRUCTIONS AND REQUIREMENTS.
- 4 **FOOTINGS AND SOIL DATA:**
- 4.1 PER GEOTECHNICAL INVESTIGATION REPORT MADE BY HIGH COUNTRY SOIL TESTING, INC., REPORT NO. 4231/906, DATED 02/03/23, THE STRUCTURE IS DESIGNED FOR THE FOLLOWING SOIL PARAMETERS:

DESCRIPTION	MINIMUM ALLOWABLE SOIL BEARING CAPACITY - SEE TABLE BELOW		
	ACTIVE	AT-RISK	PASSIVE
LATERAL SOIL PRESSURE	45 PCF	55 PCF	300 PCF
COEFFICIENT OF FRICTION	0.3		
- 4.2 FOOTINGS SHALL BEAR ON NATURAL UNDISTURBED SOIL OR ON COMPACTED, ENGINEERED FILL. ALL SUBGRADE SHALL BE PREPARED AND COMPACTED ACCORDING TO THE RECOMMENDATIONS PROVIDED IN THE GEOTECHNICAL REPORT.
- 4.3 ALL TOPSOIL FILL AND OTHER UNSUITABLE BEARING MATERIAL SHALL BE REMOVED. A GEOTECHNICAL ENGINEER SHALL INSPECT THE EXCAVATED AREA TO ENSURE ALL MATERIALS REQUIRING REMOVAL HAVE BEEN REMOVED AND TO VERIFY THE SOIL BEARING CAPACITY USED FOR DESIGN PRIOR TO CONCRETE PLACEMENT.
- 4.4 EMBEDEDMENT DEPTH FROM EXTERIOR GRADE TO BOTTOM OF FOOTING SHALL NOT BE LESS THAN 2'-0". BOTTOM OF FOOTING ELEVATION SHALL BE LOWERED AS REQUIRED TO MEET THIS MINIMUM.
- 4.5 BACKFILL SHALL BE PLACED AND COMPACTED AGAINST BOTH SIDES OF FOUNDATION WALLS SIMULTANEOUSLY. CONTRACTOR SHALL PROVIDE ADEQUATE BRACING TO SUPPORT AND STABILIZE WALL UNTIL THE SUPPORTING MEMBERS ARE INSTALLED AND HAVE REACHED SUFFICIENT STRENGTH.
- 4.6 ALL MAJOR EQUIPMENT SHALL MAINTAIN A SAFE CLEAR DISTANCE FROM BASEMENT AND RETAINING WALLS.
- 4.7 PRIOR TO COMMENCING ANY FOUNDATION WORK, COORDINATE WITH ALL EXISTING UTILITIES. FOUNDATIONS SHALL BE LOWERED WHERE REQUIRED TO AVOID UTILITIES.
- 4.8 MUD SLABS, FOOTINGS OR SLABS SHALL NOT BE PLACED ON NOR AGAINST SUBGRADE CONTAINING FREE WATER. FROST OR ICE. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT ANY FROST OR ICE FROM PENETRATING ANY FOOTING OR SLAB SUBGRADE BEFORE AND AFTER PLACING CONCRETE UNTIL SUCH SUBGRADES ARE FULLY PROTECTED BY THE PERMANENT BUILDING STRUCTURE OR PROPER DEPTH OF BURY.
- 4.9 DO NOT UNDERMINE EXISTING FOUNDATIONS.
- 4.10 FOOTING ELEVATIONS SHOWN IN DRAWINGS ARE ESTIMATED FROM TOPOGRAPHICAL SURVEY DRAWINGS NOTED ON SHEET S1; FINAL ELEVATION MAY BE LOWERED AS DETERMINED BY TESTING AGENT DURING CONSTRUCTION.
- 5 **REINFORCED CONCRETE:**
- 5.1 DESIGN CODE: BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI 318), LATEST ADOPTION.
- 5.2 CONCRETE MIXES SHALL BE DESIGNED PER ACI 301 USING THE FOLLOWING:
 - PORTLAND CEMENT CONFORMING TO ASTM C150 OR C595
 - AGGREGATE CONFORMING TO ASTM C33.
 - ADMIXTURES CONFORMING TO ASTM C494, C1017, AND C260. DO NOT USE CALCIUM CHLORIDE OR ADMIXTURES CONTAINING CALCIUM CHLORIDE.
 - CONCRETE SHALL BE READY-MIXED IN ACCORDANCE WITH ASTM C94.
- 5.3 MATERIAL STRENGTHS:

DESCRIPTION	COMPRESSIVE STRENGTH (F _c) AT 28 DAYS	MAX AGGREGATE SIZE	SUMP ¹ RATIO	MAX WATER TO CEMENT RATIOS (W/C) ²
FOUNDATION WALLS	4000 PSI	1 1/2"	4" ± 1"	0.57
FOOTINGS	4000 PSI	3/4"	4" ± 1"	0.45
ANY CONCRETE SUBJECT TO FREEZE-THAW CYCLES (5% ENTRAINED AIR) ³	4000 PSI	3/4"	4" ± 1"	0.45
- 5.4 ¹TOLERANCE ON AIR CONTENT AS DELIVERED SHALL BE ± 1.5%.
- 5.5 ²PRIOR TO ADDITION OF PLASTICIZER OR HIGH-RANGE WATER-REDUCER
- 5.6 ³THESE W/C RATIOS MAY BE LOWER THAN NECESSARY TO PROVIDE THE SPECIFIED STRENGTHS.
- 5.7 **REINFORCING STEEL:**
 - ALL BARS, STRIPS AND TIES ASTM A615, GR. 60
 - 5.8 PLACEMENT OF CONCRETE AND REINFORCEMENT SHALL BE IN ACCORDANCE WITH ACI AND CRSI STANDARDS.
 - 5.9 CLEAN REINFORCEMENT OF LOOSE RUST, MILL SCALE, DIRT, OIL, AND OTHER FOREIGN MATERIALS THAT REDUCE BOND TO CONCRETE.
 - 5.6 PROVIDE 3/4" CHAMFER AT ALL EXPOSED CORNERS.
 - 5.7 FURNISH THE FOLLOWING CONCRETE COVER ON REINFORCING BARS UNLESS SHOWN OTHERWISE ON DRAWINGS:
 - FOOTINGS 3" COVER ON BOTTOM AND SIDES
 - WALLS 2" COVER
 - 5.8 WELDING (INCLUDING TACKING) OF BARS SHALL NOT BE ALLOWED.
 - 5.9 MAINTAIN CONCRETE IN A CONTINUOUSLY DAMP AND WET CONDITION FOR NOT LESS THAN 7 DAYS AFTER PLACING. PROTECT FROM MOISTURE LOSS WITH SHEETING OR SPRAY-ON MEMBRANE MEETING ASTM C209 AND COMPATIBLE WITH FLOOR COVERINGS.
 - 5.10 FINISHING REQUIREMENTS ARE AS FOLLOWS (REFER TO ACI 301):
 - SMOOTH RUBBER FINISH ON EXPOSED SURFACES.
 - BROOM FINISH ON WALKS, STAIRS AND EXTERIOR CONCRETE PEDESTAL PAVING.
 - 5.11 DO NOT FIELD BEND BARS NATURALLY EMBEDDED IN HARDENED CONCRETE UNLESS SPECIFICALLY INDICATED OR ACCEPTED BY THE ENGINEER.
 - 5.12 PROVIDE CORNER BARS EQUAL IN SIZE AND SPACING TO WALL HORIZONTAL REINFORCEMENT UNLESS OTHERWISE DETAILLED.
 - 5.13 COLD WEATHER CONCRETING SHALL FOLLOW PROCEDURES IN ACI 308.
 - 5.14 HOT WEATHER CONCRETING SHALL FOLLOW PROCEDURES IN ACI 305.
 - 5.15 PROVIDE CLASS B LAP SPLICES IN ACCORDANCE WITH ACI 318.
 - 5.16 BARS SUPPORTING AND HOLDING BARS SHALL BE PROVIDED FOR ALL REINFORCING STEEL FOR UNCOATED STEEL. BAR SUPPORTS FOR COATED STEEL SHALL BE PLASTIC COATED OR EPXY COATED.
 - 5.17 FORMWORK SHALL REMAIN IN PLACE UNTIL CONCRETE HAS ATTAINED A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY BRACING.
 - 5.18 VERTICAL WALL CONSTRUCTION JOINTS SHALL BE FORMED WITH VERTICAL BULKHEADS AND KEYS. WALL REINFORCEMENT SHALL BE CONTINUOUS THROUGH THE JOINT OR SHALL BE DOVEILED WITH AN EQUIVALENT AREA OF REINFORCEMENT UNLESS NOTED OTHERWISE.
 - 5.19 PROVIDE CONTINUOUS WATERSTOP (BUB TYPE) IN CONSTRUCTION JOINTS AT BASEMENT AND PIT WALLS, IN JOINTS BETWEEN MONOLITHIC POURS BELOW GRADE, AND IN ALL OTHER WALLS ADJACENT TO BELOW GRADE SLABS.

6 POST-INSTALLED FASTENING:

6.1 POST-INSTALLED SYSTEMS ARE BASED ON THE FOLLOWING (UNLESS NOTED OTHERWISE):

DESCRIPTION	ANCHOR/ADHESIVE ¹	APPLICATIONS
ADHESIVES	HELI-TITE HY-200	CONCRETE (HILL HIKER EQUIPMENT) CONCRETE (ALL OTHER)

¹SUBSTITUTIONS WILL BE CONSIDERED PROVIDED THE CONTRACTOR SUPPLIES DOCUMENTATION OF EQUAL OR GREATER CAPACITY BASED ON ANCHOR SIZE, EMBEDMENT DEPTH, SPACING AND EDGE DISTANCE.

