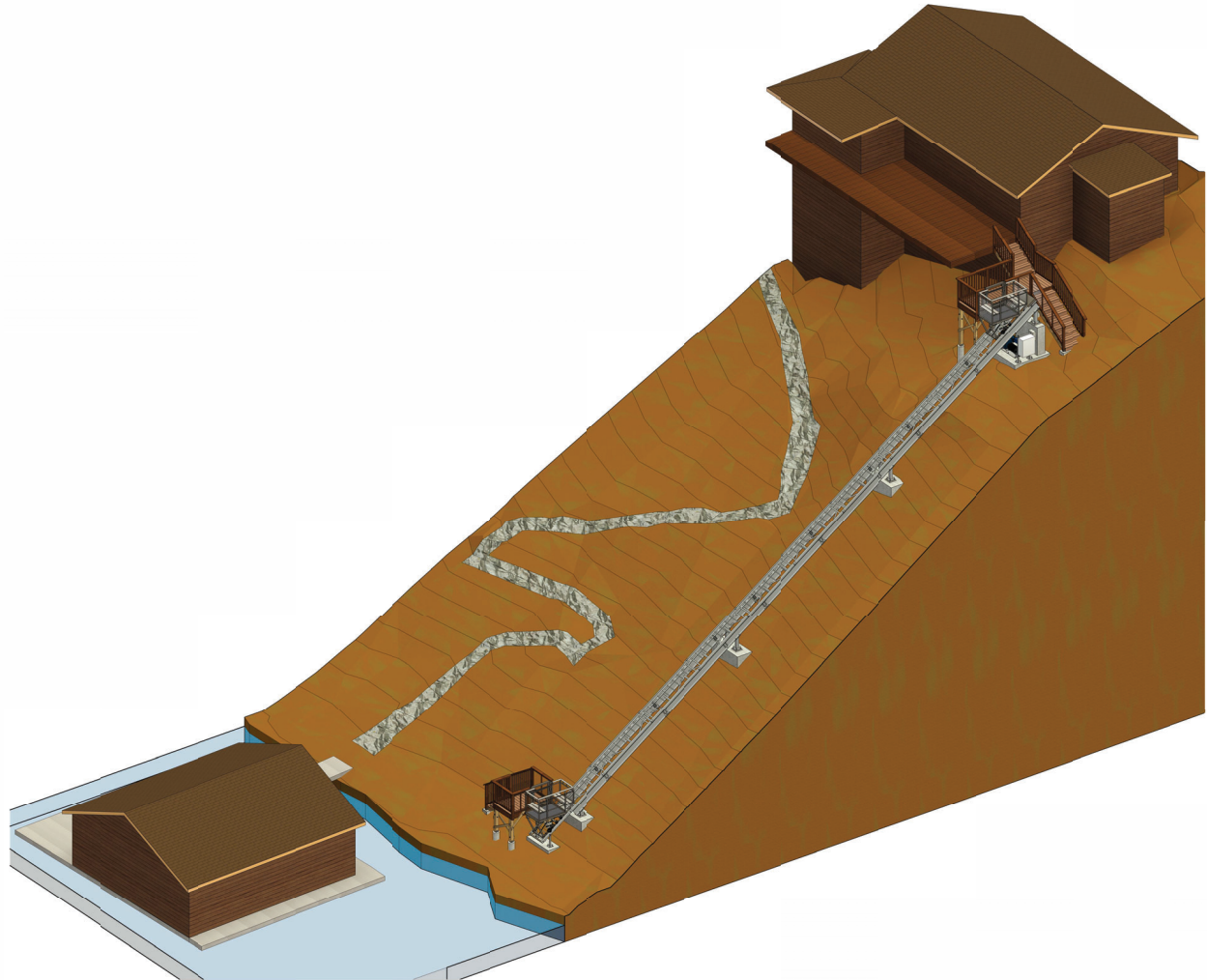


HILL HIKER INCLINE ELEVATOR PLOWSHAY RESIDENCE GRAND LAKE, CO



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
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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
BOT	BOTTOM	LH	LEFTHAND
BM	BENCH MARK	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
EQ	EACH WAY	RH	RIGHTHAND
EW	EACH WAY	RM	RIGHTHAND
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	UNO	UNLESS NOTED OTHERWISE
HORIZ	HORIZONTAL REBAR	VERTS	VERTICAL REBAR

DATE:	07/28/23	DESIGNED:	CRG/APP
DRAWING:	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

- 1.1 INTERNATIONAL BUILDING CODE (IBC)
1.2 2015 CONCRETE WALL WITH ASME7.1-2013 CSA B44-13 SECTION 5.4 PRIVATE RESIDENCE INCLINED ELEVATORS
2.1 DESIGN LOADS: DEAD, LIVE, WIND, SEISMIC DATA
3.1 GENERAL NOTES: CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION AND FOR THE SAFETY OF PERSONS AND PROPERTY.
4.1 FOOTINGS AND SOIL DATA: PER GEOTECHNICAL INVESTIGATION REPORT MADE BY HIGH COUNTRY SOIL TESTING, INC.
5.1 REINFORCED CONCRETE: DESIGN CODE: BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI 318), LATEST ADOPTION.

Table with 4 columns: DESCRIPTION, ACTIVE, AT-RISK, PASSIVE. Rows include LATERAL SOIL PRESSURES and COEFFICIENT OF FRICTION.

Table with 4 columns: DESCRIPTION, COMPRESSIVE STRENGTH (F'c), MAX AGGREGATE SIZE, SLUMP, MAX WATER TO CEMENT RATIOS (W/C). Rows include FOUNDATION WALLS and ANY CONCRETE SUBJECT TO FREEZE-THAW CYCLES.

6. POST-INSTALLED FASTENING: POST-INSTALLED SYSTEMS ARE BASED ON THE FOLLOWING (UNLESS NOTED OTHERWISE)

Table with 3 columns: DESCRIPTION, ANCHOR/ADHESIVE, APPLICATIONS. Rows include HELIX-TITE HY-200 and CONCRETE (HILL HIKER EQUIPMENT).

- 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: HORIZONTAL OR UPWARDLY INCLINED ORIENTATIONS
6.2.1 INSTALLATION SHALL BE PERFORMED BY PERSONNEL CERTIFIED IN ACCORDANCE WITH ACI 0818 ADHESIVE ANCHOR INSTALLER CERTIFICATION PROGRAM.

7. STRUCTURAL STEEL: DESIGN CODE: SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS (AISC 360), LATEST ADOPTION.

- 7.1 MATERIAL SPECIFICATIONS (UNLESS NOTED OTHERWISE): STRUCTURAL STEEL, WELD FLANGE, OTHER STRUCTURAL STEEL, ROLLED SHAPES, PLATES & BARS, HOLLOW STRUCTURAL SECTIONS, CONNECTION BOLTS, THREADED RODS, WELDS (E70XX ELECTRODES), NON-SHRINK GROUT (7,000 PSI), ASTM A592, ASTM A36, ASTM A500, GR B, ASTM F1554, A325 TYPE 1, ASTM A36, AWS D1, ASTM C1107, GR A.
7.2 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.

8. STAINLESS STEEL: 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 FABRICATION AND ERECTION.

- 8.1 MATERIAL SPECIFICATIONS (UNLESS NOTED OTHERWISE PER HILL HIKER, INC. EQUIPMENT SPECIFICATIONS): STAINLESS STEEL SHEETS AND STRIPS, STAINLESS STEEL HOLLOW SECTIONS, STAINLESS STEEL STRUCTURAL BOLTS, STAINLESS STEEL HEAVY HEX NUTS AND WASHERS, WELDS (E316-XX ELECTRODES), ALL WELDING SHALL BE PERFORMED IN ACCORDANCE WITH AWS D11, UNLESS OTHERWISE NOTED.
8.2 BEAMS SHALL BE FABRICATED AND ERECTED FOR PLACEMENT WITH THE NATURAL CAMBER UP. ALL WELDING SHALL BE PERFORMED IN ACCORDANCE WITH AWS D11, UNLESS OTHERWISE NOTED.
8.3 MEETING MINIMUM THICKNESSES ALLOWED PER THROUGHT OF MATERIAL WELDED. ALL FILLER MATERIAL SHALL HAVE A MINIMUM WELD STRENGTH OF 58 KSI.
8.4 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.

9. WOOD: DESIGN CODE: NATIONAL DESIGN SPECIFICATION (NDS) FOR WOOD CONSTRUCTION (AF&P), LATEST ADOPTION.

Table with 3 columns: DESCRIPTION, SPECIES & GRADE, DESIGN VALUES (PSI). Rows include EXTERIOR DIMENSIONAL LUMBER, FRAMING, TIMBERS (6"x6" and larger), and EXTERIOR LANDING DECK.

- 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: GENERAL SUBMITTAL REQUIREMENTS CONTRACTOR SHALL REVIEW, STAMP, SIGN AND DATE ALL SUBMITTALS PRIOR TO FORWARDING TO ARCHITECT/ENGINEER.

- 10.1 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 DOCUMENTS 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: 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 STEEL: SHOP DRAWINGS.

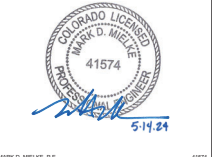
11. SPECIAL INSPECTIONS: SPECIAL INSPECTION IS REQUIRED IN ACCORDANCE WITH THE LOCAL BUILDING CODE FOR THE FOLLOWING PORTIONS OF CONSTRUCTION:

- 11.1 REINFORCING STEEL AND PLACEMENT - PERIODIC INSPECTION.
11.2 ANCHORS CAST IN CONCRETE - PERIODIC INSPECTION.
11.2.1 VERIFY USE OF REQUIRED DESIGN MIX - PERIODIC INSPECTION.
11.2.2 DURING TAKING OF TEST SPECIMENS, PERFORM SLUMP & AIR CONTENT TESTS, AND DETERMINE CONCRETE TEMPERATURE - CONTINUOUS INSPECTION.
11.2.3 MAINTENANCE OF REQUIRED DESIGN MIX - PERIODIC INSPECTION.
11.2.4 VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS - PERIODIC INSPECTION.
11.2.5 VERIFY FORMWORK SHORING, LOCATION, AND DIMENSIONS - PERIODIC INSPECTION.
11.3 SEISMIC FORCE-RESISTING SYSTEMS.
11.3.1 STEEL:
11.3.1.1 STRUCTURAL WELDING:
i. FILLET WELDS 5/16" OR LESS - OBSERVE & PERFORM INSPECTIONS IN ACCORDANCE WITH AISC 341 CHAPTER J.
ii. PARTIAL PENETRATING - OBSERVE & PERFORM INSPECTIONS IN ACCORDANCE WITH AISC 341 CHAPTER J.
11.3.1.2 HIGH-STRENGTH BOLTING:
i. 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 ANCHOR ISSUED BY AN APPROVED SOURCE.



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

Table with 4 columns: NO, DATE, ISSUE/REVISION, BY. Rows A, B, C.



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Table with 2 columns: DATE, DESIGNED: CRI/GAFF. Rows 10/06/23.

