

# UTAH NATIONAL GUARD

## RTI CLASSROOMS

### NEW MODULAR CLASSROOMS

### DRAPER, UTAH

### JUNE 2006



State of Utah - Department of Administrative Services

#### DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT

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

ajc PROJECT NO. 0547

#### CAMP WILLIAMS

DRAWING PHASE:  
**CONSTRUCTION DOCUMENTS**  
**UNITS 9,10,11,12**  
DFCM PROJECT # 05236480

PREPARED BY:



703 east 1700 south salt lake city, utah 84105  
telephone: 801-466-8818 fax: 801-466-4411  
email: ajc@ajcarchitects.com

CONSTRUCTION DOCUMENT SUBMITTAL  
APPROVALS: REVIEW SET

Prime Agency _____	Date _____
DFCM _____	Date _____

APPROVAL DOES NOT RELIEVE A/E OF DESIGN LIABILITY

#### DRAWING INDEX:

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ARCHITECT PROJECT #0547



703 east 1700 south  
salt lake city, utah 84105  
ph: 801.466.8818  
fx: 801.466.4411  
ajc@ajcarchitects.com

CONSULTANT Thomas & Kolkman  
**ELECTRICAL** Engineering Co. Inc.  
64 West 1700 South  
Salt Lake City, Utah 84115  
PH#: (801) 484-8161  
FAX: (801) 484-3538  
CONTACT: Ray Kolkman

**CIVIL** Stattec  
Consulting  
3995 South 700 East Suite 300  
Salt Lake City Utah, 84107  
PH#: (801) 261-0090  
FAX: (801) 266-1671  
CONTACT: Ken Engstrom

PROJECT DESCRIPTION

**State of Utah**  
Department of Administrative Services

**DFCM** Division of Facilities  
Construction & Management  
4110 State Office Building  
Salt Lake City, Utah 84114  
Phone: (801) 538 - 3018  
Fax: (801) 538 - 3267

Internet: <http://www.dfcu.utah.gov>

R.T.I CLASSROOMS  
9,10,11,12  
CAMP WILLIAMS  
DRAPER, UTAH

SHEET NAME:

COVER SHEET

REVISIONS  
MARK DATE DESCRIPTION

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SHEET 1 OF 13



703 east 1700 south  
salt lake city, utah 84105  
ph: 801.466.8818  
fx: 801.466.4411  
ajc@ajcarchitects.com



CONSULTANT Thomas & Kolkman  
**ELECTRICAL Engineering Co., Inc.**  
64 West 1700 South  
Salt Lake City, Utah 84115  
PH#: (801) 484-8161  
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3995 South 700 East Suite 300  
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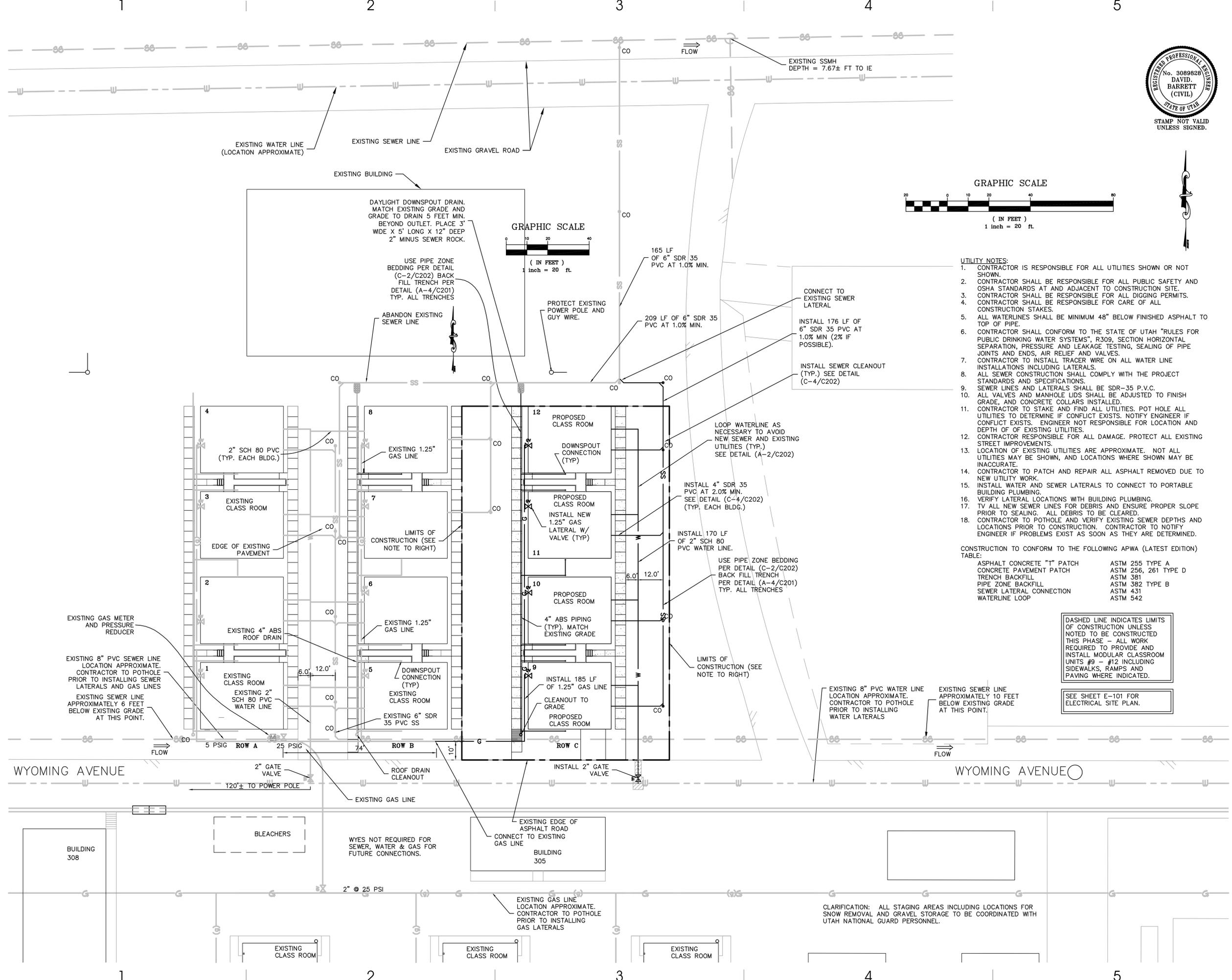
SHEET NAME:  
**UTILITY PLAN**

REVISIONS

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**C101**  
SHEET 2 OF 12



- UTILITY NOTES:**
- CONTRACTOR IS RESPONSIBLE FOR ALL UTILITIES SHOWN OR NOT SHOWN.
  - CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PUBLIC SAFETY AND OSHA STANDARDS AT AND ADJACENT TO CONSTRUCTION SITE.
  - CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DIGGING PERMITS.
  - CONTRACTOR SHALL BE RESPONSIBLE FOR CARE OF ALL CONSTRUCTION STAKES.
  - ALL WATERLINES SHALL BE MINIMUM 48" BELOW FINISHED ASPHALT TO TOP OF PIPE.
  - CONTRACTOR SHALL CONFORM TO THE STATE OF UTAH "RULES FOR PUBLIC DRINKING WATER SYSTEMS", R309, SECTION HORIZONTAL SEPARATION, PRESSURE AND LEAKAGE TESTING, SEALING OF PIPE JOINTS AND ENDS, AIR RELIEF AND VALVES.
  - CONTRACTOR TO INSTALL TRACER WIRE ON ALL WATER LINE INSTALLATIONS INCLUDING LATERALS.
  - ALL SEWER CONSTRUCTION SHALL COMPLY WITH THE PROJECT STANDARDS AND SPECIFICATIONS.
  - SEWER LINES AND LATERALS SHALL BE SDR-35 P.V.C.
  - ALL VALVES AND MANHOLE LIDS SHALL BE ADJUSTED TO FINISH GRADE, AND CONCRETE COLLARS INSTALLED.
  - CONTRACTOR TO STAKE AND FIND ALL UTILITIES. POT HOLE ALL UTILITIES TO DETERMINE IF CONFLICT EXISTS. NOTIFY ENGINEER IF CONFLICT EXISTS. ENGINEER NOT RESPONSIBLE FOR LOCATION AND DEPTH OF OF EXISTING UTILITIES.
  - CONTRACTOR RESPONSIBLE FOR ALL DAMAGE. PROTECT ALL EXISTING STREET IMPROVEMENTS.
  - LOCATION OF EXISTING UTILITIES ARE APPROXIMATE. NOT ALL UTILITIES MAY BE SHOWN, AND LOCATIONS WHERE SHOWN MAY BE INACCURATE.
  - CONTRACTOR TO PATCH AND REPAIR ALL ASPHALT REMOVED DUE TO NEW UTILITY WORK.
  - INSTALL WATER AND SEWER LATERALS TO CONNECT TO PORTABLE BUILDING PLUMBING.
  - VERIFY LATERAL LOCATIONS WITH BUILDING PLUMBING.
  - TV ALL NEW SEWER LINES FOR DEBRIS AND ENSURE PROPER SLOPE PRIOR TO SEALING. ALL DEBRIS TO BE CLEARED.
  - CONTRACTOR TO POTHOLE AND VERIFY EXISTING SEWER DEPTHS AND LOCATIONS PRIOR TO CONSTRUCTION. CONTRACTOR TO NOTIFY ENGINEER IF PROBLEMS EXIST AS SOON AS THEY ARE DETERMINED.

CONSTRUCTION TO CONFORM TO THE FOLLOWING APWA (LATEST EDITION) TABLE:

ASPHALT CONCRETE "T" PATCH	ASTM 255 TYPE A
CONCRETE PAVEMENT PATCH	ASTM 256, 261 TYPE D
TRENCH BACKFILL	ASTM 381
PIPE ZONE BACKFILL	ASTM 382 TYPE B
SEWER LATERAL CONNECTION	ASTM 431
WATERLINE LOOP	ASTM 542

DASHED LINE INDICATES LIMITS OF CONSTRUCTION UNLESS NOTED TO BE CONSTRUCTED THIS PHASE - ALL WORK REQUIRED TO PROVIDE AND INSTALL MODULAR CLASSROOM UNITS #9 - #12 INCLUDING SIDEWALKS, RAMPS AND PAVING WHERE INDICATED.

SEE SHEET E-101 FOR ELECTRICAL SITE PLAN.

CLARIFICATION: ALL STAGING AREAS INCLUDING LOCATIONS FOR SNOW REMOVAL AND GRAVEL STORAGE TO BE COORDINATED WITH UTAH NATIONAL GUARD PERSONNEL.

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703 east 1700 south  
salt lake city, utah 84105  
ph: 801.466.8818  
fx: 801.466.4411  
ajc@ajcarchitects.com

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SHEET NAME:  
**B UTILITY DETAILS**

REVISIONS

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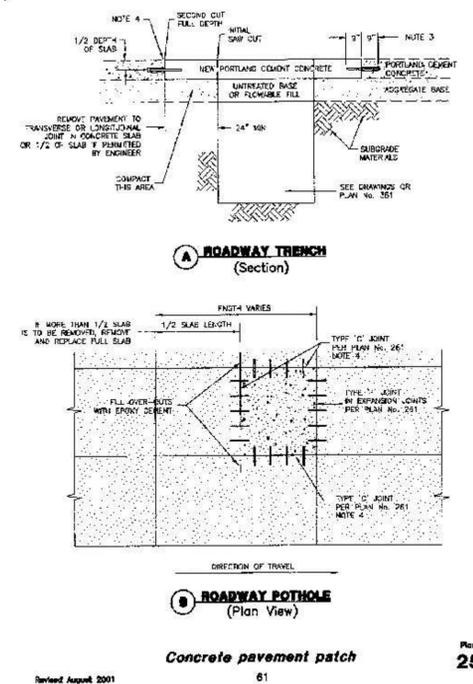
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STATE PROPERTY # 00000

SHEET NUMBER:

**C201**  
SHEET 3 OF 12



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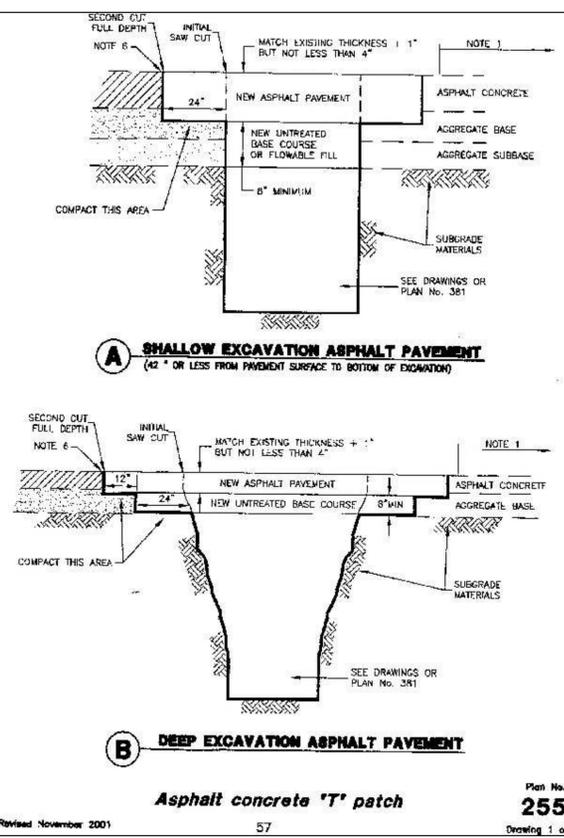


Concrete pavement patch Plan No. 256

Revised August 2001

- 1. UNTREATED BASE COURSE: Provide material specified in APWA Section 02060. Do not use gravel or sewer rock.
A. Match depth of existing base courses or at least 8 inches
B. Place per APWA Section 02322. Compact per APWA Section 02324 to a modified proctor density of 95-percent or greater. Maximum lift thickness is 8-inches before compaction.
2. FLOWABLE FILL: Provide 28-day 60-psi controlled low strength material as specified in APWA Section 02062. Cure the fill to initial set before placing new cement concrete pavement. Use flowable fill in excavations that are too narrow to receive compaction equipment.
3. REINFORCEMENT: ASTM A 615, Grade 60, No. 5 galvanized or epoxy coated deformed steel 24 inches on center
4. TACK COAT: Type II (non-redispersible) polyvinyl acetate base or acrylic base latex per ASTM C 1059. Do not apply tack coat to expansion joints.
5. PORTLAND CEMENT CONCRETE: Use Class 4000 concrete per APWA Section 03304.
A. If curb and gutter was poured monolithic to the pavement slab then such curb and gutter must also be removed and replaced or the patch slab thickness must be increased by 3 inches.
B. Clean all edges of all dirt, oil and loose debris prior to concrete placement. Apply concrete bonding compound per APWA Section 03310. Place concrete per APWA Section 03310
C. Match existing concrete thickness
D. Cure concrete per APWA Section 03390
E. Plane off surface distortions that exceed 1/4 inch deviation in 10 feet. Coat planed surfaces with a water repellent product that complies with APWA Section 07190.
6. JOINTS: Sawcut the surface of the new cement concrete to match existing concrete pavement joint patterns. Use the appropriate joint types shown in Plan No. 261.

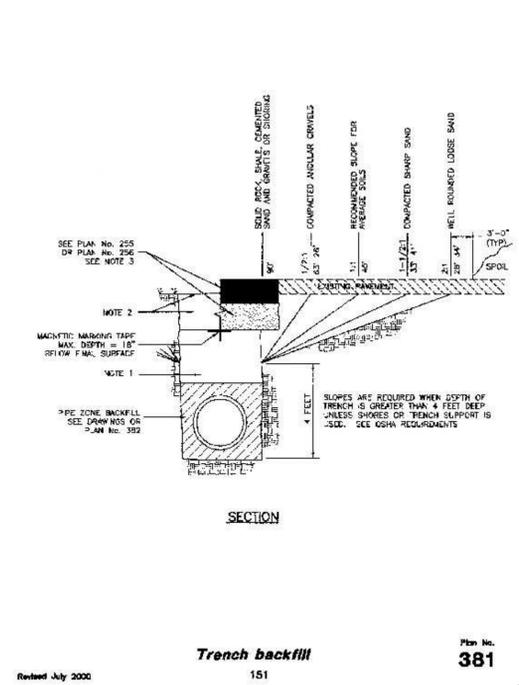
CONCRETE PAVEMENT PATCH C-4 NO SCALE



Asphalt concrete 'T' patch Plan No. 255

Revised November 2001

ASPHALT CONCRETE 'T' PATCH C-2 NO SCALE

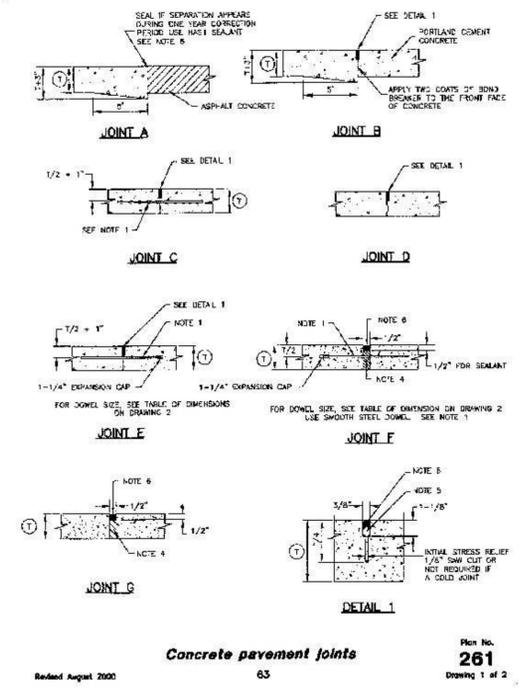


Trench backfill Plan No. 381

Revised July 2000

- 1. BACKFILL: L mill maximum particle size in trench backfill material to 8 inches.
A. Backfill Material: Place backfill per APWA Section 02321. Compact per APWA Section 02324 to a modified proctor density of 95-percent or greater. Maximum lift thickness is 8-inches before compaction. Do not use clay without ENGINEER'S review and acceptance.
B. Flowable Fill: Provide and place controlled low strength material per APWA Section 02062. Cure the fill before placing surface restorations.
2. LANDSCAPED RESTORATION: Provide landscaped surfaces with topsoil. Rake to match existing grade. Replace vegetation to match pre-construction conditions. See APWA Section 02920 or 02930 requirements.
3. PAVEMENT RESTORATION: Do not install asphalt or concrete surfacing until trench compaction is accepted by ENGINEER.
4. PEA GRAVEL: Pea gravel and "squeegy" is not allowed in any part of the trench.

TRENCH BACKFILL C-4 NO SCALE



Concrete pavement joints Plan No. 261

Revised August 2000

CONCRETE PAVEMENT JOINTS A-2 NO SCALE

- Asphalt concrete 'T' patch
1. ADDITIONAL PAVEMENT REMOVAL: Remove additional pavement to a painted lane stripe, a lip of gutter, a curb, an existing pavement patch, or an edge of the pavement if such street feature is within 2-feet of the second saw cut.
2. UNTREATED BASE COURSE: Provide material specified in APWA Section 02060. Do not use gravel or sewer rock. Place per APWA Section 02322. Compact per APWA Section 02324 to a modified proctor density of 95-percent or greater. Maximum lift thickness is 8-inches before compaction.
3. FLOWABLE FILL: Provide 28-day 60-psi controlled low strength material as specified in APWA Section 02062. Use fill which flows easily and vibration is not required. Cure to initial set before placing new untreated base course or new asphalt pavement. Use flowable fill in excavations that are too narrow to receive compaction equipment.
4. TACK COAT: Full tack coat coverage on all vertical surfaces.
5. ASPHALT PAVEMENT: Use asphalt concrete specified in APWA Section 02985.
A. Install in lifts no greater than 3-inches after compaction.
B. Compact within the range of 96 to 98 percent relative to the ASTM D 5581 (Marshall method) or 93 to 97 percent relative to ASTM D 2041 (Rice method).
C. Plan off surface distortions that exceed 1/4 inch deviation in 10 feet. Coat planed surfaces with a cationic or anionic emulsion that complies with Section 02703.
6. JOINT REPAIR: If a crack occurs at the 'T' patch connection to existing pavement or at any street fixture, seal the crack per APWA Section 02975.
7. PATCH REPAIR: Repair the asphalt pavement patch if any of the following conditions within the patch occur.
A. Cracks at least 1-foot long and 1/4-inch wide occur more often than 1 in 10 square feet.
B. Pavement surface distortion exceeds 1/4-inch deviation in 10 feet.
C. Asphalt ravelling is greater than 1 square foot per 100 square feet.

