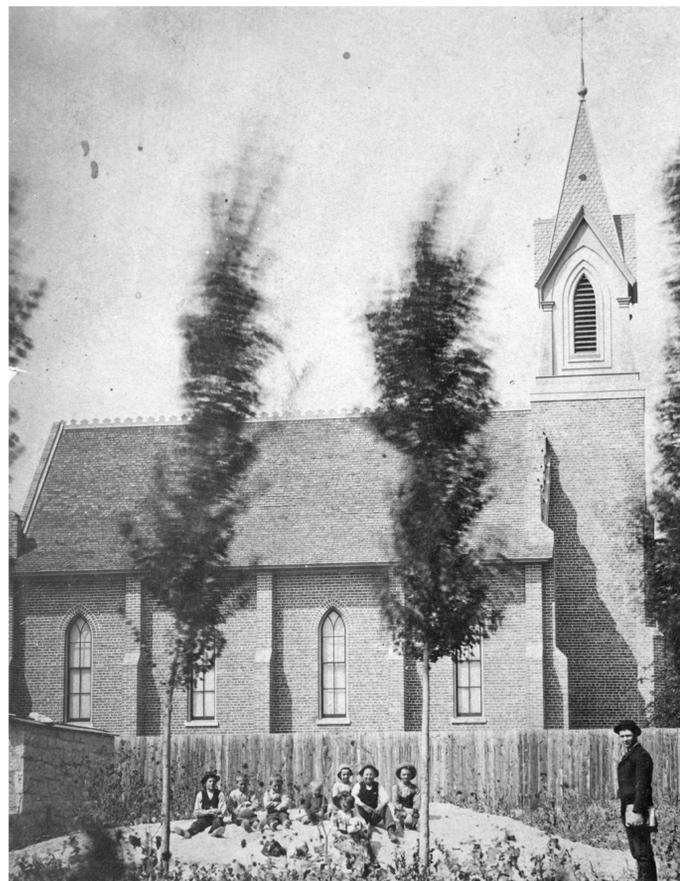


WHITE MEMORIAL CHAPEL EXTERIOR REPAIRS

160 East 300 North, Salt Lake City, Utah
DFCM Project No. 082353050



Historic 18th Ward Meeting House, c.1890



State of Utah—Department of Administrative Services

**DIVISION OF FACILITIES CONSTRUCTION
AND MANAGEMENT**

4110 State Office Building/Salt Lake City, Utah 84114/801-538-3018

APPROVALS:

PRIME AGENCY _____ DATE _____

DFCM _____ DATE _____

Architect

MJSA Architects
357 West Pierpont Avenue
Salt Lake City, Utah 84101
(801) 364-5161
(801) 364-5167 (FAX)



Structural Engineer

Reaverly Engineers & Associates
675 E. 500 South, Ste. 400
Salt Lake City, Utah 84102
(801) 486-3883



INDEX OF DRAWINGS

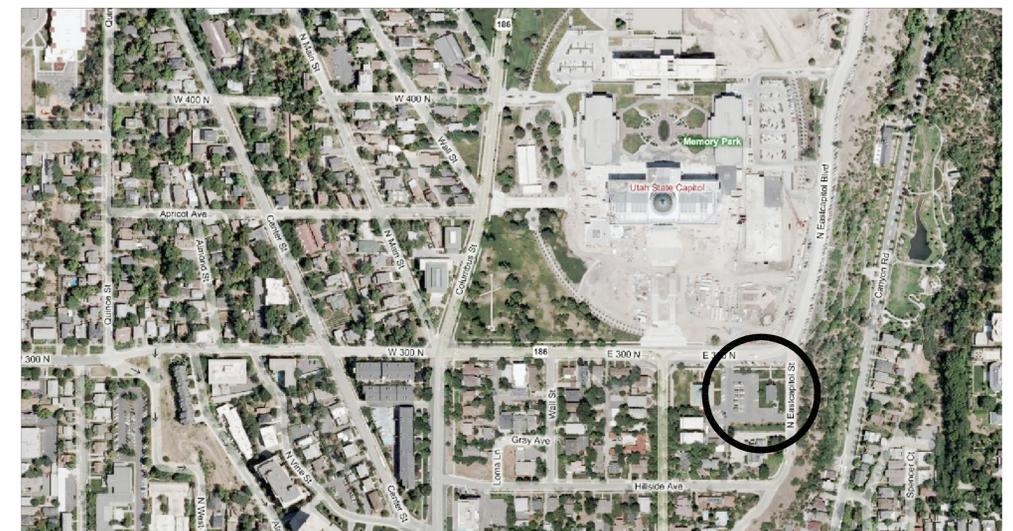
ARCHITECTURAL

- AG0-00 COVER SHEET
- AG0-01 GENERAL INFORMATION AND DESIGN DATA
- AD1-01 DEMOLITION SITE PLAN
- AS1-01 SITE PLAN
- AS1-02 PARTIAL ENLARGED SITE PLAN/NORTH STAIR AND RAMP SECTION
- AE1-01 SOUTH STAIRS PARTIAL PLANS AND ELEVATIONS
- AE2-01 BUILDING ELEVATIONS
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- AE5-01 MISCELLANEOUS DETAILS

STRUCTURAL

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- SE5-01 STRUCTURAL DETAILS
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VICINITY MAP



PERMIT SET
JULY 22, 2010

PERMIT SET

WHITE MEMORIAL CHAPEL EXTERIOR REPAIRS
DFCM PROJECT NO. 082353050
APPROX. 160 EAST 300 NORTH, SALT LAKE CITY, UT

357 West Pierpont Avenue □ Salt Lake City, Utah 84101
Telephone 801-364-5161 □ Facsimile 801-364-5167
ARCHITECTURE INTERIOR DESIGN

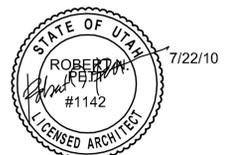
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PROJECT NO.: 10010

DATE: 7/22/10

SHEET: AG0-00



CODE ANALYSIS

PROJECT SUMMARY

EXISTING BUILDING
RECREATED HISTORIC BUILDING.

PROPOSED WORK
- REPLACEMENT OF NORTH SIDE WALKS, RAMPS AND STAIRS.
- REBUILDING OF DETERIORATED SOUTH STAIRS AND RAILINGS
RETAINING/REUSING EXISTING CONCRETE STAIR WELL AND FOUNDATION WALLS.
- REPLACEMENT OF "WEATHERING" ELEMENTS ON BUTTRESSES AND CRENELATIONS.
- WINDOWS TO BE REPAIRED WITH LIMITED RE-GLAZING TO MATCH.
- NO INTERIOR WORK

APPLICABLE CODES

Code	Year	Code	Year
International Building Code	2006	National Electrical Code	2008
International Mechanical Code	2006	International Existing Building Code	2009
International Plumbing Code	2006	ADA Accessibility Guidelines	ICC/ANSI A117.1 - 2003
International Fire Code	2006		
International Energy Conservation Code	2006		

- A. Occupancy and Group: B
- Change in Use: Yes No Mixed Occupancy: Yes No
Special Use and Occupancy (e.g. High Rise, Covered Mall): _____
- B. Seismic Design Category: D Design Wind Speed: N/A mph
- C. Type of Construction (circle one):

I	II	III	IV	V	VI
A	B	A	B	A	B
- D. Fire Resistance Rating Requirements for the Exterior Walls based on the fire separation distance (in hours):
North: 0 South: 0 East: 0 West: 0
- E. Mixed Occupancies: _____ Nonseparated Uses: _____
- F. Sprinklers:
Required: N/A Provided: N/A Type of Sprinkler System: N/A
- G. Number of Stories: 2 Building Height: 29'-2"
- H. Actual Area per Floor (square feet): UNCHANGED
- I. Tabular Area: UNCHANGED
- J. Area Modifications: NO CHANGE FROM EXISTING

a) $A_s = A_1 + \left[\frac{A_1 I_1}{100} \right] + \left[\frac{A_1 I_2}{100} \right]$ $I_1 = 100 \left[\frac{F}{P} - 0.25 \right] \frac{W}{30}$

b) Sum of the Ratio Calculations for Mixed Occupancies:

Actual Area	≤ 1	EXTERIOR REPAIRS; EXISTING AREA
Allowable Area		UNCHANGED

c) Total Allowable Area for:
 1) One Story: N/A
 2) Two Story: A₂ (2) N/A
 3) Three Story: A₃ (3) N/A

d) Unlimited Area Building: Yes No Code Section: _____

K. Fire Resistance Rating Requirements for Building Elements (hours).

Element	Hours	Assembly Listing	Element	Hours	Assembly Listing
Exterior Bearing Walls			Floors - Ceiling Floors		
Interior Bearing Walls			Roofs - Ceiling Roofs		
Exterior Non-Bearing Walls			Exterior Doors and Windows		
Structural Frame			Shaft Enclosures		
Partitions - Permanent			Fire Walls		
Fire Barriers			Fire Partitions		
			Smoke Partitions		

- L. Design Occupant Load: N/A
Exit Width Required: EXISTING Exit Width Provided: EXISTING/UNCHANGED
- M. Exits Req'd: N/A Exits Provided: N/A (NO CHANGE FROM EXISTING; DIRECTION OF SWING CORRECTED & DOOR WIDTH INCREASED)
- N. Minimum Number of Required Plumbing Facilities:
 a) Water Closets - Required (m) N/A (f) N/A Provided (m) N/A (f) N/A
 b) Lavatories - Required (m) N/A (f) N/A Provided (m) N/A (f) N/A
 c) Bath Tubs or Showers: N/A
 d) Drinking Fountains: N/A Service Sinks: N/A

FOOTNOTES:
 1) In case of conflict with the U.S. Department of Justice Federal Registers Parts 1 through 4, ADA Guidelines and specific reference to the International Building Code Accessibility Chapters, the more restrictive requirement shall govern.
 2) Additional Code Information shall be provided at the discretion of the Building Official for Complex Buildings. Including, but not limited to:
 a) High Rise Requirements.
 b) Atriums.
 c) Performance Based Criteria.
 d) Means or Egress Analysis.
 e) Fire Assembly Locator Sheet.
 f) Exterior and Interior Accessibility Route.
 g) Fire Stopping, Including Tested Design Number.

ABBREVIATIONS

ADA	AMERICANS WITH DISABILITIES ACT	LTG	LIGHTING
A.F.F.	ABOVE FINISH FLOOR	MANUF.	MANUFACTURER
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	MECH.	MECHANICAL
B.O.	BOTTOM OF	MEZZ.	MEZZANINE
C.L.	CENTER LINE	MFR.	MANUFACTURER
CLNG.	CEILING	MIN.	MINIMUM
CONC.	CONCRETE	MTL.	METAL
CONST.	CONSTRUCTION	(N)	NEW
CONT.	CONTINUOUS	N.I.C.	NOT IN CONTRACT
COORD.	COORDINATE	O.C.	ON CENTER
CORRUG.	CORRUGATED	OPP.	OPPOSITE
DEMO.	DEMOLISH	PWR.	POWER
DN.	DOWN	RCP	REFLECTED CEILING PLAN
DTL.	DETAIL	REINF.	REINFORCED
EA.	EACH	REQD.	REQUIRED
ELEC.	ELECTRICAL	SCHED.	SCHEDULE
ELECT.	ELECTRICAL	SIM.	SIMILAR
ELEV.	ELEVATION	SST.	STAINLESS STEEL
(E)	EXISTING	STL.	STEEL
EXIST.	EXISTING	STOR.	STORAGE
F.F.	FINISH FLOOR	STRUCT.	STRUCTURE
FIN.	FINISH	T.S.	TOP OF
FP	FLOOR PLAN	TYP.	TYPICAL
F.R.P.	FIBER REINFORCED PLASTIC	U.N.O.	UNLESS NOTED OTHERWISE
FT.	FEET	UL	UNDERWRITERS LABORATORIES
GYP. BD.	GYPSUM BOARD	UTIL	UTILITY / UTILITIES
IBC	INTERNATIONAL BUILDING CODE	V.I.F.	VERIFY IN FIELD
ICC	INTERNATIONAL CODE COUNCIL		
INCL.	INCLUDED		

DESIGN STANDARDS

THIS LIMITED SCOPE BUILDING REPAIR FOLLOWS CURRENT APPLICABLE DFCM STANDARDS (REFER TO: http://dfcm.utah.gov/downloads/design_manual/design_requirements.pdf DESIGN REQUIREMENTS, JUNE 11, 2009), ACCESSIBILITY ENHANCEMENTS NOT APPLICABLE DUE TO SCOPE OF CURRENT PROJECT (EXTERIOR REPAIRS).

