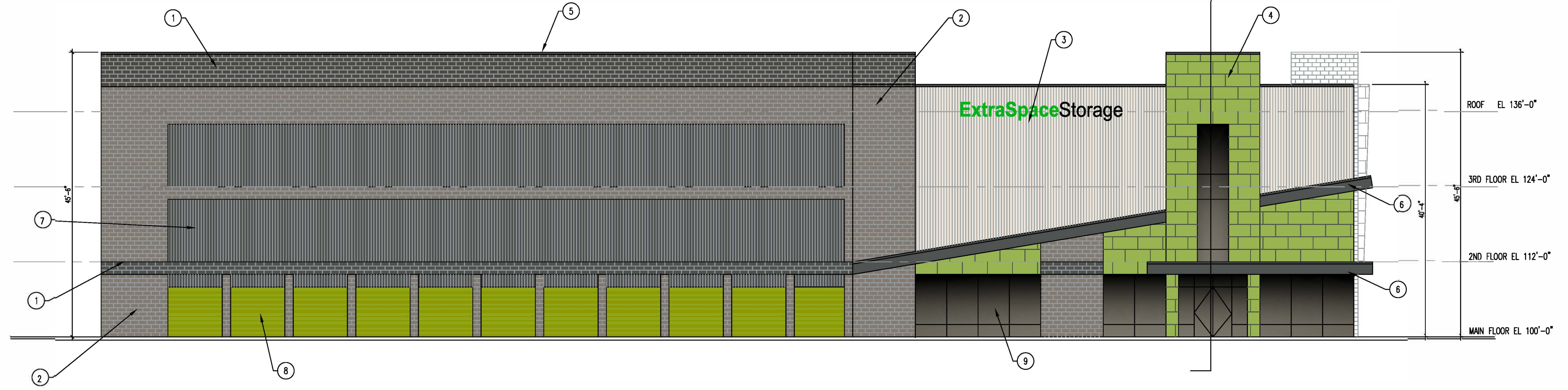
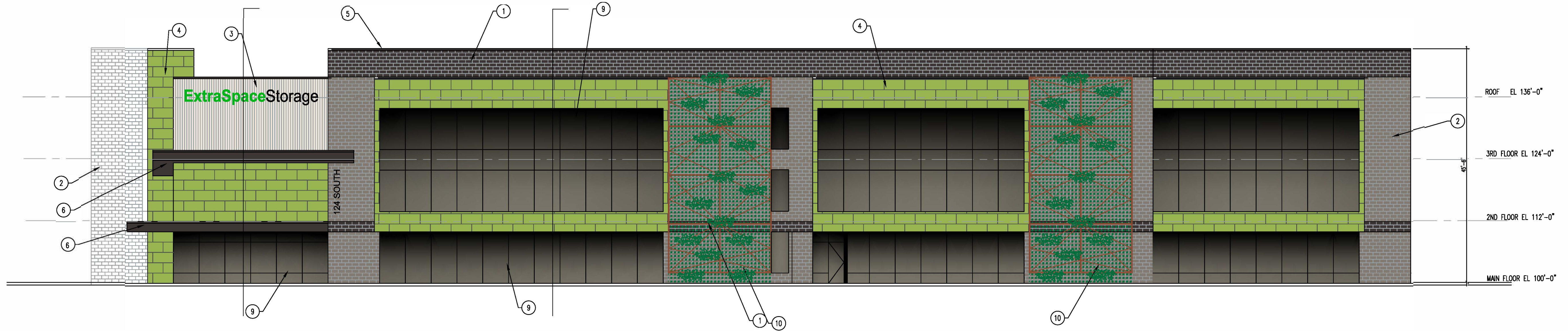


- KEYED MATERIALS LIST
- SUNROCK CHARCOAL SMOOTH FINISH CMU
  - SUNROCK MEDIUM GRAY SPLIT FACED CMU
  - CORUGATES MBCI PANEL 7.2 CREAM COLORED
  - INSULATED METAL PANELS - ACCENT COLOR TBD
  - CAP FLASHING - CHARCOAL
  - FASCIA AND SOFFIT - CHARCOAL PREFINISHED METAL
  - MBCI CORRUGATED 7.2 PANELS CHARCOAL
  - OVERHEAD DOORS - ACCENT COLOR TBD
  - ALUMINUM STOREFRONT MATERIAL
  - CORTEN METAL FRAME W/ CABLES FOR VINES - GROW WALL



## SOUTH ELEVATION

SCALE: 3/32" = 1'-0"



## EAST ELEVATION

SCALE: 3/32" = 1'-0"

### ELEVATIONAL AREAS:

TOTAL AREA: 11,000 SF  
 CMU AREA: 3,825 SF = 35% (58% OF EL. LESS GLASS)  
 METAL AREA: 2,729 SF = 24%  
 ALUM STOREFRONT: 4,446 SF = 41%

ALL IDEAS, DESIGNS, ARRANGEMENTS, AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND THE PROPERTY OF VINCENT DESIGN GROUP, INC. AND WERE CREATED, EVOLVED, AND DEVELOPED WITH THIS SPECIFIED PROJECT. NONE OF THE IDEAS, DESIGNS, ARRANGEMENTS, OR PLANS SHALL BE USED BY OR DISCLOSED TO ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT WRITTEN CONSENT OF VINCENT DESIGN GROUP, INC. WARNING: REPRODUCTION HEREOF IS A CRIMINAL OFFENSE UNDER 18 U.S.C. SEC. 506 UNAUTHORIZED DISCLOSURE MAY CONSTITUTE TRADE SECRET MISAPPROPRIATION, IN VIOLATION OF I.C. 24-2-31 ET. SEQ. AND OTHER LAWS.

**VDG** VINCENT DESIGN GROUP, INC.  
 ARCHITECTS AND PLANNERS

401 EAST 1700 SOUTH, SALT LAKE CITY, UTAH - (801)-484-2046

## PROPOSED ELEVATIONS FOR NEW: GATEWAY STORAGE

124 SOUTH 700 WEST  
 SALT LAKE CITY, UTAH  
 PROPOSED ELEVATIONS

ARCH. PROJECT NO: XX-XXX  
 DATE: 1/6/19  
 DRAWN BY: BRENT  
 CHECKED BY:  
 DESIGNED BY:

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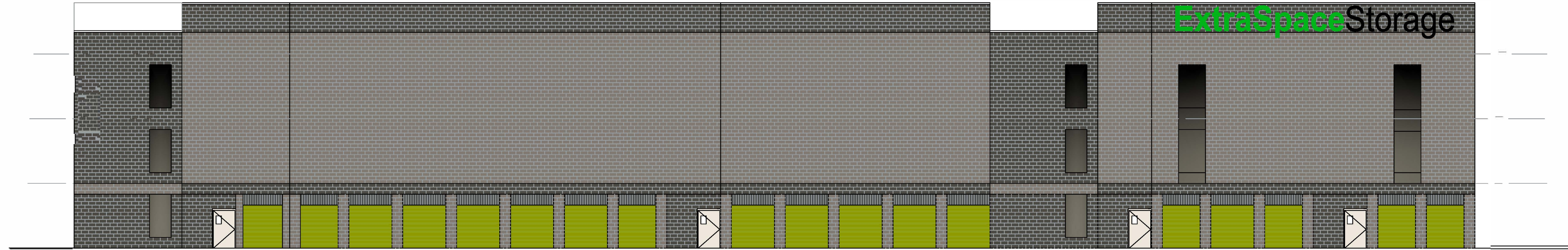
DATE	REVISION

### SHEET TITLE

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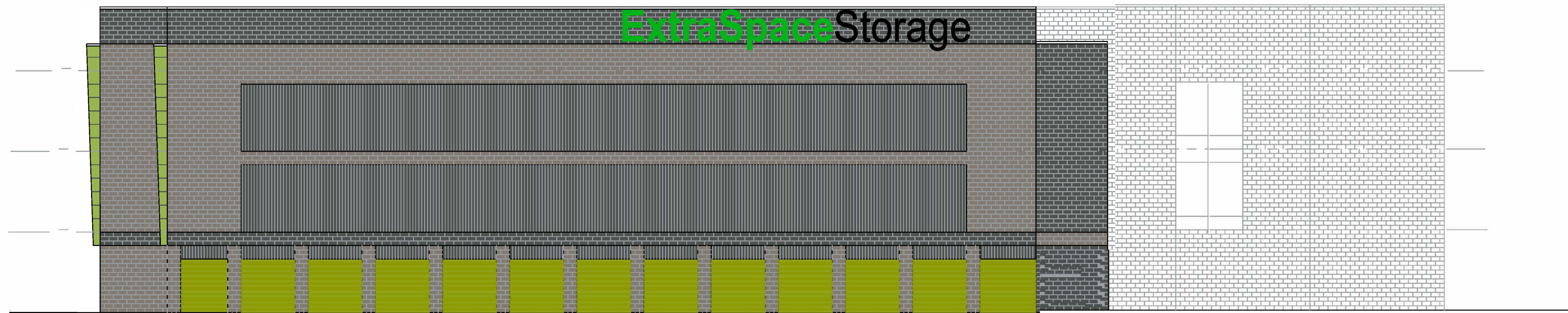
ARCHITECTURAL 1 of 1





**WEST ELEVATION**

SCALE: 3/32" = 1'-0"



**NORTH ELEVATION**

SCALE: 3/32" = 1'-0"

- KEYED MATERIALS LIST
1. SUNROCK CHARCOAL SMOOTH FINISH CMU
  2. SUNROCK MEDIUM GRAY SPLIT FACED CMU
  3. CORRUGATED MBO PANEL 7.2 CREAM COLORED
  4. INSULATED METAL PANELS - ACCENT COLOR TBD
  5. CAP FLASHING - CHARCOAL
  6. FASCIA AND SOFFIT - CHARCOAL PREFINISHED METAL
  7. MBO CORRUGATED 7.2 PANELS CHARCOAL
  8. OVERHEAD DOORS - ACCENT COLOR TBD
  9. ALUMINUM STOREFRONT MATERIAL
  10. CORTEN METAL FRAME CABLES FOR VINES - GROW WALL

ALL IDEAS, DESIGNS, ARRANGEMENTS, AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND THE PROPERTY OF VINCENT DESIGN GROUP, INC. AND WERE CREATED, EVOLVED, AND DEVELOPED WITH THIS SPECIFIED PROJECT. NONE OF THE IDEAS, DESIGNS, ARRANGEMENTS, OR PLANS SHALL BE USED BY OR DISCLOSED TO ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT WRITTEN CONSENT OF VINCENT DESIGN GROUP, INC. WARNING: REPRODUCTION HEREOF IS A CRIMINAL OFFENSE UNDER 18 U.S.C. SEC. 506 UNAUTHORIZED DISCLOSURE MAY CONSTITUTE TRADE SECRET MISAPPROPRIATION, IN VIOLATION OF I.C. 24-2-31 ET. SEQ. AND OTHER LAWS.

**VDC** VINCENT DESIGN GROUP, INC.  
ARCHITECTS AND PLANNERS

401 EAST 1700 SOUTH, SALT LAKE CITY, UTAH - (801-484-2046)

PROPOSED ELEVATIONS FOR NEW:  
**GATEWAY STORAGE**

124 SOUTH 700 WEST  
SALT LAKE CITY, UTAH  
PROPOSED ELEVATIONS

ARCH. PROJECT NO: XX-XXX  
DATE: 1/6/19  
DRAWN BY: BRENT  
CHECKED BY:  
DESIGNED BY:

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DATE	REVISION

SHEET TITLE

**A-2.10**

ARCHITECTURAL 1 of 1



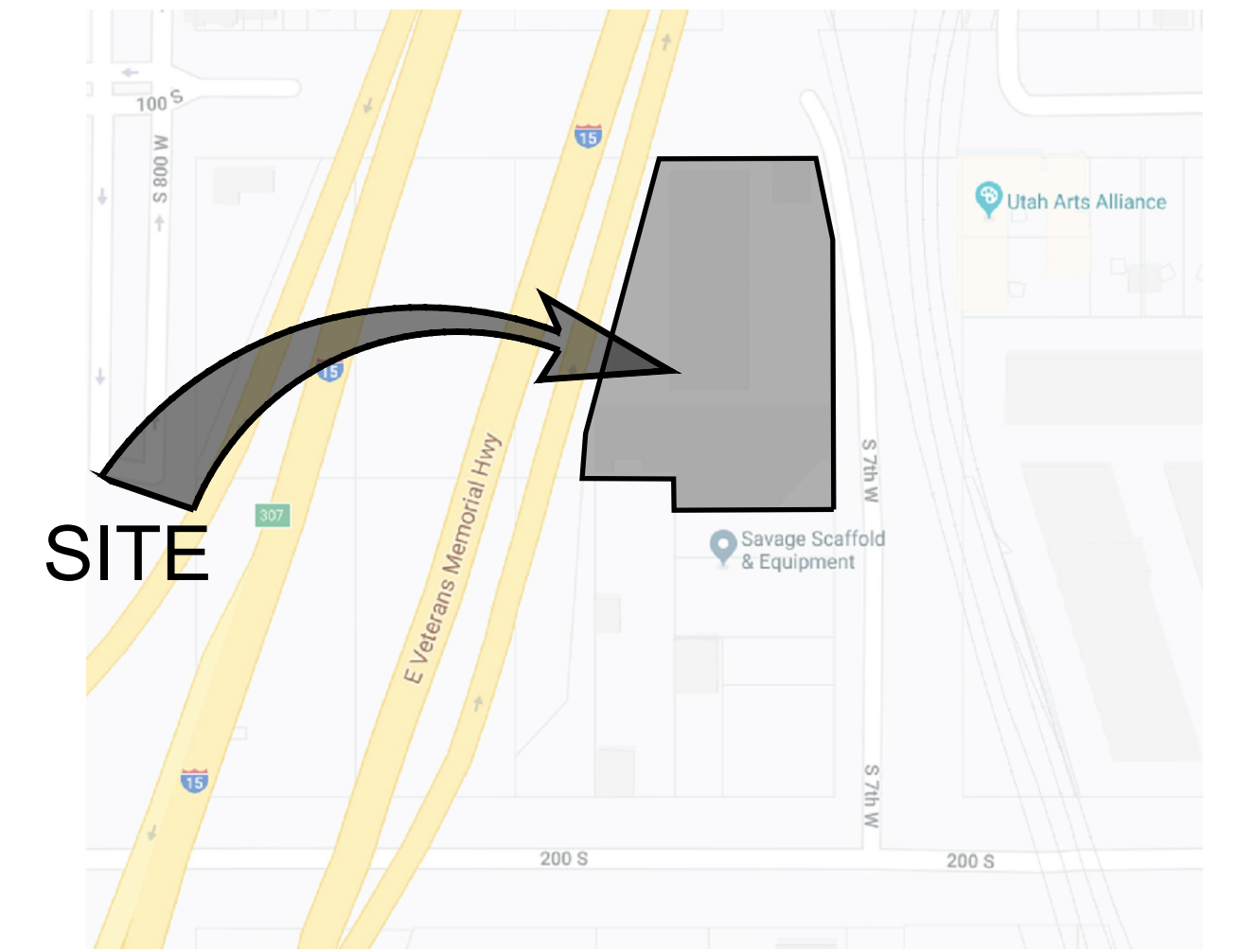


# GATEWAY SELF STORAGE CONSTRUCTION PLANS

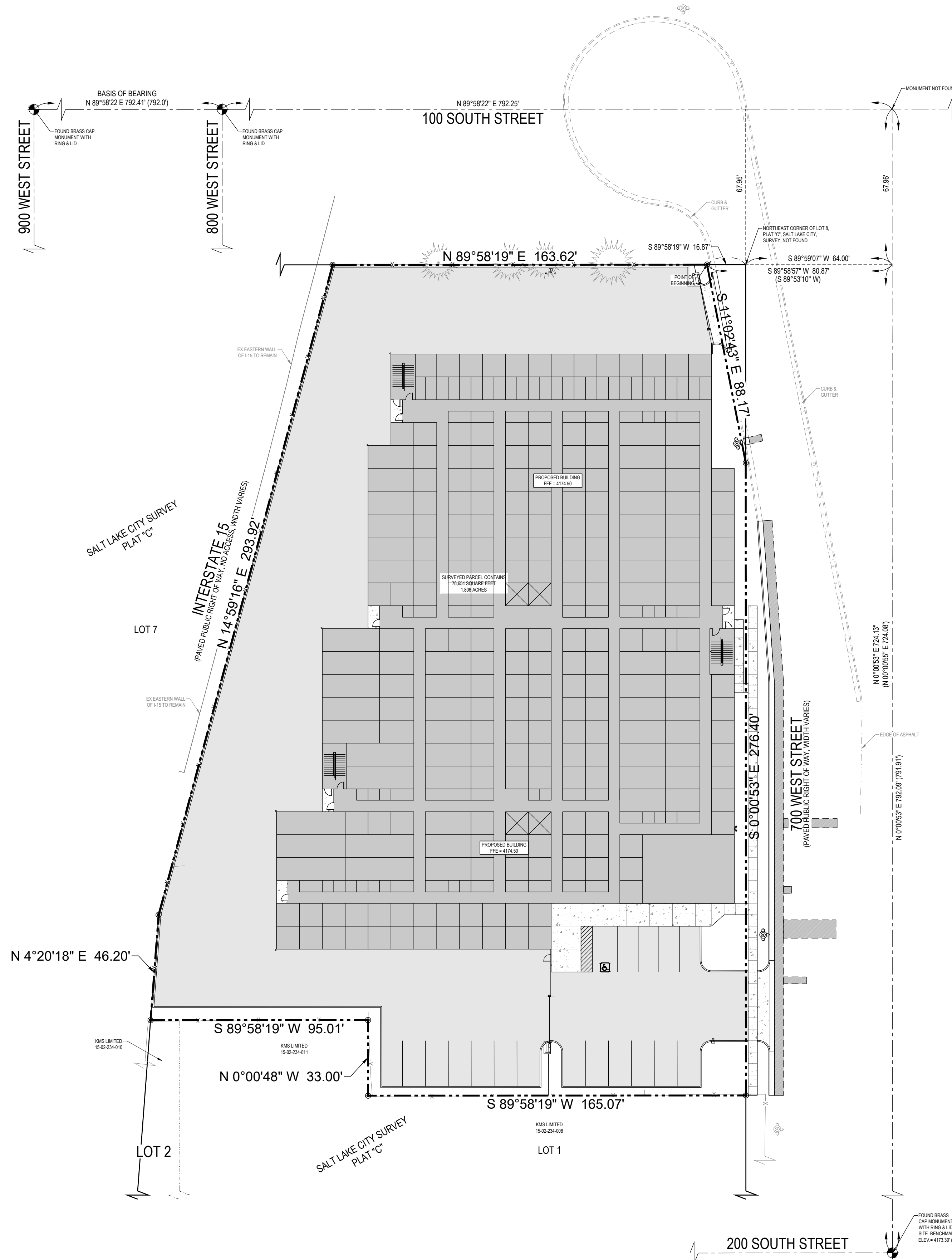
124 SOUTH 700 WEST  
SALT LAKE CITY, UTAH 84104  
LOCATED IN THE NE QUARTER OF SECTION 2  
T1S, R1W, SALT LAKE BASE & MERIDIAN

NORTH

SCALE: 1" = 30'



VICINITY MAP  
SCALE: N.T.S.



## DRAWING INDEX

SHEET	DESCRIPTION
C0.00	CIVIL COVER SHEET
C0.01	GENERAL NOTES, LEGEND AND ABBREVIATIONS
C1.01	HORIZONTAL CONTROL PLAN
C2.01	GRADING AND DRAINAGE PLAN
C2.10	EROSION CONTROL PLAN
C4.01	SITE UTILITY PLAN
C5.01	CIVIL DETAILS
C5.02	CIVIL DETAILS

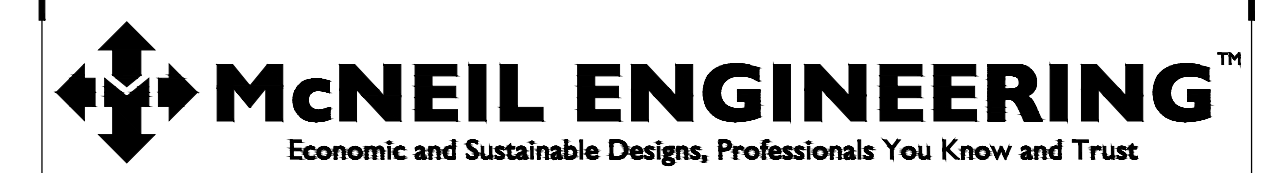
PRIOR TO WORKING IN THE PUBLIC RIGHT OF WAY, A LICENSED, INSURED, AND BONDED CONTRACTOR, WHO HAS SAID INFORMATION ON FILE WITH SLC ENGINEERING, MUST OBTAIN A PUBLIC RIGHT OF WAY PERMIT FROM SLC ENGINEERING AND PERHAPS A TRANSPORTATION PERMIT. ALL WORK IN PUBLIC RIGHT OF WAY SHALL FOLLOW APWA STANDARD PLANS.

ALL WORK AND MATERIALS FOR WATER MUST CONFORM TO SALT LAKE PUBLIC UTILITIES STANDARDS AND SPECIFICATIONS

ALL WORK AND MATERIALS FOR SEWER MUST CONFORM TO SALT LAKE PUBLIC UTILITIES STANDARDS AND SPECIFICATIONS

ALL WORK AND MATERIALS IN THE PUBLIC RIGHT-OF-WAY MUST CONFORM TO APWA AND SALT LAKE CITY STANDARD PRACTICES, STANDARDS AND SPECIFICATIONS

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Civil Engineering • Consulting & Landscape Architecture  
Structural Engineering • Land Surveying & HDS



**SALT LAKE CITY PUBLIC UTILITIES GENERAL NOTES**

**1. COMPLIANCE**

ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THESE CONTRACT DOCUMENTS AND THE MOST RECENT EDITIONS OF THE FOLLOWING: INTERNATIONAL PLUMBING CODE, UTAH DRINKING WATER REGULATIONS, APWA MANUAL OF STANDARD PLANS AND SPECIFICATIONS, AND SLC PUBLIC UTILITIES MODIFICATIONS TO APWA STANDARD PLANS AND APPROVED MATERIALS AND SLC PUBLIC UTILITIES APWA SPECIFICATIONS MODIFICATIONS. THE CONTRACTOR IS REQUIRED TO ADHERE TO ALL OF THE ABOVE-MENTIONED DOCUMENTS UNLESS OTHERWISE NOTED AND APPROVED IN WRITING BY THE SALT LAKE CITY DIRECTOR OF PUBLIC UTILITIES.

FUTURE CONSTRUCTION ACTIVITIES. EXISTING UTILITY INFORMATION OBTAINED FROM SLC PUBLIC UTILITIES MAPS MUST BE ASSUMED AS APPROXIMATE AND REQUIRING FIELD VERIFICATION. CONTACT BLUE STAKES OR APPROPRIATE OWNER FOR COMMUNICATION LINE LOCATIONS.