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703 east 1700 south  
salt lake city, utah 84105  
ph: 801.466.8818  
fx: 801.466.4411  
ajc@ajcarchitects.com

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SHEET NAME:

UTILITY DETAILS

REVISIONS

ISSUE DATA

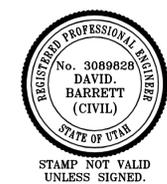
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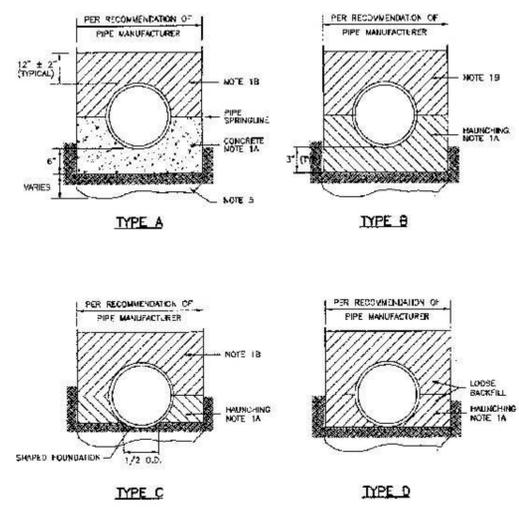
SHEET 4 OF 12



STAMP NOT VALID UNLESS SIGNED.

Pipe zone bedding

- BACKFILL:
  - Pipe Zone Below Pipe Springline. Furnish bedding material allowed by pipe manufacturer. Install and compact backfill material per pipe manufacturer recommendations. When using concrete, provide at least Class 2,000 per APWA Section 02304. Submission of quality control compaction test result data developed for haunching areas may be requested by ENGINEER at any time. CONTRACTOR is to provide results of tests immediately upon request.
  - Pipe Zone Above Pipe Springline. Limit particle size to 2 inches maximum. Place in lifts not exceeding 8-inches before compaction per APWA Section 02321. Compact per APWA Section 02324 to a modified proctor density of 95-percent or greater unless pipe manufacturer requires more stringent installation.
  - Flowable Fill. Provide and place controlled low strength material per APWA Section 02052 if allowed by pipe manufacturer. Reset pipe to line and grade if pipe "floats" out of position.
- PIPE ZONE WIDTH: Provide width recommended by pipe manufacturer. Width of pipe zone is measured at the pipe springline and includes any necessary sheathing.
- PIPE LOCATION: Install pipe in center of trench or no closer than 6 inches from wall of pipe to wall of trench.
- PEA GRAVEL: Pea gravel and "squeegy" is not allowed in any part of the pipe zone except where specified for dewatering piping systems.
- FOUNDATION STABILIZATION: Use sewer rock of APWA Section 02069. Installation of stabilization-separation geotextile per APWA Section 02075 will be required to separate backfill material and native subgrade materials if sewer rock cannot provide a working surface.



FOR CONCRETE PIPE, FOLLOW "THE STANDARD INSTALLATION AND BEDDING" PER APWA DD 40 (ACPA - AMERICAN CONCRETE PIPE ASSOCIATION)

Pipe zone bedding Plan No. 382

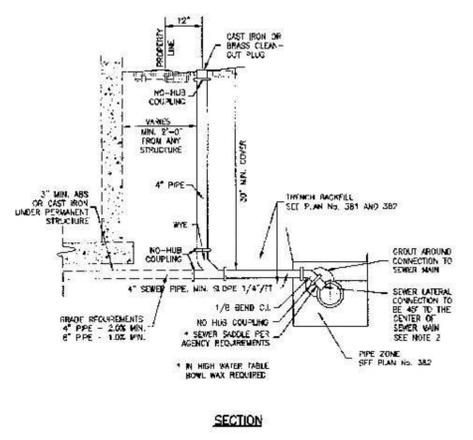
152

Revised August 2001

153

Sewer lateral connection

- INSPECTION:
  - Prior to installation, secure acceptance by ENGINEER for all pipe, fittings, and couplings to be used.
  - Prior to backfilling, secure inspection of installation by ENGINEER. Give at least 24-hour notice.
- INSTALLATION:
  - Provide agency approved wye or tee with appropriate donut. Verify whether CONTRACTOR or agency is to install the wye.
  - Tape wrap pipe as required by soil conditions.
  - Remove core plug from sewer main. Do not break into sewer main to make connection.
  - Stainless steel straps required.
- BACKFILL: Provide and place per APWA Section 02321. Compact per APWA Section 02324 to a modified proctor density of 95-percent or greater. Maximum lift thickness is 8-inches before compaction.



Sewer lateral connection Plan No. 431

166

Revised April 1997

167

PIPE ZONE BEDDING  
NO SCALE

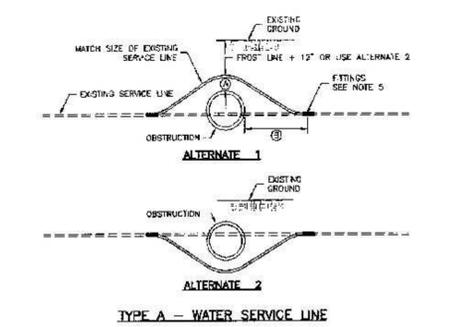
C-2  
C-202

SEWER LATERAL CONNECTION  
NO SCALE

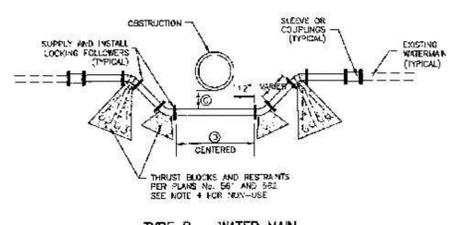
C-4  
C-202

Waterline loop

- INSPECTION: Prior to backfilling trench excavation, secure inspection of installation by ENGINEER.
- BACKFILL: Provide and place per APWA Section 02321. Compact per APWA Section 02324 to a modified proctor density of 95-percent or greater. Maximum lift thickness is 8-inches before compaction.
- PIPE: Match existing service. Bend pipe around obstruction.
- THRUST BLOCKS: Not required for flange or welded pipe systems.
- FITTINGS: Use copper to copper flare fittings or copper to iron pack joint coupling with locking split clamp or iron pipe side and flare on copper side. All couplings to be brass.
- GREASE: Apply poly-in grease to all buried metal surfaces. Wrap with 8 mil thick polyethylene sheet and tape wrap.
- STEEL SPOOL: Weld in place and provide slip on flange except when fitting in pipe system could move. Epoxy line per AWWA C210, C213, and coated per AWWA C208, or C214.
- LOCATION: Loop water mains over top of sewer lines.



TYPE A - WATER SERVICE LINE



TYPE B - WATER MAIN

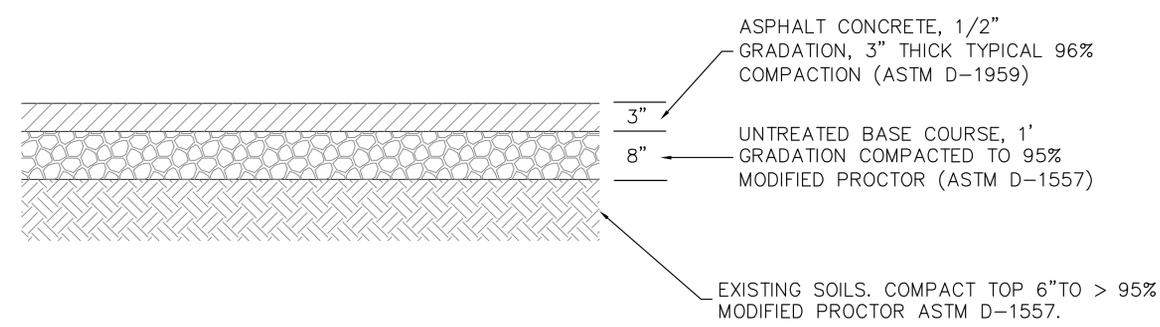
TABLE OF DIMENSIONS	
OBSTRUCTION	
No.	DESCRIPTION
(A)	SEWER MAIN
(B)	OTHER
(C)	1" - 2"
(D)	2" - 6"
(E)	6" - 18"
(F)	18" - 24" MIN.
(G)	FULL PIPE LENGTH O.D. + 12"

Waterline loop Plan No. 542

202

Revised April 1997

203



ASPHALT CONCRETE PAVEMENT SECTION

A-4  
C-202

WATERLINE LOOP  
NO SCALE

A-2  
C-202

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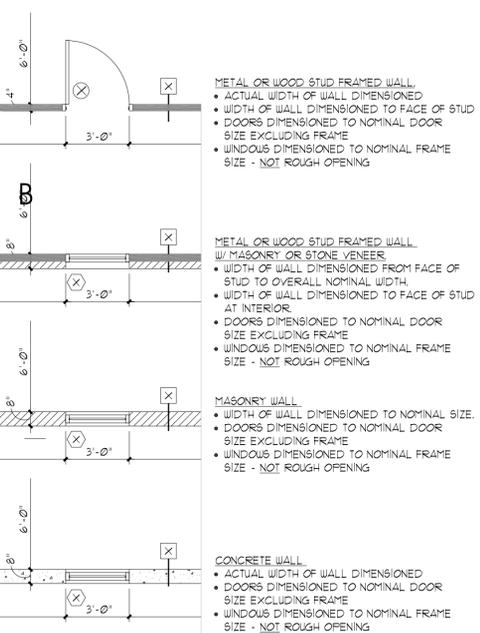
# ABBREVIATIONS

AB	ANCHOR BOLTS	EA	EACH	MAINT	MAINTENANCE	SECT	SECTION
ABBREV	ABBREVIATION (S)	ELEC	ELECTRICAL	MAT'L	MATERIAL	SHT	SHEET
APPR	APPROVED	ELEV or EL	ELEVATION	MAX	MAXIMUM	SIM	SIMILAR
ACOUS	ACOUSTICAL	ELEV	ELEVATOR	MB	MACHINE BOLT	SIMUL	SIMULATED
AC	ASPHALT CONCRETE	EQ	EQUAL	MECH	MECHANICAL	SPECS	SPECIFICATIONS
ACC	AIR CONDITIONING	EQUIP	EQUIPMENT	MET	METAL	SS	STAINLESS STEEL
AD	ACCESS DOOR	EXIST	EXISTING	MEZZ	MEZZANINE	STA	STATION
AFF	ABOVE FINISHED FLOOR	EJ	EXPANSION JOINT	MFR	MANUFACTURER		
ALUM	ALUMINUM	EXT	EXTERIOR	MISC	MISCELLANEOUS	STD	STANDARD
BD	BOARD	EWC	ELEC WATER COOLER	MO	MASONRY OPENING	STL	STEEL
BLDG	BUILDING	FF	FINISH FLOOR	MULL	MULLION	SQ	SQUARE
BLOCK	BLOCK	FHC	FIRE HOSE CABINET			STRUC	STRUCTURAL
BEAM	BEAM	FN	FINISH			SUSP	SUSPENDED
B.O.B.	BOTTOM OF BEAM	FLR	FLOOR	(N)	NEW	SYM	SYMMETRICAL
BOT	BOTTOM	FO	FINISHED OPENING	NO.	NUMBER		
		FOC	FACE OF CONCRETE	N.T.S.	NOT TO SCALE		
				NR	NON-RATED	T	TREAD
C/C	CENTER TO CENTER	FO5	FACE OF STUD	OC	ON CENTER	T & G	TRAFFIC DECK COVERING
CER	CERAMIC	FW	FACE OF WALL	OCC	OPERATOR CONTROL CENTER	TEMP	TEMPERED
CH	CEILING HEIGHT	FDN	FOUNDATION	OD	OUTSIDE DIAMETER	TEL	TELEPHONE
CEM	CEMENT	FRP	FIBER REINFORCED PLASTIC	OF	OFFICE	THK	THICK
CLG	CEILING	FD	FLOOR DRAIN	OFF	OFFICE	T.O.C.	TOP OF CONCRETE or CURB
CLOS.	CLOSET	FLS	FLOOR SINK	OFI	OWNER FURNISH ITEM	T.O.F.	TOP OF FOOTING
CLR	CLEAR	FS	FULL SIZE	OFI	OWNER FURNISH ITEM	T.O.P.	TOP OF PARAPET
CMU	CONCRETE MASONRY UNIT	FSD	FULL SIZE DETAIL	OFOI	OWNER FURNISHED OWNER INSTALLED	T.O.S.	TOP OF STEEL
CO	COLUMN	FT	FEET	OH	OPPOSITE HAND	TYP	TYPICAL
COMPO	COMPOSITION	FH	FULL HEIGHT	OPNG	OPENING	T.O.W.	TOP OF WALL
CONC	CONCRETE	GA	GAUGE	OPNG	OPENING	UNO	UNLESS NOTED OTHERWISE
CONN	CONNECTION	GC	GENERAL CONTRACTOR	PC	PORTLAND CEMENT	VER	VERTICAL
CONT	CONTINUOUS	GL	GALVANIZED	PL	PLATE		
CORR	CORRIDOR	GR	GRADE	PLAS	PLASTER		
CSK	COUNTERSINK	GALV or GV	GALVANIZED	PLYWD	PLYWOOD		
		GYP BD	GYP SUM BOARD	FR	FIBER REINFORCED PLASTIC		
DEL	DELETE	H	HIGH	PREP	PREPARATION	W	WIDE
DET	DETAIL	HWD	HARDWOOD	PROJ	PROJECTION	W	WITH
DF	DOUGLAS FIR	HORIZ	HORIZONTAL	PT	PROJECTION	WC	WATER CLOSET
DF	DOUGLAS FIR	HP	HOLLOW POINT	PTDF	PRESSURE TREATED	WD	WOOD
DIA	DIAMETER	HP	HIGH POINT	PTDF	PRESSURE TREATED DOUGLAS FIR	WI	WROUGHT IRON
DIAG	DIAGONAL			QT	QUARRY TILE	WL	WATER LEVEL
DIR	DIRECTION					WP	WORKING POINT
DIR	DIRECTION					WP	WORKING POINT
DBL	DOUBLE	ID	INSIDE DIAMETER	R	RISER	W/P	WATERPROOFING
DN	DOWN	INSUL	INSULATION	R or RAD	RADIUS		
DO	DOOR OPENING	INT	INTERIOR	REF	REFERENCE		
DOOR	DOOR			REFL	REFLECTED		
DOWNSPOUT	DOWNSPOUT	JAN	JANITOR	REIN	REINFORCED		
DRAWING	DRAWING	REG'D	REQUIRED	RES	RESILIENT		
		LEV	LEVEL	RFY	ROUGH OPENING		
		LTG	LIGHTING	REDUD	REDWOOD		
		LTWT	LIGHT WEIGHT				

# MATERIALS LEGEND (TYPICAL PLAN VIEWS)

## NEW CONSTRUCTION

ALL NEW CONSTRUCTION IS SHOWN HATCHED AS ILLUSTRATED BELOW  
 ALL NEW CONSTRUCTION IS FULLY NOTATED AS SHOWN BELOW  
 ALL WORK IS NEW UNLESS LABELED "EXISTING"



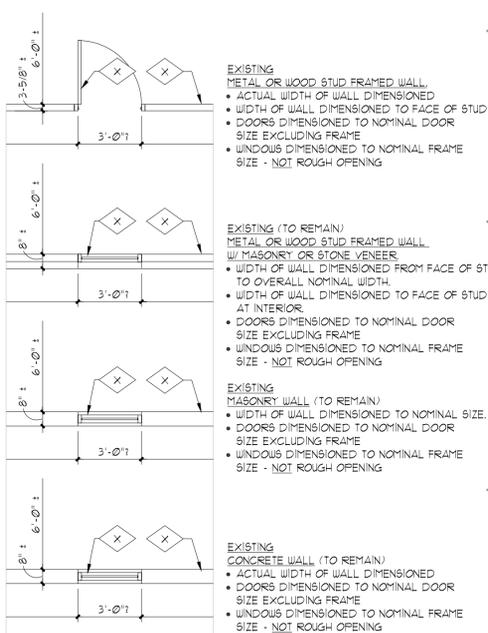
## NEW CONSTRUCTION AT EXISTING

ALL NEW CONSTRUCTION IS SHOWN THICK LINE 4 HATCHED AS ILLUSTRATED BELOW  
 ALL EXISTING COMPONENTS SHOWN THIN LINE SOLID, NO HATCH.



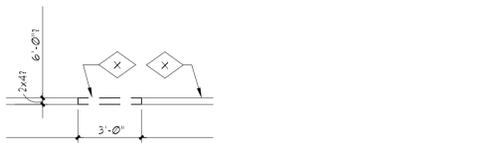
## EXISTING CONDITIONS

ALL EXISTING CONSTRUCTION IS SHOWN WITHOUT HATCH AS ILLUSTRATED BELOW  
 ALL EXISTING CONSTRUCTION IS LABELED "EXISTING" BY KEYNOTE OR OTHERWISE  
 ALL DIMENSIONS TO EXISTING ARE APPROXIMATE ONLY AND ARE TO BE FIELD VERIFIED BY THE CONTRACTOR



## DEMOLITION AT EXISTING CONDITIONS

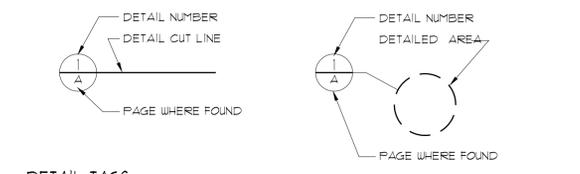
ALL EXISTING COMPONENTS SHOWN THIN LINE SOLID, NO HATCH.  
 ALL COMPONENTS TO BE DEMOLISHED ARE SHOWN DASHED, THIN LINE



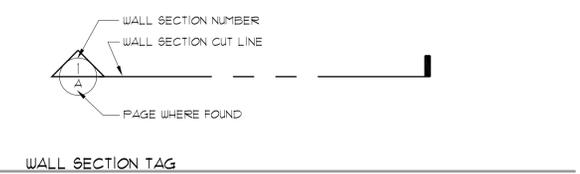
# SYMBOLS

∠	ANGLE	φ	DIAMETER or ROUND	¢	AND
U	CHANNEL	□	SQUARE	@	AT
⌊	PLATE	⊙	WORK POINT OR ELEV BENCH MARK	Δ	DELTA
⊕	CENTER LINE	#	NUMBER	Ⓧ	PENNY

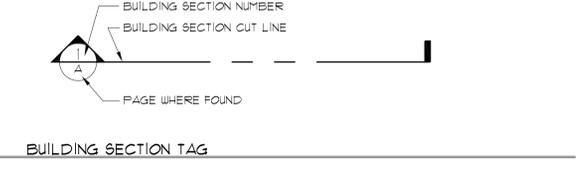
## DETAIL TAGS



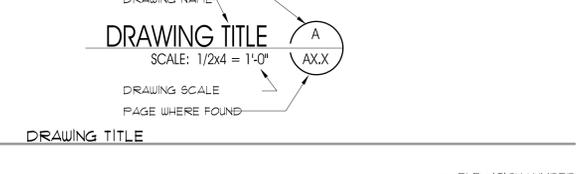
## DETAIL TAGS



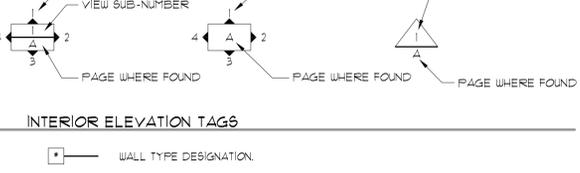
## WALL SECTION TAG



## BUILDING SECTION TAG



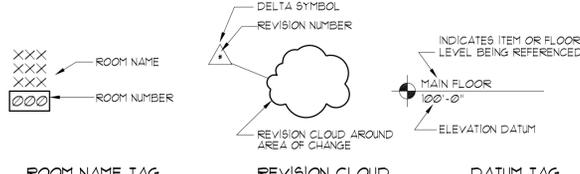
## DRAWING TITLE



## INTERIOR ELEVATION TAGS

■	WALL TYPE DESIGNATION
•	KEYNOTE
◆	WALL, FLOOR, BASE, CEILING FINISH KEYNOTE
◇	EXISTING/DEM'D KEYNOTE
⊕	DOOR DESIGNATION. SEE DOOR SCHEDULE.
⊙	WINDOW DESIGNATION. SEE WINDOW SCHEDULE.