MATERIAL LEGEND

	PLYWOOD
	FINISHED WOOD
	ROUGH WOOD (BLOCKING)
	ROUGH WOOD (CONTINUOUS)
	BATT INSULATION
	RIGID INSULATION
	COMPACTED FILL
	CONCRETE
	AGGREGATE BASE
	LIMESTONE
	SANDSTONE
	STEEL
	ALUMINUM

WALL LEGEND

	EXISTING TO REMAIN
	REMOVE WALL
	METAL STUDS
	STRUCTURAL METAL STUDS
	WOOD STUDS
	MASONRY
	CONCRETE

PROJECT GENERAL NOTES FOR ALL DRAWINGS

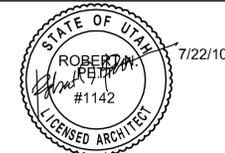
- ANY CONTRACTOR, SUBCONTRACTOR, VENDOR OR ANY OTHER PERSON PARTICIPATING IN OR BIDDING ON ANY PORTION OF THIS PROJECT SHALL BE RESPONSIBLE FOR THE INFORMATION CONTAINED IN ANY AND ALL DRAWINGS AND SPECIFICATIONS, INCLUDING, BUT NOT LIMITED TO ANY SUBSEQUENT ADDENDA OR CLARIFICATIONS THAT MAY BE ISSUED.
- THESE CONSTRUCTION DRAWINGS INDICATE THE GENERAL SCOPE OF THE PROJECT IN TERMS OF ARCHITECTURAL DESIGN CONCEPTS, DIMENSIONS OF THE BUILDING, MAJOR ARCHITECTURAL ELEMENTS, AND TYPE OF STRUCTURAL, MECHANICAL, AND ELECTRICAL SYSTEMS. THE DRAWINGS DO NOT NECESSARILY INDICATE OR DESCRIBE ALL WORK REQUIRED FOR FULL PERFORMANCE AND COMPLETION OF THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. ON THE BASIS OF THE GENERAL SCOPE INDICATED OR DESCRIBED, THE CONTRACTOR SHALL FURNISH ALL ITEMS REQUIRED FOR PROPER EXECUTION AND COMPLETION OF THE WORK.
- DRAWINGS AND SPECIFICATIONS REPRESENT FINISHED CONSTRUCTION UNLESS NOTED OTHERWISE. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MEANS AND METHODS OF CONSTRUCTION.
- THE INTENT OF ANY REFERENCED SPECIFICATION SECTION ON THE DRAWINGS OR REFERENCE NOTES IS TO FACILITATE THE CROSS REFERENCING OF THE DRAWINGS AND DESCRIPTIVE INFORMATION PROVIDED IN THE SPECIFICATIONS. THIS IS FOR THE SOLE CONVENIENCE OF THE CONTRACTOR. NO OTHER INTERPRETATIONS ARE INTENDED OR IMPLIED NOR SHALL THE CONTRACTOR ASSIGN ANY OTHER INTERPRETATIONS TO THESE NOTES OR DRAWINGS THAN THAT STATED HEREIN.
- ANY CONFLICT AMONG VARIOUS ELEMENTS OF THE NOTES, DRAWINGS, SPECIFICATIONS, AND DETAILS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND RESOLVED BEFORE PROCEEDING WITH THE WORK.
- LARGER SCALE DRAWINGS GOVERN IN CASE OF CONFLICT WITH SMALLER SCALE DRAWINGS.
- DO NOT SCALE THE DRAWINGS. USE WRITTEN DIMENSIONS. WHERE NO DIMENSION IS PROVIDED, CONSULT THE ARCHITECT FOR CLARIFICATION BEFORE PROCEEDING WITH THE WORK. THE CONTRACTOR IS RESPONSIBLE FOR ALL DIMENSIONS. CEILING HEIGHT DIMENSIONS ARE FROM FINISH FLOOR TO FINISH FACE OF CEILING.
- DETAILS AND NOTES APPEARING ON ONE DRAWING SHALL APPLY TO ALL OTHER DRAWINGS WHERE SIMILAR CONDITIONS EXIST, WHETHER OR NOT NOTED OR DETAILED.
- ALL DIMENSIONS, ELEVATIONS, AND EXISTING CONDITIONS SHALL BE CHECKED AND VERIFIED ON THE PROJECT SITE BY THE CONTRACTOR AND EACH TRADE BEFORE WORK BEGINS. DISCREPANCIES WITH THE CONDITIONS SHOWN IN THE CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION BEFORE CONSTRUCTION BEGINS.
- ALL WORK SHALL MEET OR EXCEED THE REQUIREMENTS OF ALL APPLICABLE LOCAL, STATE, AND FEDERAL CODES AND ORDINANCES, INCLUDING BUT NOT LIMITED TO, BUILDING, ELECTRICAL, PLUMBING, MECHANICAL, ENERGY, FIRE, SAFETY, DISABLED ACCESS, AND HEALTH CODES.
- THE CONTRACTOR SHALL COORDINATE LAYOUT DIMENSIONS INDICATED ON ANY CIVIL, LANDSCAPE, STRUCTURAL, ELECTRICAL, PLUMBING OR MECHANICAL DRAWINGS WITH THOSE INDICATED ON THE ARCHITECTURAL DRAWINGS. ALL DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.
- PROTECTION OF EXISTING AREAS TO REMAIN SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
- THE CONTRACTOR SHALL VERIFY ON SITE THE LOCATION AND DEPTH (ELEVATION) OF ALL EXISTING UTILITIES AND SERVICES BEFORE PERFORMING ANY EXCAVATION WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING REGARDING PROPER INSTALLATION OF MATERIALS AND EQUIPMENT, AND FOR PROTECTION OF ADJACENT CONSTRUCTION. CUTTING OR WEAKENING OF EXISTING STRUCTURAL WALL, FLOOR, OR ROOF MEMBERS IS PROHIBITED UNLESS FULLY DETAILED ON THE PLAN.
- THE DESIGN, ADEQUACY, AND SAFETY OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS, PEDESTRIAN PROTECTION, ETC. IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR, AND HAS NOT BEEN CONSIDERED BY THE ARCHITECT OR STRUCTURAL ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR STABILITY AND SAFETY OF THE STRUCTURE DURING CONSTRUCTION.
- ALL ITEMS ARE NEW UNLESS SPECIFICALLY INDICATED OR NOTED AS EXISTING OR REINSTALLED.
- ALL WALL, FLOOR AND CEILING PENETRATIONS ARE TO BE SEALED WHETHER OR NOT SPECIFICALLY SHOWN OR DETAILED.

SYMBOL LEGEND

	NORTH ARROW		ROOM IDENTIFICATION ROOM NAME ROOM NUMBER
	GRID LINE		DOOR MARK (SEE DOOR SCHEDULE)
	SECTION DETAIL NUMBER SHEET WHERE SECTION IS SHOWN		WINDOW MARK (SEE WINDOW SCHEDULE)
	EXTERIOR ELEVATION DETAIL NUMBER SHEET WHERE ELEVATION IS SHOWN		WALL TYPE INDICATOR (SEE WALL TYPE SCHEDULE)
	INTERIOR ELEVATION(S) ELEVATION NUMBER ELEVATION IDENTIFICATION SHEET WHERE ELEVATION IS SHOWN		KEY NOTE
	DETAIL REFERENCE DETAIL NUMBER SHEET WHERE DETAIL IS SHOWN		CEILING HEIGHT ROOM NAME AND NUMBER DIMENSION ABOVE FINISH FLOOR
	MATCH LINE MATCH LINE SHT. REFERENCE FOR CONTINUATION		REVISION IDENTIFICATION
	DEMOLITION		DATUM POINT ELEV. = 4742

REFERENCE NOTES

STAMP



GENERAL INFORMATION & DESIGN DATA
SCALE: AS SHOWN

PERMIT SET

WHITE MEMORIAL CHAPEL EXTERIOR REPAIRS
DFCM PROJECT NO. 082353050
APPROX. 160 EAST 300 NORTH, SALT LAKE CITY, UT

357 West Preprint Avenue Salt Lake City, Utah 84101
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ARCHITECTURE INTERIOR DESIGN

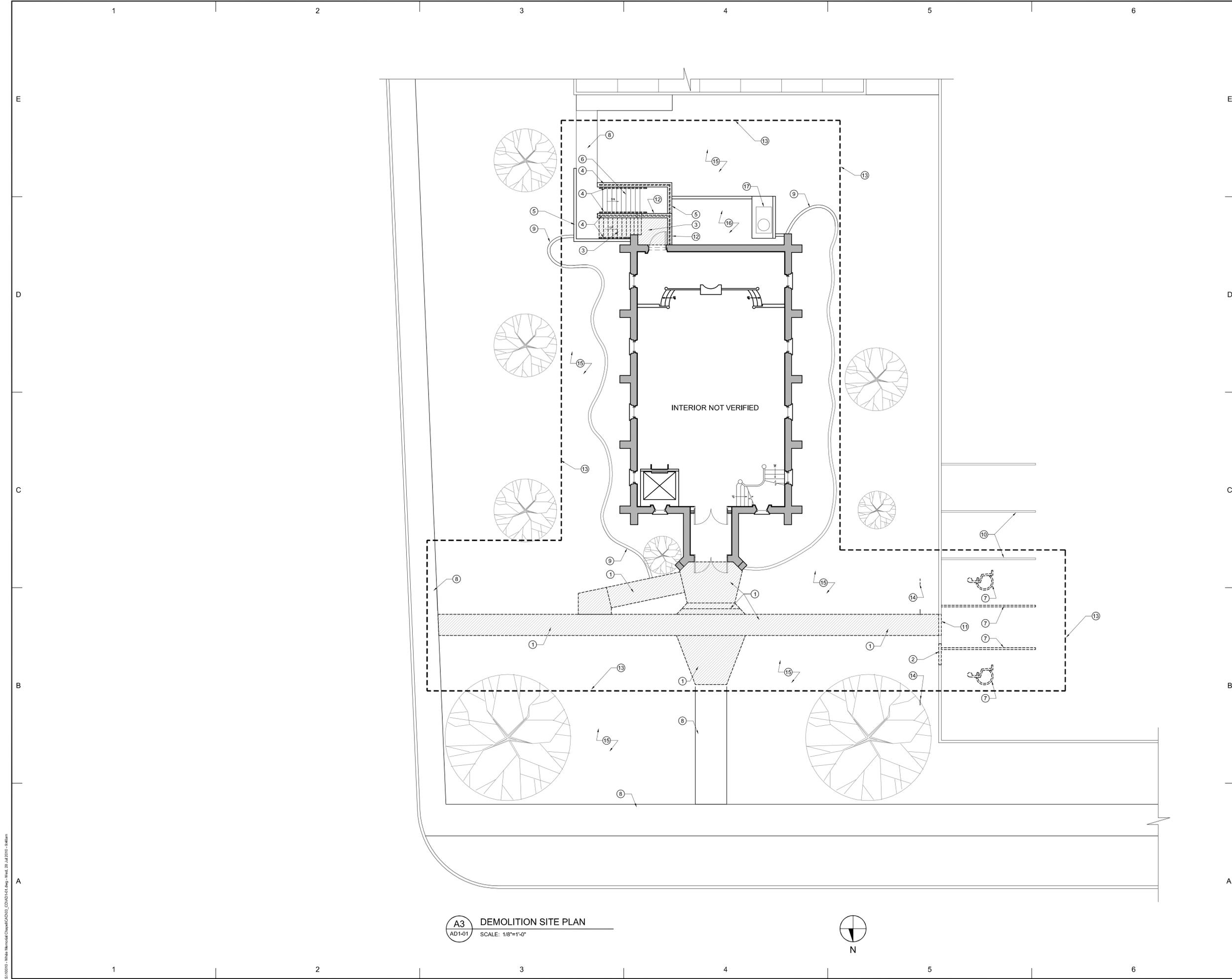
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PROJECT NO.: 10010

DATE: 7/22/10

SHEET: AG0-01



REFERENCE NOTES

1. REMOVE EXISTING SIDEWALKS, RAMPS, STEPS AND/OR RAILINGS.
2. REMOVE EXISTING CONC. CURB FOR NEW PARKING LOT ACCESS.
3. REMOVE EXISTING CONC. STAIRS AND LANDING UP TO MAIN LEVEL.
4. REMOVE EXISTING RAILING AND HANDRAILS.
5. EXISTING CONCRETE RETAINING WALL TO REMAIN.
6. EXISTING CONCRETE STAIRS TO LOWER LEVEL TO REMAIN - MODIFY AS SHOWN ON D4/AE3-01.
7. REMOVE EXISTING PARKING STRIPES AND SYMBOLS.
8. EXISTING SIDEWALK TO REMAIN.
9. EXISTING LANDSCAPE CURB TO REMAIN.
10. EXISTING PARKING STRIPE TO REMAIN.
11. REMOVE EXISTING ASPHALT, CURB/FILL.
12. REMOVE EXISTING BRICK WALL - SALVAGE AND CLEAN BRICK FOR REINSTALLATION.
13. PROJECT LIMIT LINE
14. HANDICAP PARKING SIGNAGE TO BE RE-USED.
15. EXISTING LANDSCAPING TO REMAIN. MINIMIZE IMPACT. COORDINATE WITH IRRIGATION SYSTEM.
16. REMOVE TURF AND IRRIGATION.
17. EXISTING MECHANICAL TO REMAIN.

PERMIT SET

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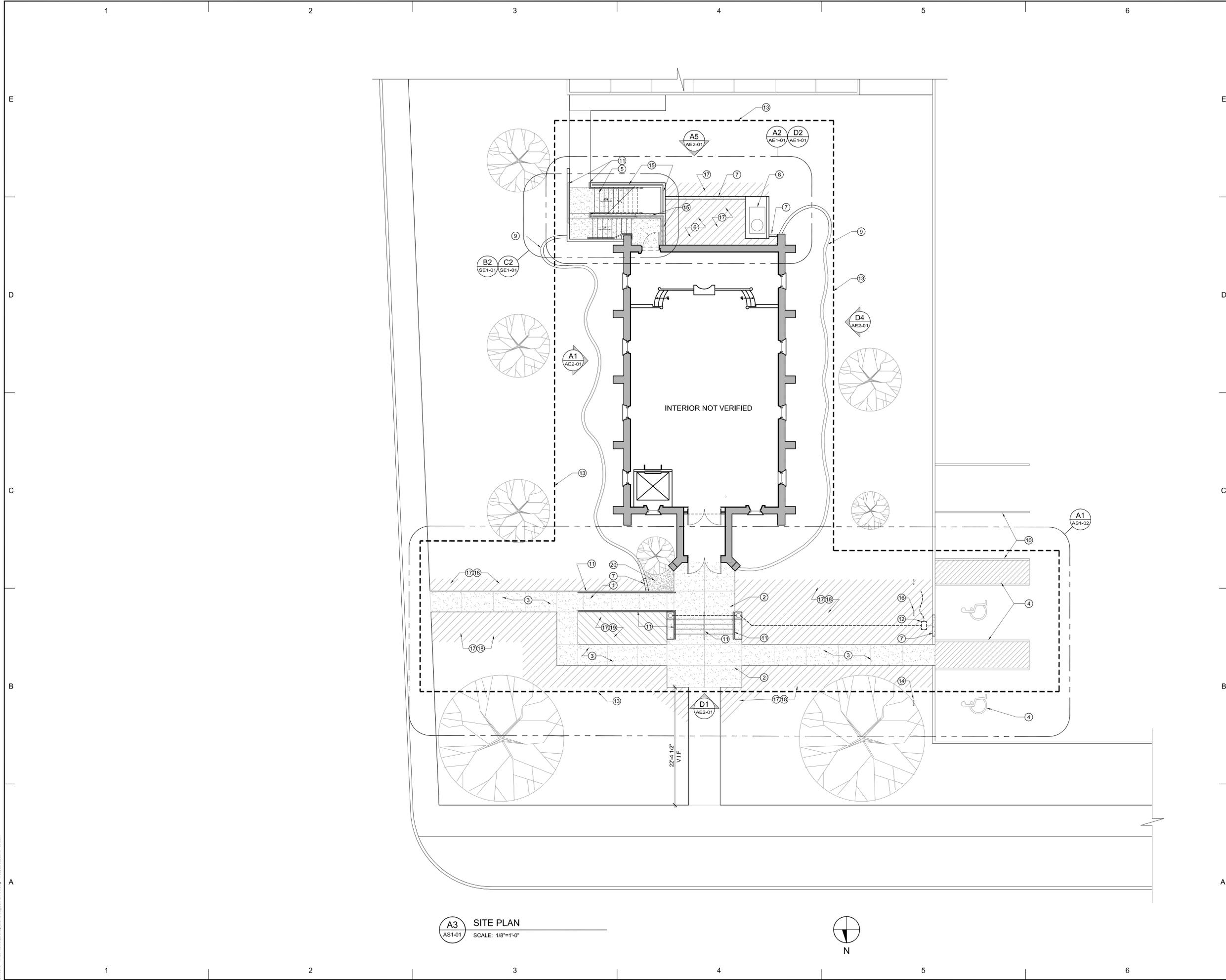
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STATE OF UTAH
 ROBERT D. JENSEN
 #1142
 LICENSED ARCHITECT
 7/22/10

