



State of Utah

GARY R. HERBERT
Governor

GREGORY S. BELL
Lieutenant Governor

Department of Administrative Services

KIMBERLY K. HOOD
Executive Director

Division of Facilities Construction and Management

DAVID G. BUXTON
Director

ADDENDUM NO. 1

Date: July 15, 2010

To: Contractors

From: Lucas Davis

Reference: A-1 Parking Lot Reconstruction
Weber State University - Ogden, Utah
Project No.10177810

Subject: **Addendum No. 1**

Pages	Addendum	1 page
	<u>Engineers Addendum</u>	<u>15 pages</u>
	Total	16 pages

Note: *This Addendum shall be included as part of the Contract Documents. Items in this Addendum apply to all drawings and specification sections whether referenced or not involving the portion of the work added, deleted, modified, or otherwise addressed in the Addendum. Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to Disqualification.*

1.1 SCHEDULE CHANGES – There are no changes to the project schedule.

1.2 GENERAL

1. – General Note: Construction of new State buildings and remodeling of existing buildings shall comply with all the requirements of the DFCM Standards. The DFCM Standards can be found at the following web site: www.dfc.utah.gov. This requirement also includes the enhanced accessibility standards. Please provide a statement that the drawings meet the DFCM standards.
See note 1 on Cover Sheet in the General Notes section (bottom middle)
2. Plans shall include drawings and sections through the accessible curb ramps.
See details added to the new Detail Sheet C 10.0
3. Provide a section of the vertical accessible parking signs. Show 5 feet from the ground to the bottom of the sign.
See details added to the new Detail Sheet C 10.0

Utah!
Where ideas connect



CALL BLUESTAKES
@ 1-800-662-4111
AT LEAST 48 HOURS PRIOR
TO THE COMMENCEMENT OF
ANY CONSTRUCTION.

WEBER STATE UNIVERSITY

A-1 PARKING LOT RE-CONSTRUCTION

3848 HARRISON BOULEVARD
OGDEN CITY, UTAH

DFCM PROJECT NUMBER #10177810

FOR APPROVAL
NOT FOR CONSTRUCTION

DATE PRINTED
July 15, 2010

INDEX OF DRAWINGS

- C 1.0 TOPOGRAPHY SURVEY
- C 2.0 DEMOLITION PLAN
- C 3.0 SITE DIMENSION PLAN
- C 4.0 GRADING & DRAINAGE PLAN
- C 5.0 EROSION CONTROL PLAN
- C 6.0 STORMWATER POLLUTION PREVENTION PLAN
- C 7.0 PAVING OVERLAY PLAN
- C 8.0 STRIPING PLAN
- C 9.0 GENERAL NOTES, DETAILS & SPECIFICATIONS
- C 10.0 DETAILS
- L 1.0 LANDSCAPE PLAN
- L 2.0 IRRIGATION PLAN
- PP-1 EDVALSON STREET PLAN & PROFILE

UTILITY DISCLAIMER

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND / OR ELEVATIONS OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE LOCAL UTILITY LOCATION CENTER AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.

NOTICE TO CONTRACTOR

ALL CONTRACTORS AND SUBCONTRACTORS PERFORMING WORK SHOWN ON OR RELATED TO THESE PLANS SHALL CONDUCT THEIR OPERATIONS SO THAT ALL EMPLOYEES ARE PROVIDED A SAFE PLACE TO WORK AND THE PUBLIC IS PROTECTED. ALL CONTRACTORS AND SUBCONTRACTORS SHALL COMPLY WITH THE "OCCUPATIONAL SAFETY AND HEALTH REGULATIONS OF THE U.S. DEPARTMENT OF LABOR AND THE STATE OF UTAH DEPARTMENT OF INDUSTRIAL RELATIONS CONSTRUCTION SAFETY ORDERS." THE CIVIL ENGINEER SHALL NOT BE RESPONSIBLE IN ANY WAY FOR THE CONTRACTORS AND SUBCONTRACTORS COMPLIANCE WITH SAID REGULATIONS AND ORDERS.

CONTRACTOR FURTHER AGREES TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB-SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE CIVIL ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR ENGINEER.

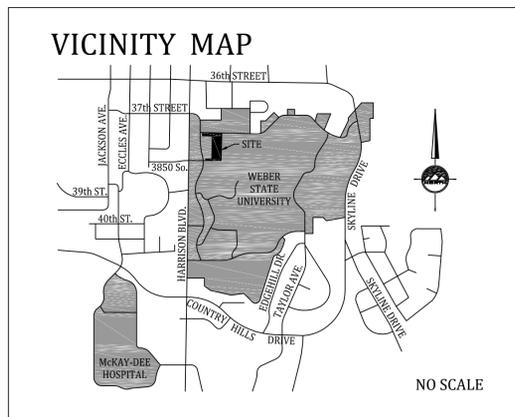
NOTICE TO DEVELOPER/ CONTRACTOR

UNAPPROVED DRAWINGS REPRESENT WORK IN PROGRESS, ARE SUBJECT TO CHANGE, AND DO NOT CONSTITUTE A FINISHED ENGINEERING PRODUCT. ANY WORK UNDERTAKEN BY DEVELOPER OR CONTRACTOR BEFORE PLANS ARE APPROVED IS UNDERTAKEN AT THE SOLE RISK OF THE DEVELOPER, INCLUDING BUT NOT LIMITED TO BIDS, ESTIMATION, FINANCING, BONDING, SITE CLEARING, GRADING, INFRASTRUCTURE CONSTRUCTION, ETC.

CITY ENGINEER ACCEPTANCE OF IMPROVEMENT PLANS

THE IMPROVEMENT PLANS FOR THIS SUBDIVISION HAVE BEEN REVIEWED BY THE CITY ENGINEER FOR GENERAL CONFORMANCE WITH THE REQUIREMENTS OF THE CITY SUBDIVISION ORDINANCE. THIS SET OF CITY APPROVED DRAWINGS SHALL BE USED FOR CONSTRUCTION OF THE REQUIRED SUBDIVISION IMPROVEMENTS. THE DEVELOPER'S ENGINEER, WHOSE STAMP IS ON THESE DRAWINGS, IS RESPONSIBLE FOR THE ENGINEERING DESIGN, DRAFTING AND RELATED FIELD INFORMATION. THE CONSTRUCTION CONTRACTOR IS RESPONSIBLE FOR THE DIMENSIONS WHICH SHALL BE CONFIRMED AND CORRELATED AT THE JOB SITE, FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION, COORDINATION OF HIS OR HER WORK WITH THAT OF ALL OTHER TRADES, AND THE SATISFACTORY PERFORMANCE OF HIS OR HER WORK.

BY: _____ DATE: _____
CITY ENGINEER



GENERAL NOTES

- ALL WORK SHALL CONFORM WITH STATE OF UTAH DFCM STANDARDS & SPECIFICATIONS AND UDOT STANDARDS AND SPECIFICATIONS FOR THE WORK TO BE COMPLETED ON EDVALSON STREET.
- CALL BLUE STAKES 48 HOURS PRIOR TO DIGGING.
- BENCHMARK ELEVATION = WEBER COUNTY BENCHMARK #WC-31 1985 LOCATED AT THE NORTHEAST CORNER OF THE MCKAY DEE HOSPITAL GROUNDS. BRASS CAP SET IN A CONCRETE BASE 5 FEET WEST OF HARRISON CURBING, 3 FEET NORTH OF A MANHOLE COVER, 7 FEET SOUTH OF RETAINING WALL WITH CHAINLINK FENCE. ELEV. = 4611.007
LOCAL BENCHMARK TOP OF RETAINING WALL BEFORE TAPER AT BACK OF SIDEWALK ON THE SOUTH SIDE OF EDVALSON STREET AND THE EAST SIDE OF THE PARKING LOT. ELEV. = 4606.20.
- CONTRACTOR SHALL FIELD VERIFY LOCATIONS OF ALL EXISTING MANHOLES AND OTHER UTILITIES BEFORE CONSTRUCTING ANY IMPROVEMENTS.
- DFCM PROJECT NO. 10177810.
- PARKING LOT IS DESIGNATED AS AN "A-1" PARKING LOT.

ENGINEER/SURVEYOR:



LAYTON
1485 West Hillfield Rd.
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4110 STATE OFFICE BUILDING
SALT LAKE CITY, UT, 84114

CONTACT:
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PHONE: 801-538-3791
FAX: 801-538-3267

WEBER STATE UNIVERSITY
A-1 PARKING LOT RE-CONSTRUCTION
3848 HARRISON BOULEVARD
OGDEN CITY, UTAH



NO.	DATE	REVISION	BY
1	6-18-10	FOR REVIEW	MCE
2	6-29-10	FOR REVIEW	MCE
3	7-2-10	FOR APPROVAL	CF
4	7-15-10	FOR APPROVAL	CF
5			
6			
7			
8			

COVER SHEET

PROJECT NUMBER: L1908
DATE: 7/15/10
DRAWN BY: M.ELMNER
CHECKED BY: C.PRESTON
PROJECT MANAGER: K.RUSSELL

C-0



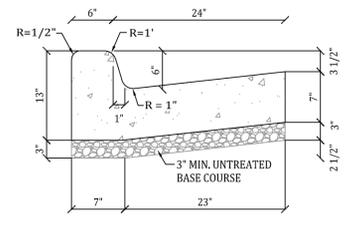
CALL BLUESTAKES
@ 1-800-462-4111 AT LEAST
48 HOURS PRIOR TO THE
COMMENCEMENT OF ANY
CONSTRUCTION.

NOTE

- ALL WORK SHALL COMPLY WITH CURRENT UDOT STANDARD PLANS AND SPECIFICATIONS. ALL CURB & GUTTER, SIDEWALK AND ASPHALT SAWCUT AND PATCH ALONG EDVALSON STREET SHALL BE INSTALLED PER UDOT STANDARD DRAWINGS AND SPECIFICATIONS.
- SAW CUT EDGE OF EXISTING ASPHALT AND INSTALL ASPHALT PATCH TO NEW LIP OF CURB AND GUTTER.

NOTICE TO CONTRACTOR

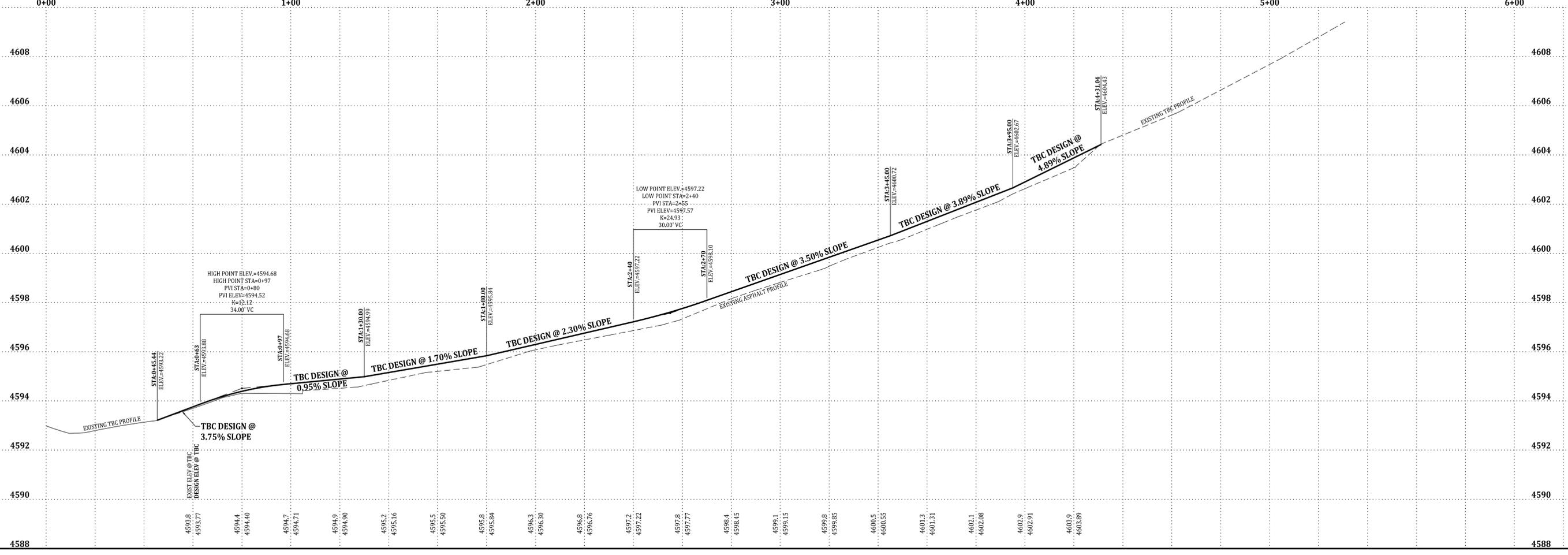
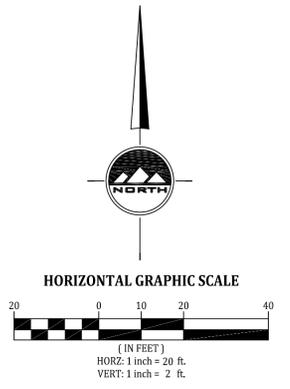
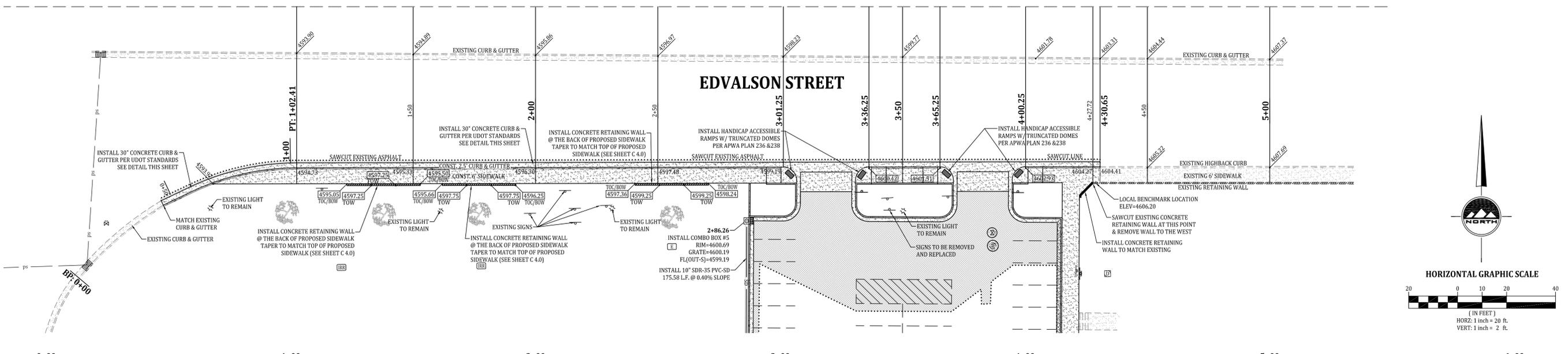
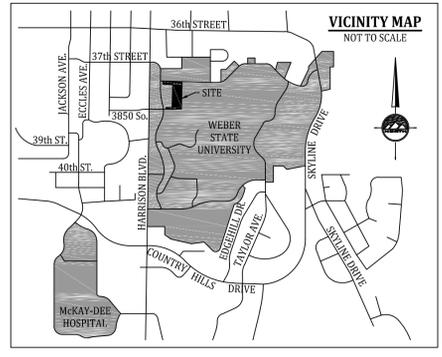
The intent of the installation of curb and gutter along EDVALSON STREET is to match the existing asphalt paving such that proper drainage of both the existing and proposed asphalt into the proposed curb and gutter is accomplished. It is the RESPONSIBILITY OF THE CONTRACTOR to verify that drainage into the proposed curb and gutter of all run-off water from the street is accomplished prior to the placement of any concrete. Notice to Ensign Engineering of variations from the design drawings is required prior to any placement of the proposed curb and gutter.