**D. UTILITY RELOCATION -**  
FOR UTILITY CONFLICTS REQUIRING MAINLINE RELOCATIONS, THE CONTRACTOR MUST NOTIFY THE APPLICABLE UTILITY COMPANY OR USER A MINIMUM OF 2 WEEKS IN ADVANCE. A ONE-WEEK MINIMUM NOTIFICATION IS REQUIRED FOR CONFLICTS REQUIRING THE RELOCATION OF SERVICE LATERALS. ALL RELOCATIONS ARE SUBJECT TO APPROVAL FROM THE APPLICABLE UTILITY COMPANY AND/OR USER.

**E. FIELD CHANGES -**  
NO ROADWAY UTILITY ALIGNMENT OR GRADE CHANGES ARE ALLOWED FROM THE APPROVED CONSTRUCTION PERMITS AND ASSESSMENTS WITHOUT WRITTEN APPROVAL FROM THE SLC PUBLIC UTILITIES DIRECTOR. CHANGES TO HYDRANT LOCATIONS AND/OR FIRE LINES MUST BE REVIEWED AND APPROVED BY THE SALT LAKE CITY OR SALT LAKE COUNTY FIRE DEPARTMENT (AS APPLICABLE TO THE PROJECT) AND PUBLIC UTILITIES.

**F. PUBLIC NOTICE TO PROJECTS IN THE PUBLIC WAY -**  
FOR APPROVED PROJECTS THE CONTRACTOR IS RESPONSIBLE TO PROVIDE AND DISTRIBUTE WRITTEN NOTICE TO ALL RESIDENTS LOCATED WITHIN THE PROJECT AREA AT LEAST 72 HOURS PRIOR TO CONSTRUCTION. WORK TO BE CONDUCTED WITHIN COMMERCIAL OR INDUSTRIAL AREAS MAY REQUIRE A LONGER NOTIFICATION PERIOD AND ADDITIONAL CONTRACTOR COORDINATION WITH PROPERTY OWNERS. THE WRITTEN NOTICE IS TO BE APPROVED BY THE SLC PUBLIC UTILITIES PROJECT ENGINEER.

**G. PUBLIC NOTICE FOR WATER MAIN SHUT DOWNS -**  
THROUGH THE SLC PUBLIC UTILITIES INSPECTOR AND WITH THE PUBLIC UTILITIES PROJECT ENGINEER APPROVAL, SLC PUBLIC UTILITIES MUST BE CONTACTED AND APPROVE ALL WATER MAIN SHUTDOWNS. ONCE APPROVED THE CONTRACTOR MUST NOTIFY ALL EFFECTED USERS BY WRITTEN NOTICE A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION. COMMERCIAL/INDUSTRIAL PRIOR TO THE WATER MAIN SHUT DOWN. PUBLIC UTILITIES MAY REQUIRE LONGER NOTICE PERIODS.

**H. WATER AND SEWER SEPARATION -**  
IN ACCORDANCE WITH UTAH'S DEPARTMENT OF HEALTH REGULATIONS, A MINIMUM TEN-FOOT HORIZONTAL AND 1.5-FOOT VERTICAL (WITH WATER ON TOP) SEPARATION IS REQUIRED. IF THESE CONDITIONS CANNOT BE MET, STATE AND SLC PUBLIC UTILITIES APPROVAL IS REQUIRED. ADDITIONAL CONSTRUCTION MEASURES WILL BE REQUIRED FOR THESE CONDITIONS.

**I. SALVAGE -**  
ALL METERS MUST BE RETURNED TO PUBLIC UTILITIES, AND AT PUBLIC UTILITIES REQUEST ALL SALVAGED PIPE AND/OR FITTINGS MUST BE RETURNED TO SLC PUBLIC UTILITIES (483-6727) LOCATED AT 1530 SOUTH WESTERLE.

**J. SEWER MAIN AND LATERAL CONSTRUCTION REQUIREMENTS -**  
SLC PUBLIC UTILITIES MUST APPROVE ALL SEWER CONNECTIONS. ALL SEWER LATERALS 6-INCHES AND SMALLER MUST WYE INTO THE MAINS PER SLC PUBLIC UTILITIES REQUIREMENTS. ALL 8-INCH AND LARGER SEWER CONNECTIONS MUST BE PETITIONED FOR AT PUBLIC UTILITIES (483-6762) AND CONNECTED AT A MANHOLE. INSIDE MANHOLES ARE NOT ALLOWED. A MINIMUM 4-FOOT BURY DEPTH IS REQUIRED ON ALL SEWER MAINS AND LATERALS. CONTRACTOR SHALL INSTALL INVERT COVERS ON ALL SEWER MANHOLES WITH THE PROJECT AREA.

CONTRACTOR TO PROVIDE AIR PRESSURE TESTING OF SEWER MAINS IN ACCORDANCE WITH PIPE MANUFACTURER RECOMMENDATIONS AND SALT LAKE CITY PUBLIC UTILITIES REQUIREMENTS. ALL PVC SEWER MAIN AND LATERAL TESTING SHALL BE IN ACCORDANCE WITH UNI-BELL UNI-8-88 RECOMMENDED PRACTICE FOR LOW PRESSURE AIR TESTING OF POLYETHYLENE PIPE. CONTRACTOR SHALL PROVIDE SEWER LATERAL WATER TESTING AS REQUIRED BY THE SALT LAKE CITY PUBLIC UTILITIES PROJECT ENGINEER OR INSPECTOR. A MINIMUM OF 9 FEET OF HEAD PRESSURE IS REQUIRED AS MEASURED VERTICALLY FROM THE HIGH POINT OF THE PIPELINE AND AT OTHER LOCATIONS ALONG THE PIPELINE AS DETERMINED BY THE SLC PUBLIC UTILITIES PROJECT ENGINEER OR INSPECTOR. TESTING TIME WILL BE NO LESS THAN AS SPECIFIED FOR THE AIR TEST DURATION IN TABLE 1 ON PAGE 12 OF UNI-8-88. ALL PIPES SUBJECT TO WATER TESTING SHALL BE FULLY VISIBLE TO THE INSPECTOR DURING TESTING. TESTING SHALL BE CONDUCTED IN THE PRESENCE OF A SLC PUBLIC UTILITIES REPRESENTATIVE. ALL VISIBLE LEAKAGE MUST BE REPAIRED TO THE SATISFACTION OF THE SLC PUBLIC UTILITIES ENGINEER OR INSPECTOR.

**K. WATER AND FIRE MAIN AND SERVICE CONSTRUCTION REQUIREMENTS -**  
SLC PUBLIC UTILITIES MUST APPROVE ALL FIRE AND WATER SERVICE CONNECTIONS. A MINIMUM 3-FOOT SEPARATION IS REQUIRED BETWEEN ALL WATER AND FIRE SERVICE TAPS INTO THE MAIN. ALL CONNECTIONS MUST BE MADE USING SLC PUBLIC UTILITIES REQUIREMENTS. A 5-FOOT MINIMUM BURY DEPTH (FINAL GRADE TO TOP OF PIPE) IS REQUIRED ON ALL WATER/FIRE LINES UNLESS OTHERWISE APPROVED BY PUBLIC UTILITIES. WATER LINE THRUST BLOCK AND RESTRAINTS ARE AS PER SLC APPROVED DETAIL DRAWINGS AND SPECIFICATIONS. ALL EXPOSED NUTS AND BOLTS SHALL BE COATED WITH CHEMICAL GREASE PLUS MINIMUM MIL THICKNESS OF PLASTIC. PROVIDE STAINLESS STEEL NUTS, BOLTS AND WASHERS FOR HIGH GROUNDWATER SATURATED CONDITIONS AT FLANGE FITTINGS, ETC.

ALL WATERLINES INSTALLATIONS AND TESTING TO BE IN ACCORDANCE WITH ANWA SECTIONS C600, C601, C651, C206, C200, C200, C303 ANWA MANUAL M11 AND ALL OTHER APPLICABLE ANWA, UPWS, ASTM AND ANSI SPECIFICATIONS RELEVANT TO THE INSTALLATION AND COMPLETION OF THE PROJECT. AMENDMENT TO SECTION C600 SECTION 4.1.1: CONSTRUCTION TO READ MINIMUM TEST PRESSURE SHALL NOT BE LESS THAN 200 P.S.I. GAUGED TO A HIGH POINT OF THE PIPELINE BEING TESTED. ALL MATERIALS USED FOR WATERWORKS PROJECTS TO BE RATED FOR 150 P.S.I. MINIMUM OPERATING PRESSURE.

CONTRACTOR IS TO INSTALL WATER SERVICE LINES, METER YOKES AND/OR ASSEMBLIES AND METER BOXES WITH LIDS LOCATED AS APPROVED ON THE PLANS PER APPLICABLE PUBLIC UTILITIES DETAIL DRAWINGS. METER BOXES ARE TO BE PLACED IN THE PARK STRIPS PERPENDICULAR TO THE WATERMAIN SERVICE TAP CONNECTION. ALL WATER METERS, CATCH BASINS, CLEANOUT BOXES, MANHOLES, DOUBLE CHECK VALVE DETECTOR ASSEMBLIES, REDUCED PRESSURE DETECTOR ASSEMBLIES AND BACKFLOW PREVENTION DEVICES MUST BE LOCATED OUTSIDE OF ALL APPROACHES, DRIVEWAYS, PEDESTRIAN WALKWAYS AND TRAVELED VEHICLES UNLESS OTHERWISE APPROVED ON PLANS.

BACKFLOW PREVENTORS ARE REQUIRED ON ALL IRRIGATION AND FIRE SPRINKLING TAPS PER PUBLIC UTILITIES AND SLC FIRE DEPARTMENT REQUIREMENTS. CONTRACTORS SHALL INSTALL BACKFLOW PREVENTION DEVICES ON FIRE SPRINKLER CONNECTIONS. DOUBLE CHECK VALVE ASSEMBLIES SHALL BE INSTALLED ON CLASS 1, 2 AND 3 SYSTEMS. REDUCED PRESSURE PRINCIPLE VALVES SHALL BE INSTALLED ON CLASS 4 SYSTEMS. ALL FIRE SPRINKLER BACKFLOW ASSEMBLIES SHALL CONFORM TO ASSE STANDARD 1048, 1013, 1047 AND 1015. THE CONTRACTOR SHALL BE RESPONSIBLE TO PERFORM BACKFLOW PREVENTION TESTS PER SALT LAKE CITY STANDARDS AND SUBMIT RESULTS TO PUBLIC UTILITIES. ALL TESTS MUST BE PERFORMED AND SUBMITTED TO PUBLIC UTILITIES WITHIN 10 DAYS OF INSTALLATION OR WATER TURN-ON. BACKFLOW TEST FORMS ARE AVAILABLE AT PUBLIC UTILITIES' CONTRACTS AND AGREEMENTS OFFICE.

**L. GENERAL WATER, SEWER AND STORM DRAIN REQUIREMENTS -**  
ALL WATER, FIRE AND SEWER SERVICES STUBBED TO A PROPERTY MUST BE USED OR WATER AND FIRE SERVICES MUST BE KILLED AT THE MAIN AND SEWER LATERALS CAPPED AT PROPERTY LINE PER PUBLIC UTILITIES REQUIREMENTS. ALLOWABLE SERVICES TO BE KEPT WILL BE AS DETERMINED BY THE PUBLIC UTILITIES PROJECT ENGINEER. ALL WATER AND FIRE SERVICE KILLS AND SEWER LATERAL CAPS ARE TO BE KILLED AND CAPPED AS DETERMINED AND VISUALLY VERIFIED BY THE ON-SITE PUBLIC UTILITIES INSPECTOR.

ALL MANHOLES, HYDRANTS, VALVES, CLEAN-OUT BOXES, CATCH BASINS, METERS, ETC. MUST BE RAISED OR LOWERED TO FINAL GRADE PER PUBLIC UTILITIES STANDARDS AND INSPECTOR REQUIREMENTS. CONCRETE COLLARS MUST BE CONSTRUCTED ON ALL MANHOLES. CLEANOUT BOXES, CATCH BASINS AND VALVES PER PUBLIC UTILITIES STANDARDS. ALL MANHOLE, CATCH BASIN, OR CLEANOUT BOX CONNECTIONS MUST BE MADE WITH THE PIPE CUT FLUSH WITH THE INSIDE OF THE BOX AND GROUTED OR SEALED AS REQUIRED BY THE PUBLIC UTILITIES INSPECTOR. ALL MANHOLE, CLEANOUT BOX OR CATCH BASIN DISCONNECTS MUST BE REPAIRED AND GROUTED AS REQUIRED BY THE ON-SITE PUBLIC UTILITIES INSPECTOR.

CONTRACTOR SHALL NOT ALLOW ANY GROUNDWATER OR DESIRS TO ENTER THE NEW OR EXISTING PIPE DURING CONSTRUCTION. UTILITY TRENCHING, BACKFILL, AND PIPE ZONE AS PER SLC PUBLIC UTILITIES, "UTILITY INSTALLATION DETAIL."

**M. STREETLIGHTS -**  
ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE MOST CURRENT SALT LAKE CITY STANDARDS AND N.E.C. NATIONAL ELECTRICAL CODE. A STREET LIGHTING PLAN SHOWING WIRING LOCATION, WIRING, VOLTAGE, POWER SOURCE, LOCATION, CONDUIT SIZE AND LOCATION SHALL BE SUBMITTED TO SALT LAKE CITY AND WILL BE APPROVED PRIOR TO CONSTRUCTION. NO DEVIATION OF STREETLIGHT, PULB BOXES, CONDUITS, AND ETC. LOCATIONS SHALL BE PERMITTED WITHOUT PRIOR WRITTEN APPROVAL FROM THE STREET LIGHTING PROGRAM MANAGER OR HIS/HER REPRESENTATIVE.

STREETLIGHT POLES SHALL NOT BE INSTALLED WITHIN 5 FEET OF A FIRE HYDRANT. THE LOCATION SHALL BE SUCH THAT IT DOES NOT HINDER THE OPERATION OF THE FIRE HYDRANT AND WATER LINE OPERATION VALVES.

STREETLIGHTS AND STREETLIGHT POLES SHALL NOT BE INSTALLED WITHIN 5 FEET FROM ANY TREE, UNLESS WRITTEN APPROVAL IS RECEIVED FROM THE STREET LIGHTING PROGRAM MANAGER. BRANCHES MAY NEED TO BE PRUNED AS DETERMINED BY THE INSPECTOR IN THE FIELD AT THE TIME OF INSTALLATION.

STREETLIGHTS SHALL NOT BE INSTALLED WITHIN 5 FEET FROM THE EDGE OF ANY DRIVEWAY. ANTI-SEIZE LUBRICANT SHALL BE USED ON ALL COVER BOLTS AND GROUND BOX BOLTS. ALL EXISTING STREET LIGHTING SHALL REMAIN OPERATIONAL DURING CONSTRUCTION UNLESS APPROVED IN WRITING BY THE STREET LIGHTING PROGRAM MANAGER.

IF APPROVED PLANS REQUIRE REMOVAL OF STREETLIGHT POLES DURING CONSTRUCTION THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE POLES WHILE THEY ARE DOWN. THE POLES SHALL BE STORED IN A SECURE LOCATION AND RAISED OFF THE GROUND. PICTURES SHALL BE TAKEN BEFORE THE POLES ARE REMOVED TO DOCUMENT THE CONDITION OF THE POLES BEFORE THEY WERE REMOVED. PICTURES SHALL BE SENT TO THE CITY. CONTRACTOR SHALL ENSURE THE POLES ARE IN SIMILAR CONDITION WHEN RESTORED TO THEIR ORIGINAL LOCATIONS.

IF APPROVED PLANS REQUIRE PERMANENT REMOVAL OF STREETLIGHT POLES THE CONTRACTOR SHALL COORDINATE SALVAGE AND/OR DISPOSAL OF POLES, FIXTURES, AND LIGHTS WITH THE STREET LIGHTING PROGRAM MANAGER. ANY STRUCTURE SUCH AS BLOCK WALLS, CHAIN LINK FENCES, RETAINING WALLS, ETC. SHALL LEAVE A MINIMUM OF EIGHTEEN (18) INCHES TO THE FACE OF THE STREETLIGHT POLE ON ALL SIDES.

**GENERAL NOTES**

**1.1 COMPLIANCE**

1. ALL WORK TO CONFORM TO GOVERNING MUNICIPALITY'S STANDARDS, SPECIFICATIONS AND REQUIREMENTS.  
2. 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), THE INTERNATIONAL PLUMBING CODE, STATE DRINKING WATER REGULATIONS, APWA MANUAL OF STANDARD PLANS AND SPECIFICATIONS, ADA ACCESSIBILITY GUIDELINES.  
3. ALL CONSTRUCTION SHALL BE AS SHOWN ON THESE PLANS. ANY REVISIONS MUST HAVE PRIOR WRITTEN APPROVAL.

**1.2 PERMITTING AND INSPECTIONS**  
1. 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.  
2. CONTRACTOR IS RESPONSIBLE FOR SCHEDULING AND NOTIFYING ARCHITECT/ENGINEER OR INSPECTOR 48 HOURS IN ADVANCE OF COVERING UP ANY PHASE OF CONSTRUCTION REQUIRING OBSERVATION.  
3. ANY WORK IN THE PUBLIC RIGHT-OF-WAY WILL REQUIRE PERMITS FROM THE APPROPRIATE, CITY, COUNTY OR STATE AGENCY CONTROLLING THE ROAD AND WITH APPROPRIATE INSPECTIONS.

**1.3 COORDINATION & VERIFICATION**  
1. 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 OR NECESSARY PLAN OR GRADE CHANGES. ALL DISCREPANCIES SHALL BE PAID TO THE CONTRACTOR FOR WORK HAVING TO BE REDONE DUE TO DIMENSIONS OR GRADES SHOWN INCORRECTLY ON THESE PLANS; IF NOT NOTIFIED AND NOTIFICATION OF CONFLICTS HAVE NOT BEEN OBTAINED THROUGH THE ATTENTION OF THE ARCHITECT/ENGINEER.  
2. CONTRACTOR MUST VERIFY ALL EXISTING CONDITIONS BEFORE BIDDING AND BRING UP ALL QUESTIONS BEFOREHAND. NO ALLOWANCE WILL BE MADE FOR DISCREPANCIES OR OMISSIONS THAT CAN BE EASILY OBSERVED.  
3. CONTRACTOR TO COORDINATE WITH ALL OTHER DISCIPLINES, INCLUDING BUT NOT LIMITED TO LANDSCAPE PLANS, SITE ELECTRICAL SITE LIGHTING PLANS AND ELECTRICAL SERVICE TO THE BUILDINGS), MECHANICAL PLANS FOR LOCATION OF SERVICES TO THE BUILDINGS), INCLUDING ARCHITECTURAL, ARCHITECTURAL SITE PLAN FOR DIMENSIONS, ACCESSIBLE ROUTES, ETC., NOT SHOWN ON CIVIL PLANS.  
4. CONTRACTOR IS TO COORDINATE LOCATION OF NEW TELEPHONE SERVICE, GAS SERVICE, CABLE, ETC. BUILDING WITH THE APPROPRIATE UTILITY COMPANY. FOR WIRELESS, CONTRACTOR TO FURNISH CONDUIT, PLWOOD BACKBOARD, AND GROUND WIRE, AS REQUIRED.

**1.4 SAFETY AND PROTECTION**  
1. CONTRACTOR IS SOLELY RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION.  
2. CONTRACTOR IS RESPONSIBLE FOR THE SAFETY OF THE PROJECT AND SHALL MEET ALL OSHA REQUIREMENTS.  
3. CONTRACTOR IS RESPONSIBLE FOR CONFORMING TO LOCAL AND FEDERAL CODES GOVERNING SHORING AND BRACING OF EXCAVATIONS AND TRENCHES, AND FOR THE PROTECTION OF WORKS AND PUBLIC.  
4. 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.  
5. CONTRACTOR IS REQUIRED TO KEEP ALL CONSTRUCTION ACTIVITIES WITHIN THE APPROVED PROJECT LIMITS. THIS INCLUDES, BUT IS NOT LIMITED TO, VEHICLE AND EQUIPMENT STAGING, STORAGE OF MATERIALS, AND THE LOCATION OF TRUCKS AND EQUIPMENT.  
6. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN PERMISSION AND/OR EASEMENTS FROM THE APPROPRIATE GOVERNMENT AGENCY AND/OR INDIVIDUAL PROPERTY OWNERS FOR WORK OR STAGING OUTSIDE OF THE PROJECT LIMITS.  
7. CONTRACTOR SHALL PROVIDE BARRICADES, SIGNS, FLASHERS, OTHER EQUIPMENT AND FLAG PERSONS NECESSARY TO INSURE THE SAFETY OF WORKERS AND VISITORS. ALL CONSTRUCTION SIGNING, BARRICADES, AND TRAFFIC DELINEATION SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES' LATEST EDITION.  
8. CONTRACTOR SHALL COMPLY WITH LOCAL NOISE ORDINANCE STANDARDS.  
9. CONTRACTOR IS RESPONSIBLE FOR DUST CONTROL ACCORDING TO GOVERNING AGENCY STANDARDS.  
10. 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. SUBMIT A STORM WATER POLLUTION PREVENTION PLAN, IF REQUIRED.  
11. WORK IN PUBLIC STREETS, ONCE BEGUN, SHALL BE PROSECUTED TO COMPLETION WITHOUT DELAY AS TO PROVIDE MINIMUM INCONVENIENCE TO ADJACENT PROPERTY OWNERS AND TO THE TRAVEL PUBLIC.  
12. 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.  
13. NATURAL VEGETATION AND SOIL COVER SHALL NOT BE DISTURBED PRIOR TO ACTUAL CONSTRUCTION OF A REQUIRED FACILITY OR IMPROVEMENT. MASS CLEARING OF THE SITE IN ANTICIPATION OF CONSTRUCTION SHALL BE AVOIDED. CONSTRUCTION TRAFFIC SHALL BE LIMITED TO ONE APPROACH TO THE SITE. THE APPROACH SHALL BE DESIGNATED BY THE OWNER OR GOVERNING AGENCY.  
14. THE CONTRACTOR SHALL TAKE REASONABLE MEASURE TO PROTECT EXISTING IMPROVEMENTS FROM DAMAGE AND ALL SUCH IMPROVEMENTS DAMAGED BY THE CONTRACTORS OPERATION SHALL BE REPAIRED OR RECONSTRUCTED TO THE ENGINEER/OWNERS SATISFACTION AT THE EXPENSE OF THE CONTRACTOR.