PROJECT NO.: 10010
 DATE: 7/22/10
 SHEET: AD1-01

A3 DEMOLITION SITE PLAN
 AD1-01 SCALE: 1/8"=1'-0"





REFERENCE NOTES

1. RAMP AND HANDRAIL.
2. CONCRETE LANDING AND STAIRS.
3. CONCRETE SIDEWALK.
4. RE-STRIPED PARKING STALLS.
5. CONCRETE STAIRS OVER EXISTING CONCRETE STAIRS.
6. INSTALL WEED BARRIER AND GRAVEL MULCH.
7. CONCRETE CURB - MATCH EXISTING OR AS SHOWN.
8. EXISTING MECHANICAL PAD AND EQUIPMENT.
9. EXISTING LANDSCAPE CURB.
10. EXISTING PARKING STRIPE TO REMAIN.
11. HANDRAIL.
12. IN-GRADE ELECTRICAL BOX FOR NEW EXTERIOR LIGHTS.
13. PROJECT LIMIT LINE.
14. EXISTING HANDICAP PARKING SIGNAGE TO REMAIN.
15. GUARDRAIL.
16. RELOCATE/REINSTALL EXIST. HANDICAP PARKING SIGNAGE.
17. MODIFY/REPAIR IRRIGATION SYSTEM; COORDINATE WITH OWNER.
18. REGRADE AS NEEDED TO MATCH EXISTING GRADES. PREPARE SOIL AND INSTALL SOD AS SPECIFIED.
19. REGRADE AS SHOWN. PREPARE SOIL AS SPECIFIED FOR OWNER INSTALLED PLANTS.
20. REGRADE AND INSTALL ORGANIC MULCH SIM. EXISTING.

PERMIT SET

 WHITE MEMORIAL CHAPEL EXTERIOR REPAIRS
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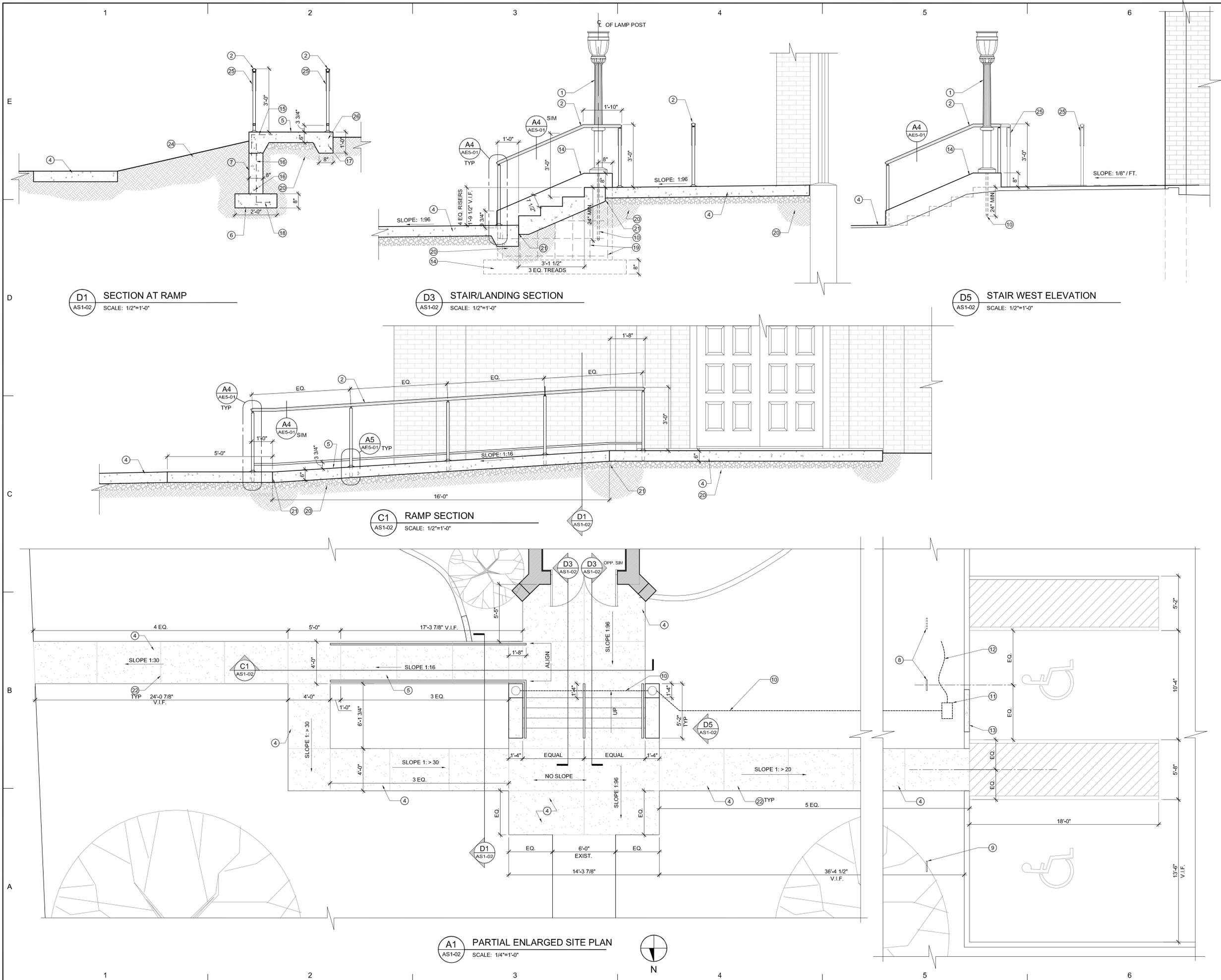
PROJECT NO.: 10010
 DATE: 7/22/10
 SHEET: AS1-01

SITE PLAN
 SCALE: -

A3 SITE PLAN
 AS1-01 SCALE: 1/8"=1'-0"



8/10/10 - White Memorial Chapel AE2-01, CD2010-01.dwg - Wed, 28 Jul 2010 10:54:46am



REFERENCE NOTES

- EXTERIOR STANDARD - REFURBISH AND INSTALL OWNER PROVIDED FIXTURE. COORDINATE ANCHORAGE AND WIRING REQUIREMENTS.
- BRONZE HANDRAIL "JULIUS BLOOM" OR OTHER APPROVED EQUAL - SEE DETAIL SHEET AE5-01.
- NOT USED.
- CONCRETE LANDING / SIDEWALK, 6" TYP.
- CONCRETE RAMP.
- CONCRETE FOOTING.
- CONCRETE RETAINING WALL.
- RELOCATE/REINSTALL EXIST. HANDICAP PARKING SIGNAGE.
- EXISTING HANDICAP PARKING SIGNAGE TO REMAIN.
- 1" CONDUIT 24" BELOW GRADE TO BOTH EXTERIOR STANDARDS (FIXTURES) - PULL TWO #8 AND ONE #10 WIRES.
- IN-GRADE CONCRETE ELECTRICAL JUNCTION BOX, APPROX. 12" X 18"
- CONTRACTOR TO PROVIDE TEMPORARY POWER FOR TESTING / VERIFICATION OF INSTALLED EXTERIOR STANDARDS. FINAL POWER CONNECTION BY SEPARATE PARKING LOT LIGHTING PROJECT.
- PATCH / REPAIR CONCRETE CURB TO MATCH EXISTING.
- CONCRETE CHEEK WALL. REINFORCE WITH #4 @ 10" O.C. VERT. EAC FACE, #4 @ 10" O.C. HOR. EACH FACE
- DOWEL TO MATCH VERT. WALL REINF.
- #4 @ 12" O.C.
- (2) #4 CONT REBAR.
- (3) #4 CONT REBAR.
- #4 HOR. AND VERT. CONT. REBAR @ 10" O.C. EACH FACE.
- COMPACTED FILL.
- EXPANSION JOINT FILLER.
- JOINT (EXPANSION, CONSTRUCTION, ETC.)
- MODIFY / REMODEL EXISTING IRRIGATION SYSTEM.
- REPLACE EXISTING LANDSCAPE (TURF, BEDS, ETC.) TO MATCH EXIST. BLEND ALL SLOPE TRANSITIONS, EXTENDING NEW TURF AS NEEDED. COORDINATE WITH DFCM.
- RAMP HANDRAIL BEYOND.
- THICKENED CONC. TYP AT ALL RAILING POST LOCATIONS.

GENERAL NOTES

- CONTRACTOR TO VERIFY ELEVATIONS OF ALL ELEMENTS TO REMAIN ON ACCESSIBLE ROUTE (THRESHOLD, SIDEWALKS, PARKING LOT, ETC.)

STAMP

STATE OF UTAH
 ROBERT D. JENSEN
 #1142
 LICENSED ARCHITECT
 7/22/10

PARTIAL ENLARGED SITE PLAN
 SCALE: -

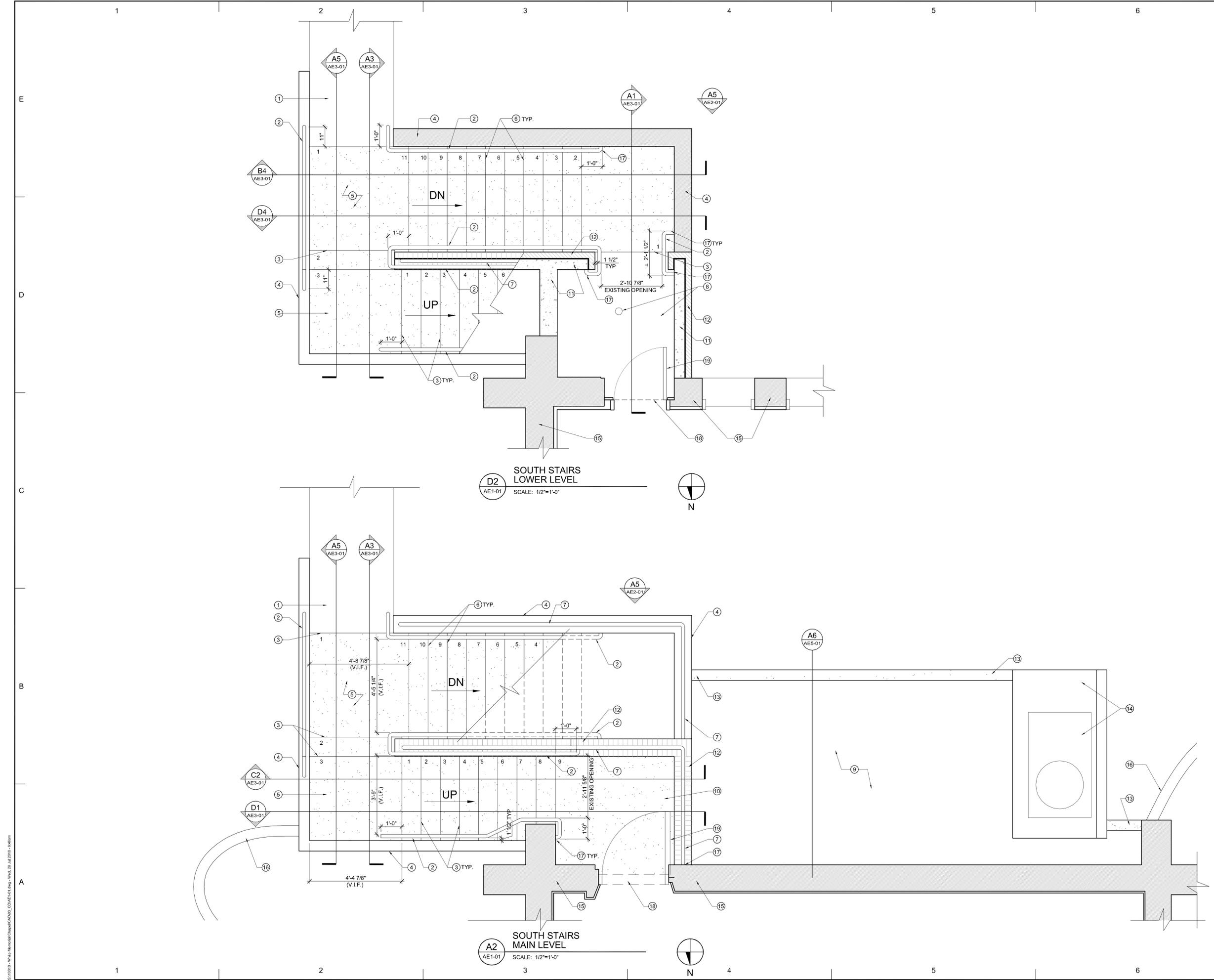
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MJSA
 ARCHITECTURE INTERIOR DESIGN