## MISCELLANEOUS KEYED NOTE SYMBOLS



## ROOM NAME TAG

## REVISION CLOUD

## DATUM TAG

# GENERAL NOTES:

- THE GENERAL CONTRACTOR SHALL BE REFERRED TO AS "GENERAL CONTRACTOR" OR "GC".
- THE GENERAL CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS AND DIMENSIONS PRIOR TO ANY WORK AND SHALL BE RESPONSIBLE FOR ALL WORK AND MATERIALS INCLUDING THOSE FURNISHED BY SUBCONTRACTORS. CONTRACTOR SHALL ACCEPT PREMISES AS FOUND. OWNER WILL MAINTAIN THE EXISTING CONDITION OF THE SITE AND EXISTING STRUCTURES AT THE TIME OF BIDDING AND THEREAFTER.
- DIMENSIONS TAKE PRECEDENCE OVER DRAWINGS. DO NOT SCALE DRAWINGS TO DETERMINE ANY LOCATIONS. THE ARCHITECT/OWNER SHALL BE NOTIFIED IF ANY DISCREPANCY OCCURS PRIOR TO CONTINUING WITH WORK.
- ALL PLAN DIMENSIONS ARE FROM GRIDLINE OR FACE OF STUD OR FACE OF BLOCK UNLESS OTHERWISE INDICATED. SEE SECTION ON "DIMENSIONING" THIS SHEET.
- ALL CONSTRUCTION SHALL COMPLY WITH THE APPLICABLE BUILDING CODES AND LOCAL RESTRICTIONS. THE GENERAL CONTRACTOR MUST COMPLY WITH THE CONTRACTOR REGISTRATION REQUIREMENTS OF ALL GOVERNING AUTHORITIES.
- THE CONTRACTOR SHALL REPORT TO THE ARCHITECT ALL CONDITIONS REQUIRING COORDINATION/ CHANGES WITH THE CONTRACT DOCUMENTS. COORDINATION / APPROVAL SHALL TAKE PLACE BEFORE THE WORK BEGINS. ALL CHANGES TO THE CONTRACT COST SHALL BE APPROVED THROUGH A CHANGE ORDER.
- A GENERAL BUILDING PERMIT IS NOT REQUIRED. ALL OTHER PERMITS OR CONNECTION FEES SHALL BE SECURED AND PAID FOR BY THE GENERAL CONTRACTOR.
- IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO LOCATE ALL EXISTING UTILITIES WHETHER SHOWN HEREIN OR NOT AND TO PROTECT THEM FROM DAMAGE. THE GENERAL CONTRACTOR SHALL BEAR ALL EXPENSE OF REPAIR OR REPLACEMENT OF UTILITIES OR OTHER PROPERTY DAMAGED BY OPERATIONS IN CONJUNCTION WITH THE PROSECUTION OF THE WORK.
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE SECURITY OF THE SITE WHILE JOB IS IN PROGRESS AND UNTIL JOB IS COMPLETED, AND KEYS TURNED OVER TO OWNER.
- ALL DEBRIS SHALL BE REMOVED FROM PREMISES AND ALL AREAS SHALL BE LEFT IN A CLEAN (BROOM) CONDITION AT ALL TIMES.
- CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO ENSURE THE SAFETY OF THE OCCUPANTS AND WORKERS AT ALL TIMES.
- CONTRACTOR SHALL PROVIDE TEMPORARY WATER, POWER AND TOILET FACILITIES, AS WELL AS ON SITE PHONE OR CELLULAR.
- APPROVED PLANS SHALL BE KEPT IN A PLAN BOX AND SHALL NOT BE USED BY WORKMEN. ALL CONSTRUCTION SETS SHALL REFLECT THE SAME INFORMATION. THE GENERAL CONTRACTOR SHALL ALSO MAINTAIN, IN GOOD CONDITION, ONE COMPLETE SET OF PLANS WITH ALL REVISIONS, ADDENDUMS AND CHANGE ORDERS, ON THE PREMISES AT ALL TIMES. THESE ARE TO BE KEPT UNDER THE CARE OF THE JOB SUPERINTENDENT.
- THE GENERAL CONTRACTOR IS RESPONSIBLE FOR RECEIVING, UNLOADING, UNCRATING, INSTALLATION AND HOOK-UP OF ALL OWNER FURNISHED ITEMS.
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR AND SHALL REPLACE OR REMEDY ANY FAULTY, IMPROPER OR INFERIOR MATERIALS OR WORKMANSHIP WHICH SHALL APPEAR WITHIN ONE (1) YEAR OR AS OTHERWISE SPECIFIED FOR A SPECIFIC COMPONENT AFTER THE COMPLETION AND ACCEPTANCE OF THE WORK UNDER THIS CONTRACT.
- DISCREPANCIES BETWEEN PORTIONS OF THE CONTRACT DOCUMENTS ARE NOT INTENDED. THE GENERAL CONTRACTOR IS TO CLARIFY WITH THE ARCHITECT ANY SUCH DISCREPANCIES PRIOR TO COMMENCING WORK.
- THE ARCHITECT/OWNER WILL REVIEW SHOP DRAWINGS AND SAMPLES FOR CONFORMANCE WITH DESIGN CONCEPT OF THE PROJECT. THE OWNER/ARCHITECT'S REVIEW OF A SEPARATE ITEM SHALL NOT INDICATE APPROVAL OF AN ASSEMBLY IN WHICH THE ITEM FUNCTIONS.
- MINIMUM FLAME SPREAD CLASSIFICATION OF INTERIOR FINISH SHALL CONFORM TO THE BUILDING CODE AND LOCAL GOVERNING BUILDING CODES/ORDINANCES.
- GENERAL CONTRACTOR TO COORDINATE JOB SITE SECURITY WITH UTAH NATIONAL GUARD PERSONNEL.
- THE GENERAL CONTRACTOR IS TO ASSURE THAT NO REBAR OR REINFORCEMENT IS PRESENT PRIOR TO CORE DRILLING OR PLACING BOLTS OR ANY OTHER ITEM WHICH COULD DISTURB THE STRUCTURAL SLAB OR FOUNDATION WALLS.
- DETAILED DRAWINGS AND LARGER SCALE DRAWINGS TAKE PRECEDENCE OVER SMALL SCALE DRAWINGS.
- FOR CONSTRUCTION DETAILS NOT SHOWN, USE THE MANUFACTURER'S STANDARD DETAILS OR APPROVED SHOP DRAWINGS / DATA SHEETS IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
- ALL PROJECT CONSTRUCTION SHALL CONFORM WITH ANSI A-111.1-1992, AND IBC 2003 INCLUDING 106.3.4.2.

**PLEASE NOTE:**  
 IT IS THE GENERAL CONTRACTORS RESPONSIBILITY TO UTILIZE THE CONSTRUCTION DRAWINGS AND WRITTEN SPECIFICATIONS FOR ALL REQUIRED INFORMATION TO PROVIDE COMPLETE CONSTRUCTION OF THIS PROJECT. ITEMS LISTED IN DRAWINGS, MAY NOT BE INCLUDED IN SPECIFICATIONS. ITEMS LISTED IN SPECIFICATIONS, MAY NOT BE INCLUDED IN DRAWINGS.

# MATERIALS LEGEND (TYPICAL SECTION VIEWS)

	METAL		FINISHED WOOD MEMBER
	EARTH		PLYWOOD
	CONCRETE		BATT INSULATION
	CONCRETE MASONRY UNIT		GYP BOARD
	CONTINUOUS WOOD MEMBER		PLASTER OR STUCCO
	WOOD BLOCKING		RIGID INSULATION

**ajc architects**  
 703 east 1700 south  
 salt lake city, utah 84105  
 ph: 801.466.8818  
 fx: 801.466.4411  
 ajc@ajcarchitects.com

**CONSULTANT Thomas & Kolkman**  
**ELECTRICAL Engineering Co., Inc.**  
 64 West 1700 South  
 Salt Lake City, Utah 84115  
 PH#: (801) 484-8161  
 FAX: (801) 484-3538  
 CONTACT: Ray Kolkman

**Stantec Consulting**  
 3995 South 700 East Suite 300  
 Salt Lake City, Utah, 84107  
 PH#: (801) 261-0090  
 FAX: (801) 266-1671  
 CONTACT: Ken Engstrom

## PROJECT DESCRIPTION

**State of Utah**  
 Department of Administrative Services  
**Division of Facilities**  
 Construction & Management  
 4110 State Office Building  
 Salt Lake City, Utah 84114  
 Phone: (801) 538 - 3018  
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Internet: <http://www.dfcm.utah.gov>

R.T.I CLASSROOMS  
 9,10,11,12  
 CAMP WILLIAMS  
 DRAPER, UTAH

## GENERAL NOTES AND ABBREVIATIONS

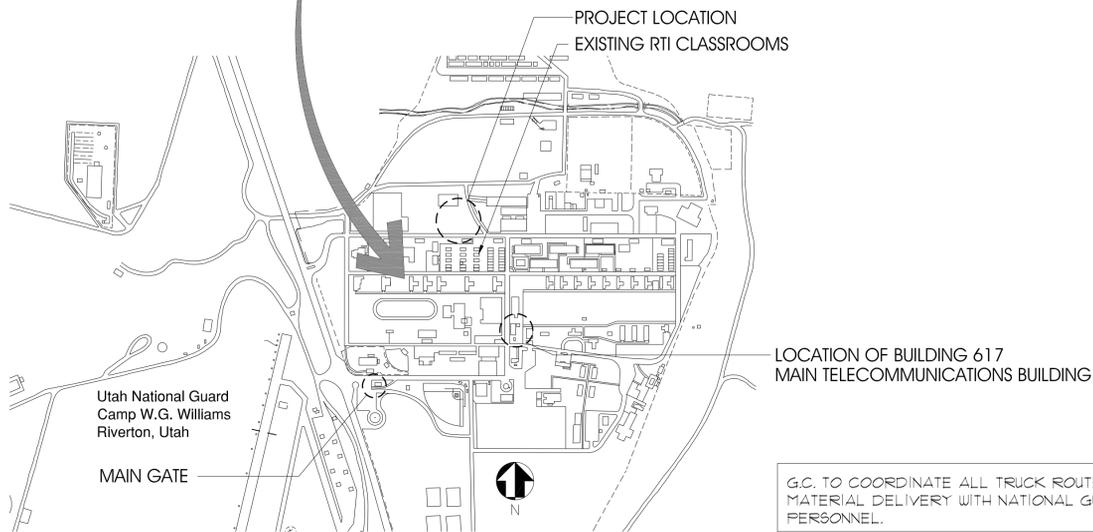
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ISSUE DATE:	JUNE 2006
ISSUE TYPE:	CD
DRAWN BY:	BJA
CHECKED BY:	0547-AE001.DWG
CAD FILE NAME:	DFCM PROJECT # 05236480
STATE PROPERTY #	00000
COPYRIGHT:	STATE OF UTAH

SHEET NUMBER:

# AE001

LOCATION MAP:



camp williams map  
NOT TO SCALE

G.C. TO COORDINATE ALL TRUCK ROUTES FOR MATERIAL DELIVERY WITH NATIONAL GUARD PERSONNEL.

CODE SUMMARY:

Based on the 2003 International Building Code															
A.	OCCUPANCY CLASSIFICATION:	B	SECTION 304												
B.	CONSTRUCTION TYPE:	V - B	SECTION 601												
C.	ALLOWABLE HEIGHT / AREA:	2 STORY / 9,000 SF	SECTION 503												
	ACTUAL SQUARE FOOTAGE	5,120 S.F. TOTAL FOR ENTIRE ROW AS ONE BUILDING													
D.	OCCUPANCY SEPARATIONS:	NONE REQUIRED	TABLE 302.3.3												
E.	FIRE RESISTANCE RATING FOR BUILDING ELEMENT	<table border="1"> <tr><td>STRUCTURAL FRAME</td><td>0</td></tr> <tr><td>EXTERIOR BEARING WALLS</td><td>0</td></tr> <tr><td>INTERIOR WALLS</td><td>0</td></tr> <tr><td>NON-BEARING WALLS</td><td>0</td></tr> <tr><td>FLOOR CONSTRUCTION</td><td>0</td></tr> <tr><td>WALL CONSTRUCTION</td><td>0</td></tr> </table>	STRUCTURAL FRAME	0	EXTERIOR BEARING WALLS	0	INTERIOR WALLS	0	NON-BEARING WALLS	0	FLOOR CONSTRUCTION	0	WALL CONSTRUCTION	0	TABLE 601
STRUCTURAL FRAME	0														
EXTERIOR BEARING WALLS	0														
INTERIOR WALLS	0														
NON-BEARING WALLS	0														
FLOOR CONSTRUCTION	0														
WALL CONSTRUCTION	0														
F.	FIRE RESISTANCE RATING FOR EXTERIOR WALLS BASED ON FIRE SEPARATION DISTANCE	<table border="1"> <tr><td>DISTANCE &lt; 5'-0"</td><td>1 HOUR</td></tr> <tr><td>DISTANCE ≥ 5'-0", &lt; 10'-0"</td><td>1 HOUR</td></tr> <tr><td>DISTANCE ≥ 10'-0", &lt; 30'-0"</td><td>1 HOUR</td></tr> </table>	DISTANCE < 5'-0"	1 HOUR	DISTANCE ≥ 5'-0", < 10'-0"	1 HOUR	DISTANCE ≥ 10'-0", < 30'-0"	1 HOUR	TABLE 601						
DISTANCE < 5'-0"	1 HOUR														
DISTANCE ≥ 5'-0", < 10'-0"	1 HOUR														
DISTANCE ≥ 10'-0", < 30'-0"	1 HOUR														
G.	FIRE RATED ASSEMBLIES:														
	ASSEMBLY	AGENCY NUMBER													
	NA	NA													
H.	OCCUPANT LOAD PER MODULAR UNIT	TBL 1004.1.2	49												
I.	EXIT REQUIREMENTS	TBL 1005.1	<table border="1"> <tr><td>REQUIRED</td><td>PROVIDED</td></tr> <tr><td>(1) EXIT @ 9.8" WIDE</td><td>(1) EXIT @ 34" CLEAR WIDTH</td></tr> </table>	REQUIRED	PROVIDED	(1) EXIT @ 9.8" WIDE	(1) EXIT @ 34" CLEAR WIDTH								
REQUIRED	PROVIDED														
(1) EXIT @ 9.8" WIDE	(1) EXIT @ 34" CLEAR WIDTH														

STRUCTURAL BASIS FOR DESIGN:

Based on the 2003 International Building Code

STRUCTURAL DESIGN OF THIS CLASSROOM STRUCTURE SHALL BE IN ACCORDANCE WITH THE 2003 IBC. NOTE THAT THE IRC IS NON APPLICABLE. MODULAR MANUFACTURER SHALL SUBMIT STRUCTURAL DESIGN CALCULATIONS SHOWING COMPLIANCE WITH IBC SEISMIC FORCES AS WELL AS 90 MPH, EXPOSURE C WIND FORCE.

ROOF LOADS LIVE LOADS.....30 PSF  
FLOOR LIVE LOADS.....40 PSF  
FLOOR DEAD LOAD AS INDICATED ON DRAWINGS  
INCLUDE WEIGHT OF PARTITIONS SHOWN.  
SUBMIT STRUCTURAL CALCULATIONS FOR ROOF TRUSSES AND ROOF GIRDER.

PROVIDE LATERAL SUPPORT OF NON-BEARING PARTITION WALLS AND ACCOMMODATE ROOF DEFLECTIONS AT WALLS.

DESIGN FOOTINGS FOR 1500 PSF SOIL PRESSURE.



703 east 1700 south  
salt lake city, utah 84105  
ph: 801.466.8818  
fx: 801.466.4411  
ajc@ajcarchitects.com

CONSULTANT Thomas & Kolkman  
ELECTRICAL Engineering Co., Inc.  
64 West 1700 South  
Salt Lake City, Utah 84115  
PH#: (801) 484-8161  
FAX: (801) 484-3538  
CONTACT: Ray Kolkman

Stantec  
CIVIL Consulting  
3995 South 700 East Suite 300  
Salt Lake City Utah, 84107  
PH#: (801) 261-0090  
FAX: (801) 266-1671  
CONTACT: Ken Engstrom

PROJECT DESCRIPTION

State of Utah  
Department of Administrative Services

Division of Facilities  
Construction & Management  
4110 State Office Building  
Salt Lake City, Utah 84114  
Phone: (801) 538 - 3018  
Fax: (801) 538 - 3267

Internet: <http://www.dfcm.utah.gov>

R.T.I CLASSROOMS  
9,10,11,12  
CAMP WILLIAMS  
DRAPER, UTAH

SHEET NAME:

CODE SUMMARY  
LOCATION MAP

REVISIONS

MARK DATE DESCRIPTION

ISSUE DATA

ISSUE DATE: JUNE 2006  
ISSUE TYPE: CD  
DRAWN BY: BJA  
CHECKED BY:  
CAD FILE NAME: 0547AE002.DWG  
DFCM PROJECT # 05236480  
STATE PROPERTY # 00000  
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SHEET NUMBER:

AE002



703 east 1700 south  
 salt lake city, utah 84105  
 ph: 801.466.8818  
 fx: 801.466.4411  
 ajc@ajcarchitects.com

CONSULTANT Thomas & Kolkman  
**ELECTRICAL** Engineering Co., Inc.  
 64 West 1700 South  
 Salt Lake City, Utah 84115  
 PH#: (801) 484-8161  
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R.T.I CLASSROOMS  
 9,10,11,12  
 CAMP WILLIAMS  
 DRAPER, UTAH

SHEET NAME:  
**EXISTING CONDITIONS  
 SITE PREP PLAN**

REVISIONS		
MARK	DATE	DESCRIPTION

ISSUE DATA	
ISSUE DATE:	JUNE 2006
ISSUE TYPE:	CD
DRAWN BY:	
CHECKED BY:	
CAD FILE NAME:	0225_CL_AS101
DFCM PROJECT #	05236480
STATE PROPERTY #	00000
COPYRIGHT:	STATE OF UTAH

SHEET NUMBER:

**AS101**  
 SHEET 7 OF 13

**GENERAL NOTES AND LEGEND:**  
 FOR SHEET AS101 ONLY.

- SEE SHEET AE001 FOR GENERAL NOTES.
- SEE COVER SHEET FOR DRAWING INDEX.
- DO NOT SCALE DRAWINGS.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE BEGINNING WORK AND SHALL REPORT TO OWNER / ARCHITECT ANY ERRORS, INCONSISTENCIES OR OMISSIONS BEFORE BEGINNING WORK. SEE GENERAL NOTES AND SPECIFICATIONS.
- CONTRACTOR TO REMOVE GRAVEL FROM AREA OF CONSTRUCTION AND STORE ON SITE FOR USE AFTER CONSTRUCTION - G.C. TO COORDINATE STORAGE LOCATION WITH UTNG.
- CONTRACTOR TO COORDINATE ALL CONSTRUCTION STAGING AREA(S) AND EMPLOYEE PARKING WITH NATIONAL GUARD PERSONNEL.

- EXISTING GRAVEL OPEN AREA TO BE PREPARED FOR NEW ASPHALT PAVING OR SITE UTILITIES
- EXISTING GRAVEL OPEN AREA TO BE PREPARED FOR NEW CONCRETE SIDEWALK
- EXISTING GRAVEL OPEN AREA TO BE PREPARED FOR NEW MODULAR BUILDING

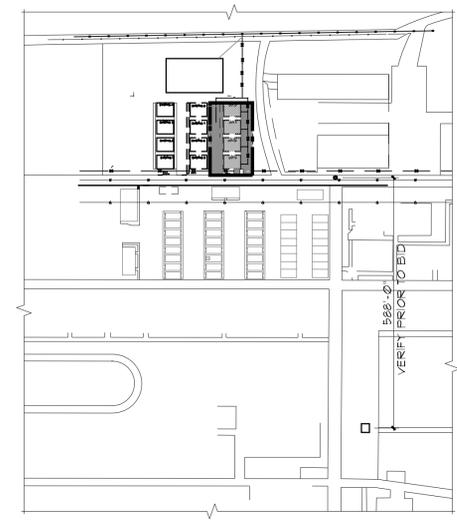
**KEYED NOTE LEGEND:**  
 FOR SHEET AS101 ONLY.