**1.5 MATERIALS**  
1. SITE CONCRETE SHALL BE A MINIMUM 6.5 BAG MIX, 4000 P.S.I. @ 28 DAYS, 4" MAXIMUM SLUMP WITH 5 - OR - 1% AIR ENTRAINMENT, UNLESS SPECIFIED OTHERWISE. SEE SPECIFICATION A. SLABS ON-GRADE WILL BE TYPICALLY SCORED (1/4 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 CURB AND AT EQUAL INTERVALS NOT TO EXCEED 50 FEET.  
B. CONCRETE WATERWAYS, CURB/WALLS, MONISTRIPS, DIRECTION AND GUTTER, ETC. WILL TYPICALLY BE SCORED (1/4 THE DEPTH) AT INTERVALS NOT TO EXCEED 10 FEET AND HAVE FULL DEPTH EXPANSION JOINTS AT EQUAL SPACING NOT TO EXCEED 50 FEET.  
C. UNLESS OTHERWISE NOTED, ALL SLABS-ON-GRADE WILL HAVE A MINIMUM 8" TURNED-DOWN EDGE TO HELP CONTROL FROST HEAVE.  
D. UNLESS OTHERWISE NOTED, ALL ON-GRADE CONCRETE WILL BE PLACED ON A MINIMUM 4" GRAVEL BASE OVER A WELL COMPACTED (90%) SUBGRADE.  
E. ALL EXPOSED SURFACES WILL HAVE A TEXTURED FINISH, RUBBED OR BROOMED. ANY "FLAKING" OF NEW CONCRETE WILL BE DONE WHILE IT IS STILL "GREEN".  
F. ALL JOINTS (CONTROL, CONSTRUCTION OR EXPANSION JOINTS, ETC.) WILL BE SEALED WITH A ONE PART POLYURETHANE SEALANT (SEE SPECIFICATION).  
2. ASPHALTIC CONCRETE PAVEMENT SHALL BE A MINIMUM 9" OVER 8" OF COMPACTED (95%) ROAD BASE OVER PROPERLY PREPARED AND COMPACTED (90%) SUBGRADE, UNLESS NOTED OTHERWISE. SEE SPECIFICATIONS, AND DETAIL 'D' SHEET CS 01  
A. ASPHALT COMPACTON SHALL BE A MINIMUM 95% MARSHALL DESIGN.  
B. SURFACE COURSE SHALL BE 4" MINUS MIX DESIGN TO BE SUBMITTED FOR APPROVAL AT LEAST TWO WEEKS PRIOR TO ANTICIPATED PAVING SCHEDULE.  
C. AG PAVEMENT TO BE A 1" ABOVE LIP OF ALL GUTTER AFTER COMPACTION.  
D. THICKNESSES OVER 2" WILL BE LAD IN TWO LIFTS WITH THE FIRST LIFT BEING AN APPROVED 3/4" MINUS DESIGN.

**1.6 GRADING / SOILS**  
1. SITE GRADING SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND THE RECOMMENDATIONS SET FORTH IN THE SOILS REPORT, WHICH BY REFERENCE ARE A PART OF THE REQUIRED CONSTRUCTION DOCUMENTS AND IN CASE OF CONFLICT SHALL TAKE PRECEDENCE, UNLESS SPECIFICALLY NOTED OTHERWISE ON THE PLANS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCY BETWEEN THE SOILS REPORT AND THESE PLANS.  
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND REPLACING ALL SOFT, HELDOUT OR UNSUITABLE MATERIALS AND REPLACING WITH SUITABLE MATERIALS AS SPECIFIED IN THE SOILS REPORT.  
3. 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% OF MAXIMUM DENSITY. MOISTURE CONTENT AT TIME OF PLACEMENT SHALL NOT EXCEED 2% ABOVE NOR 3% BELOW OPTIMUM.  
4. CONTRACTOR SHALL SUBMIT A COMPACTION REPORT PREPARED BY A QUALIFIED REGISTERED GEOTECHNICAL ENGINEER VERIFYING THAT ALL FILLED AREAS AND SUBGRADE AREAS WITH THE BUILDING PAD AREA AND AREAS TO BE PAVED, HAVE BEEN COMPACTED IN ACCORDANCE WITH THESE PLANS AND THE RECOMMENDATIONS SET FORTH IN THE SOILS REPORT.  
5. SITE CLEARING SHALL INCLUDE THE LOCATING AND REMOVAL OF ALL UNDERGROUND TANKS, SPRING VALVES, ETC.  
6. ALL EXISTING VALVES, MANHOLES, ETC. SHALL BE RAISED OR LOWERED TO GRADE AS REQUIRED.

**GENERAL NOTES: CONTINUED**

**1.7 UTILITIES**

1. THE LOCATIONS OF UNDERGROUND FACILITIES SHOWN ON THESE PLANS ARE BASED ON FIELD SURVEYS AND LOCAL UTILITY COMPANY RECORDS. 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.  
2. CONTRACTOR TO VERIFY BY POT-HOLING BOTH THE VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UTILITIES PRIOR TO INSTALLATION OF NEW LINES. NO ADDITIONAL COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR DAMAGE AND REPAIR TO THESE FACILITIES CAUSED BY HIS WORK FORCE.  
3. CONTRACTOR MUST START AT LOW END OF ALL NEW GRAVITY UTILITY LINES. MECHANICAL SUB-CONTRACTOR MUST BE PROVIDED CIVIL SITE DRAWINGS FOR COORDINATION AND TO CHECK THE FLOW FROM THE LOWEST POINT IN BUILDING TO THE FIELD VERIFIED CONNECTION AT THE EXISTING MAIN. NO EXTRA COMPENSATION IS TO BE PAID TO THE CONTRACTOR FOR SURE THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED.  
4. CONTRACTOR IS TO VERIFY LOCATION, DEPTH, SIZE, TYPE, AND OUTSIDE DIAMETERS OF UTILITIES IN THE FIELD BY POT-HOLING A MINIMUM OF 300 FEET AHEAD, PIPELINE CONSTRUCTION TO AVOID CONFLICTS WITH DESIGNED PIPELINE GRADE AND ALIGNMENT. EXISTING UTILITY INFORMATION SHOWN ON PLANS OR OBTAINED FROM UTILITY COMPANIES OR BLUE STAKE MUST BE ASSUMED AS APPROXIMATE, REQUIRING FIELD VERIFICATION.  
5. CULINARY WATER AND FIRE SERVICE LINES TO BE CONSTRUCTED IN ACCORDANCE WITH LOCAL GOVERNING MUNICIPALITY STANDARDS AND SPECIFICATIONS.  
6. SANITARY SEWER MAINS AND LATERALS TO BE CONSTRUCTED IN ACCORDANCE WITH LOCAL GOVERNING MUNICIPALITY SEWER DISTRICT STANDARDS AND SPECIFICATIONS.  
7. STORM SEWER TO BE CONSTRUCTED IN ACCORDANCE WITH THE GOVERNING MUNICIPALITY STANDARDS AND SPECIFICATIONS.  
8. ALL STORM DRAIN AND IRRIGATION CONDUITS SHALL BE INSTALLED WITH WATER TIGHT JOINTS AND CONNECTIONS.  
9. 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. CONDUITS SHALL BE CUT OFF FLUSH WITH THE INSIDE OF THE BOX.  
10. NO CHANGE IN THE DESIGN OF UTILITIES AS SHOWN WILL BE MADE BY THE CONTRACTOR WITHOUT THE WRITTEN APPROVAL OF THE GOVERNING MUNICIPALITY, OR OTHER AUTHORITY HAVING JURISDICTION OVER THAT UTILITY.  
11. 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**  
1. CONTRACTOR MUST PROVIDE A REGISTERED LAND SURVEYOR OR PERSONS UNDER THE SUPERVISION OF A REGISTERED LAND SURVEYOR TO SET STAKES FOR THE ALIGNMENT AND GRADE OF EACH MAIN AND/OR FACILITY AS SHOWN ON THE PLANS. THE STAKES SHALL BE MARKED WITH THE HORIZONTAL LOCATION (STATION) AND VERTICAL LOCATION (GRADE) WITH CUTS AND/OR FILLS TO THE APPROVED GRADE OF THE MAIN AND OR FACILITY AS SHOWN ON THE PLANS.  
2. THE CONTRACTOR SHALL PROTECT ALL STAKES AND MARKERS FOR VERIFICATION PURPOSES.  
3. CONTRACTOR WILL BE RESPONSIBLE FOR FURNISHING, MAINTAINING, OR RESTORING ALL MONUMENTS AND REFERENCE MARKS WITHIN THE PROJECT SITE.

**1.9 AMERICAN DISABILITIES ACT**  
1. 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.  
2. ADA PARKING STALLS AND ADJACENT ROUTES SHALL HAVE A 2.00% MAXIMUM SURFACE SLOPE IN ANY DIRECTION.  
3. 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.

NEW	EXISTING	NEW	EXISTING	LEGEND
---	---	---	---	MONUMENT LINE
---	---	---	---	CENTER LINE
---	---	---	---	SUBJECT PROPERTY LINE
---	---	---	---	ADJACENT PROPERTY LINE
---	---	---	---	EASEMENT LINE
---	---	---	---	DITCH FLOWLINE
X	X	X	X	FENCE LINE
ATMS	atms	ATMS	atms	ATMS CABLE
TV	tv	TV	tv	CABLE TV LINE
C	c	C	c	COMMUNICATIONS LINE
FO	fo	FO	fo	FIBER-OPTIC CABLE
F	f	F	f	FIRE LINE
IRR	ir	IRR	ir	IRRIGATION LINE
G	g	G	g	NATURAL GAS LINE
OWC	owc	OWC	owc	OVERHEAD COMMUNICATIONS
OWP	owp	OWP	owp	OVERHEAD POWER LINE
OHT	oht	OHT	oht	OVERHEAD TELEPHONE LINE
OHTV	ohtv	OHTV	ohtv	OVERHEAD TELEVISION LINE
P	p	P	p	POWER LINE
PC	pc	PC	pc	POWER/COMMUNICATIONS LINE
PT	pt	PT	pt	POWER/TELEPHONE LINE
PTIC	ptic	PTIC	ptic	POWER/TELECOM LINE
RD	rd	RD	rd	ROOF DRAIN LINE
SW	sw	SW	sw	SECONDARY WATER LINE
S	s	S	s	SANITARY SEWER LINE
ST	st	ST	st	STEAM LINE
SD	sd	SD	sd	STORM DRAIN LINE
T	t	T	t	TELEPHONE LINE
TC	tc	TC	tc	TELEPHONE/COMM LINE
UD	ud	UD	ud	UNDERDRAIN
UGC	ugc	UGC	ugc	UNDERGROUND COMMUNICATIONS
UGP	ugp	UGP	ugp	UNDERGROUND POWER LINE
UGT	ugt	UGT	ugt	UNDERGROUND TELEPHONE LINE
UGTV	ugtv	UGTV	ugtv	UNDERGROUND TELEVISION
W	w	W	w	WATER LINE
121	121	121	121	CONTOUR LINE
---	---	---	---	CURB & GUTTER (STD)
---	---	---	---	CURB & GUTTER (OUTFALL)
---	---	---	---	44.00 TOC
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---	---	---	---	DECIDUOUS TREE

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8010 South Sandy Parkway, Suite 200 Sandy, Utah 84070 801.253.7700 mceengineering.com

**PROFESSIONAL ENGINEER**  
No. 37547-2202  
**ROBERT J. POIRIER**  
03-04-20  
STATE OF UTAH

**GATEWAY SELF STORAGE**

**124 SOUTH 700 WEST**  
SALT LAKE CITY, UTAH 84104  
LOCATED IN THE NE QUARTER OF SECTION 2, T1S, R1W, S1B&M

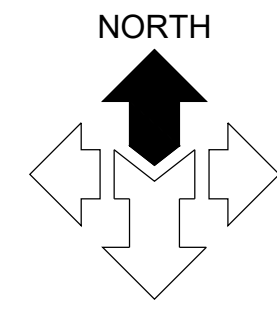
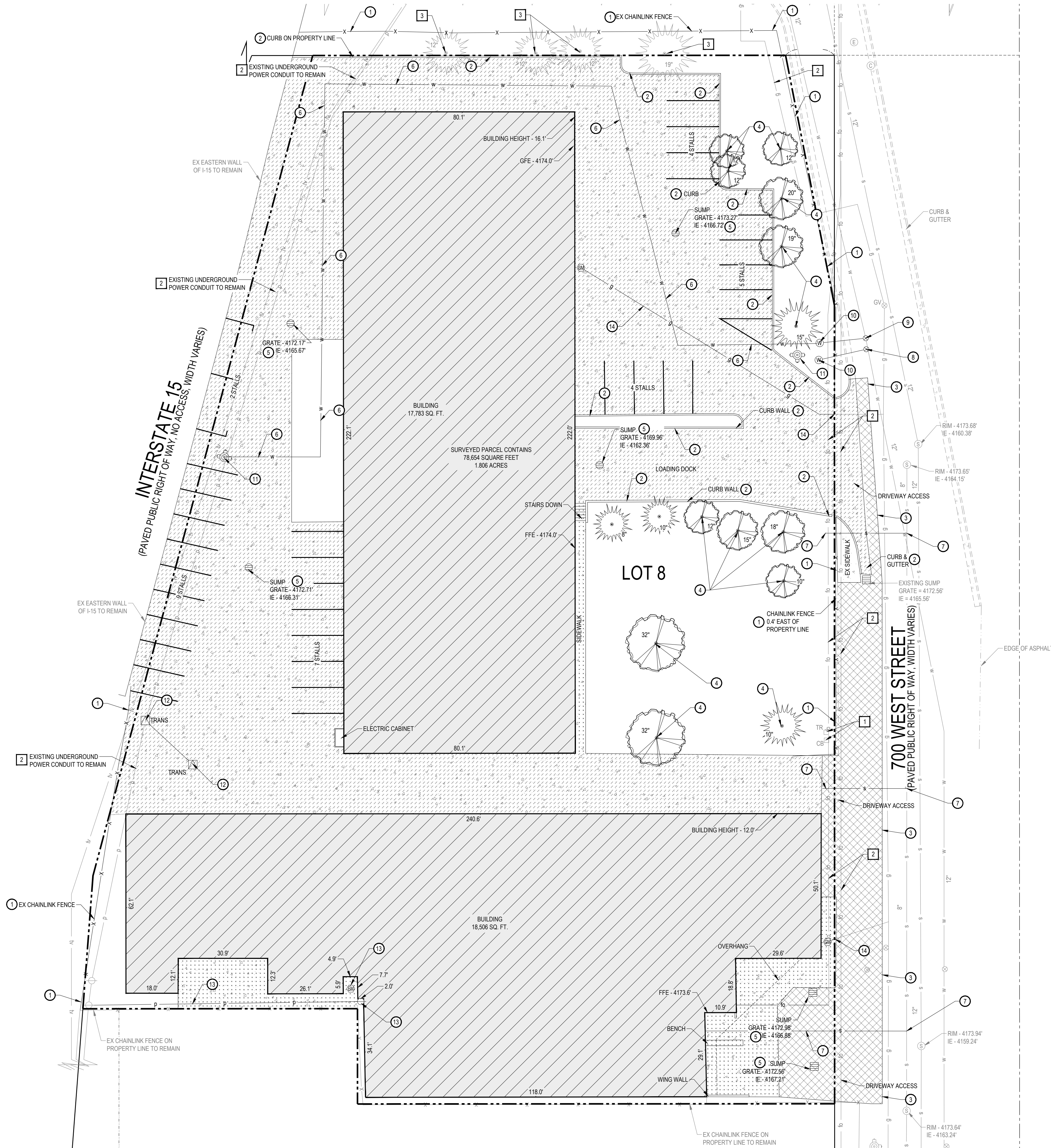
**GENERAL NOTES, LEGEND AND ABBREVIATIONS**

**CO.01**

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SCALE: 1" = 20'



**GENERAL NOTES:**

ALL WORK TO COMPLY WITH GOVERNING AGENCIES STANDARDS AND SPECIFICATIONS.  
COORDINATE WITH GOVERNING AGENCY PRIOR TO DEMOLITION OF ANY PUBLIC UTILITY.

UTILITY TYPE	PROVIDER
WATER	SALT LAKE CITY PUBLIC UTILITIES
STORM	SALT LAKE CITY PUBLIC UTILITIES
COMMUNICATIONS	COMCAST
COMMUNICATIONS	CENTURY LINK
COMMUNICATIONS	INTEGRA
SANITARY SEWER	SALT LAKE CITY PUBLIC UTILITIES
NATURAL GAS	DOMINION ENERGY
POWER	ROCKY MOUNTAIN POWER

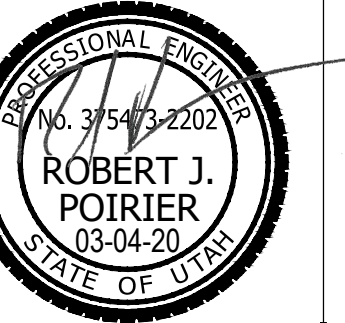
**KEYED NOTES:**

DEMOLISH AND/OR REMOVE THE FOLLOWING PER THE SPECIFICATIONS GIVEN OR REFERENCED AND THE DETAILS NOTED AND AS SHOWN ON THE CONSTRUCTION DRAWINGS:

- 1 EXISTING BUILDING/STRUCTURE/BASEMENT (INCLUDING WALLS, FOOTINGS, CONCRETE SLABS, DECKS, OVERHANGS, AWNINGS, ETC.) TO BE REMOVED/DEMOLISHED AND PROPERLY DISPOSED OF.
- 2 EXISTING ASPHALT PAVEMENT TO BE REMOVED/DEMOLISHED AND PROPERLY DISPOSED OF.
- 3 EXISTING CONCRETE PAVEMENT TO BE REMOVED/DEMOLISHED AND PROPERLY DISPOSED OF.
- 4 EXISTING CONCRETE FLATWORK TO BE REMOVED/DEMOLISHED AND PROPERLY DISPOSED OF.

- 5 EXISTING SITE FEATURES (FENCES, GATES, BOLLARDS, IRRIGATION GATES, WHEEL STOPS, LANDSCAPING, GROUND LIGHTING, IRRIGATION, MOWSTRIPS, ETC.) TO BE REMOVED/DEMOLISHED AND PROPERLY DISPOSED OF.
- 6 EXISTING CONCRETE CURB AND GUTTER AND/OR CURB WALL TO BE REMOVED/DEMOLISHED AND PROPERLY DISPOSED OF.
- 7 SAWCUT EXISTING ASPHALT.
- 8 EXISTING TREE(S) TO BE REMOVED AND PROPERLY DISPOSED OF.
- 9 EXISTING UNDERGROUND SUMP TO BE REMOVED/DEMOLISHED AND PROPERLY DISPOSED OF.
- 10 APPROXIMATE LOCATION OF EXISTING UNDERGROUND PRIVATE WATER LINE. CONTRACTOR TO FIELD VERIFY LOCATION OF PIPE AND REMOVE ANY PORTION OF PIPE THAT IS INSIDE PROPOSED BUILDING FOOTPRINT.
- 11 EXISTING SANITARY SEWER LATERAL TO BE CAPPED AT THE MAIN, PER SALT LAKE CITY PUBLIC UTILITIES STANDARDS AND SPECIFICATIONS.
- 12 EXISTING 2" WATER SERVICE TO BE KILLED AT MAIN, PER SALT LAKE CITY PUBLIC UTILITIES STANDARDS AND SPECIFICATIONS.
- 13 EXISTING 8" DETECTOR CHECK VALVE TO BE KILLED AT MAIN, PER SALT LAKE CITY PUBLIC UTILITIES STANDARDS AND SPECIFICATIONS AND CONCRETE METER VAULT TO BE REMOVED. REMOVE EXISTING 12" X 8" TEE AND REPLACE WITH SOLID SECTION OF PIPE.
- 14 CONTRACTOR TO REMOVE EXISTING WATER METER EQUIPMENT AND COORDINATE THE RETURN TO PER SALT LAKE CITY PUBLIC UTILITIES. EXISTING WATER METER VAULT AND ASSOCIATED WATER SERVICE LINE TO BE REMOVED/DEMOLISHED AND PROPERLY DISPOSED OF.
- 15 EXISTING FIRE HYDRANT AND ASSOCIATED VALVE TO BE REMOVED AND PROPERLY DISPOSED OF.
- 16 EXISTING ABOVE-GROUND UTILITY STRUCTURE (TRANSFORMER, SWITCHGEAR, PEDESTAL, PULL BOX, UTILITY PAD, JUNCTION BOX, ETC.) TO BE REMOVED AND PROPERLY DISPOSED OF.
- 17 COORDINATE WITH ROCKY MOUNTAIN POWER FOR REMOVAL OF POWER POLE AND OVERHEAD POWER LINE AND ELECTRIC METERS.
- 18 COORDINATE WITH DOMINION ENERGY TO PINCH EXISTING GAS SERVICE AT PROPERTY LINE AND REMOVE EXISTING GAS SERVICE LINE ON THE PROPERTY.
- 19 PRESERVE AND PROTECT EXISTING ABOVE-GROUND UTILITY STRUCTURE. CONTRACTOR TO TAKE NECESSARY PRECAUTIONS TO PROTECT EXISTING UTILITY FROM DAMAGE DURING CONSTRUCTION.
- 20 PRESERVE AND PROTECT EXISTING UNDERGROUND UTILITY LINE. CONTRACTOR TO TAKE NECESSARY PRECAUTIONS TO PROTECT EXISTING UTILITY FROM DAMAGE DURING CONSTRUCTION.
- 21 PRESERVE AND PROTECT EXISTING TREE. CONTRACTOR TO TAKE NECESSARY PRECAUTIONS TO PROTECT EXISTING TREE FROM DAMAGE DURING CONSTRUCTION.