PROJECT NO.: 10010
 DATE: 7/22/10
 SHEET: AS1-02

8/10/10 White Memorial Chapel CD02_CD03_CD04_CD05_V04.dwg 28 Jul 2010 10:48am



REFERENCE NOTES

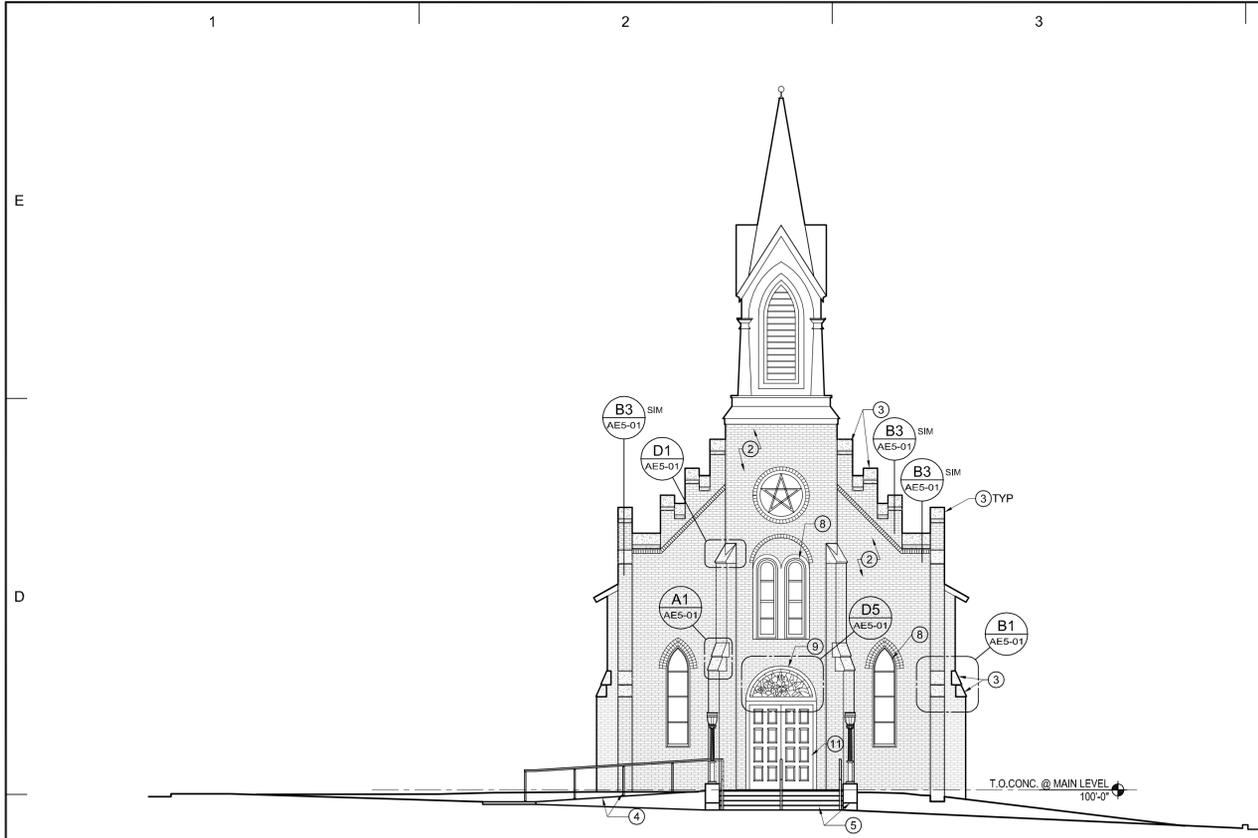
1. EXISTING CONCRETE SIDEWALK.
2. HANDRAIL
3. CONCRETE STAIR RISERS.
4. EXISTING CONCRETE RETAINING WALL.
5. CONCRETE LANDING - RE: STRUCTURAL
6. CONC. STAIRS OVER EXISTING STAIRS - RE: STRUCTURAL.
7. GUARDRAIL.
8. EXISTING CONCRETE LANDING AND DRAIN.
9. LOWER GRADE (± 6") TO PREVENT WATER DAMAGE AT WINDOWS. MODIFY/REMOVE IRRIGATION THIS AREA. NEW WEED BARRIER FABRIC AND GRAVEL - 4" DEEP, MIN.
10. SUSPENDED CONCRETE LANDING 2% MAX SLOPE FROM THRESHOLD. RE: STRUCTURAL.
11. REINFORCED CONCRETE WALL ON EXISTING FOUNDATION / RETAINING WALL. RE: STRUCTURAL.
12. REBUILT WALL WITH SALVAGED BRICK VENEER TO MATCH EXISTING.
13. CONCRETE CURB/MOW STRIP. MATCH T.O. EXISTING ADJACENT CONCRETE. SLOPE TO MATCH GRADE.
14. EXISTING MECHANICAL EQUIPMENT AND PAD; PROTECT IN PLACE.
15. EXISTING BUILDING WALL, BUTTRESS, ETC.
16. EXISTING CONCRETE MOW STRIP.
17. RETURN HANDRAIL ENDS TO WALL. TYP.
18. EXISTING THRESHOLD - REMOVE AND REINSTALL IF NEEDED FOR ADJACENT WORK.
19. EXISTING DOOR TO REMAIN.

STAMP

SOUTH STAIRS PARTIAL PLANS AND ELEVATIONS
SCALE: 1/4"=1'-0"

PERMIT SET
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 DATE: 7/22/10
 SHEET: AE1-01

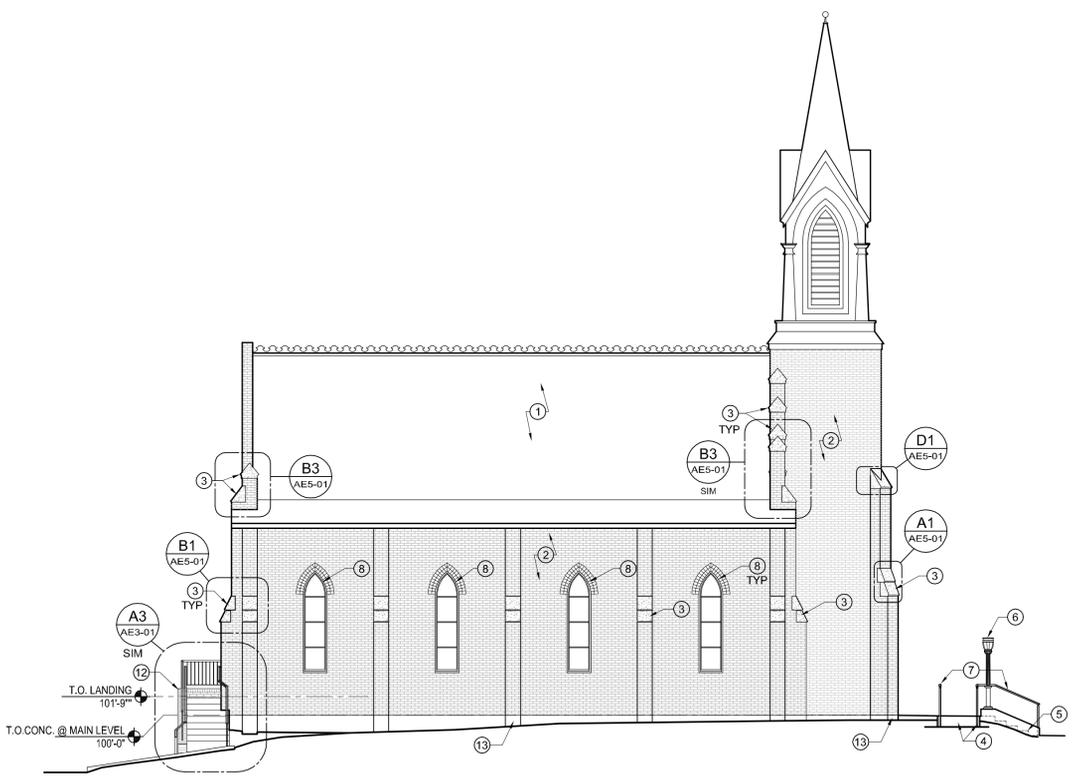
8/10/10 - White Memorial Chapel AE1-01.dwg - Wed, 28 Jul 2010 10:54:46am



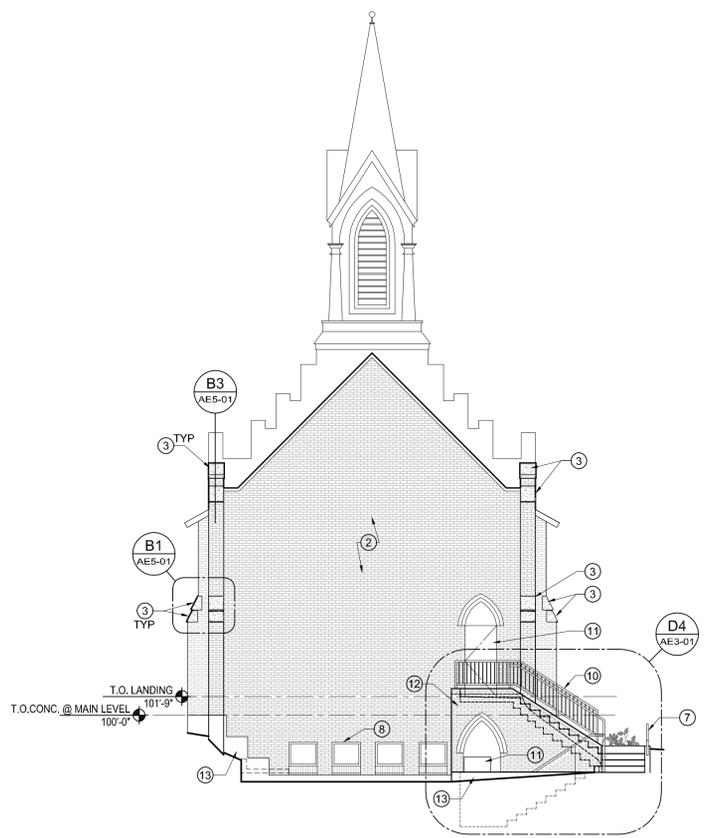
D1 NORTH ELEVATION
AE2-01 SCALE: 1/8"=1'-0"



D4 WEST ELEVATION
AE2-01 SCALE: 1/8"=1'-0"



A1 EAST ELEVATION
AE2-01 SCALE: 1/8"=1'-0"



A5 SOUTH ELEVATION
AE2-01 SCALE: 1/8"=1'-0"

- REFERENCE NOTES**
- EXISTING ROOF TO REMAIN.
 - EXISTING BRICK TO REMAIN.
 - CAST STONE CAPS, PROFILE AND LENGTHS VARY.
 - RAMP AND HANDRAIL.
 - CONCRETE STAIRS, CHEEKWALLS, ETC..
 - REFURBISHED EXTERIOR LIGHT STANDARD.
 - HANDRAIL.
 - EXISTING WINDOW TO REMAIN.
 - EXISTING TRANSOM FRAME TO REMAIN, NEW STAINED GLASS WINDOW.
 - GUARDRAIL.
 - EXISTING DOOR TO REMAIN.
 - REBUILD STOOP WALLS, ETC.
 - REPAIR FOUNDATION PARGING TO MATCH - ALL LOCATIONS NOT SHOWN.

- GENERAL NOTES**
- BRICK COURSING SHOWN HERE IS APPROXIMATE. SEE REFERENCED DETAILS FOR BETTER REPRESENTATION.

STAMP

STATE OF UTAH
ROBERT D. [Signature]
#1142
LICENSED ARCHITECT

7/22/10

BUILDING ELEVATIONS
SCALE: -

PERMIT SET

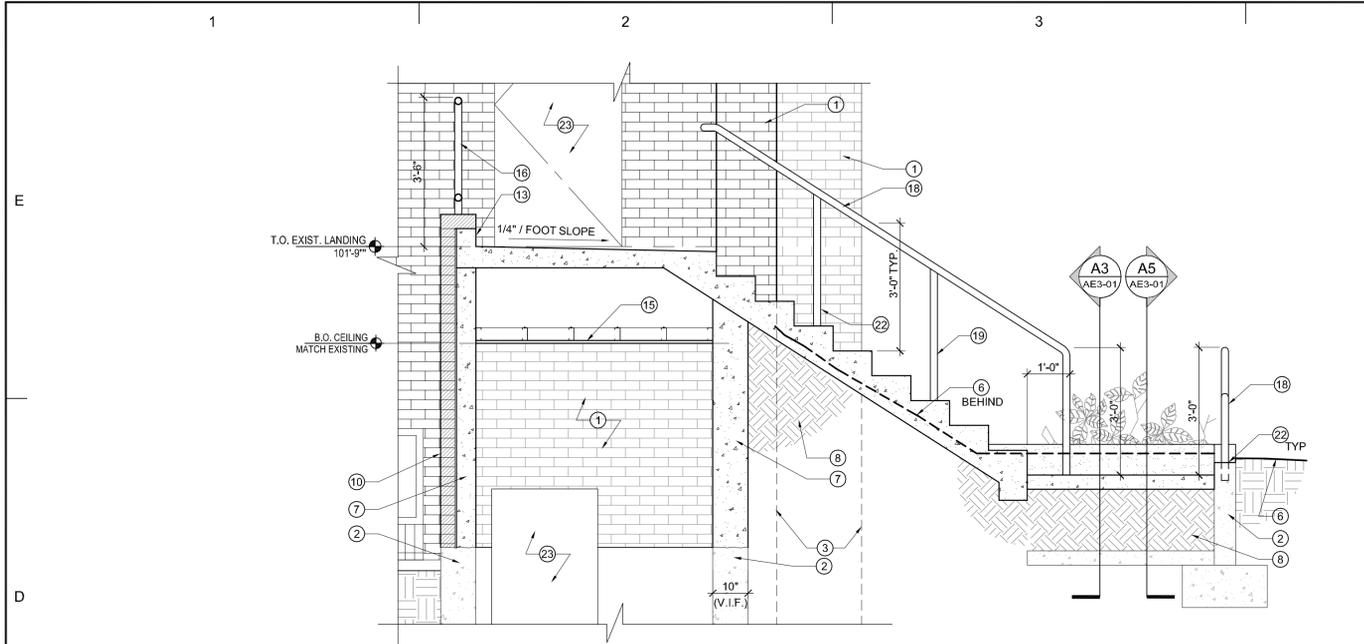
WHITE MEMORIAL CHAPEL EXTERIOR REPAIRS
DFCM PROJECT NO. 082353050
APPROX. 160 EAST 300 NORTH, SALT LAKE CITY, UT

357 West Pleasant Avenue Salt Lake City, Utah 84101
Telephone 801-384-5161 Facsimile 801-384-5167
MJSA
ARCHITECTURE INTERIOR DESIGN

