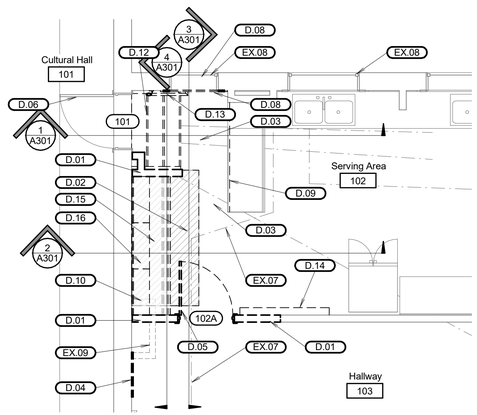
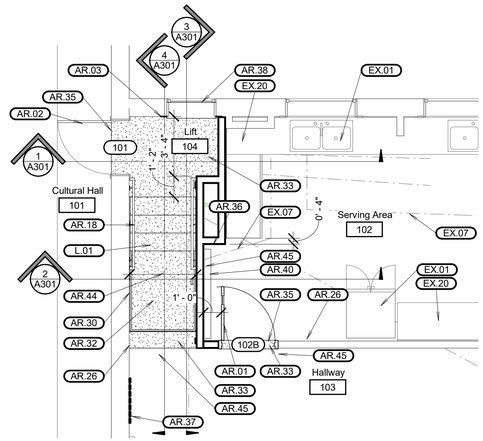


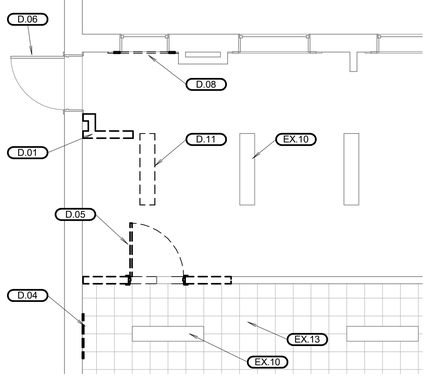
1 DEMOLITION FLOOR PLAN

SCALE: 1/4" = 1'-0"



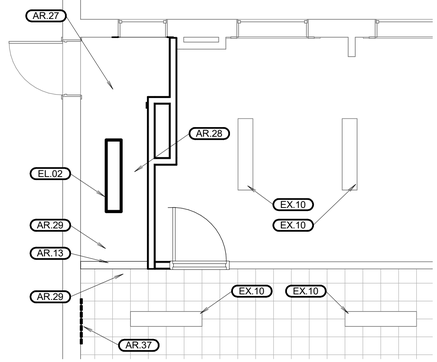
2 NEW FLOOR PLAN

SCALE: 1/4" = 1'-0"



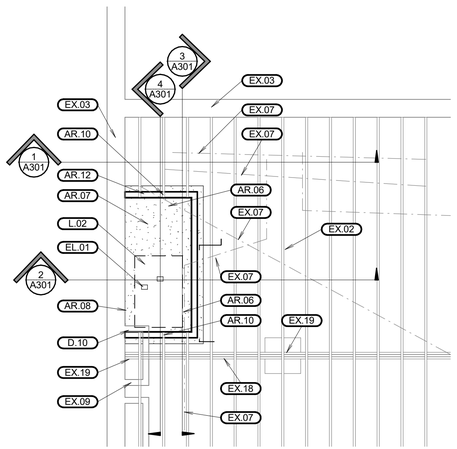
3 DEMOLITION REFLECTED CEILING

SCALE: 1/4" = 1'-0"



4 NEW REFLECTED CEILING

SCALE: 1/4" = 1'-0"

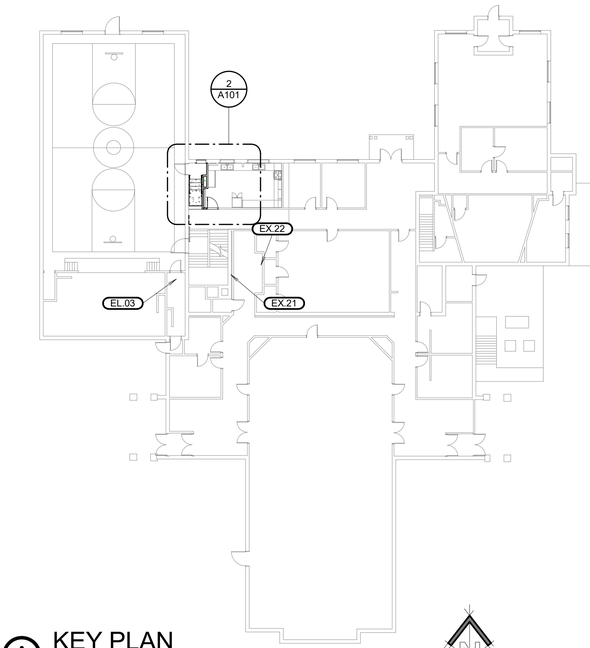


5 CRAWL SPACE PLAN

SCALE: 1/4" = 1'-0"

4' - 0" 0" 2' - 0" 4' - 0" 8' - 0" 16' - 0"

GRAPHIC SCALE: 1/4" = 1' - 0"



A KEY PLAN

SCALE: 1" = 20'-0"

DRAWING INDEX

Architectural		
	A101	DEMOLITION FLOOR AND CEILING PLAN, AND NEW FLOOR AND CEILING PLAN
	A301	SECTIONS, AND DETAILS
Structural		
	S101	PLANS
	S501	DETAILS
	S601	SCHEDULES
Electrical		
	E101	DEMOLITION AND NEW ELECTRICAL PLANS

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GENERAL NOTES

A. The Contractor shall verify all existing conditions prior to bidding.
B. All noted items are new unless noted otherwise.
C. This and any other demolition Drawings are not intended to be all-inclusive, nor to define the scope of all demolition work required for this project. Demolition drawings are shown only to aid the Contractor in preparing his bid and performing the Work. The Contractor shall examine all Contract Documents and visit the site during bidding as required to determine the total extent and scope of the demolition portion of this Work. All items that are not required to remain shall be of the demolition work whether shown specifically or not. The Contractor shall be responsible for all demolition work required to carry out the Work as shown in the Contract Documents.
D. Protect salvaged elements and items to remain during construction.
E. Verify lift model, size, clearance requirements, and riser height with the manufacturer prior to performing work in the area of the lift.
F. Properly prepare all floor and wall surfaces to receive new finishes prior to installation of new finishes.
G. Repair ceiling and wall finishes as necessary after electrical tie-in at panel.
H. Repair ceiling and wall finishes as necessary after communication line tie-ins for the new lift.
J. The Owner shall provide and install the carpet. The Contractor shall perform all carpet demolition and all carpet preparation.

EXISTING ITEM NOTES

EX.01 Existing item(s) to remain.
EX.02 Existing floor framing to remain.
EX.03 Existing foundation and footing to remain.
EX.07 Approximate location of existing utility line in crawl space below. Typical.
EX.08 Existing window to remain.
EX.09 Approximate location of existing window well in crawl space below.
EX.10 Existing light fixture to remain.
EX.13 Existing ceiling to remain.
EX.18 Approximate location of existing beam to remain.
EX.19 Approximate location of existing column to remain.
EX.20 Existing millwork to remain.
EX.21 Boiler Room location in basement below.
EX.22 Crawlspace access in Boiler Room below.

DEMOLITION ITEM NOTES

D.01 Remove existing wall.
D.02 Remove area of existing floor framing as indicated in preparation for lift installation. Verify required clearances for lift with the manufacturer prior to demolition work.
D.03 Remove area of existing floor coverings in preparation for new work.
D.04 Remove existing artwork, salvage, and store in dust-free location for later reinstallation.
D.05 Remove existing door and frame.
D.06 Remove existing door operating hardware in preparation for new hardware.
D.08 Remove existing window casing and painted wood jamb extension. Remove existing stool as necessary for new window stool installation.
D.09 Cut back of existing countertop for new wall installation.
D.10 Modify existing window well in crawl space as needed for new lift slab installation. See Structural Sheets.
D.11 Remove existing light fixture and salvage for reinstallation.
D.12 Remove existing stairs.
D.13 Remove existing handrail.
D.14 Remove existing radiant heater and salvage for reinstallation.
D.15 Remove existing lower cabinetry.
D.16 Remove existing upper cabinetry.

