

**GENERAL NOTES**

- 1.1 COMPLIANCE
- ALL WORK TO CONFORM TO GOVERNING MUNICIPALITY'S STANDARDS, SPECIFICATIONS AND REQUIREMENTS.
  - ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THESE CONTRACT DOCUMENTS AND THE MOST RECENT, ADOPTED EDITIONS OF THE FOLLOWING: INTERNATIONAL BUILDING CODE (IBC), APMA MANUAL OF STANDARD PLANS AND SPECIFICATIONS, ADA ACCESSIBILITY GUIDELINES.
  - ALL CONSTRUCTION SHALL BE AS SHOWN ON THESE PLANS. ANY REVISIONS MUST HAVE PRIOR WRITTEN APPROVAL.
- 1.2 PERMITTING AND INSPECTIONS
- PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING SURE THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED THOROUGHLY REVIEWED PLANS AND OTHER DOCUMENTS APPROVED BY ALL OF THE PERMITTING AUTHORITIES.
  - CONTRACTOR IS RESPONSIBLE FOR SCHEDULING AND NOTIFYING ARCHITECT/ENGINEER OR INSPECTING AUTHORITY 48 HOURS IN ADVANCE OF COVERING UP ANY PHASE OF CONSTRUCTION REQUIRING OBSERVATION.
- 1.3 COORDINATION & VERIFICATION
- ALL DIMENSIONS, GRADES & UTILITY DESIGNS SHOWN ON THE PLANS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH CONSTRUCTION FOR NECESSARY PLAN OR GRADE CHANGES. NO EXTRA COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR WORK HAVING TO BE REDONE DUE TO DIMENSIONS OR GRADES SHOWN INCORRECTLY ON THESE PLANS, IF NOT VERIFIED AND NOTIFICATION OF CONFLICTS HAS NOT BEEN BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER.
  - CONTRACTOR MUST VERIFY ALL EXISTING CONDITIONS BEFORE BIDDING AND BRING UP ANY QUESTIONS BEFOREHAND. NO ALLOWANCE WILL BE MADE FOR DISCREPANCIES OR OMISSIONS THAT CAN BE EASILY OBSERVED.
  - DO NOT SCALE DRAWING FOR QUANTITIES OR DIMENSIONS. IF THERE IS A QUESTION ON DIMENSIONS CONTACT ENGINEER FOR CLARIFICATION.
- 1.4 SAFETY AND PROTECTION
- CONTRACTOR IS SOLELY RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION.
  - CONTRACTOR IS RESPONSIBLE FOR THE SAFETY OF THE PROJECT AND SHALL MEET ALL OSHA REQUIREMENTS.