- 6.1.1 POST-INSTALLED ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS.
- 6.2 INSTALLATION REQUIREMENTS FOR ADHESIVE ANCHORS:
 - 6.2.1 HORIZONTAL OR UPWARDLY INCLINED ORIENTATIONS
 - 6.2.1.1 INSTALLATION SHALL BE PERFORMED BY PERSONNEL CERTIFIED IN ACCORDANCE WITH ACI/CRSI ADHESIVE ANCHOR INSTALLER CERTIFICATION PROGRAM.
 - 6.2.1.2 INSTALLATION SHALL BE CONTINUOUSLY INSPECTED DURING INSTALLATION BY AN INSPECTOR SPECIALLY APPROVED BY THE BUILDING OFFICIAL.
 - 6.2.2 ALL OTHER ORIENTATIONS
 - 6.2.2.1 INSTALLATION SHALL BE PERFORMED BY PERSONNEL TRAINED TO INSTALL ADHESIVE ANCHORS. TRAINING SHALL INCLUDE PRODUCT-SPECIFIC TRAINING OFFERED BY THE ADHESIVE MANUFACTURER AND SHALL BE INSPECTED IN ACCORDANCE WITH THE ICC REPORT.

7 STRUCTURAL STEEL:

- 7.1 DESIGN CODE: SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS (AISC 360), LATEST ADOPTION.
- 7.2 MATERIAL SPECIFICATIONS (UNLESS NOTED OTHERWISE):
 - STRUCTURAL STEEL, WIDE FLANGE ASTM A992
 - OTHER STRUCTURAL STEEL, ROLLED SHAPES, PLATES & BARS ASTM A36
 - HOLLOW STRUCTURAL SECTIONS ASTM A500, GR B
 - CONNECTION BOLTS ASTM F1554, A325 TYPE 1
 - THREADED RODS ASTM A36
 - WELDS (E70XX ELECTRODES) AWS D1.1
 - NON-SHRINK GROUT (7,000 PSI) ASTM C1107, GR. A
- 7.3 ALL STRUCTURAL STEEL INCLUDING ANCHOR BOLTS, SHALL BE FABRICATED AND ERECTED ACCORDING TO THE SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS (AISC 360), LATEST ADOPTION AND THE CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES (AISC 303), LATEST ADOPTION. PROVISION 4.4 AND APPENDIX A OF THE AISC CODE OF STANDARD PRACTICE ARE SPECIFICALLY DELETED FROM THE PROJECT CONTRACT DOCUMENTS. THE FABRICATOR SHALL PROVIDE ITS SCHEDULE FOR THE SUBMITTAL OF SHOP AND ERECTION DRAWINGS A MINIMUM OF 14 DAYS PRIOR TO FIRST SUBMITTAL.
- 7.4 ALL COLLARS, ANCHOR BOLTS, BASE PLATES, ETC. HAVE BEEN DESIGNED FOR THE FINAL COMPLETED CONDITION AND HAVE NOT BEEN INVESTIGATED FOR POTENTIAL LOADINGS ENCOUNTERED DURING STEEL ERECTION AND CONSTRUCTION. CONFORMANCE TO OR DEVIATION FROM ALLOWABLE CAPACITIES DURING ERECTION IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR (SEE GENERAL NOTES).
- 7.5 PROVIDE STAINLESS STEEL AS REQUIRED TO DEVELOP REACTIONS AT HSS, PIPE AND WIDE-FLANGE CONNECTIONS.
- 7.6 BEAMS SHALL BE FABRICATED AND ERECTED FOR PLACEMENT WITH THE NATURAL CAMBER UP.
- 7.7 ALL WELDING SHALL BE PERFORMED IN ACCORDANCE WITH AWS D1.1, UNLESS OTHERWISE NOTED. PROVIDE CONTINUOUS FILLET WELDS PER AISC REQUIREMENTS MEETING MINIMUM THICKNESSES ALLOWED PER THROUGHT OF MATERIAL WELDED. ALL FILLER MATERIAL SHALL HAVE A MINIMUM WELD STRENGTH OF 58 KSI.
- 7.8 HOLES IN STEEL SHALL BE DRILLED OR PUNCHED. ALL SLOTTED HOLES SHALL BE PROVIDED WITH SMOOTH EDGES. BURNING OF HOLES AND TORCH CUTTING AT THE SITE ARE NOT PERMITTED.
- 7.9 STRUCTURAL STEEL SHALL BE GALVANIZED UNLESS NOTED OTHERWISE. DAMAGE DURING TRANSPORTING, ERECTING AND FIELD WELDING PROCESSES SHALL BE REPAIRED TO MATCH THE SHOP APPLIED COATING.
- 7.10 STRUCTURAL BOLTS SHALL BE GALVANIZED.