UDOT TYPE B1 CURB DETAIL
SCALE: NONE

LEGEND

- EXISTING REBAR AND CAP
- SET ENSIGN REBAR AND CAP
- ⊗ EXISTING WATER VALVE
- ⊗ EXISTING FIRE HYDRANT
- ⊗ EXISTING WATER MANHOLE
- ⊗ EXISTING SANITARY SEWER MANHOLE
- ⊗ EXISTING STORM DRAIN CLEAN OUT
- ⊗ EXISTING STORM DRAIN CATCH BASIN
- ⊗ PROPOSED STORM DRAIN CATCH BASIN
- ⊗ EXISTING IRRIGATION BOX
- ⊗ EXISTING SIGN
- EXISTING ELECTRICAL BOX
- ☆ EXISTING LIGHT
- ⊗ EXISTING TREE
- TOP OF WALL
- TOP OF CONCRETE / BOTTOM OF WALL
- XXXXXX PROPOSED TBC ELEVATION
- - - - EXISTING EDGE OF ASPHALT
- - - - PROPOSED EDGE OF ASPHALT
- ▨ EXISTING CONCRETE
- ▨ PROPOSED CONCRETE
- ▨ PROPOSED NEW ASPHALT



ENSIGN

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A-1 PARKING LOT RE-CONSTRUCTION
3848 HARRISON BOULEVARD
OGDEN CITY, UTAH

EDVALSON STREET PLAN & PROFILE

PP-1

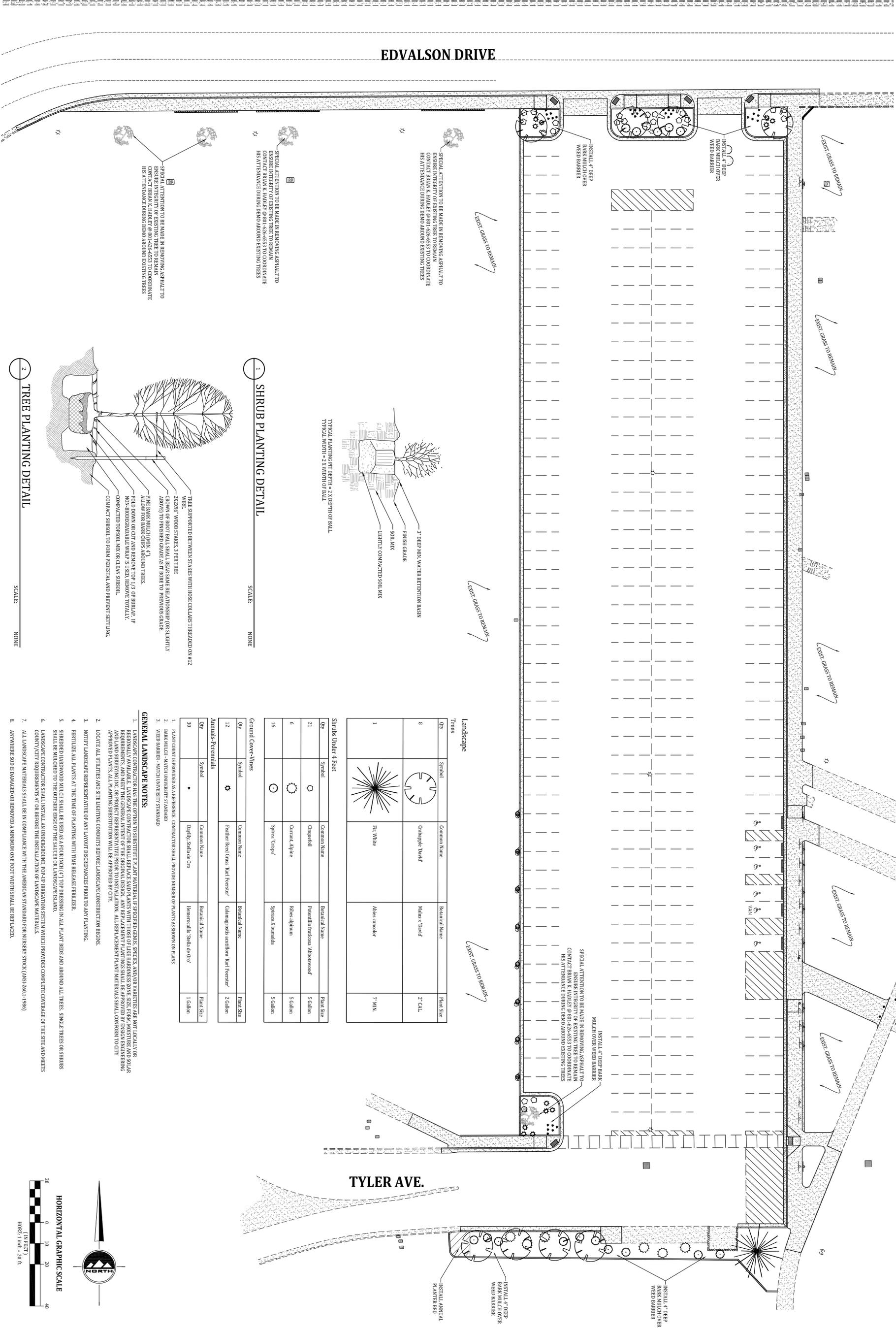
NO. DATE REVISION BY

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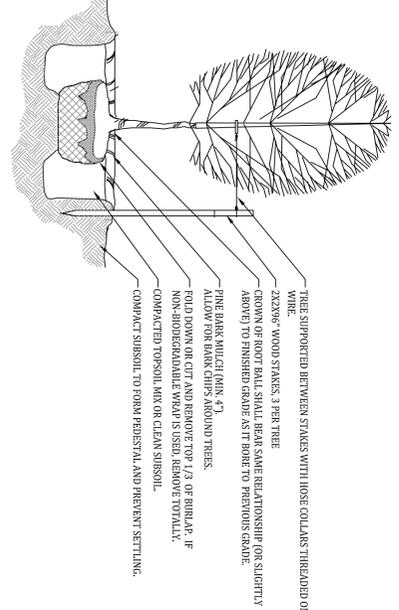
PROJECT NUMBER: 11908 DATE: 7/15/10

DRAWN BY: M.ELMER CHECKED BY: C.PRESTON

PROJECT MANAGER: K.RUSSELL



SCALE: NONE



SCALE: NONE

Landscape

Qty	Symbol	Common Name	Botanical Name	Plant Size
8		Cedrope David	Morus David	7' CAL.
1		Fig White	Aloes ovoides	7' MIN.

Shrubs Under 4 Feet

Qty	Symbol	Common Name	Botanical Name	Plant Size
21		Cingetoli	Potentilla fruticosa 'Abbotswood'	5 Gallon
6		Currant, Alpine	Ribes alpinum	5 Gallon
16		Spines 'Crisp'	Spiraea Ximandala	5 Gallon

Ground Cover/Vines

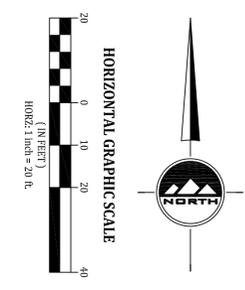
Qty	Symbol	Common Name	Botanical Name	Plant Size
12		Feather Reed Grass 'Karl Foerster'	Calamagrostis acutiflora 'Karl Foerster'	2 Gallon

Annuals-Perennials

Qty	Symbol	Common Name	Botanical Name	Plant Size
30		Begonia, Stella de Oro	Hemerocallis 'Stella de Oro'	1 Gallon

GENERAL LANDSCAPE NOTES:

1. LANDSCAPE CONTRACTOR HAS THE OPTION TO SUBSTITUTE PLANT MATERIAL IF SPECIFIED GENUS, SPECIES, AND/OR VARIETIES ARE NOT LOCALLY OR REGIONALLY AVAILABLE. LANDSCAPE CONTRACTOR SHALL REPLACE SUBSTITUTED PLANTS WITH THOSE OF SIMILAR GROWTH HABIT, SIZE, COLOR, MATURATION AND SOIL AND LAND SURVEYING, INC. OR PROJECT REPRESENTATIVE PRIOR TO INSTALLATION. ALL REPLACEMENT PLANT MATERIALS SHALL CONFORM TO CITY APPROVED PLANTS. ALL PLANTING SUBSTITUTION WILL BE APPROVED BY CITY.
2. LOCALITY ALL UTILITIES AND SITE LIGHTING CONDUITS BEFORE LANDSCAPE CONSTRUCTION BEGINS.
3. NOTIFY LANDSCAPE REPRESENTATIVE OF ANY LAYOUT DISCREPANCIES PRIOR TO ANY PLANTING.
4. FERTILIZE ALL PLANTS AT THE TIME OF PLANTING WITH TIME RELEASE FERTILIZER.
5. SHREDED HARDWOOD MULCH SHALL BE USED AS A FOUR INCH (4") TOP DRESSING IN ALL PLANT BEDS AND AROUND ALL TREES, SINGLE TREES OR SHRUBS SHALL BE MULCHED TO THE OUTSIDE EDGE OF THE SUCER OR LANDSCAPE ISLAND.
6. LANDSCAPE CONTRACTOR SHALL INSTALL AN UNDERGROUND POLETOP IRRIGATION SYSTEM WHICH PROVIDES COMPLETE COVERAGE OF THE SITE AND MEETS COUNTY/CITY REQUIREMENTS AS OR BEFORE THE INSTALLATION OF LANDSCAPE MATERIALS.
7. ALL LANDSCAPE MATERIALS SHALL BE IN COMPLIANCE WITH THE AMERICAN STANDARD FOR WILSON'S STOCK (ANSI Z60.1-1986)
8. ANYWHERE SOIL IS DAMAGED OR REMOVED A MINIMUM ONE FOOT WIDTH SHALL BE REPLACED.



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FOR:
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SALT LAKE CITY, UT 84114