ARCHITECTURAL ITEM NOTES

AR.01 New door. Hardware group 21C. Closer with detent hold-open with cushion stop. (3) hinges. Smoke gasket. View window 6" wide x 29" high. Passage latchset Function F75. New hardware shall match existing hardware finish. New door shall match existing door wood species, stain color, and finish.
AR.02 Replace existing knob latchset with new lever latchset Function F75. New hardware shall match existing hardware finish.
AR.03 Repair wall finishes at window. Install new gypsum board at former jamb extention location and repair wall to transition properly to adjacent face of wall.
AR.06 Re-route all drain lines, conduit and associated electrical lines, water lines, steam lines, etc., as required due to lift installation. Pull new electrical cabling as necessary.
AR.07 8" concrete slab with thickened edge. See Structural Sheets.
AR.08 Dowel slab into existing basement wall. See Structural Sheets.
AR.10 Modify existing floor framing for new lift installation. See Structural Sheets.
AR.12 2x4 stud wall @ 16" oc.
AR.13 New beam above. Wrap in 5/8" gypsum board and finish to match adjacent gypsum board wall finishes. See Structural Sheets.
AR.18 New hardwood handrail. See B/A301 and Sections. Match existing adjacent stair handrail wood species, stain color, and finish.
AR.26 Repair wall and finishes where existing items were removed or modified.
AR.27 Repaint entire ceiling in Lift 104. New paint shall match existing color and sheen.
AR.28 Repair ceiling as necessary for light fixture relocation.
AR.29 Repair ceiling as necessary for new work.
AR.30 Skim coat existing wall and prepare wall for new texture and finishes.
AR.32 New carpet on lift platform to match existing adjacent carpet. Carpet shall be provided and installed by the Owner.
AR.33 New carpet to match existing. Carpet shall be provided and installed by the Owner.
AR.35 Install rubber transition strip at joint between new carpet and existing vinyl sheet flooring. Match existing rubber base color.
AR.36 New rubber base to match existing. Typical at new walls in this room.
AR.37 Reinstall salvaged artwork in previous location.
AR.38 Reinstall salvaged blinds in previous location.
AR.40 Reinstall salvaged radiant heater in new location.
AR.44 Coordinate required width and clearances with the lift manufacturer.
AR.45 Repair existing floor finishes as necessary for new construction work.

LIFT NOTES

L.01 New step lift. See Sections.
L.02 Step lift with steel pedestal controls mounted to platform: Active Equipment Model C. Verify model, size, clearance requirements, and riser height with the manufacturer prior to performing work in the area of the lift. 12" treads. 4 equal risers at ~6" each. Clearances shall allow for hardwood stair apron, hardwood base, and wall finishes.

ELECTRICAL AND LIGHTING NOTES

EL.01 (2) 4" x 4"-boxes on lift floor. Coordinate location and requirements with the manufacturer and the Electrical Sheets.
EL.02 New location of salvaged light fixture. See Electrical Sheets.
EL.03 Approximate location of electrical panel tie-in at basement below. See Electrical Sheets.

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DRAWING ISSUE SCHEDULE

#	DATE:	DESCRIPTION:
1	17 May 2019	Bid Documents

STAMP:

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Lafe Theodore Harris
6029898-0301
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65 E Wadsworth Park Dr, Ste 205 Phone: 801.571.0010
Draper, Utah 84020 Fax: 801.571.0303
bhdarchitects.com Toll Free: 888.571.0010

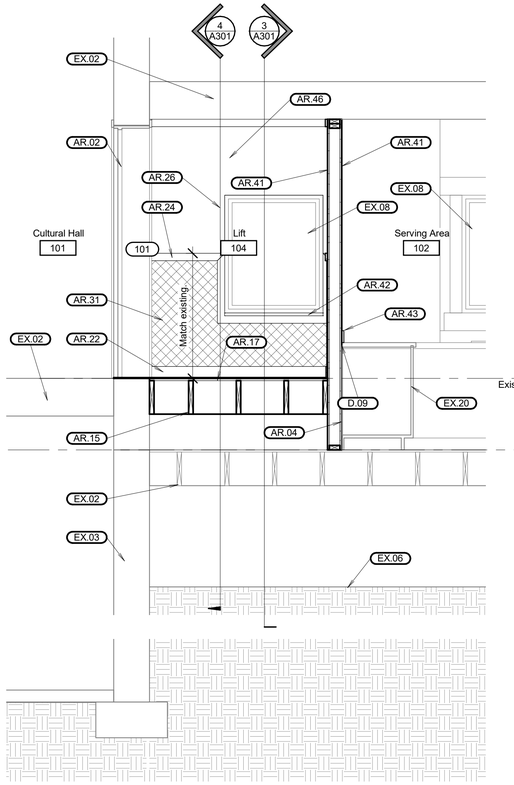
PROJECT FOR:
THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS

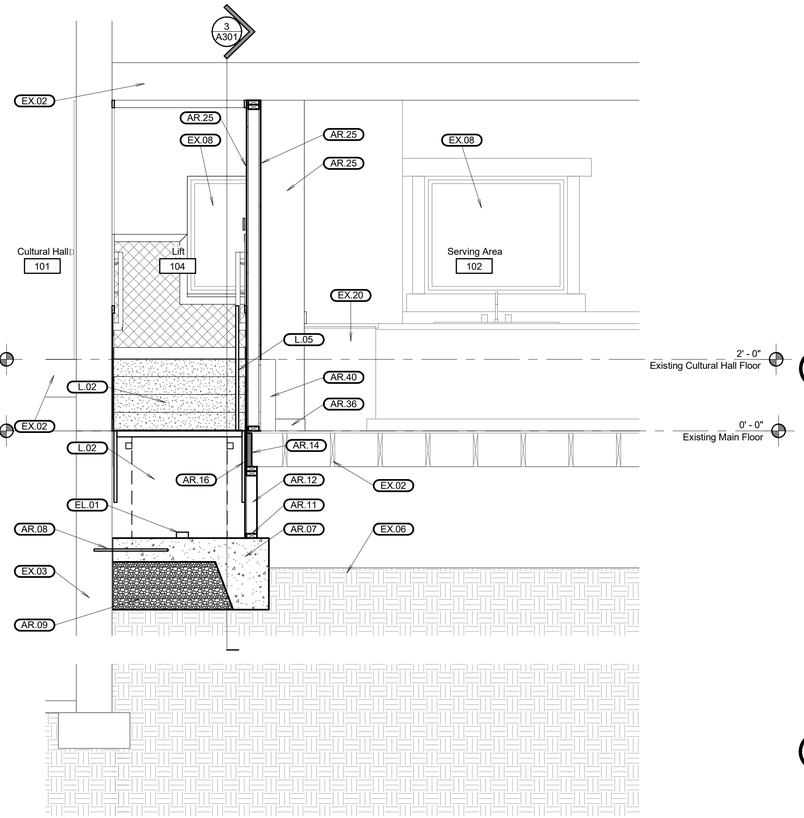
PROJECT NAME:
Hillcrest 4, 9 Wheelchair Lift
Orem UT Hillcrest Stake
440 East 800 South
Orem, Utah

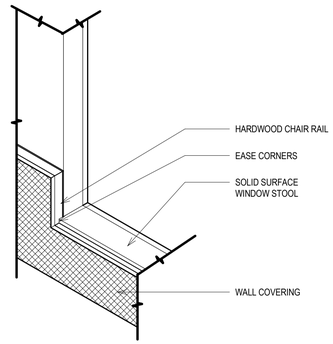
PROPERTY #: 505-4214
PLAN SERIES: N/A
BHDA PROJECT #: 1916
DATE: 17 May 2019