- 1 EXISTING ASPHALT PAVING TO REMAIN.
- 2 EXISTING BUILDING TO REMAIN - PROTECT DURING ALL PHASES OF CONSTRUCTION.
- 3 EXISTING ELEC. / COMM. MANHOLE.
- 4 EXISTING STRUCTURE - PROTECT DURING ALL PHASES OF CONSTRUCTION.
- 5 HATCHED AREA TO BE PREPARED AS REQUIRED FOR INSTALLATION OF NEW 4" CONCRETE SIDEWALK OVER 4" FREE DRAINING GRAVEL. COORDINATE WITH CONSTRUCTION LIMIT LINE FOR THIS BID.
- 6 EXISTING CONCRETE SIDEWALK TO REMAIN - PROTECT.
- 7 EXISTING TELECOM BUILDING (BUILDING 617).
- 8 HATCHED AREA TO BE EXCAVATED AND PREPARED AS REQUIRED FOR INSTALLATION OF NEW ASPHALT PAVING - SEE CIVIL DRAWINGS. COORDINATE WITH CONSTRUCTION LIMIT LINE FOR THIS BID.
- 9 EXISTING HISTORICAL STONE GUTTER SYSTEM TO REMAIN INTACT - PROTECT DURING ALL PHASES OF CONSTRUCTION.
- 10 EXISTING POWER POLE AND GUY-WIRE, PROTECT DURING ALL PHASES OF CONSTRUCTION.
- 11 EXISTING FIRE HYDRANT - PROTECT DURING ALL PHASES OF DEMOLITION AND CONSTRUCTION.
- 12 EXISTING STEEL PLATE DRIVE TO REMAIN - PROTECT.
- 13 PREFABRICATED BLEACHERS AT THIS LOCATION - PROTECT.
- 14 HATCHED AREA TO BE EXCAVATED AND PREPARED FOR INSTALLATION OF NEW MODULAR BUILDINGS WITH CONTINUOUS PERIMETER FOOTINGS AND FOUNDATIONS. COORDINATE WITH CONSTRUCTION LIMIT LINE FOR THIS BID.
- 15 UTNG VEHICLE PARKING AREA (GRAVEL) - G.C. TO COORDINATE STAGING AREA WITH NATIONAL GUARD PRIOR TO COMMENCEMENT OF WORK.
- 16 HATCHED AREA TO BE TRENCHED AS REQUIRED FOR INSTALLATION OF NEW UTILITY CONDUIT AND PIPING - SEE CIVIL AND ELECTRICAL DRAWINGS. COORDINATE WITH CONSTRUCTION LIMIT LINE FOR THIS BID.
- 17 CONSTRUCTION LIMIT LINE.

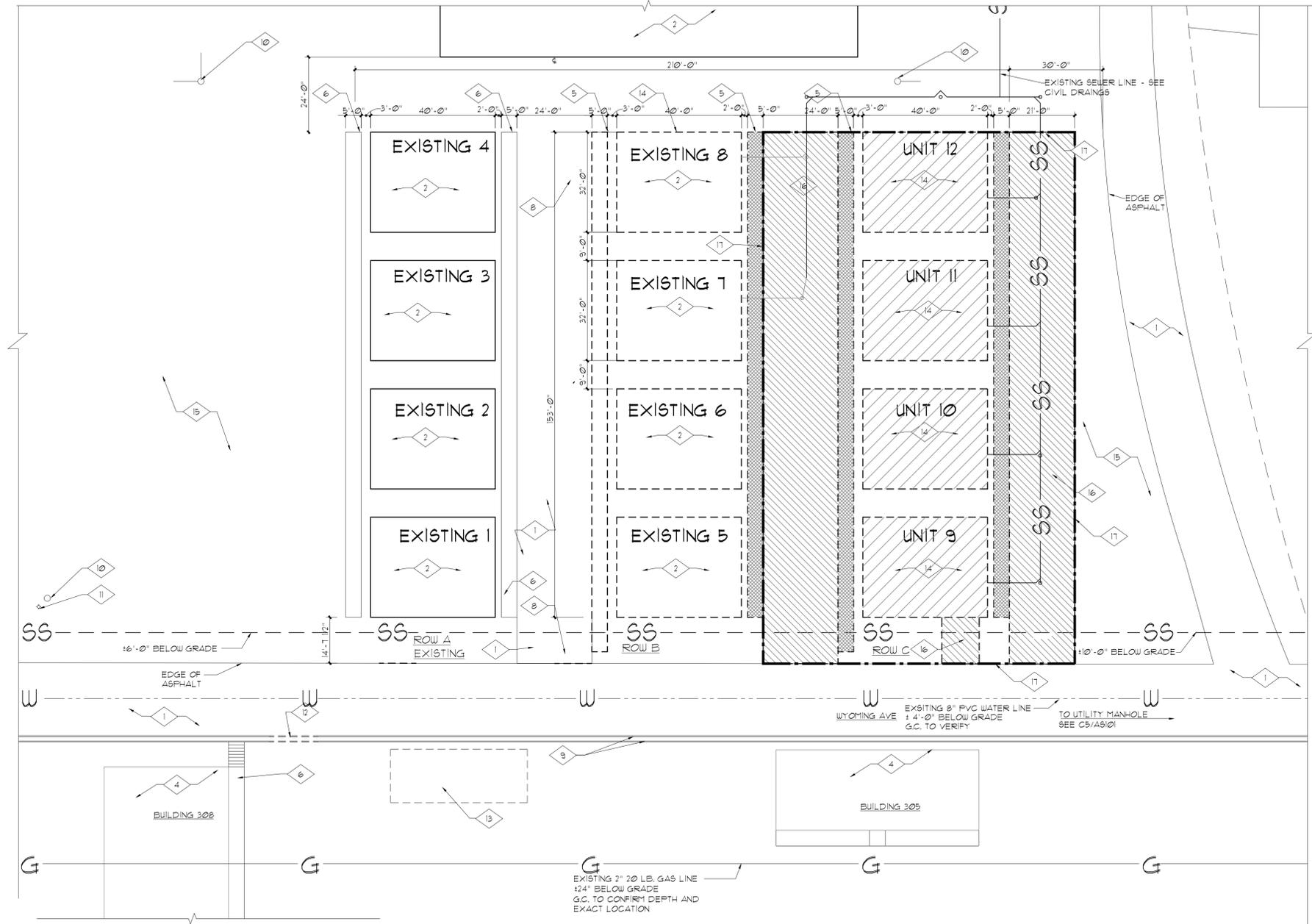
**PROJECT SCOPE:**

ALL UTILITY LATERALS AS REQUIRED FOR FULL CONNECTION FOR NEW MODULAR CLASSROOM BUILDING 9,10,11,12 AT ROW C AS INDICATED ON AS/AS102 - COORDINATE WITH CIVIL AND ELECTRICAL SITE PLANS. SEE CONSTRUCTION LIMIT LINE.

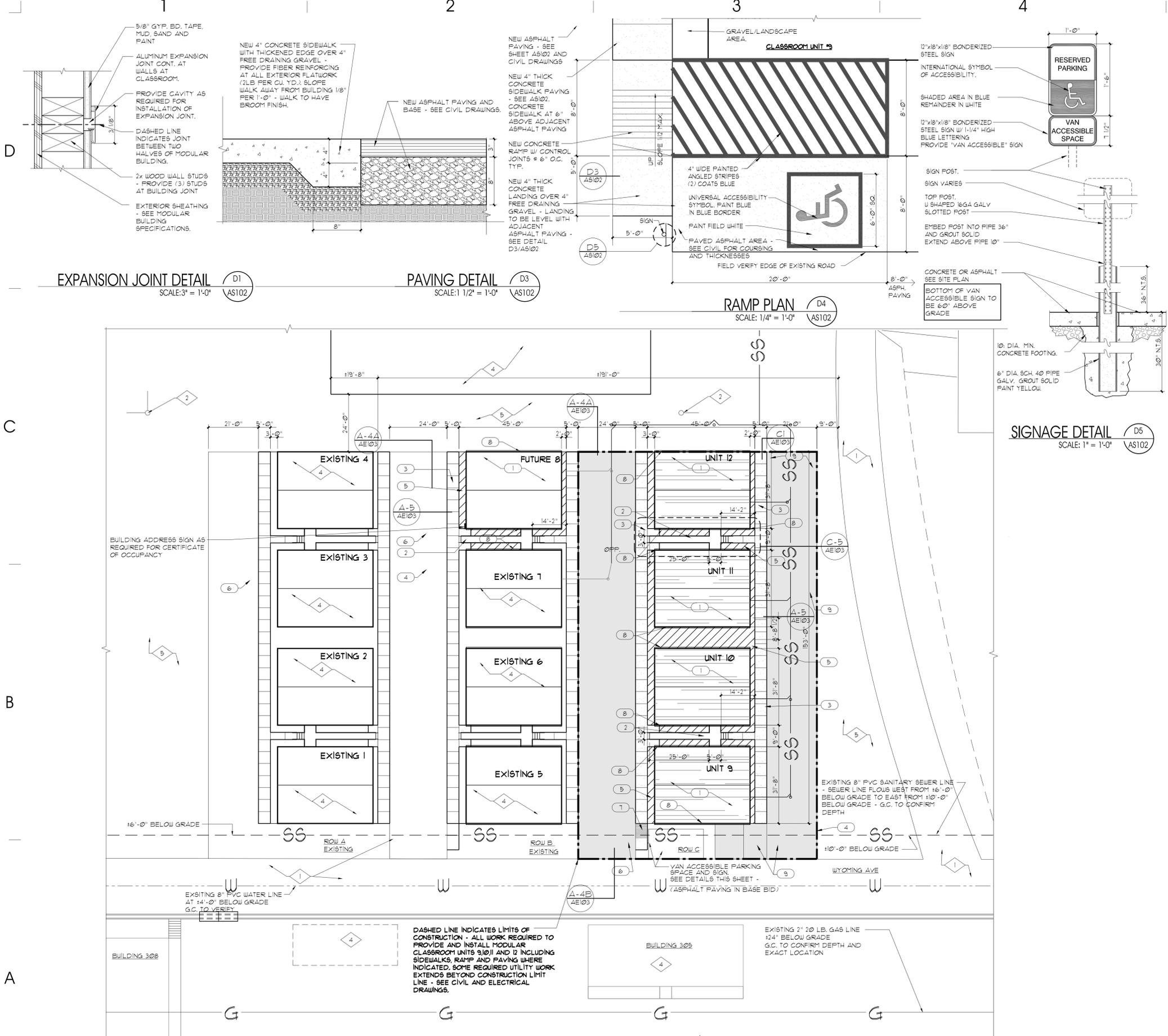
INSTALLATION OF (4) MODULAR CLASSROOM BUILDINGS AT ROW C - UNITS 9,10,11,12, ASSOCIATED SITE IMPROVEMENTS, STAIRS, RAMP AND REINFORCED CONCRETE FOOTING AND FOUNDATIONS FOR UNIT 9,10,11,12



OVERALL SITE PLAN C5 AS101



EXISTING CONDITIONS / SITE PREP PLAN A5 AS101



**GENERAL NOTES AND LEGEND:**  
FOR SHEET AS102 ONLY.

- SEE SHEET AE01 FOR GENERAL NOTES.
- SEE COVER SHEET FOR DRAWING INDEX.
- DO NOT SCALE DRAWINGS.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE BEGINNING WORK AND SHALL REPORT TO OWNER/ARCHITECT ANY ERRORS, INCONSISTENCIES OR OMISSIONS BEFORE BEGINNING WORK. SEE GENERAL NOTES AND SPECIFICATIONS.
- CONTRACTOR TO COORDINATE ALL CONSTRUCTION STAGING AREA(S) AND EMPLOYEE PARKING WITH NATIONAL GUARD PERSONNEL.
- CONTRACTOR SHALL INCLUDE AND PAY FOR ALL SOUTH VALLEY SEWER DISTRICT IMPACT FEES AND CONNECTION COSTS.

**EXISTING COND. KEYED NOTE LEGEND:**  
FOR SHEET AS102 ONLY.

- 1 EXISTING ASPHALT PAVING TO REMAIN.
- 2 EXISTING POWER POLE AND GUY-WIRE TO REMAIN - PROTECT.
- 3 EXISTING FIRE HYDRANT TO REMAIN - G.C. TO PROTECT DURING ALL PHASES OF DEMOLITION AND CONSTRUCTION.
- 4 EXISTING BUILDING TO REMAIN - PROTECT DURING ALL PHASES OF DEMOLITION AND CONSTRUCTION.
- 5 EXISTING GRAVEL AREA TO REMAIN.

**KEYED NOTE LEGEND:**  
FOR SHEET AS102 ONLY.

- 1 G.C. TO PURCHASE AND INSTALL NEW MODULAR CLASSROOM BUILDING - FINISH FLOOR AT 2'-11" MAX. ABOVE GRADE. NEW MODULAR CLASSROOMS TO MATCH EXISTING MODULAR CLASSROOMS AT ROW A/B. COORDINATE WITH CONSTRUCTION LIMIT LINE FOR THIS BID.
- 2 NEW PREFABRICATED STEEL RAMP AND STAIR PROVIDED BY MODULAR BUILDING MANUF. AND INSTALLED BY G.C. - G.C. TO PROVIDE 2'-0" x 7'-0" x 6" REINFORCED CONCRETE PAD 5'-0" O.C. MAX. SPACING ON EACH SIDE OF RAMP OVER COMPACTED SUBGRADE. G.C. TO COORDINATE EXACT LOCATIONS OF CONCRETE PADS WITH RAMP SUPPORTS. COORDINATE WITH CONSTRUCTION LIMIT LINE FOR THIS BID.
- 3 NEW 4" CONCRETE SIDEWALK OVER FREE DRAINING GRAVEL - SIDEWALK TO HAVE A BROOM FINISH. COORDINATE WITH CONSTRUCTION LIMIT LINE FOR THIS BID.
- 4 BACKFILL EXISTING GRAVEL AT AREAS OF UTILITY EXCAVATION TO MATCH EXISTING GRAVEL DEPTH. G.C. TO IMPORT NEW GRAVEL AS REQUIRED (NEW GRAVEL TO MATCH EXISTING). COORDINATE WITH CONSTRUCTION LIMIT LINE FOR THIS BID.
- 5 HATCH INDICATES NEW GRAVEL INFILL TO A DEPTH OF 16" - G.C. TO RE-USE GRAVEL ON SITE AND PROVIDE NEW AS REQUIRED. NEW GRAVEL TO MATCH EXISTING. COORDINATE WITH CONSTRUCTION LIMIT LINE FOR THIS BID.
- 6 NEW ASPHALT PAVING - SEE CIVIL FOR COURSING AND THICKNESS. COORDINATE WITH CONSTRUCTION LIMIT LINE FOR THIS BID.
- 7 NEW CONCRETE RAMP AND LANDING - SEE D5/AS102. COORDINATE WITH CIVIL DRAWINGS.
- 8 NEW RAIN GUTTER AND DOWNSPOUT TO MATCH EXISTING AT EXISTING RTI CLASSROOMS - COORDINATE DOWNSPOUT LOCATION WITH CIVIL DRAWINGS. COORDINATE WITH CONSTRUCTION LIMIT LINE FOR THIS BID.
- 9 NEW ASPHALT PAVING - ALT. BID #1 - SEE CIVIL FOR COURSING AND THICKNESS. COORDINATE WITH CONSTRUCTION LIMIT LINE FOR THIS BID.

**PROJECT SCOPE:**

ALL UTILITY LATERALS AS REQUIRED FOR FULL CONNECTION FOR NEW MODULAR CLASSROOM BUILDING 3101/12 AT ROW C AS INDICATED ON A5/AS102 - COORDINATE WITH CIVIL AND ELECTRICAL SITE PLANS. SEE CONSTRUCTION LIMIT LINE.

INSTALLATION OF (14) MODULAR CLASSROOM BUILDINGS AT ROW C - UNITS 9,10,11,12. ASSOCIATED SITE IMPROVEMENTS, STAIRS AND RAMP FOR UNITS 9,10,11,12. SEE CONSTRUCTION LIMIT LINE THIS SHEET.



703 east 1700 south  
salt lake city, utah 84105  
ph: 801.466.8818  
fx: 801.466.4411  
ajc@ajcarchitects.com

CONSULTANT Thomas & Kolkman  
**ELECTRICAL** Engineering Co., Inc.  
64 West 1700 South  
Salt Lake City, Utah 84115  
PH#: (801) 484-8161  
FAX: (801) 484-3538  
CONTACT: Roy Kolkman

CIVIL **Stantec Consulting**  
3995 South 700 East Suite 300  
Salt Lake City, Utah, 84107  
PH#: (801) 261-0090  
FAX: (801) 266-1671  
CONTACT: Ken Engstrom

**PROJECT DESCRIPTION**

**State of Utah**  
Department of Administrative Services  
**Division of Facilities Construction & Management**  
4110 State Office Building  
Salt Lake City, Utah 84114  
Phone: (801) 538 - 3018  
Fax: (801) 538 - 3267  
Internet: <http://www.dfm.utah.gov>

R.T.I CLASSROOMS  
9,10,11,12  
CAMP WILLIAMS  
DRAPER, UTAH

**SHEET NAME:**  
**NEW CONSTRUCTION SITE PLAN**

**REVISIONS**

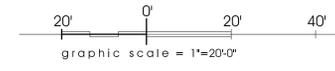
MARK	DATE	DESCRIPTION

**ISSUE DATA**

ISSUE DATE:	JUNE 2006
ISSUE TYPE:	CD
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CHECKED BY:	
CAD FILE NAME:	DFCM PROJECT # 05236480
STATE PROPERTY #	00000
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**SHEET NUMBER:**

**AS102**  
SHEET 8 OF 13



**MATERIAL / DESIGN GUIDELINES:**

BUILDING LENGTH: 40  
 BUILDING WIDTH: 32  
 TOTAL SQUARE FOOTAGE: 1280

**CODES:**  
 IBC 2003  
 OCCUPANCY CONST. TYPE  
 NEC  
 IPC  
 IMC

**DESIGN LOADS:**  
 FLOOR ROOF WIND UPLIFT

**CHASSIS:**  
 TYPE  
 BEAM SIZE  
 AXLES  
 TIRES  
 DETACHABLE  
 HITCH  
 BOTTOM BOARD

**FLOOR CONSTRUCTION:**  
 DECKING INSULATION VAPOR BARRIER

**FLOOR COVERING:**  
 FLOORING

**EXTERIOR WALL CONST:**  
 WALL STUDS INSULATION SHEATHING SIDING TRIM INTERIOR FINISH

**INTERIOR WALL CONSTRUCTION:**  
 LINEAL FEET CEILING HEIGHT WALL STUDS WALL COVERING INSULATION WAINSCOT

**ROOF CONSTRUCTION:**  
 TYPE JOIST OR RAFTER SHEATHING ROOF FINISH INSULATION INTERIOR FINISH EAVES AND OVERHANGS RAIN GUTTER AND DN. SPOUT. VENTING

**EXTERIOR DOOR:**  
 SIZE QUANTITY TYPE FRAME LOCKSET CLOSER FRAMIC CLOSER

**INTERIOR DOORS:**  
 SIZE QUANTITY TYPE FRAME OF JAMB HARDWARE

**WINDOWS:**  
 TYPE SIZE QUANTITY MINIBLINDS SECURITY SCREENS

**ELECTRICAL:**  
 PANEL SIZE SERVICE RACEWAY LIGHTS (INTERIOR) LIGHTS (EXTERIOR) EXIT SIGNS RECEPTACLES DUPLEX GFI

**HVAC:**  
 UNIT TYPE SIZE BRAND SUPPLY DUCT SIZE RETURN DUCT SIZE DIFFUSERS RETURN AIR GRILLES - TYP. AT END WALLS INSULATED CROSSOVERS EXHAUST FANS