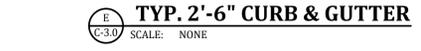
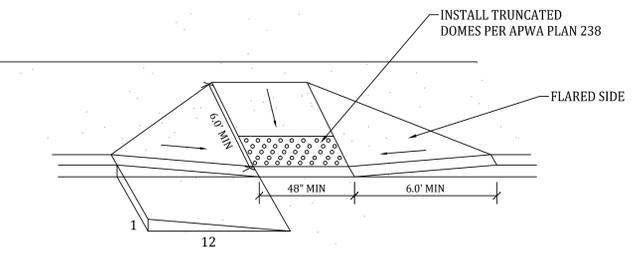
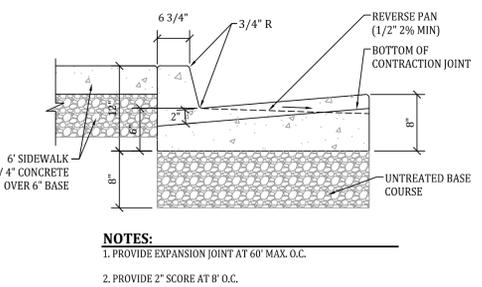
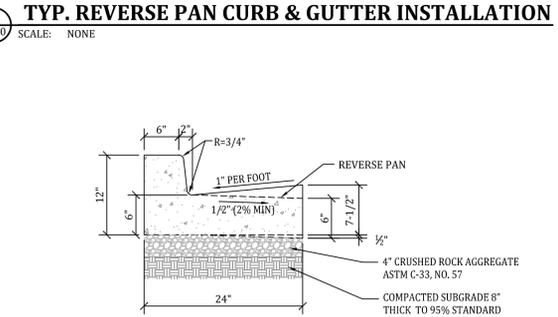
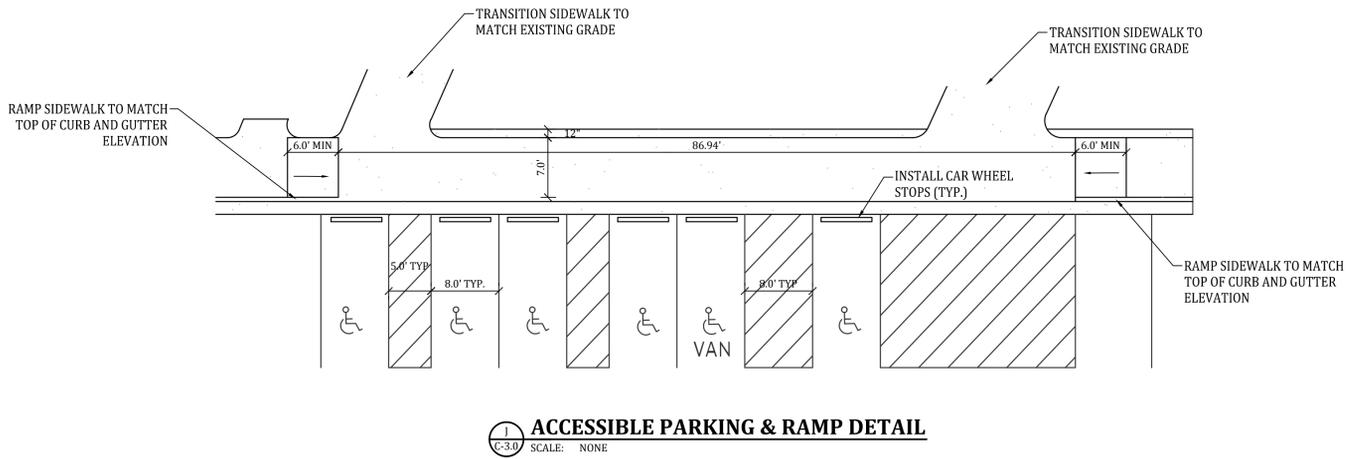
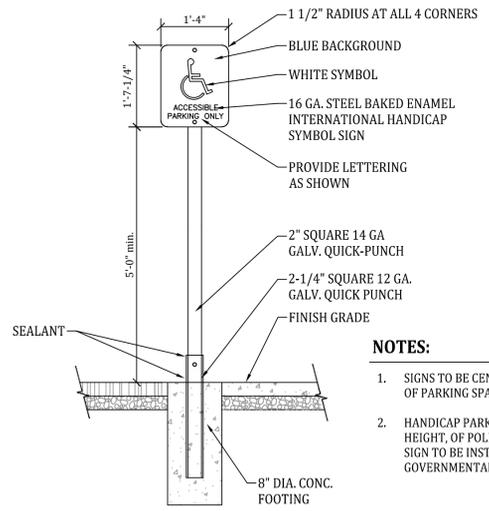
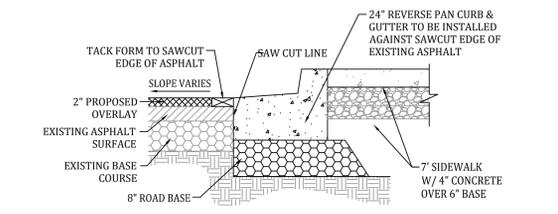
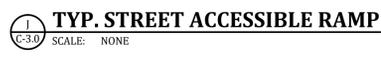
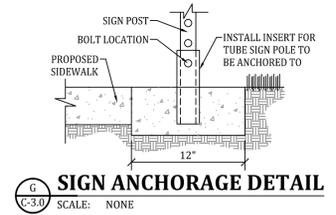
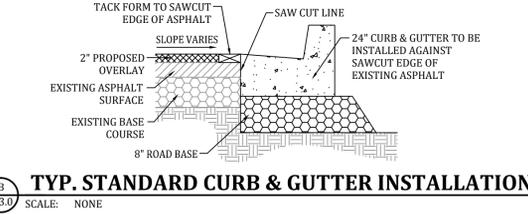
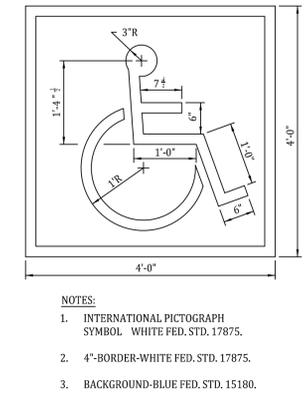
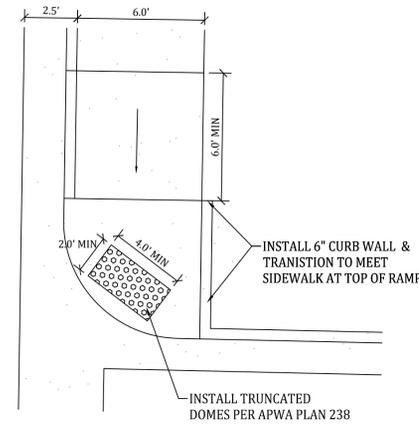
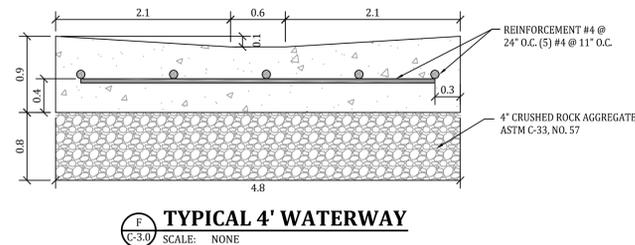
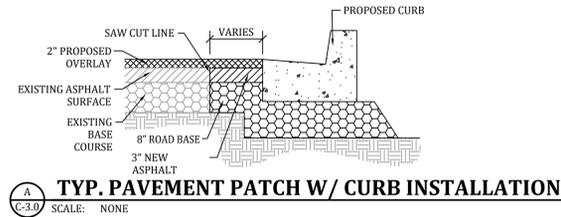
CONTACT:
LUCAS DAVIS
PHONE: 801-538-3291
FAX: 801-538-3267

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3	6-21-10	FOR APPROVAL	CF
4			
5			
6			
7			

LANDSCAPE PLAN

PROJECT NUMBER: 117380
DATE: 7/15/10
DRAWN BY: CHADSON
CHECKED BY: CHADSON
PROJECT MANAGER: KIRSTIN LIL
L1.0



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1485 West Hillfield Rd.
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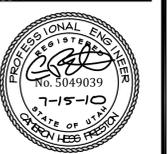
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3	7-2-10	FOR APPROVAL	CP
4	7-15-10	FOR APPROVAL	CP
5			
6			
7			
8			

DETAILS

PROJECT NUMBER: 11908
DATE: 7/15/10
DRAWN BY: [Signature]
CHECKED BY: C.PRESTON
PROJECT MANAGER: K.RUSSELL

C 10.0

GENERAL NOTES

1. ALL WORK TO CONFORM TO APWA STANDARD PLANS AND SPECIFICATIONS & UDOT STANDARDS AND SPECIFICATIONS FOR THE WORK TO BE COMPLETED ALONG EDVALSON STREET.
2. ALL EXISTING MANHOLES, WATER VALVES, CLEAN OUTS, ETC., SHALL BE ADJUSTED TO FINISH GRADE AND A CONCRETE COLLAR WILL BE INSTALLED AROUND SAID STRUCTURE.
3. CONTRACTOR MUST VERIFY ALL EXISTING CONDITIONS BEFORE BIDDING, AND BRING UP ANY QUESTIONS BEFORE SUBMITTING BID.
4. CONTRACTOR TO NOTIFY WEBER STATE UNIVERSITY/DFCM AND ENSIGN ENGINEERING 48 HOURS PRIOR TO BEGINNING ANY CONSTRUCTION REQUIRED FOR THIS PROJECT.
5. CONTRACTOR SHALL PROVIDE A CONSTRUCTION SCHEDULE IN ACCORDANCE WITH THE WEBER STATE UNIVERSITY/DFCM REGULATIONS FOR WORKING IN THE PUBLIC WAY.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR DUST CONTROL, ACCORDING TO GOVERNING AGENCY STANDARDS. WET DOWN DRY MATERIALS AND RUBBISH TO PREVENT BLOWING.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO ADJACENT SURFACE IMPROVEMENTS.
8. CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTING ANY SETTLEMENT OF OR DAMAGE TO EXISTING UTILITIES.
9. THE CONTRACTOR IS RESPONSIBLE TO FURNISH ALL MATERIALS TO COMPLETE THE PROJECT.
10. FULL DEPTH EXPANSION JOINTS WILL BE PLACED AGAINST ANY OBJECT DEEMED TO BE FIXED. AT ALL CHANGES IN DIRECTION, AND IN CURB AND SIDEWALK AT EQUAL INTERVALS NOT TO EXCEED 50 FEET. SLABS ON-GRADE WILL BE TYPICALLY SCORED (1/2 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.
11. CONCRETE WATERWAYS, CURB WALLS, MOW STRIPS, CURB AND GUTTER, ETC., WILL TYPICALLY BE SCORED (1/2 THE DEPTH) AT INTERVALS NOT TO EXCEED 10 FEET, AND HAVE FULL DEPTH EXPANSION JOINTS THAT EQUAL SPACING NOT TO EXCEED 50 FEET.
12. UNLESS OTHERWISE NOTED, ALL ON-GRADE CONCRETE WILL BE PLACED ON A MINIMUM 6" GRAVEL BASE OVER A WELL COMPACTED (95% DENSITY) SUB GRADE.
13. ALL EXPOSED SURFACES WILL HAVE A TEXTURED FINISH, RUBBED, OR BROOMED, ANY "PLASTERING" OF NEW CONCRETE WILL BE DONE WHILE IT IS STILL "GREEN".
14. ALL JOINTS (CONTROL JOINTS, CONSTRUCTION JOINTS, EXPANSION JOINTS, ETC.), WILL BE SEALED WITH A ONE PART POLYURETHANE SEALANT (SEE SPECIFICATION).
15. SAW CUT EDGE OF EXISTING ASPHALT AT PROPOSED LIP OF GUTTER, IF POSSIBLE, TO ELIMINATE ASPHALT PATCH SECTIONS. SEE DETAILS ON C 3.0.
16. ALL EXISTING ASPHALT WILL BE SAW CUT IN NEAT STRAIGHT LINES BY THE CONTRACTOR PRIOR TO PAVING TO MATCH.
17. EXISTING TREES ARE TO REMAIN UNLESS OTHERWISE NOTED.
18. PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED ALL PLANS AND OTHER DOCUMENTS APPROVED BY ALL OF THE PERMITTING AUTHORITIES.
19. SITE GRADING SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS. ALL EXCAVATED OR FILLED AREAS SHALL BE COMPACTED TO 95% OF MODIFIED PROCTOR MAXIMUM DENSITY PER ASTM TEST D-1557. 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 SUB GRADE AREAS WITHIN THE AREAS TO BE PAVED, HAVE BEEN COMPACTED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS.
20. THE LOCATIONS OF UNDERGROUND FACILITIES SHOWN ON THESE PLANS ARE BASED ON FIELD SURVEYS AND LOCAL UTILITY COMPANY RECORDS. IT SHALL BE THE CONTRACTORS FULL RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY COMPANIES TO LOCATE THEIR FACILITIES PRIOR TO PROCEEDING WITH CONSTRUCTION. NO ADDITIONAL COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR DAMAGE AND REPAIR TO THESE FACILITIES CAUSED BY HIS WORK FORCE. CONTRACTORS MUST START AT THE LOW END OF ALL GRAVITY FED LINES AND WORK UPHILL.
21. ALL DIMENSIONS, GRADES, AND UTILITY DESIGN SHOWN ON THE PLANS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE ENGINEER IF ANY DISCREPANCIES EXIST, 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 THE DIMENSIONS OR GRADES SHOWN INCORRECTLY ON THESE PLANS, IF SUCH NOTIFICATION HAS NOT BEEN GIVEN.
22. NO CHANGE IN DESIGN LOCATION OR GRADE WILL BE MADE BY THE CONTRACTOR WITHOUT THE WRITTEN APPROVAL OF THE PROJECT ENGINEER.
23. SITE CLEARING SHALL INCLUDE THE LOCATION AND REMOVAL OF ALL UNDERGROUND TANKS, PIPES, VALVES, ETC.
24. 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.
25. THE CONTRACTOR SHALL PLACE TEMPORARY STREET ASPHALT SURFACES IF THE WORK IS ACCOMPLISHED AT A TIME WHEN PERMANENT ASPHALT SURFACING MATERIAL IS NOT AVAILABLE. AT THE TIME PERMANENT ASPHALT BECOMES AVAILABLE, THE CONTRACTOR SHALL FURNISH AND PLACE ASPHALT PER APWA STANDARDS. THE CONTRACTOR SHALL GUARANTEE THE ASPHALT RESTORATION FOR PERIOD OF TWO YEARS FROM THE DATE OF COMPLETION.
26. CONTRACTOR TO LAYOUT AND POTHOLE FOR ALL POTENTIAL CONFLICTS WITH UTILITY LINES ON OR OFF SITE AS REQUIRED PRIOR TO ANY CONSTRUCTION, AND THE CONTRACTOR WILL VERIFY DEPTHS OF UTILITIES IN THE FIELD BY POT HOLING A MINIMUM OF 300 FEET AHEAD OF PIPELINE CONSTRUCTION TO AVOID CONFLICTS WITH DESIGNED PIPELINE GRADE AND ALIGNMENT. IF A CONFLICT ARISES RESULTING FROM THE CONTRACTOR'S NEGLIGENCE TO POTHOLE UTILITIES, THE CONTRACTOR WILL BE REQUIRED TO RESOLVE THE CONFLICT WITHOUT ADDITIONAL COST OR CLAIM TO THE OWNER OR ENGINEER.
27. CONTRACTOR SHALL NOT ALLOW ANY GROUNDWATER OR DEBRIS TO ENTER THE NEW PIPE DURING CONSTRUCTION.
28. HANDICAP ACCESSIBILITY: ALL CONSTRUCTION SHALL MEET THE ADA HANDICAP ACCESSIBILITY REQUIREMENTS. FOR ANY DISCREPANCIES BETWEEN THE PLANS AND ADA REQUIREMENTS, ADA REQUIREMENTS WILL GOVERN.

NOTICE TO CONTRACTOR

ALL CONTRACTORS AND SUBCONTRACTORS PERFORMING WORK SHOWN ON OR RELATED TO THESE PLANS SHALL CONDUCT THEIR OPERATIONS SO THAT ALL EMPLOYEES ARE PROVIDED A SAFE PLACE TO WORK AND THE PUBLIC IS PROTECTED. ALL CONTRACTORS AND SUBCONTRACTORS SHALL COMPLY WITH THE "OCCUPATIONAL SAFETY AND HEALTH REGULATIONS OF THE U.S. DEPARTMENT OF LABOR AND THE STATE OF UTAH DEPARTMENT OF INDUSTRIAL RELATIONS CONSTRUCTION SAFETY ORDERS." THE CIVIL ENGINEER SHALL NOT BE RESPONSIBLE IN ANY WAY FOR THE CONTRACTORS AND SUBCONTRACTORS COMPLIANCE WITH SAID REGULATIONS AND ORDERS.