  - CONTRACTOR IS RESPONSIBLE FOR CONFORMING TO LOCAL AND FEDERAL CODES GOVERNING SHORING AND BRACING OF EXCAVATIONS AND TRENCHES, AND FOR THE PROTECTION OF WORKERS AND PUBLIC.
  - CONTRACTOR SHALL TAKE ALL MEASURES NECESSARY TO PROTECT ALL EXISTING PUBLIC AND PRIVATE PROPERTY, ROADWAYS, AND UTILITY IMPROVEMENTS. DAMAGE TO EXISTING IMPROVEMENTS CAUSED BY THE CONTRACTOR MUST BE REPAIRED BY THE CONTRACTOR AT HIS/HER EXPENSE TO THE SATISFACTION OF THE OWNER OF SAID IMPROVEMENTS.
  - CONTRACTOR IS REQUIRED TO KEEP ALL CONSTRUCTION ACTIVITIES WITHIN THE APPROVED PROJECT LIMITS. THIS INCLUDES, BUT IS NOT LIMITED TO, VEHICLE AND EQUIPMENT STAGING, MATERIAL STORAGE AND LIMITS OF TRENCH EXCAVATION.
  - IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN PERMISSION AND/OR EASEMENTS FROM THE APPROPRIATE GOVERNMENT AGENCY AND/OR INDIVIDUAL PROPERTY OWNER(S) FOR WORK OR STAGING OUTSIDE OF THE PROJECT LIMITS.
  - CONTRACTOR SHALL PROVIDE BARRICADES, SIGNS, FLASHERS, OTHER EQUIPMENT AND FLAG PERSONS NECESSARY TO INSURE THE SAFETY OF WORKERS AND VISITORS. ALL CONSTRUCTION SIGNING, BARRICADEING, AND TRAFFIC DELINEATION SHALL CONFORM TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", LATEST EDITION.
  - CONTRACTOR SHALL COMPLY WITH LOCAL NOISE ORDINANCE STANDARDS.
  - CONTRACTOR IS RESPONSIBLE FOR DUST CONTROL ACCORDING TO GOVERNING AGENCY STANDARDS.
  - CONTRACTOR SHALL TAKE ALL NECESSARY AND PROPER PRECAUTIONS TO PROTECT ADJACENT PROPERTIES FROM ANY AND ALL DAMAGE THAT MAY OCCUR FROM STORM WATER RUNOFF AND/OR DEPOSITION OF DEBRIS RESULTING FROM ANY AND ALL WORK IN CONNECTION WITH CONSTRUCTION.
  - CONTRACTOR SHALL PROVIDE ALL NECESSARY HORIZONTAL AND VERTICAL TRANSITIONS BETWEEN NEW CONSTRUCTION AND EXISTING SURFACES TO PROVIDE FOR PROPER DRAINAGE AND FOR INGRESS AND EGRESS TO NEW CONSTRUCTION.
  - THE CONTRACTOR SHALL TAKE REASONABLE MEASURE TO PROTECT EXISTING IMPROVEMENTS FROM DAMAGE AND ALL SUCH IMPROVEMENTS DAMAGED BY THE CONTRACTOR'S OPERATION SHALL BE REPAIRED OR RECONSTRUCTED TO THE ENGINEER/OWNER'S SATISFACTION AT THE EXPENSE OF THE CONTRACTOR.