Table with 4 columns: DRAWING, CHECKED, APPROVED, MOM. Rows EJE, APP/FKB, MOM.

DRAWING TITLE: STRUCTURAL NOTES

Table with 2 columns: PROJECT NO, DRAWING NO. Rows 230576, S0.

NO.	DATE	ISSUE/REVISION	BY
A	07/28/23	ISSUED FOR PRELIM REVIEW	DLF
B	07/31/23	ISSUED FOR PRELIM REVIEW	DLF
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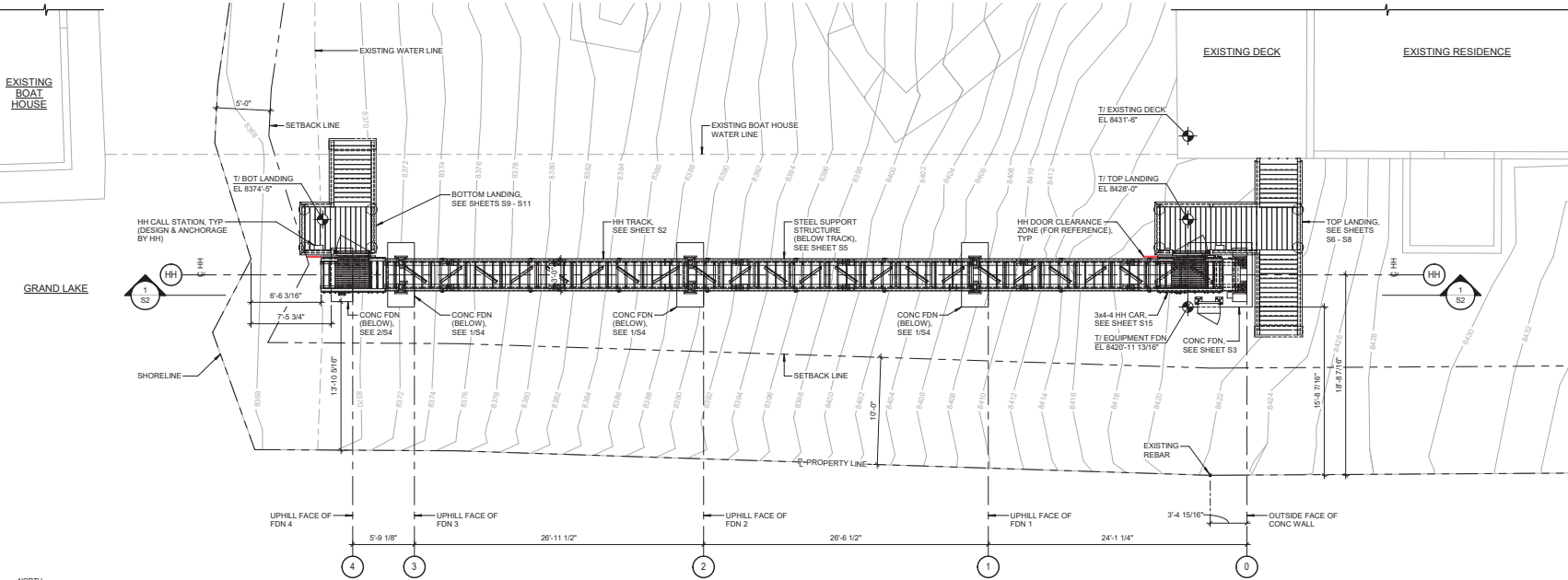
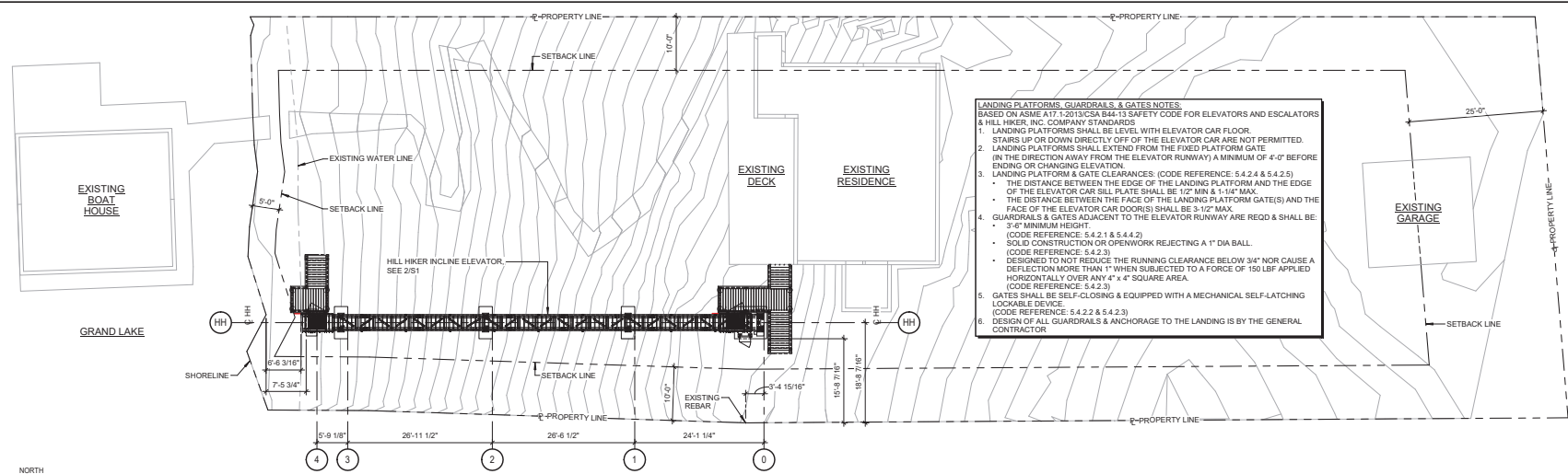
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DATE: 07/28/23	DESIGNED: CRG/APF
DRAWN: DLF	CHECKED: APP/KFB
	APPROVED: MCM

DRAWING TITLE:
SITE PLAN & OVERALL PLAN

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

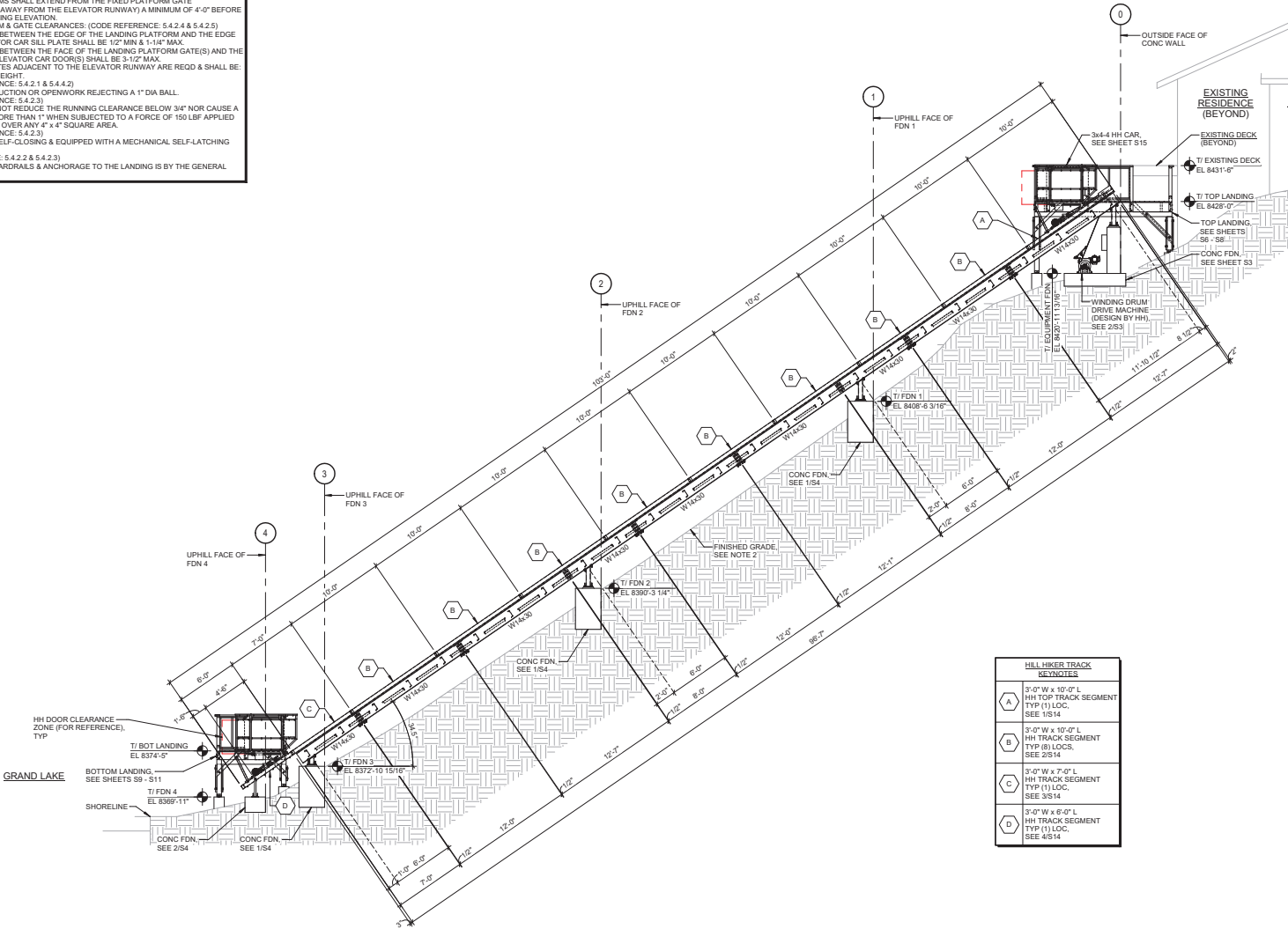
LANDING PLATFORMS, GUARDRAILS & GATES NOTES:
BASED ON ASME A17.1/2013CSA B44-13 SAFETY CODE FOR ELEVATORS AND ESCALATORS & HILL HIKER, INC. COMPANY STANDARDS
1. LANDING PLATFORMS SHALL BE LEVEL WITH ELEVATOR CAR FLOOR. STAIRS UP OR DOWN DIRECTLY OFF OF THE ELEVATOR CAR ARE NOT PERMITTED.
2. LANDING PLATFORMS 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

- LANDING PLATFORMS SHALL BE LEVEL WITH ELEVATOR CAR FLOOR. STAIRS UP OR DOWN DIRECTLY OFF OF THE ELEVATOR CAR ARE NOT PERMITTED.
- 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.
- 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 3/16" MAX.
- GUARDRAILS & GATES ADJACENT TO THE ELEVATOR RUNWAY ARE REQD & SHALL BE:
 - 3'-0" 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 1/8" WHEN SUBJECTED TO A FORCE OF 150 LBF APPLIED HORIZONTALLY OVER ANY 4' x 4' SQUARE AREA.
 - (CODE REFERENCE: 5.4.2.3)
- GATES SHALL BE SELF-CLOSING & EQUIPPED WITH A MECHANICAL SELF-LATCHING LOCKABLE DEVICE. (CODE REFERENCE: 5.4.2.2 & 5.4.2.3)
- 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 1/5/14
B	3'-0" W x 10'-0" L HH TRACK SEGMENT TYP (8) LOC. SEE 2/5/14
C	3'-0" W x 7'-0" L HH TRACK SEGMENT TYP (1) LOC. SEE 3/5/14
D	3'-0" W x 6'-0" L HH TRACK SEGMENT TYP (1) LOC. SEE 4/5/14

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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HILL HIKER
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 952.478.2422
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 info@hillhiker.com

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

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**COLORADO LICENSED
 MARK D. MELNIK
 41574
 5/19/24**

MARK D. MELNIK, P.E.