CONTRACTOR FURTHER AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB-SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE CIVIL ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR ENGINEER.

UTILITY DISCLAIMER

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND / OR ELEVATIONS OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE LOCAL UTILITY LOCATION CENTER AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.

TRAFFIC CONTROL AND SAFETY NOTES

1. BARRICADING AND DETOURING SHALL BE IN CONFORMANCE WITH THE REQUIREMENTS OF THE CURRENT MANUAL IF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
2. NO STREET SHALL BE CLOSED TO TRAFFIC WITHOUT WRITTEN PERMISSION FROM WEBER STATE UNIVERSITY, EXCEPT WHEN DIRECTED BY LAW ENFORCEMENT OR FIRE OFFICIALS.
3. THE CONTRACTOR SHALL MAKE EVERY EFFORT TO PROVIDE FOR SMOOTH TRAFFIC FLOW AND SAFETY. ACCESS SHALL BE MAINTAINED FOR ALL PROPERTIES ADJACENT TO THE WORK.
4. DETOURING OPERATIONS FOR A PERIOD OF SIX CONSECUTIVE CALENDAR DAYS, OR MORE, REQUIRE THE INSTALLATION OF TEMPORARY STREET STRIPING AND REMOVAL OF INTERFERING STRIPING BY SANDBLASTING. THE DETOURING STRIPING PLAN OR CONSTRUCTION TRAFFIC CONTROL PLAN MUST BE SUBMITTED TO WEBER STATE UNIVERSITY FOR REVIEW AND APPROVAL.
5. ALL TRAFFIC CONTROL DEVICES SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AT THE END OF THE WORK TO THE SATISFACTION OF WEBER STATE UNIVERSITY.
6. TRAFFIC CONTROL DEVICES (TCDs) SHALL REMAIN VISIBLE AND OPERATIONAL AT ALL TIMES.



LAYTON
1485 West Hillfield Rd.
Suite 204
Layton UT 84041
Phone: 801.547.1100
Fax: 801.593.6315

SALT LAKE CITY
Phone: 801.255.0529

PLEASANT GROVE
Phone: 801.796.8145

TOOELE
Phone: 435.843.3590

WWW.ENSIGNUTAH.COM

FOR:
DIVISION OF FACILITIES
CONSTRUCTION & MANAGEMENT
4110 STATE OFFICE BUILDING
SALT LAKE CITY, UT 84114
CONTACT:
LUCAS DAVIS
PHONE: 801-538-3791
FAX: 801-538-3267

**WEBER STATE UNIVERSITY
A-1 PARKING LOT RE-CONSTRUCTION
3848 HARRISON BOULEVARD
OGDEN CITY, UTAH**



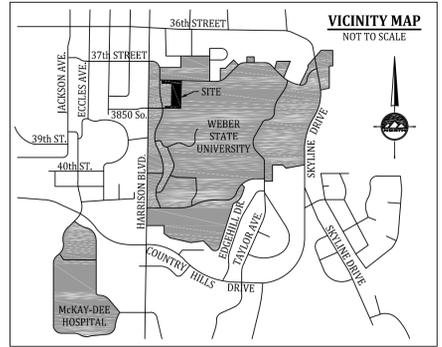
NO.	DATE	REVISION	BY
1	6-16-10	FOR REVIEW	MCE
2	6-29-10	FOR REVIEW	MCE
3	7-2-10	FOR APPROVAL	CP
4	7-15-10	FOR APPROVAL	CP
5			
6			
7			
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**GENERAL NOTES
DETAILS &
SPECIFICATIONS**

PRODUCT NUMBER: 11908
DATE: 7/15/10
DRAWN BY: M.ELMER
CHECKED BY: C.PRESTON
PROJECT MANAGER: K.RUSSELL

C 9.0

CALL BLUESTAKES
@ 1-800-462-4111 AT LEAST
48 HOURS PRIOR TO THE
COMMENCEMENT OF ANY
CONSTRUCTION.



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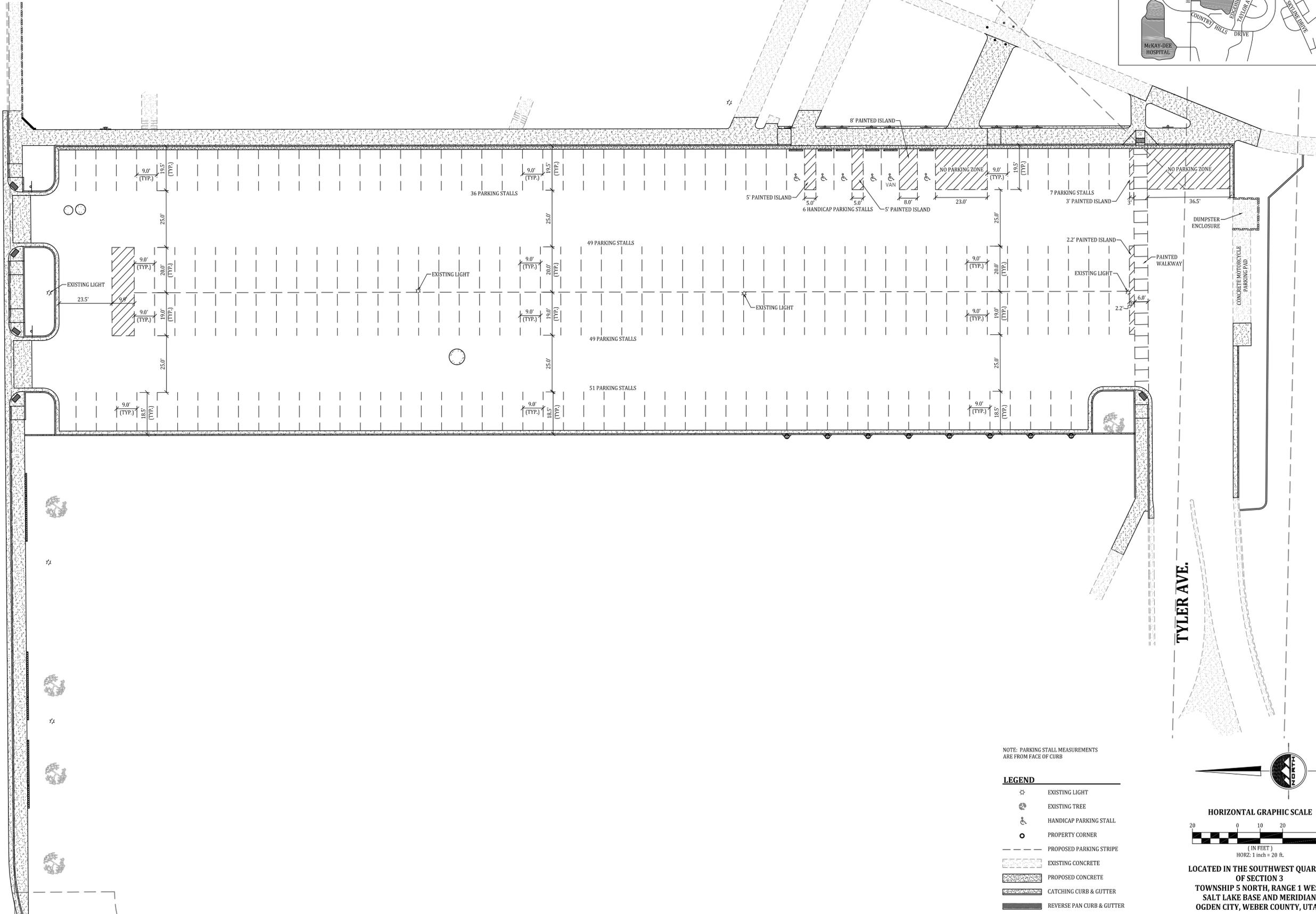
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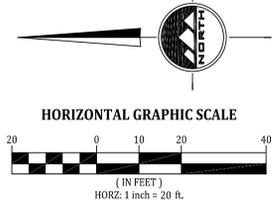
EDVALSON STREET

TYLER AVE.



NOTE: PARKING STALL MEASUREMENTS
ARE FROM FACE OF CURB

- LEGEND**
- ⊙ EXISTING LIGHT
 - 🌳 EXISTING TREE
 - ♿ HANDICAP PARKING STALL
 - PROPERTY CORNER
 - PROPOSED PARKING STRIPE
 - ▨ EXISTING CONCRETE
 - ▩ PROPOSED CONCRETE
 - ▬ CATCHING CURB & GUTTER
 - ▬ REVERSE PAN CURB & GUTTER



LOCATED IN THE SOUTHWEST QUARTER
OF SECTION 3
TOWNSHIP 5 NORTH, RANGE 1 WEST
SALT LAKE BASE AND MERIDIAN
OGDEN CITY, WEBER COUNTY, UTAH

WEBER STATE UNIVERSITY
A-1 PARKING LOT RE-CONSTRUCTION
3848 HARRISON BOULEVARD
OGDEN CITY, UTAH



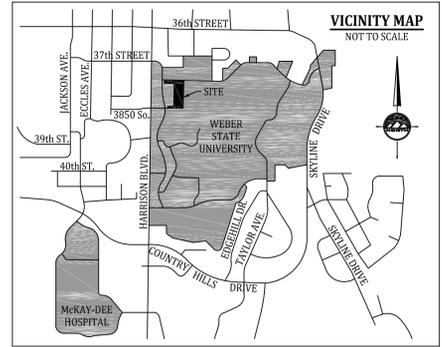
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3	7-2-10	FOR APPROVAL	CP
4	7-15-10	FOR APPROVAL	CP
5			
6			
7			
8			

STRIPING PLAN

PROJECT NUMBER: 11908 DATE: 7/15/10
DRAWN BY: M.ELMER CHECKED BY: C.PRESTON
PROJECT MANAGER: K.RUSSELL

C 8.0

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EDVALSON STREET

TYLER AVE.

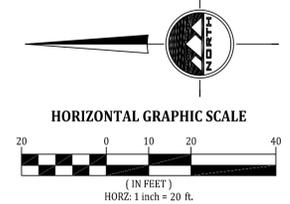
NEW OVERLAY AREA
65,984 sq.ft.

PROPOSED 2" OVERLAY
PER MANUFACTURERS SPECIFICATIONS

PROPOSED 2" OVERLAY
PER MANUFACTURERS SPECIFICATIONS

LEGEND

- EXISTING STREET LIGHT
- EXISTING TREE
- HANDICAP PARKING STALL
- PROPERTY CORNER
- PROPOSED PARKING STRIPE
- EXISTING CONCRETE
- PROPOSED CONCRETE
- CATCHING CURB & GUTTER
- REVERSE PAN CURB & GUTTER
- ASPHALT TO BE GRINDED



LOCATED IN THE SOUTHWEST QUARTER
OF SECTION 3
TOWNSHIP 5 NORTH, RANGE 1 WEST
SALT LAKE BASE AND MERIDIAN
OGDEN CITY, WEBER COUNTY, UTAH

**WEBER STATE UNIVERSITY
A-1 PARKING LOT RE-CONSTRUCTION
3848 HARRISON BOULEVARD
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5			
6			
7			
8			

**PAVING
OVERLAY
PLAN**

PROJECT NUMBER: L1908
DATE: 7/15/10
DRAWN BY: M.ELMER
CHECKED BY: C.PRESTON
PROJECT MANAGER: K.RUSSELL

C-7.0

1. PURPOSE/SCOPE

THIS STORM WATER POLLUTION PREVENTION PLAN HAS BEEN PREPARED FOR THE WEBER STATE UNIVERSITY PARKING LOT RE-CONSTRUCTION IN OGDEN, UTAH. THE PURPOSE OF THE PLAN IS TO PROVIDE THE CONTRACTOR AND OWNER WITH DIRECTION HOW TO PREVENT THE POLLUTION OF THE RECEIVING WATERS DOWNSTREAM FROM THE SITE. THE BEST MANAGEMENT PRACTICES (BMP'S) HEREIN ARE NOT NECESSARILY COMPREHENSIVE OR EXCLUSIVE, AND IT SHALL BE THE RESPONSIBILITY OF THE OWNER AND CONTRACTOR TO EMPLOY WHATEVER MEANS NECESSARY, INCLUDING BUT NOT LIMITED TO THE PROVISIONS OF THIS PLAN, TO PROTECT THE RECEIVING WATERS FROM POLLUTANTS. BMP'S IMPLEMENTED NOT OTHERWISE COVERED IN THIS SWPPP SHALL BE ADDED TO SWPPP BY AMENDMENT.

THIS STORM WATER POLLUTION PREVENTION PLAN HAS BEEN DEVELOPED TO COMPLY WITH STATE AND LOCAL BEST MANAGEMENT PRACTICES AND REGULATORY REQUIREMENTS. THE PLAN, IF PROPERLY IMPLEMENTED, SHOULD RESULT IN DISCHARGE OF WATER TO THE ENVIRONMENT WITHOUT THE VIOLATION OF WATER QUALITY STANDARDS.

THE CONTRACTOR'S AND OWNER'S PERSONNEL WHOSE ACTIVITIES COULD AFFECT THE STORM RUNOFF FROM THE SITE SHALL BE EDUCATED AND TRAINED WITH THE NECESSARY INFORMATION TO ENABLE THEM TO CONDUCT THEIR WORK IN SUCH A MANNER AS TO COMPLY WITH THIS PLAN, AND WITH LOCAL, COUNTY, STATE, AND FEDERAL REGULATIONS REGARDING STORM WATER POLLUTION PREVENTION.

A SIGNED COPY OF THIS PLAN SHALL BE KEPT ON SITE DURING ALL PHASES OF THE SUBDIVISION CONSTRUCTION, OR AT A DESIGNATED PLACE OFF SITE WHEN PERSONNEL ARE NOT ON SITE.