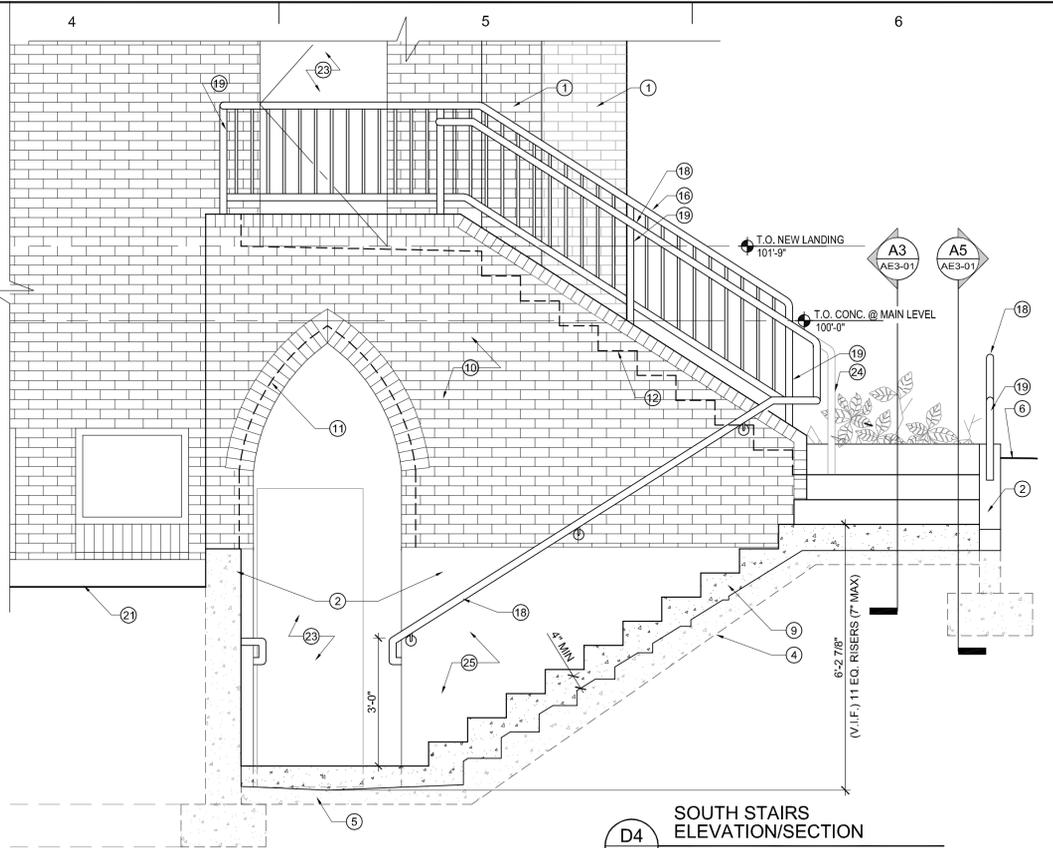
MJSA

PROJECT NO.: 10010
DATE: 7/22/10
SHEET: AE2-01

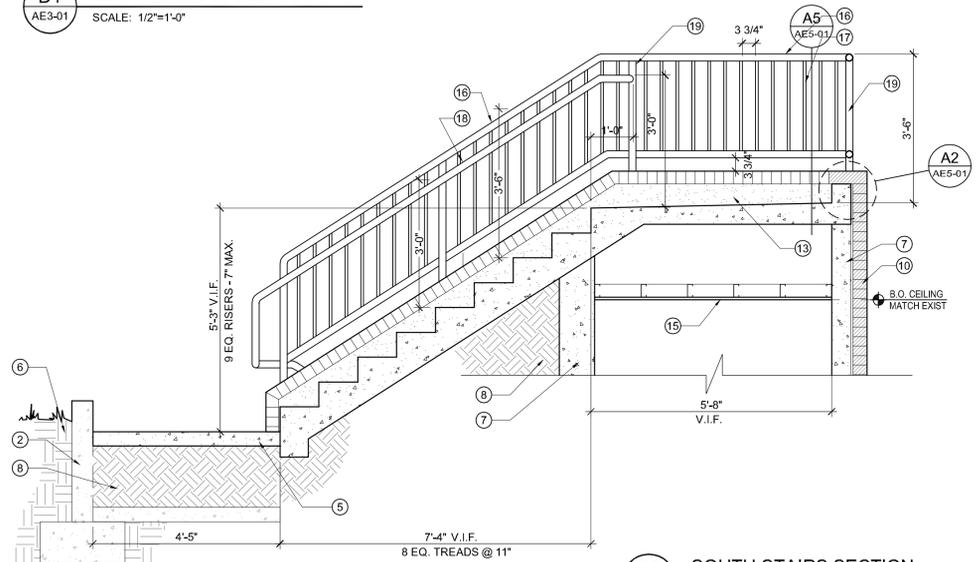
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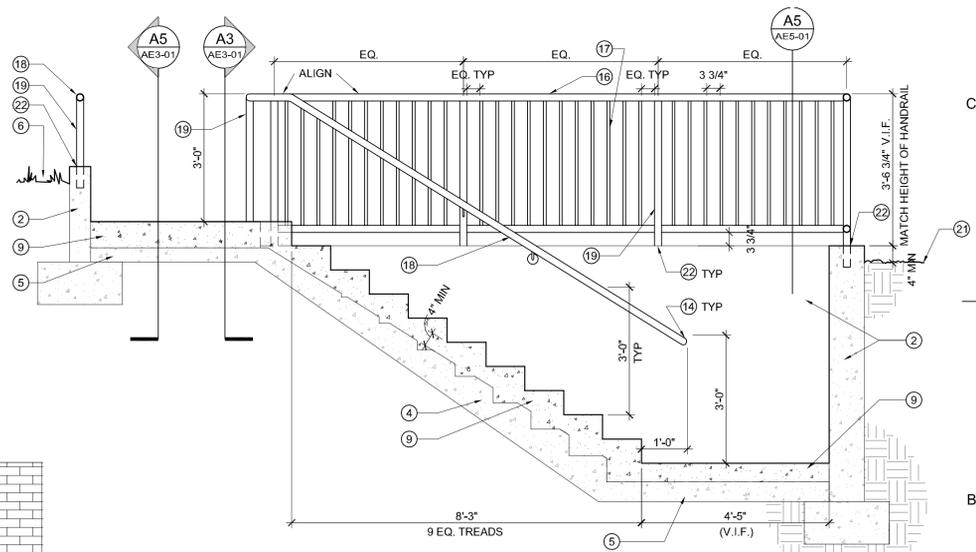
D1 SOUTH STAIRS SECTION
AE3-01 SCALE: 1/2"=1'-0"



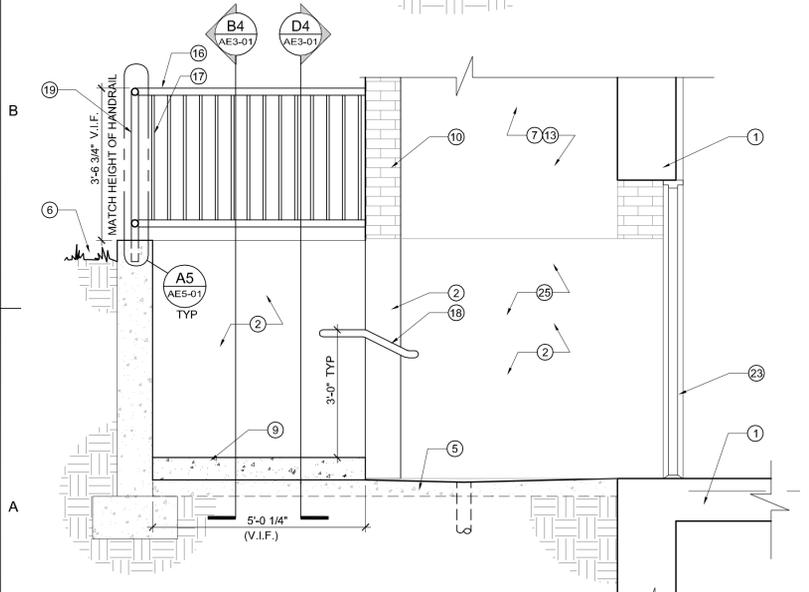
D4 SOUTH STAIRS ELEVATION/SECTION
AE3-01 SCALE: 1/2"=1'-0"



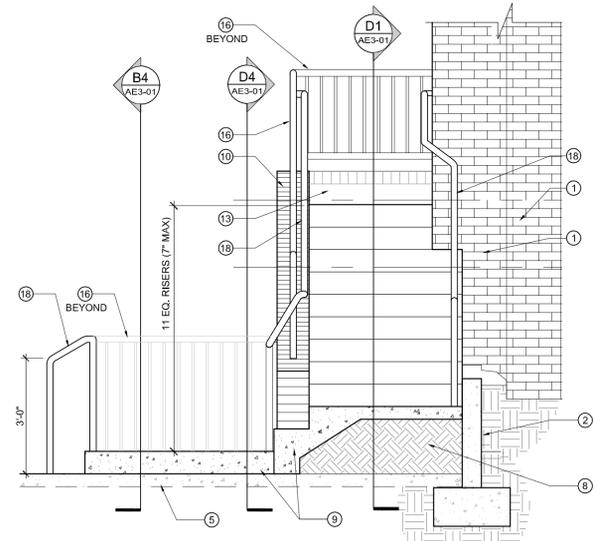
C2 SOUTH STAIRS SECTION
AE3-01 SCALE: 1/2"=1'-0"



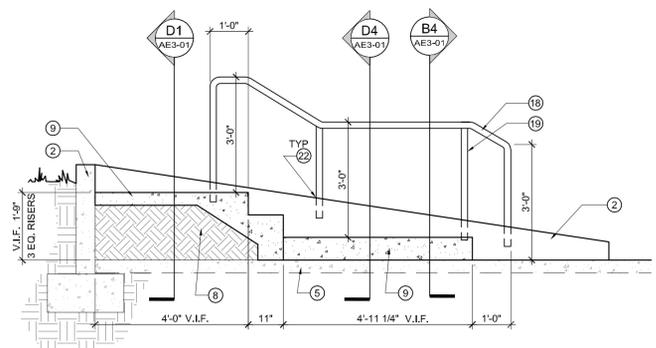
B4 SOUTH STAIRS SECTION
AE3-01 SCALE: 1/2"=1'-0"



A1 SOUTH STAIRS SECTION
AE3-01 SCALE: 1/2"=1'-0"



A3 SOUTH STAIRS ELEVATION/SECTION
AE3-01 SCALE: 1/2"=1'-0"



A5 SOUTH STAIRS SECTION
AE3-01 SCALE: 1/2"=1'-0"

- REFERENCE NOTES**
- EXISTING BUILDING WALL, BUTTRESS, ETC.
 - EXISTING RETAINING WALL.
 - EXISTING BUTTRESS FOUNDATION BEYOND.
 - EXISTING CONCRETE STAIRS OR LANDING: MODIFY AS SHOWN.
 - EXISTING SIDEWALK OR LANDING.
 - EXISTING GRADE.
 - REINFORCED CONCRETE WALL ON EXISTING FOUNDATION / RETAINING WALL RE: STRUCTURAL.
 - COMPACTED FILL.
 - CONCRETE STAIRS OR LANDING OVER EXISTING STAIRS RE: STRUCTURAL.
 - REINSTALLED SALVAGED BRICK VENEER OVER NEW CONCRETE WALL. MATCH EXISTING APPEARANCE.
 - EDGE OF NEW CONCRETE WALL BEHIND BRICK VENEER. MATCH EXISTING OPENING.
 - PROFILE OF STAIRS BEHIND WALL.
 - EXPOSED NEW CONCRETE WALL.
 - NOT USED.
 - FINISHED EIFS CEILING - MATCH EXISTING CEILING HEIGHT OR LOWER SLIGHTLY - COORDINATE WITH ARCHITECT.
 - GUARDRAIL 1-1/2" Ø PIPE, WELDED (GRIND SMOOTH), GALV. AND PAINTED.
 - GUARDRAIL BALUSTERS 1" Ø PIPE, WELDED (GRIND SMOOTH), GALV. AND PAINTED.
 - HANDRAIL 1-1/2" Ø PIPE, SMOOTH RADIUS BENDS, GRIND ANY WELDS SMOOTH.
 - HANDRAIL POST, 1-1/2" Ø PIPE, FRIND ANY WELDS SMOOTH.
 - NOT USED.
 - LOWERED GRADE (6 ± INCHES); WEED BLOCK FABRIC AND GRAVEL.
 - CORE DRILL AND GROUT (NON-SHRINK) INTO PLACE, EMBED 6" DEEP MIN.
 - REPAIR FOUNDATION PARGING TO MATCH - ALL LOCATIONS NOT SHOWN.