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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	

DRAWING NO. 230576-S2



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 Orono, MN 55056
 952.476.2422
 www.hillhiker.com
 info@hillhiker.com

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

NO.	DATE	ISSUE/REVISION	BY
A	10/06/23	ISSUED FOR REVIEW	EJE
B	02/05/24	ISSUED FOR REVIEW	EJE
C	05/14/24	ISSUED FOR PERMIT	EJE



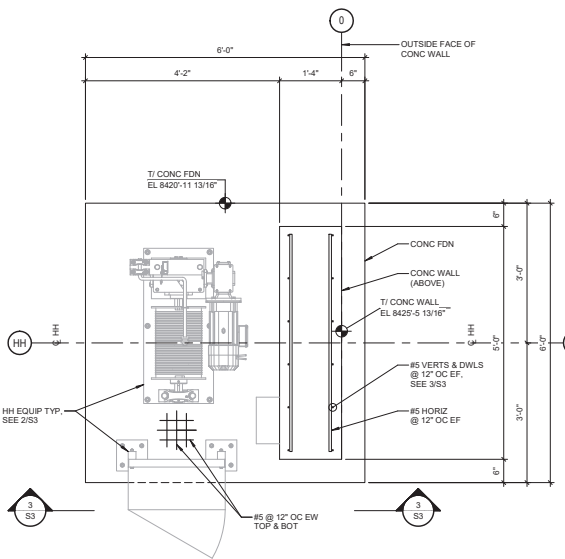
MARK D. MELNIK, P.E.
 41574

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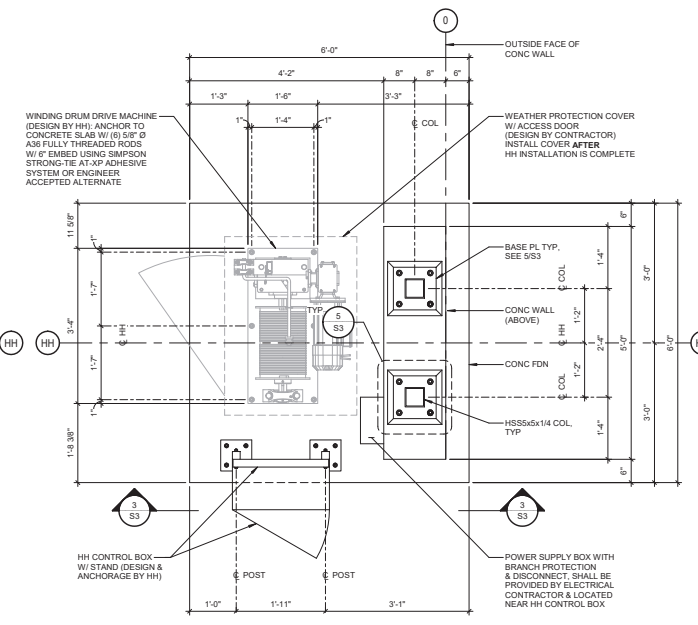
DATE: 10/06/23	DESIGNED: CRG/APF
DRAWN: EJE	CHECKED: APF/KFB
	APPROVED: MDM

DRAWING TITLE:
**EQUIPMENT PLANS,
 SECTIONS, & DETAILS**

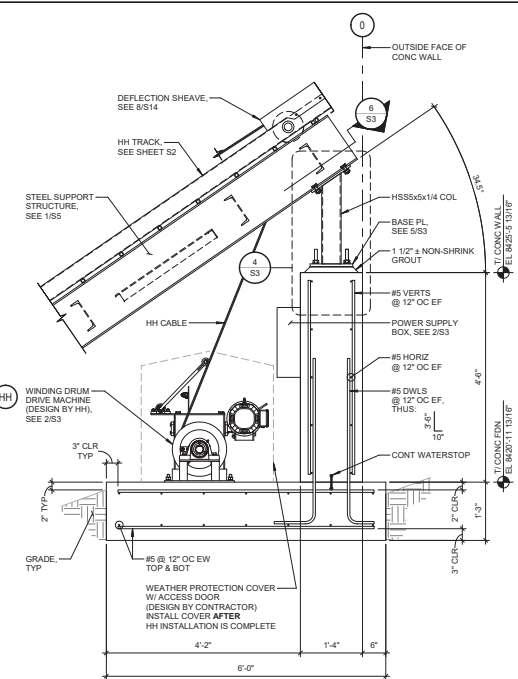
PROJECT NO: 230576	DRAWING NO. S3
SCALE: AS NOTED	



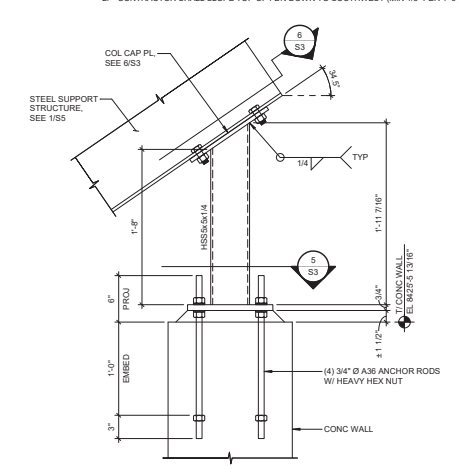
1 EQUIPMENT FDN REINF PLAN
 NORTH
 S3



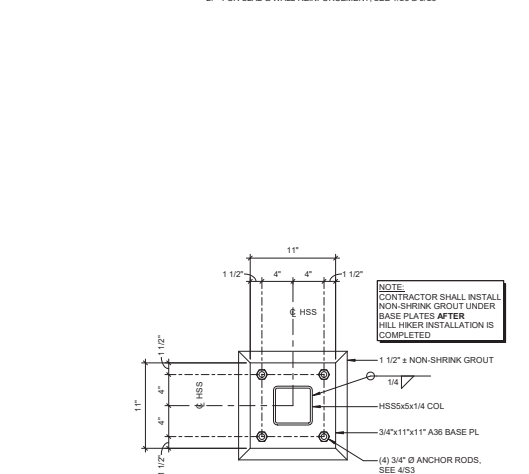
2 EQUIPMENT PLAN
 NORTH
 S3



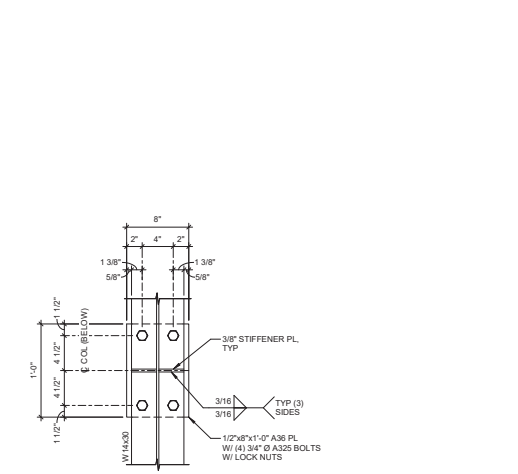
3 SECTION (LOOKING NORTHWEST)
 NORTH
 S3



4 SECTION
 NORTH
 S3

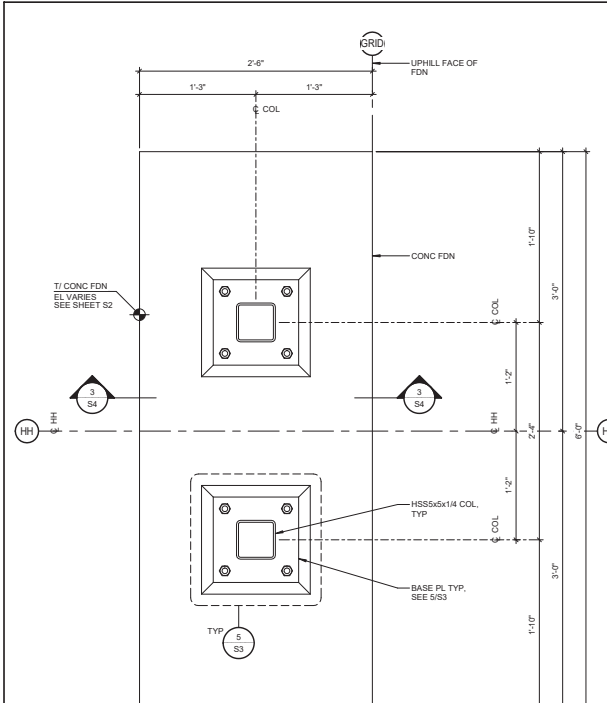


5 BASE PLATE DETAIL
 NORTH
 S3

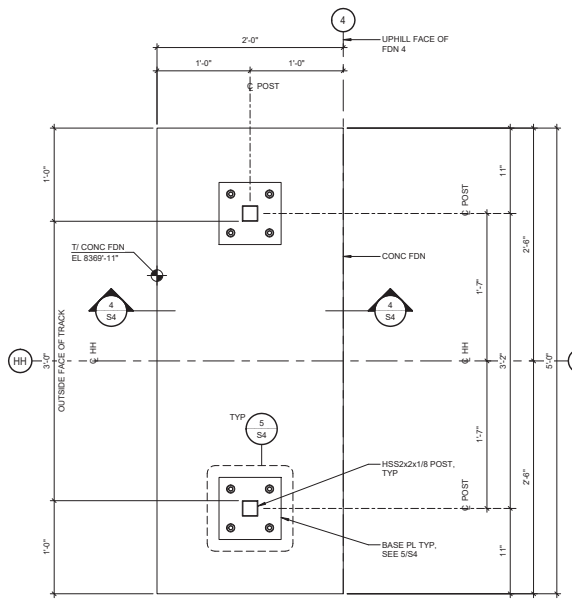


6 DETAIL (PLAN)
 NORTH
 S3

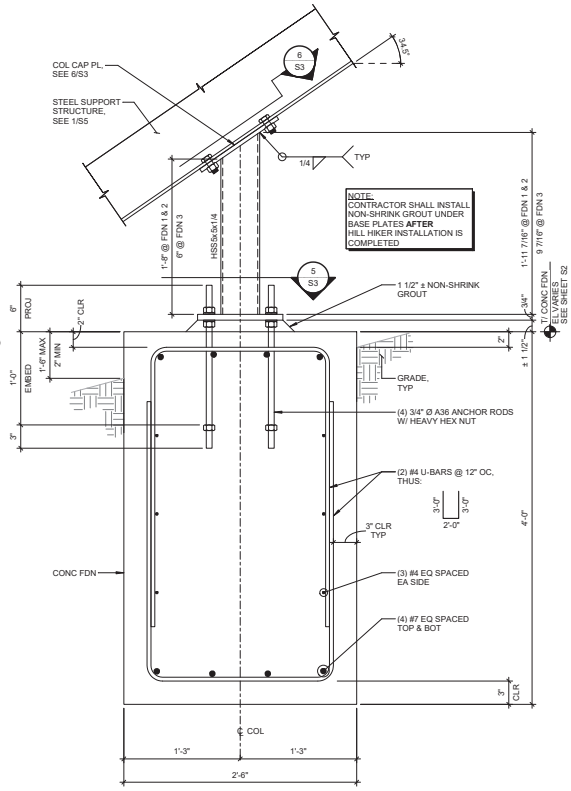
DRAWING BY: EJE, CHECKED BY: APF, DATE: 10/06/23