2. OWNER'S CERTIFICATION

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND REFERENCES WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

LUCAS DAVIS DATE
DIVISION FO FACILITIES CONSTRUCTION AND MANAGEMENT

3. SITE CONTACT INFORMATION:

OWNER REPRESENTATIVE: PROJECT CONTRACTOR:
LUCAS DAVIS: NAME, POSITION
STATE OF UTAH: COMPANY
DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT: ADDRESS 1
4110 STATE OFFICE BUILDING: CITY, STATE, ZIP
SALT LAKE CITY, UTAH 84114: (801)###-####

OGDEN CITY PUBLIC WORKS: 133 WEST 29TH STREET
OGDEN, UTAH 84401: (801) 629-8271

ENVIRONMENTAL PROTECTION AGENCY: SALT LAKE CITY, UTAH 84114
(801)538-6951

NATIONAL RESPONSE CENTER HOTLINE: (800) 424-8802

4. REFERENCES

1. SWPPP DOCUMENTS: THE FOLLOWING SHEETS ARE PART OF THE SWPPP AND MUST BE KEPT WITH THIS SHEET ON SITE AS PART OF THE PLAN:
COVER SHEET: VICINITY MAP
SHEET C-4.0 - GRADING AND DRAINAGE PLAN: DRAINAGE PATTERNS, DISCHARGE POINT, PERMANENT EROSION AND SEDIMENT CONTROLS, PERMANENT DETENTION BASIN, STORM DRAIN CALCULATIONS
SHEET C-5.0 - EROSION AND SEDIMENT CONTROL PLAN: LIMITS OF DISTURBANCE, TEMPORARY EROSION AND SEDIMENT CONTROLS, BMP SITE PLAN AND DETAILS
UPDES PERMIT (COPY TO BE KEPT WITH SWPPP ON-SITE)

2. SUPPLEMENTARY INFO: THE FOLLOWING REFERENCES ARE FOR INFORMATION AND ARE NOT PART OF THE SWPPP:
http://www.waterquality.utah.gov/updes/stormwater.htm - STATE REQUIREMENTS FOR UPDES PERMIT

5. REVISIONS AND AMENDMENTS:

5.1 FIRST APPRAISAL: THIS PLAN IS DESIGNED AS A FIRST APPRAISAL OF NECESSARY MEANS TO PROTECT THE WATERS OF THE STATE FROM POTENTIAL POLLUTION. IT IS THE RESPONSIBILITY OF THE OWNER, OPERATOR TO ADD WAIVERED BEST MANAGEMENT PRACTICES (BMP'S) AS NECESSARY, MODIFY THOSE SHOWN AS APPROPRIATE, AND DELETE FROM THE PROJECT THOSE FOUND TO BE UNNECESSARY. FEDERAL AND STATE LAW ALLOWS THESE UPDATES TO BE MADE BY THE OWNER/OPERATOR ON SITE AND RECORDED BY THE OWNER/OPERATOR ON THE COPY OF THE SWPPP KEPT ON SITE.

5.2 WHEN TO AMEND: THIS PLAN SHALL BE AMENDED WHENEVER:
A) THERE IS A CHANGE IN DESIGN, CONSTRUCTION, OPERATION, OR MAINTENANCE THAT HAS A SUBSTANTIAL EFFECT ON THE DISCHARGE OF POLLUTANTS TO THE WATERS OF THE STATE.
B) INSPECTIONS OR INVESTIGATIONS BY OFFICIALS INDICATE THAT THE PLAN IS INEFFECTIVE IN ELIMINATING, MINIMIZING, OR CONTROLLING THE DISCHARGE OF POLLUTANTS ASSOCIATED WITH CONSTRUCTION ACTIVITY.
C) THERE IS A NEW CONTRACTOR OR SUBCONTRACTOR THAT IMPLEMENTS A MEASURE OF THE STORM WATER POLLUTION PREVENTION PLAN.
D) THERE IS A CHANGE IN STATE OR FEDERAL REGULATIONS THAT APPLIES TO THIS SWPPP.
E) BMP'S NOT REFERENCED IN PLAN ARE USED ON SITE.

5.3 TRACKING AMENDMENTS: AMENDMENTS AND REVISIONS TO THIS PLAN SHALL BE NOTED IN THE REVISION BLOCK ON THE TITLE BLOCK ON THE RIGHT SIDE OF EACH SHEET, INCLUDING TYPE OF CHANGES AND DATE OF CHANGES. CHANGES SHALL BE MARKED WITH REVISION CLOUDS ON PLAN SHEETS WITH KEYED REFERENCES TO REVISION NUMBERS. AFTER CHANGES ARE MADE, OWNER, ENGINEER, AND CONTRACTOR SHALL SIGN AMENDED PLAN WHICH IS THEN THE PLAN TO BE KEPT ON SITE. SUPPERSEDED PLAN SHALL BE FILED BY OWNER OR CONTRACTOR WITH INSPECTION REPORTS.

5.4 A NOTICE OF INTENT (N.O.I.): A NOTICE OF INTENT (N.O.I.) SHALL BE FILED WITH THE STATE OF UTAH DEPARTMENT OF ENVIRONMENTAL QUALITY, DIVISION OF WATER QUALITY BEFORE THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES. IN THE EVENT OF A CHANGE IN OWNERSHIP, A NEW NOTICE OF INTENT SHALL BE FILED WITH THE SAME AGENCY. A COPY OF THE UPDES PERMIT SHALL BE PROVIDED TO THE CITY.

5.5 DEVIATIONS FROM PLANS: ANY DEVIATIONS FROM THE PLANS AS SHOWN DURING CONSTRUCTION SHALL BE BROUGHT TO THE ATTENTION OF ENSIGN ENGINEERING FOR EVALUATION AS TO WHETHER THE CHANGES AFFECT THE STORM WATER POLLUTION PREVENTION PLAN.

5.6 PARTIAL TRANSFER OF OWNERSHIP: IF OWNERSHIP OF A PORTION OF THE PROJECT IS TRANSFERRED TO ANOTHER BEFORE FILING OF THE NOTICE OF TERMINATION (N.O.T.), LIABILITY FOR STORM WATER POLLUTION PREVENTION FOR THE PARCEL SHALL BE TRANSFERRED TO THE NEW OWNER BY CONTRACT. THE NEW OWNER SHALL BE RESPONSIBLE TO CONDUCT OPERATIONS IN SUCH A MANNER AS TO NOT INTERFERE WITH THIS PLAN, AND IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS.

6. PROJECT MANAGEMENT

6.1 SIGNED SWPPP AVAILABLE: A SIGNED COPY OF THIS SWPPP SHALL BE MAINTAINED ON SITE AT ALL TIMES, OR SHALL BE AVAILABLE OFF SITE AT A LOCATION POSTED ON SITE, WHEN PERSONNEL ARE NOT PRESENT ON SITE. A NOTICE MUST BE POSTED CONSPICUOUSLY AT THE PROJECT ENTRANCE SHOWING:

- 1) A COPY OF THE NOTICE OF INTENT (N.O.I.)
- 2) CURRENT LOCATION OF THE SIGNED SWPPP
- 3) CURRENT CONTACT PERSON AND TELEPHONE NUMBER FOR SCHEDULING TIMES TO REVIEW THE SWPPP.

6.2 PHASING OF CONSTRUCTION: THE PROJECT HAS BEEN PLANNED AT THIS POINT IN A SINGLE PHASE WHICH WILL RESULT IN THE REPLACEMENT OF ISOLATED DAMAGED ASPHALT AREAS AND THE INSTALLATION OF CURB AND GUTTER ALONG THE BORDERS OF THE EXISTING PARKING LOT. FROM THE BEGINNING OF CONSTRUCTION UNTIL THE COMPLETION OF THE PROJECT, THE STORM WATER TREATMENT SYSTEM WILL REMAIN OPERATIONAL TO PURIFY STORM WATER IMPACTED BY CONSTRUCTION ACTIVITIES.

6.3 TRAINING: CONTRACTOR WILL PROVIDE ON-SITE TRAINING TO KEY PERSONNEL RESPONSIBLE FOR COMPLIANCE WITH THE SWPPP. THE CONTRACTOR'S SUPERINTENDENT AND PROJECT MANAGER WILL BE FAMILIARIZED WITH THE MAJOR ELEMENTS OF THE PLAN. CONSTRUCTION WORKERS AND OTHERS AT THE SITE WILL BE GIVEN APPROPRIATE TRAINING INFORMATION AT THE CONCLUSION OF SITE SAFETY MEETINGS OR ON AN AS-NEEDED BASIS. THE OWNER SHALL APPPOINT AN EROSION AND SEDIMENT CONTROL LEAD AT THE PRECONSTRUCTION CONFERENCE WHO WILL TAKE AN ACTIVE ROLE IN APPLYING THE PROVISIONS OF THIS PLAN ON SITE.

6.4 PRECONSTRUCTION CONFERENCE: ONE OR MORE PRECONSTRUCTION MEETINGS WILL BE HELD WITH AN EXPLICIT AGENDA ITEM ADDRESSING THE SWPPP.

6.5 COORDINATION WITH UTILITIES AND OTHER CONTRACTORS: ALL CONTRACTORS PROVIDING SERVICES ON THE PROJECT WHICH MAY CAUSE STORM WATER POLLUTION WILL BE GIVEN A COPY OF THE SWPPP AND APPROPRIATE TRAINING REGARDING STORM WATER POLLUTION PREVENTION.

6.6 SUBCONTRACTOR OVERSIGHT: SUBCONTRACTOR OVERSIGHT TO ENSURE COMPLIANCE WITH THE SWPPP WILL BE PROVIDED BY THE PRIME CONTRACTOR'S SUPERINTENDENT OR PROJECT MANAGER. INFORMAL, ON-THE-JOB TAILGATE TRAINING WILL BE THE FIRST LEVEL OF COMMUNICATION FOLLOWED BY ON-SITE OBSERVATION OF TRAINING COMPLIANCE. NON-COMPLIANCE WITH SWPPP POLICIES WILL TRIGGER A MORE INTENSIVE TRAINING SESSION TO CORRECT THE PROBLEM(S). CHRONIC NON-COMPLIANCE WITH SWPPP POLICIES MAY REQUIRE THE INTERVENTION OF LOCAL AND/OR STATE REGULATORY PERSONNEL.

7. CONTRACTOR'S CERTIFICATION

THE GENERAL CONTRACTOR AND ANY SUBCONTRACTORS WHOSE WORK MAY AFFECT THE STORM WATER DISCHARGE AND/OR BMP'S IN THIS PLAN ARE REQUIRED TO CERTIFY THE FOLLOWING:

WE, THE UNDERSIGNED, HEREBY CERTIFY UNDER PENALTY OF LAW THAT WE UNDERSTAND AND WILL COMPLY WITH THE STORM WATER POLLUTION PREVENTION PLAN AND WITH LOCAL, STATE, AND FEDERAL REQUIREMENTS FOR THE PROTECTION OF STORM WATER DISCHARGE. WE UNDERSTAND THE TERMS AND CONDITIONS OF THE GENERAL NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (UPDES) PERMIT THAT AUTHORIZES THE STORM WATER DISCHARGE ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE CONSTRUCTION SITE AS PART OF THIS CERTIFICATION.

SIGNATURE: _____ DATE _____ COMPANY: _____ RESPONSIBLE FOR: _____

8. CONSTRUCTION ENVIRONMENTAL SUMMARY

8.1 DESCRIPTION OF PROJECT: THE PURPOSE OF THIS PROJECT IS TO CONSTRUCT CURB AND GUTTER AROUND THE PERIMETER OF THE EXISTING PARKING LOT AND ALONG THE SOUTHERN BORDERS OF EDVALSON STREET. ISOLATED AREAS OF DAMAGED ASPHALT IN THE PARKING LOT WILL BE REMOVED AND REPLACED PRIOR TO A 2" ASPHALT OVERLAY OVER THE ENTIRE EXISTING PARKING LOT.

8.2 NATURE OF WORK: CONSTRUCTION OF THE PARKING LOT MODIFICATION WILL INCLUDE THE FOLLOWING EARLY-DISTURBING ACTIVITIES: SAWCUTTING AND REMOVAL OF THE EXISTING ASPHALT SURFACE AND BASE MATERIAL IN THE EXISTING PARKING LOT AND ON THE SOUTH SIDE OF EDVALSON STREET & TRENCHING AND INSTALLATION OF A STORM DRAIN SYSTEM TO COLLECT ON-SITE STORMWATER.

8.3 SITE INFORMATION:
PROPOSED CONSTRUCTION: EXISTING PARKING LOT RENOVATION
TOTAL PROJECT AREA: 1,910 ACRES
TOTAL DISTURBED AREA: 1,910 ACRES
TOTAL VOLUME OF CUT/FILL: 187,055 CU-YD
TOTAL PROPOSED IMPERVIOUS AREA BEFORE/AFTER CONSTRUCTION: 1,802/1,802 ACRES
WEIGHTED RUNOFF COEFFICIENT BEFORE/AFTER CONSTRUCTION: 0.857/0.857

8.4 EXISTING SITE TOPOGRAPHY: SITE GENTLY SLOPES FROM THE SOUTHEAST CORNER OF THE PARKING LOT TOWARD NORTHWEST TO EDVALSON STREET TO THE NORTH OF THE EXISTING PARKING LOT.

8.5 EXISTING VEGETATION TYPE AND CONDITION: EXISTING ASPHALT PARKING LOT WITH ASPHALT WALKWAYS.

8.6 EXISTING SOIL CHARACTERISTICS: 2-3 INCHES OF ASPHALT OVERTOP AN EXISTING BASE COURSE.

8.7 EXISTING WATER QUALITY: THE EXISTING GROUND WATER QUALITY IS ASSUMED TO BE TYPICAL OF THAT WHICH IS SAFE FOR DRINKING. THE EXISTING STORM RUNOFF WATER QUALITY IS ASSUMED TO BE TYPICAL OF SUBURBAN RESIDENTIAL DEVELOPMENTS.

8.8 RECEIVING WATERS FOR EXISTING AND PROPOSED RUNOFF: EXISTING STORM DRAIN SYSTEM IN EVALSON STREET AND ON-SITE THAT DRAINS INTO THE OGDEN CITY STORM DRAIN SYSTEM. THE STORM DRAIN SYSTEM IS EVENTUALLY DISCHARGED INTO THE WEBER RIVER, A TRIBUTARY TO THE GREAT SALT LAKE AT THE OGDEN BAY WATERWAY MANAGEMENT AREA.