**GENERAL NOTES CONTINUED**

- 1.5 MATERIALS
- SITE CONCRETE - SEE SPECIFICATION
  - SLABS-ON-GRADE WILL BE TYPICALLY SCORED (14 THE DEPTH) AT INTERVALS NOT TO EXCEED THEIR WIDTH OR 12 TIMES THEIR DEPTH, WHICHEVER IS LESS. SCORING WILL BE PLACED TO PREVENT RANDOM CRACKING. FULL DEPTH EXPANSION JOINTS WILL BE PLACED AGAINST ANY OBJECT DEEMED TO BE FIXED, CHANGES IN DIRECTION AND AT EQUAL INTERVALS NOT TO EXCEED 50 FEET. CONCRETE WATERWAYS, CURB WALLS, MONUMENTS, CURB AND GUTTER, ETC. WILL TYPICALLY BE SCORED (14 THE DEPTH) AT INTERVALS NOT TO EXCEED 10 FEET AND HAVE FULL DEPTH EXPANSION JOINTS AT EQUAL SPACING NOT TO EXCEED 50 FEET.
  - UNLESS OTHERWISE NOTED, ALL SLABS-ON-GRADE WILL HAVE A MINIMUM 8" TURNED-DOWN EDGE TO HELP CONTROL FROST HEAVE.
  - UNLESS OTHERWISE NOTED, ALL ON-GRADE CONCRETE WILL BE PLACED ON A MINIMUM 4" GRAVEL BASE OVER A WELL COMPACTED (90%) SUBGRADE.
  - ALL EXPOSED SURFACES WILL HAVE A TEXTURED FINISH, RUBBED OR BROOMED. ANY "RUBBING" OR STONING OF NEW CONCRETE WILL BE DONE WHILE IT IS STILL "GREEN".
  - ALL JOINTS (CONTROL, CONSTRUCTION OR EXPANSION JOINTS, ETC.) WILL BE SEALED WITH A ONE PART POLYURETHANE SEALANT (SEE SPECIFICATION), CUT ALL NEW EXPANSION JOINT MATERIAL 1/2" BELOW FINISH SURFACE AND INSTALL NEW JOINT SEALANT. SEE SPECIFICATION.
  - IF ANY CONCRETE IS CHIPPED OR CRACKED DURING THE REMOVAL OF ASPHALT, CONCRETE, OR CAUSED BY CONSTRUCTION TRAFFIC, ALL SECTIONS OF CONCRETE ARE TO BE REPLACED AT CONTRACTOR'S EXPENSE.
- 1.6 GRADING / SOILS
- SITE GRADING SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS.
  - PROCEDURE FOR UNSUITABLE MATERIALS:
    - EXCAVATE TO SUBGRADE.
    - SCARIFY A MINIMUM OF 12" DEEP AND ALLOW TO DRY. RESCARIFY EVERY 2-3 DAYS.
    - PROOFROLL AND COMPACT.
 IF WHILE PROOFROLLING, SOFT SPOTS TURN UP, IT WILL BE RESCARIFIED AND ALLOWED TO DRY (UP TO TWO WEEKS). AFTER TWO WEEKS, THE SOFT AREAS WILL BE MEASURED UP AND OVEREXCAVATED. THE OVEREXCAVATION WILL BE UNDER DIRECTION OF THE ARCHITECT/ENGINEER. THE SOFT MATERIAL WILL BE REMOVED AND REPLACED WITH SUITABLE MATERIALS AT RATE OF — CU. YD. THE BOTTOM OF THE EXCAVATION WILL RECEIVE A STABILIZATION FABRIC, MIRAFI 600X OR APPROVED BY ARCHITECT/ENGINEER, AND THE COMPENSATION FOR THE FABRIC WILL BE — SQ. FT.
  - THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND REPLACING ALL SOFT, YIELDING OR UNSUITABLE MATERIALS AND REPLACING WITH SUITABLE MATERIALS AS SPECIFIED IN THE DOCUMENTS.
  - ALL EXCAVATED OR FILLED AREAS SHALL BE COMPACTED TO 95% OF MODIFIED PROCTOR MAXIMUM DENSITY PER ASTM TEST D-1557, EXCEPT UNDER BUILDING FOUNDATIONS WHERE IT SHALL BE 98% MIN. OF MAXIMUM DENSITY. MOISTURE CONTENT AT TIME OF PLACEMENT SHALL NOT EXCEED 2% ABOVE NOR 3% BELOW OPTIMUM.
  - CONTRACTOR SHALL SUBMIT A COMPACTION REPORT PREPARED BY A QUALIFIED REGISTERED SOILS ENGINEER, VERIFYING THAT ALL FILLED AREAS AND SUBGRADE AREAS WITH THE AREAS TO BE PAVED, HAVE BEEN COMPACTED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND THE RECOMMENDATIONS SET FORTH IN THE DOCUMENTS.
  - ALL EXISTING VALVES, MANHOLES, ETC. SHALL BE RAISED OR LOWERED TO GRADE AS REQUIRED.