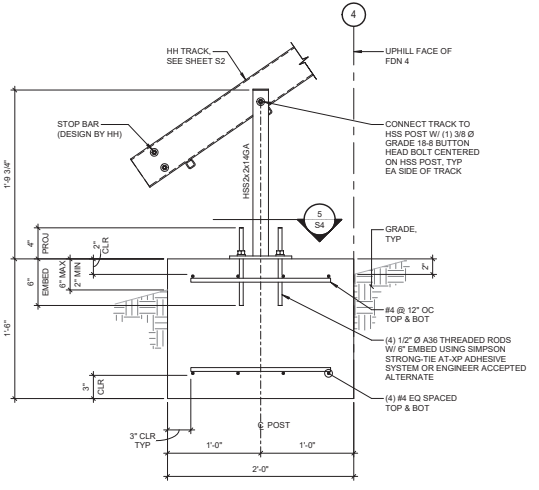
TYPICAL FDN PLAN
 1. 1/2" = 1'-0"
 1. HH TRACK & STEEL SUPPORT STRUCTURE NOT SHOWN FOR CLARITY
 2. (3) LOCS THUS



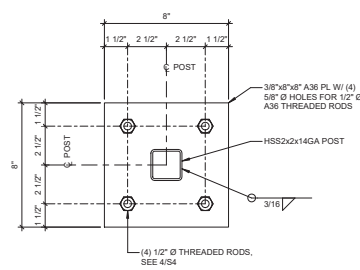
PLAN @ FDN 4
 2. 1/2" = 1'-0"
 1. HH TRACK & STEEL SUPPORT STRUCTURE NOT SHOWN FOR CLARITY
 2. (1) LOC THUS



TYPICAL FDN SECTION
 3. 1/2" = 1'-0"
 (3) LOCS THUS



SECTION @ FDN 4
 4. 1/2" = 1'-0"
 NOTE: (1) LOC THUS



BASE PLATE DETAIL
 5. 3" = 1'-0"



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

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B	02/05/24	ISSUED FOR REVIEW	EJE
C	05/14/24	ISSUED FOR PERMIT	EJE



DATE: 10/06/23	DESIGNED: CRG/APF
DRAWN: EJE	CHECKED: APP/KFB
APPROVED: MCM	

DRAWING TITLE:
SUPPORT PLANS & SECTIONS

PROJECT NO: 230576	DRAWING NO: S4
SCALE: AS NOTED	

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

NO.	DATE	ISSUE/REVISION	BY
A	10/06/23	ISSUED FOR REVIEW	EJE
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C	05/14/24	ISSUED FOR PERMIT	EJE



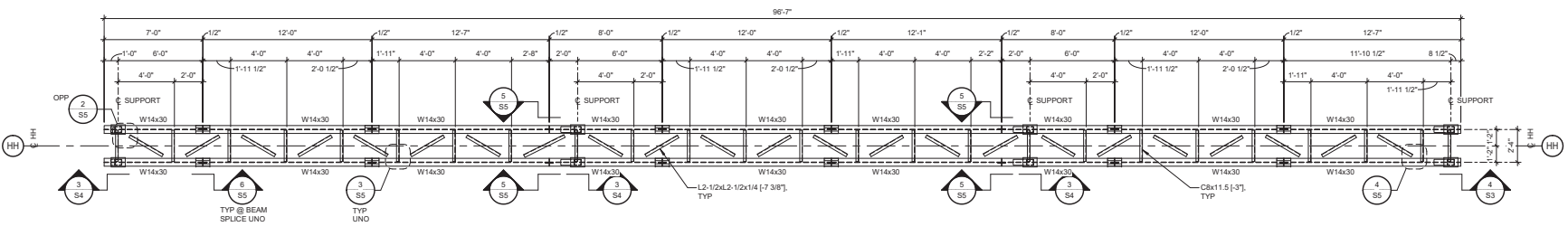
MARC D. MELKE, P.E.
41574
5/14/24

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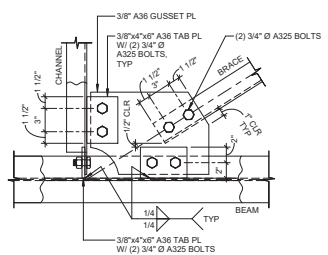
DATE:	DESIGNED:
10/06/23	CRG/APF
DRAWN:	CHECKED:
EJE	APF/KFB
APPROVED:	
MCM	

DRAWING TITLE:
STEEL FRAMING PLAN & CONNECTION DETAILS

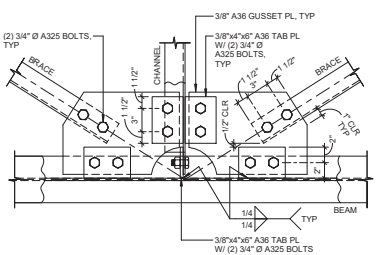
PROJECT NO.:	DRAWING NO.:
230576	S5
SCALE:	AS NOTED



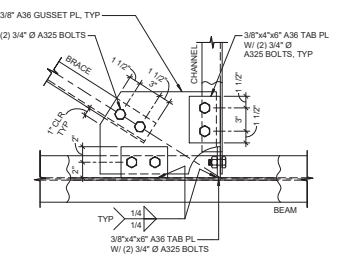
1
SS
STEEL FRAMING PLAN
1/4" = 1'-0"
NOTE:
HOLES ON TOP OF WF BEAMS TO BE FIELD DRILLED BY HILL HIKER



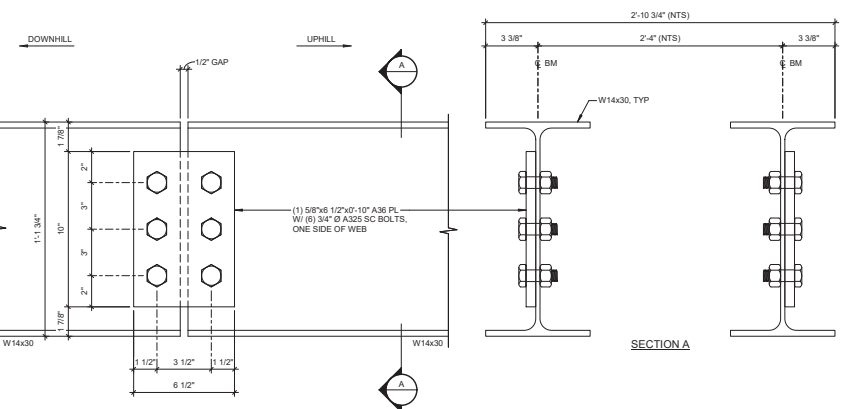
2
SS
BRACING CONN DETAIL
1 1/2" = 1'-0"



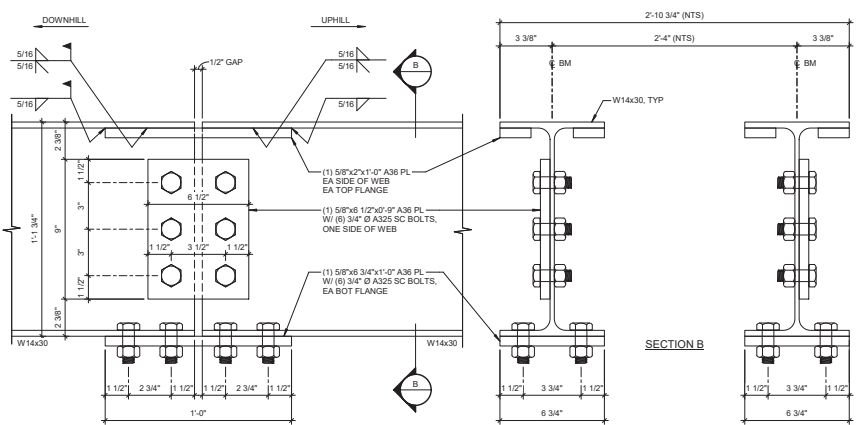
3
SS
BRACING CONNECTION DETAIL
1 1/2" = 1'-0"



4
SS
BRACING CONN DETAIL
1 1/2" = 1'-0"



5
SS
BEAM SPLICE CONNECTION DETAIL
3" = 1'-0"
NOTES:
1. "H" TRACK, CHANNELS, & HORIZ BRACING NOT SHOWN FOR CLARITY
2. (1) L0CS THUS



6
SS
BEAM SPLICE CONNECTION DETAIL
3" = 1'-0"
NOTES:
1. "H" TRACK, CHANNELS, & HORIZ BRACING NOT SHOWN FOR CLARITY
2. (1) L0CS THUS



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 3566 County Road 6, Grand Lake, CO 80447
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 info@hillhiker.com