**PLUMBING:**  
 WATER LINE DRAIN LINE WATER HEATER EMAX LAVATORY AND FAUCET WATER CLOSET ADA COMPLIANT ACCESSORIES FLOOR DRAIN (QTY. 2)

**RAMP / STAIR:**

SEE STRUCTURAL BASIS OF DESIGN SHEET AE002

OUTRIGGER @ 8'-0" O.C.  
 12" I" BEAM  
 3 EACH  
 6 EACH FLOOR  
 DETACHABLE  
 40 MIL PLASTIC

2x8 AT 16" O.C.  
 3/4" TAG FLYWOOD  
 R-19 FIBERGLASS  
 40 MIL PLASTIC

12"x12"x1/8" VCT TILE  
 CARPET TILE - SHAW CONSTELLATION  
 COLOR SELECTED BY OWNER STATE  
 CONTRACT MA 1863 CARPET  
 2 1/2" VINYL

2x4 WOOD @ 16" O.C.  
 R-II FIBERGLASS W/V.B.  
 NONE  
 1/16" ABITCO TI-II -PAINT  
 1/4" AND 1x6 FRO TRIM - PAINTED  
 5/8" GYPSUM - MATCHING BATTS

AS INDICATED ON PLAN  
 AS INDICATED ON PLAN  
 METAL OR WOOD  
 5/8" GYP. BD. PAINTED  
 NONE  
 IN RESTROOMS FRP (TO 4'-0")

PITCHED ROOF  
 MONO TRUSS @ 16" O.C.  
 1/16" OSB  
 235 LB ASPHALT SHINGLES  
 OVER 30 LB FELT  
 R-30 FIBERGLASS  
 T-GIRD 2x4 PANELS  
 3" ON SIDE WALLS  
 CONT. BOTH SIDES OF BLDG.  
 PER CODE

SEE HARDWARE SCHEDULE THIS SHEET  
 3'-0" x 6'-8" x 1 3/4" COMMERCIAL GRADE  
 2 EA.  
 ACTIVE STEEL ALUMINUM  
 LEVER LOCKSET - COORD. W/ UTNG.  
 PER HARDWARE SCHEDULE  
 YES  
 YES

SEE HARDWARE SCHEDULE THIS SHEET  
 3'-0" x 6'-8" x 1 3/4" COMMERCIAL GRADE  
 6 EA. (1 PAIR)  
 HOLLOW CORE WOOD - PAINT.  
 HOLLOW METAL - PAINT  
 LEVER STYLE LOCKSET

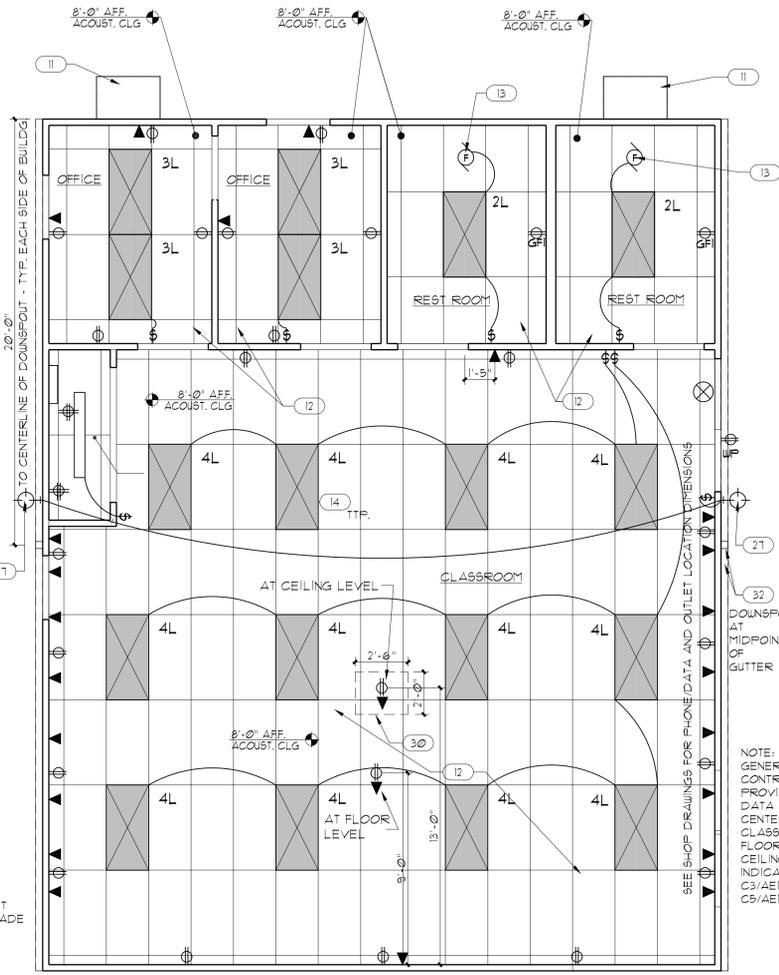
WHITE VINYL SLIDER CLEAR INSULATED GLASS  
 4'-0" x 3'-0"  
 YES  
 YES

SEE DIVISION 16000 OF PROJECT MANUAL  
 THROUGH FLOOR  
 RUN ELECTRICAL WIRING IN 3/4" MIN. CONDUIT WITH THIN  
 2x4 4 1x4 FLUORESCENT (SEE PLAN FOR QUANTITY AND LAMP COUNT) ELECTRONIC BALLAST AND 18 LAMPS  
 VANDAL TO WATT HIGH PRESSURE SODIUM YES - QUANTITY (2)  
 STD DUPLEX (11 TOTAL)  
 WEATHER PROOF DUPLEX (1 TOTAL)  
 GFCI DUPLEX (2 TOTAL)

WALL MOUNT - NATURAL GAS  
 1 TON PER 500 SQ. FT.  
 BRAND  
 28" - FIBERGLASS  
 AT END WALL  
 SIZE - 12x12 - QUANTITY 8 EA.  
 QUANTITY 1 EA.  
 8" QUANTITY 4 EA.  
 QUANTITY 2 EA.

COPPER 3/4" SERVICE  
 ABS (MAIN DRAIN SIZE 3")  
 6 GAL. - QUANTITY 2  
 WALL HUNG - QUANTITY 2  
 ELONGATED - QUANTITY 2  
 YES  
 SEE PLAN

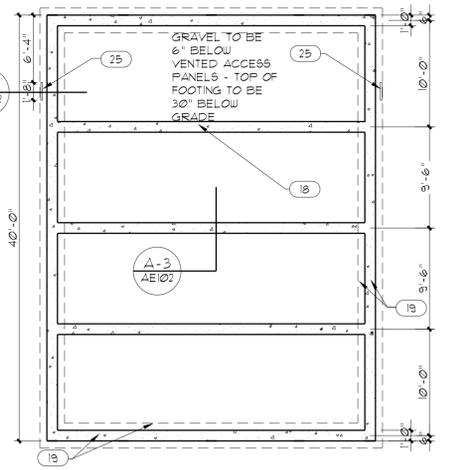
PRE FABRICATED METAL RAMP AND STAIRS - PROVIDE AND INSTALLED AS INDICATED ON PLANS



REFLECTED CEILING / POWER PLAN SCALE: 1/4" = 1'-0"

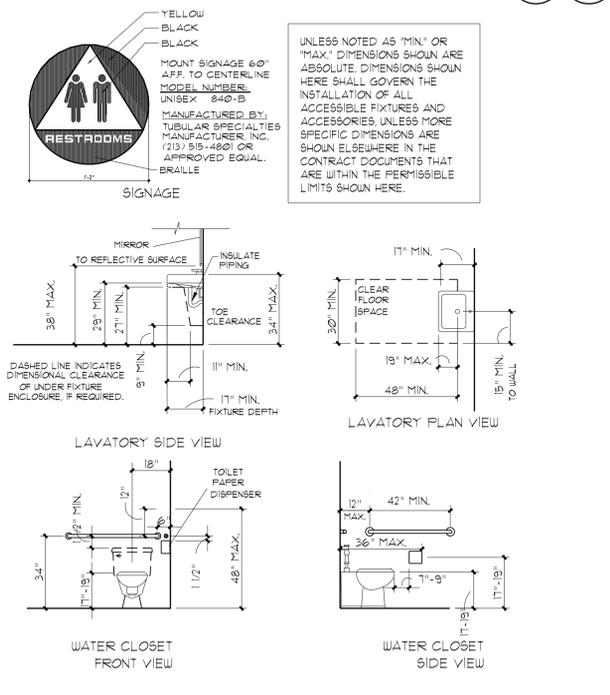
QTY	ITEM	MODEL	FINISH	MANUFACTURER
<b>GROUP 1 (FOR DOOR 1)</b>				
15 PAIR	BUTTS	BB5006 45 x 45	26D	BOMMER
1 EA.	PANIC	98L x 1C BEST CYL	26D	VON DUPRIN
1 EA.	CLOSER	F4041 SPRING CUSH	-	LCN
1 EA.	KICKPLATE	10" x 2" LDW	32D	QUALITY
1 EA.	THRESHOLD	425	-	NG
1 EA.	WEATHERSTRIP	160	-	NG
1 EA.	SWEEP	200	-	NG
<b>GROUP 2 (FOR DOORS 2, 3)</b>				
15 PAIR	BUTTS	BB5000 45 x 45	26D	BOMMER
1 EA.	PRIVACY	93K0-L-15CX	26D	BEST
1 EA.	KICKPLATE	10" x 2" LDW	32D	QUALITY
1 EA.	SWEEP	301	26D	QUALITY
<b>GROUP 3 (FOR DOORS 4, 5)</b>				
15 PAIR	BUTTS	BB5000 45 x 45	26D	QUALITY
1 EA.	LOCKSET	93K1-AB-15C	626	BEST
1 EA.	STOP	302	26D	QUALITY
<b>GROUP 4 (FOR DOOR 6)</b>				
3 PAIR	BUTTS	BB5000 45 x 45	26D	QUALITY
1 EA.	LOCKSET	93K1-AB-15C	626	BEST
2 EA.	STOP	302	26D	QUALITY
2 EA.	FLUSH BOLT	1398-12"	26D	QUALITY

NOTE: NEW MODULAR CLASSROOMS AND ALL ACCESSORIES TO MATCH EXISTING MODULAR CLASSROOMS AND ACCESSORIES UNO.



MODULAR BUILDING MANUFACTURER TO PROVIDE HOLD DOWNS TYP. AT 10'-0" O.C. AT PERIMETER. HOLD DOWNS TO BE SIZED FOR MAXIMUM PULL OUT FORCE OF 1500 LBS. - G.C. TO VERIFY WITH MODULAR BUILDING MANUFACTURER AND INSTALL.

MODULAR CLASSROOMS #10, 11, 12 FLOOR PLAN SCALE: 1/4" = 1'-0"



H.C. ACCESSIBLE FIXTURE GUIDELINES AND SIGNAGE SCALE: NO SCALE

**GENERAL NOTES AND LEGEND:**

- SEE SHEET AE001 FOR GENERAL NOTES.
- SEE COVER SHEET FOR DRAWING INDEX.
- DO NOT SCALE DRAWINGS.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE BEGINNING WORK AND SHALL REPORT TO OWNER / ARCHITECT ANY ERRORS, INCONSISTENCIES OR OMISSIONS BEFORE BEGINNING WORK. SEE GENERAL NOTES AND SPECIFICATIONS.
- GENERAL CONTRACTOR TO COORDINATE UTILITY CONNECTIONS AT BUILDINGS WITH MODULAR BUILDING MANUFACTURER

- WALL MOUNTED EXTERIOR LIGHTING
- 2x4 LAY-IN FLUORESCENT LIGHT FIXTURE  
SEE PLAN FOR LAMP COUNT  
SEE ELECTRICAL FOR EMERGENCY FIXTURES
- 2L (2) LAMP FIXTURE
- 3L (3) LAMP FIXTURE
- 4L (4) LAMP FIXTURE
- 4'-0" TWO LAMP SURFACE MOUNTED FLUORESCENT LIGHT FIXTURE
- TELEPHONE AND DATA JACK AT 14" AFF. TYP. IN CONDUIT UNLESS HEIGHT IS NOTED - PROVIDE (2) CAT 5E WIRES (8/100S OR EQ.) 12 FOOT PATCH PANELS AT EA. LOCATION
- SINGLE POLE SWITCH
- 10V DUPLEX CONV. OUTLET  
MOUNT @ 14" AFF. TYPICALLY UNO
- 10V FOURPLEX CONV. OUTLET  
MOUNT @ 14" AFF. TYPICALLY
- 10V DUPLEX CONV. OUTLET W/ GROUNDFAULT CIRCUIT INTERRUPTER  
MOUNT @ 38" AT BATHROOM VANITY
- WEATHERPROOF DUPLEX OUTLET
- EXIT LIGHT
- EXHAUST FAN

**KEYED NOTE LEGEND:**

- 2x4 WOOD STUD WALL - SPACE STUDS @ 16" O.C. MAX. SPACING. PROVIDE THERMAL BATT INSULATION AT EXTERIOR WALLS.
- 2x6 WOOD STUD WALL - SPACE STUDS @ 16" O.C. MAX. SPACING.
- 36" GRAB BAR - BOBRICK B-6806x36 OR APPROVED EQUAL.
- 42" GRAB BAR - BOBRICK B-6806x42 OR APPROVED EQUAL.
- H.C. ACCESSIBLE WATER CLOSET.
- H.C. ACCESSIBLE WALL HUNG LAVATORY AND FAUCETS.
- VINYL HORIZONTAL SLIDING WINDOW (WHITE) 4'-0" x 3'-0". ALL GLAZING WITHIN 24" OF DOOR TO BE TEMPERED.
- NEW 3'-0" x 6'-8" INSULATED METAL EXTERIOR DOOR FRAME AND HARDWARE, G.C. TO COORDINATE DOOR LOCATION ON SIDE OF BUILDING WITH RAMP. SEE AS02 FOR RAMP LOCATIONS.
- VCT TILE FLOORING.
- METAL THRESHOLD.
- LOCATION OF THROUGH WALL HVAC UNIT (GAS) - IF (1) UNIT PROVIDED, COORDINATE LOCATION WITH ARCHITECT.
- 2'-0" x 4'-0" SUSPENDED CEILING TILE AND GRID (PROVIDE VINYL FACED AT TOILET ROOMS).
- EXHAUST FAN.
- 4 LAMP RECESSED FLUORESCENT FIXTURE.
- NEW 3'-0" x 6'-8" SOLID CORE WOOD INTERIOR DOOR FRAME AND HARDWARE - DOORS TO BE COMMERCIAL GRADE 1 3/4" THICK.
- LOCATION OF ELECTRICAL PANEL.
- WATER HEATER.
- LINE OF CONT. GRADE BEAM - G.C. TO COORDINATE EXACT LOCATION WITH MODULAR BUILDING MANUF.
- CONTINUOUS REINFORCED CONCRETE FOOTING AND STEM WALL (AT PERIMETER ONLY).
- PREFABRICATED STEEL LANDING AND RAILING - SEE C5/AE102.
- TOILET PAPER DISPENSER - BOBRICK B-2888 OR APPROVED EQUAL.
- MIRROR - BOBRICK B-165-2436 OR APPROVED EQUAL (SIZE 24"x36").
- SOAP DISPENSER - BOBRICK B-2112 OR APPROVED EQUAL.
- PAPER TOWEL DISPENSER / WASTE RECEPTACLE - BOBRICK B-3909 OR APPROVED EQUAL.
- LOCATION OF 20"x20" VENTED ACCESS PANEL
- UNIBEX RESTROOM SIGN (PLASTIC SURFACE MOUNTED - SEE DETAIL A-4/AE101).
- EXTERIOR LIGHT FIXTURE.
- FLOOR DRAIN WITH TRAP PRIMER.
- REFER TO ELECTRICAL DRAWINGS FOR LOCATION OF TELEPHONE BOARD AND EQUIPMENT THIS AREA.
- AV SUPPORT - PROVIDE BLOCKING ABOVE CEILING AS REQUIRED BY MANUFACTURER. SUPPORT TO BE RATED FOR 100 LBS. - COORDINATE WEIGHT AND MOUNTING SYSTEM WITH MODULAR BUILDING MANUFACTURER.
- LOCATION OF FIRE EXTINGUISHER IN CABINET.
- NEW GUTTER AND DOWNSPOUT. SIZE AND COLOR TO MATCH EXISTING RTI CLASSROOMS - SEE CIVIL DRAWINGS. GUTTER TO RUN FULL LENGTH OF BUILDING.
- ACCESSIBLE WATER COOLER.
- CARPET FLOORING, W/ MTL. CARPET EDGE.

ARCHITECT PROJECT #0547

ajc architects  
 703 east 1700 south  
 salt lake city, utah 84105  
 ph: 801.466.8818  
 fx: 801.466.4411  
 ajc@ajcarchitects.com

CONSULTANT Thomas & Kolkman  
**ELECTRICAL** Engineering Co., Inc.  
 64 West 1700 South  
 Salt Lake City, Utah 84115  
 PH: (801) 484-8161  
 FAX: (801) 484-3538  
 CONTACT: Roy Kolkman

Stantec  
**CIVIL** Consulting  
 3995 South 700 East Suite 300  
 Salt Lake City, Utah, 84107  
 PH: (801) 261-0090  
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R.T.I CLASSROOMS  
 9,10,11,12  
 CAMP WILLIAMS  
 DRAPER, UTAH

SHEET NAME:  
 TYP. FLOOR PLAN  
 MATERIAL GUIDE  
 CEILING PLAN/ FTG.  
 AND FNDTN. PLAN  
 GRADE BEAM LAYOUT

REVISIONS  
 MARK DATE DESCRIPTION

ISSUE DATA  
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 STATE PROPERTY # 00000  
 COPYRIGHT: STATE OF UTAH

SHEET NUMBER:

**AE101**  
 SHEET 9 OF 13

MATERIAL GUIDELINES SCALE: NO SCALE

HARDWARE SCHEDULE SCALE: NO SCALE

GRADE BEAM / FOOTING AND FOUNDATION LAYOUT SCALE: 1/8" = 1'-0"

H.C. ACCESSIBLE FIXTURE GUIDELINES AND SIGNAGE SCALE: NO SCALE

**MATERIAL / DESIGN GUIDELINES:**

BUILDING LENGTH: 40  
 BUILDING WIDTH: 32  
 TOTAL SQUARE FOOTAGE: 1280

**CODES:**  
 IBC 2003  
 OCCUPANCY CONST. TYPE  
 NEC  
 IFC  
 IMC

**DESIGN LOADS:**

FLOOR ROOF WIND UPLIFT

**CHASSIS:**  
 TYPE  
 BEAM SIZE  
 AXLES  
 TIRES  
 HITCH  
 BOTTOM BOARD

**FLOOR CONSTRUCTION:**

DECKING INSULATION VAPOR BARRIER

**FLOOR COVERING:**

FLOORING

**EXTERIOR WALL CONST:**

WALL STUDS INSULATION SHEATHING SIDING TRIM INTERIOR FINISH

**INTERIOR WALL CONSTRUCTION:**

LINEAL FEET CEILING HEIGHT WALL STUDS WALL COVERING INSULATION WAINSCOT

**ROOF CONSTRUCTION:**

INSULATION INTERIOR FINISH EAVES AND OVERHANGS RAIN GUTTER AND DN. SPOUT. VENTING

**EXTERIOR DOOR:**

SIZE QUANTITY TYPE FRAME LOCKSET CLOSER FRAMIC CLOSER

**INTERIOR DOORS:**

SIZE QUANTITY TYPE FRAME OF JAMB HARDWARE

**WINDOWS:**

TYPE SIZE QUANTITY MINIBLINDS SECURITY SCREENS

**ELECTRICAL:**

PANEL SIZE SERVICE RACEWAY LIGHTS (INTERIOR) LIGHTS (EXTERIOR) EXIT SIGNS RECEPTACLES DUPLEX GFI

**HVAC:**

UNIT TYPE SIZE BRAND SUPPLY DUCT SIZE RETURN DUCT SIZE DIFFUSERS RETURN AIR GRILLES - TYP. AT END WALLS INSULATED CROSSOVERS EXHAUST FANS