SHEET TITLE:
DEMOLITION FLOOR AND CEILING PLAN, AND NEW FLOOR AND CEILING PLAN

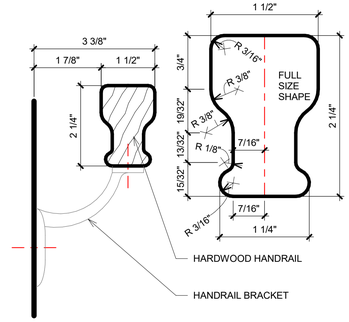
SHEET:
A101







A TYPICAL CHAIR RAIL DETAIL
SCALE: 3/4" = 1'-0"



B TYPICAL HANDRAIL DETAIL
SCALE: 6" = 1'-0"

EXISTING ITEM NOTES

EX.02	Existing floor framing to remain.
EX.03	Existing foundation and footing to remain.
EX.06	Existing finish grade to remain.
EX.08	Existing window to remain.
EX.09	Approximate location of existing window well in crawl space below.
EX.13	Existing ceiling to remain.
EX.14	Existing ceiling trim to remain.
EX.15	Existing chair rail to remain.
EX.16	Existing sisal wall covering to remain.
EX.17	Existing base to remain.
EX.18	Approximate location of existing beam to remain.
EX.19	Approximate location of existing column to remain.
EX.20	Existing millwork to remain.

DEMOLITION ITEM NOTES

D.09	Cut back of existing countertop for new wall installation.

ARCHITECTURAL ITEM NOTES

AR.02	Replace existing knob latchset with new lever latchset Function F75. New hardware shall match existing hardware finish.
AR.04	Install new wall at back of existing cabinet.
AR.07	8" concrete slab with thickened edge. See Structural Sheets.
AR.08	Dowel slab into existing basement wall. See Structural Sheets.
AR.09	Crushed, clean gravel aggregate base.
AR.10	Modify existing floor framing for new lift installation. See Structural Sheets.
AR.11	Treated 2x bottom plate.
AR.12	2x4 stud wall @ 16" oc.
AR.13	New beam above. Wrap in 5/8" gypsum board and finish to match adjacent gypsum board wall finishes. See Structural Sheets.
AR.14	New blocking or rim joist. See Structural Sheets.
AR.15	New floor joists. See Structural Sheets.
AR.16	1/2" OSB sheathing on inside of wall. Install sealant at all joints. Paint all sheathing black where not receiving wall finishes. See Structural Sheets.
AR.17	New floor sheathing. See Structural Sheets.
AR.18	New hardwood handrail. See B/A301 and Sections. Match existing adjacent stair handrail wood species, stain color, and finish.
AR.19	Extend handrail one full tread length (at the stair slope) beyond the nose of the lowest stair riser - typical.
AR.20	Extend handrail 12 inches (flat) beyond the nose of the top stair riser - typical.
AR.21	New hardwood stair apron. Match existing hardwood base profile at top. Extend apron below tread of stairs. Match existing hardwood base wood species, stain color, and finish.
AR.22	New hardwood base to match existing profile, wood species, stain color, and finish.
AR.23	New hardwood ceiling trim to match existing profile, wood species, stain color, and finish.
AR.24	New hardwood chair rail to match existing profile, wood species, stain color, and finish. Install at height to match existing adjacent chair rail.
AR.25	5/8" Type X gypsum board, sealed and painted.
AR.26	Repair wall and finishes where existing items were removed or modified.
AR.30	Skim coat existing wall and prepare wall for new texture and finishes.
AR.31	New sisal wall covering to match existing.
AR.36	New rubber base to match existing. Typical at new walls in this room.
AR.37	Reinstall salvaged artwork in previous location.
AR.38	Reinstall salvaged blinds in previous location.
AR.40	Reinstall salvaged radiant heater in new location.
AR.41	Texture and paint wall to match existing color and sheen.
AR.42	New 1/2" thick solid surface window stool at existing window. Window stool shall overhang edge of wall by 1" and shall be thickened at overhang to be 1" thick.
AR.43	New top-set backsplash on existing countertop. Match existing backsplash size at adjacent countertops. Match existing countertop materials and color. Install sealant at wall and at countertop joint.
AR.46	Repaint existing wall to match existing color and sheen.
AR.47	Align finished face of beam with finished face of wall.

LIFT NOTES

L.02	Step lift with steel pedestal controls mounted to platform: Active Equipment Model C. Verify model, size, clearance requirements, and riser height with the manufacturer prior to performing work in the area of the lift. 12" treads. 4 equal risers at ~6" each. Clearances shall allow for hardwood stair apron, hardwood base, and wall finishes.
L.03	Lower control station mounted on wall.
L.04	Upper control station mounted on wall.
L.05	Platform control mounted on steel pedestal. Pedestal shall be provided by the lift manufacturer and installed by the Contractor.

ELECTRICAL AND LIGHTING NOTES

EL.01	(2) 4" x 4"-boxes on lift floor. Coordinate location and requirements with the manufacturer and the Electical Sheets.

GENERAL NOTES

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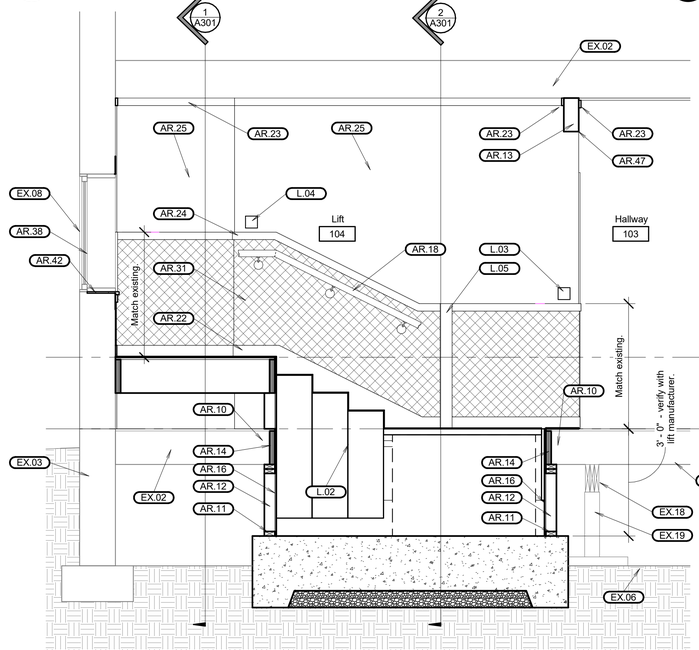
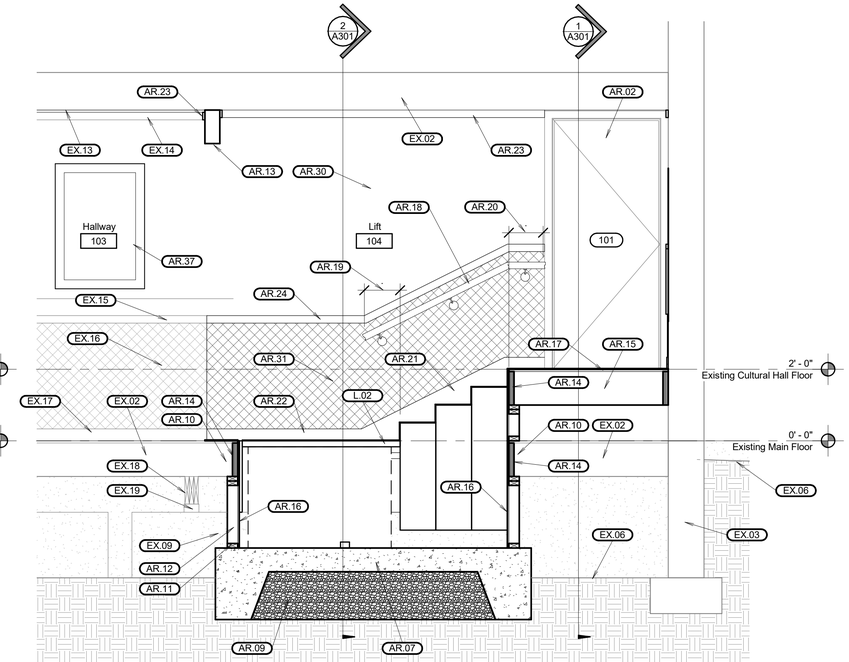
D.	Protect salvaged elements and items to remain during construction.
E.	Verify lift model, size, clearance requirements, and riser height with the manufacturer prior to performing work in the area of the lift.
F.	Properly prepare all floor and wall surfaces to receive new finishes prior to installation of new finishes.
G.	Repair ceiling and wall finishes as necessary after electrical tie-in at panel.
H.	Repair ceiling and wall finishes as necessary after communication line tie-ins for the new lift.
J.	The Owner shall provide and install the carpet. The Contractor shall perform all carpet demolition and all carpet preparation.