STAMP

STATE OF UTAH
ROBERT D. HANSEN
#1142
LICENSED ARCHITECT
7/22/10

SOUTH STAIRS SECTIONS AND ELEVATIONS
SCALE: AS SHOWN

PERMIT SET

WHITE MEMORIAL CHAPEL EXTERIOR REPAIRS
DFCM PROJECT NO. 082353050
APPROX. 160 EAST 300 NORTH, SALT LAKE CITY, UT

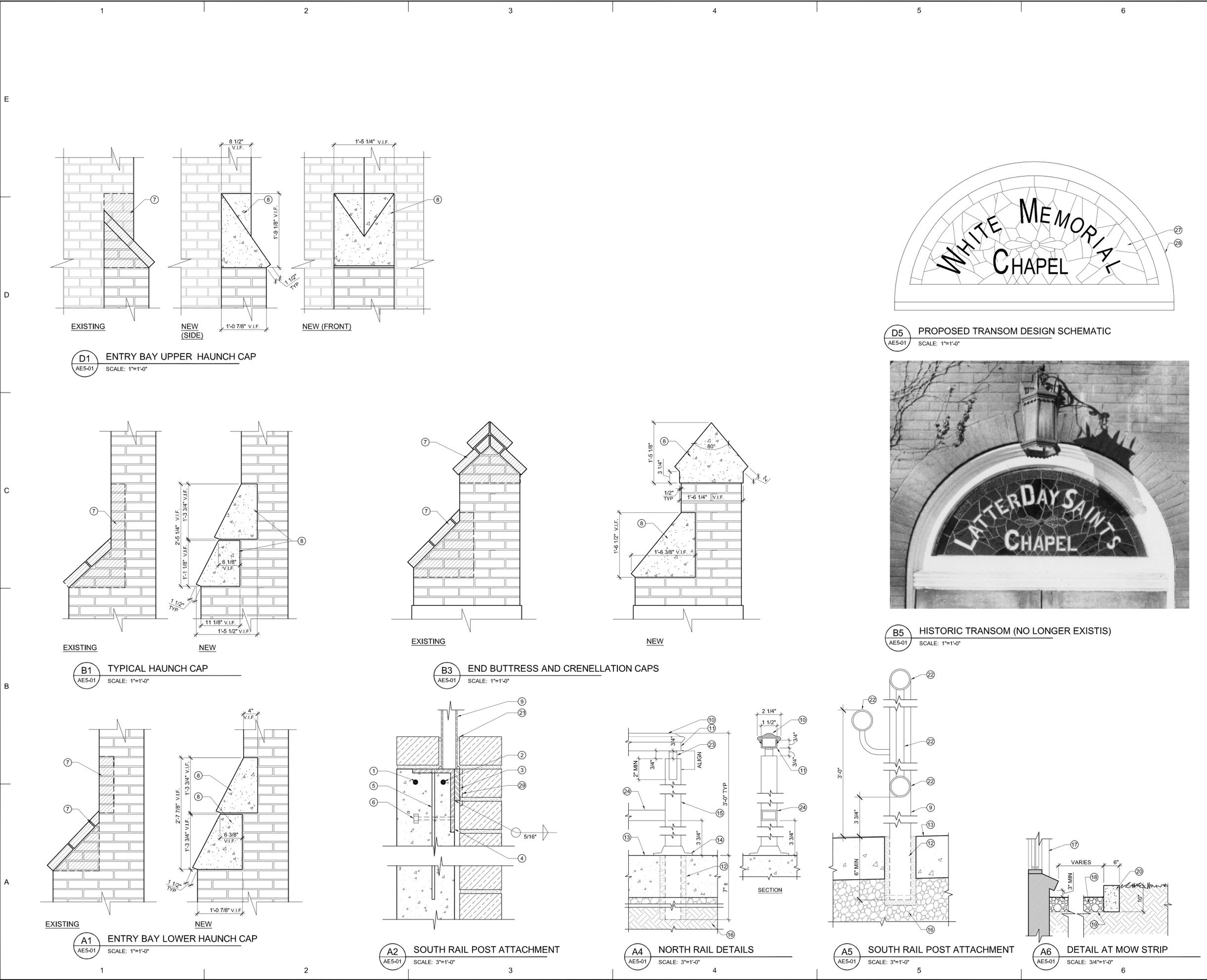
357 West Proport Avenue Salt Lake City, Utah 84101
Telephone 801-364-5161 Facsimile 801-364-5167

MJSA
ARCHITECTURE INTERIOR DESIGN

THESE DRAWINGS ARE INSTRUMENTS OF SERVICE AND SHALL REMAIN THE PROPERTY OF THE ARCHITECT. NO USE OR RE-USE OF THESE DOCUMENTS SHALL BE PERMITTED UNLESS AUTHORIZED IN WRITING BY MJSA ARCHITECTS WITH APPROPRIATE COMPENSATION.

PROJECT NO.: 10010
DATE: 7/22/10
SHEET: AE3-01

8/10/10 - White Memorial Chapel CAD/3D_CAD/5/5/10.dwg - Wed, 28 Jul 2010 10:44am
 357 West Proport Avenue Salt Lake City, Utah 84101 Telephone 801-364-5161 Facsimile 801-364-5167 MJSA ARCHITECTURE INTERIOR DESIGN



- REFERENCE NOTES**
1. WALL REINF. RE: STRUCTURAL.
 2. #4 CONT.
 3. 3" X 3" X 1/2" PLATE CENTERED FOR GUARDRAIL ATTACHMENT.
 4. L 4" X 6" X 3/8" X 8" LONG.
 5. (2) 2-1/2" X 24" DEFORMED BAR ANCHORS.
 6. (2) 2-1/2" X 4" HEADED STUD ANCHORS.
 7. REMOVE EXISTING BRICK AS INDICATED BY SHADED AREA, V.I.F. FULLY REPAIR ADJACENT MASONRY - INCLUDING REPOINTING TO MATCH - AS NEEDED.
 8. CAST STONE CAP AS SHOWN (PROFILES AND LENGTHS VARY). FIELD VERIFY FABRICATION DIMENSIONS FOR FULL - COURSE/FULL BRICK REPLACEMENT AS SHOWN. MAINTAIN MATCHING MORTAR JOINTS. INSTALL WEPOXY - SET STAINLESS PINS/ANCHORS/STRAPS PER CODE AND BEST MASONRY PRACTICES.
 9. GUARDRAIL - 1 1/2" Ø STEEL PIPE - GALV. AND PAINTED. GRIND SMOOTH ALL WELDS.
 10. ORNAMENTAL BRONZE HANDRAIL CAP, JULIUS BLUM #4530.
 11. ORNAMENTAL BRONZE HANDRAIL CHANNEL 3/4" X 1 1/2".
 12. CORE DRILL AND GROUT (NON-SHRINK) INTO PLACE.
 13. CONCRETE LANDING/RAMP. 6" THICK U.N.O.
 14. BRONZE 3-3/4" X 3-3/4" ESCUTCHEON R & WAGNER 8047 NH OR SIM.
 15. BRONZE 1-1/2" X 1-1/2" SQUARE HANDRAIL POST. O.C. MAX. U.N.O.
 16. MATERIAL VARIES.
 17. EXIST. BUILDING WALL AND WINDOW.
 18. GRAVEL FILL CRUSHED GRANITE, APPROX. 1-1/2"Ø, 4" MIN. DEPTH, SUBMIT TO ARCHITECT FOR APPROVAL.
 19. CONT. WEED BARRIER, DE-WHITT PRO-5 OR SIM.
 20. CONT. REINF. CONCRETE CURB/MOW STRIP.
 21. SANDED SEALANT TO MATCH MORTAR AND BACKER ROD.
 22. BALUSTERS - 1/2" STEEL PIPE GALV. AND PAINTED. GRIND SMOOTH ALL WELDS.
 23. BRONZE CENTER POST BRACKET.
 24. 1 X 1 1/2" BRONZE TUBE AT RAMP ONLY.
 25. SAME PROFILE FOR BOTH CRENNELLATION CAPS (SLOT AND PROJECTIONS). LENGTHS VARY.
 26. SANDED SEALANT JOINT TO MATCH MORTAR JOINT.
 27. RE-CREATE / RE-INTERPRET HISTORIC ART GLASS TRANSOM FOLLOWING HISTORIC PHOTO (DIGITAL COPY AVAILABLE FROM ARCHITECT). ARCHITECT AND OWNER TO APPROVE PROPOSED DESIGN AND COLORS.
 28. REUSE OR REPLACE EXISTING TRANSOM FRAME AS APPROPRIATE. INSTALL WITH PROFILED BRICK MOLD, ETC. SIM. TO HISTORIC.
 29. NOTCH BACK OF BRICK AS NEEDED FOR CLEARANCE.

STAMP

STATE OF UTAH
 ROBERT D. JONES
 #1142
 LICENSED ARCHITECT
 7/22/10

MISCELLANEOUS DETAILS
 SCALE: AS SHOWN

PROJECT NO.: 10010
 DATE: 7/22/10
 SHEET: AE5-01

PERMIT SET
 WHITE MEMORIAL CHAPEL EXTERIOR REPAIRS
 DFCM PROJECT NO. 082353050
 APPROX. 160 EAST 300 NORTH, SALT LAKE CITY, UT

MJSA

REFERENCE NOTES

REAVELEY
ENGINEERS + ASSOCIATES
Consulting Structural Engineers

PROJECT NO.: 10010
DATE: 7/22/10
SHEET: SE0-01

SOUTH STAIRS
GENERAL STRUCTURAL NOTES
SCALE: AS SHOWN

ABBREVIATIONS			
AB	ANCHOR BOLT(S)	F.D.	FLOOR DRAIN
ABV	ABOVE	FDN	FOUNDATION
ACI	AMERICAN CONCRETE INSTITUTE	F.F.	FINISH FLOOR
AT	AT	FIN	FINISH
ALT	ALTERNATE	FL	FINISH
APPROX	APPROXIMATE	FT	FOOT
ASTM	AMERICAN SOCIETY FOR TESTING MATERIALS	FTG	FOOTING
AWS	AMERICAN WELDING SOCIETY	FV	FIELD VERIFY
BM	BEAM	GA	GAUGE
BLW	BELOW	GALV	GALVANIZED
BLDG	BUILDING	GLB	GLUE LAMINATED BEAM
BOT	BOTTOM	GR	GRADE
BRG	BEARING	GSN	GENERAL STRUCTURAL NOTES
BTWN	BETWEEN	HB	HORIZONTAL BRIDGING
		HT	HEIGHT
		HORIZ	HORIZONTAL
		HSA	HEADED STUD ANCHOR
C.J.	CONSTRUCTION JOINT OR CONTROL JOINT	IBC	INTERNATIONAL BUILDING CODE
CJP	COMPLETE JOINT PENETRATION	ICBO	INTERNATION CONFERENCE OF BUILDING OFFICIALS
CMU	CONCRETE MASONRY UNIT	ICC	INTERNATION CODE COUNCIL
COL	COLUMN	IN	INCH
CONC	CONCRETE	INSUL	INSULATION
CONST	CONSTRUCTION	INT	INTERIOR
CONT	CONTINUOUS	I.F.	INSIDE FACE
CONTR	CONTRACTOR	JT	JOINT
CTR	CENTER	JST	JOIST
DB	DECK BEARING	KLF	KIPS PER LINEAR FOOT
DBA	DEFORMED BAR ANCHOR	KSF	KIPS PER SQUARE FOOT
DBL	DOUBLE	KSI	KIPS PER SQUARE INCH
DET	DETAIL	K	KIPS - 1000 POUNDS
DIA (Ø)	DIAMETER	LF	LINEAL FOOT
DIM	DIMENSION	LBS	POUNDS
DN	DOWN	LLH	LONG LEG HORIZONTAL
DWG	DRAWING	LLV	LONG LEG VERTICAL
DWL	DOWEL	MAS	MASONRY
EA	EACH	MAX	MAXIMUM
E.J.	EXPANSION JOINT (SEISMIC SEPARATION JOINT)	MCJ	MASONRY C.J.
ELEC	ELECTRICAL	MECH	MECHANICAL
ELEV	ELEVATION	MFR	MANUFACTURER
EQUIP	EQUIPMENT	MIN	MINIMUM
EQ	EQUAL	MISC	MISCELLANEOUS
EXIST	EXISTING	MPH	MILES PER HOUR
EXP	EXPANSION / EXPOSED	NIC	NOT IN CONTRACT
EXT	EXTERIOR	NTS	NOT TO SCALE
E.F.	EACH FACE		
E.W.	EACH WAY		
OPNG	OPENING		
OPP	OPPOSITE		
O.C.	ON CENTER		
O.F.	OUTSIDE FACE		
OWSJ	OPEN WEB STEEL JOIST		
PCF	POUNDS/CUBIC FOOT		
PL	PLATE		
PLF	POUNDS/LINEAR FOOT		
PNL	PANEL		
PSF	POUNDS/SQUARE FOOT		
PSI	POUNDS/SQUARE INCH		
PT	POINT		
P.T.	POST TENSION		
QAA	QUALITY ASSURANCE AGENCY		
QAIP	QUALITY ASSURANCE IMPLEMENTATION PLAN		
REINF	REINFORCING		
RD	ROOF DRAIN		
REQ'D	REQUIRED		
SHT	SHEET		
S.I.	SPECIAL INSPECTION		
SDI	STEEL DECK INSTITUTE		
SJI	STEEL JOIST INSTITUTE		
SOG	SLAB ON GRADE		
STD	STANDARD		
STIFF	STIFFENER		
STL	STEEL		
SQ	SQUARE		
SIM	SIMILAR		
STR	STRUCTURAL		
STAG	STAGGERED		
T&B	TOP AND BOTTOM		
TEMP	TEMPERATURE		
THDS	THREADS		
THRU	THROUGH		
T.O.	TOP OF		
TOC	TOP OF CONCRETE		
TOF	TOP OF FOOTING		
TOS	TOP OF SLAB		
TOW	TOP OF WALL		
TYP	TYPICAL		
UNO	UNLESS NOTED OTHERWISE		
VERT	VERTICAL		
W/	WITH		
WWF	WELDED WIRE FABRIC		

III. Special Instructions

- A. The structural drawings shall be used as the prime construction documents. Primary structural elements and overall structural layout are indicated within the structural plans and details. Some secondary elements, alcoves, elevations, slopes, depressions, curbs, mechanical equipment and electrical equipment, are not indicated within the structural drawings.
- B. Shoring and Bracing Requirements:
 1. Floor and Roof Structures -- The General Contractor is responsible for the method and sequence of all structural erection. He shall provide temporary shoring and bracing as his method of erection requires to provide adequate vertical and lateral support. Shoring and bracing shall remain in place as the chosen method requires until all permanent members are in place and all final connections are completed, including all roof and floor attachments. The building shall not be considered stable until all connections are complete.
 2. Walls above grade shall be braced until the structural system is complete. Walls shall not be considered to be self supporting.
- C. Submittals: A copy of all shop drawings that have been submitted for review must be kept at the construction site for reference. These drawings must bear the appropriate review stamps. The shop drawing review shall not relieve the contractor of the responsibility of completing the project according to the contract documents. The general contractor shall review and mark all shop drawings prior to submitting them to the Architect for his review. Shop Drawings made from reproductions of (these) contract drawings will be rejected.
- D. Project Coordination: It shall be the responsibility of the general contractor to coordinate with all trades any and all items that are to be integrated into the structural system. Openings or penetrations through, or attachments to the structural system that are not indicated on these drawings shall be the responsibility of the general contractor and shall be coordinated with the Architect/Engineers. The order of construction is the responsibility of the general contractor. It is the contractor's obligation to provide all items necessary for his chosen procedure.
- E. Contractor shall field verify all dimensions, and conditions. If the contract drawings do not represent actual conditions, contractor shall notify architect/engineer prior to fabrication or construction within that area.
- F. Notice of Copyright: The structural drawings, plans, schedules, notes and details are hereby copyrighted by Reaveley Engineers and Associates, Inc., All Rights reserved. Submission or distribution of documents to meet official regulatory requirements or for similar purposes in connection with the project is not to be construed as publication in derogation of Reaveley Engineers & Associates, Inc.'s reserved rights. The documents defining the structure are instruments of service prepared by Reaveley Engineers and Associates, Inc. for one use only. Furthermore, these documents shall not be reproduced, or copied, in whole or in part by the contractor or his subcontractors for preparation of shop drawings or other submittals.