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Structural Engineering • Land Surveying & HDS



**GATEWAY SELF STORAGE**

124 SOUTH 700 WEST  
SALT LAKE CITY, UTAH 84104  
LOCATED IN THE NE QUARTER OF SECTION 2, T1S, R1W, S1B&M

REV	DATE	DESCRIPTION

PROJECT NO: 20117  
DRAWN BY: CCW  
CHECKED BY: RJP  
DATE: MARCH 4, 2020

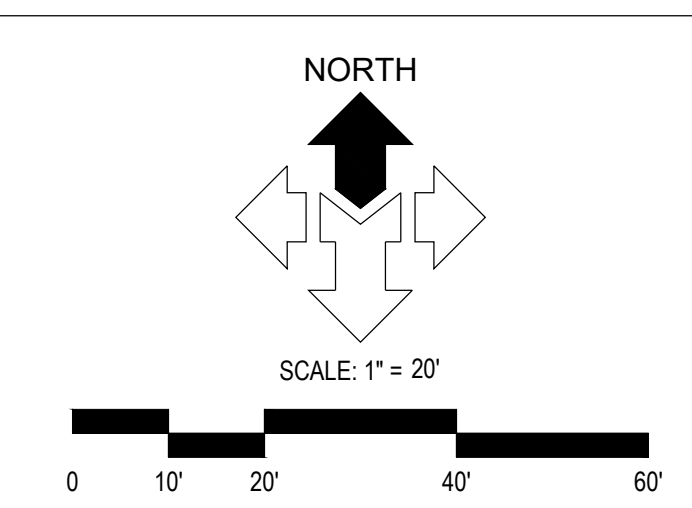
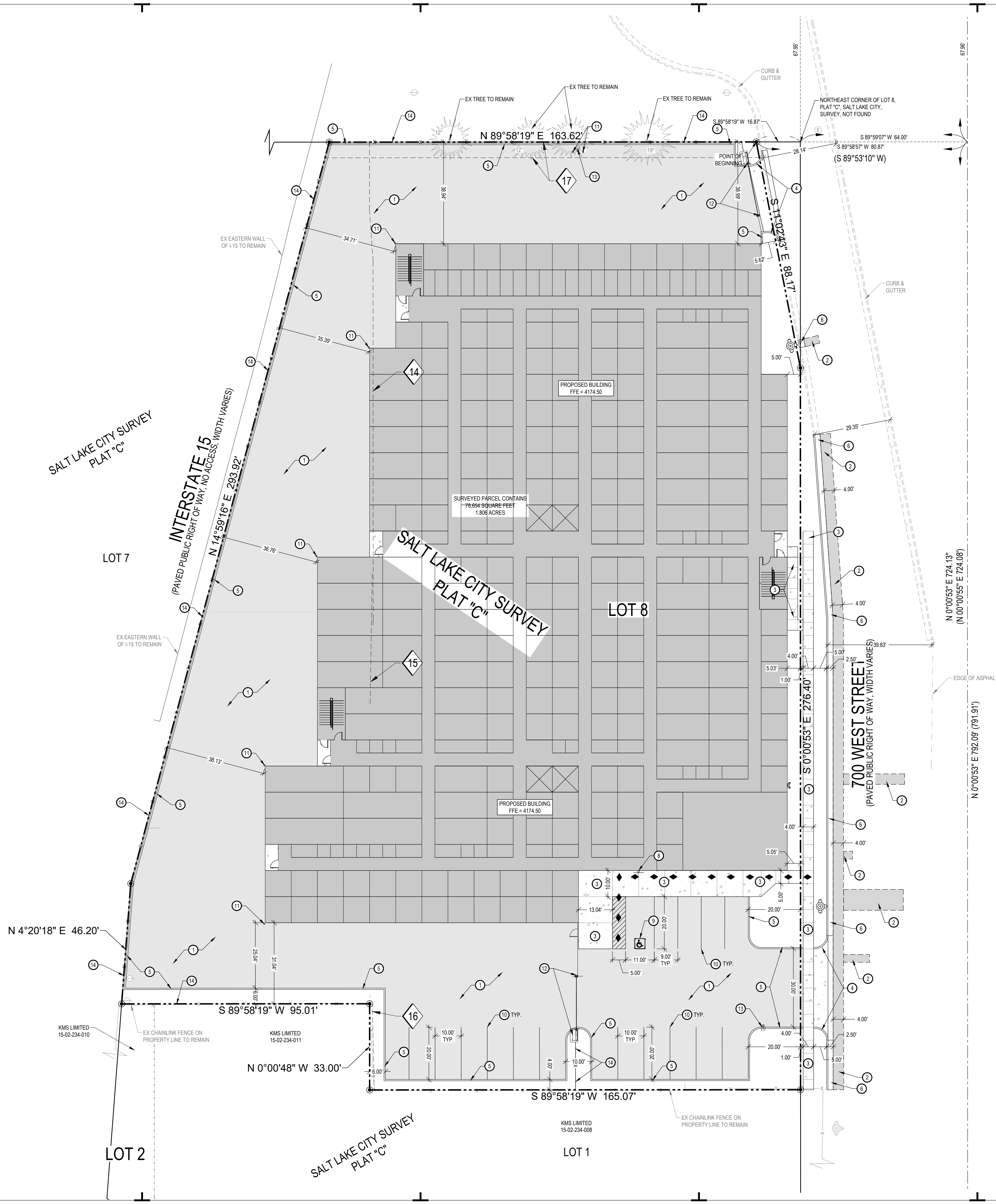
**DEMOLITION PLAN**

**C0.10**



**NOTICE!**  
THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION, PROTECTION, AND RESTORATION OF ALL BURIED OR ABOVE GROUND UTILITIES, SHOWN OR NOT SHOWN ON THE PLANS.



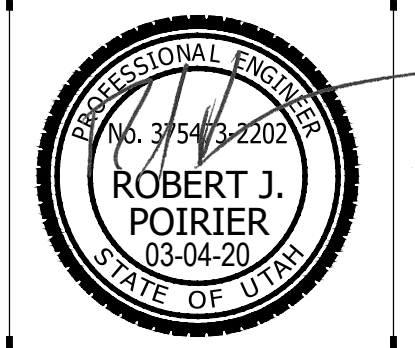


DESCRIPTION	AREA	%
HARDSCAPE	31,644 SQFT	40%
LANDSCAPE	3,910 SQFT	5%
BUILDINGS	43,100 SQFT	55%
TOTAL	78,654 SQFT	100%

**GENERAL NOTES:**  
 ALL DIMENSIONS ARE TO THE FACE OF CURB, UNLESS OTHERWISE NOTED.  
 SEE ARCHITECT'S SITE PLAN FOR ADDITIONAL INFORMATION.  
 SEE LANDSCAPE PLANS FOR IRRIGATION AND PLANTING.  
 ALL WORK TO COMPLY WITH SALT LAKE CITY'S STANDARDS AND SPECIFICATIONS.  
 ALL IMPROVEMENTS MUST COMPLY WITH ADA STANDARDS AND RECOMMENDATIONS.

- KEYED NOTES:**  
 PROVIDE, INSTALL AND/OR CONSTRUCT THE FOLLOWING PER THE SPECIFICATIONS GIVEN OR REFERENCED AND THE DETAILS NOTED AND AS SHOWN ON THE CONSTRUCTION DRAWINGS:
- ① STANDARD DUTY ASPHALT PAVEMENT WITH GRANULAR BASE PER DETAIL 'A1', SHEET C5.01.
  - ② ASPHALT T-PATCH, PER APWA PLAN NO. 255.
  - ③ CONCRETE SIDEWALK, PER APWA PLAN NO. 231.
  - ④ CONCRETE OPEN DRIVE APPROACH, PER APWA PLAN NO. 225.
  - ⑤ CONCRETE CURB WALL, SEE DETAIL 'B1', SHEET C5.01.
  - ⑥ 30" CONCRETE CURB AND GUTTER, PER APWA PLAN NO. 205.1 TYPE 'A'.
  - ⑦ NOT USED.
  - ⑧ VAN ACCESSIBLE ADA PARKING SIGN, SEE DETAIL 'B3', SHEET C5.01.
  - ⑨ PAINTED ADA SYMBOL, SEE DETAIL 'B4', SHEET C5.01.
  - ⑩ 4" WIDE SOLID YELLOW PARKING STALL STRIPE LINES.
  - ⑪ BOLLARD, SEE DETAIL 'A3', SHEET C5.01.
  - ⑫ AUTO GATE, SEE ARCHITECTURAL PLANS FOR DETAILS.
  - ⑬ KEY PAD FOR AUTO GATE, SEE ARCHITECTURAL PLANS FOR DETAILS.
  - ⑭ NEW SECURITY FENCE, SEE ARCHITECTURAL PLANS FOR DETAILS.
  - ◆ ACCESSIBLE ROUTE WITH MAXIMUM 1:48 CROSS-SLOPE AND MAXIMUM 1:20 RUNNING-SLOPE.

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 124 SOUTH 700 WEST  
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REV	DATE	DESCRIPTION

PROJECT NO: 20117  
 DRAWN BY: CCW  
 CHECKED BY: RJP  
 DATE: MARCH 4, 2020

**HORIZONTAL CONTROL PLAN**

**C1.01**

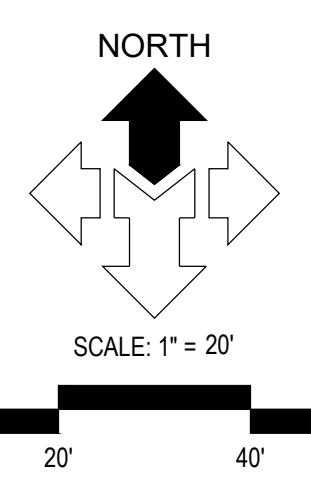
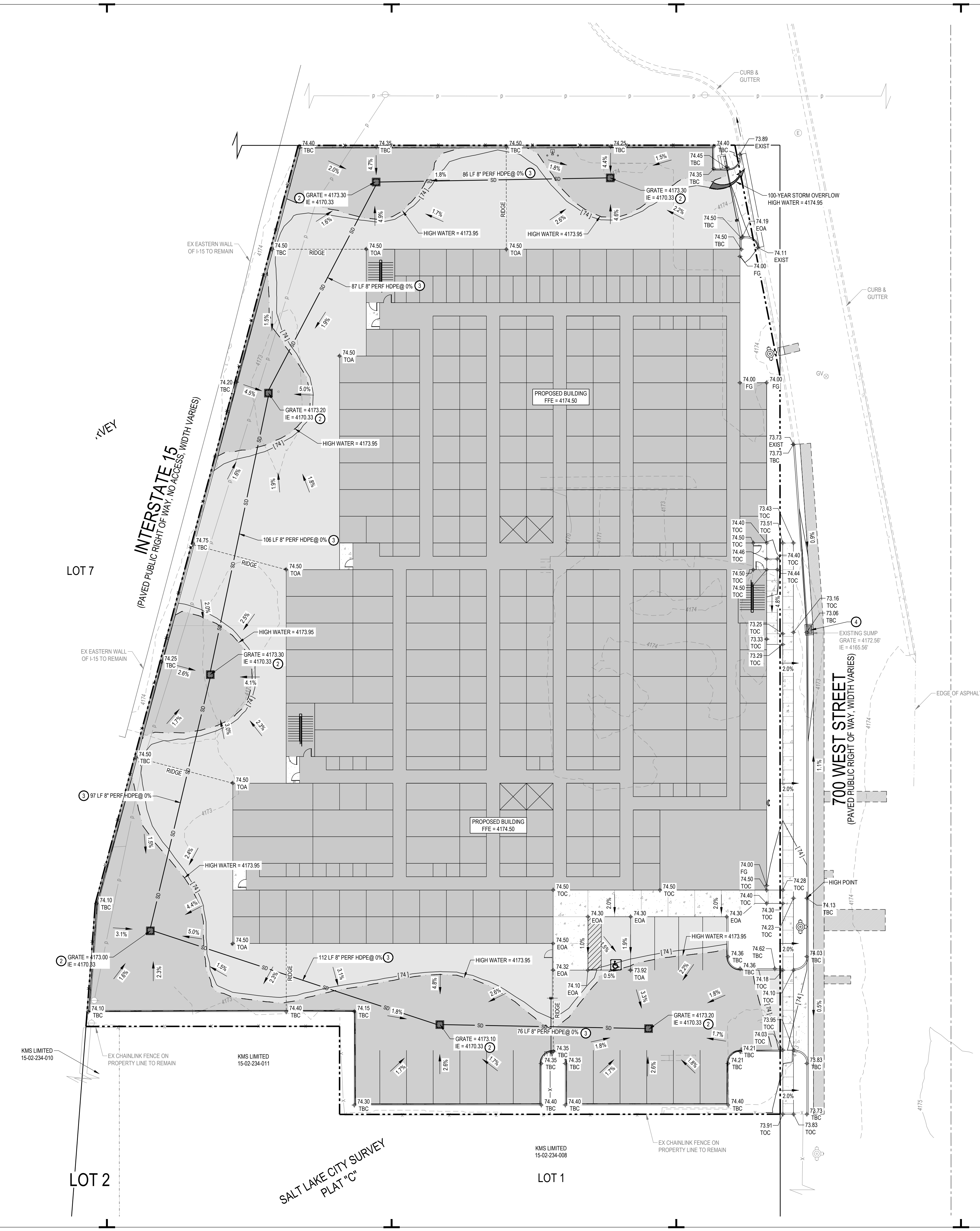
**Blue Stakes of UTAH811**  
 bluestakes.org

**NOTICE!**  
 THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION, PROTECTION, AND RESTORATION OF ALL BURIED OR ABOVE GROUND UTILITIES, SHOWN OR NOT SHOWN ON THE PLANS.

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**GENERAL NOTES:**  
 SITE GRADING SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND THE RECOMMENDATIONS SET FORTH IN THE SOILS REPORT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND REPLACING ALL SOFT, YIELDING OR UNSUITABLE MATERIALS AND REPLACING WITH SUITABLE MATERIALS AS SPECIFIED IN THE SOILS REPORT. ALL EXCAVATED OR FILLED AREAS SHALL BE COMPACTED TO 95% OF MODIFIED PROCTOR MAXIMUM DENSITY PER ASTM TEST D-1557 EXCEPT UNDER BUILDING FOUNDATION WHERE IT SHALL BE 8% 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 WITHIN THE BUILDING PAD AREA AND AREAS TO BE PAVED, HAVE BEEN COMPACTED IN ACCORDANCE WITH THESE PLANS AND THE RECOMMENDATIONS SET FORTH IN THE SOILS REPORT.

THE CONTRACTOR IS TO USE BEST MANAGEMENT PRACTICES FOR PROVIDING EROSION CONTROL FOR CONSTRUCTION OF THIS PROJECT. SPECIFIC DETAILS SHOWN ON SHEET C2.10 SHALL BE USED IN COMBINATION WITH OTHER ACCEPTED LOCAL PRACTICES.

EXISTING UNDERGROUND UTILITIES AND IMPROVEMENTS ARE SHOWN IN THEIR APPROXIMATE LOCATIONS BASED UPON RECORD INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF PLANS. LOCATIONS MAY NOT HAVE BEEN VERIFIED IN THE FIELD AND NO GUARANTEE IS MADE AS TO ACCURACY OR COMPLETENESS OF THE INFORMATION SHOWN. IT SHALL BE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXISTENCE AND LOCATION OF THOSE UTILITIES SHOWN ON THESE PLANS OR INDICATED IN THE FIELD BY LOCATING SERVICES. ANY ADDITIONAL COSTS INCURRED AS A RESULT OF CONTRACTOR'S FAILURE TO VERIFY LOCATIONS OF EXISTING UTILITIES PRIOR TO BEGINNING OF CONSTRUCTION IN THEIR VICINITY SHALL BE BORNE BY THE CONTRACTOR AND ASSUMED INCLUDED IN THE CONTRACT.

ALL ELEVATIONS SHOWN AT TOP AND BOTTOM OF WALL(S), IF ANY, ARE ELEVATIONS AT FINISH GRADE, UNLESS OTHERWISE NOTED.

EXISTING UNDERGROUND UTILITIES AND IMPROVEMENTS ARE SHOWN IN THEIR APPROXIMATE LOCATIONS BASED UPON RECORD INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF PLANS. LOCATIONS MAY NOT HAVE BEEN VERIFIED IN THE FIELD AND NO GUARANTEE IS MADE AS TO ACCURACY OR COMPLETENESS OF THE INFORMATION SHOWN. IT SHALL BE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXISTENCE AND LOCATION OF THOSE UTILITIES SHOWN ON THESE PLANS OR INDICATED IN THE FIELD BY LOCATING SERVICES. ANY ADDITIONAL COSTS INCURRED AS A RESULT OF CONTRACTOR'S FAILURE TO VERIFY LOCATIONS OF EXISTING UTILITIES PRIOR TO BEGINNING OF CONSTRUCTION IN THEIR VICINITY SHALL BE BORNE BY THE CONTRACTOR AND ASSUMED INCLUDED IN THE CONTRACT.

A PUBLIC RIGHT OF WAY PERMIT OBTAINED FROM THE SALT LAKE CITY ENGINEERING OFFICE (801.336.6398) IS REQUIRED FOR WORK ON CURB, GUTTER, PARK STRIP, ROADWAY, OR ANYWHERE IN PUBLIC WAY. THIS IS A SEPARATE PERMIT FROM THOSE ISSUED BY OTHER MUNICIPAL ENTITIES SUCH AS BUILDING SERVICES, PUBLIC UTILITIES, ETC. IT MUST BE OBTAINED BY A CONTRACTOR WHO HAS BOND, INSURANCE, AND LICENSE ON FILE WITH THE ENGINEERING OFFICE.

**KEYED NOTES:**  
 PROVIDE, INSTALL AND/OR CONSTRUCT THE FOLLOWING PER THE SPECIFICATIONS GIVEN OR REFERENCED AND THE DETAILS NOTED AND AS SHOWN ON THE CONSTRUCTION DRAWINGS:

- 1 GRADE SITE TO ELEVATIONS AND CONTOURS SHOWN ON PLAN.
- 2 STORM DRAIN AREA INLET BOX WITH HEAVY DUTY BICYCLE SAFE GRATE. SEE DETAIL 'B2', SHEET C5.01.
- 3 FRENCH DRAIN WITH 8" DIAMETER PERFORATED PVC STORM DRAIN LINE. SEE DETAIL 'A2', SHEET C5.01.
- 4 REMOVE EXISTING GRATE OF SUMP AND INSTALL NEW HEAVY DUTY BICYCLE SAFE CURB INLET PER APWA PLAN 308.
- 5 4" DIAMETER HDPE ROOF DRAIN LINE. TRENCHING PER SALT LAKE STANDARD PRACTICE #1.

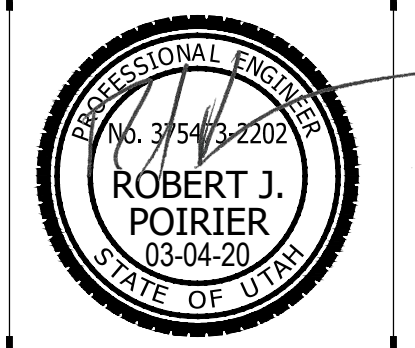
**COMMON GRADING ABBREVIATIONS:**  
 SEE SHEET C0.01 FOR ADDITIONAL ABBREVIATIONS

- BFE BASEMENT FLOOR ELEVATION
- BW FINISH GRADE AT BOTTOM OF WALL
- EX or EXIST EXISTING
- EOA EDGE OF ASPHALT
- EOC EDGE OF CONCRETE
- FFE FINISH FLOOR ELEVATION
- FG FINISH GRADE
- FL FLOW LINE
- GB GRADE BREAK
- HP HIGH POINT
- LP LOW POINT
- NG NATURAL GROUND
- SDCS STORM DRAIN CATCH BASIN
- SDCO STORM DRAIN CLEANOUT BOX
- SDBS STORM DRAIN BASIN
- SDMH STORM DRAIN MANHOLE
- TBC TOP BACK OF CURB
- TOA TOP OF ASPHALT
- TOC TOP OF CONCRETE
- TOG TOP OF GRATE
- TOW TOP OF WALL
- TW FINISH GRADE AT TOP OF WALL
- WW WATERWAY



**NOTICE!**  
 THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION, PROTECTION, AND RESTORATION OF ALL BURIED OR ABOVE GROUND UTILITIES, SHOWN OR NOT SHOWN ON THE PLANS.

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**GATEWAY SELF STORAGE**  
 124 SOUTH 700 WEST  
 SALT LAKE CITY, UTAH 84104  
 LOCATED IN THE NE QUARTER OF SECTION 2, T1S, R1W, S1B&M

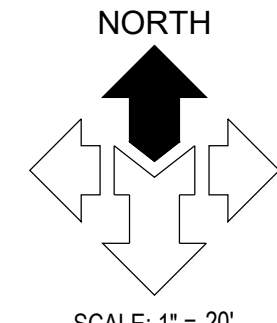
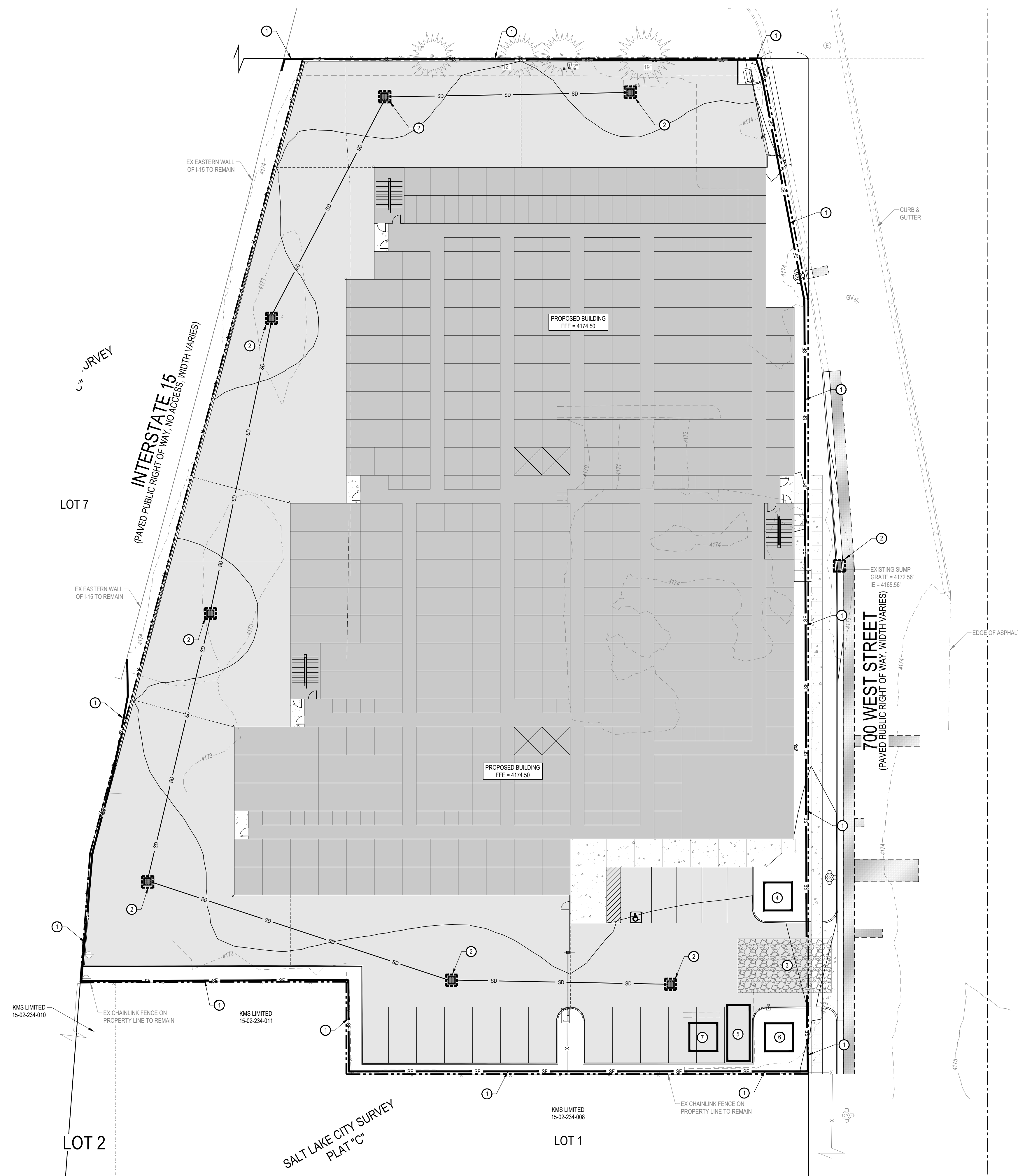
REV	DATE	DESCRIPTION

PROJECT NO: 20117  
 DRAWN BY: CCW  
 CHECKED BY: RJP  
 DATE: MARCH 4, 2020

**GRADING AND DRAINAGE PLAN**  
**C2.01**



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**GENERAL NOTES:**  
 THE CONTRACTOR IS TO USE BEST MANAGEMENT PRACTICES FOR PROVIDING EROSION CONTROL FOR CONSTRUCTION OF THIS PROJECT. SPECIFIC DETAILS SHOWN ON SHEET CS.04 SHALL BE USED IN COMBINATION WITH OTHER ACCEPTED LOCAL PRACTICES.  
 ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE LOCAL AGENCY'S EROSION CONTROL STANDARDS AND SPECIFICATIONS AND ALL WORK SHALL BE SUBJECT TO INSPECTION BY THE AGENCY HAVING JURISDICTION. ALSO INSPECTORS WILL HAVE THE RIGHT TO CHANGE THE FACILITIES AS NEEDED.  
 THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING THE LOCATIONS OF ALL EXISTING UTILITIES. IF CONFLICTS OCCUR, THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO CONSTRUCTION TO DETERMINE IF ANY FIELD ADJUSTMENTS SHOULD BE MADE.  
 THE CONTRACTOR SHALL PROVIDE ADEQUATE DUST CONTROL.  
 WHEN GRADING OPERATIONS HAVE BEEN COMPLETED AND THE DISTURBED GROUND SHALL BE LEFT OPEN FOR 30 DAYS OR MORE THE AREA SHALL BE FURROWED PARALLEL TO THE CONTOURS OF THE AREA.  
 THE CONTRACTOR SHALL MODIFY EROSION CONTROL MEASURES TO ACCOMMODATE PROJECT PLANNING.