1 SECTION
SCALE: 1/2" = 1'-0"



2 SECTION
SCALE: 1/2" = 1'-0"

3 SECTION
SCALE: 1/2" = 1'-0"

4 SECTION
SCALE: 1/2" = 1'-0"

2' - 0" 0" 1' - 0" 2' - 0" 4' - 0" 8' - 0"

GRAPHIC SCALE: 1/2" = 1' - 0"

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DRAWING ISSUE SCHEDULE

#	DATE:	DESCRIPTION:
1	17 May 2019	Bid Doumerts

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17 MAY 2019
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65 E Wadsworth Park Dr., Ste 205 Phone: 801.571.0010
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bhdarchitects.com Toll Free: 888.571.0010

PROJECT FOR:
THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS

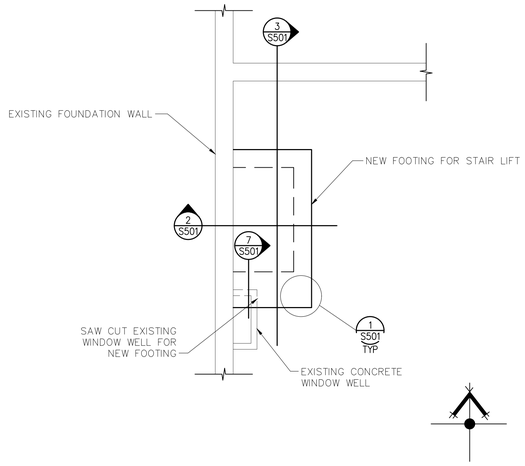
PROJECT NAME:
Hillcrest 4, 9 Wheelchair Lift
Orem UT Hillcrest Stake

440 East 800 South
Orem, Utah

PROPERTY #: 505-4214
PLAN SERIES: N/A
BHDA PROJECT #: 1916
DATE: 17 May 2019

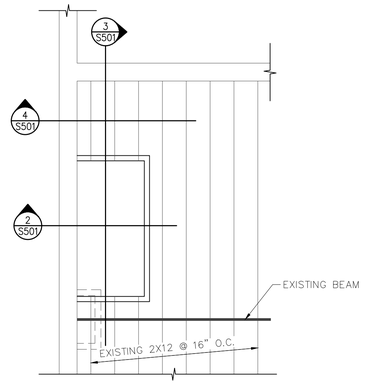
SHEET TITLE:
SECTIONS, AND DETAILS

SHEET:
A301



FOUNDATION PLAN (1) — 1/4"=1'-0"

NAME



MAIN FLOOR FRAMING PLAN (2) — 1/4"=1'-0"

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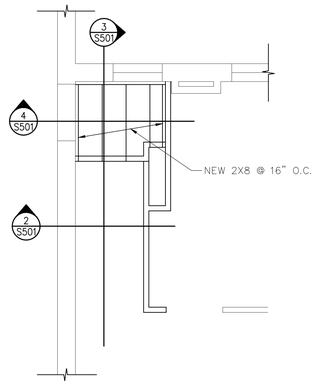
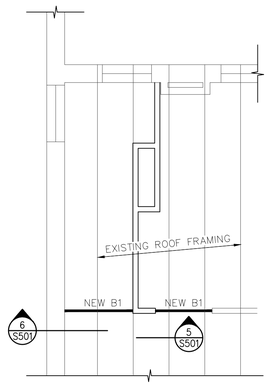


CULTURAL HALL LEVEL
FLOOR FRAMING PLAN (3) — 1/4"=1'-0"

NAME



ROOF FRAMING PLAN (4) — 1/4"=1'-0"

NAME

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1	17 May 2019	Bid Documents

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PROFESSIONAL STRUCTURAL ENGINEER
CONRAD GUYMON
265738
5/17/19
STATE OF UTAH

bhd ARCHITECTS

PROJECT FOR:
THE CHURCH OF
JESUS CHRIST
OF LATTER-DAY SAINTS

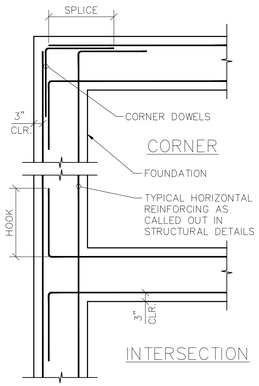
PROJECT NAME:
Hillcrest 4, 9 Wheelchair Lift
Orem UT Hillcrest Stake

440 East 800 South
Orem, Utah

DATE: 17 May 2019
BHDA PROJECT #: 1916
PLAN SERIES: N/A
PROPERTY #: 505-4214

SHEET TITLE:
PLANS

SHEET:
S101



REINFORCING DETAIL (1) — 1/2"=1'-0"
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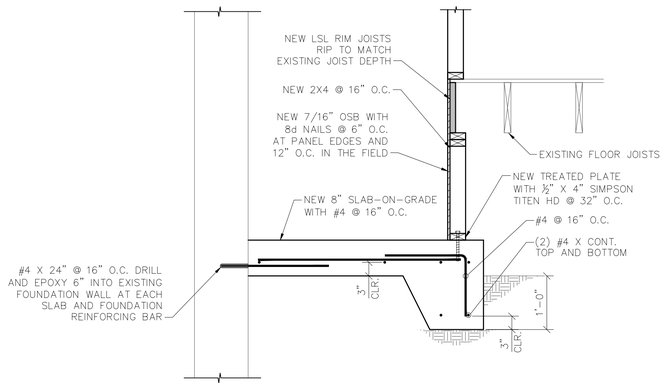
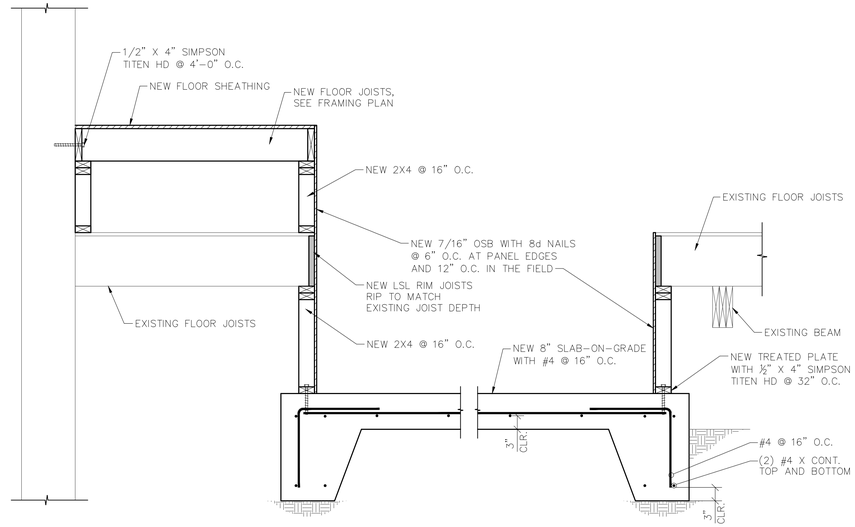