**PLUMBING:**

WATER LINE DRAIN LINE WATER HEATER EMAX LAVATORY AND FAUCET WATER CLOSET ADA COMPLIANT ACCESSORIES FLOOR DRAIN (QTY. 2)

**RAMP / STAIR:**

PRE FABRICATED METAL RAMP AND STAIRS - PROVIDE AND INSTALLED AS INDICATED ON PLANS

SEE STRUCTURAL BASIS OF DESIGN SHEET AE002

OUTRIGGER @ 8'-0" O.C.  
 12" I" BEAM  
 3 EACH  
 6 EACH FLOOR  
 DETACHABLE  
 40 MIL PLASTIC

2x8 AT 16" O.C.  
 3/4" T&G FLYWOOD  
 R-19 FIBERGLASS  
 40 MIL PLASTIC

12"x12"x1/8" VCT TILE  
 CARPET TILE - SHAW CONSTELLATION  
 COLOR SELECTED BY OWNER STATE CONTRACT # MA 1863 CARPET  
 2 1/2" VINYL

2x4 WOOD @ 16" O.C.  
 R-11 FIBERGLASS W.V.B.  
 NONE  
 7/16" ABITCO TI-11 - PAINT  
 1/4" AND 1/8" PRO TRIM - PAINTED  
 5/8" GYPSUM - MATCHING BATTS

AS INDICATED ON PLAN  
 AS INDICATED ON PLAN  
 METAL OR WOOD  
 5/8" GYP. BD. PAINTED  
 NONE  
 IN RESTROOMS FRP (TO 4'-0")

PITCHED ROOF  
 MONO TRUSS AT 16" O.C.  
 1/16" OSB  
 235 LB ASPHALT SHINGLES  
 OVER 30 LB FELT  
 R-30 FIBERGLASS  
 T-GRID 2x4 PANELS  
 3" ON SIDE WALLS  
 CONT. BOTH SIDES OF BLDG.  
 PER CODE

SEE HARDWARE SCHEDULE THIS SHEET  
 3'-0" x 6'-8" x 1 3/4" COMMERCIAL GRADE  
 2 EA.  
 ACTIVE STEEL ALUMINUM  
 LEVER LOCKSET - COORD. W/ UTNG.  
 PER HARDWARE SCHEDULE  
 YES  
 YES

SEE HARDWARE SCHEDULE THIS SHEET  
 3'-0" x 6'-8" x 1 3/4" COMMERCIAL GRADE  
 6 EA. (1 PAIR)  
 HOLLOW CORE WOOD - PAINT.  
 HOLLOW METAL - PAINT  
 LEVER STYLE LOCKSET

WHITE VINYL SLIDER CLEAR INSULATED GLASS  
 4'-0" x 3'-0"  
 YES  
 YES

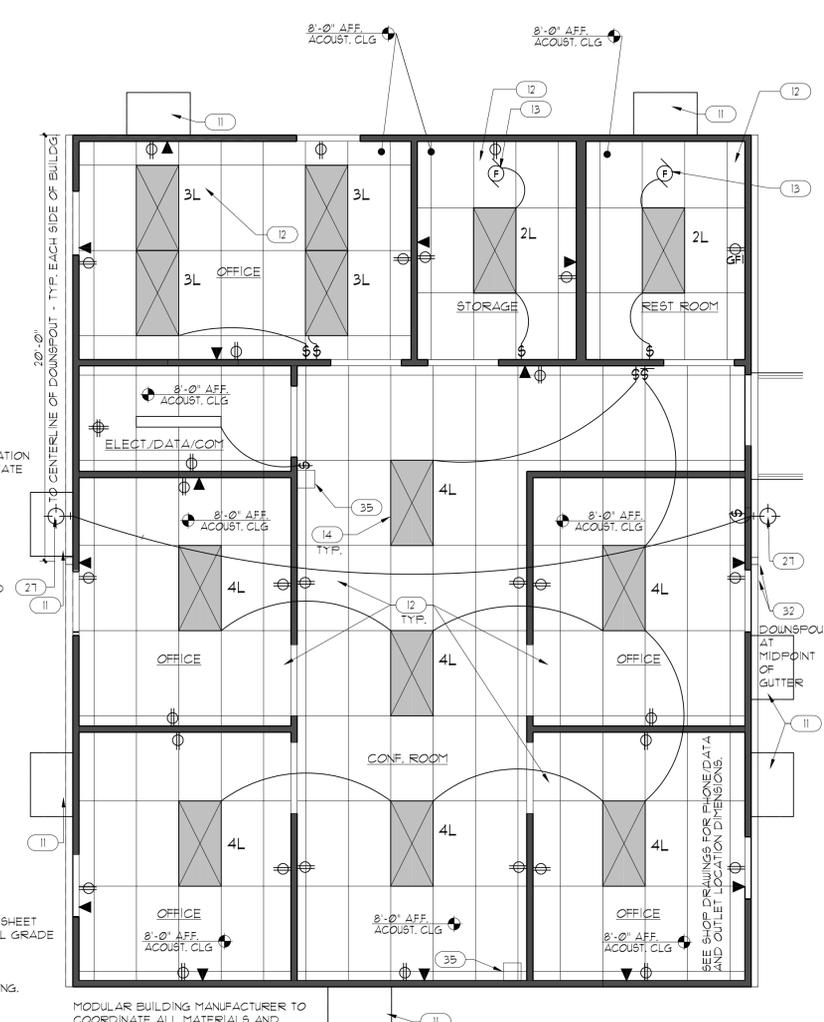
SEE DIVISION 16000 OF PROJECT MANUAL  
 100 AMP  
 THROUGH FLOOR  
 RUN ELECTRICAL WIRING IN 3/4" MIN. CONDUIT WITH THIN  
 2x4 4 1x4 FLOURESCENT (SEE PLAN FOR QUANTITY AND LAMP COUNT) ELECTRONIC BALLAST AND 18 LAMPS  
 VANDAL TO WATT HIGH PRESSURE SODIUM  
 YES - QUANTITY (2)  
 STD DUPLEX (11 TOTAL)  
 WEATHER PROOF DUPLEX (1 TOTAL)  
 GFCI DUPLEX (2 TOTAL)

WALL MOUNT - NATURAL GAS  
 1 TON PER 500 Sq. Ft.  
 BRAND  
 8" DIA. - FIBERGLASS  
 AT END WALL  
 SIZE - 12x12 - QUANTITY 8 EA.  
 QUANTITY 1 EA.

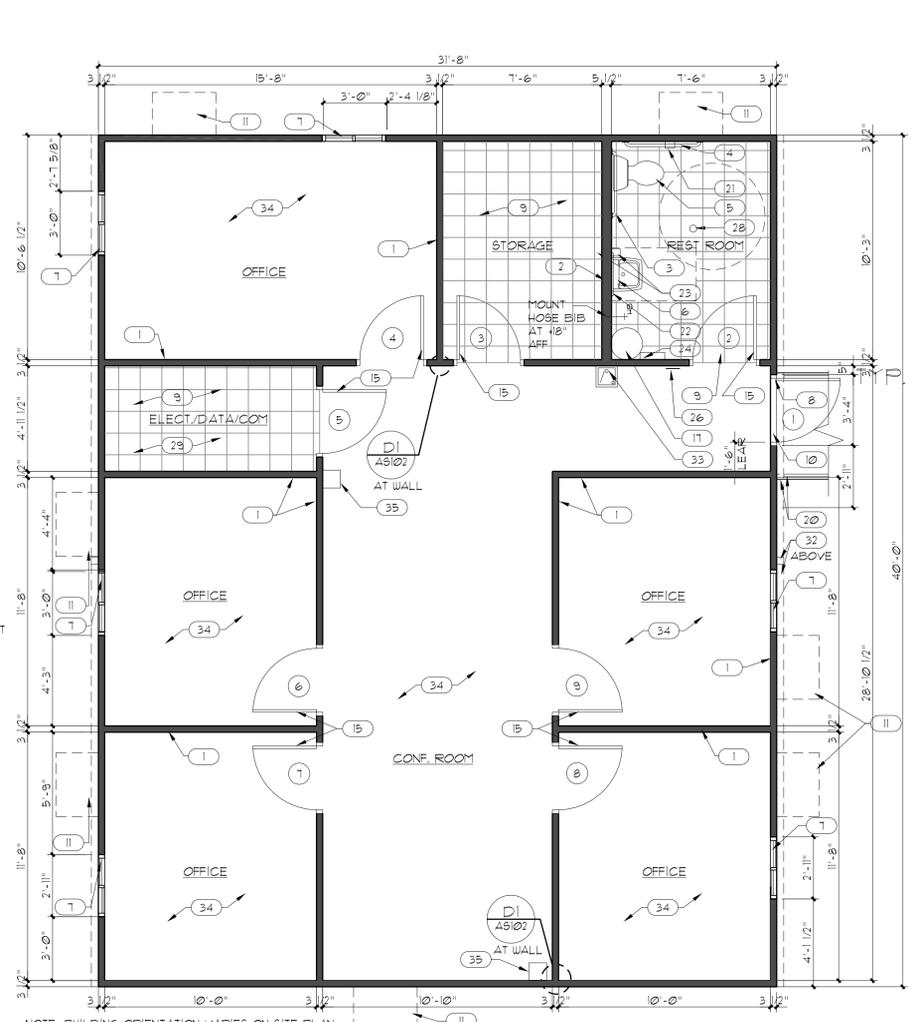
8" QUANTITY 4 EA.  
 QUANTITY 2 EA.

COPPER 3/4" SERVICE  
 ABS (MAIN DRAIN SIZE 3")  
 6 GAL. - QUANTITY 2  
 WALL HUNG - QUANTITY 2  
 ELONGATED - QUANTITY 2  
 YES  
 SEE PLAN

PRE FABRICATED METAL RAMP AND STAIRS - PROVIDE AND INSTALLED AS INDICATED ON PLANS



REFLECTED CEILING / POWER PLAN SCALE: 1/4" = 1'-0" C3 AE102

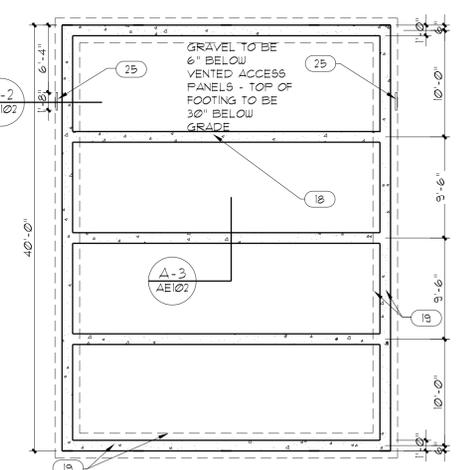


MODULAR CLASSROOM #9 FLOOR PLAN SCALE: 1/4" = 1'-0" C5 AE102

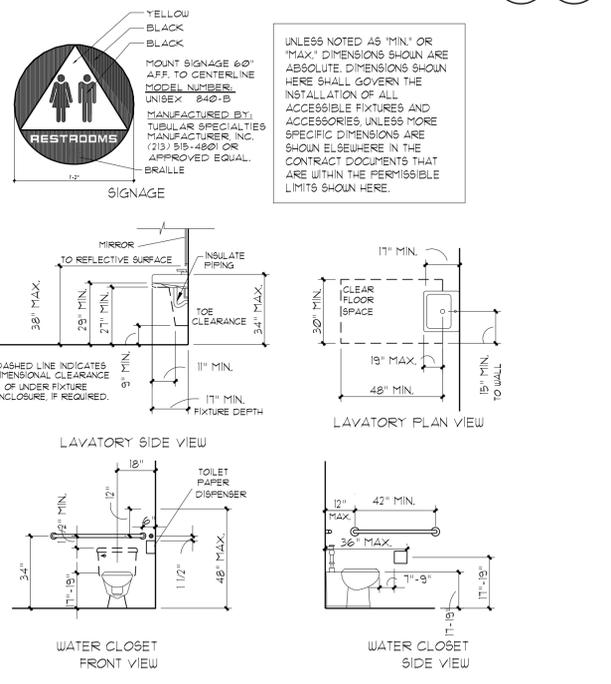
**HARDWARE SCHEDULE**

QTY	ITEM	MODEL	FINISH	MANUFACTURER
<b>GROUP 1 (FOR DOOR 1)</b>				
15 PAIR	BUTTS	BB5006 45 x 45	26D	BOMMER
1 EA.	PANIC	98L x 10 BEST CYL	26D	VON DUPRIN
1 EA.	CLOSER	F4041 SPRING CUSH	-	LCN
1 EA.	KICKPLATE	10" x 21" LDW	32D	QUALITY
1 EA.	THRESHOLD	425	-	NG
1 EA.	WEATHERSTRIP	160	-	NG
1 EA.	SWEEP	200	-	NG
<b>GROUP 2 (FOR DOORS 2, 3)</b>				
15 PAIR	BUTTS	BB5000 45 x 45	26D	BOMMER
1 EA.	PRIVACY	93KO-L-15CX	26D	BEST
1 EA.	KICKPLATE	10" x 21" LDW	32D	QUALITY
1 EA.	SWEEP	302	26D	QUALITY
<b>GROUP 3 (FOR DOORS 4, 6, 7, 8, 9)</b>				
15 PAIR	BUTTS	BB5000 45 x 45	26D	QUALITY
1 EA.	LOCKSET	93K1 AB 15C	626	BEST
1 EA.	STOP	302	26D	QUALITY
<b>GROUP 4 (FOR DOOR 5)</b>				
15 PAIR	BUTTS	BB5000 45 x 45	26D	QUALITY
1 EA.	LOCKSET	93K1-AB-15C	626	BEST
1 EA.	STOP	302	26D	QUALITY
1 EA.	FLUSH BOLT	139B-12"	26D	QUALITY

NOTE: NEW MODULAR CLASSROOMS AND ALL ACCESSORIES TO MATCH EXISTING MODULAR CLASSROOMS AND ACCESSORIES UNO.



MODULAR BUILDING MANUFACTURER TO PROVIDE HOLD DOWNS TYP. AT 10'-0" O.C. AT PERIMETER. HOLD DOWNS TO BE SIZED FOR MAXIMUM PULL OUT FORCE OF 1500 LBS. - G.C. TO VERIFY WITH MODULAR BUILDING MANUFACTURER AND INSTALL.



H.C. ACCESSIBLE FIXTURE GUIDELINES AND SIGNAGE SCALE: NO SCALE AE102

**GENERAL NOTES AND LEGEND:**

- SEE SHEET AE001 FOR GENERAL NOTES.
  - SEE COVER SHEET FOR DRAWING INDEX.
  - DO NOT SCALE DRAWINGS.
  - CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE BEGINNING WORK AND SHALL REPORT TO OWNER / ARCHITECT ANY ERRORS, INCONSISTENCIES OR OMISSIONS BEFORE BEGINNING WORK. SEE GENERAL NOTES AND SPECIFICATIONS.
  - GENERAL CONTRACTOR TO COORDINATE UTILITY CONNECTIONS AT BUILDING WITH MODULAR BUILDING MANUFACTURER
- WALL MOUNTED EXTERIOR LIGHTING
- 2x4 LAY-IN FLUORESCENT LIGHT FIXTURE  
 SEE PLAN FOR LAMP COUNT  
 SEE ELECTRICAL FOR EMERGENCY FIXTURES
- 2L  
 3L  
 4L
- 4'-0" TWO LAMP SURFACE MOUNTED FLUORESCENT LIGHT FIXTURE
- TELEPHONE AND DATA JACK AT 14" AFF. TYP. IN CONDUIT UNLESS HEIGHT IS NOTED - PROVIDE (2) CAT 5-E WIRES (SIEMENS OR EQ.) 1/2 PORT PATCH PANELS AT EQ. LOCATION
- SINGLE POLE SWITCH
- 110V DUPLEX CONV. OUTLET  
 MOUNT @ 14" AFF. TYPICALLY UNO
- 110V FOURPLEX CONV. OUTLET  
 MOUNT @ 14" AFF. TYPICALLY UNO
- 110V DUPLEX CONV. OUTLET W/ GROUNDFAULT CIRCUIT INTERRUPTER  
 MOUNT @ 38" AT BATHROOM VANITY
- WEATHERPROOF DUPLEX OUTLET
- EXIT LIGHT EXHAUST FAN

**KEYED NOTE LEGEND:**

- 2x4 WOOD STUD WALL - SPACE STUDS AT 16" O.C. MAX. SPACING. PROVIDE THERMAL BATT INSULATION AT EXTERIOR WALLS.
- 2x6 WOOD STUD WALL - SPACE STUDS AT 16" O.C. MAX. SPACING.
- 36" GRAB BAR - BOBRICK B-6206x36 OR APPROVED EQUAL.
- 42" GRAB BAR - BOBRICK B-6206x42 OR APPROVED EQUAL.
- H.C. ACCESSIBLE WATER CLOSET.
- H.C. ACCESSIBLE WALL HUNG LAVATORY AND FAUCETS.
- VINYL HORIZONTAL SLIDING WINDOW (WHITE) 4'-0" x 3'-0". ALL GLAZING WITHIN 24" OF DOOR TO BE TEMPERED.
- NEW 3'-0" x 6'-8" INSULATED METAL EXTERIOR DOOR FRAME AND HARDWARE. G.C. TO COORDINATE DOOR LOCATION ON SIDE OF BUILDING WITH RAMP. SEE AE201 FOR RAMP LOCATIONS.
- VCT TILE FLOORING.
- METAL THRESHOLD.
- LOCATION OF THROUGH WALL HVAC UNIT (GAS) - IF (1) UNIT PROVIDED, COORDINATE LOCATION WITH ARCHITECT.
- 2'-0" x 4'-0" SUSPENDED CEILING TILE AND GRID (PROVIDE VINYL FACED AT TOILET ROOMS).
- EXHAUST FAN.
- 4 LAMP RECESSED FLUORESCENT FIXTURE.
- NEW 3'-0" x 6'-8" SOLID CORE WOOD INTERIOR DOOR FRAME AND HARDWARE - DOORS TO BE COMMERCIAL GRADE 1 3/4" THICK.
- LOCATION OF ELECTRICAL PANEL.
- WATER HEATER.
- LINE OF CONT. GRADE BEAM - G.C. TO COORDINATE EXACT LOCATION WITH MODULAR BUILDING MANUF.
- CONTINUOUS REINFORCED CONCRETE FOOTING AND STEM WALL (AT PERIMETER ONLY).
- PREFABRICATED STEEL LANDING AND RAILING - SEE C5/AE102.
- TOILET PAPER DISPENSER - BOBRICK B-2828 OR APPROVED EQUAL.
- MIRROR - BOBRICK B-165-2436 OR APPROVED EQUAL (SIZE 24"x36").
- SOAP DISPENSER - BOBRICK B-2112 OR APPROVED EQUAL.
- PAPER TOWEL DISPENSER / WASTE RECEPTACLE - BOBRICK B-3509 OR APPROVED EQUAL.
- LOCATION OF 20"x20" VENTED ACCESS PANEL
- UNISEX RESTROOM SIGN (PLASTIC SURFACE MOUNTED - SEE DETAIL A-4/AE102).
- EXTERIOR LIGHT FIXTURE.
- FLOOR DRAIN WITH TRAP PRIMER.
- REFER TO ELECTRICAL DRAWINGS FOR LOCATION OF TELEPHONE BOARD AND EQUIPMENT IN THIS AREA.
- AV SUPPORT - PROVIDE BLOCKING ABOVE CEILING AS REQUIRED BY MANUFACTURER. SUPPORT TO BE RATED FOR 100 LBS. - COORDINATE WEIGHT AND MOUNTING SYSTEM WITH MODULAR BUILDING MANUFACTURER.
- LOCATION OF FIRE EXTINGUISHER IN CABINET.
- NEW GUTTER AND DOWNSPOUT. SIZE AND COLOR TO MATCH EXISTING RTI CLASSROOMS - SEE CIVIL DRAWINGS. GUTTER TO RUN FULL LENGTH OF BUILDING.
- ACCESSIBLE WATER COOLER.
- CARPET FLOORING, W/ MTL. CARPET EDGE.
- FIRE EXTINGUISHER & HOLDER COORD. W/ UTNG. PROJ. MGR. FOR LOCATION.