8.9 CRITICAL AREAS ON OR NEAR SITE: RUNOFF TO THE EXISTING STORM DRAIN SYSTEM IN EDVALSON STREET AND THE EXISTING STORM DRAIN SYSTEM THAT PASSES THROUGH THE SITE.

8.10 POTENTIAL EROSION PROBLEMS EXISTING OR ANTICIPATED: THE REMOVAL OF THE ASPHALT SURFACE ON THE NORTH ENTRANCE TO THE SITE COULD POSE AN SIGNIFICANT AMOUNT OF SEDIMENT TO ENTER THE STORM DRAIN SYSTEM TO THE WEST OF THE ENTRANCE IN EDVALSON STREET. CARE SHOULD MADE TO ENSURE TRUCKS ENTER/EXIT THE SITE THROUGH THE SOUTH ENTRANCE AND LIMIT THE TRUCKS FROM LEAVING THE EXISTING ASPHALT SURFACE.

8.11 POTENTIAL POLLUTION SOURCES: EXPOSED SOILS THAT COULD BECOME WATERBORNE OR AIRBORNE, VEHICLES COULD TRACK MATERIAL OFFSITE. CONCRETE WASHOUT COULD ENTER STORM DRAIN SYSTEM, CHEMICALS AND MATERIALS STORED OR USED ON-SITE COULD BE SPILLED, SANITARY WASTE COULD BE IMPROPERLY DISPOSED OF.

8.12 CONSTRUCTION SEQUENCING/MAJOR SOIL DISTURBING ACTIVITIES: SEE SWPPP IMPLEMENTATION SEQUENCE BELOW AND EROSION AND SEDIMENT CONTROL PLAN, SHEET C-5.0. THE MEASURES SHOWN BELOW AND ON SHEET C-5.0, EROSION AND SEDIMENT CONTROL PLAN, ARE NOT EXCLUSIVE, AND CANNOT ALL BE APPLIED SIMULTANEOUSLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO EMPLOY THE CORRECT BEST MANAGEMENT PRACTICES FOR EACH CONSTRUCTION STAGE, AND TO MAINTAIN THE BMP'S FOR AS LONG AS THEY ARE APPROPRIATE.

8.13 ENGINEERING CALCULATIONS: SEE GRADING AND DRAINAGE PLAN, SHEET C-4.0, FOR CALCULATIONS OF STORM WATER FLOW.

9. CLEARING LIMITS

9.1 MINIMIZE SITE CLEARING: SEE EROSION AND SEDIMENT CONTROL PLAN, SHEET C-5.0, FOR ANTICIPATED CLEARING LIMITS. WHEREVER POSSIBLE, LIMIT CLEARING ONLY TO AREAS OF ACTIVE WORK, PER SWPPP SEQUENCING DIAGRAM BELOW.

9.2 MARK CLEARING LIMITS: PRIOR TO BEGINNING EARLY-DISTURBING ACTIVITIES, INCLUDING CLEARING AND GRADING, ALL CLEARING LIMITS, EASEMENTS, SETBACKS, SENSITIVE AREAS AND THEIR BUFFERS, TREES AND DRAINAGE COURSES WILL BE CLEARLY MARKED TO PREVENT ENVIRONMENTAL DAMAGE BOTH ON AND OFF SITE. CONTRACTOR SHALL ERECT FENCES AS NECESSARY TO ENFORCE THE MARKED CLEARING LIMITS.

9.3 BUFFER ZONES: THE REMOVAL OF THE ASPHALT SURFACE ON THE NORTH ENTRANCE TO THE SITE COULD POSE A SIGNIFICANT AMOUNT OF SEDIMENT TO ENTER THE STORM DRAIN SYSTEM TO THE WEST OF THE ENTRANCE IN EDVALSON STREET. CARE SHOULD MADE TO ENSURE TRUCKS ENTER/EXIT THE SITE THROUGH THE SOUTH ENTRANCE AND LIMIT THE TRUCKS FROM LEAVING THE EXISTING ASPHALT SURFACE.

9.4 PRESERVATION OF TREES: EXISTING TREES SHALL BE PRESERVED WHEREVER DESIRABLE FOR FINISH PARKING AREA.

10. CONSTRUCTION ACCESS

10.1 STABILIZED CONSTRUCTION ENTRANCE: SEE EROSION AND SEDIMENT CONTROL PLAN, SHEET C-5.0 FOR ANTICIPATED CONSTRUCTION ENTRANCE LOCATION. CONTRACTOR SHALL FILED AND RECORD LOCATION ON DRAWINGS. ALL CONSTRUCTION VEHICLES EXITING THE SITE WILL BE LIMITED TO THIS ACCESS. THE ACCESS WILL BE STABILIZED WITH QUARRY SPALLS, CRUSHED ROCK, OR ASPHALT TO PREVENT TRACKING SEDIMENT ONTO PAVED AREAS.

10.2 STREET CLEANING: IF SEDIMENT IS TRANSPORTED ON TO THE STREET IT WILL BE REMOVED FROM THE STREET SURFACE ON A DAILY BASIS. SEDIMENT WILL BE SHOVELLED AND/OR SWEEP FROM THE STREET AND DISPOSED OF IN A MANNER, WHICH PREVENTS CONTAMINATION WITH STORM WATER OR SURFACE WATER (E.G., COVERED, SOIL STOCKPILE). IN ADDITION, A STREET SWEEPER MAY BE USED TO MAINTAIN CLEAN ROADS ON AN AS-NEEDED BASIS. FOR OFFSITE TRENCH WORK, ALL FEASIBLE CARE SHALL BE MADE TO CONTAIN EXCAVATED MATERIAL AND BACKFILL MATERIAL, AND THE ADJACENT STREET SHALL BE SWEEP DURING WORK DAYS, AND AT OTHER TIMES AS NEEDED, TO KEEP THE TRAVELED WAY AND ADJACENT PROPERTIES AND/OR DRAINAGES CLEAN FROM MUD, DUST, SILT, AND DEBRIS.

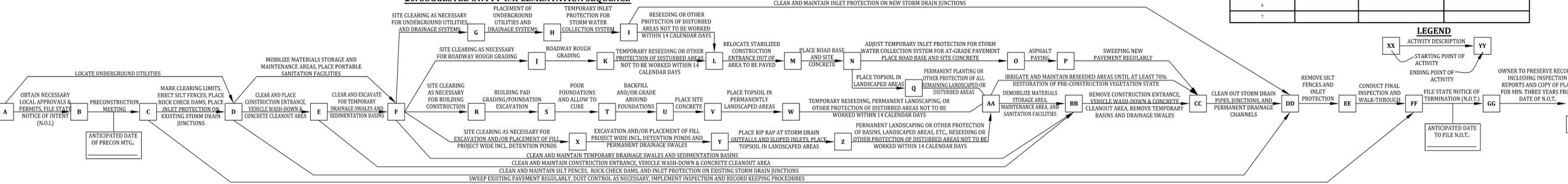
10.3 VEHICLE WASH-DOWN: A TEMPORARY TRUCK WHEEL WASH STATION SHALL BE CONSTRUCTED TO ENSURE CONTROL OF SEDIMENT AT THE CONSTRUCTION EXIT POINT. THE WASH SYSTEM WILL BE CONSTRUCTED ON THE SITE AT A LOCATION JUST PRIOR TO WHERE TRUCKS LEAVE THE SITE. ACCESS AND ENTER THE STREET. THE SYSTEM WILL CONSIST OF A COBBLE PAD LINED BELOW WITH FILTER FABRIC, AND AN ADJACENT DRAINAGE SWALE AND SEDIMENTATION BASIN TO COLLECT WASH WATER FOR SETTLEMENT OF DEBRIS. WASH WATER MAY BE REUSED AFTER SETTLING, INFILTRATED ON-SITE, OR TRANSPORTED OFF-SITE FOR DISPOSAL. ACCUMULATED SEDIMENTS MAY BE REUSED ON-SITE OR DISPOSED OF OFF-SITE. WHEEL WASH STATION MAY BE COMBINED WITH THE STABILIZED CONSTRUCTION ENTRANCE, PROVIDED THAT THE OWNER/OPERATOR ENSURES THAT IT EFFECTIVELY SERVES BOTH PURPOSES.

11. STORM WATER DETENTION/RETENTION

11.1 TEMPORARY MEASURES: DRAINAGE SWALES, SILT FENCES, AND TEMPORARY CULVERTS WILL CHANNEL ALL RUNOFF CONTAMINATED WITH SEDIMENT OR OTHERWISE AFFECTED BY CONSTRUCTION ACTIVITIES INTO TEMPORARY SEDIMENTATION BASINS. TEMPORARY BASINS ARE SIZED TO COMPLETELY RETAIN A 2-YEAR 24-HOUR STORM BASED ON THE TRIBUTARY AREA. ALL PERIODS, STORM EVENTS OF HIGHER INTENSITY AND/OR LONGER DURATION WILL NOT BE COMPLETELY RETAINED, BUT THE SEDIMENTATION BASINS WILL PROVIDE AN OPPORTUNITY FOR SEDIMENTATION BEFORE THE WATER LEAVES THE SITE. ALL DITCHES AND OTHER WATER CONVEYANCES DRAINING ACTIVE CONSTRUCTION AREAS TO THE SEDIMENTATION BASINS WILL BE STABILIZED WITH ROCK MATTING, OR OTHER STABILIZING METHOD WITH CHECK DAMS OR SEDIMENT TRAPS PLACED AS NEEDED TO REDUCE WATER VELOCITIES AND SETTLE OUT AS MUCH SEDIMENT AS POSSIBLE PRIOR TO ENTERING THE TEMPORARY SEDIMENTATION PONDS. SEDIMENT MUST BE REMOVED FROM SEDIMENTATION PONDS AND SEDIMENT TRAPS WHEN DESIGN CAPACITY HAS BEEN REDUCED BY 50%.

11.2 RUN-ON BYPASS: CLEAN STORM WATER RUN-ON DRAINING FROM THE UP GRADIENT, UNDISTURBED EASTERN PORTION OF THE SITE WILL BE COLLECTED PRIOR TO ENTERING THE CONSTRUCTION AREAS AND DIVERTED TO THE SOUTHERN STREAM VIA ENCLOSED PIPE. THIS WATER WILL BE ROUTINELY MONITORED TO ENSURE ONLY CLEAN WATER IS DISCHARGED TO THE STREAM. IF THE WATER BECOMES CONTAMINATED, IT WILL BE ROUTED TO THE DETENTION SYSTEM FOR TREATMENT.

20. SUGGESTED SWPPP IMPLEMENTATION SEQUENCE



12. SEDIMENT CONTROLS

12.1 BEST CONTROL: SOILS, GRAVELS, ETC., WHETHER STOCKPILED OR PLACED, SHALL BE KEPT COVERED AND/OR ADEQUATELY MOIST TO PREVENT AIRBORNE DUST FROM LEAVING THE SITE.

12.2 RUNOFF INTERCEPTION: BEFORE BEING DISCHARGED FROM THE CONSTRUCTION SITE, SEDIMENT-CONTAMINATED STORM WATER WILL BE PREVENTED FROM ENTERING THE TREATMENT SYSTEM INCLUDING SEDIMENT TRAPS AND/OR SEDIMENTATION BASINS. CLEAN WATER BYPASSING THE SITE WILL BE ROUTED DIRECTLY TO THE RECEIVING SYSTEM.

12.3 SEQUENCING: SEDIMENT PONDS AND TRAPS, VEGETATED BUFFER STRIPS, SEDIMENT BARRIERS OR FILTERS, DIKES, AND OTHER BMP'S INTENDED TO TRAP SEDIMENT ON SITE WILL BE INSTALLED BEFORE OTHER LAND-DISTURBING ACTIVITIES TAKE PLACE (SEE SWPPP SEQUENCING DIAGRAM BELOW). SILT FENCES AND TEMPORARY DRAINAGE SWALES SHALL BE PLACED PER SHEET C-5.0, EROSION AND SEDIMENT CONTROL PLAN, AND ELSEWHERE AS APPROPRIATE. THESE BMP'S SHALL BE MAINTAINED UNTIL STABILIZATION OF DISTURBED AREAS IS COMPLETE.

12.4 OTHER POSSIBLY HELPFUL BMP'S: DIVERSION DIKE, STRAW BALE BARRIER, BRUSH BARRIER, SILT FENCE, VEGETATIVE STRIP, ROCK CHECK DAM.

13. SOIL STABILIZATION

13.1 TOPSOIL CONSERVATION: EXISTING TOPSOIL SHALL BE HARVESTED WHEN AN AREA IS TO BE DISTURBED, AND STOCKPILED ON SITE. TOPSOIL SHALL THEN BE SPREAD WHEN FINISH GRADE IS ACHIEVED IN ORDER TO ENCOURAGE REVEGETATION. AS AN ALTERNATIVE TO STOCKPILED TOPSOIL, NEW TOPSOIL MAY BE IMPORTED POST CONSTRUCTION, PROVIDED ALL UNPAVED AREAS NOT OTHERWISE LANDSCAPED ARE TREATED FOR REVEGETATION.

13.2 MULCHING AND EROSION CONTROL MATS: ONCE DISTURBED LAND HAS BEEN WORKED TO FINISH GRADE, OR IS TO BE LEFT UNWORKED FOR MORE THAN 14 CALENDAR DAYS, THE LAND SHALL BE STABILIZED BY ONE OF THE FOLLOWING METHODS, TO BE DETERMINED AT A MINIMUM BY THE GRADE CONSTRAINTS LISTED. THE OWNER/OPERATOR MAY TO APPLY A MORE STRINGENT PROTECTION THAN REQUIRED BY THE GRADE, AS APPROPRIATE TO THE NEEDS OF THE SITE:
1) GRADE LESS THAN 10%: TRACKING - LINES OF TRACS PERPENDICULAR TO FLOW DIRECTION
2) GRADE BETWEEN 10% AND 3:1 (33%): TRACKING AND MULCHING - STRAW, HYDROSEED, OR OTHER
3) GRADE STEEPER THAN 3:1 (33%): EROSION CONTROL MATS

FOR LOCATIONS WHERE SOIL AND/OR SLOPE CONDITIONS WILL MAKE IT DIFFICULT FOR VEGETATION TO REESTABLISH WITHIN SIX MONTHS, A BONDED FIBER MATRIX SHALL BE EMPLOYED TO SEED AND STABILIZE DISTURBED LAND.