DETAIL (2) — 3/4"=1'-0"
DET1



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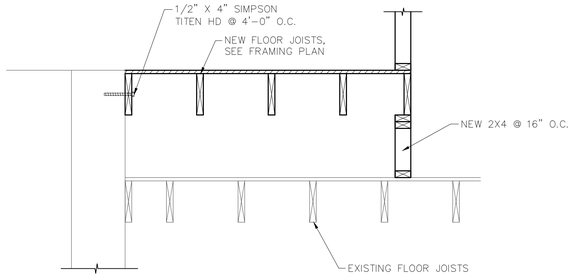
DET3



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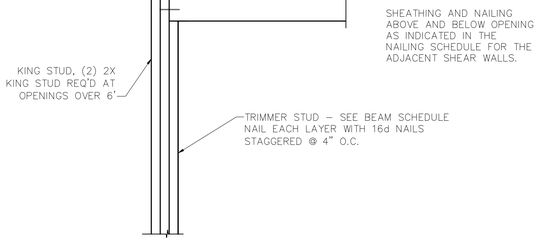
DET2



TYPICAL HEADER (5) — 1"=1'-0"
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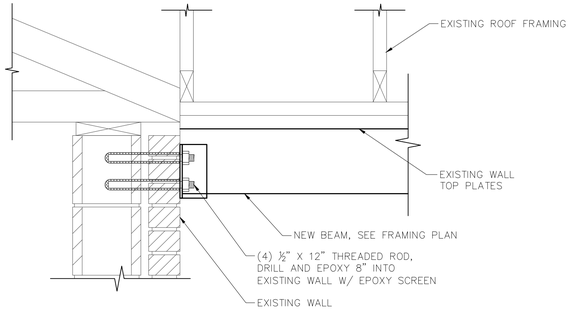

DETAIL (6) — 1 1/2"=1'-0"
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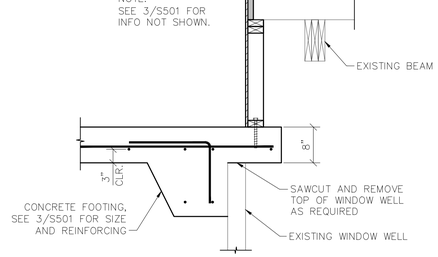

DETAIL (7) — 3/4"=1'-0"
DET4

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DRAWING ISSUE SCHEDULE

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1	17 May 2019	Bid Documents

STAMP:
PROFESSIONAL STRUCTURAL ENGINEER
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265738
5/17/19
STATE OF UTAH

BHD ARCHITECTS

PROJECT FOR:
THE CHURCH OF
JESUS CHRIST
OF LATTER-DAY SAINTS

PROJECT NAME:
Hillcrest 4, 9 Wheelchair Lift
Orem UT Hillcrest Stake

440 East 800 South
Orem, Utah

PROPERTY #: 505-4214
PLAN SERIES: N/A
BHDA PROJECT #: 1916
DATE: 17 May 2019

SHEET TITLE:
DETAILS

SHEET:
S501

SCHEDULE A

DESIGN CRITERIA

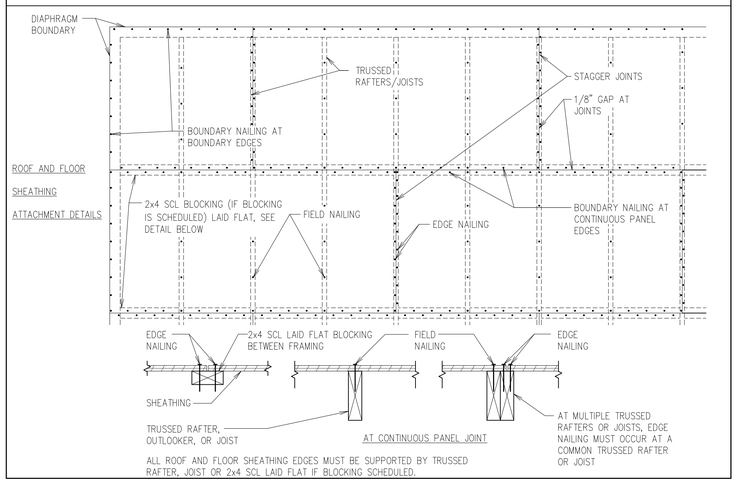
DESIGN CRITERIA	2015 INTERNATIONAL EXISTING BUILDING CODE (ASCE 7)	2015 IBC
SEISMIC	RISK CATEGORY	III
	IBC SEISMIC IMPORTANCE FACTOR	I_E = 1.25 (OWNER'S REQUIREMENT)
	MAPPED SPECTRAL RESPONSE ACCELERATION:	
	MAPPED VALUE OF S_S (FOR ALL CALCULATIONS EXCEPT C_S)	S_S = 1.223
	VALUE OF S_S USED TO CALCULATE C_S (LIMIT S_S TO 1.5 PER ASCE7)	S_S = 1.223
	S_1	S_1 = 0.436
	SOIL SITE CLASS	D
	SITE COEFFICIENT F_a	F_a = 1.011
	SITE COEFFICIENT F_v	F_v = 1.564
	DESIGN SPECTRAL RESPONSE ACCELERATION PARAMETERS	S_{DS} = 0.824
		S_{D1} = 0.455
	SEISMIC DESIGN CATEGORY	D
	BASIC SEISMIC-FORCE RESISTING SYSTEM.	ORDINARY PLAIN MASONRY SHEAR WALLS.
	RESPONSE MODIFICATION FACTOR	R = 1.5
	OVERSTRENGTH FACTOR	W_0 = 2.5
	ANALYSIS PROCEDURE USED.	ASCE 7 EQUIVALENT LATERAL FORCE PROCEDURE
	SEISMIC RESPONSE COEFFICIENT - ULTIMATE	C_S = 0.687
WIND	ASCE 7 DIRECTIONAL PROCEDURE, PART 1	
	WIND SPEED (3 SECOND GUST)	120 M.P.H.
	EXPOSURE CATEGORY	C
	WIND IMPORTANCE FACTOR	NOT APPLICABLE
ROOF	DEAD LOAD	20 P.S.F.
	ROOF SNOW LOAD - THIS LOAD REFLECTS ROOF SNOW LOAD MULTIPLIED BY THE SNOW IMPORTANCE FACTOR (VALUE SHOWN DOES NOT INCLUDE DRIFT LOAD)	33 P.S.F.
	SNOW IMPORTANCE FACTOR	I_S = 1.10
	BUILDING ELEVATION	4779
EQUIPMENT PLATFORM	DEAD LOAD	15 P.S.F.
	LIVE LOAD	40 P.S.F.
ROSTRUM	DEAD LOAD	15 P.S.F.
	LIVE LOAD	100 P.S.F.
PLATFORM	DEAD LOAD	15 P.S.F.
	LIVE LOAD	125 P.S.F.
SOIL BEARING		1500 P.S.F.