**GENERAL NOTES CONTINUED**

- 1.7 UTILITIES
- IT SHALL BE THE CONTRACTOR'S FULL RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY COMPANIES EITHER DIRECT OR THROUGH BLUE STAKE TO LOCATE THEIR FACILITIES PRIOR TO STARTING CONSTRUCTION.
  - ALL STORM DRAIN AND IRRIGATION CONDUITS SHALL BE INSTALLED WITH WATER TIGHT JOINTS AND CONNECTIONS.
  - ALL STORM DRAIN PIPE PENETRATIONS INTO BOXES SHALL BE CONSTRUCTED WITH WATER TIGHT SEALS ON THE OUTSIDE AND GROUTED SMOOTH WITH A NON-SHRINK GROUT ON THE INSIDE THE INSIDE OF THE BOX.
  - ALL STORM DRAIN CONDUITS AND BOXES SHALL BE CLEAN AND FREE OF ROCKS, DIRT, AND CONSTRUCTION DEBRIS PRIOR TO FINAL INSPECTION.
- 1.8 SURVEY CONTROL
- CONTRACTOR IS RESPONSIBLE FOR ALL STAKING, GRADES, AND CONTROL POINTS.
  - THE CONTRACTOR SHALL PROTECT ALL STAKES AND MARKERS FOR VERIFICATION PURPOSES.
  - CONTRACTOR WILL BE RESPONSIBLE FOR FURNISHING, MAINTAINING, OR RESTORING ALL MONUMENTS AND REFERENCE MARKS WITHIN THE PROJECT SITE.
- 1.9 AMERICAN DISABILITIES ACT
- PEDESTRIAN / ADA ROUTES SHALL MEET THE FOLLOWING SPECIFICATIONS:
    - \*ROUTES SHALL HAVE A 2.00% (1:50) MAXIMUM CROSS SLOPE.
    - \*ROUTES SHALL HAVE A 5.00% (1:20) MAXIMUM RUNNING SLOPE.
    - \*RAMPS SHALL HAVE A 8.33% (1:12) MAXIMUM RUNNING SLOPE.
  - ADA PARKING STALLS AND ADJACENT ROUTES SHALL HAVE A 2.00% MAXIMUM SURFACE SLOPE IN ANY DIRECTION.
  - THE CONTRACTOR SHALL ADHERE TO THE ABOVE SPECIFICATIONS. IN THE EVENT OF A DISCREPANCY IN THE CONSTRUCTION DOCUMENTS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER PRIOR TO ANY CONSTRUCTION.

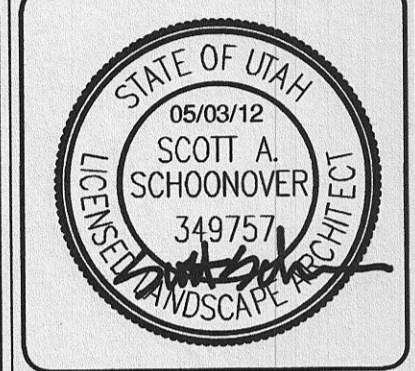
**LEGEND**

NEW	EXISTING	NEW	EXISTING	
---	---	PP	PP	SUBJECT PROPERTY LINE
---	X---	UP	UP	POWER POLE
P---	P---	GUY	GUY	UTILITY POLE
T---	T---	TRANS	TRANS	GUY ANCHOR
ATMS	ATMS	LP	LP	POWER TRANSFORMER
FO	FO	TB	TB	LIGHT POLE
G	G	Ⓢ	Ⓢ	TELEPHONE RISER
W	W	Ⓢ	Ⓢ	TELEPHONE MANHOLE
SW	SW	Ⓢ	Ⓢ	WATER MANHOLE
S	S	Ⓢ	Ⓢ	WATER VALVE
SD	SD	Ⓢ	Ⓢ	WATER METER
IRR	IRR	Ⓢ	Ⓢ	FIRE HYDRANT
RD	RD	SSCO	SSCO	SANITARY SEWER MANHOLE
---	---	SSCO	SSCO	SANITARY SEWER CLEANOUT
---	---	SSCO	SSCO	STORM DRAIN MANHOLE
---	---	SSCO	SSCO	STORM DRAIN CLEANOUT
---	---	SSCO	SSCO	STORM DRAIN CATCH BASIN
---	---	SSCO	SSCO	GRATE
---	---	SSCO	SSCO	STORM DRAIN CLEANOUT
---	---	SSCO	SSCO	SPOT ELEVATION
---	---	SSCO	SSCO	FLOW DIRECTION
---	---	SSCO	SSCO	CONIFEROUS TREE
---	---	SSCO	SSCO	DECIDUOUS TREE
---	---	SSCO	SSCO	SIGN
---	---	SSCO	SSCO	ELECTRICAL METER
---	---	SSCO	SSCO	GAS METER
---	---	SSCO	SSCO	AC UNIT
---	---	SSCO	SSCO	ROOF DRAIN

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**VICINITY MAP**  
 N.T.S.