ARCHITECT PROJECT #0547

ajc architects

703 east 1700 south  
 salt lake city, utah 84105  
 ph: 801.466.8818  
 fx: 801.466.4411  
 ajc@ajcarchitects.com

CONSULTANT Thomas & Kolkman  
**ELECTRICAL Engineering Co., Inc.**  
 64 West 1700 South  
 Salt Lake City, Utah 84115  
 PH#: (801) 484-8161  
 FAX: (801) 484-3538  
 CONTACT: Roy Kolkman

Stantec  
**Consulting**  
 3995 South 700 East Suite 300  
 Salt Lake City Utah, 84107  
 PH#: (801) 261-0090  
 FAX: (801) 266-1671  
 CONTACT: Ken Engstrom

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**State of Utah**  
 Department of Administrative Services

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 Construction & Management  
 4110 State Office Building  
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 Phone: (801) 538 - 3018  
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R.T.I CLASSROOMS  
 9,10,11,12  
 CAMP WILLIAMS  
 DRAPER, UTAH

SHEET NAME:  
**FLOOR PLAN MATERIAL GUIDE  
 CEILING PLAN/ FTG.  
 AND FNDTN. PLAN  
 GRADE BEAM LAYOUT**

REVISIONS  
 MARK DATE DESCRIPTION

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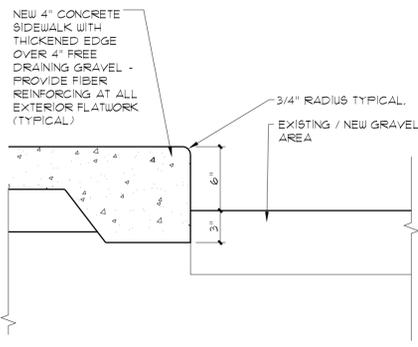
SHEET NUMBER:  
**AE102**  
 SHEET 10 OF 13

MATERIAL GUIDELINES SCALE: NO SCALE A1 AE102

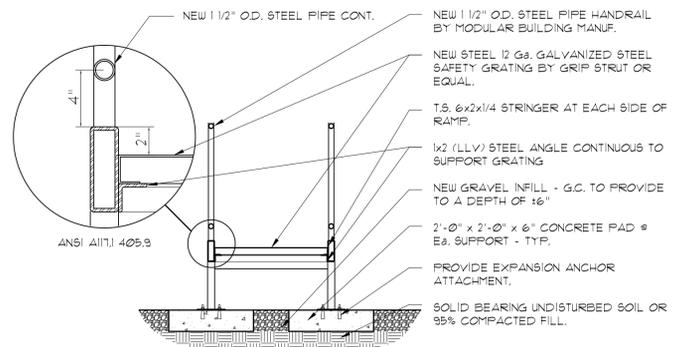
HARDWARE SCHEDULE SCALE: NO SCALE A2 AE102

GRADE BEAM / FOOTING AND FOUNDATION LAYOUT SCALE: 1/8" = 1'-0" A3 AE102

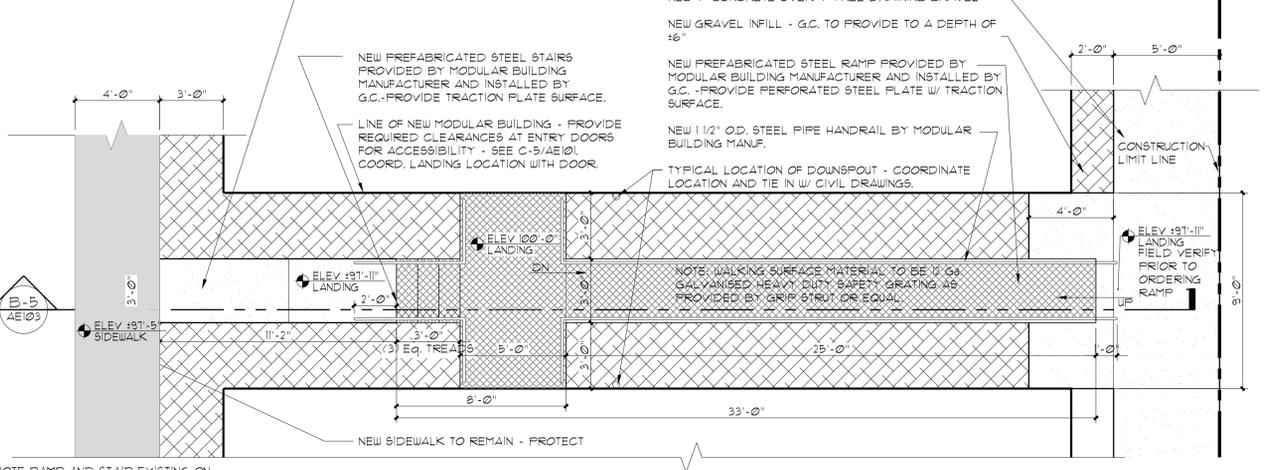
H.C. ACCESSIBLE FIXTURE GUIDELINES AND SIGNAGE SCALE: NO SCALE A4 AE102



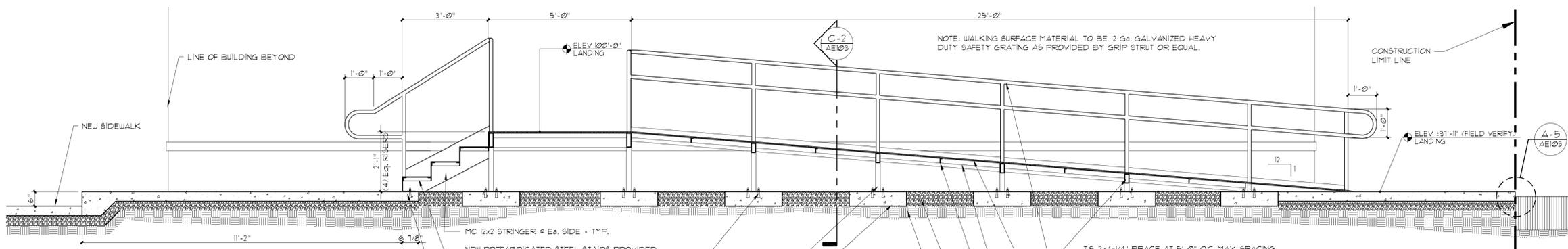
**DETAIL @ CURB** (C-1)  
SCALE: 1 1/2" = 1'-0"  
AE103



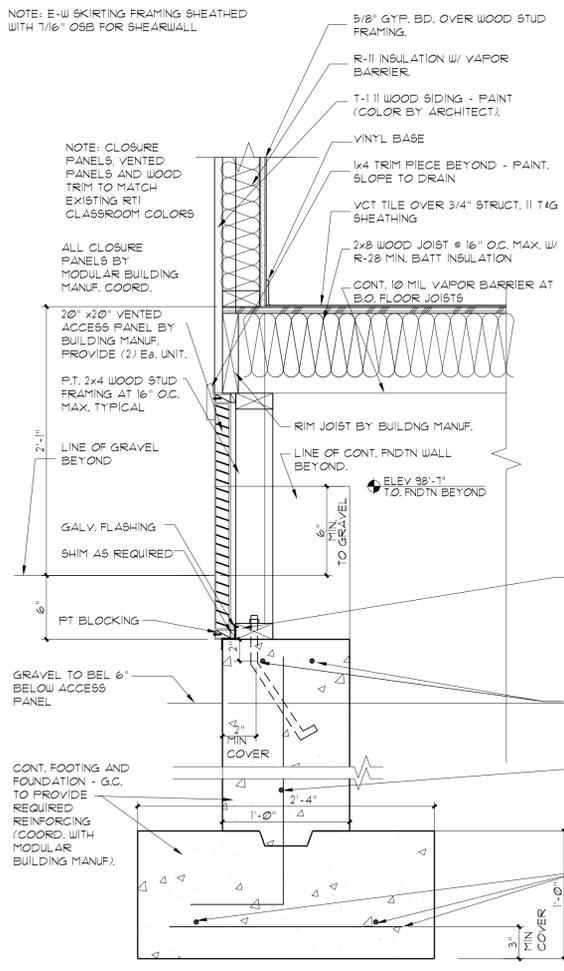
**RAMP SECTION** (C-2)  
SCALE: 1/2" = 1'-0"  
AE103



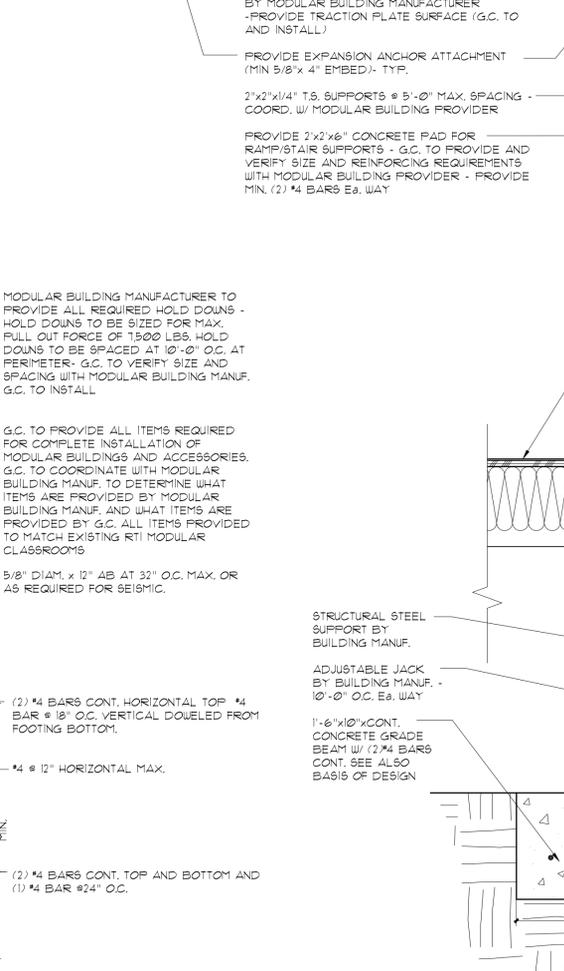
**LARGE SCALE PLAN AT RAMP** (C-5)  
SCALE: 1/4" = 1'-0"  
AE103 OPP.



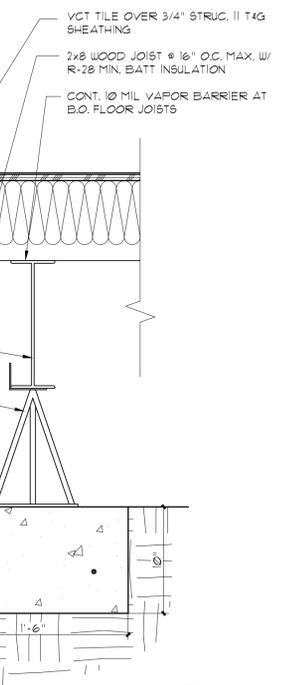
**RAMP SECTION** (B-5)  
SCALE: 1/2" = 1'-0"  
AE103 OPP.



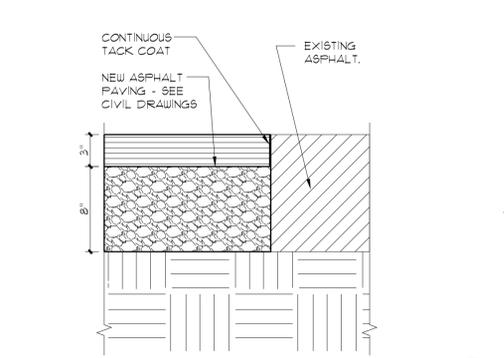
**DETAIL @ PERIMETER** (A-2)  
SCALE: 1 1/2" = 1'-0"  
AE103



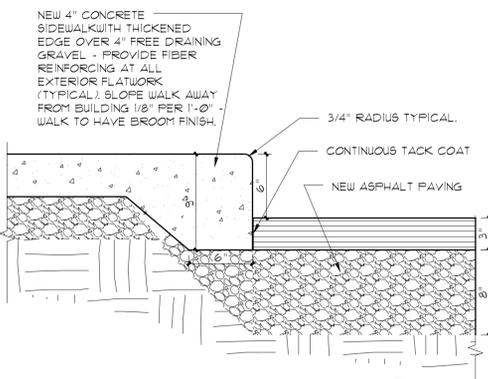
**DETAIL @ SUPPORT** (A-3)  
SCALE: 1 1/2" = 1'-0"  
AE103



**DETAIL @ NEW PAVEMENT TO GRAVEL** (A-4A)  
SCALE: 1 1/2" = 1'-0"  
AE103



**DETAIL @ NEW TO EXIST. PAVEMENT** (A-4B)  
SCALE: 1 1/2" = 1'-0"  
AE103



**DETAIL @ WALK EDGE** (A-5)  
SCALE: 1 1/2" = 1'-0"  
AE103

ARCHITECT PROJECT #0547  
ajc architects  
703 east 1700 south  
salt lake city, utah 84105  
ph: 801.466.8818  
fx: 801.466.4411  
ajc@ajcarchitects.com

CONSULTANT Thomas & Kolkman  
ELECTRICAL Engineering Co., Inc.  
64 West 1700 South  
Salt Lake City, Utah 84115  
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CONTACT: Roy Kolkman

CIVIL Startec Consulting  
3995 South 700 East Suite 300  
Salt Lake City Utah, 84107  
PH#: (801) 261-0090  
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R.T.I CLASSROOMS  
9,10,11,12  
CAMP WILLIAMS  
DRAPER, UTAH

SHEET NAME:  
RAMP PLAN,  
SECTIONS  
DETAILS

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SHEET NUMBER:  
**AE103**  
SHEET 11 OF 13

**GENERAL ELECTRICAL NOTES:**

- BURY ALL UNDERGROUND CONDUITS MINIMUM 34" BELOW FINISH GRADE WITH RED MAGNETIC WARNING TAPE STATING "CAUTION - BURIED ELECTRICAL" 12 INCHES ABOVE THE CONDUIT.
- USE GALVANIZED RIGID STEEL CONDUIT (GRC) FOR ALL CONDUIT THROUGH GRADE AND ELBOWS IN PVC CONDUIT RUNS. CORROSION PROTECT GRC CONDUIT IN ACCORDANCE WITH SPECIFICATION SECTION 16110.
- COORDINATE ELECTRICAL SITE WORK WITH ARCHITECTURAL SITE PLANS, SHEET AS101 & AS102, GENERAL CONTRACTOR, MECHANICAL CONTRACTOR AND LANDSCAPING CONTRACTOR. INSTALL UNDERGROUND CONDUITS SUCH THAT CONDUITS WILL NOT BE DAMAGED BY SUBSEQUENT INSTALLATION OF OTHER UTILITIES, TREES, SHRUBBERY, ETC.
- LOCATIONS OF EXISTING ELECTRICAL EQUIPMENT, CONDUCTORS, CONDUITS, ETC. ARE BASED ON FIELD OBSERVATION OF EXISTING SURFACE CONDITIONS. FIELD VERIFY EXISTING LOCATIONS AND IMMEDIATELY NOTIFY THE ARCHITECT OF ANY DISCREPANCIES WHICH MAY ADVERSELY AFFECT COMPLETION OF THE WORK.
- POWER OUTAGES TO EXISTING BUILDINGS WHICH REMAIN WILL NOT BE ALLOWED EXCEPT AS DIRECTED BY OWNER. SUBMIT WRITTEN REQUESTS FOR POWER OUTAGES TO THE OWNER MINIMUM SEVEN (7) DAYS PRIOR TO ANY PROPOSED POWER OUTAGES. DO NOT TAKE ANY POWER OUTAGES WITHOUT OWNER'S PERMISSION.

**ELECTRICAL KEYED NOTES:**

- FOR SHEET E-101 ONLY
- (E1) EXISTING POWER POLE TO REMAIN.
  - (E2) EXISTING 12410/1200 VOLT, 3 PHASE, 4 WIRE, 1% ACSR, OVERHEAD PRIMARY POWER LINE TO REMAIN.
  - (E3) EXISTING 15 KVA POLE MOUNT TRANSFORMER, 1200 V TO 120/240 V, 1 $\phi$ , TO REMAIN.
  - (E4) EXISTING 3 #00 KCM, 4" PVC UNDERGROUND TO REMAIN FROM EXISTING POLE MOUNT TRANSFORMER TO EXISTING BLDG 1 METERING SWITCHGEAR.
  - (E5) EXISTING BLDG 1 METERING SWITCHGEAR, 120/240 V, 1 $\phi$ , SERVING BUILDINGS 1 THRU 6 TO REMAIN.
  - (E6) EXISTING BUILDING ELECTRICAL PANEL, 100 AMPERE, 120/240 V, 1 $\phi$ , TO REMAIN.
  - (E7) EXISTING 2" PVC UNDERGROUND ELECTRICAL SERVICE FROM METERING SWITCHGEAR TO EXISTING BUILDING PANELS TO REMAIN.
  - (E8) EXISTING 15 KVA POLE MOUNT TRANSFORMER, 1200 V TO 120/240 V, 1 $\phi$ , TO REMAIN.
  - (E9) EXISTING OVERHEAD SECONDARY ELECTRICAL SERVICE FOR EXISTING STORAGE BUILDING TO REMAIN.
  - (E10) EXISTING 3 #00 KCM, 4" PVC UNDERGROUND TO REMAIN FROM EXISTING POLE MOUNT TRANSFORMER TO EXISTING BLDG 1 METERING SWITCHGEAR.
  - (E11) EXISTING BLDG 1 METERING SWITCHGEAR, 120/240 V, 1 $\phi$ , TO SERVE BUILDINGS 7 THRU 12 TO REMAIN.
  - (E12) NEW ELECTRICAL PANELBOARD FURNISHED WITH NEW CLASSROOM BUILDING, 100 AMPERE, 120/240 V, 1 $\phi$ , 3W, LOCATED IN BUILDING TELECOMM ROOM. SEE MODULAR CLASSROOM TYPICAL FLOOR PLAN, SHEET AE101 FOR EXACT LOCATION.
  - (E13) EXISTING 2" PVC UNDERGROUND CONDUIT FROM BUILDING 1 METERING SWITCHGEAR STUBBED TO MINIMUM 5 FT BEYOND EXISTING SIDEWALK. EXTEND CONDUIT TO NEW ELECTRICAL PANELS IN NEW BUILDINGS 9, 10, 11, 4, 12.
  - (E14) PROVIDE NEW CONDUCTORS IN EXTENDED 2" PVC UNDERGROUND CONDUIT AS SHOWN ON POWER RISER DIAGRAM, SHEET E-601, COMPLETE FROM BUILDING 1 METERING SWITCHGEAR TO NEW ELECTRICAL PANEL IN BUILDINGS 9, 10, 11, 4, 12.
  - (E15) PROVIDE NEW KILOVAATHOUR DEMAND METERS IN EXISTING METERING SWITCHGEAR FOR NEW BUILDINGS 9, 10, 11, 4, 12.