SCHEDULE B

SHEATHING TYPE AND NAILING SCHEDULE

LOCATION	SHEATHING	EDGE NAILING[1]	FIELD NAILING[1]	BOUNDARY NAILING[2]	BLOCKING AT PANEL EDGES
PLATFORM	23/32" 48/24 SPAN RATING T&G	10d AT 6" O.C.	10d AT 12" O.C.	10d AT 6" O.C.	NO
WALLS	SEE DETAILS 1/S501 AND 3/S501				

1. SEE PARTIAL PLAN BELOW FOR LOCATION OF BOUNDARY, EDGE, AND FIELD NAILING.
2. ALL FASTENERS FOR PRESERVATIVE AND FIRE RETARDANT TREATED WOOD SHALL BE HOT DIPPED ZINC COATED GALVANIZED STEEL, STAINLESS STEEL, SILICONE BRONZE, OR COPPER, UNLESS WOOD IS BORATE TREATED. EXCEPTION: PLAIN CARBON STEEL FASTENERS, INCLUDING NUTS AND WASHERS, IN SBX/DOT AND ZINC BORATE PRESERVATIVE-TREATED WOOD IN AN INTERIOR, DRY ENVIRONMENT ARE PERMITTED.
3. FOR EQUIPMENT PLATFORM, ROSTRUM, AND PLATFORM SHEATHING SHALL BE GLUED AND NAILED TO THE STRUCTURE



BEAM SCHEDULE

MARK	GRADE	DESCRIPTION	TRIMMER STUDS	REMARKS
B1	DF-L	(2) 2X8	1	

SCHEDULE C

QUALITY ASSURANCE (TESTING AND INSPECTION)

QUALITY ASSURANCE (TESTING AND INSPECTION) AS REQUIRED BY THE OWNER AND THE IBC, SHALL BE PROVIDED BY AN INDEPENDENT AGENCY EMPLOYED BY THE OWNER. THE CONTRACTOR SHALL COORDINATE AND COOPERATE WITH THE REQUIRED INSPECTIONS. ALL TESTING AND INSPECTION REPORTS SHALL BE SENT WITHIN 24 HOURS OF COMPLETION OF THE TEST OR INSPECTION TO THE OWNER, ARCHITECT, APPLICABLE ENGINEER, BUILDING OFFICIAL AND GENERAL CONTRACTOR. ITEMS REQUIRING QUALITY ASSURANCE (TESTING AND INSPECTION) ARE:

1. SOILS/ENGINEERED FILL:
   - A. REFER TO SPECIFICATIONS FOR ADDITIONAL AND SPECIFIC TESTING AND INSPECTION REQUIREMENTS
   - B. PRIOR TO PLACEMENT OF THE PREPARED FILL, THE INSPECTOR SHALL DETERMINE THAT THE SITE HAS BEEN PREPARED IN ACCORDANCE WITH THE SPECIFICATIONS
   - C. DURING PLACEMENT AND COMPACTION OF THE FILL MATERIAL, THE INSPECTOR SHALL DETERMINE THAT THE MATERIAL BEING USED AND THE MAXIMUM LIFT THICKNESS COMPLIES WITH THE SPECIFICATIONS
   - D. THE INSPECTOR SHALL DETERMINE THAT THE IN-PLACE DRY DENSITY OF THE ENGINEERED FILL MATERIAL COMPLIES WITH THE SPECIFICATIONS
     - I. CONTINUOUS FOOTING ENGINEERED FILL: SEE SPECIFICATIONS
     - II. SPOT FOOTING ENGINEERED FILL: SEE SPECIFICATIONS
     - III. SITE WORK ENGINEERED FILL (PAVED AREAS, SIDEWALKS, TRENCHES, ETC): SEE SPECIFICATIONS.
     - IIII. BUILDING PAD ENGINEERED FILL: SEE SPECIFICATIONS
2. CONCRETE:
   - A. REFER TO SPECIFICATIONS FOR SPECIFIC TESTING AND INSPECTION REQUIREMENTS
   - B. CYLINDERS, SLUMP, TEMPERATURE, AND AIR-ENTRAINMENT TESTS SHALL BE PERFORMED
   - C. CONCRETE TO BE PROTECTED DURING COLD AND HOT WEATHER
5. EPOXY ANCHORS:
   - A. REFER TO SPECIFICATIONS FOR ADDITIONAL AND SPECIFIC TESTING AND INSPECTION REQUIREMENTS
   - B. INSPECTION SHALL VERIFY ALL DRILLED HOLE SIZES AND DEPTHS PRIOR TO INSTALLATION OF EPOXY AND ANCHOR ROD. SEE SPECIFICATIONS FOR QUANTITY OF TESTING

SCHEDULE D

SITE OBSERVATIONS BY STRUCTURAL ENGINEER

SITE OBSERVATIONS SHALL BE DONE BY THE ENGINEER OF RECORD OR AN APPROVED LICENSED STRUCTURAL ENGINEER. THE CONTRACTOR SHALL NOTIFY THE ENGINEER WHEN HE HAS REACHED THE CONSTRUCTION STAGE LISTED BELOW AND BEFORE THE WORK TO BE OBSERVED IS COVERED UP, BECOMES HIDDEN FROM VIEW, OR BECOMES INACCESSIBLE. THIS IS TO PROVIDE THE STRUCTURAL ENGINEER THE OPPORTUNITY TO PERFORM A SITE OBSERVATION, AT THE ENGINEERS DISCRETION, AT THAT STAGE. AT THE CONCLUSION OF THE PROJECT, THE STRUCTURAL OBSERVER SHALL SUBMIT TO THE BUILDING OFFICIAL A WRITTEN STATEMENT THAT THE SITE VISITS HAVE BEEN MADE AND IDENTIFY ANY REPORTED DEFICIENCIES THAT HAVE NOT BEEN RESOLVED.

1. PRIOR TO CONCRETE FOOTING POURS
2. AFTER SUBSTANTIAL PLATFORM, WOOD FRAMING IS COMPLETED

SCHEDULE E

CONCRETE PROTECTION FOR REINFORCEMENT

	APPLICATION	MIN. CLEAR COVER
CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	1. ALL APPLICATIONS EXCEPT SLABS ON GRADE	3"
	2. SLABS ON GRADE - CLEAR DISTANCE FROM TOP OF SLAB	1"
CONCRETE EXPOSED TO EARTH OR WEATHER	1. #6 BARS AND LARGER	2"
	2. #5 BARS AND SMALLER	1 1/2"
NOTES	1. TOLERANCE FOR CONCRETE COVER AND REINFORCEMENT LOCATION IS ±3/8"	

SCHEDULE F

LAP SPLICE SCHEDULE

BAR SIZE	BAR OVERLAP	BAR SIZE	BAR OVERLAP	BAR SIZE	BAR OVERLAP
#3	18"	#4	24"	#5	30"
#6	36"	#7	42"	#8	48"

SCHEDULE G

REQUIRED NAIL TYPES

NOTES:

1. USE SCHEDULE D/S603 WHERE NOT DETAILED OTHERWISE IN DRAWINGS.
2. ALL NAILS NOTED ON THE DRAWINGS SHALL BE AS SHOWN BELOW UNLESS NOTED OTHERWISE; NAILS FOR 3RD PARTY HARDWARE SHALL BE AS REQUIRED BY MANUFACTURER OF HARDWARE.
3. ALL FASTENERS FOR PRESERVATIVE AND FIRE RETARDANT TREATED WOOD SHALL BE HOT DIPPED ZINC COATED GALVANIZED STEEL, STAINLESS STEEL, SILICONE BRONZE, OR COPPER, UNLESS WOOD IS BORATE TREATED. EXCEPTION: PLAIN CARBON STEEL FASTENERS, INCLUDING NUTS AND WASHERS, IN SBX/DOT AND ZINC BORATE PRESERVATIVE-TREATED WOOD IN AN INTERIOR, DRY ENVIRONMENT ARE PERMITTED.
4. LENGTH OF NAILS ATTACHING SHEATHING MAY BE REDUCED PROVIDED THAT THE MINIMUM PENETRATION NOTED BELOW IS MET.
5. NAILS USED IN SIMPSON HARDWARE (OR HARDWARE OF EQUAL VALUE) SHALL BE AS SPECIFIED BY THE MANUFACTURER.
6. OTHER FASTENERS MAY BE USED TO REPLACE NAILS BUT THEY MUST HAVE EQUIVALENT, OR LARGER, DIAMETERS AND PENETRATION LENGTHS.

ALL NAILS NOTED ON THE DRAWINGS SHALL BE AS SHOWN BELOW, UNLESS NOTED OTHERWISE.