**ABBREVIATIONS**

AC	AIR CONDITIONING	IE	INVERT ELEVATION	SDCB	STORM DRAIN CATCH BASIN
BC	BUILDING	IRR	IRRIGATION	S	SOUTH
B&C	BAR & CAP	LF	LINEAR FEET	SAD	SEE ARCHITECTURAL DRAWINGS
BM	BENCHMARK	LIP	LIP OF GUTTER	SS	SANITARY SEWER
BOW	BACK OF WALK	MAX	MAXIMUM	SD	STORM DRAIN
CL	CENTERLINE	MIN	MINIMUM	SEC	SECTION
CP	CONTROL POINT	MON	MONUMENT	SPEC	SPECIFICATION
CU FT	CUBIC FOOT	N	NORTH	SQ	SQUARE
CU YD	CUBIC YARD	NG	NATURAL GROUND	SQ FT	SQUARE FEET
CONC	CONCRETE	NOTE	SEE NOTE	SQ YD	SQUARE YARD
CONST	CONSTRUCTION	NTS	NOT TO SCALE	STA	STATION
CMP	CORRUGATED METAL PIPE	OG	ORIGINAL GROUND	STD	STANDARD
DIA or Ø	DIAMETER	PC	POINT OF CURVATURE	STM	STORM
E	EAST	PCC	POINT OF COMPOUND CURVE	T	TOWNSHIP
EOA	EDGE OF ASPHALT	PI	POINT OF INTERSECTION	TBC	TOP BACK OF CURB
EOC	EDGE OF CONCRETE	PRC	POINT OF REVERSE CURVE	TBR	TOP BACK OF RETAINING WALL
ELEV	ELEVATION	RT	POINT OF TANGENCY	TOA	TOP OF ASPHALT
EX	EXISTING	POC	POINT OF CONNECTION	TOC	TOP OF CONCRETE
FFE	FINISHED FLOOR ELEVATION	PWR	POWER	TOE	TOE OF SLOPE
FG	FINISHED GRADE	P	PROPERTY LINE	TOP	TOP OF BANK
FL	FEET	PVC	POLYVINYL CHLORIDE PIPE	TOS	TOP OF SIDEWALK
FL	FLOW LINE	R	RANGE	TOW	TOP OF WALL
FOW	FRONT OF WALK	RCP	REINFORCED CONCRETE PIPE	TRANS	TRANSFORMER
GB	GRADE BREAK	RD	ROOF DRAIN	U.N.O.	UNLESS NOTED OTHERWISE
HDPE	HIGH DENSITY POLYETHYLENE	REV	REVISION	WTR	WATER
HW	HIGH WATER	ROW	RIGHT-OF-WAY	WW	WATER VALVE
HWY	HIGHWAY			W	WEST

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L5.03	IRRIGATION DETAILS

REV.	DATE	DESCRIPTION

PROJECT NO: 11358  
 CAD DWG. FILE: 11358-s11a.dwg  
 DRAWN BY: NMD/MGS  
 PROPERTY NO: 502-2681  
 DESIGNED BY: NMD  
 FIELD CREW: NMD/MGS  
 CHECKED BY: RJD  
 DATE: MAY 2012

SHEET TITLE  
**GENERAL NOTES, LEGEND, AND ABBREVIATIONS**

**G1.01**  
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