8 STAINLESS STEEL:

- 8.1 DESIGN CODE: STANDARD SPECIFICATION FOR THE DESIGN OF COLD-FORMED STAINLESS STEEL STRUCTURAL MEMBERS (ASCE-8), LATEST ADOPTION, AND SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS (AISC) LATEST ADOPTION, AND SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR STRUCTURAL LATEST ADOPTION.
- 8.2 MATERIAL SPECIFICATIONS (UNLESS NOTED OTHERWISE PER HILL HIKER, INC. EQUIPMENT SPECIFICATIONS):
 - STAINLESS STEEL SHEETS AND STRIPS ASTM A496, LINE 5E1003 (F_y = 42,300 KSI)
 - STAINLESS STEEL HOLLOW SECTIONS ASTM A554, MT-316
 - STAINLESS STEEL STRUCTURAL BOLTS ASTM F959 GROUP 1
 - STAINLESS STEEL HEAVY HEX NUTS AND WASHERS ASTM F959 GROUP 1
 - WELDS (E316-XX ELECTRODES) AWS D1.8
- 8.3 ALL WELDING SHALL BE PERFORMED IN ACCORDANCE WITH THE PROVISIONS OF AWS D1.3 AND AWS D1.6 UNLESS NOTED OTHERWISE PER HILL HIKER, INC. EQUIPMENT SPECIFICATIONS. ALL SHOP AND FIELD WELDS SHALL BE PERFORMED BY WELDERS CERTIFIED FOR THE PARTICULAR STAINLESS STEEL WELDS TO BE PERFORMED. WELDS SHALL BE PERFORMED USING THE SHIELDED ARC PROCESS UNLESS OTHERWISE NOTED.
- 8.4 ALL FABRICATION SHALL BE STRAIGHT AND TRUE. CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT FABRICATION PRACTICES WILL NOT CAUSE PERMANENT OUT-OF-TOLERANCE DISTORTION OF THE WORK.

9 WOOD:

- 9.1 DESIGN CODE: NATIONAL DESIGN SPECIFICATION (NDS) FOR WOOD CONSTRUCTION (AF&P), LATEST ADOPTION.
- 9.2 MATERIALS (FOLLOWING INDICATE MINIMUM GRADES UNO ON DRAWINGS):

DESCRIPTION	SPECIES & GRADE	DESIGN VALUES (PSI)						COMMENTS ¹	
		F _b	F _v	F _c	F _d	F _t	E (x10 ⁶)		
EXTERIOR LANDING	2" x 4" WIDE SOUTHERN PINE	NO. 2	1500	175	565	1650	825	1.6	KICKERS, POSTS AND BALUSTERS
FRAMING	10" WIDE SOUTHERN PINE	NO. 2	1050	175	565	1500	575	1.6	JOISTS
	12" WIDE SOUTHERN PINE	NO. 2	975	175	565	1450	550	1.6	JOISTS
	Timbers (5" x 6" and larger)	NO. 2	850	165	375	525	500	1.2	COLUMNS
EXTERIOR LANDING DECK	TREX DECKING	-	500	360	540	540	-	0.2	DECKING COLOR PER OWNER

- 9.2.1 BUILT UP STUDS, HEADERS, BEAMS, COLUMNS, AND OTHER MEMBERS TO BE CONNECTED PER IBC FASTENING SCHEDULE (UNO ON DRAWINGS).
- 9.3 ALL NAILS TO BE FULLY DRIVEN WITH HEAD FLUSH TO SURFACE. NEITHER UNDER-DRIVE NOR OVER-DRIVE NAILS UNO.
- 9.4 ALL LUMBER CONNECTORS TO BE SUPPLIED BY USP OR SIMPSON STRONG-TIE. WHEN USING STEEL LUMBER CONNECTORS FILL ALL NAIL HOLES TO ACHIEVE PUBLISHED VALUE, WHERE MORE STRINGENT, THESE DRAWINGS SUPERSEDE DIRECTIONS IN PRODUCT CATALOG BUT REFER TO PRODUCT CATALOG FOR TYPICAL INSTALLATION INSTRUCTIONS.

10 SUBMITTALS:

- 10.1 GENERAL SUBMITTAL REQUIREMENTS
- 10.1.1 CONTRACTOR SHALL REVIEW, STAMP, SIGN AND DATE ALL SUBMITTALS PRIOR TO FORWARDING TO ARCHITECT/ENGINEER. THE ENGINEER'S REVIEW IS FOR CONFORMANCE WITH THE DESIGN CONCEPT AND GENERAL COMPLIANCE WITH THE RELEVANT CONTRACT DOCUMENTS. THE ENGINEER'S REVIEW DOES NOT RELIEVE THE CONTRACTOR OF THE SOLE RESPONSIBILITY TO REVIEW, CHECK AND COORDINATE THE SUBMITTALS. THE CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS IN THE SUBMITTALS.
- 10.1.2 SHOP DRAWINGS SHALL BE IN THE FORM OF BLACK-LINE PRINTS OR PORTABLE DOCUMENT FORMAT (PDF) FOR REVIEW. DRAWINGS LISTED BELOW AS "CERTIFIED" SHALL BEAR THE SIGNED AND DATED SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED. IN NO CASE SHALL REPRODUCTIONS OF THE CONTRACT DRAWINGS BE USED AS SHOP DRAWINGS. DRAWINGS SHALL SHOW ERECTION PLANS, DIMENSIONS, BRACING AND BRIDGING REQUIREMENTS, DETAILS, SUPPORTED MECHANICAL EQUIPMENT AND PIPING. SUBMITTALS ARE REQUIRED:
 - 10.2 CONCRETE
 - 10.2.1 CONCRETE MIX DESIGN(S) SHALL BE SUBMITTED TO ENGINEER FOR REVIEW. A SIGNED CERTIFICATION STATING COMPLIANCE WITH ACI 318, CHAPTER 5 SHALL BE SUBMITTED WITH EACH CONCRETE MIX DESIGN.
 - 10.2.2 REINFORCING STEEL SHOP DRAWINGS.
 - 10.3 STRUCTURAL STEEL
 - 10.3.1 SHOP DRAWINGS