13.3 PERMANENT NATIVE SEEDING: PLANT AREAS ADJACENT TO THE NEWLY CONSTRUCTED CURB AND GUTTER ALONG THE EDGES OF THE PARKING LOT AND ALONG EDVALSON STREET WITH NATIVE GRASS MIXTURE UPON COMPLETION OF GRADING ACTIVITIES AND PROVIDE TEMPORARY IRRIGATION TILL ESTABLISHED.

13.4 PERMANENT LANDSCAPING: LANDSCAPING SHALL BE IRRIGATED AND MAINTAINED BY CONTRACTOR UNTIL THE N.O.I. IS ACCEPTED AND OWNERSHIP IS TRANSFERRED TO THE PROPERTY OWNERS.

13.5 MAINTENANCE OF EXISTING VEGETATION: EXISTING AND NEW VEGETATION WILL BE MAINTAINED TO THE MAXIMUM EXTENT PRACTICABLE TO PREVENT THE CONTAMINATION OF STORM WATER WITH SEDIMENT. VEGETATED AREAS BEGINNING TO SHOW SIGNS OF EROSION OR SOIL TRANSPORT SHALL BE REPAIRED AND STABILIZED PER SECTION 13.2 - MULCHING AND EROSION CONTROL MATS.

13.7 SOIL COVERING: ALL SLOPES AS WELL AS DRAINAGE DITCHES, SWALES, AND EXPOSED FLAT SURFACES AS DEEMED NECESSARY BY THE EROSION AND SEDIMENT CONTROL LEAD SHALL BE COVERED PRIOR TO THE ONSET OF THE RAINY SEASON OR ANY ANTICIPATED STORM EVENT. THE PRIMARY STABILIZATION METHOD USED WILL BE COVERING SOILS WITH AN APPROVED MATTING AND/OR HYDROSEEDING. AREAS OF THE PROJECT, WHICH HAVE NOT BEEN PROPERLY STABILIZED BY VEGETATION BY THE ONSET OF THE WET SEASON, WILL BE COVERED WITH TRANSPARENT PLASTIC SHEETING BEFORE ANY ANTICIPATED STORM EVENT TO PREVENT SEDIMENT TRANSPORT. PLASTIC SHEETING WILL ALSO BE USED AS AN EMERGENCY BMP TO COVER PREVIOUSLY STABILIZED AREAS, WHICH BEGIN TO ERODE. LOOSE STRAW AND MULCH COVERS ARE NOT TO BE USED AS THEY MAY BE WASHED INTO DRAINAGE STRUCTURES.

13.8 STOCKPILE COVERING: ALL TEMPORARY SOIL STOCKPILES WILL BE BERMED AROUND OR COVERED WITH PLASTIC PRIOR TO ANTICIPATED RAINFALL EVENTS. LONG-TERM STOCKPILES WILL BE COMPACTED AND HYDROSEED PRIOR TO THE ONSET OF WET WEATHER.

13.9 TEMPORARY SLOPE DRAINS: CONCENTRATED FLOWS AT TOPS OF SLOPES SHALL BE CONVEYED TO THE BOTTOM OF THE SLOPE VIA TEMPORARY SLOPE DRAINS, COMPRISED OF BERMED INLETS, FLEXIBLE PIPING, AND STABILIZED OUTLETS. IN SOME CASES UNSTABLE SLOPES WILL BE TEMPORARILY COVERED WITH PLASTIC TO PREVENT EROSION AND TO PROTECT WATER QUALITY. WHEN SOIL IS DISTURBED DOWNSTREAM OF THE SLOPE, THE SLOPE DRAINAGE MUST BE CONVEYED AROUND THE DISTURBED SOIL TO PREVENT EROSION BY PIPING DIRECTLY TO THE NEAREST DRAIN OR STABILIZED AREA.

13.10 OTHER POSSIBLY HELPFUL BMP'S: BENCHING, CHANNEL STABILIZATION, CULVERTS

14. SLOPE PROTECTION

14.1 GENERAL PRACTICES: CUT AND FILL SLOPES ON THIS PROJECT HAVE BEEN DESIGNED AND WILL BE CONSTRUCTED SO AS TO MINIMIZE EROSION. SOIL TYPES HAVE BEEN ANALYZED AND CONSIDERED FOR THEIR POTENTIAL TO ERODE. SLOPE RUNOFF VELOCITIES SHALL BE REDUCED BY TERRACING, CREATING DIVERSIONS, AND SURFACE CONTOURING. UNCONTAMINATED RUN-ON WATER FROM OFF-SITE WILL BE INTERCEPTED AT THE TOP OF THE SLOPE AND DIVERTED AROUND THE ACTIVE CONSTRUCTION AREA. DOWN SLOPE FLOWS WILL BE CONTAINED IN PIPES, SLOPE DRAINS, AND/OR STABILIZED CHANNELS.

14.2 SUGGESTED BMP'S: SURFACE ROUGHENING, GRADIENT TERRACES, INTERCEPTOR DIKE AND SWALE, GRASS-LINED CHANNELS, PIPE SLOPE DRAIN, SUBSURFACE DRAINS, LEVEL SPREADER, CHECK DAMS.

15. DRAIN INLET PROTECTION

15.1 EXISTING STORM DRAINS: EXISTING STORM DRAIN INLETS WILL BE PROTECTED TO PREVENT STORM WATER FROM ENTERING WITHOUT FIRST BEING FILTERED AND TREATED TO REMOVE SEDIMENT. INLET PROTECTION MEASURES SHOWN ON EROSION AND SEDIMENT CONTROL PLAN ARE NOT NECESSARILY PRECISE AND COMPREHENSIVE, AND ARE INTENDED TO GUIDE THE CONTRACTOR HOW TO PROTECT INLETS.

15.2 NEWLY CONSTRUCTED STORM DRAINS: ALL STORM DRAIN INLETS MADE OPERABLE DURING CONSTRUCTION WILL BE PROTECTED TO PREVENT STORM WATER FROM ENTERING WITHOUT FIRST BEING FILTERED OR TREATED TO REMOVE SEDIMENT. INLET PROTECTION WILL NEED TO BE MODIFIED THROUGHOUT THE COURSE OF CONSTRUCTION AS CONDITIONS AROUND THE INLET CHANGE, I.E. METHOD OF PROTECTION SHALL BE APPROPRIATE TO WHETHER OR NOT ADJACENT PAVEMENT IS IN PLACE. SEE DETAILS FOR SPECIFIC INSTRUCTION.

16. STORM WATER OUTLET PROTECTION

16.1 FILTER STRIP: TEMPORARY SEDIMENTATION POND OVERFLOWS SHALL DISCHARGE ACROSS EROSION CONTROL MAT OR RIP RAP, AND PERMANENT DETENTION BASINS SHALL DISCHARGE ACROSS RIP RAP, ALLOWING SEDIMENT AND OTHER CONTAMINANTS TO BE INTERCEPTED BEFORE REACHING RECEIVING WATERS, AND TO PROTECT DISCHARGE FROM EROSION.

16.2 OUTLET PROTECTION: ADEQUATE ENERGY DISSIPATION, EROSION CONTROL, AND SOIL STABILIZATION MEASURES (E.G., ROCK OR OTHER ENERGY DISSIPATION TECHNIQUES) WILL BE PROVIDED FOR ALL POINT SOURCE DISCHARGES OF STORM WATER, INCLUDING RUN-ON DISCHARGES AND OUTLETS FROM ON-SITE DISCHARGES.

17. SPILL PREVENTION AND RESPONSE

17.1 NON-SEDIMENT POLLUTANTS: NON-SEDIMENT POLLUTANTS THAT MAY BE PRESENT DURING CONSTRUCTION ACTIVITIES INCLUDE: PETROLEUM PRODUCTS INCLUDING FUEL, LUBRICANTS, HYDRAULIC FLUIDS, AND FORM OILS
POLYMER USED FOR SOIL STABILIZATION
WATER TREATMENT CHEMICALS (COAGULANT, ACID, SODIUM BICARBONATE)
CONCRETE
PAINTS
FERTILIZERS
TRASH & LITTER
SANITARY WASTE

THESE MATERIALS AND OTHER MATERIALS USED DURING CONSTRUCTION WITH THE POTENTIAL TO IMPACT STORM WATER, WILL BE STORED, MANAGED, USED, AND DISPOSED OF IN A MANNER THAT MINIMIZES THE POTENTIAL FOR RELEASES TO THE ENVIRONMENT AND ESPECIALLY INTO STORM WATER.

17.2 GENERAL MATERIALS HANDLING PRACTICES: HAZARDOUS MATERIALS SHALL BE HANDLED IN ACCORDANCE WITH ALL APPLICABLE LAWS. HAZARDOUS MATERIALS SHALL BE KEPT OFFSITE, OR SHALL BE KEPT IN AN IMPERVIOUS CONTAINED AREA AND COVERED AS APPROPRIATE SO THAT SPILLS WILL NOT RUN OFF OR SEEP INTO THE GROUND. POTENTIAL POLLUTANTS WILL BE STORED AND USED IN A MANNER CONSISTENT WITH THE MANUFACTURER'S INSTRUCTIONS IN A SECURE LOCATION, TO THE EXTENT PRACTICABLE. MATERIAL STORAGE AREAS SHOULD NOT BE LOCATED NEAR STORM DRAIN INLETS AND SHOULD BE EQUIPPED WITH COVERS, ROOF, OR SECONDARY CONTAINMENT AS NEEDED TO PREVENT STORM WATER FROM CONTACTING STORED MATERIALS. CHEMICALS THAT ARE NOT COMPATIBLE (SUCH AS SODIUM BICARBONATE AND HYDROCHLORIC ACID) SHALL BE STORED IN SEGREGATED AREAS SO THAT SPILLED MATERIALS CANNOT COMBINE AND REACT. MATERIALS DISPOSAL WILL BE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS. MATERIALS NO LONGER REQUIRED FOR CONSTRUCTION WILL BE REMOVED FROM THE SITE AS SOON AS PRACTICABLE.

17.3 VEHICLES AND EQUIPMENT: FIX LEAKS OF FUEL, OIL, ETC. IMMEDIATELY. PERFORM REFUELING AND SERVICING OFF SITE WHENEVER POSSIBLE. FOR ON-SITE SERVICE OR REFUELING, PROVIDE AN IMPERVIOUS CONTAINED AREA SUCH THAT SPILLS WILL NOT RUN OFF TO THE STORM DRAINAGE SYSTEM OR SEEP INTO THE GROUND. CONDUCT MAINTENANCE UNDER COVER DURING WET WEATHER IF POSSIBLE. MATERIALS SPILLED DURING MAINTENANCE OPERATIONS WILL BE CLEANED UP IMMEDIATELY AND PROPERLY DISPOSED OF.

17.4 PH-MODIFYING SOURCES: PH-MODIFYING SOURCES WILL BE MANAGED TO PREVENT CONTAMINATION OF RUNOFF AND STORM WATER COLLECTED ON THE SITE. THE MOST COMMON SOURCES OF PH-MODIFYING MATERIALS ARE BULK CEMENT, CEMENT KILN DUST (CKD), FLY ASH, NEW CONCRETE WASHING AND CURE WATERS, WASTE STREAMS GENERATED FROM CONCRETE GRINDING AND SAWING, EXPOSED AGGREGATE PROCESSES, AND CONCRETE PUMPING AND MIXER WASHOUT WATERS.