IV. Quality Assurance

- A. Quality Assurance Agency Requirements:
 1. The owner shall engage a qualified Quality Assurance Agency (QAA) to provide all special inspection and quality assurance testing for the project. All quality assurance personnel assigned to the project shall demonstrate competence, to the satisfaction of the building official, for inspection of the particular type of construction or operation requiring special inspection.
 2. Prior to construction, the QAA shall prepare a written Quality Assurance Implementation Plan (QAIP) for the project. The QAIP shall include a list of personnel assigned to the project including management personnel, inspection procedures and frequency, proposed testing methods and frequency of testing, and reporting procedures. The QAIP shall also outline methods of documenting deficiencies and reporting corrections. A copy of the QAIP shall be given to the contractor for review and coordination with subcontractors.
 3. Prior to construction, the QAA shall submit the following information to the Engineer of Record for approval:
 - a. A copy of the Quality Assurance Implementation Plan for the project.
 - b. A copy of the appropriate certification and training records for each individual performing inspections or testing.
 - c. A list of the testing equipment designated for the project and recent calibration records for the equipment.
 - d. Sample inspection and testing reports and the distribution list for the reports.
 4. The special inspector shall inspect the work per Chapter 17 of the IBC for conformance with the contract documents. The special inspector shall send reports to the owner, building official, architect, engineer, and contractor. All discrepancies shall be brought to the immediate attention of the contractor for correction. The QAA shall submit a final signed report stating that the special inspection work was, to the best of their knowledge, in conformance with the plans, specifications and applicable workmanship provisions of the IBC.
- B. Special Inspection: Special Inspection shall be provided for the following elements per IBC sections 1704 and 1707:
 1. Concrete and elements embedded in concrete shall be special inspected prior to and during placement of concrete. Special inspection of concrete shall include the following:
 - a. Reinforcing steel size and placement.
 - b. Concrete shall receive continuous special inspection during placement, and periodic inspection after placement to ensure proper curing and weather protection procedures.
 2. Post-installed anchors, including but not limited to expansion anchors, adhesive anchors and rebar dowels, and low velocity fasteners, shall receive special inspection per the code evaluation reports for the anchors.
 - a. Continuous special inspection is required during the installation of all adhesive anchors and rebar dowels. Special inspector shall verify the following:
 - (1) Anchor size and steel grade.
 - (2) Hole diameter, location, and type of drill bit.
 - (3) Cleanliness of hole and anchor.
 - (4) Adhesive application.
 - (5) Anchor embedment.
- C. Structural Testing: The following materials shall be tested per IBC sections 1704 and 1708. The owner reserves the right to test any and all materials using any appropriate non-destructive procedure. Any items found to be deficient shall be corrected and retested at no additional cost to the owner.
 1. Concrete Strength Verification and Testing: All concrete shall be tested to verify strength, slump, unit weight, air content, and temperature. See the specifications for testing criteria, testing frequency and acceptability criteria.
 2. Post-installed anchors, including but not limited to expansion anchors, adhesive anchors, and low velocity fasteners, shall be tested per the code evaluation reports for the anchors.
- D. Structural Observations by the Engineer of Record.
 1. The Engineer of Record may perform structural observations at critical phases of the project. Copies of the engineer's report will be distributed to the architect, contractor, owner, and QAA.
 2. Observation visits to the site by the Engineer's field representatives shall not be construed as inspection or approval of construction.
 3. Notification of Engineer: The contractor shall notify the engineer twenty-four hours prior to:
 - a. Closing any wall forms.
- E. Contractor Responsibility: The contractor shall prepare and submit a written statement of responsibility to the building official and the owner prior to commencement of work on the project. As a minimum the statement shall contain the following information:
 1. Acknowledgement of the quality assurance requirements for the structure.
 2. Acknowledgement of receipt of the Quality Assurance Implementation Plan (QAIP) from the testing agency.
 3. Acknowledgement that control will be exercised to obtain conformance to the Contract Documents and the QAIP.
 4. Quality control procedures within the contractors organization, methods and frequency of reporting, and distribution of the reports.
 5. Identification and qualifications of the person(s) responsible for quality control and their position(s) in the organization.

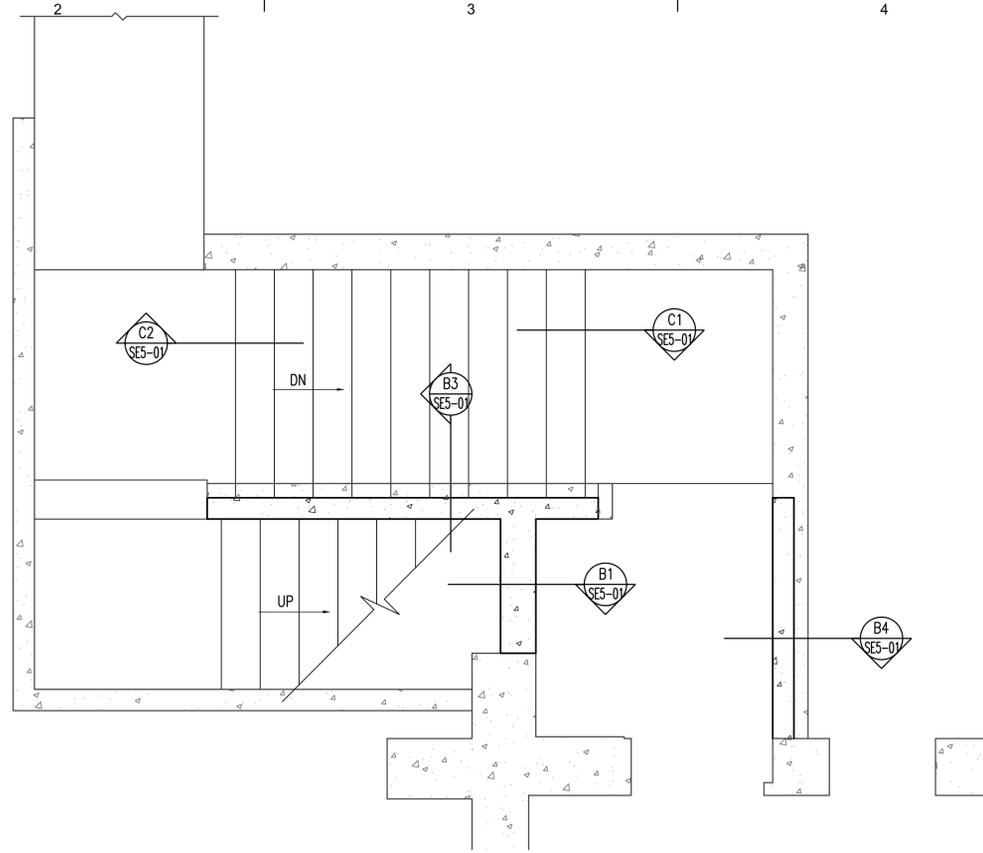
I. Design Criteria

- A. Governing Building Code: 2009 International Building Code (IBC)
- B. Live Loading:
 1. Live Load: 100 psf
- C. Earthquake:
 1. Occupancy Category: II
 2. Seismic Design Category: D
 3. Spectral Response Accelerations:
 - S_s = 1.706 g S_{ps} = 1.137 g
 - S₁ = 0.689 g S_{p1} = 0.692 g
 4. Soil Site Class: D
 5. Importance Factor, I_e: 1.0
- D. Wind:
 1. Basic Wind Speed (3-second gust): 90 mph
 2. Importance Factor, I_w: 1.0
 3. Exposure: D
 4. Internal Pressure Coefficient, GC_{pi}: 0.55
 5. Topographic Factor, K_{zt}: 1.0

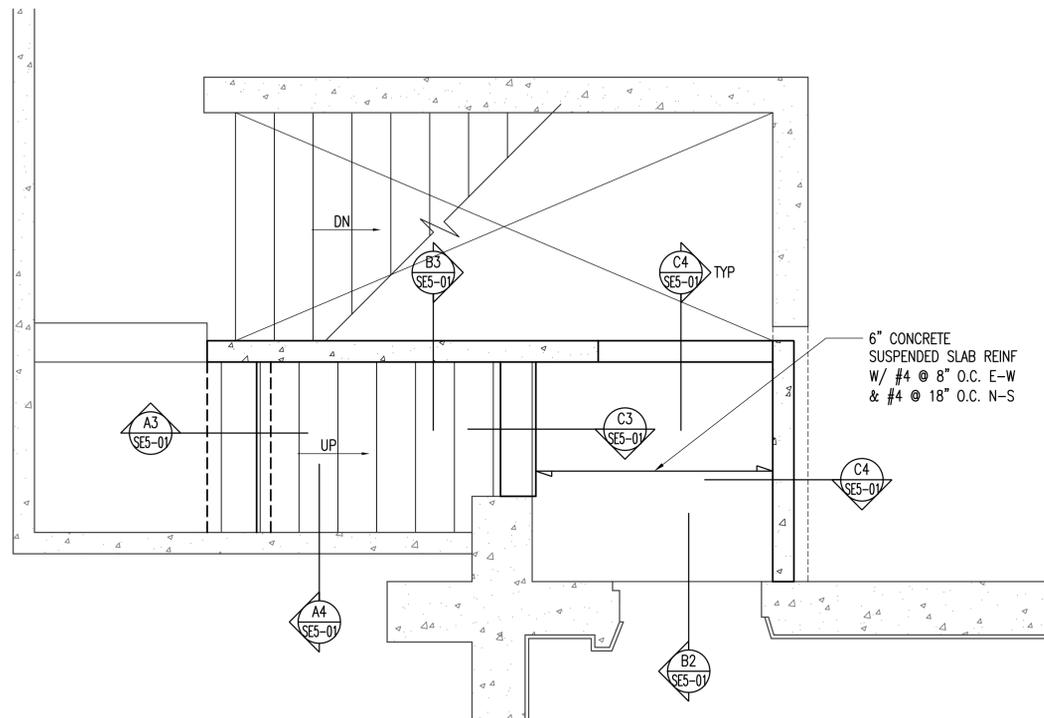
II. Concrete

- A. Materials shall comply with the Standards specified in American Concrete Institute (ACI) 318-05, "Building Code Requirements for Structural Concrete."
 1. Compressive strengths of concrete at 28 days shall be as follows:
 - a. Walls & Footings: 4000 psi
 - b. All other Site Cast Concrete: 4000 psi
 2. Concrete Density (Maximum Air Dry Weight):
 - a. Normal weight concrete shall be approximately 145 to 155 pounds per cubic foot.
 3. Reinforcement steel:
 - a. ASTM A615 Grade 60, f_y = 60,000 psi min. epoxy coated unless noted otherwise.
 4. Cementitious Material: Use the following cementitious materials, of the same type, brand, and source, throughout Project:
 - a. Portland Cement: ASTM C 150, Type I/II. Supplement with the following:
 - (1) Fly Ash: ASTM C 618, Class F up to 20% max by weight.
 5. Normal-Weight Aggregates: ASTM C 33, Class 3S coarse aggregate or better, graded. Provide aggregates from a single source with documented service record data of at least 10 years' satisfactory service in similar applications and service conditions using similar aggregates and cementitious materials.
 - a. Maximum Coarse-Aggregate Size: 1.5 inch (25 mm) nominal
 - b. Fine Aggregate: Free of materials with deleterious reactivity to alkali in cement
 6. Admixtures:
 - a. Air-entraining admixtures, comply with ASTM C 260 (when used).
 - b. Calcium chloride shall not be added to the concrete mix.
 7. Only one grade or type of concrete shall be poured on the site at any given time.
 8. Plastic coated tie wires and chairs shall be used to support reinforcing bars, tie bars and tendons.
- B. Concrete Mixture for Building Walls: Proportion normal-weight concrete mixture as follows:
 1. Minimum Compressive Strength: 4000 psi (27.6 MPa) at 28 days
 2. Maximum Water-Cementitious Materials Ratio: 0.45
 3. Slump Limit: 4 inches (100 mm), plus or minus 1 inch (25 mm)
 4. Air Content: 6 percent, plus or minus 1 percent at point of delivery for 1.5-inch (25-mm) nominal maximum aggregate size.
- C. Formwork shall comply with ACI Standards Publication 347. The contractor shall be responsible for the design, detailing, care, placement and removal of the formwork and shores.
 1. Design, erect, shore, brace and maintain formwork, according to ACI 301, to support vertical, lateral, static, and dynamic loads, and construction loads that might be applied, until structure can support such loads.
 2. Construct formwork so concrete members and structures are of size, shape, alignment, elevation, and position indicated, within tolerance limits of ACI 117.
 3. Limit concrete surface irregularities, designated by ACI 347 as abrupt or gradual, as follows:
 - a. Class A, 1/8 inch (3.2 mm) for smooth-formed finished surfaces.
 4. Construct forms tight enough to prevent loss of concrete mortar.
 5. Fabricate forms for easy removal without hammering or prying against concrete surfaces. Provide crush or wrecking plates where stripping may damage cast concrete surfaces. Provide top forms for inclined surfaces steeper than 1.5 horizontal to 1 vertical.
 - a. Install keyways, reglets, recesses, and the like, for easy removal.
 - b. Do not use rust-stained steel form-facing material.
 6. Provide temporary openings for cleanouts and inspection ports where interior area of formwork is inaccessible. Close openings with panels tightly fitted to forms and securely braced to prevent loss of concrete mortar. Locate temporary openings in forms at inconspicuous locations.
 7. Form openings, chases, offsets, sinkages, keyways, reglets, blocking, screeds, and bulkheads required in the Work. Determine sizes and locations from trades providing such items.
 8. Clean forms and adjacent surfaces to receive concrete. Remove chips, wood, sawdust, dirt, and other debris just before placing concrete.
 9. Smooth-Formed Finish: As-cast concrete texture imparted by form-facing material, arranged in an orderly and symmetrical manner with a minimum of seams. Repair and patch tie holes and defects. Remove fins and other projections that exceed specified limits on formed-surface irregularities
 10. Retighten forms and bracing before placing concrete, as required, to prevent mortar leaks and maintain proper alignment.
 - a. Coat contact surfaces of forms with form-release agent, according to manufacturer's written instructions, before placing reinforcement
- D. Concrete cover requirements for deformed bar reinforcing steel shall comply with ACI 318, "Building Code Requirements for Structural Concrete".
 1. Cast-in-place Concrete:

Clear Cover	
a. Formed concrete exposed to weather:	
#5 and smaller bars	2"
- E. Detailing: All reinforcing, shall be detailed, bolstered & supported to comply with ACI 315, "Details and Detailing of Concrete Reinforcement" and the Concrete Reinforcing Steel Institute (CRSI) recommendations. Reinforcing bars shall not be welded unless specifically shown on drawings.
 1. Lap splice lengths shall be detailed to comply as shown in the contract documents contained within the contract drawings.
 2. All embedments and dowels shall be securely tied to formwork or to adjacent reinforcing prior to the placement of concrete.
 3. Use chairs or other support devices recommended by the CRSI to support and tie reinforcement bars prior to placing concrete
 4. Provide corner bars at intersecting wall corners using the same bar size and spacing as the horizontal wall reinforcing. Unless noted otherwise, corner bar lap lengths shall conform with reinforcing bar lap splice lengths as noted above.
 5. All vertical reinforcing shall be doweled to footings, or to the structure below. Dowels shall be the same size and at the same spacing as the vertical reinforcing scheduled (or detailed) for the element above. Lap splice lengths shall comply as noted above or as shown in the drawings.
 6. Horizontal wall reinforcing shall terminate at ends of walls and openings into the far end of the jamb column with a 90-degree standard ACI hook, unless shown otherwise. Lap horizontal bar splices as noted above or as shown in the drawings. Horizontal wall reinforcing shall be continuous through construction and control joints. Splices in horizontal reinforcement shall be staggered, so the splice laps will not overlap. Splices in two curtains where used shall not occur in the same location, splice laps shall not overlap.
 7. Contractor shall coordinate placement of all openings, curbs, dowels, sleeves, conduits, bolts, inserts and other embedded items prior to concrete placement.
 8. Column cross-ties shall have a 135 degree hook at one end and a 90 degree hook at the other. The hooks shall engage the vertical column reinforcement. The 135 degree hooks of consecutive cross-ties engaging the same vertical bars shall engage alternate vertical bars
 9. All reinforcement shall be bent cold, and shall be bent only once at the same location. All reinforcement shall be shop bent, unless otherwise permitted by the engineer.
- F. No aluminum conduit or product containing aluminum or any other material injurious to concrete shall be embedded in concrete.



C2
SE1-01 **STAIR FOOTING & FOUNDATION PLAN**
SCALE: 1/2"=1'-0"



A2
SE1-01 **STAIR FRAMING PLAN**
SCALE: 1/2"=1'-0"



REFERENCE NOTES

FOOTING & FOUNDATION & FRAMING PLAN LEGEND

- FOOTING - CONTINUOUS
- CONCRETE WALL, CONCRETE FOUNDATION WALL, OR CONCRETE RETAINING WALL
- CONCRETE FOUNDATION WALL - RECESSED
- OPENING

FOOTING & FOUNDATION & FRAMING PLAN NOTES

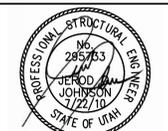
1. SEE ARCHITECTURAL DRAWINGS FOR EXTERIOR CONCRETE WORK AT DOORS, SIDEWALKS ETC.
2. SEE ARCHITECTURAL DRAWINGS AND FINISH SCHEDULE FOR SLAB AREAS TO RECEIVE FLOOR TILE.
3. SEE ARCHITECTURAL DRAWINGS FOR SLAB DEPRESSIONS AND SLOPES TO DRAINS, ETC.
4. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL EXTERIOR CONCRETE RETAINING AND / OR SITE WALLS NOT SHOWN ON THE STRUCTURAL DRAWINGS.
5. SEE A2/SE5-01 FOR TYPICAL REINFORCEMENT AT WALL CORNERS AND INTERSECTIONS.

EXISTING ITEMS PLAN LEGEND

- EXISTING CONCRETE SHEAR WALL, FOUNDATION WALL OR RETAINING WALL
- EXISTING OPENING THROUGH CONCRETE WALL
- EXISTING CONCRETE PIER IN CONCRETE WALL, PIER RECESSED 8" BELOW SLAB. TYP U.N.O.
- EXISTING CONCRETE COLUMN

REAVELEY
ENGINEERS + ASSOCIATES
Consulting Structural Engineers

STAMP



SOUTH STAIRS
STRUCTURAL FRAMING PLANS
SCALE: AS SHOWN

PERMIT SET

WHITE MEMORIAL CHAPEL EXTERIOR REPAIRS
DFCM PROJECT NO. 082353050
APPROX. 160 EAST 300 NORTH, SALT LAKE CITY, UT

357 West Pleasant Avenue Salt Lake City, Utah 84101
Telephone 801-384-5161 Facsimile 801-384-5167

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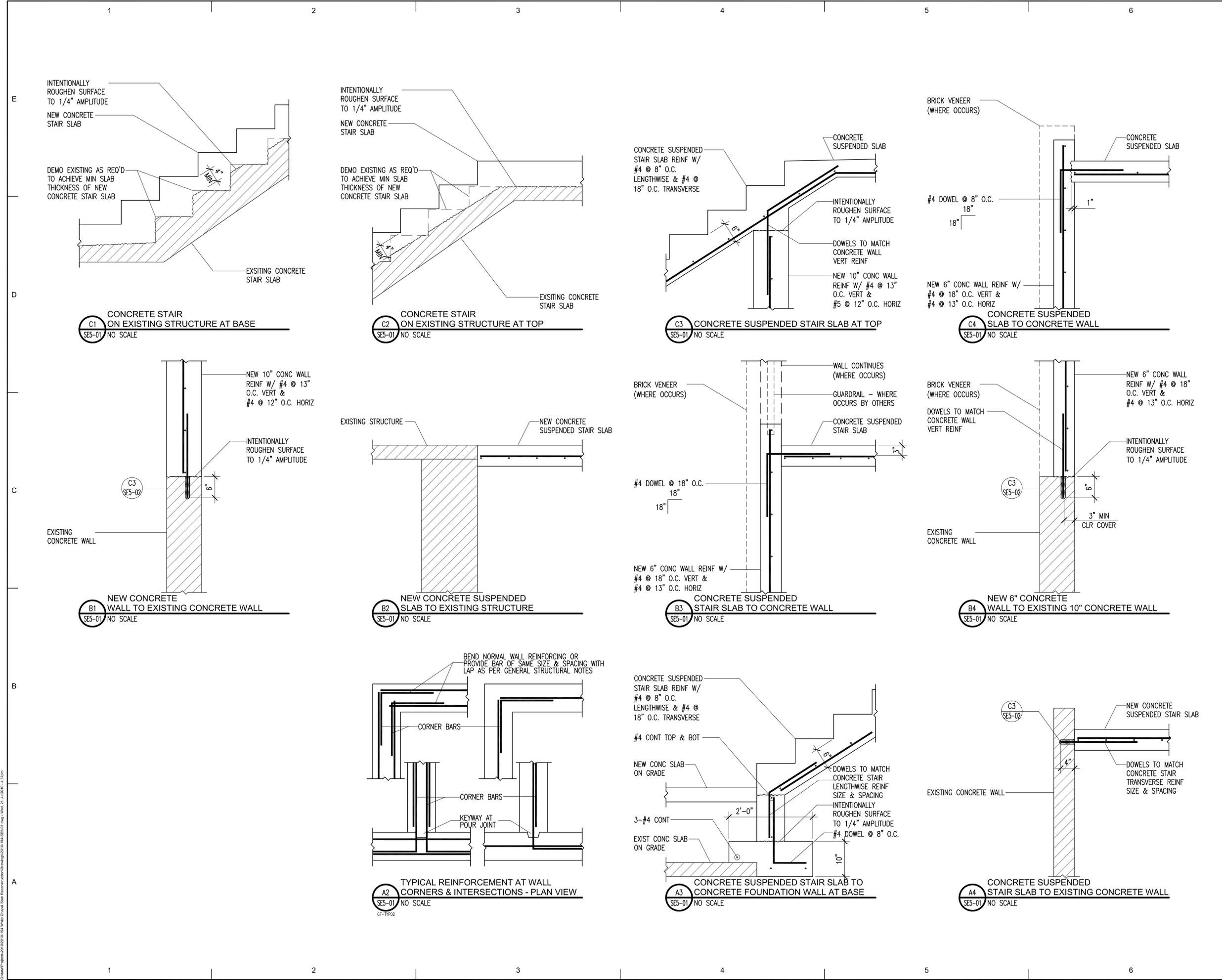
10010

DATE:

7/22/10

SHEET:

SE1-01



REFERENCE NOTES

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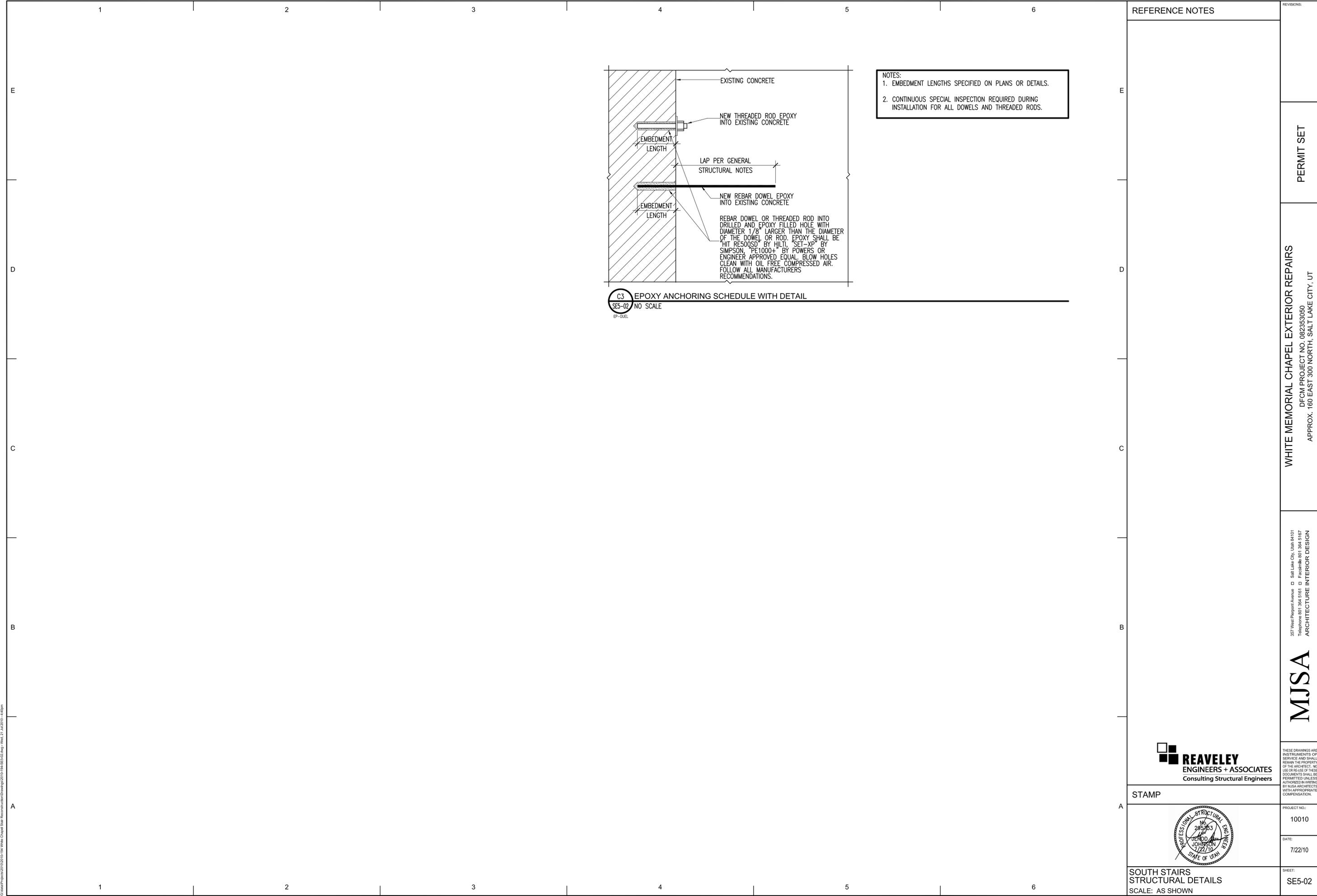
REAVELEY
 ENGINEERS + ASSOCIATES
 Consulting Structural Engineers

STAMP

PROFESSIONAL STRUCTURAL ENGINEER
 NO. 285763
 JEROD L. JOHNSON
 7/22/10
 STATE OF UTAH

PROJECT NO.: 10010
 DATE: 7/22/10
 SHEET: SE5-01

SOUTH STAIRS
 STRUCTURAL DETAILS
 SCALE: AS SHOWN



NOTES:
 1. EMBEDMENT LENGTHS SPECIFIED ON PLANS OR DETAILS.
 2. CONTINUOUS SPECIAL INSPECTION REQUIRED DURING INSTALLATION FOR ALL DOWELS AND THREADED RODS.

C3 EPOXY ANCHORING SCHEDULE WITH DETAIL
 SES-02 NO SCALE
 EP-DUEL

REFERENCE NOTES

REVISIONS:

PERMIT SET

WHITE MEMORIAL CHAPEL EXTERIOR REPAIRS
 DFCM PROJECT NO. 082353050
 APPROX. 160 EAST 300 NORTH, SALT LAKE CITY, UT

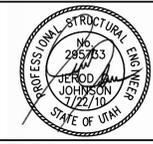
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 ENGINEERS + ASSOCIATES
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PROJECT NO.:

10010

DATE:

7/22/10

SOUTH STAIRS
 STRUCTURAL DETAILS
 SCALE: AS SHOWN

SHEET:
 SE5-02

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