11 SPECIAL INSPECTIONS:

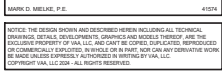
- 11.1 SPECIAL INSPECTION IS REQUIRED IN ACCORDANCE WITH THE LOCAL BUILDING CODE FOR THE FOLLOWING PORTIONS OF CONSTRUCTION:
 - 11.2 CONCRETE
 - 11.2.1 REINFORCING STEEL AND PLACEMENT - PERIODIC INSPECTION.
 - 11.2.2 ANCHORS CAST IN CONCRETE - PERIODIC INSPECTION.
 - 11.2.3 VERIFY USE OF REQUIRED DESIGN MIX - PERIODIC INSPECTION.
 - 11.2.4 DURING TAKING OF TEST SPECIMENS, PERFORM SUMP & AIR CONTENT TESTS, AND DETERMINE CONCRETE TEMPERATURE - CONTINUOUS INSPECTION.
 - 11.2.5 MAINTENANCE OF REQUIRED DESIGN MIX - PERIODIC INSPECTION.
 - 11.2.6 VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS - PERIODIC INSPECTION.
 - 11.2.7 VERIFY FORMWORK SHORING, LOCATION, AND DIMENSIONS - PERIODIC INSPECTION.
 - 11.3 SEISMIC FORCE-RESISTING SYSTEMS.
 - 11.3.1 STEEL:
 - 11.3.1.1 STRUCTURAL WELDING:
 - 1. FILLET WELDS 5/16" OR LESS - OBSERVE & PERFORM INSPECTIONS IN ACCORDANCE WITH AISC 341 CHAPTER J.
 - 2. PARTIAL PENETRATION WELDS - OBSERVE & PERFORM INSPECTIONS IN ACCORDANCE WITH AISC 341 CHAPTER J.
 - 11.3.1.2 HIGH-STRENGTH BOLTING:
 - 1. GROUP A BOLTS - OBSERVE & PERFORM INSPECTIONS IN ACCORDANCE WITH AISC 341 CHAPTER J.
 - 11.4 POST-INSTALLED ANCHORS IN HARDENED CONCRETE
 - 11.4.1 INSTALLATION OF ADHESIVE ANCHORS INTO HARDENED CONCRETE - CONTINUOUS OR PERIODIC INSPECTION IN ACCORDANCE WITH THE RESEARCH REPORT FOR THE ANCHORS ISSUED BY AN APPROVED SOURCE.
 - 11.4.2 INSTALLATION OF MECHANICAL ANCHORS INTO HARDENED CONCRETE - CONTINUOUS OR PERIODIC INSPECTION IN ACCORDANCE WITH THE RESEARCH REPORT FOR THE ANCHORS ISSUED BY AN APPROVED SOURCE.



PROJECT:
**INCLINE ELEVATOR
PLOWSHAY RESIDENCE
1532 GRAND AVE
GRAND LAKE, CO 80447**

NO.	DATE	ISSUE/REVISION	BY
A	10/09/23	ISSUED FOR REVIEW	EJE
B	02/05/24	ISSUED FOR PERMIT	EJE
C	05/14/24	ISSUED FOR PERMIT	EJE

DESCRIPTION	COMPRESSION	TENSION	WELDING
FOUNDATION WALLS	4000 PSI	4000 PSI	4000 PSI
FOOTINGS	4000 PSI	4000 PSI	4000 PSI
ANY CONCRETE SUBJECT TO FREEZE-THAW CYCLES (5% ENTRAINED AIR) ³	4000 PSI	4000 PSI	4000 PSI



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DATE:	DESIGNED:
10/06/23	CRS/GAFF