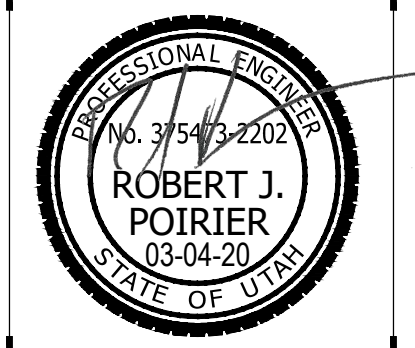
**MAINTENANCE:**  
 THE OWNER'S REPRESENTATIVE SHALL MAKE ROUTINE CHECKS ON ALL EROSION CONTROL MEASURES TO DETERMINE IF REPAIRS OR SEDIMENT REMOVAL IS NECESSARY, DUE TO CONDITIONS THAT MAY ARISE IN THE FIELD, ADDITIONAL CONTROL MAY BE DETERMINED TO BE NECESSARY.  
 SILT FENCE BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT THE LEAST DAILY DURING PROLONGED RAINFALL.  
 CLOSE ATTENTION SHALL BE PAID TO THE REPAIR OF DAMAGED SILT FENCES, END RUNS, AND UNDERCUTTING BENEATH SILT FENCING.  
 NECESSARY REPAIRS TO BARRIERS OR REPLACEMENT OF SILT FENCING SHALL BE ACCOMPLISHED PROMPTLY.  
 SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH RAINFALL, THEY MUST BE REMOVED WHEN THE LEVEL OF DEPOSITION REACHES APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.

**KEYED NOTES:**  
 PROVIDE, INSTALL AND/OR CONSTRUCT THE FOLLOWING PER THE SPECIFICATIONS GIVEN OR REFERENCED AND THE DETAILS NOTED AND AS SHOWN ON THE CONSTRUCTION DRAWINGS:

- ① SILT FENCE AS SHOWN ON PLAN. SEE DETAIL 'C3', SHEET CS.02.
- ② INLET PROTECTION AROUND EXISTING OR NEW STORM DRAIN CATCH BASINS OR CURB INLETS. SEE DETAIL 'A1', SHEET CS.02.
- ③ TEMPORARY CONSTRUCTION ENTRANCE. SEE DETAIL 'C1', SHEET CS.02. LOCATION SHOWN IS SUGGESTIVE. CONTRACTOR TO RELOCATE AS NEEDED.
- ④ CONCRETE WASHOUT AREA. CREATE A MIN. 10'X10' AREA WITH A 1' HIGH BERM. LINE AREA WITH PLASTIC. DISCARD WASTE IN DUMPSTER WHEN FULL AND LEGALLY DISPOSE OF. SEE DETAIL 'A5', SHEET CS.02. LOCATION SHOWN IS SUGGESTIVE. CONTRACTOR TO RELOCATE AS NEEDED.
- ⑤ CONSTRUCTION DUMPSTER. CHECK LEVEL DAILY. LEGALLY DISPOSE OF WASTE AS NEEDED. LOCATION SHOWN IS SUGGESTIVE. CONTRACTOR TO RELOCATE AS NEEDED.
- ⑥ PORTABLE CONSTRUCTION TOILET. TOILET TO BE PROPERLY SECURED TO PREVENT TIPPING. BUILD 6" BERM AROUND TOILET TO CONTAIN ANY SPILLS OR LEAKAGE. CHECK LEVEL DAILY. LEGALLY DISPOSE OF WASTE AS NEEDED. SEE DETAIL 'C5', SHEET CS.02. LOCATION SHOWN IS SUGGESTIVE. CONTRACTOR TO RELOCATE AS NEEDED.
- ⑦ MATERIAL STORAGE AND STOCK PILE AREA. SEE DETAIL 'A5', SHEET CS.02. LOCATION SHOWN IS SUGGESTIVE. CONTRACTOR TO RELOCATE AS NEEDED.

**NOTICE!**  
 THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION, PROTECTION, AND RESTORATION OF ALL BURIED OR ABOVE GROUND UTILITIES, SHOWN OR NOT SHOWN ON THE PLANS.

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REV	DATE	DESCRIPTION

PROJECT NO: 20117  
 DRAWN BY: CCW  
 CHECKED BY: RJP  
 DATE: MARCH 4, 2020

**EROSION CONTROL PLAN**  
**C2.10**

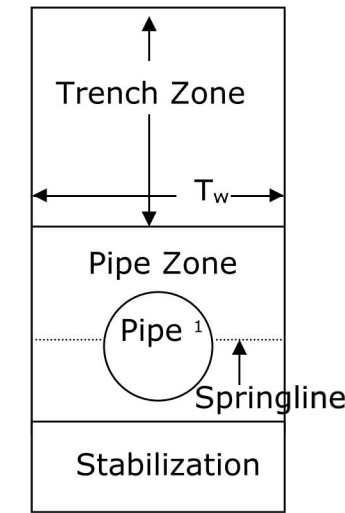






**STANDARD PRACTICE #1**  
SALT LAKE CITY PUBLIC UTILITY

**TO:** All contractors doing work for SLCPU  
**FROM:** Charles H. Call, Jr., P.E., Chief Engineer  
**DATE:** January 14, 2010  
**SUBJECT:** Trench Backfill Requirements (APWA Section 33 05 20)



**Trench Zone Material**  
2-inch minus - Granular Backfill Borrow (APWA 31 05 13)  
Notes: Material must be free of slag or recycled asphalt.  
Material can be 2-inch minus pit run material.

**Pipe Zone Material (12" above to 6" below the pipe)**  
Dry conditions - Grade 3/4 UTBC (APWA 32 11 23)<sup>2</sup>  
Wet conditions - 2" minus sewer rock (APWA 31 05 13)<sup>3</sup>  
Note: Material must be free of slag or recycled asphalt.

**Stabilization Material (starts 6" below pipe)**  
2" minus sewer rock (APWA 31 05 13)  
Note: Material must be free of slag or recycled asphalt

Table 1 - Pipe zone material and minimum pipe zone width.

Pipe Material	Pipe Zone Material	Min. Pipe Zone Top Width (Tw)
PVC	3/4" minus well graded <sup>2</sup>	Tw = OD + 24" ≥ 36"
HDPE-N12	3/4" minus well graded <sup>3</sup>	Tw = OD + 24" ≥ 36"
DI	3/4" minus well graded <sup>2</sup>	Tw = OD + 24" ≥ 36"
Concrete	3/4" minus well graded <sup>2</sup>	Tw = OD + 24" ≥ 36"

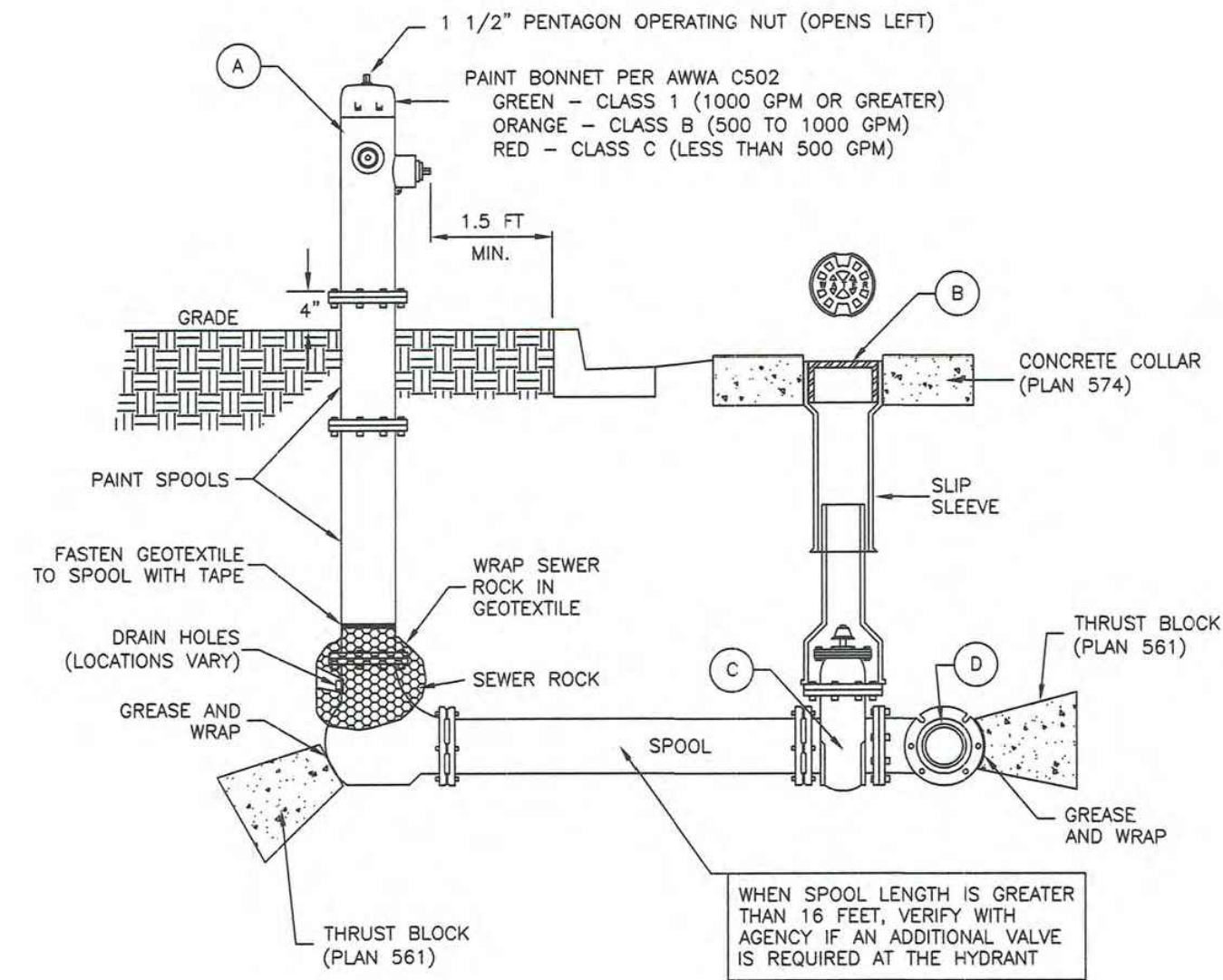
- Center pipe in trench.
- Variations must be approved in advance by Chief Engineer.
- 2" minus sewer rock can be used in areas below water table when approved in advance by Chief Engineer.
- Outside diameter of the pipe.
- 2" minus material not permitted with PVC or HDPE pipe.

SLCPU Standard Practice 1 1/5/2009



Fire hydrant with valve

Plan 511  
February 2011



**LEGEND**

No.	* ITEM	DESCRIPTION
(A)	FIRE HYDRANT	AWWA C502
(B)	VALVE BOX WITH LID	2-PIECE CAST IRON
(C)	GATE VALVE WITH 2" X 2" NUT	AWWA C509
(D)	TEE WITH 125 # FLANGE	AWWA C110

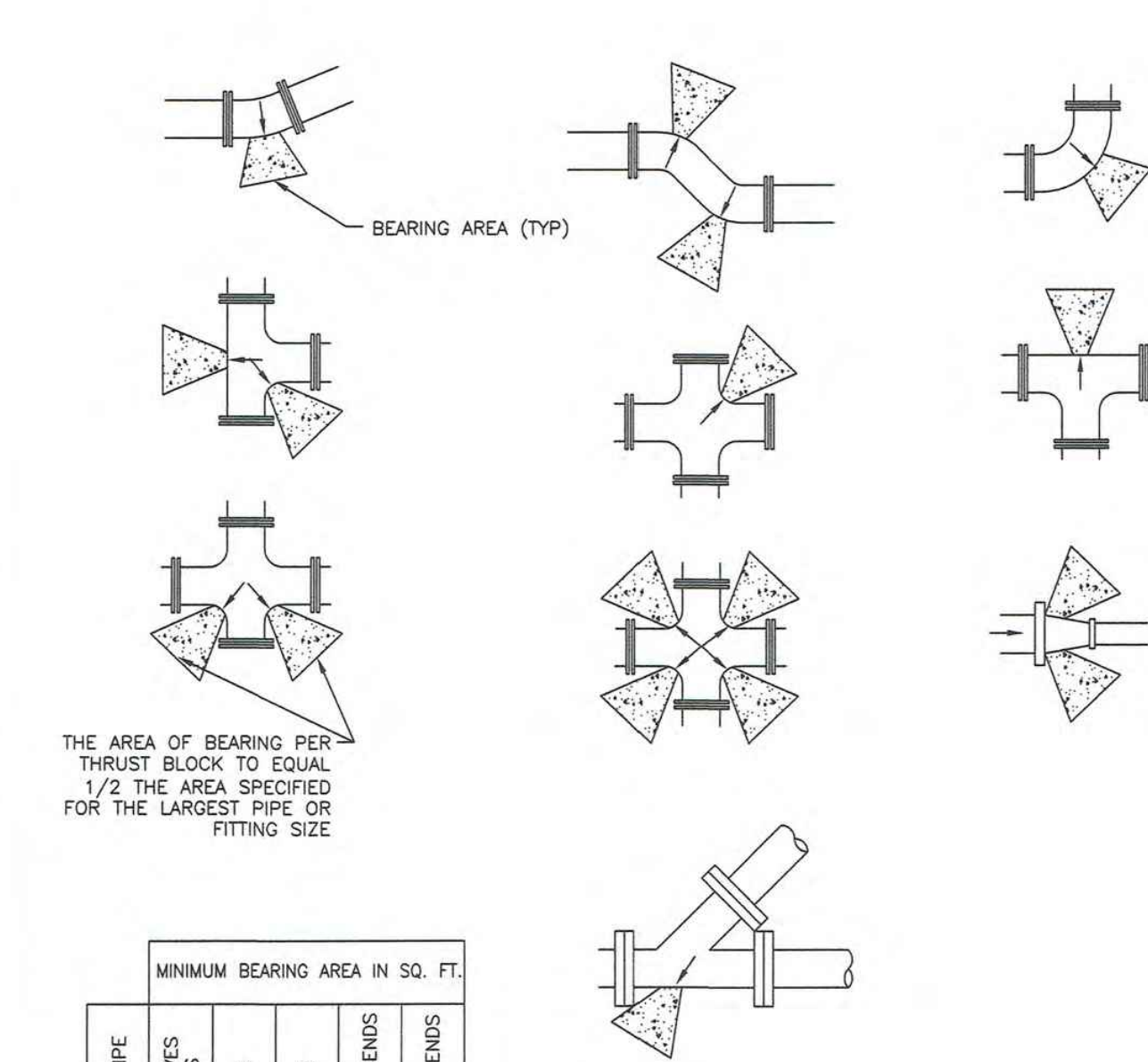
\* FURNISHED BY UTILITY AGENCY

**SECTION**



Direct bearing thrust block

Plan 561  
August 2010



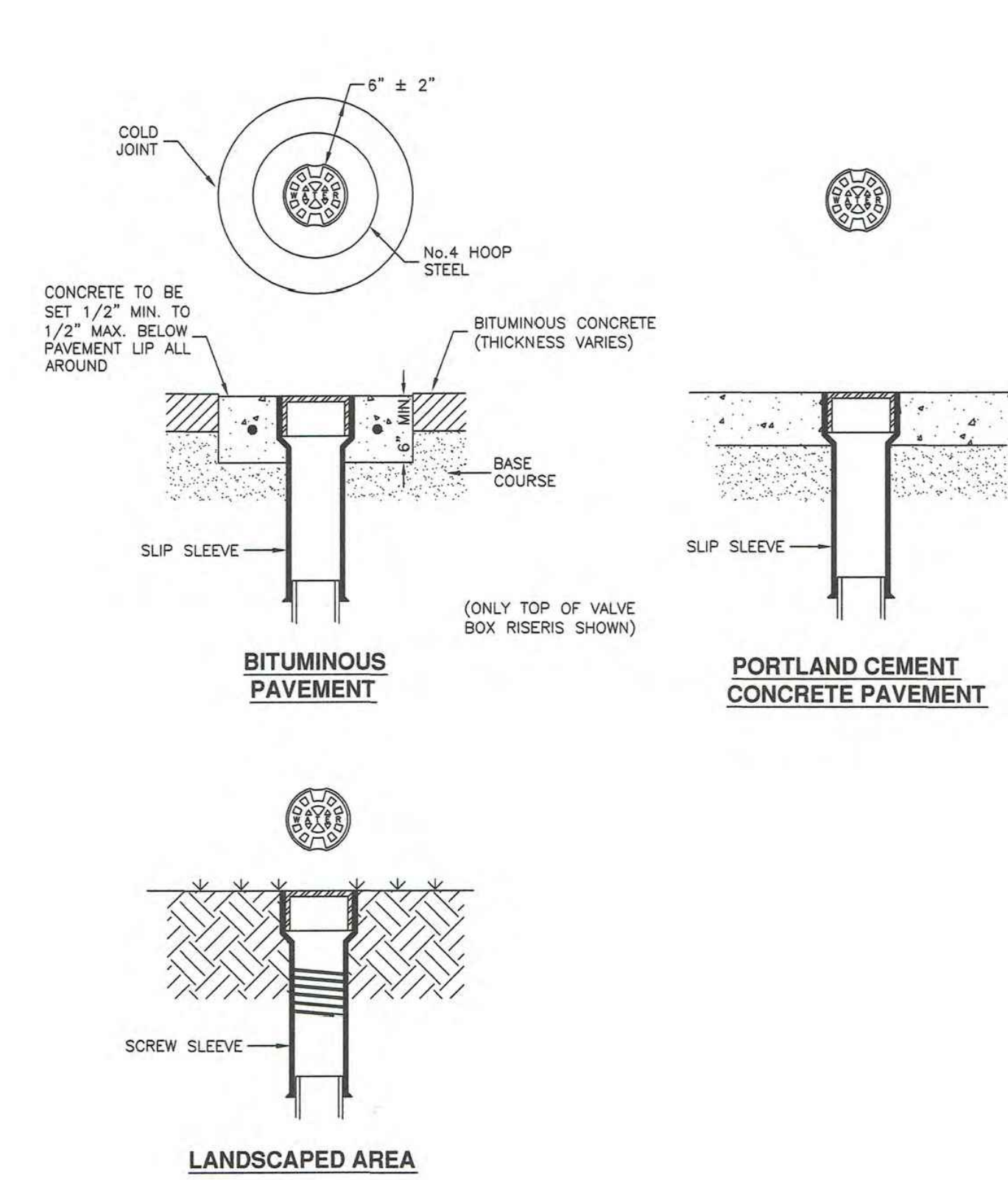
**MINIMUM BEARING AREA IN SQ. FT.**

SIZE OF PIPE	TEES, VALVES, DEAD ENDS	90° BENDS	45° BENDS	22 1/2° BENDS	11 1/4° BENDS
4"	2	3	2	2	2
6"	4	5.5	3	2.5	2
8"	6.5	9.5	5	2.75	2.5
12"	14	20	11	5.5	3
14"	19	28.5	14.5	7.5	4
16"	24	34	18.5	9.5	6
20"	27	52	28.5	14.5	9
24"	53	74	41	21	12
30"	81	114	62	32	16