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 PLOWSHAY RESIDENCE
 1532 GRAND AVE
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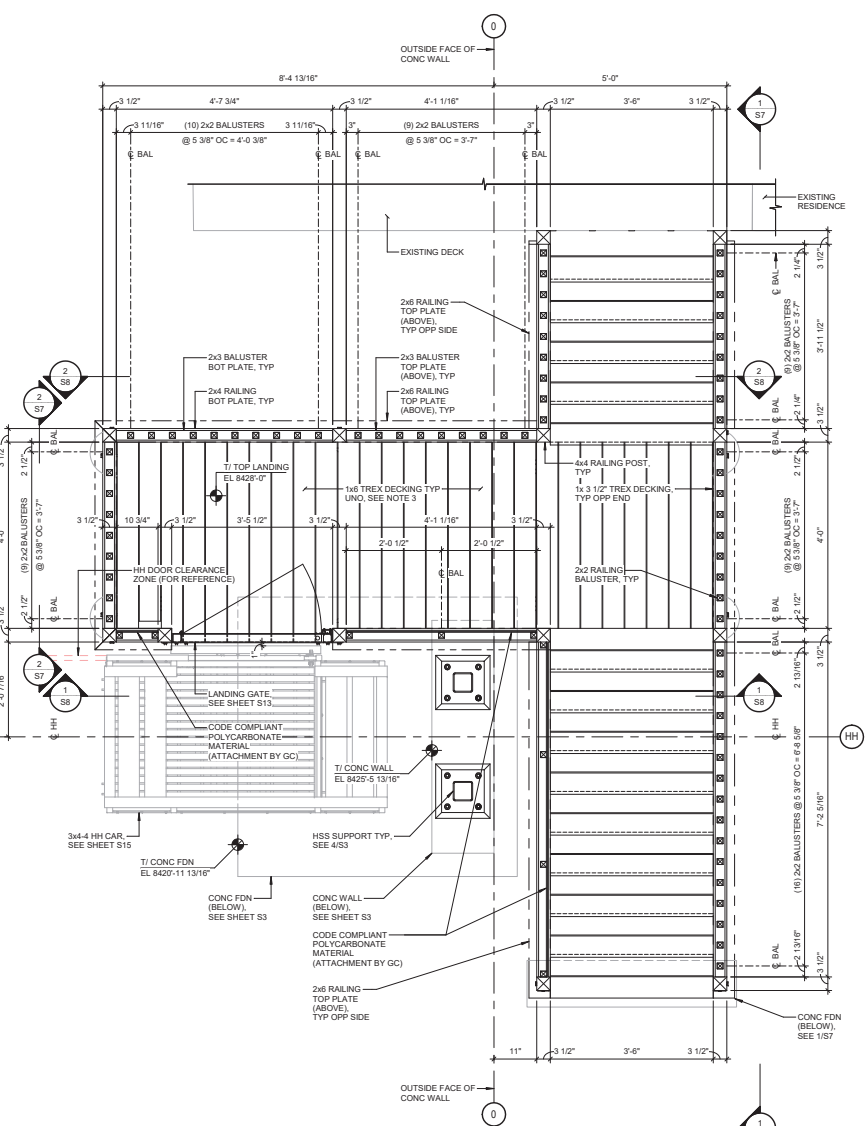
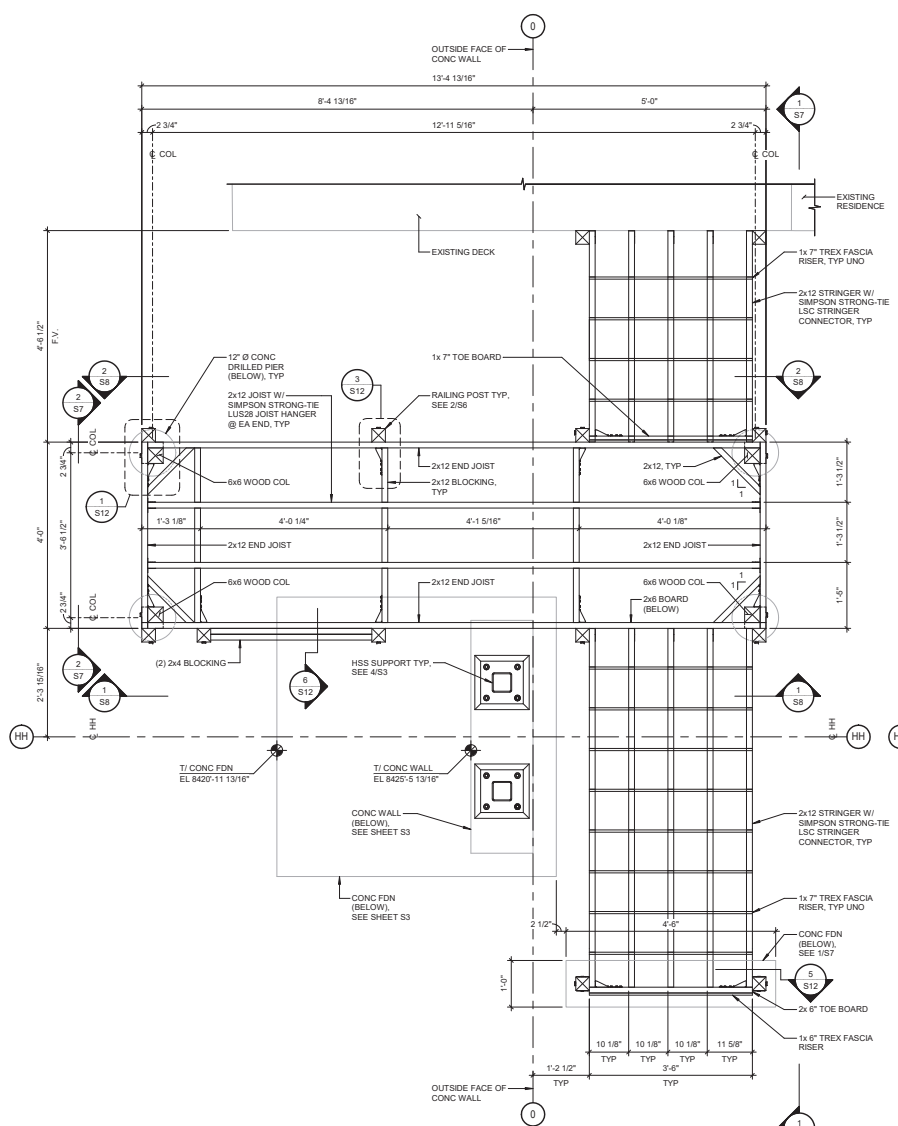


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DATE:	DESIGNED:	
02/05/24	CRG/APF	
DRAWN:	CHECKED:	APPROVED:
EJE	APP/KFB	MDM

DRAWING TITLE:
TOP LANDING PLANS

PROJECT NO: 230576
 DRAWING NO: **S6**
 SCALE: AS NOTED



TOP LANDING FRAMING PLAN

- NOTES:**
 1. HILL TRACK & HILL HIKER EQUIPMENT NOT SHOWN FOR CLARITY
 2. FOR FASTENING SCHEDULE, SEE 11S12

TOP LANDING DECKING & RAILING PLAN

- NOTES:**
 1. HILL TRACK & HILL HIKER EQUIPMENT NOT SHOWN FOR CLARITY
 2. FOR FASTENING SCHEDULE, SEE 11S12
 3. FOR TREX DECKING GAPPING RULES, SEE 10S12

DATE PLOTTED: 05/14/2024 10:11:27 AM
 PLOTTER: HP DesignJet T1100e



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info@hillhiker.com

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1532 GRAND AVE
GRAND LAKE, CO 80447

NO.	DATE	ISSUE/REVISION	BY
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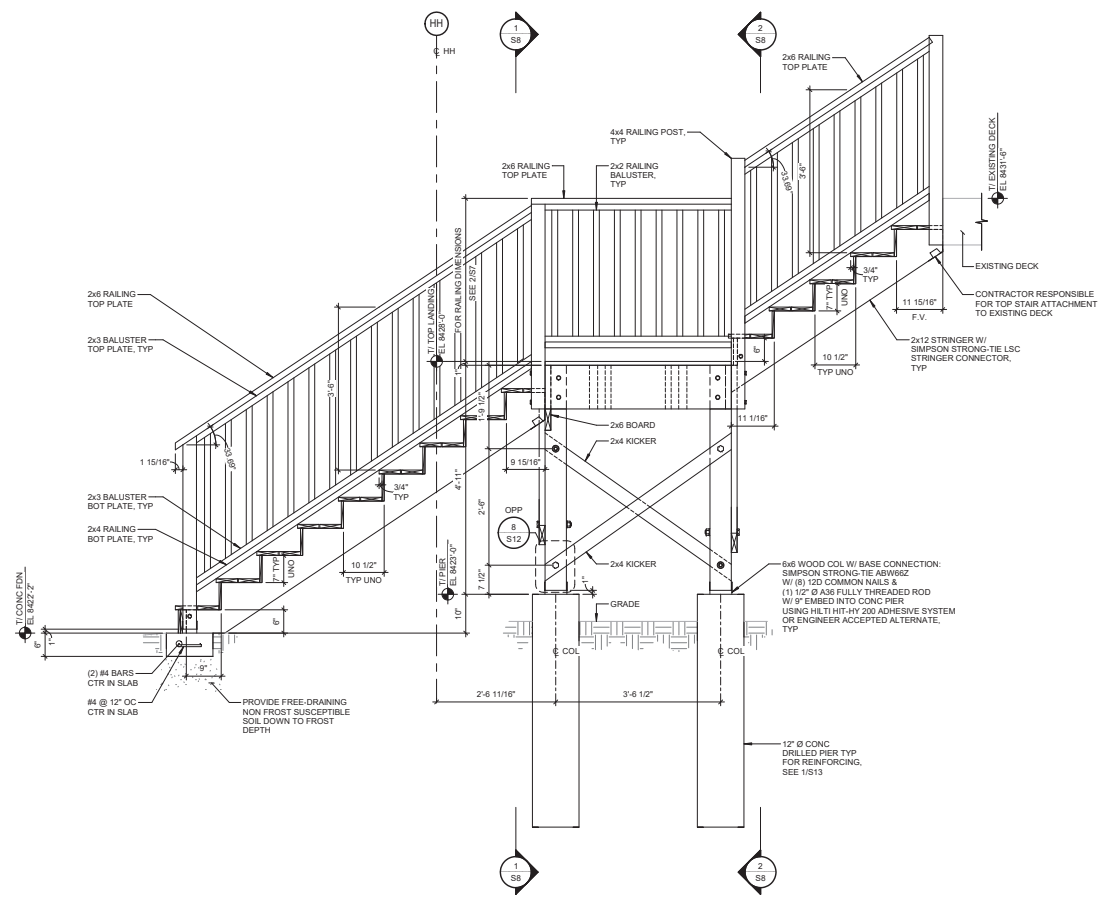
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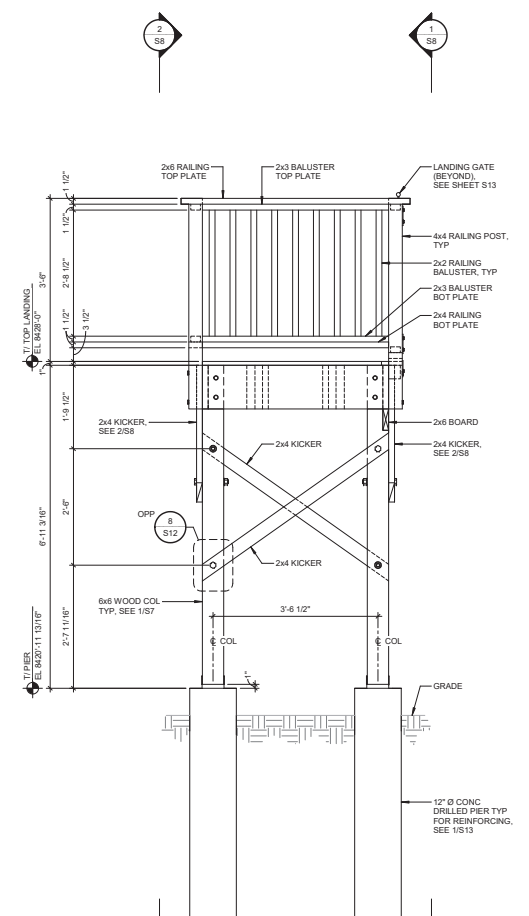
DATE:	DESIGNED:	
02/05/24	CRG/APP	
DRAWN:	CHECKED:	APPROVED:
EJE	APP/KFB	MDM