DRAWN:	CHECKED:	APPROVED:
EJE	APP/KFB	MCM

DRAWING TITLE:
STRUCTURAL NOTES

PROJECT NO:	DRAWING NO:
230576	S0

SCALE:
AS NOTED

NO.	DATE	ISSUE/REVISION	BY
A	07/28/23	ISSUED FOR PRELIM REVIEW	DLF
B	07/31/23	ISSUED FOR PRELIM REVIEW	DLF
C	08/02/23	ISSUED FOR PRELIM REVIEW	DLF
D	10/06/23	ISSUED FOR REVIEW	EJE
E	02/05/24	ISSUED FOR REVIEW	EJE
F	05/14/24	ISSUED FOR PERMIT	EJE



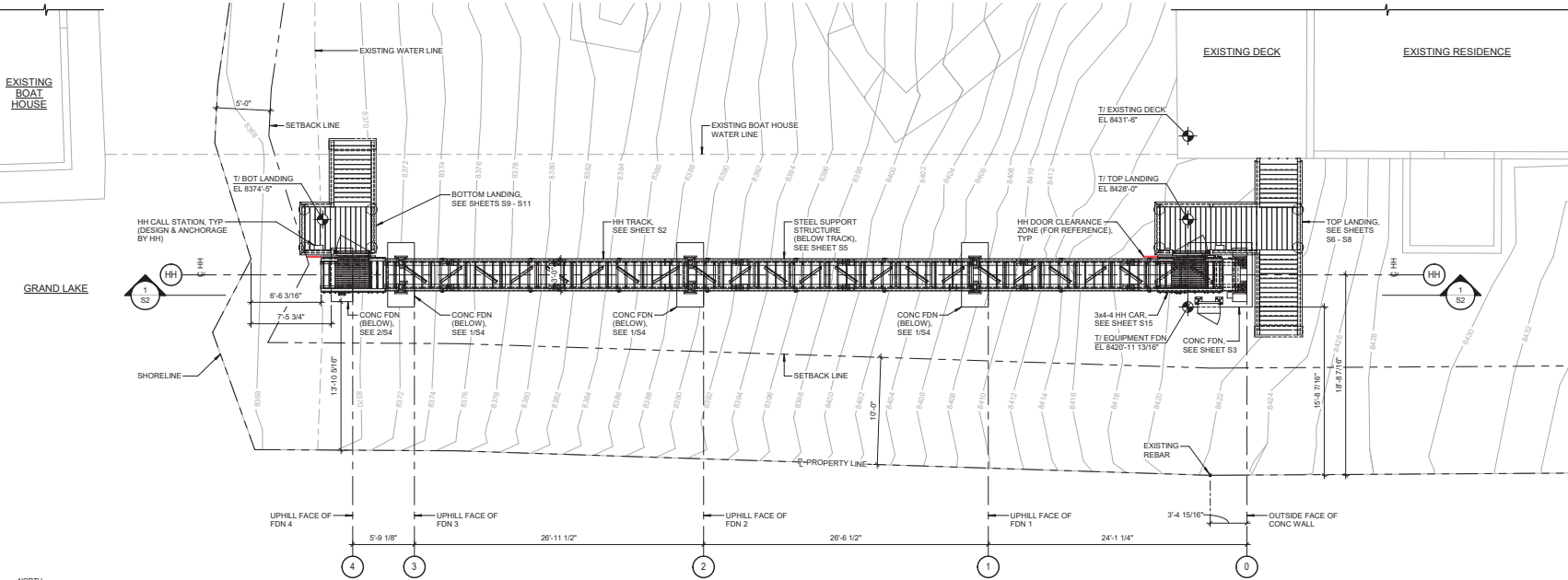
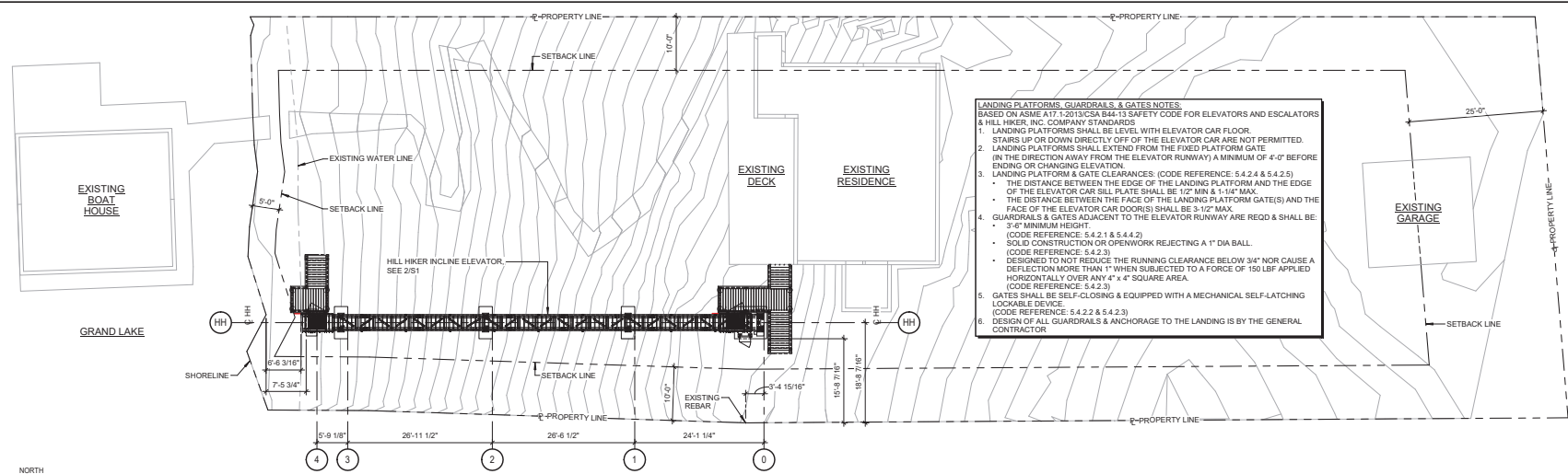
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DATE: 07/28/23	DESIGNED: CRG/APF
DRAWN: DLF	CHECKED: APP/KFB
	APPROVED: MCM