**COMMUNICATIONS KEYED NOTES:**

- FOR SHEET E-101 ONLY
- (C1) EXISTING TELECOMMUNICATIONS MAIN DISTRIBUTION FRAME (MDF) FOR CAMP WILLIAMS IN EXISTING BUILDING 61T.
  - (C2) EXISTING UNDERGROUND TELECOMMUNICATIONS MANHOLE TO REMAIN.
  - (C3) EXISTING 4" PVC UNDERGROUND TELECOMMUNICATIONS DUCTBANK TO REMAIN. FIELD VERIFY QUANTITY OF CONDUITS IN EACH DUCTBANK.
  - (C4) EXISTING (2) 200 PAIR TELEPHONE CABLE AND EXISTING (2) 24 STRAND FIBER OPTIC CABLE IN (2) 4" PVC FROM EXISTING MDF IN BUILDING 61T TO EXISTING SPLICE CLOSURES IN EXISTING MANHOLE TH405 TO REMAIN FOR TELECOMMUNICATIONS SERVICE TO CLASSROOM BUILDINGS.
  - (C5) EXISTING INTERMEDIATE DISTRIBUTION FRAME (IDF) IN EXISTING CLASSROOM BUILDINGS TO REMAIN.
  - (C6) EXISTING 25 PAIR TELEPHONE CABLE AND 4 STRAND FIBER OPTIC CABLE IN 4" PVC FROM EXISTING SPLICE CLOSURES IN MANHOLE TH405 TO IDF'S IN EXISTING CLASSROOM BUILDINGS TO REMAIN.
  - (C7) EXISTING (4) 4" TYPE EB-20 PVC CONDUITS, CONCRETE ENCASED, UNDERGROUND, STUBBED TO APPROXIMATE LOCATIONS SHOWN FROM EXISTING MANHOLE TH405 TO REMAIN.
  - (C8) EXTEND EXISTING 4" UNDERGROUND CONDUIT TO NEW BUILDINGS 9, 10, 11, 4, 12 THROUGH BUILDING FLOOR, AND TERMINATE NEAR LEFT END OF THE IDF BACKBOARD. SEE TELECOMM RISER DIAGRAM, SHEET E-601 AND MODULAR CLASSROOM BUILDING PLANS, SHEET AE101.
  - (C9) PROVIDE NEW INTERMEDIATE DISTRIBUTION FRAME (IDF) IN NEW CLASSROOM BUILDINGS 9, 10, 11, 4, 12 WITH NEW 25 PAIR TELEPHONE CABLE AND NEW 4 STRAND FIBER OPTIC CABLE FROM EXISTING SPLICE CLOSURES IN MANHOLE TH405 TO NEW IDF AND MAKE ALL TERMINATIONS. SEE TELECOMM RISER DIAGRAM, SHEET E-601.

**GENERAL TELECOMM SYSTEM NOTES:**

- SEE GENERAL ELECTRICAL NOTES, THIS SHEET.
- COORDINATE INSTALLATION OF NEW TELECOMM SYSTEM WITH UTAH NATIONAL GUARD PRIOR TO BEGINNING WORK. CONTACT MIKE HANSEN AT (801) 523-4118.
- PROVIDE NEW TELECOMM EQUIPMENT AND CABLES IN ACCORDANCE WITH SPECIFICATION SECTION 16140.

**TELECOMM SYSTEM CONTRACTOR:**

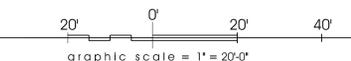
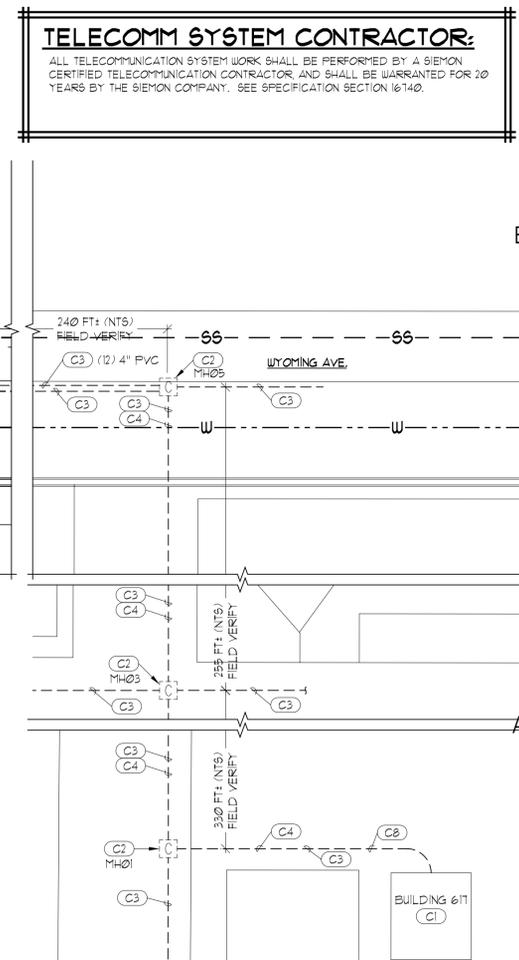
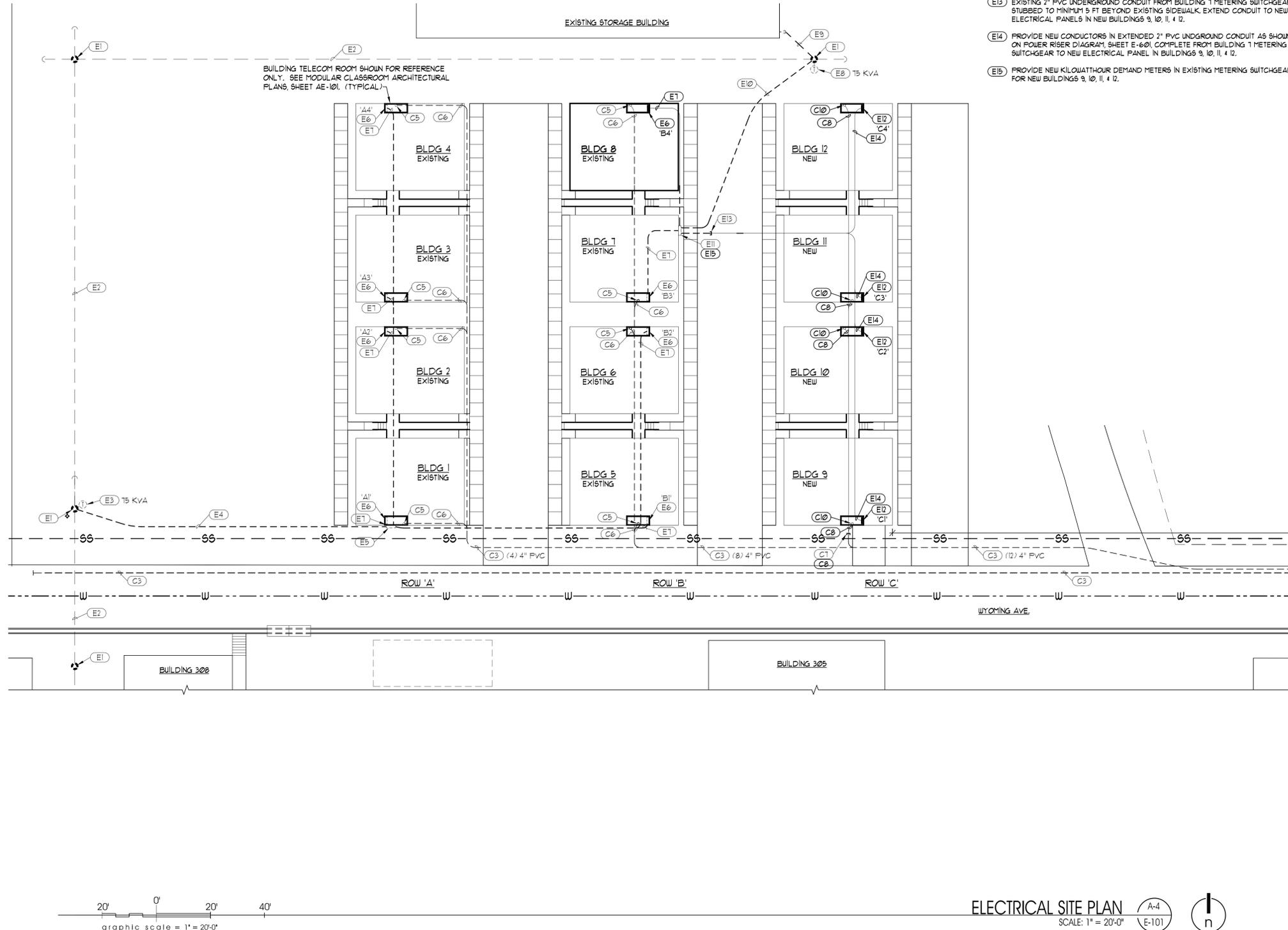
ALL TELECOMMUNICATION SYSTEM WORK SHALL BE PERFORMED BY A SIEMON CERTIFIED TELECOMMUNICATION CONTRACTOR, AND SHALL BE WARRANTED FOR 20 YEARS BY THE SIEMON COMPANY. SEE SPECIFICATION SECTION 16140.

D

C

B

A



**ELECTRICAL SITE PLAN**  
SCALE: 1" = 20'-0"  
A-4  
E-101



ARCHITECT PROJECT #0547



703 east 1700 south  
salt lake city, utah 84105  
ph: 801.466.8818  
fx: 801.466.4411  
ajc@ajcarchitects.com

**Thomas & Kolman**  
**ELECTRICAL Engineering Co., Inc.**  
64 West 1700 South  
Salt Lake City, Utah 84115  
PH#: (801) 484-8161  
FAX: (801) 484-3538  
CONTACT: Roy Kolman

**Stantec**  
**Consulting**  
3995 South 700 East Suite 300  
Salt Lake City, Utah, 84107  
PH#: (801) 261-0090  
FAX: (801) 266-1671  
CONTACT: Ken Engstrom

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**UTAH NATIONAL GUARD**

R.T.I. CLASSROOMS  
9,10,11,12  
CAMP WILLIAMS  
DRAPER, UTAH

SHEET NAME:  
**ELECTRICAL SITE PLAN AND NOTES**

REVISIONS

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SHEET NUMBER:

**E-101**  
SHEET 12 OF 13



703 east 1700 south  
salt lake city, utah 84105  
ph: 801.466.8818  
fx: 801.466.4411  
ajc@ajcarchitects.com

Thomas & Kolkman  
ELECTRICAL Engineering Co., Inc.  
64 West 1700 South  
Salt Lake City, Utah 84115  
PH#: (801) 484-8161  
FAX: (801) 484-3538  
CONTACT: Bill Grandy

Stantec  
CONSULTING  
3995 South 700 East Suite 300  
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SHEET NAME:  
ELECTRICAL DIAGRAMS  
AND DETAILS

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ISSUE DATA table with fields: ISSUE DATE, ISSUE TYPE, DRAWN BY, CHECKED BY, CAD FILE NAME, DFCM PROJECT #, STATE PROPERTY #, COPYRIGHT

SHEET NUMBER:

E-601

SHEET 12 OF 12

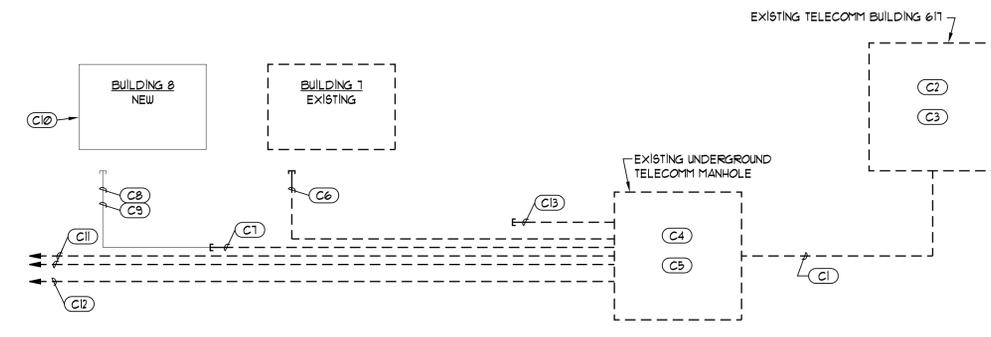
**TELECOMM SYSTEM CONTRACTOR:**  
ALL TELECOMMUNICATION SYSTEM WORK SHALL BE PERFORMED BY A SIEMON CERTIFIED TELECOMMUNICATION CONTRACTOR AND SHALL BE WARRANTED FOR 20 YEARS BY THE SIEMON COMPANY. SEE SPECIFICATION SECTION 16140.

**TELECOMM RISER KEYED NOTES:**

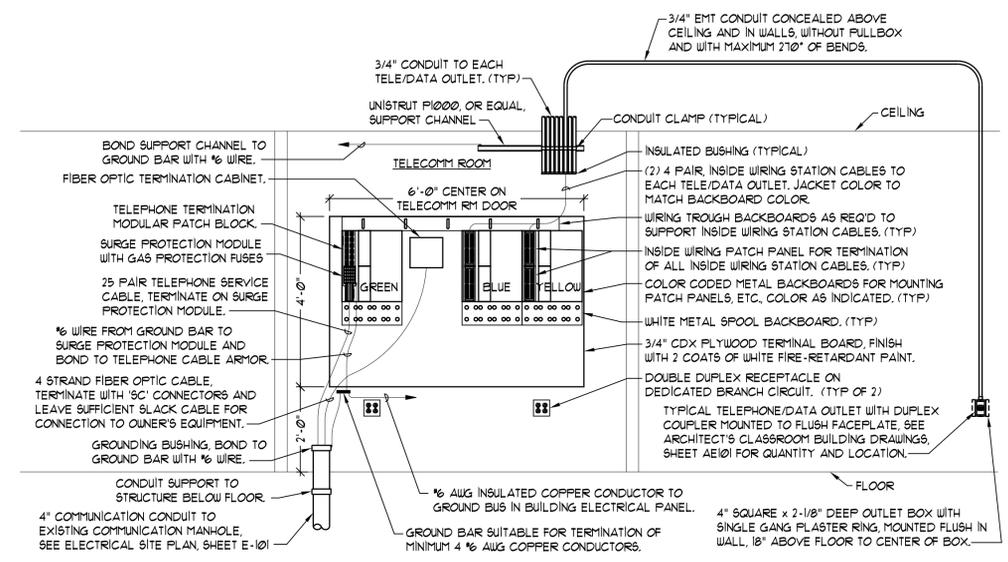
- (C1) PROVIDE NEW 200 PAIR OUTSIDE FEED TELEPHONE CABLE AND NEW 24 STRAND OUTSIDE FEED FIBER OPTIC CABLE IN EXISTING 4" PVC UNDERGROUND COMMUNICATION CONDUITS FROM EXISTING TELECOM BUILDING 611 TO EXISTING COMMUNICATIONS MANHOLE "M405" ON WYOMING AVENUE TO SERVE BUILDINGS 7 THRU 12.
- (C2) TERMINATE NEW TELEPHONE CABLE AT EXISTING MDF IN BUILDING 611 TO NEW RACK MOUNT LIU WITH TYPE 'S1' OR 'S2' CONNECTORS. FIELD VERIFY REQUIREMENTS WITH OWNER.
- (C3) TERMINATE NEW FIBER OPTIC CABLES AT EXISTING MDF IN BUILDING 611 TO NEW RACK MOUNT LIU WITH TYPE 'S1' OR 'S2' CONNECTORS. FIELD VERIFY REQUIREMENTS WITH OWNER.
- (C4) PROVIDE NEW TELEPHONE CABLE SPLICE CLOSURES FOR NEW TELEPHONE CABLES IN EXISTING MANHOLE AND TERMINATE ALL NEW TELEPHONE CABLES.
- (C5) PROVIDE NEW FUSION SPLICE CLOSURE FOR NEW FIBER OPTIC CABLES IN EXISTING MANHOLE AND TERMINATE ALL NEW FIBER OPTIC CABLES.
- (C6) EXISTING 25 PAIR TELEPHONE CABLE AND 4 STRAND FIBER OPTIC CABLE IN 4" PVC FROM EXISTING MANHOLE "M405" TO BUILDING 1 IDF TO REMAIN. EXISTING TELEPHONE CABLE IS TERMINATED TO SPLICE CLOSURE IN MANHOLE. TERMINATE EXISTING FIBER OPTIC CABLE TO NEW FIBER OPTIC SPLICE CLOSURE IN MANHOLE "M405".
- (C7) EXISTING 4" PVC UNDERGROUND COMMUNICATION CONDUITS STUBBED TO NORTH SIDE EXISTING BUILDING 1. SEE ELECTRICAL SITE PLAN, SHEET E-101 FOR APPROXIMATE LOCATION.
- (C8) EXTEND EXISTING 4" CONDUIT TO NEW BUILDING 8. SEE ELECTRICAL SITE PLAN, SHEET E-101.
- (C9) PROVIDE NEW 25 PAIR OUTSIDE FEED TELEPHONE CABLE AND 4 STRAND OUTSIDE FEED FIBER OPTIC CABLE IN EXTENDED 4" PVC UNDERGROUND COMMUNICATION CONDUIT FROM NEW SPLICE CLOSURES IN MANHOLE "M405" TO NEW BUILDING 8.
- (C10) PROVIDE NEW TELECOMM TERMINAL BOARD IN NEW BUILDING 8. SEE TYPICAL TELECOMM TERMINAL BOARD DETAIL, B2/E-601 AND MODULAR CLASSROOM BUILDING FLANS, SHEET AE101.
- (C11) EXISTING 4" PVC UNDERGROUND WITH 25 PAIR TELEPHONE CABLE AND 4 STRAND FIBER OPTIC CABLE TO REMAIN TO EXISTING BUILDINGS 5 AND 6.
- (C12) EXISTING (4) 4" PVC UNDERGROUND WITH 25 PAIR TELEPHONE CABLE AND 4 STRAND FIBER OPTIC CABLE TO REMAIN TO EXISTING ROW 'A' BUILDINGS 1 THRU 4.
- (C13) EXISTING (4) 4" PVC UNDERGROUND COMMUNICATION CONDUITS STUBBED TO ROW 'C' FOR FUTURE BUILDINGS 9, 10, 11 & 12 TO REMAIN.

**TELECOMM RISER NOTES:**

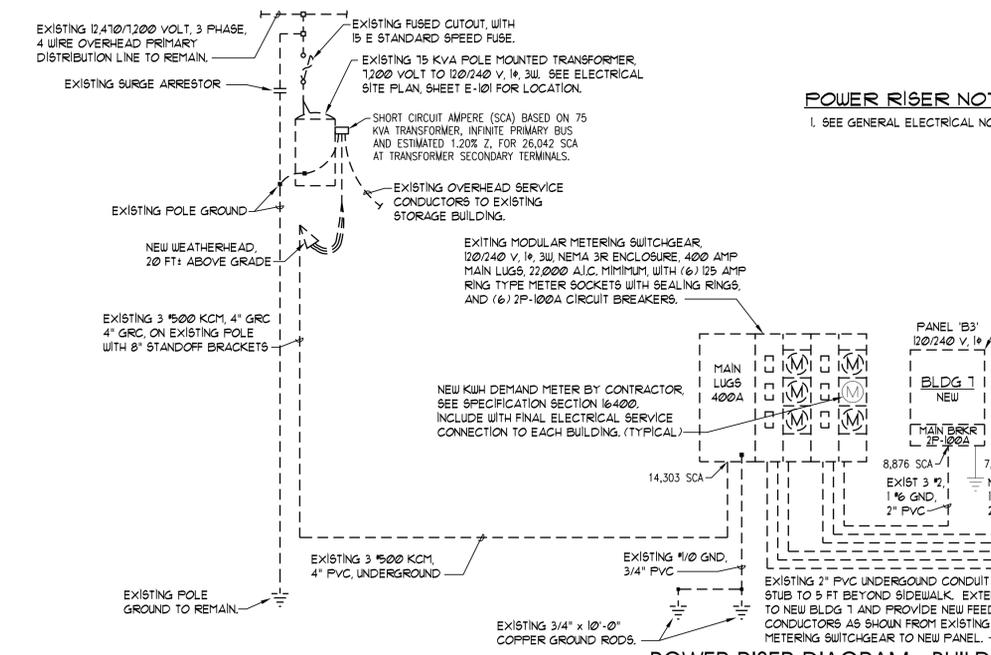
- 1. SEE GENERAL ELECTRICAL NOTES, SHEET E-101.
- 2. COORDINATE INSTALLATION OF NEW TELECOMM SYSTEM WITH UTAH NATIONAL GUARD PRIOR TO BEGINNING WORK. CONTACT MIKE HANSEN AT (801) 523-4118.
- 3. PROVIDE NEW TELECOMM EQUIPMENT AND CABLES IN ACCORDANCE WITH SPECIFICATION SECTION 16140.



TELECOMM RISER DIAGRAM - BUILDINGS 7 THRU 12 SCHEMATIC E-601



TYPICAL TELECOMM TERMINAL BOARD DETAIL B2 E-601 SCALE: 1/2\"/>



**POWER RISER NOTES:**

- 1. SEE GENERAL ELECTRICAL NOTES, SHEET E-101.

RECORD SET  
REASONABLE LEVEL OF ACCURACY CAN BE EXPECTED, BUT NO WARRANTY OF 100% ACCURACY IS MADE OR IMPLIED  
March 16, 2005

POWER RISER DIAGRAM - BUILDINGS 7 THRU 12 SCHEMATIC E-101