DRAWING TITLE:
TOP LANDING ELEVATIONS

PROJECT NO:	DRAWING NO:
230576	S7
SCALE:	AS NOTED



1
S7
ELEVATION (LOOKING SOUTHWEST)
3/4" = 1'-0"



2
S7
ELEVATION (LOOKING NORTHEAST)
3/4" = 1'-0"

DATE PLOTTED: 05/14/24 10:11:51 AM



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

NO.	DATE	ISSUE/REVISION	BY
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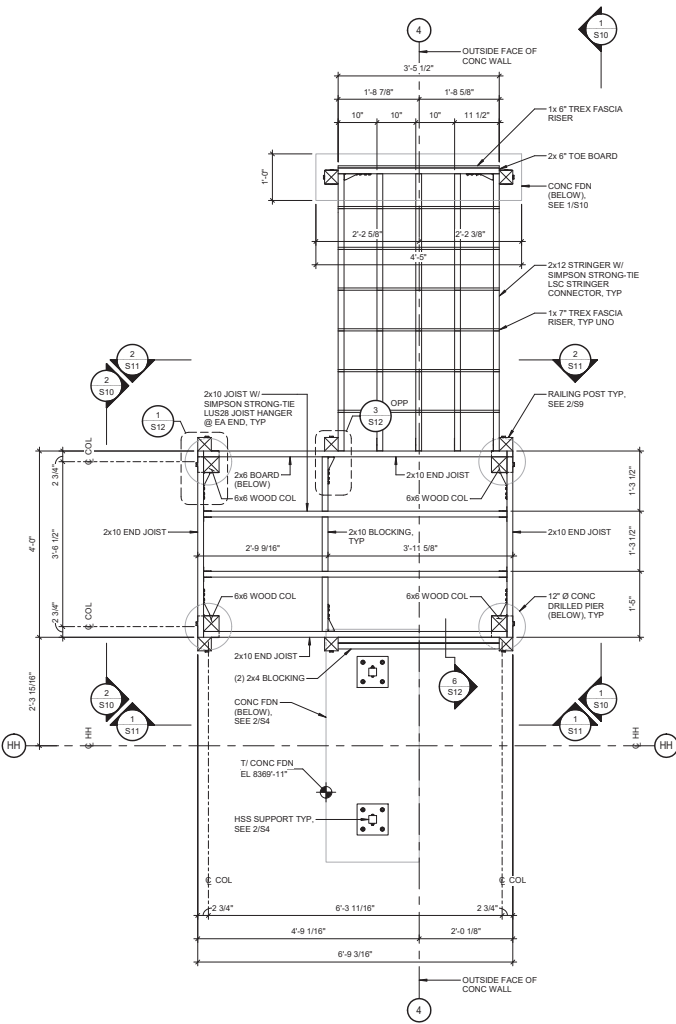


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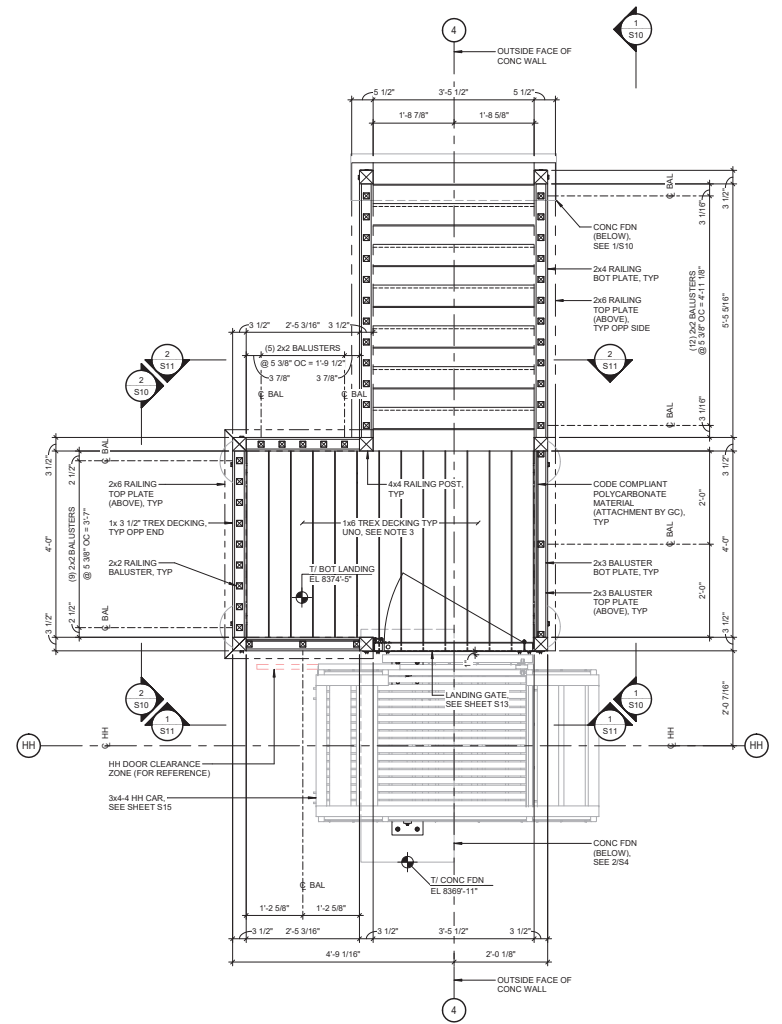
DATE: 02/05/24	DESIGNED: CRG/APP
DRAWN: DLF	CHECKED: APP/KFB
APPROVED: MCM	

DRAWING TITLE:
BOTTOM LANDING PLANS

PROJECT NO: 230576	DRAWING NO: S9
SCALE: AS NOTED	



BOTTOM LANDING FRAMING PLAN
 NORTH
 1 S9
 3/4" = 1'-0"
 NOTES:
 1. HH TRACK/CAR NOT SHOWN FOR CLARITY
 2. FOR FASTENING SCHEDULE, SEE 110/S12



BOTTOM LANDING DECKING & RAILING PLAN
 NORTH
 2 S9
 3/4" = 1'-0"
 NOTES:
 1. HH TRACK/CAR NOT SHOWN FOR CLARITY
 2. FOR FASTENING SCHEDULE, SEE 110/S12
 3. FOR TREX DECKING GAPPING RULES, SEE 10/S12



VAA, LLC
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PROJECT:
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PLOWSHAY RESIDENCE
1532 GRAND AVE
GRAND LAKE, CO 80447

NO.	DATE	ISSUE/REVISION	BY
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B	05/14/24	ISSUED FOR PERMIT	EJE

NO.	DATE	ISSUE/REVISION	BY

MARI O. MELKE, P.E.

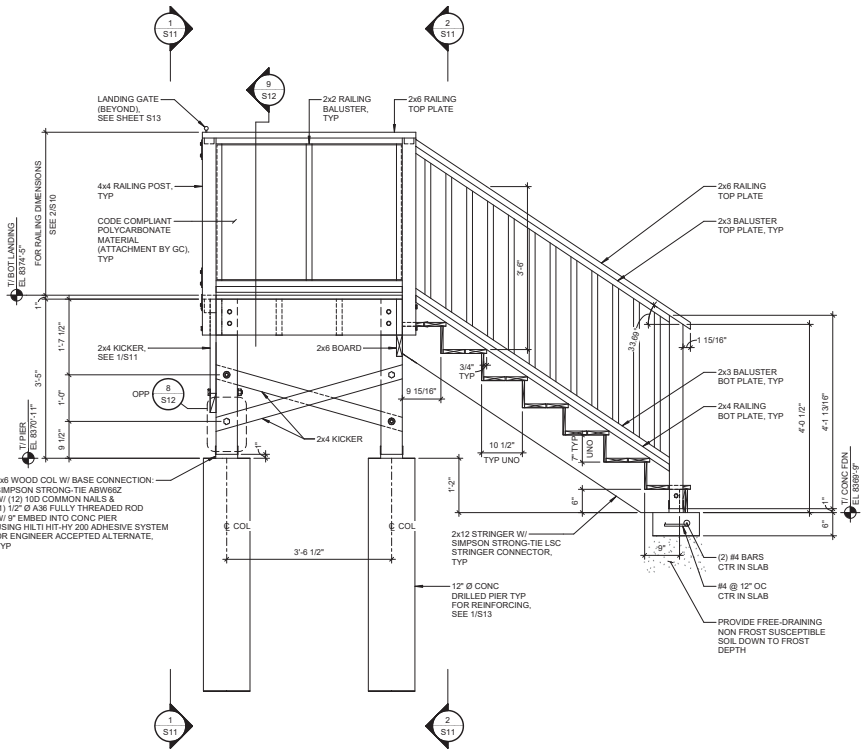
41574

5-14-24

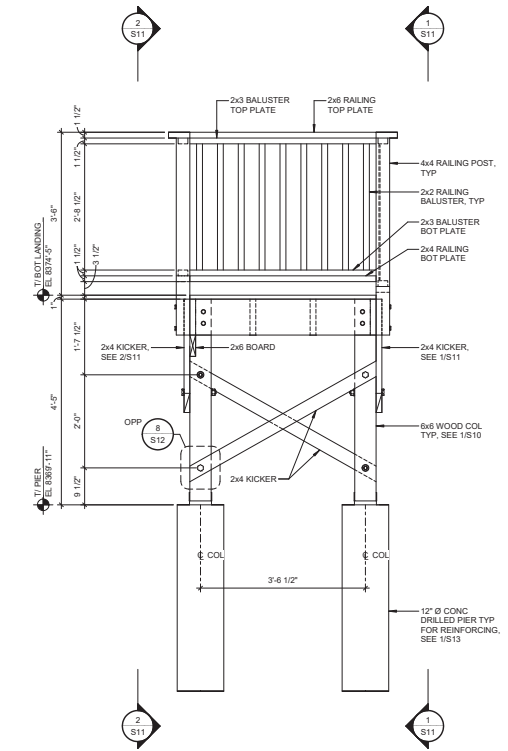
DATE: 02/05/24	DESIGNED: CRG/APF
DRAWN: DLF	APPROVED: MCM