DRAWING TITLE:
SITE PLAN & OVERALL PLAN

PROJECT NO: 230576	DRAWING NO: S1
SCALE: AS NOTED	

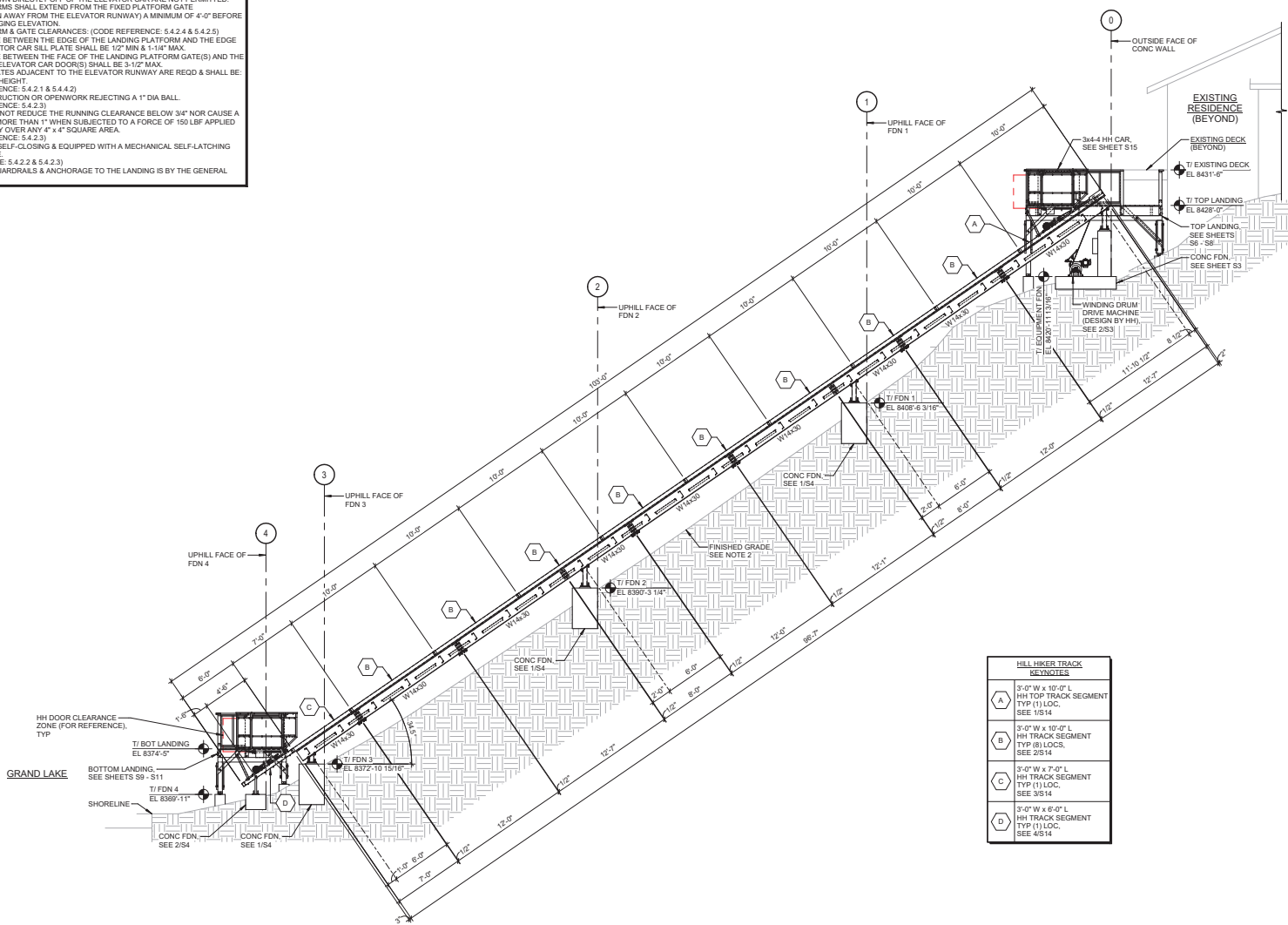
LANDING PLATFORMS, GUARDRAILS & GATES NOTES:
BASED ON ASME A17.1/2013CSA B44-13 SAFETY CODE FOR ELEVATORS AND ESCALATORS & HILL HIKER, INC. COMPANY STANDARDS
1. LANDING PLATFORMS SHALL BE LEVEL WITH ELEVATOR CAR FLOOR. STAIRS UP OR DOWN DIRECTLY OFF OF THE ELEVATOR CAR ARE NOT PERMITTED.
2. LANDING PLATFORMS SHALL EXTEND FROM THE FIXED PLATFORM GATE IN THE DIRECTION AWAY FROM THE ELEVATOR RUNWAY A MINIMUM OF 4'-0" BEFORE ENDING OR CHANGING ELEVATION.
3. LANDING PLATFORM & GATE CLEARANCES: (CODE REFERENCE: 5.4.2.4 & 5.4.2.5)
• THE DISTANCE BETWEEN THE EDGE OF THE LANDING PLATFORM AND THE EDGE OF THE ELEVATOR CAR SILL PLATE SHALL BE 1/2" MIN & 1-1/4" MAX.
• THE DISTANCE BETWEEN THE FACE OF THE LANDING PLATFORM GATE(S) AND THE FACE OF THE ELEVATOR CAR DOOR(S) SHALL BE 3-1/2" MAX.
4. GUARDRAILS & GATES ADJACENT TO THE ELEVATOR RUNWAY ARE RECD & SHALL BE:
• 3'-6" MINIMUM HEIGHT
(CODE REFERENCE: 5.4.2.1 & 5.4.4.2)
• SOLID CONSTRUCTION OR OPENWORK REJECTING A 1" DIA BALL.
(CODE REFERENCE: 5.4.2.3)
• DESIGNED TO NOT REDUCE THE RUNNING CLEARANCE BELOW 3/4" NOR CAUSE A DEFLECTION MORE THAN 1" WHEN SUBJECTED TO A FORCE OF 150 LBF APPLIED HORIZONTALLY OVER ANY 4" x 4" SQUARE AREA.
(CODE REFERENCE: 5.4.2.3)
5. GATES SHALL BE SELF-CLOSING & EQUIPPED WITH A MECHANICAL SELF-LATCHING LOCKABLE DEVICE.
(CODE REFERENCE: 5.4.2.2 & 5.4.2.3)
6. DESIGN OF ALL GUARDRAILS & ANCHORAGE TO THE LANDING IS BY THE GENERAL CONTRACTOR