NAIL SIZE	TYPE	STANDARD LENGTH (INCHES)	DIAMETER (INCHES)	MINIMUM PENETRATION REQUIRED (INCHES)
8d	COMMON	2 1/2	.131	1 3/8
10d	COMMON	3	.148	1 1/2
16d	BOX	3 1/2	.135	1 1/2

SCHEDULE H

SCHEDULE OF CONSTRUCTION MATERIALS

CONCRETE

LOCATION	28-DAY COMPRESSIVE STRENGTH
EXTERIOR CONCRETE (EXPOSED TO FREEZING AND/OR DE-ICERS)	4,500 P.S.I. MIX TYPE D
FOOTINGS	3,000 P.S.I. MIX TYPE A
FOUNDATION WALLS (EXPOSED TO FREEZING AND DEICERS)	4,500 P.S.I. MIX TYPE D
INTERIOR SLABS ON GRADE	3,500 P.S.I. MIX TYPE B

NOTES: 1. CONCRETE STRENGTH USED IN DESIGN IS 2500 P.S.I. 2. SEE SPECIFICATIONS 03-3111 FOR DEFINITION OF MIX TYPE.

REINFORCING STEEL

FIELD BENT BARS	ALL OTHER BARS
ASTM A615, GRADE 40 OR GRADE 60 (SEE LAP SPLICE SCHEDULE H/S003 FOR LAP LENGTHS)	ASTM A615, GRADE 60 (SEE LAP SPLICE SCHEDULE H/S003 FOR LAP LENGTHS)

WOOD

DIMENSION LUMBER

APPLICATION	SPECIES GROUP AND MINIMUM GRADE (ANY SPECIES AND GRADE LISTED MAY BE USED FOR ANY OF THE DESCRIBED APPLICATIONS).		
TOP PLATES, STRUTS, ROOF JOISTS, FLOOR JOISTS, MISC. FRAMING, HEADERS, BEAMS, LEDGERS	DOUGLAS FIR-LARCH HEM FIR MSR	#2 OR BETTER #1 OR BETTER 1650F - 1.5E OR BETTER	
BLOCKING	DOUGLAS FIR-LARCH HEM FIR MSR	#2 OR BETTER #2 OR BETTER 1650F - 1.5E OR BETTER	
POSTS AND TIMBERS 5" x 5" AND LARGER	DOUGLAS FIR-LARCH	#1 OR BETTER	
SILL PLATES	DOUGLAS FIR-LARCH HEM FIR SCL	2x4, 1 1/2"x3 1/2" SCL STANDARD OR BETTER STANDARD OR BETTER 1.3E	2x6, 2x8, 2x10, 1 1/2"x9 1/2" SCL, 1 1/2"x11 7/8" SCL #2 OR BETTER #2 OR BETTER 1.5E
EXTERIOR WALL STUDS AND INTERIOR STRUCTURAL WALL STUDS	DOUGLAS FIR-LARCH HEM FIR SCL	2x4 #2 OR BETTER #1 OR BETTER	2x6 #2 OR BETTER #1 OR BETTER
INTERIOR NON-STRUCTURAL WALL STUDS	DOUGLAS FIR-LARCH HEM FIR	2x4 STANDARD, UTILITY, CONSTRUCTION, OR BETTER STANDARD, UTILITY, CONSTRUCTION, OR BETTER	2x6 #2 OR BETTER #2 OR BETTER

STRUCTURAL COMPOSITE LUMBER (SCL) SUCH AS LVL AND LSL

	MINIMUM PROPERTY VALUES[1] - P.S.I.				
	Fb	Fv	Fc ⊥	Fc II	E x 10^6
1-1/2" x =< 5-1/2" (SEE NOTE 4 AND 5)	1,700	220	575	1,400	1.3
1-1/2" x ALL OTHER DEPTHS (SEE NOTE 4 AND 5)	2,250	220	575	1,950	1.5
1-3/4" x ALL DEPTHS	2,600	285	750	2,350	1.9
3-1/2" x ALL DEPTHS	1,700	285	680	1,400	1.3

NOTES:

1. DESIGN VALUES ARE FOR NORMAL DURATION. REPETITIVE FRAMING FACTORS AND SIZE FACTORS HAVE NOT BEEN APPLIED.
2. WEB STIFFENERS ARE REQUIRED AT ALL I-JOISTS BEARING LOCATIONS.
3. 1 3/4" MEMBERS MAY BE USED TO REPLACE 1 1/2" SCL MEMBERS. ADJUST DIMENSIONS IN PLANS AND DETAILS ACCORDINGLY.
4. LIMIT THE MODULUS OF ELASTICITY OF 1 1/2" LSL MEMBERS TO 1.55x10^6 psi.
5. LSL WOOD IS HARDER AND DENSER THAN LVL WOOD. FRAMER MUST HAVE EQUIPMENT THAT WILL DRIVE NAILS COMPLETELY INTO WOOD.

SCHEDULE J

FRAMING NAILING REQUIREMENTS

(REFER TO 2015 IBC TABLE 2304.9.1)

CONNECTION AND LOCATION	NAILING	CONNECTION AND LOCATION	NAILING
JOIST TO SILL OR GIRDER (TOENAIL)	3- 8d COMMON (2½"x0.131") 3- 3"x0.131" NAILS	DOUBLE STUDS (FACE NAIL)	16d (3½"x0.135") AT 24" O.C. 3"x0.131" NAILS AT 8" O.C.
BRIDGING TO JOIST (TOENAIL EACH END)	2- 8d COMMON (2½"x0.131") 2- 3"x0.131" NAILS	DOUBLE TOP PLATES (TYPICAL FACE NAIL)	16d (3½"x0.135") AT 16" O.C. 3"x0.131" NAILS AT 12" O.C.
1"x6" SUBFLOOR OR LESS TO EACH JOIST FACE NAIL)	2- 8d COMMON (2½"x0.131")	DOUBLE TOP PLATES (LAP SPLICE)	8- 16d COMMON (3½"x0.162") 12- 3"x0.131" NAILS
WIDER THAN 1"x6" SUBFLOOR TO EACH JOIST (FACE NAIL)	3- 8d COMMON (2½"x0.131")	BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE (TOENAIL)	3- 8d COMMON (2½"x0.131") 3- 3"x0.131" NAILS
2" SUBFLOOR TO JOIST OR GIRDER (BLIND AND FACE NAIL)	2- 16d COMMON (3½"x0.162")	RIM TO TOP PLATE (TOENAIL)	8d (2½"x0.131") AT 6" O.C. 3"x0.131" NAILS AT 6" O.C.
SOLE PLATE TO JOIST OR BLOCKING (TYPICAL FACE NAIL)	16d (3½"x0.135") AT 16" O.C. 3"x0.131" NAILS AT 8" O.C.	TOP PLATES, LAPS AND INTERSECTIONS (FACE NAIL)	2- 16d COMMON (3½"x0.162") 3- 3"x0.131" NAILS
SOLE PLATE TO JOIST OR BLOCKING AT BRACE WALL PANEL (BRACED WALL PANELS)	3- 16d (3½"x0.135") AT 16" O.C. 4- 3"x0.131" NAILS AT 16" O.C.	CONTINUOUS HEADER, TWO PIECES (16" O.C. ALONG EDGE)	16d COMMON (3½"x0.162")
TOP PLATE TO STUD (END NAIL)	2- 16d COMMON (3½"x0.162") 3- 3"x0.131" NAILS	CEILING JOISTS TO PLATE (TOENAIL)	3- 8d COMMON (2½"x0.131") 3- 3"x0.131" NAILS
STUD TO SOLE (SILL) PLATE (TOENAIL)	4- 8d COMMON (2½"x0.131") 4- 3"x0.131" NAILS	CONTINUOUS HEADER TO STUD (TOENAIL)	4- 8d COMMON (2½"x0.131")
(END NAIL)	2- 16d COMMON (3½"x0.162") 3- 3"x0.131" NAILS	DOUBLE SILL PLATES (FACE NAIL, STAGGER)	10d COMMON AT 12" O.C. EACH FACE
		BUILT-UP CORNER STUDS	16d (3½"x0.162") AT 24" O.C. 3"x0.131" NAILS AT 16" O.C.