DRAWING TITLE:
BOTTOM LANDING ELEVATIONS

PROJECT NO: 230576	DRAWING NO: S10
SCALE: AS NOTED	



1 ELEVATION (LOOKING SOUTHWEST)
3/4" = 1'-0"



2 ELEVATION (LOOKING NORTHEAST)
3/4" = 1'-0"

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 Plymouth, MN 55441

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HILL HIKER®

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 PLOWSHAY RESIDENCE
 1532 GRAND AVE
 GRAND LAKE, CO 80447**

NO.	DATE	ISSUE/REVISION	BY
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B	05/14/24	ISSUED FOR PERMIT	EJE



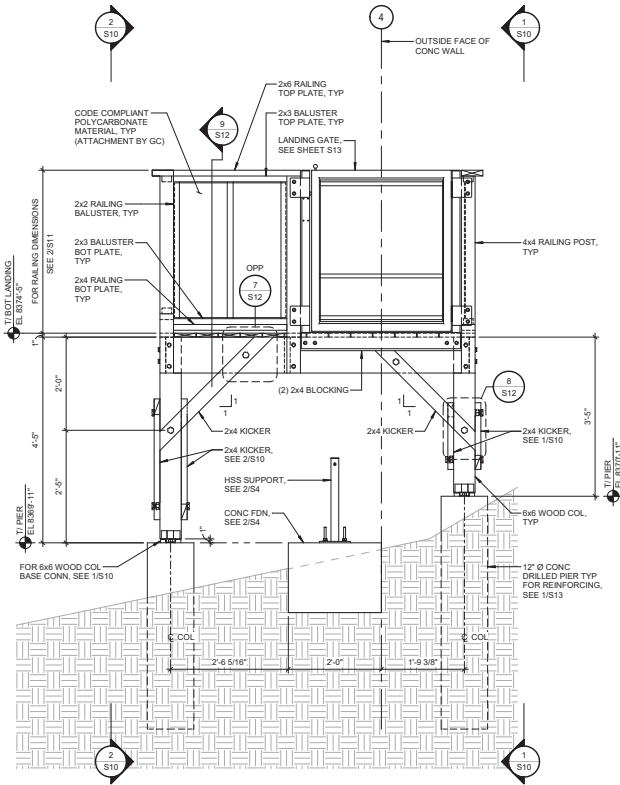
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DATE: 02/05/24	DESIGNED: CRG/APP
DRAWN: DLF	CHECKED: APP/KFB
	APPROVED: MDM

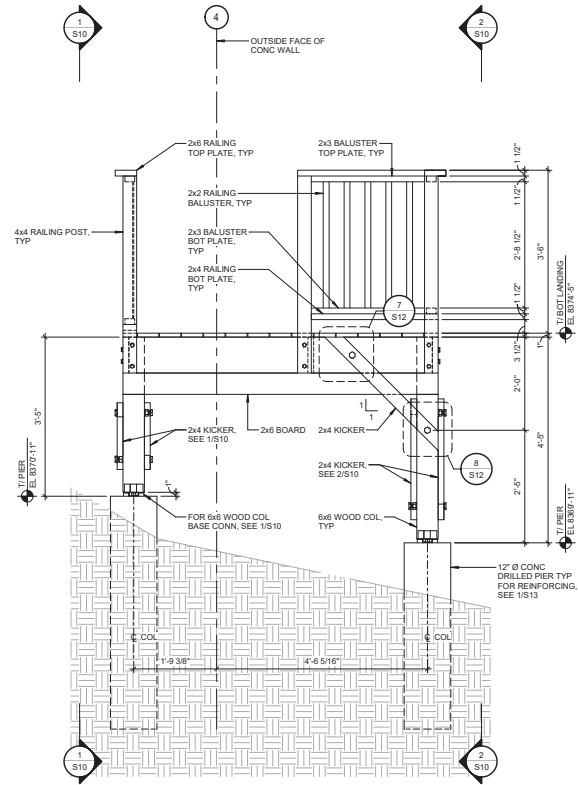
DRAWING TITLE:
**BOTTOM LANDING
 ELEVATIONS**

PROJECT NO: 230576	DRAWING NO: S11
SCALE: AS NOTED	



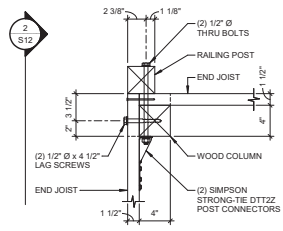
1 ELEVATION (LOOKING NORTHWEST)

3/4" = 1'-0"
 NOTE:
 HH TRACK/CAR NOT SHOWN FOR CLARITY



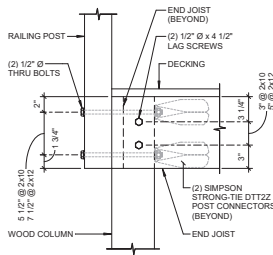
2 ELEVATION (LOOKING SOUTHEAST)

3/4" = 1'-0"
 NOTE:
 BOTTOM LANDING STAIRS NOT SHOWN FOR CLARITY



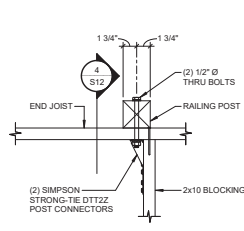
CONNECTION
DETAIL (PLAN)

1
S12 1 1/2" = 1'-0"



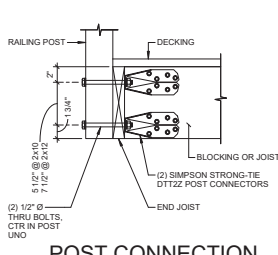
CONNECTION
DETAIL

2
S12 1 1/2" = 1'-0"



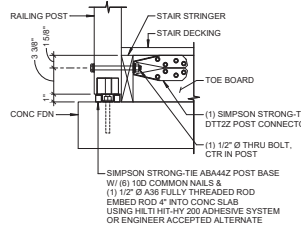
CONNECTION
DETAIL (PLAN)

3
S12 1 1/2" = 1'-0"



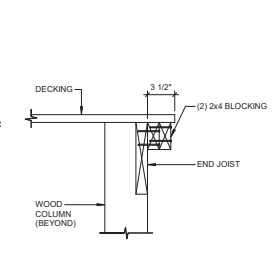
POST CONNECTION
DETAIL

4
S12 1 1/2" = 1'-0"
NOTE
CONC WALL & 2x6 SILL PLATE @ TOP LANDING
NOT SHOW FOR CLARITY



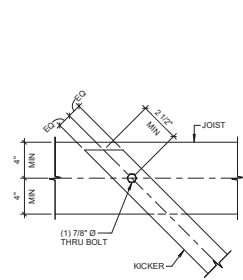
STAIR POST TO CONC
CONNECTION DETAIL

5
S12 1 1/2" = 1'-0"



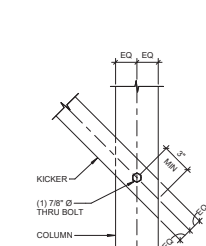
CONNECTION
DETAIL

6
S12 1 1/2" = 1'-0"



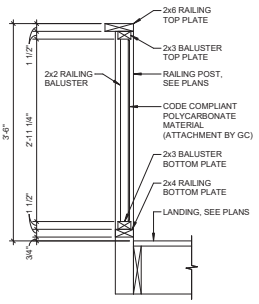
KICKER
CONNECTION DETAIL

7
S12 1 1/2" = 1'-0"
NOTE:
DECKING & 2x4 BLOCKING NOT SHOWN FOR CLARITY



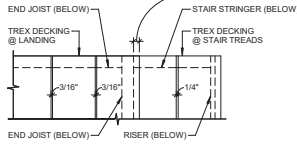
KICKER
CONNECTION DETAIL

8
S12 1 1/2" = 1'-0"



RAILING DETAIL

9
S12 1" = 1'-0"
NOTE:
FOR FASTENING SCHEDULE, SEE 11/5/12



NOTES:
1. TREX DECKING @ LANDING REQUIRES 3/16" MINIMUM WIDTH-TO-WIDTH GAPPING
2. TREX DECKING @ STAIR TREADS REQUIRES 1/4" MINIMUM WIDTH-TO-WIDTH GAPPING.

TREX GAPPING RULES

10
S12 1 1/2" = 1'-0"

FASTENING SCHEDULE	
CONNECTION	FASTENING
END JOIST TO END JOIST (END NAIL)	(3) #8x3 1/2" WOOD SCREWS OR (3) 0.148"x3 1/2" THREADED NAILS
BLOCKING BETWEEN JOISTS (TOENAIL)	(3) #8x2 1/2" WOOD SCREWS OR (3) 8d COMMON NAILS
HORIZONTAL BRACE TO END JOIST (TOENAIL)	(6) #8x3 1/2" WOOD SCREWS
RAILING TOP PLATE TO RAILING POST (END NAIL)	(3) #12x3 3/4" WOOD SCREWS OR (3) 16d COMMON NAILS
RAILING BOTTOM PLATE TO RAILING POST (TOE NAIL)	(2) #10x3 1/2" WOOD SCREWS OR (2) 10d COMMON NAILS
RAILING BALUSTER TO TOP & BOTTOM PLATE (END NAIL)	(1) #10x2 1/2" WOOD SCREWS OR (1) 0.148"x3" THREADED NAILS
FLOOR DECK TO JOISTS	PROVIDE MANUFACTURER CLIPS PER MANUFACTURER'S RECOMMENDATIONS

NOTES:
1. PROVIDE THE NAILING NOTED IN THIS SCHEDULE UNLESS MORE STRINGENT NAILINGS NOTED ON THE PLANS OR DETAILS.
2. COMMON NAIL SIZES ARE AS FOLLOWS:
- 8d = 0.131"x2 1/2"
- 10d = 0.148"x3"
- 16d = 0.162"x3 1/2"

FASTENING SCHEDULE

11
S12 1/2" = 1'-0"



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

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

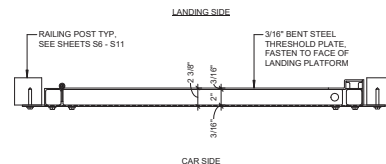
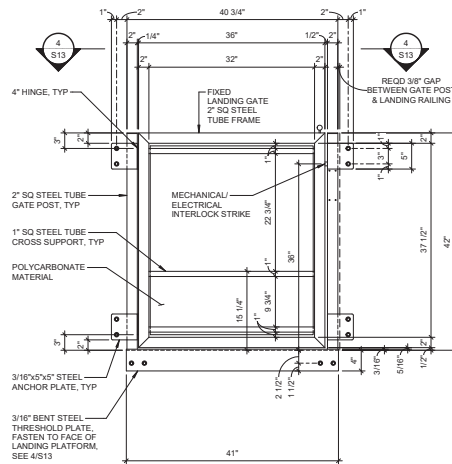
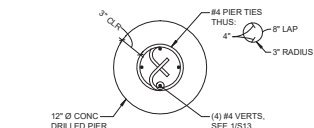
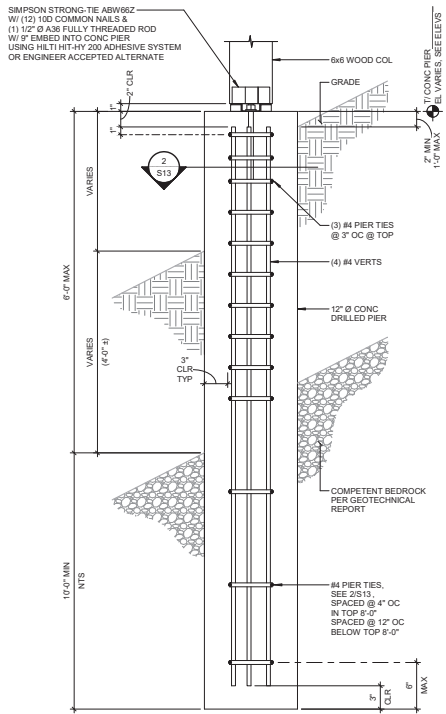