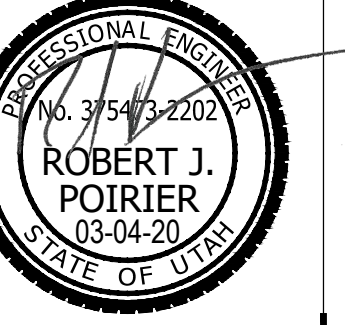


Cover collar for water valve box

Plan 574  
August 2001



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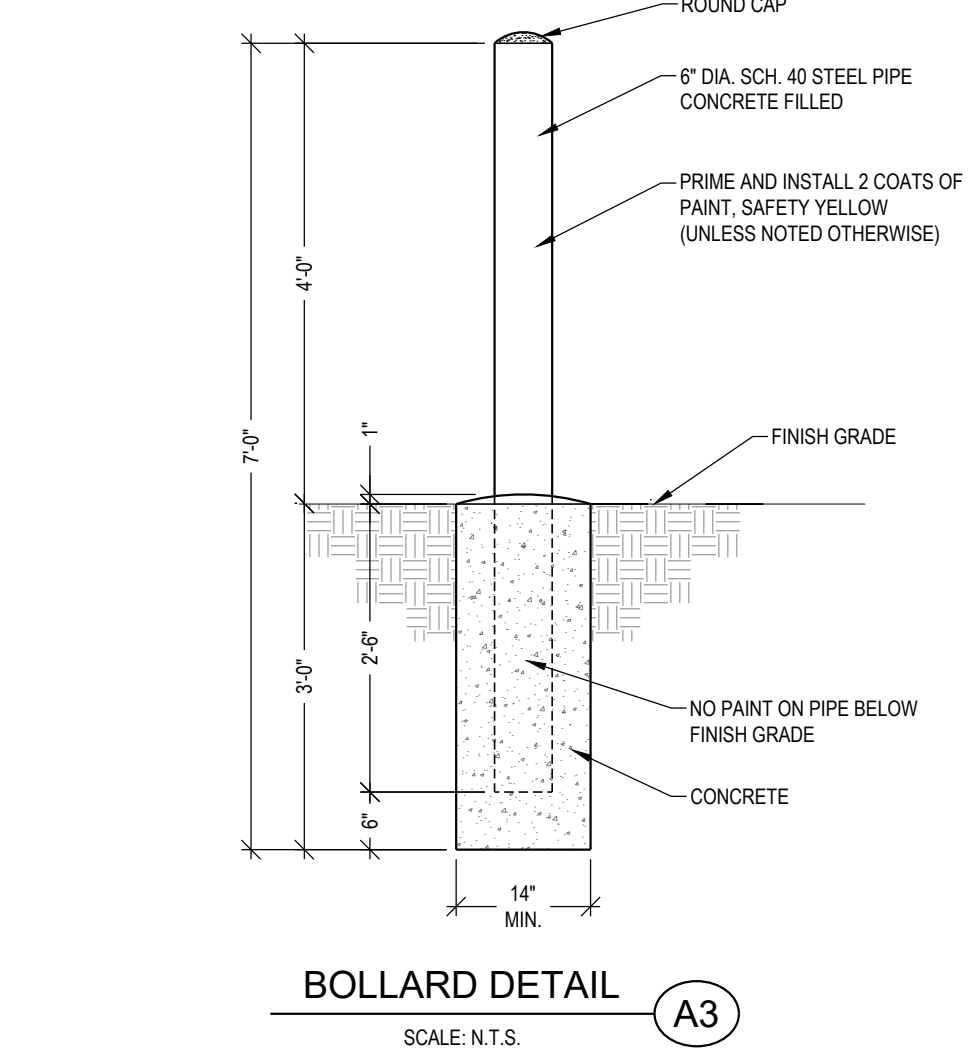
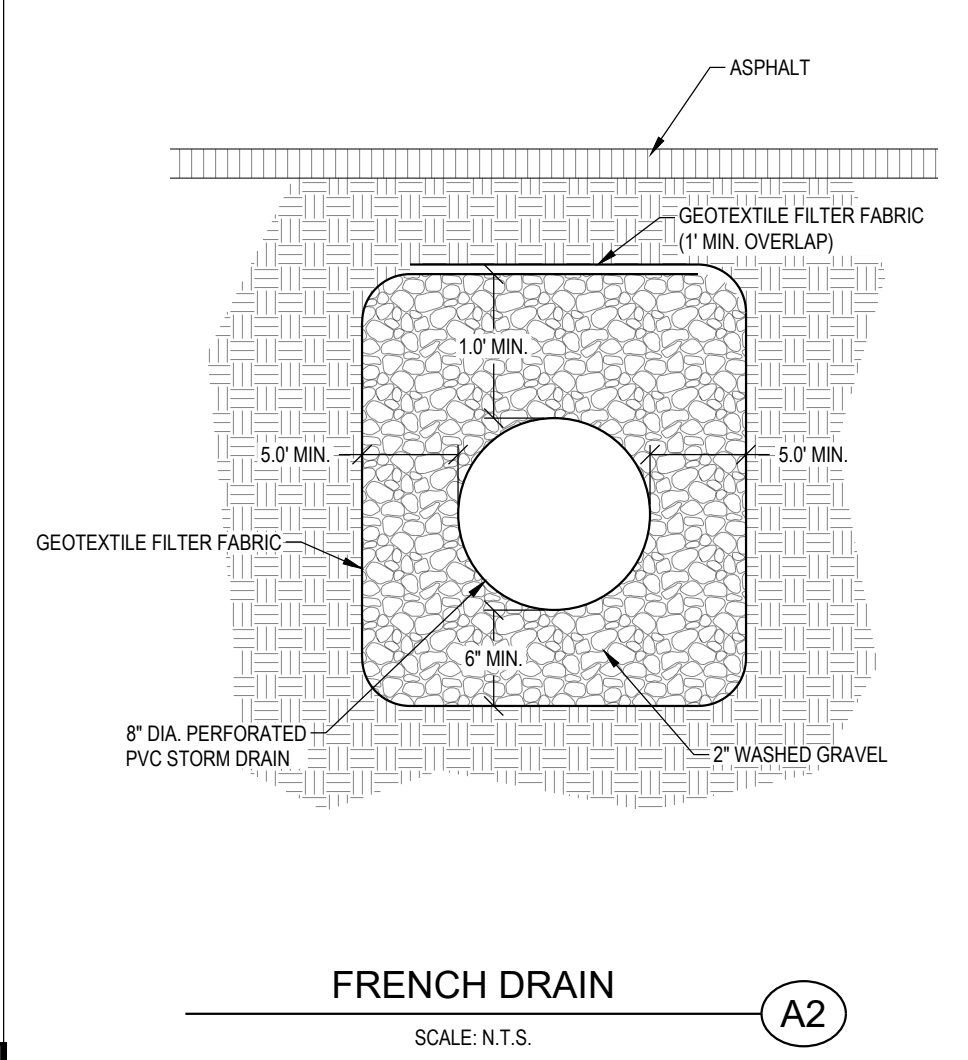
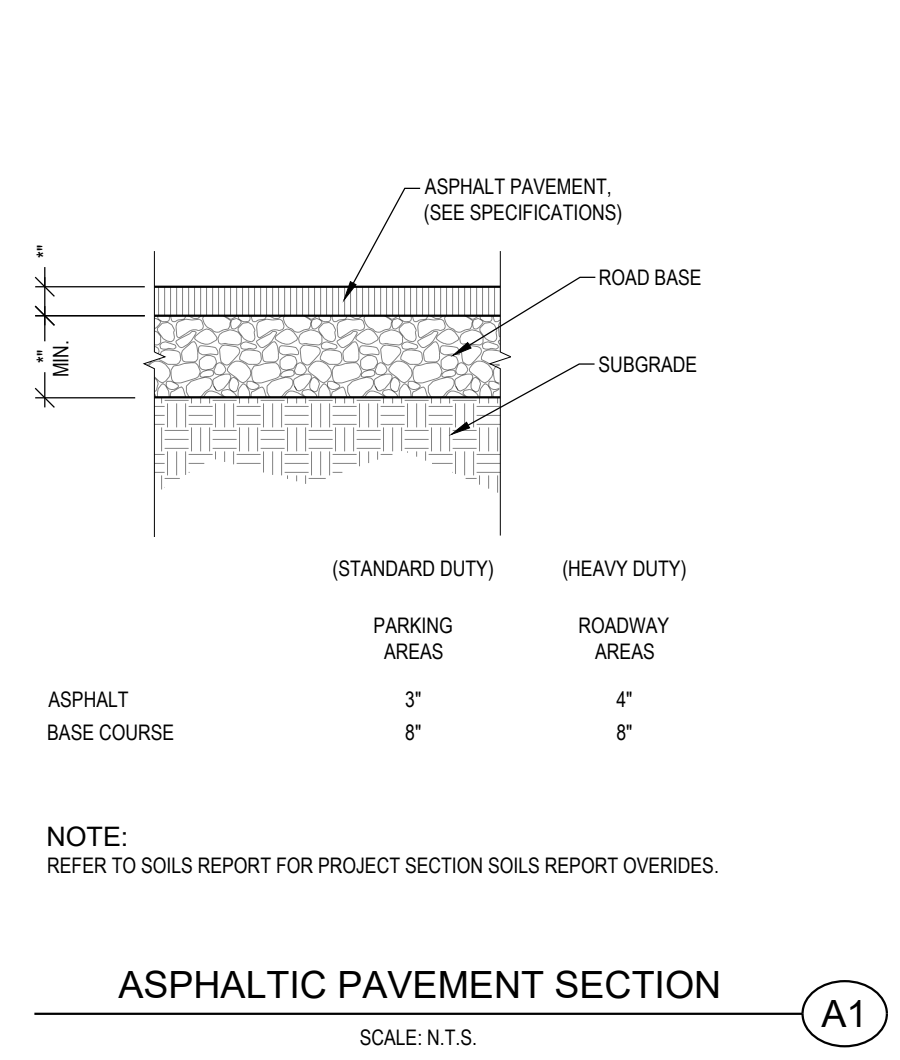
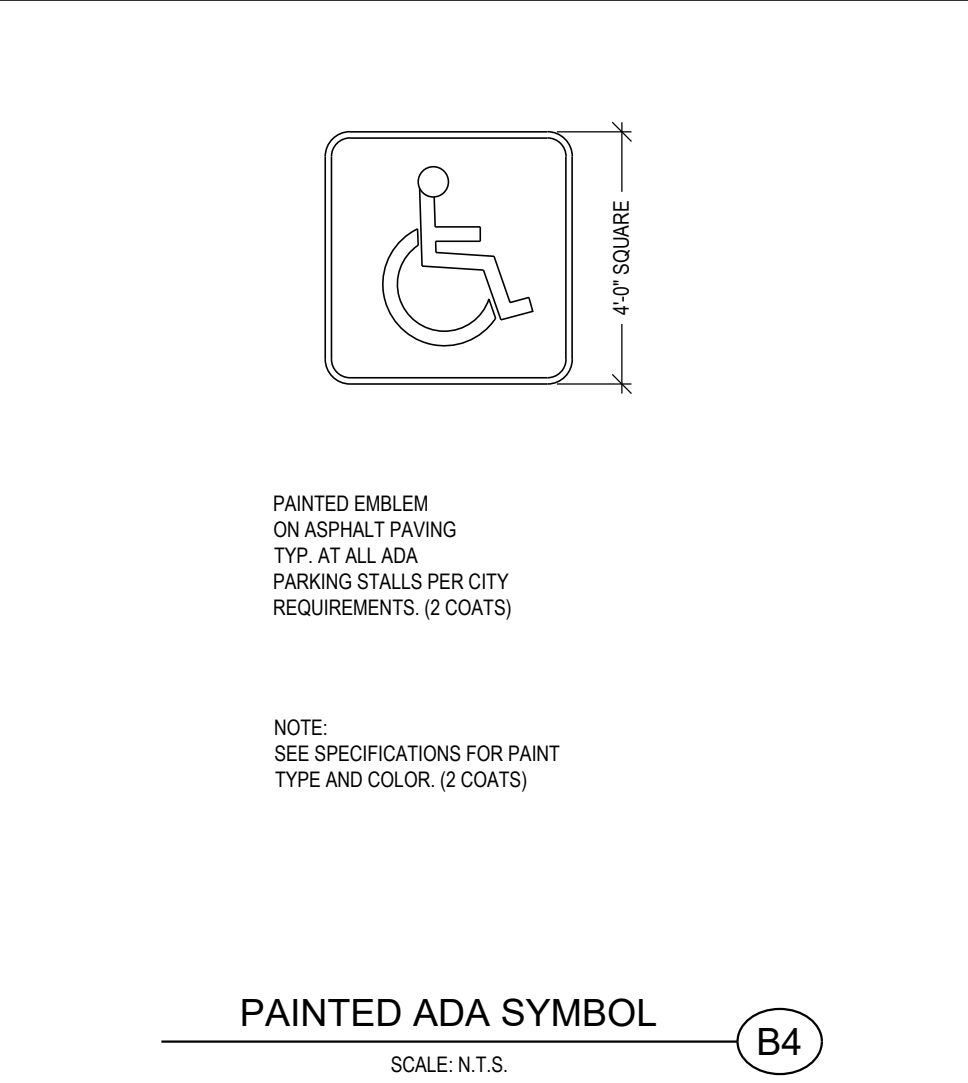
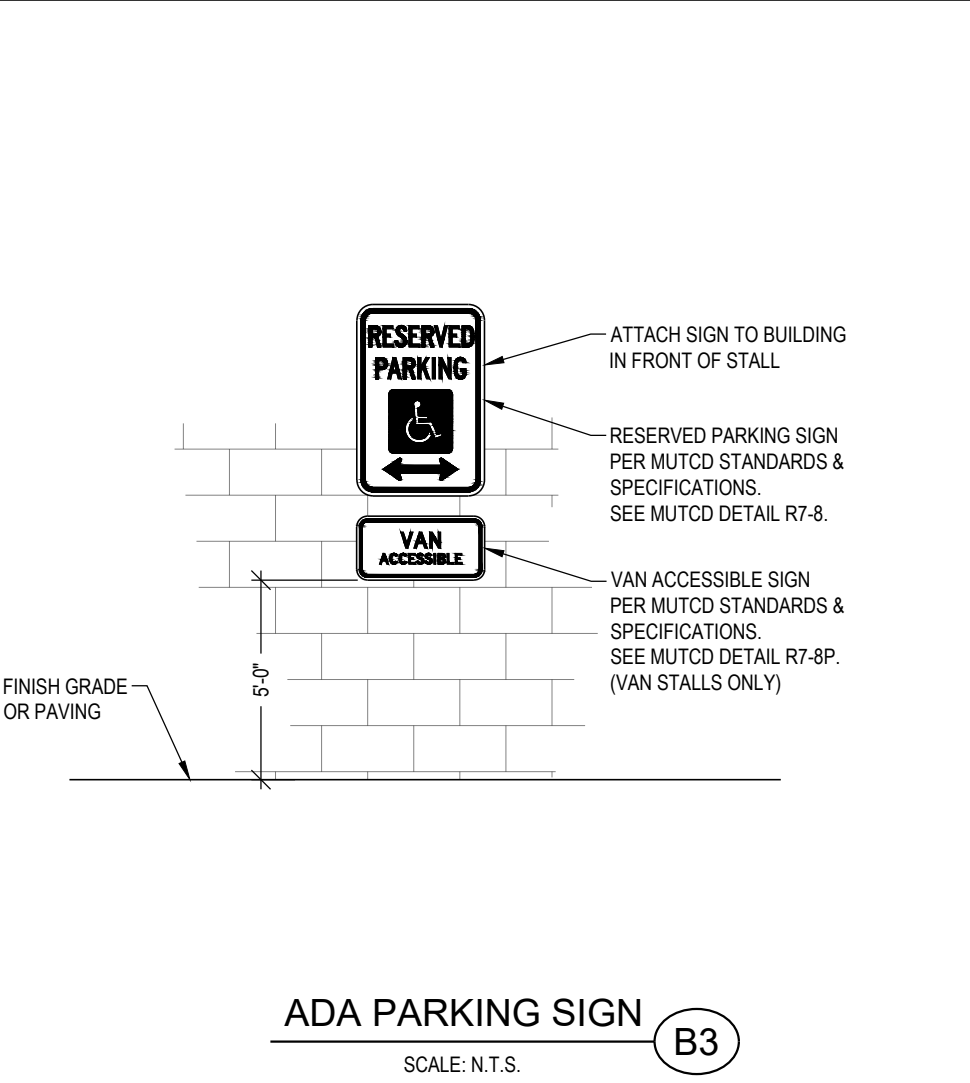
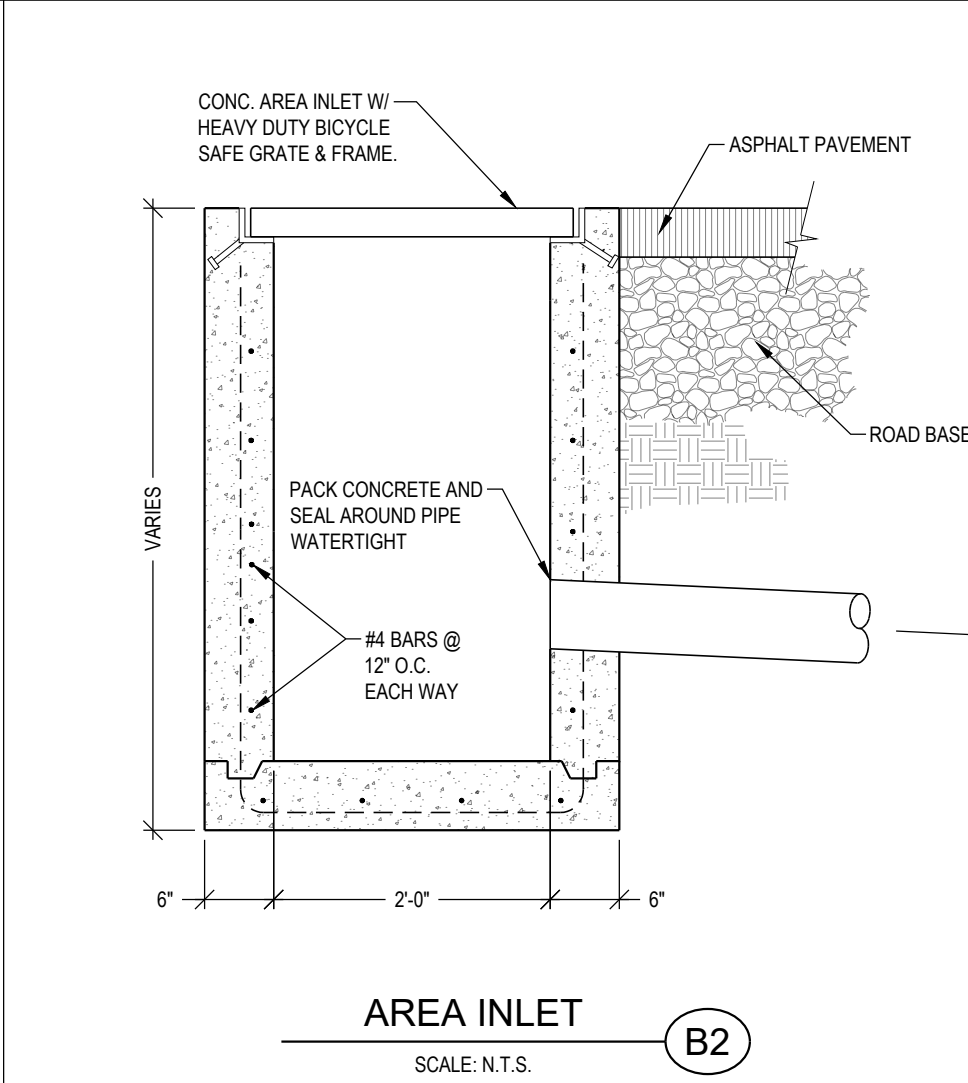
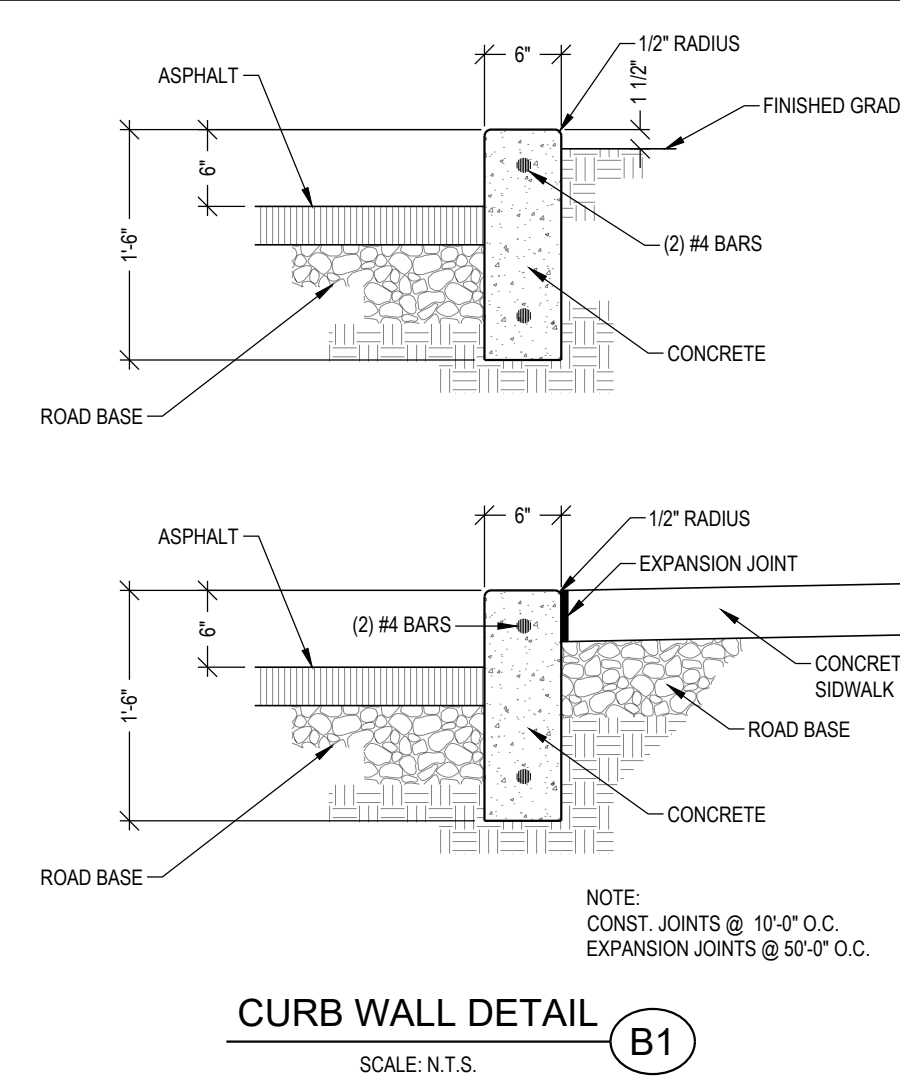
**REVISIONS**

REV	DATE	DESCRIPTION

PROJECT NO: 20117  
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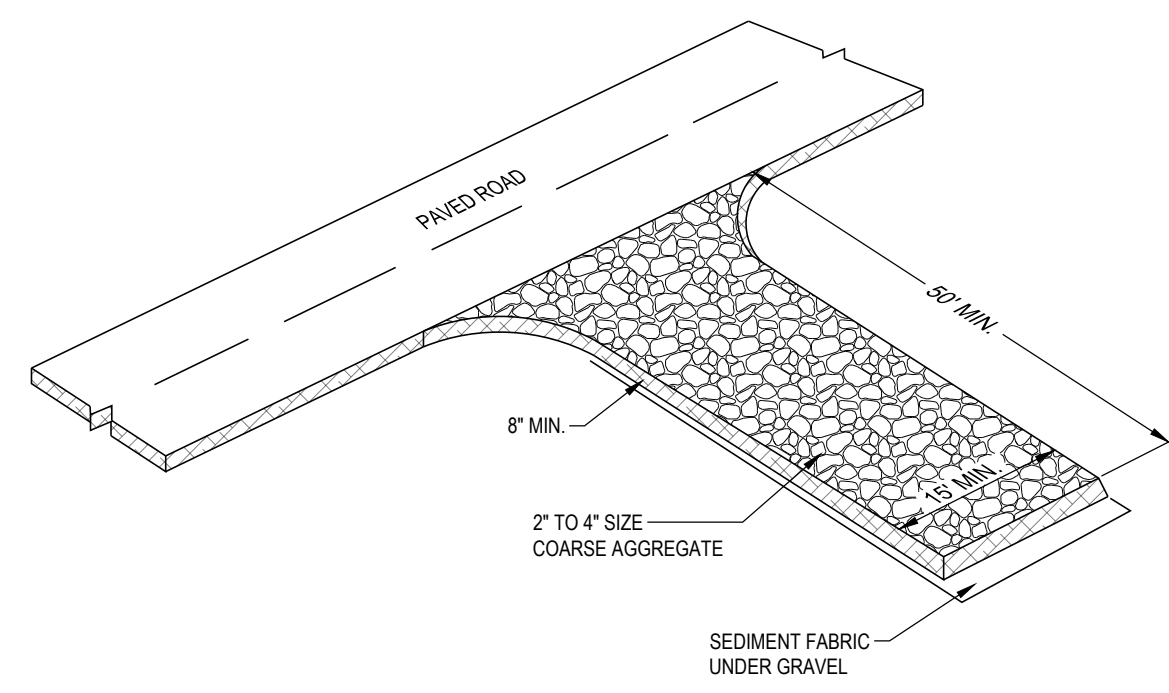
**CIVIL DETAILS**

**C5.01**



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- OBJECTIVES**
- HOUSEKEEPING PRACTICES
  - CONTAIN WASTE
  - MINIMIZE DISTURBED AREA
  - STABILIZE DISTURBED AREA
  - PROTECT SLOPES/CHANNELS
  - CONTROL SITE PERIMETER
  - CONTROL INTERNAL EROSION

- TARGETED POLLUTANTS**
- SEDIMENT
  - NUTRIENTS
  - TOXIC MATERIALS
  - OIL & GREASE
  - FLOATABLE MATERIALS
  - OTHER WASTE

- IMPLEMENTATION REQUIREMENTS**
- HIGH IMPACT
  - MEDIUM IMPACT
  - LOW OR UNKNOWN IMPACT

**DESCRIPTION:**  
A STABILIZED PAD OF CRUSHED STONE LOCATED WHERE CONSTRUCTION TRAFFIC ENTERS OR LEAVES THE SITE FROM OR TO PAVED SURFACE.