ALL FASTENERS FOR PRESERVATIVE AND FIRE RETARDANT TREATED WOOD SHALL BE HOT DIPPED ZINC COATED GALVANIZED STEEL, STAINLESS STEEL, SILICONE BRONZE, OR COPPER, UNLESS WOOD IS BORATE TREATED. EXCEPTION: PLAIN CARBON STEEL FASTENERS, INCLUDING NUTS AND WASHERS, IN SBX/DOT AND ZINC BORATE PRESERVATIVE-TREATED WOOD IN AN INTERIOR, DRY ENVIRONMENT ARE PERMITTED.

PLOTTED: 5/17/2019 9:05 AM

#	DATE	DESCRIPTION
1	17 May 2019	Bid Documents

PROJECT FOR:
THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS

PROJECT NAME:
Hillcrest 4, 9 Wheelchair Lift
Orem UT Hillcrest Stake
440 East 800 South
Orem, Utah

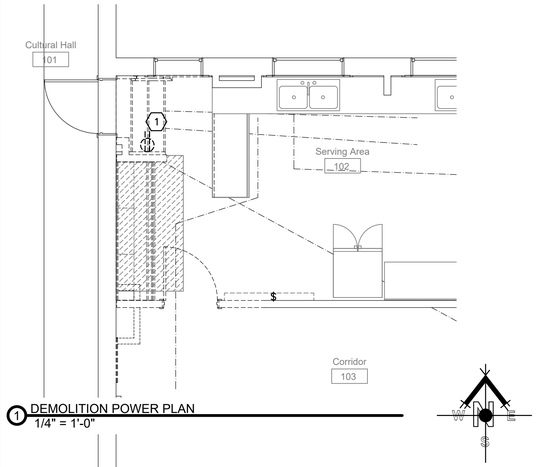
PROPERTY #: 505-4214
PLAN SERIES: N/A
BHDA PROJECT #: 1916
DATE: 17 May 2019

SHEET TITLE: SCHEDULES

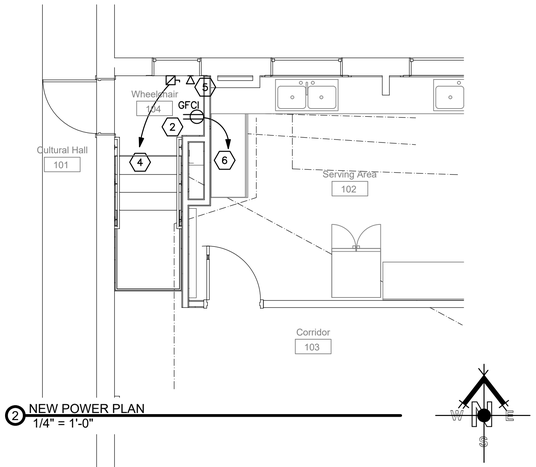
SHEET: S601

STAMP:
PROFESSIONAL STRUCTURAL ENGINEER
CONRAD GUYMON
265738
5/17/19
STATE OF UTAH

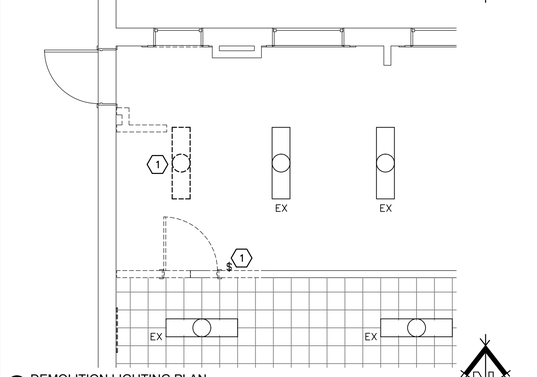
bhd ARCHITECTS



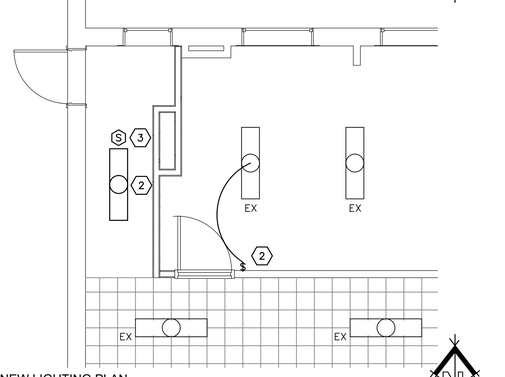
1 DEMOLITION POWER PLAN
1/4" = 1'-0"



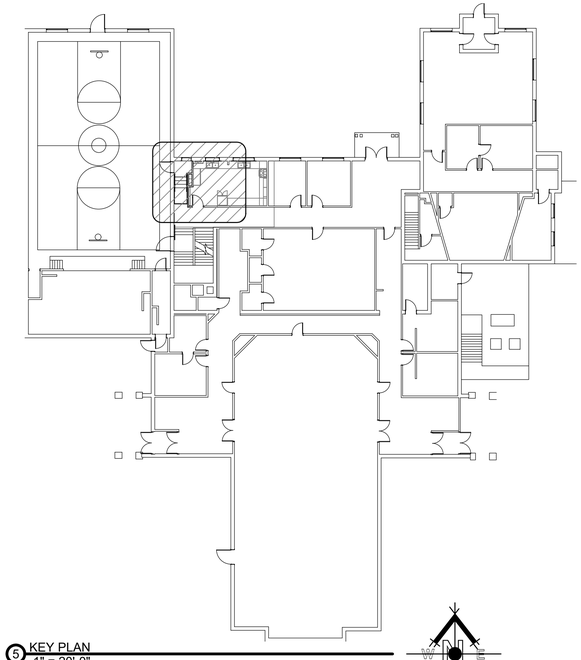
2 NEW POWER PLAN
1/4" = 1'-0"



3 DEMOLITION LIGHTING PLAN
1/4" = 1'-0"



4 NEW LIGHTING PLAN
1/4" = 1'-0"



5 KEY PLAN
1" = 20'-0"

GENERAL SHEET NOTES

1. FOR ELECTRICAL DEVICES AFFECTED BY DEMOLITION, REMOVE DEVICE AND PROVIDE ADDITIONAL WIRING TO KEEP DOWNSTREAM LOADS OPERATIONAL.

SHEET KEYNOTES

1. EXISTING ELECTRICAL DEVICE OR LIGHT FIXTURE TO BE RELOCATED.
2. RELOCATED EXISTING ELECTRICAL DEVICE OR LIGHT FIXTURE. FOR RECEPTACLE AT LIFT CHANGE OUT TO GFCI AND RUN DEDICATED CIRCUIT.
3. NEW CEILING MOUNTED OCCUPANCY SENSOR.
4. PROVIDE 30A/2P FUSED DISCONNECT WITH 20A FUSE. COORDINATE LOCATION WITH LIFT SHOP DRAWINGS. CIRCUIT TO SPARE 20/1 BREAKER IN BASEMENT ELECTRICAL PANEL. PROVIDE NEW BREAKER IN PANEL IF NO SPARE IS FOUND.
5. PROVIDE CAT 6 CABLE FROM PHONE BOARD AND TERMINATE INTO PHONE JACK AT LIFT.
6. CIRCUIT TO SPARE 20/1 BREAKER IN BASEMENT ELECTRICAL PANEL.

PLOTTED:

DRAWING ISSUE SCHEDULE

#	DATE:	DESCRIPTION:
1	17 May 2019	Bid Documents

STAMP:

LICENSED PROFESSIONAL ENGINEER
No. 5148728
DAVID G. HINCKLEY
STATE OF UTAH

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bhdarchitects.com Toll Free: 888.571.0010

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SHEET TITLE:
DEMOLITION AND NEW ELECTRICAL PLANS

SHEET:
E101