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DATE: 02/05/24	DESIGNED: CRG/APF
DRAWN: EJE	APPROVED: MCM

DRAWING TITLE:
WOOD CONNECTION DETAILS

PROJECT NO: 230576	DRAWING NO: S12
SCALE:	AS NOTED



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PROJECT:
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GRAND LAKE, CO 80447

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D	05/14/24	ISSUED FOR PERMIT	EJE



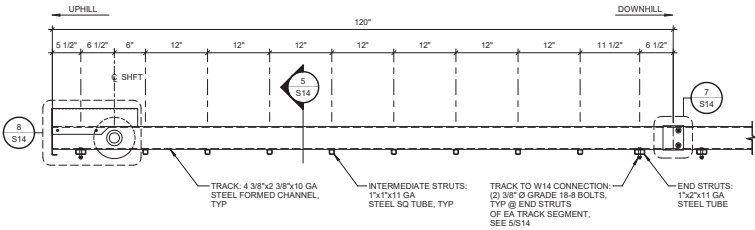
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DATE: 10/06/23	DESIGNED: CRG/APF
DRAWN: EJE	CHECKED: APF/KFB APPROVED: MDM

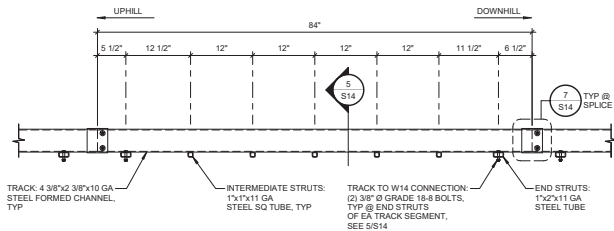
DRAWING TITLE:
PIER & LANDING GATE
DETAILS

PROJECT NO: 230576	DRAWING NO: S13
SCALE: AS NOTED	



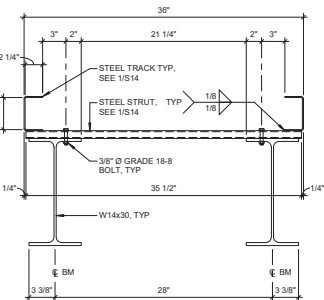
1 10'-0" LONG TOP TRACK SEGMENT DETAIL

1" = 1'-0"
 NOTES:
 1. WF BEAMS NOT SHOWN FOR CLARITY
 2. (1) LOC THUS



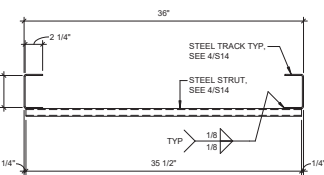
3 7'-0" LONG TRACK SEGMENT DETAIL

1" = 1'-0"
 NOTES:
 1. WF BEAMS NOT SHOWN FOR CLARITY
 2. (1) LOC THUS



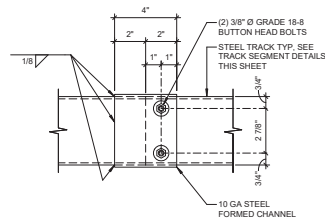
5 TRACK SECTION

1 1/2" = 1'-0"



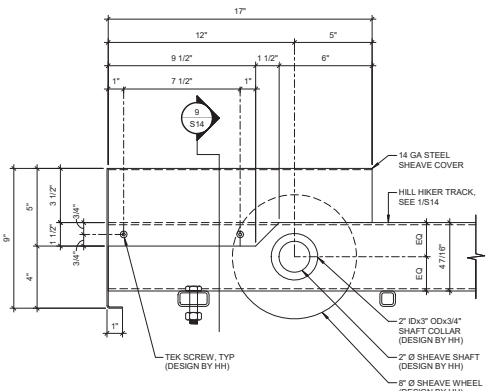
6 TRACK SECTION

1 1/2" = 1'-0"



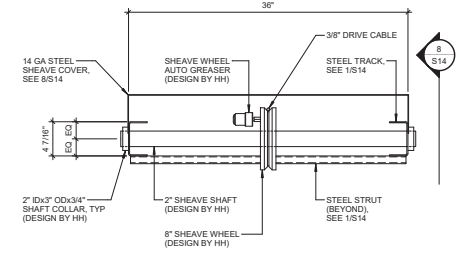
7 TRACK SPLICE DETAIL

3" = 1'-0"



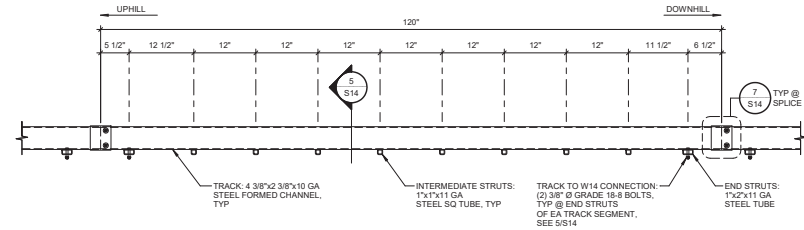
8 DEFLECTION SHEAVE DETAIL

3" = 1'-0"



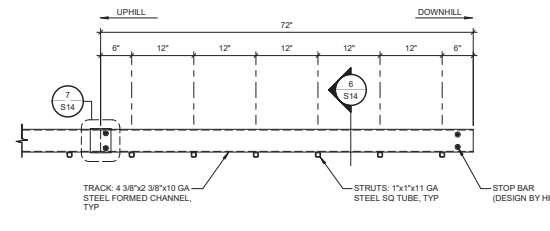
9 DEFLECTION SHEAVE DETAIL

1 1/2" = 1'-0"
 NOTE:
 TEK SCREWS NOT SHOWN



2 10'-0" LONG TRACK SEGMENT DETAIL

1" = 1'-0"
 NOTES:
 1. WF BEAMS NOT SHOWN FOR CLARITY
 2. (8) LOC THUS



4 6'-0" LONG TRACK SEGMENT DETAIL

1" = 1'-0"
 NOTE:
 (1) LOC THUS



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 GRAND LAKE, CO 80447**

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MARK D. MELNIK, P.E. 41574

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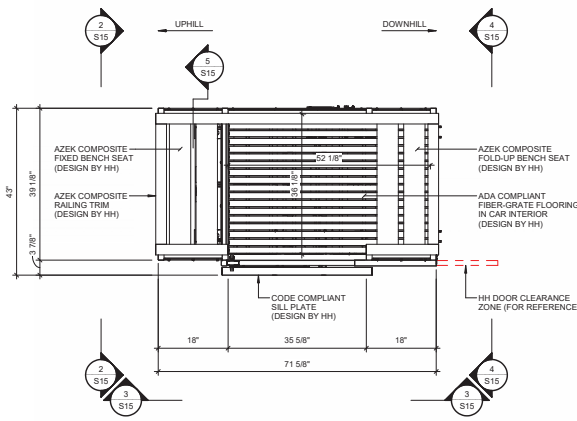
DATE: 10/06/23	DESIGNED: CRG/APP
DRAWN: EJE	CHECKED: APP/KFB
	APPROVED: MCM

DRAWING TITLE:
TRACK DETAILS

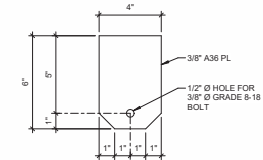
PROJECT NO.:
 230576

DRAWING NO.:
S14

SCALE:
 AS NOTED

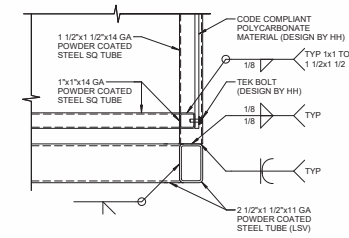


1 CAR PLAN
3/4" = 1'-0"



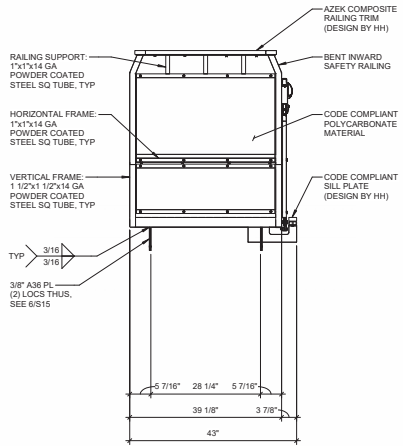
6 MOUNTING PLATE
3" = 1'-0"

NOTES:
1. (2) LCLS ON CAR UPHILL END, SEE 2/S15
2. (4) LCLS ON CAR DOWNHILL END, SEE 4/S15

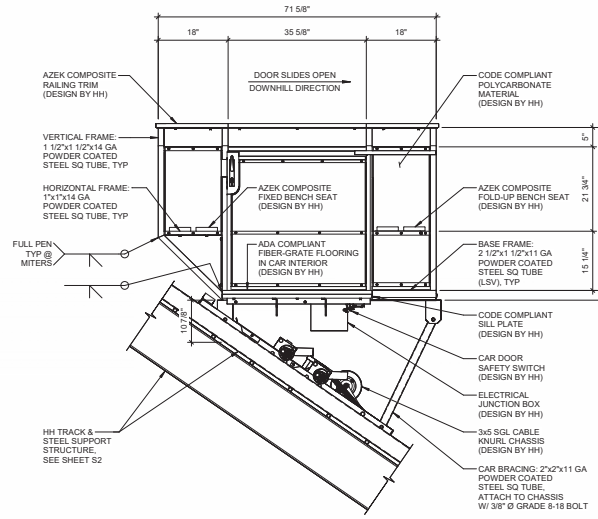


5 TYPICAL WELDS DETAIL
3" = 1'-0"

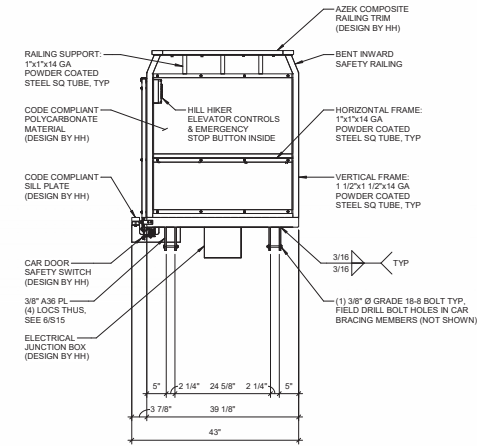
NOTE:
FLOOR NOT SHOWN FOR CLARITY



2 ELEVATION (UPHILL END)
3/4" = 1'-0"



3 SIDE ELEVATION
3/4" = 1'-0"



4 ELEVATION (DOWNHILL END)
3/4" = 1'-0"



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DATE:	DESIGNED:	
10/06/23	CRG/APF	
DRAWN:	CHECKED:	APPROVED:
EJE	APF/KFB	MDM

DRAWING TITLE:
HILL HIKER CAR

PROJECT NO:	DRAWING NO:
230576	S15
SCALE:	
AS NOTED	