**APPLICATIONS:**  
AT ANY POINT OF INGRESS OR EGRESS AT A CONSTRUCTION SITE WHERE ADJACENT TRAVELED WAY IS PAVED. GENERALLY APPLIES TO SITES OVER 2 ACRES UNLESS SPECIAL CONDITIONS EXIST.

**INSTALLATION/APPLICATION CRITERIA:**

- CLEAR GRUB AREA AND GRADE TO PROVIDE MAXIMUM SLOPE OF 2%.
- COMPACT SUB GRADE AND PLACE FILTER FABRIC IF DESIRED (RECOMMENDED FOR ENTRANCES TO REMAIN FOR MORE THAN 3 MONTHS).
- PLACE COARSE AGGREGATE, 1 TO 2-1/2 INCHES IN SIZE, TO A MINIMUM DEPTH OF 8 INCHES.

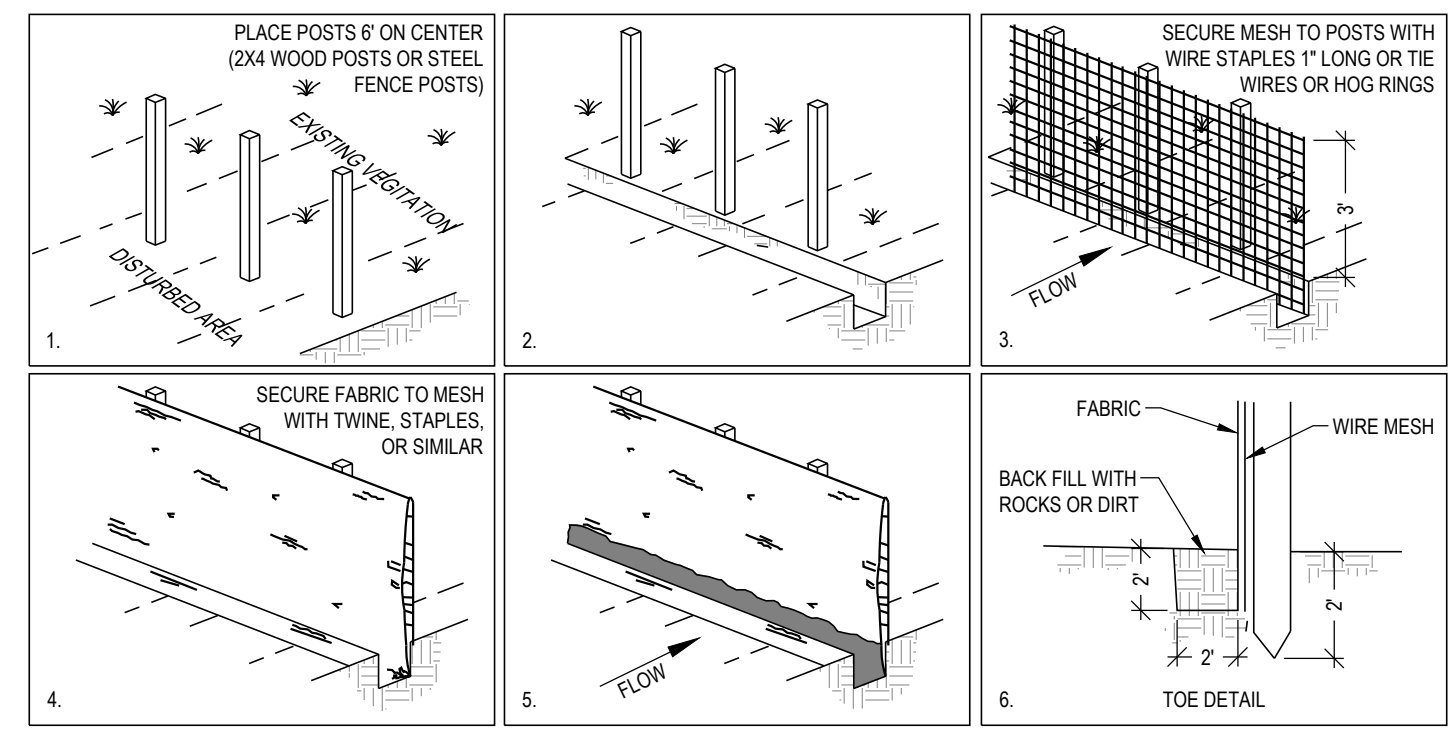
**LIMITATIONS:**

- REQUIRES PERIODIC TOP DRESSING WITH ADDITIONAL STONES.
- SHOULD BE USED IN CONJUNCTION WITH STREET SWEEPING ON ADJACENT PUBLIC RIGHT-OF-WAY.

**MAINTENANCE:**

- INSPECT DAILY FOR LOSS OF GRAVEL OR SEDIMENT BUILDUP.
- INSPECT ADJACENT ROADWAY FOR SEDIMENT DEPOSIT AND CLEAN BY SWEEPING OR SHOVELING.
- REPAIR ENTRANCE AND REPLACE GRAVEL AS REQUIRED TO MAINTAIN CONTROL IN GOOD WORKING CONDITION.
- EXPAND STABILIZED AREA AS REQUIRED TO ACCOMMODATE TRAFFIC AND PREVENT EROSION AT DRIVEWAYS.

**STABILIZED CONSTRUCTION ENTRANCE** (C1)  
SCALE: N.T.S.



- OBJECTIVES**
- HOUSEKEEPING PRACTICES
  - CONTAIN WASTE
  - MINIMIZE DISTURBED AREA
  - STABILIZE DISTURBED AREA
  - PROTECT SLOPES/CHANNELS
  - CONTROL SITE PERIMETER
  - CONTROL INTERNAL EROSION

- TARGETED POLLUTANTS**
- SEDIMENT
  - NUTRIENTS
  - TOXIC MATERIALS
  - OIL & GREASE
  - FLOATABLE MATERIALS
  - OTHER WASTE

- IMPLEMENTATION REQUIREMENTS**
- HIGH IMPACT
  - MEDIUM IMPACT
  - LOW OR UNKNOWN IMPACT

**DESCRIPTION:**  
A TEMPORARY SEDIMENT BARRIER CONSISTING OF ENTRENCHED FILTER FABRIC STRETCHED ACROSS AND SECURED TO SUPPORTING POSTS.

**APPLICATIONS:**

- PERIMETER CONTROL: PLACE BARRIER AT DOWNGRADE LIMITS OF DISTURBANCE.
- SEDIMENT BARRIER: PLACE BARRIER AT TOE OF SLOPE OR SOIL STOCKPILE.
- PROTECTION OF EXISTING WATERWAYS: PLACE BARRIER AT TOP OF STREAM BANK IMMEDIATELY UPSTREAM OF POSTS.
- INLET PROTECTION: PLACE FENCE SURROUNDING CATCH BASINS.

**INSTALLATION/APPLICATION CRITERIA:**

- PLACE POSTS 6 FEET APART ON CENTER ALONG CONTOUR (OR USE PRE-ASSEMBLED UNIT) AND DRIVE 2 FEET MINIMUM INTO GROUND. EXCAVATE AN ANCHOR TRENCH IMMEDIATELY UPSTREAM OF POSTS.
- SECURE WIRE MESH (14 GAGE MIN. WITH 6 INCH OPENINGS) TO UPSLOPE SIDE OF POSTS. ATTACH WITH HEAVY DUTY 1 INCH LONG WIRE STAPLES, TIE WIRES OR HOG RINGS.
- CUT FABRIC TO REQUIRED WIDTH, UNROLL ALONG LENGTH OF BARRIER AND DRAPE OVER BARRIER. SECURE FABRIC TO MESH WITH TWINE, STAPLES, OR SIMILAR, WITH TRAILING EDGE EXTENDING INTO ANCHOR TRENCH.
- BACKFILL OVER FILTER FABRIC TO ANCHOR.

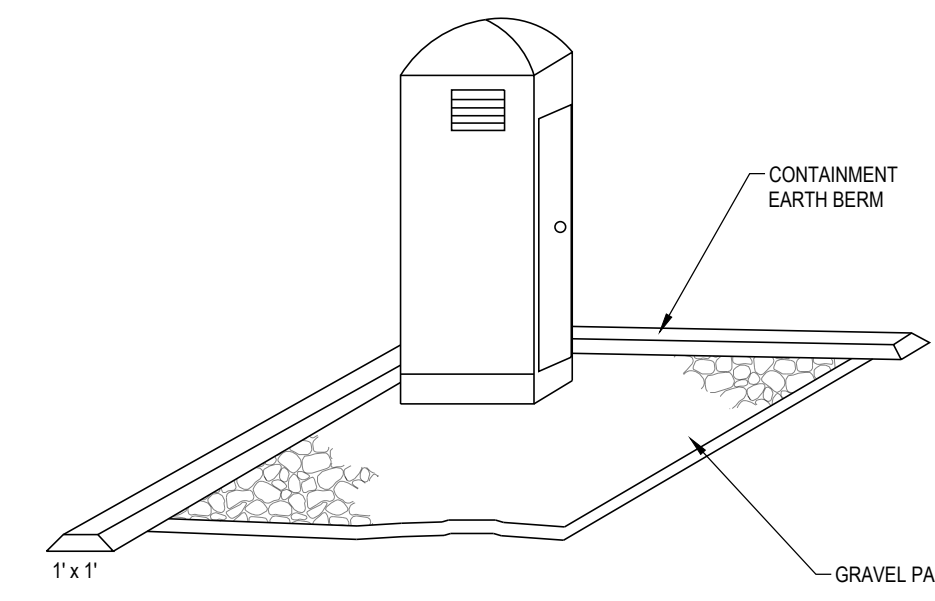
**LIMITATIONS:**

- RECOMMENDED MAXIMUM DRAINAGE AREA OF 0.5 ACRE PER 100 FEET OF FENCE.
- RECOMMENDED MAXIMUM UPGRADE SLOPE LENGTH OF 150 FEET.
- RECOMMENDED MAXIMUM UPHILL GRADE OF 2:1 (50%).
- RECOMMENDED MAXIMUM FLOW RATE OF 0.5 CFS.
- PONDING SHOULD NOT BE ALLOWED BEHIND FENCE.

**MAINTENANCE:**

- INSPECT IMMEDIATELY AFTER ANY RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL.
- LOOK FOR RUNOFF BYPASSING ENDS OF BARRIERS OR UNDERCUTTING BARRIERS.
- REPAIR OR REPLACE DAMAGED AREAS OF THE BARRIER AND REMOVE ACCUMULATED SEDIMENT.
- REANCHOR FENCE AS NECESSARY TO PREVENT SHORTCUTTING.
- REMOVE ACCUMULATED SEDIMENT WHEN IT REACHES 1/2 THE HEIGHT OF THE FENCE.

**SILT FENCE** (C3)  
SCALE: N.T.S.



**DESCRIPTION:**  
TEMPORARY ON-SITE SANITARY FACILITIES FOR CONSTRUCTION PERSONNEL.

**APPLICATIONS:**

- ALL SITES WITH NO PERMANENT SANITARY FACILITIES OR WHERE PERMANENT FACILITY IS TO FAR FROM ACTIVITIES.

**INSTALLATION/APPLICATION CRITERIA:**

- LOCATE PORTABLE TOILETS IN CONVENIENT LOCATIONS THROUGHOUT THE SITE.
- PREPARE LEVEL, GRAVEL SURFACE AND PROVIDE CLEAR ACCESS TO THE TOILETS FOR SERVICING AND FOR ON-SITE PERSONNEL.
- CONSTRUCT EARTH BERM PERIMETER (SEE EARTH BERM BARRIER INFORMATION SHEET), CONTROL FOR SPILL/PROTECTION LEAK.

**LIMITATIONS:**

- NO LIMITATIONS

**MAINTENANCE:**

- PORTABLE TOILETS SHOULD BE MAINTAINED IN GOOD WORKING ORDER BY LICENSED SERVICE WITH DAILY OBSERVATION FOR LEAK DETECTION.
- REGULAR WASTE COLLECTION SHOULD BE ARRANGED WITH LICENSED SERVICE.
- ALL WASTE SHOULD BE DEPOSITED IN SANITARY SEWER SYSTEM FOR TREATMENT WITH APPROPRIATE AGENCY APPROVAL.

- OBJECTIVES**
- HOUSEKEEPING PRACTICES
  - CONTAIN WASTE
  - MINIMIZE DISTURBED AREA
  - STABILIZE DISTURBED AREA
  - PROTECT SLOPES/CHANNELS
  - CONTROL SITE PERIMETER
  - CONTROL INTERNAL EROSION

- TARGETED POLLUTANTS**
- SEDIMENT
  - NUTRIENTS
  - TOXIC MATERIALS
  - OIL & GREASE
  - FLOATABLE MATERIALS
  - OTHER WASTE

- IMPLEMENTATION REQUIREMENTS**
- HIGH IMPACT
  - MEDIUM IMPACT
  - LOW OR UNKNOWN IMPACT

- IMPLEMENTATION REQUIREMENTS**
- CAPITAL COSTS
  - O & M COSTS
  - MAINTENANCE
  - TRAINING

- HIGH ■ MEDIUM □ LOW

**PORTABLE TOILETS** (C5)  
SCALE: N.T.S.

**FILTERSOCK SPECIFICATION:**

**FILTREXX FILTERSOCK INSTALLATION AND MAINTENANCE**

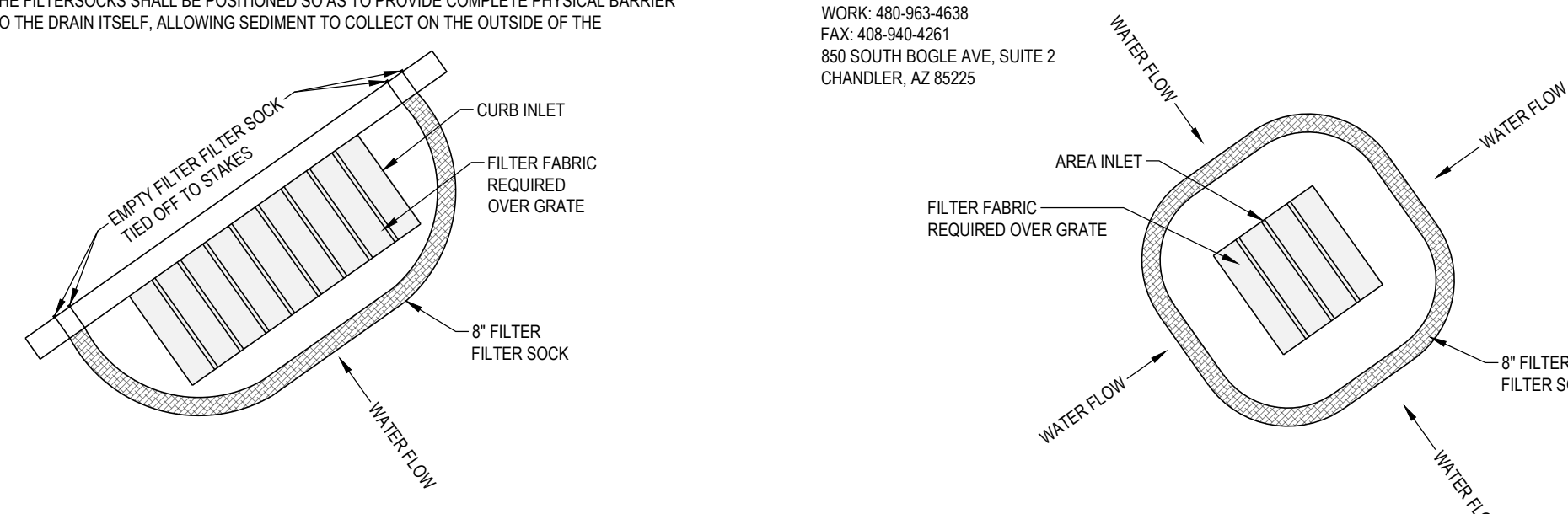
- 1.0 **DESCRIPTION:**  
THIS WORK SHALL CONSIST OF FURNISHING, INSTALLING, MAINTAINING AND DISPERSING (IF NEEDED) A WATER PERMEABLE COMPOST FILTER SOCK (FILTREXX FILTERSOCK) TO CONTAIN SOIL EROSION AND SEDIMENT BY REMOVING SOIL PARTICLES FROM WATER MOVING OFF SITE INTO ADJACENT WATERWAYS OR STORM WATER DRAINAGE SYSTEMS. FILTERSOCKS WILL BE USED AS A FORM OF INLET PROTECTION FOR OPERATIONAL STORM DRAINAGE SYSTEMS.
- 2.0 **COMPOST PRODUCTS USED TO FILL FILTREXX FILTERSOCKS**
1. **COMPOST:** COMPOST USED FOR FILTREXX FILTERSOCKS SHALL BE WEED FREE AND DERIVED FROM A WELL-DECOMPOSED SOURCE OF ORGANIC MATTER. THE COMPOST SHALL BE PRODUCED USING AN AEROBIC COMPOSTING PROCESS MEETING CFR 503 REGULATIONS, INCLUDING TIME AND TEMPERATURE DATA INDICATING EFFECTIVE WEED SEED, PATHOGEN AND INSECT LARVAE KILL. THE COMPOST SHALL BE FREE OF ANY REFUSE, CONTAMINANTS OR OTHER MATERIALS TOXIC TO PLANT GROWTH. NON-COMPOSTED PRODUCTS WILL NOT BE ACCEPTED. TEST METHODS FOR THE ITEMS BELOW SHOULD FOLLOW USCC TMECC GUIDELINES FOR LABORATORY PROCEDURES.
- A. PH - 5.0 & 8.0 IN ACCORDANCE WITH TMECC 04.11-A, "ELECTROMETRIC PH DETERMINATIONS FOR COMPOST"
  - B. PARTICLE SIZE - 99% PASSING A 1" SIEVE, 90% PASSING A 1/2" SIEVE AND A MINIMUM OF 70% GREATER THAN THE 3/8" SIEVE. A TOTAL OF 98% SHALL NOT EXCEED 3 INCHES IN LENGTH, IN ACCORDANCE WITH TMECC 02.02-B, "SAMPLE SIEVING FOR AGGREGATE SIZE CLASSIFICATION"
  - C. MOISTURE CONTENT OF LESS THAN 60% IN ACCORDANCE WITH STANDARDIZED TEST METHODS FOR MOISTURE DETERMINATION.
  - D. MATERIAL SHALL BE RELATIVELY FREE (<1% BY DRY WEIGHT) OF INERT OR FOREIGN MAN-MADE MATERIALS.
  - E. A SAMPLE SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO BEING USED AND MUST COMPLY WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS.

- 2.0 **MAINTENANCE:**
1. THE CONTRACTOR SHALL MAINTAIN FILTREXX FILTERSOCKS IN A FUNCTIONAL CONDITION AT ALL TIMES AND IT SHALL BE ROUTINELY INSPECTED.
  2. WHERE THE FILTERSOCK REQUIRES REPAIR, IT WILL BE ROUTINELY REPAIRED.
  3. THE CONTRACTOR SHALL REMOVE SEDIMENTS COLLECTED AT THE BASE OF THE FILTERSOCK WHEN THEY REACH 1/3 OF THE EXPOSED HEIGHT OF THE FILTERSOCK, OR AS DIRECTED BY THE ENGINEER.
  4. THE FILTREXX FILTERSOCK WILL BE DISPERSED ON SITE WHEN NO LONGER REQUIRED, AS DETERMINED BY THE ENGINEER. THE NETTING MATERIAL WILL BE DISPOSED OF IN NORMAL TRASH CONTAINERS OR REMOVED BY THE CONTRACTOR.
  5. REGULAR MAINTENANCE INCLUDES LIFTING THE FILTREXX FILTERSOCKS AND CLEANING UNDER THEM AS SEDIMENT COLLECTS.
- 5.0 **METHOD OF MEASUREMENT:**  
BIO ITEMS SHALL SHOW MEASUREMENT AS "FILTREXX FILTERSOCK" PER LINEAR FOOT, INSTALLED OR PER INLET, AS SPECIFIED BY THE ENGINEER.
- 6.0 **PERFORMANCE:**
1. CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING A WORKING EROSION CONTROL SYSTEM AND MAY, WITH APPROVAL OF THE ENGINEER, WORK OUTSIDE THE MINIMUM CONSTRUCTION REQUIREMENTS AS NEEDED.
  2. WHERE THE FILTERSOCK DETERIORATES OR FAILS, IT WILL BE REPAIRED OR REPLACED WITH A MORE EFFECTIVE ALTERNATIVE.
  3. CONTRACTOR IS REQUIRED TO BE A CERTIFIED FILTREXX INSTALLER AS DETERMINED BY FILTREXX INTERNATIONAL, LLC (440-926-8041 OR VISIT WEBSITE AT FILTREXX.COM). CERTIFICATION SHALL BE CONSIDERED CURRENT IF APPROPRIATE IDENTIFICATION IS SHOWN DURING TIME OF BID OR AT TIME OF APPLICATION.