NOTES:
1. THERE SHALL BE ONLY ONE CAR ON TRACK AT ANY TIME, OTHER CAR SHOWN FOR REFERENCE
2. IT SHALL BE THE GENERAL CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY & LOCATE GRIDS ON PROJECT SITE
3. ALL EXISTING STRUCTURES & PROPERTY LINES SHOWN THROUGHOUT THESE DRAWINGS ARE BASED ON A1457SUN SURVEY DRAWING PREPARED BY AZIMUTH SURVEY COMPANY, DATED 08-12-21, RECEIVED FROM GEOFFREY ELLIOT ON 06-16-23

LANDING PLATFORMS, GUARDRAILS, & GATES NOTES.
 BASED ON ASME A17.1-2013/CSA B44-13 SAFETY CODE FOR ELEVATORS AND ESCALATORS
 & HILL HIKER, INC. COMPANY STANDARDS

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- DESIGN OF ALL GUARDRAILS & ANCHORAGE TO THE LANDING IS BY THE GENERAL CONTRACTOR



HILL HIKER TRACK REYNOTES	
A	3'-0" W x 10'-0" L HH TOP TRACK SEGMENT TYP (1) LOC. SEE 1/514
B	3'-0" W x 10'-0" L HH TRACK SEGMENT TYP (8) LOC. SEE 2/514
C	3'-0" W x 7'-0" L HH TRACK SEGMENT TYP (1) LOC. SEE 3/514
D	3'-0" W x 6'-0" L HH TRACK SEGMENT TYP (1) LOC. SEE 4/514

1 OVERALL ELEVATION (LOOKING NORTHWEST)

- NOTES:
- THERE SHALL BE ONLY ONE CAR ON TRACK AT ANY TIME. OTHER CAR SHOWN FOR REFERENCE
 - GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR FINISHED GRADE REQUIREMENTS IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS
 - TOP LANDING STAIRS NOT SHOWN FOR CLARITY



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G	05/14/24	ISSUED FOR PERMIT	EJE



MARK C. MELNIK, P.E. 41574

DATE: 07/28/23	DESIGNED: CRG/APF
DRAWN: DLF/EJE	CHECKED: APF/KFB
	APPROVED: MCM

DRAWING TITLE:
OVERALL ELEVATION

PROJECT NO: 230576	DRAWING NO: S2
SCALE: AS NOTED	