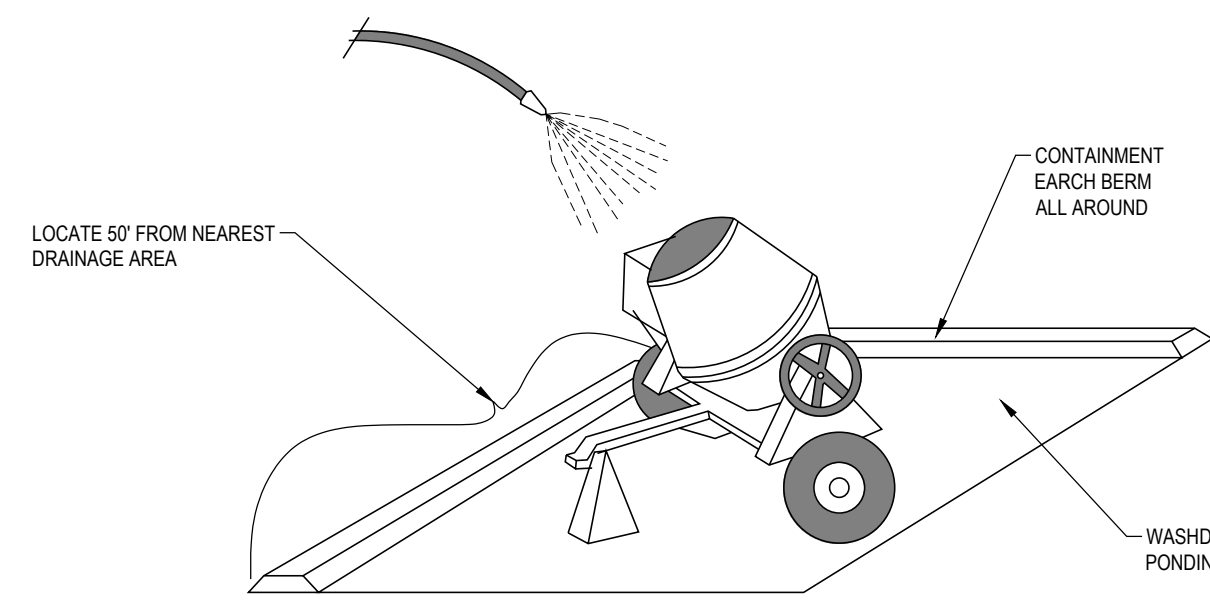
- 7.0 **APPLICATION GUIDELINES:**
1. FILTREXX FILTERSOCKS SHALL EITHER BE MADE ON SITE OR DELIVERED TO THE JOBSITE USING A 3 MIL TUBULAR HOPE KNITTED MESH NETTING MATERIAL, FILLED WITH COMPOST PASSING THE ABOVE SPECIFICATIONS FOR COMPOST PRODUCTS AS OUTLINED IN 2.0.
  2. FILTREXX FILTERSOCKS NETTING MATERIALS ARE AVAILABLE ONLY FROM FILTREXX INTERNATIONAL, LLC AND ARE THE ONLY CERTIFIED MESH MATERIALS ACCEPTED IN CREATING FILTREXX PRODUCTS ON SITE OR AS DELIVERED TO THE JOB SITE. STANDARD FILTREXX COLOR CODING SYSTEMS INCLUDE YELLOW AND BLACK STRIPED MESH NETTING WITH 3/8" MESH OPENINGS FOR INLET PROTECTION. OTHER COLORS ARE ONLY ACCEPTABLE AS APPROVED BY BOTH THE ENGINEER AND FILTREXX INTERNATIONAL, LLC.
  3. CONTRACTOR IS REQUIRED TO BE A CERTIFIED FILTREXX INSTALLER AS DETERMINED BY FILTREXX INTERNATIONAL, LLC (440-926-8041 OR VISIT WEBSITE AT FILTREXX.COM). CERTIFICATION SHALL BE CONSIDERED CURRENT IF APPROPRIATE IDENTIFICATION IS SHOWN DURING TIME OF BID OR AT TIME OF APPLICATION.

8.0 **AVAILABLE VENDORS:** FILTREXX FILTERSOCKS MAY BE PURCHASED FROM THE FOLLOWING CERTIFIED FILTREXX INSTALLERS:

WINDSWEEP ORGANIC INC.  
WORK: 480-963-4638  
FAX: 408-940-4261  
850 SOUTH BOULE AVENUE, SUITE 2  
CHANDLER, AZ 85225



**SEDIMENT BARRIER / FILTER SOCK PROTECTION** (A1)  
SCALE: N.T.S.



- OBJECTIVES**
- HOUSEKEEPING PRACTICES
  - CONTAIN WASTE
  - MINIMIZE DISTURBED AREA
  - STABILIZE DISTURBED AREA
  - PROTECT SLOPES/CHANNELS
  - CONTROL SITE PERIMETER
  - CONTROL INTERNAL EROSION

- TARGETED POLLUTANTS**
- SEDIMENT
  - NUTRIENTS
  - TOXIC MATERIALS
  - OIL & GREASE
  - FLOATABLE MATERIALS
  - OTHER WASTE

- IMPLEMENTATION REQUIREMENTS**
- HIGH IMPACT
  - MEDIUM IMPACT
  - LOW OR UNKNOWN IMPACT

**DESCRIPTION:**  
PREVENT OR REDUCE THE DISCHARGE OF POLLUTANTS TO STORM WATER FROM CONCRETE WASTE BY CONDUCTING WASHOUT OFF-SITE, PERFORMING ON-SITE WASHOUT IN A DESIGNATED AREA, AND TRAINING EMPLOYEES AND SUBCONTRACTORS.

**APPLICATIONS:**

- THIS TECHNIQUE IS APPLICABLE TO ALL TYPES OF SITES.

**INSTALLATION/APPLICATION CRITERIA:**

- STORE DRY AND WET MATERIALS UNDER COVER, AWAY FROM DRAINAGE AREAS.
- AVOID MIXING EXCESS AMOUNTS OF FRESH CONCRETE OR CEMENT ON-SITE.
- PERFORM WASHOUT OF CONCRETE TRUCKS OFF-SITE OR IN DESIGNATED AREAS ONLY.
- DO NOT WASH OUT CONCRETE TRUCKS INTO STORM DRAINS, OPEN DITCHES, STREETS, OR STREAMS.
- DO NOT ALLOW EXCESS CONCRETE TO BE DUMPED ON-SITE, EXCEPT IN DESIGNATED AREAS.
- WHEN WASHING CONCRETE TO REMOVE FINE PARTICLES AND EXPOSE THE AGGREGATE, AVOID CREATING RUNOFF BY DRAINING THE WATER WITHIN A BERMED OR LEVEL AREA (SEE EARTH BERM BARRIER INFORMATION SHEET 1).
- TRAIN EMPLOYEES AND SUBCONTRACTORS IN PROPER CONCRETE WASTE MANAGEMENT.

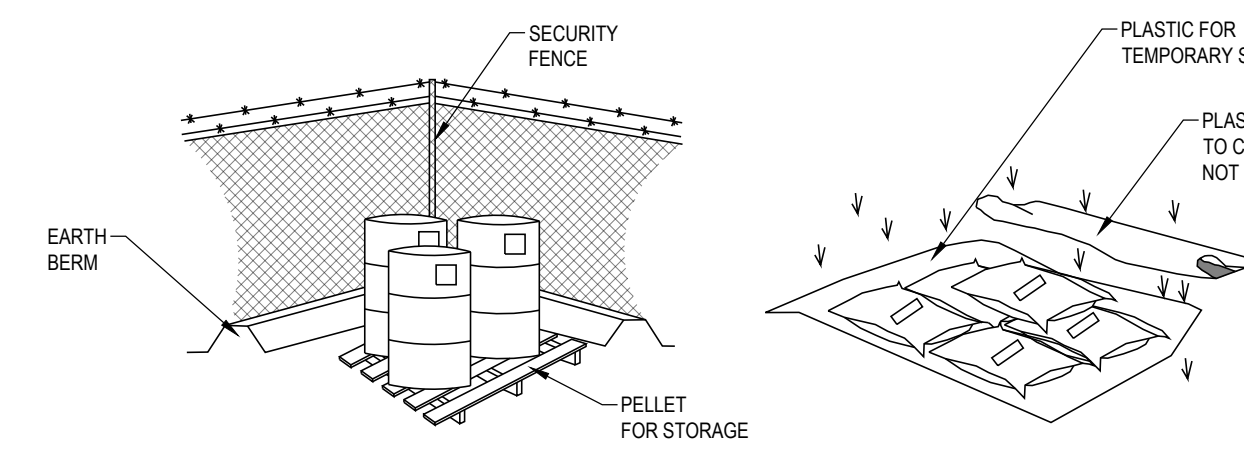
**LIMITATIONS:**

- OFF-SITE WASHOUT OF CONCRETE WASTES MAY NOT ALWAYS BE POSSIBLE.

**MAINTENANCE:**

- INSPECT SUBCONTRACTORS TO ENSURE THAT CONCRETE WASTES ARE BEING PROPERLY MANAGED.
- IF USING A TEMPORARY PIT, DISPOSE HARDENED CONCRETE ON A REGULAR BASIS.

**CONCRETE WASTE MANAGEMENT** (A3)  
SCALE: N.T.S.



- CONTROLLED STORAGE LOCATION
- BERMED PERIMETER IMPOUNDMENT
- STORAGE OFF GROUND
- COVER WHEN NOT IN USE

- OBJECTIVES**
- HOUSEKEEPING PRACTICES
  - CONTAIN WASTE
  - MINIMIZE DISTURBED AREA
  - STABILIZE DISTURBED AREA
  - PROTECT SLOPES/CHANNELS
  - CONTROL SITE PERIMETER
  - CONTROL INTERNAL EROSION

- TARGETED POLLUTANTS**
- SEDIMENT
  - NUTRIENTS
  - TOXIC MATERIALS
  - OIL & GREASE
  - FLOATABLE MATERIALS
  - OTHER WASTE

- IMPLEMENTATION REQUIREMENTS**
- HIGH IMPACT
  - MEDIUM IMPACT
  - LOW OR UNKNOWN IMPACT

**DESCRIPTION:**  
CONTROLLED STORAGE OF ON-SITE MATERIALS.

**APPLICATIONS:**

- STORAGE OF HAZARDOUS, TOXIC, AND ALL CHEMICAL SUBSTANCES.
- ANY CONSTRUCTION SITE WITH OUTSIDE STORAGE OF MATERIALS.

**INSTALLATION/APPLICATION CRITERIA:**

- DESIGNATE A SECURED AREA WITH LIMITED ACCESS AS THE STORAGE LOCATION. ENSURE NO WATERWAYS OR DRAINAGE PATHS ARE NEARBY.
- CONSTRUCT COMPACTED EARTHEN BERM (SEE EARTH BERM BARRIER INFORMATION SHEET), OR SIMILAR PERIMETER CONTAINMENT AROUND STORAGE LOCATION FOR IMPOUNDMENT IN THE CASE OF SPILLS.
- ENSURE ALL ON-SITE PERSONNEL UTILIZE DESIGNATED STORAGE AREA. DO NOT STORE EXCESSIVE AMOUNTS OF MATERIAL THAT WILL NOT BE UTILIZED ON SITE.
- FOR ACTIVE USE OF MATERIAL, AWAY FROM THE STORAGE AREA ENSURE MATERIALS ARE NOT SET DIRECTLY ON THE GROUND AND ARE COVERED WHEN NOT IN USE. PROTECT STORM DRAINAGE DURING USE.

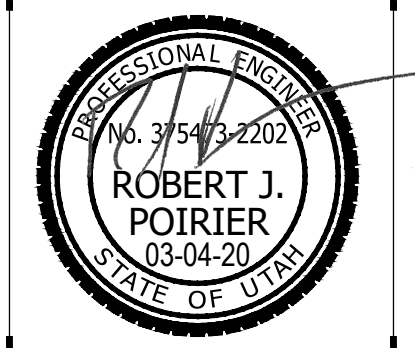
**LIMITATIONS:**

- DOES NOT PREVENT CONTAMINATION DUE TO MISHANDLING OF PRODUCTS.
- SPILL PREVENTION AND RESPONSE PLAN STILL REQUIRED.
- ONLY EFFECTIVE IF MATERIALS ARE ACTIVELY STORED IN CONTROLLED LOCATION.

**MAINTENANCE:**

- INSPECT DAILY AND REPAIR ANY DAMAGE TO PERIMETER IMPOUNDMENT OR SECURITY FENCING.
- CHECK MATERIALS ARE BEING CORRECTLY STORED (I.E. STANDING UPRIGHT, IN LABELED CONTAINERS, TIGHTLY CAPPED) AND THAT NO MATERIALS ARE BEING STORED AWAY FROM THE DESIGNATED LOCATION.

**MATERIALS STORAGE** (A5)  
SCALE: N.T.S.



REV	DATE	DESCRIPTION

**PROJECT NO:** 20117  
**DRAWN BY:** CCW  
**CHECKED BY:** RJP  
**DATE:** MARCH 4, 2020

**CIVIL DETAILS**

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**PLANTING SCHEDULE**

**GENERAL NOTES**

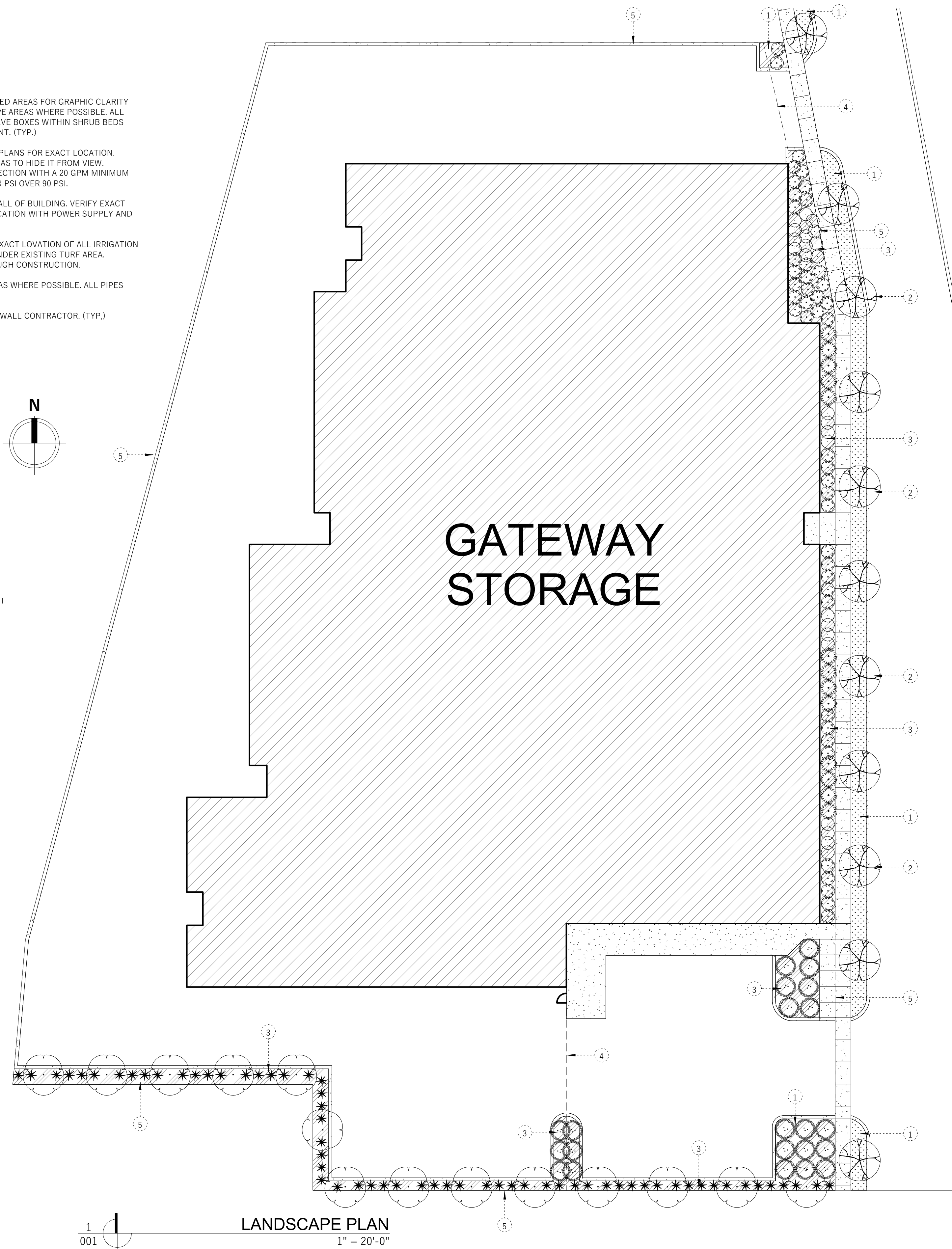
- (A) IRRIGATION PIPING AND EQUIPMENT ARE SHOWN IN PAVED AREAS FOR GRAPHIC CLARITY ONLY. LOCATE ALL PIPES AND EQUIPMENT IN LANDSCAPE AREAS WHERE POSSIBLE. ALL PIPES UNDER PAVEMENT SHALL BE SLEEVED. ALIGN VALVE BOXES WITHIN SHRUB BEDS AND ALIGN WITH BUILDING, WALL, OR EDGE OF PAVEMENT. (TYP.)
- (B) CONNECT SERVICE LINE TO 1" WATER METER. SEE CIVIL PLANS FOR EXACT LOCATION. PLACE ALL IRRIGATION EQUIPMENT IN PLANTER BED SO AS TO HIDE IT FROM VIEW. IRRIGATION IS DESIGNED FOR 75 PSI AT POINT OF CONNECTION WITH A 20 GPM MINIMUM FLOW. CONTRACTOR TO USE PRESSURE REGULATOR FOR PSI OVER 90 PSI.
- (C) WALL MOUNT IRRIGATION CONTROLLER ON INTERIOR WALL OF BUILDING. VERIFY EXACT LOCATION WITH OWNER. COORDINATE CONTROLLER LOCATION WITH POWER SUPPLY AND ELECTRICAL ENGINEER.
- (D) EXISTING IRRIGATION - CONTRACTOR TO FIELD VERIFY EXACT LOCATION OF ALL IRRIGATION AND TO PROTECT IN PLACE ALL EXISTING IRRIGATION UNDER EXISTING TURF AREA. CONTRACTOR TO PROTECT IN PLACE LANDSCAPE THROUGH CONSTRUCTION.
- (E) LOCATE ALL PIPES AND EQUIPMENT IN LANDSCAPE AREAS WHERE POSSIBLE. ALL PIPES UNDER PAVEMENT SHALL BE SLEEVED (TYP.)
- (F) INSTALL SLEEVES THROUGH WALLS. COORDINATE WITH WALL CONTRACTOR. (TYP.)

**LINETYPE LEGEND**

- PROPERTY LINE
- - - SITE SETBACK/EASEMENT LINES
- BUILDING FOOTPRINT

**KEYED NOTES**

- 1 TURF AREA (TYP.)
- 2 STREET TREES - 1 PER EVERY 30' - CITY REQUIREMENT
- 3 PLANTING AREA (TYP.)
- 4 GATE - SEE ARCH. PLANS
- 5 PROPERTY LINE (TYP.)



**TREES**

	<b>BOTANICAL NAME / COMMON NAME</b>	<b>SIZE</b>	<b>CONT.</b>	<b>HZONE</b>	<b>QTY</b>
	ACER GINNALA 'FLAME' / FLAME AMUR MAPLE	2" CAL.	B&B	TD4	11
	CARPINUS BETULUS 'FRANZ FONTAINE' / FRANZ FONTAINE HORNBEAM - KEEP TRIMMED REGULARLY	2" CAL.	B&B	TD4	-
	EXISTING TREE / DECIDUOUS PROTECT-IN-PLACE	REMOVE AND REPLACE			
	ZELKOVA SERRATA 'MUSASHINO' / MUSASHINO ZELKOVA	2" CAL.	B&B	TD4	14
	ZELKOVA SERRATA 'VILLAGE GREEN' / VILLAGE GREEN ZELKOVA	4" CAL.	B&B	TD4	-

**SHRUBS**

	<b>BOTANICAL NAME / COMMON NAME</b>	<b>SIZE</b>	<b>HZONE</b>	<b>QTY</b>
	BUXUS X 'GREEN VELVET' / GREEN VELVET BOXWOOD	5 GAL.	SE4	
	GAURA LINDHEIMERI 'WHIRLING BUTTERFLIES' / WHIRLING BUTTERFLIES GAURA	5 GAL.	P1	
	PHYSOCARPUS OPULIFOLIUS 'DONNA MAY' / DONNA MAY NINEBARK	5 GAL.	SD4	
	RHUS AROMATICA 'GRO-LOW' / GRO-LOW FRAGRANT SUMAC - TRIM TO FORM DENSE GROUNDCOVER	5 GAL.	GV1	
	TAXUS CUSPIDATA 'DENSIFORMIS' / DENSE JAPANESE YEW	5 GAL.	SE3	45

**GRASSES**

	<b>BOTANICAL NAME / COMMON NAME</b>	<b>SIZE</b>	<b>HZONE</b>	<b>QTY</b>
	CALAMAGROSTIS X ACUTIFLORA 'KARL FORESTER' / KARL FORESTER GRASS	5 GAL.	TW2	
	PENNISETUM ALOPECUROIDES 'KARLEY ROSE' / KARLEY ROSE GRASS	5 GAL.	TW2	

**ROCK MULCH**

	<b>BOTANICAL NAME / COMMON NAME</b>	<b>CONT.</b>	<b>HZONE</b>	<b>QTY</b>
	3/4" DARK GRAY PERMABARK	N/A		3425 SF
	WASATCH GRAY CRUSHER FINES (CHAT)	N/A		-

**SOIL**

	<b>BOTANICAL NAME / COMMON NAME</b>	<b>CONT.</b>	<b>HZONE</b>	<b>QTY</b>
	GARDEN SOIL	N/A		-

**TURF**

	<b>BOTANICAL NAME / COMMON NAME</b>	<b>CONT.</b>	<b>HZONE</b>	<b>QTY</b>
	BIO BLUE SOD / BLUEGRASS AND FECUE BLEND	SOD		-
	EXISTING TURF PROTECT-IN-PLACE	EXISTING		1480 SF