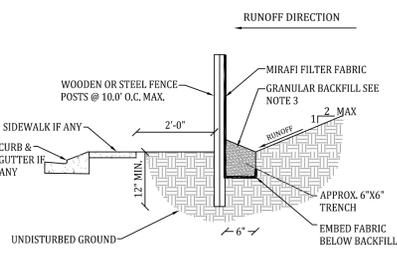
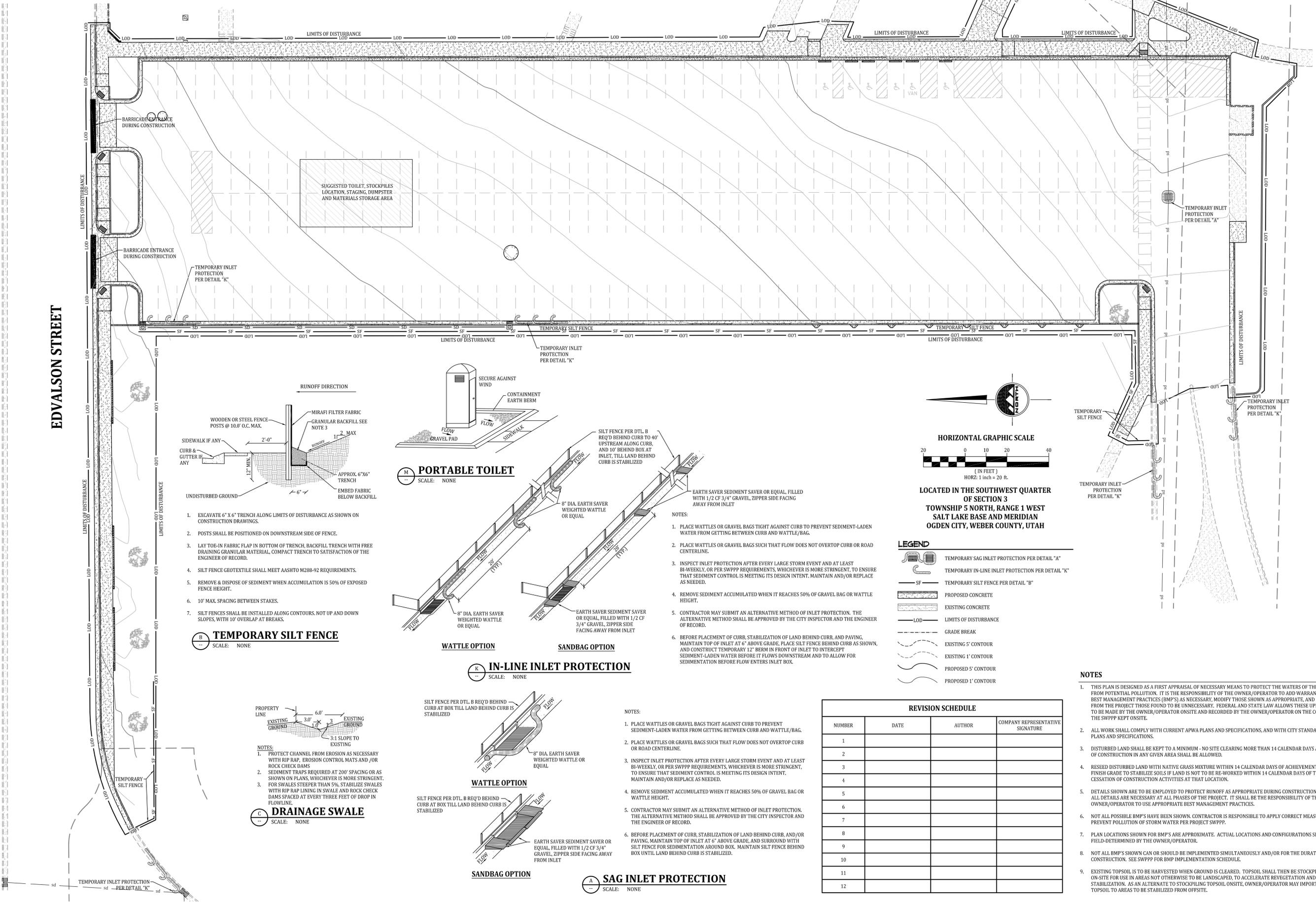
17.5 SPILL KITS AND TRAINING: SPILL KITS CONTAINING MATERIALS AND EQUIPMENT FOR SPILL RESPONSE AND CLEANUP WILL BE MAINTAINED AT THE SITE. SUGGESTED SPILL KIT MAY CONTAIN: OIL ABSORBENT PADS (ONE BALE), OIL ABSORBENT ROOMS (40 FEET), 55 GALLON DRUMS (2), 9 MIL PLASTIC BAGS (10), PERSONAL PROTECTIVE EQUIPMENT INCLUDING GLOVES AND GOGGLES. FACILITY PERSONNEL WITH PRIMARY RESPONSIBILITY FOR SPILL RESPONSE AND CLEANUP WILL RECEIVE TRAINING FROM THE SITE SUPERINTENDENT. THIS TRAINING WILL INCLUDE IDENTIFYING THE LOCATION OF SPILL KITS AND OTHER SPILL RESPONSE EQUIPMENT AND THE USE OF SPILL RESPONSE MATERIALS. SPILL RESPONSE EQUIPMENT WILL BE INSPECTED AND MAINTAINED AS NECESSARY TO REPLACE ANY MATERIALS USED IN SPILL RESPONSE ACTIVITIES.

17.6 HAZARDOUS MATERIAL SPILLS: IN THE EVENT OF A SPILL, WORK SHALL BE STOPPED AND BEST EFFORTS MADE TO CONTAIN THE SPILL. THE SITE SUPERINTENDENT SHALL BE NOTIFIED IMMEDIATELY, AND WILL ASSESS THE SITUATION AND DETERMINE THE APPROPRIATE RESPONSE. IF AN OIL SHEEN IS OBSERVED ON SURFACE WATER (E.G., SETTLING POND, SWALES), ABSORBENT PADS AND/OR BOOMS WILL BE APPLIED TO CONTAIN AND REMOVE THE OIL. THE SOURCE OF THE OIL SHEEN WILL ALSO BE IDENTIFIED AND REMOVED OR REPAIRED AS NECESSARY TO PREVENT FURTHER RELEASES.

17.7 SPILL NOTIFICATIONS: THE SITE SUPERINTENDENT, OR HIS DESIGNEE, WILL BE RESPONSIBLE FOR COMPLETING THE SPILL REPORTING FORM AND FOR REPORTING THE SPILL TO THE APPROPRIATE STATE OR LOCAL AGENCY. ANY SPILL OF OIL WHICH 1) VIOLATES WATER QUALITY STANDARDS, 2) PRODUCES A SHEEN ON A SURFACE WATER, OR 3) CAUSES A SLUDGE OR EMULSION MUST BE REPORTED IMMEDIATELY BY TELEPHONE TO THE NATIONAL RESPONSE CENTER HOTLINE AT (800) 424-8802. ANY OIL, HAZARDOUS SUBSTANCE, OR HAZARDOUS WASTE RELEASE WHICH EXCEEDS THE REPORTABLE QUANTITY MUST BE REPORTED IMMEDIATELY BY TELEPHONE TO THE NATIONAL RESPONSE CENTER HOTLINE AT (800) 424-8802. ANY SPILL OF OIL OR HAZARDOUS SUBSTANCE TO WATERS OF THE STATE MUST BE REPORTED IMMEDIATELY BY TELEPHONE TO THE UTAH DIVISION OF ENVIRONMENTAL QUALITY SPILL HOTLINE AT (801) 536-4123. ANY RELEASE OF A HAZARDOUS SUBSTANCE THAT MAY BE A THREAT TO HUMAN HEALTH OR THE ENVIRONMENT MUST BE REPORTED TO THE UTAH DIVISION OF ENVIRONMENTAL QUALITY SPILL HOTLINE AT (801) 536-4123 IMMEDIATELY UPON DISCOVERY. EMERGENCY CONTACTS FOR THE PROJECT WILL BE POSTED AT THE PROJECT OFFICE. SPILL REPORTS WILL BE COMPLETED AND SUBMITTED BY THE PRIME CONTRACTOR ON THE PROJECT.

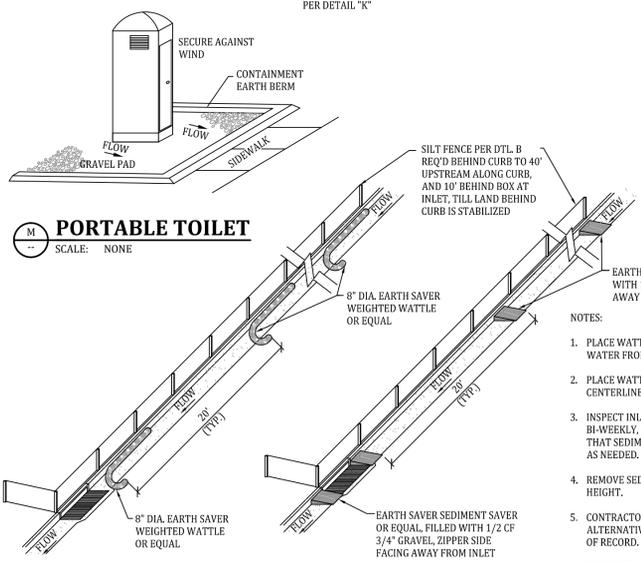
17.8 CONCRETE WASH-OUT: A BASIN OR DUMPSTER SHALL BE PLACED NEAR THE ENTRANCE TO THE PROJECT FOR THE PURPOSE OF WASHING OUT CONCRETE TRUCK CHUTES. BASIN SHALL BE CLEARLY SIGNED. SIGN SHALL DESIGNATE BASIN OR DUMPSTER AS CONCRETE WASHOUT FOR CONCRETE TRUCK CHUTES ONLY - CONCRETE WASH-OUT SHALL NOT BE ALLOWED ELSEWHERE

CALL BLUESTAKES @ 1-800-462-4111 AT LEAST 48 HOURS PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION.

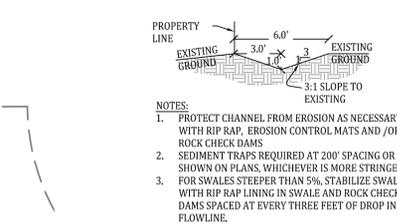


- EXCAVATE 6" X 6" TRENCH ALONG LIMITS OF DISTURBANCE AS SHOWN ON CONSTRUCTION DRAWINGS.
- POSTS SHALL BE POSITIONED ON DOWNSTREAM SIDE OF FENCE.
- LAY TOE-IN FABRIC FLAP IN BOTTOM OF TRENCH, BACKFILL TRENCH WITH FREE DRAINING GRANULAR MATERIAL, COMPACT TRENCH TO SATISFACTION OF THE ENGINEER OF RECORD.
- SILT FENCE GEOTEXTILE SHALL MEET AASHTO M288-92 REQUIREMENTS.
- REMOVE & DISPOSE OF SEDIMENT WHEN ACCUMULATION IS 50% OF EXPOSED FENCE HEIGHT.
- 10' MAX. SPACING BETWEEN STAKES.
- SILT FENCES SHALL BE INSTALLED ALONG CONTOURS, NOT UP AND DOWN SLOPES, WITH 10' OVERLAP AT BREAKS.

PORTABLE TOILET
SCALE: NONE

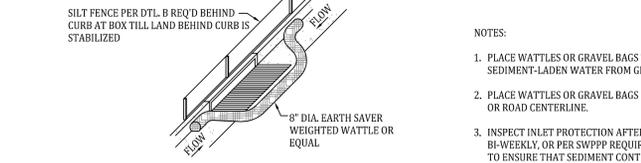


IN-LINE INLET PROTECTION
SCALE: NONE

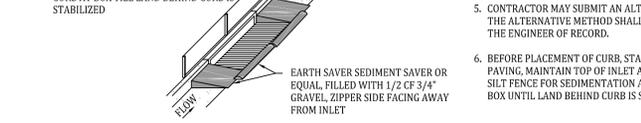


- PROTECT CHANNEL FROM EROSION AS NECESSARY WITH RIP RAP, EROSION CONTROL MATS AND /OR ROCK CHECK DAMS.
- SEDIMENT TRAPS REQUIRED AT 200' SPACING OR AS SHOWN ON PLANS, WHICHEVER IS MORE STRINGENT.
- FOR SWALES STEEPER THAN 5%, STABILIZE SWALES WITH RIP RAP LINING IN SWALE AND ROCK CHECK DAMS SPACED AT EVERY THREE FEET OF DROP IN FLOWLINE.

DRAINAGE SWALE
SCALE: NONE



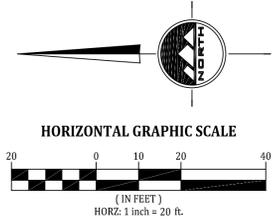
WATTLE OPTION



SANDBAG OPTION

- PLACE WATTLES OR GRAVEL BAGS TIGHT AGAINST CURB TO PREVENT SEDIMENT-LADEN WATER FROM GETTING BETWEEN CURB AND WATTLE/BAG.
- PLACE WATTLES OR GRAVEL BAGS SUCH THAT FLOW DOES NOT OVERTOP CURB OR ROAD CENTERLINE.
- INSPECT INLET PROTECTION AFTER EVERY LARGE STORM EVENT AND AT LEAST BI-WEEKLY, OR PER SWPPP REQUIREMENTS, WHICHEVER IS MORE STRINGENT, TO ENSURE THAT SEDIMENT CONTROL IS MEETING ITS DESIGN INTENT, MAINTAIN AND/OR REPLACE AS NEEDED.
- REMOVE SEDIMENT ACCUMULATED WHEN IT REACHES 50% OF GRAVEL BAG OR WATTLE HEIGHT.
- CONTRACTOR MAY SUBMIT AN ALTERNATIVE METHOD OF INLET PROTECTION, THE ALTERNATIVE METHOD SHALL BE APPROVED BY THE CITY INSPECTOR AND THE ENGINEER OF RECORD.
- BEFORE PLACEMENT OF CURB, STABILIZATION OF LAND BEHIND CURB, AND/OR PAVING, MAINTAIN TOP OF INLET AT 6" ABOVE GRADE, AND SURROUND WITH SILT FENCE FOR SEDIMENTATION AROUND BOX. MAINTAIN SILT FENCE BEHIND BOX UNTIL LAND BEHIND CURB IS STABILIZED.

SAG INLET PROTECTION
SCALE: NONE



LOCATED IN THE SOUTHWEST QUARTER OF SECTION 3 TOWNSHIP 5 NORTH, RANGE 1 WEST SALT LAKE BASE AND MERIDIAN OGDEN CITY, WEBER COUNTY, UTAH

- LEGEND**
- TEMPORARY SAG INLET PROTECTION PER DETAIL "A"
 - TEMPORARY IN-LINE INLET PROTECTION PER DETAIL "K"
 - TEMPORARY SILT FENCE PER DETAIL "B"
 - PROPOSED CONCRETE
 - EXISTING CONCRETE
 - LIMITS OF DISTURBANCE
 - GRADE BREAK
 - EXISTING 5' CONTOUR
 - EXISTING 1' CONTOUR
 - PROPOSED 5' CONTOUR
 - PROPOSED 1' CONTOUR

REVISION SCHEDULE			
NUMBER	DATE	AUTHOR	COMPANY REPRESENTATIVE SIGNATURE
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			

- NOTES**
- THIS PLAN IS DESIGNED AS A FIRST APPRAISAL OF NECESSARY MEANS TO PROTECT THE WATERS OF THE STATE FROM POTENTIAL POLLUTION. IT IS THE RESPONSIBILITY OF THE OWNER/OPERATOR TO ADD WARRANTED BEST MANAGEMENT PRACTICES (BMP'S) AS NECESSARY, MODIFY THOSE SHOWN AS APPROPRIATE, AND DELETE FROM THE PROJECT THOSE FOUND TO BE UNNECESSARY. FEDERAL AND STATE LAW ALLOWS THESE UPDATES TO BE MADE BY THE OWNER/OPERATOR ON-SITE AND RECORDED BY THE OWNER/OPERATOR ON THE COPY OF THE SWPPP KEPT ON-SITE.
 - ALL WORK SHALL COMPLY WITH CURRENT APWA PLANS AND SPECIFICATIONS, AND WITH CITY STANDARD PLANS AND SPECIFICATIONS.
 - DISTURBED LAND SHALL BE KEPT TO A MINIMUM - NO SITE CLEARING MORE THAN 14 CALENDAR DAYS AHEAD OF CONSTRUCTION IN ANY GIVEN AREA SHALL BE ALLOWED.
 - RESEED DISTURBED LAND WITH NATIVE GRASS MIXTURE WITHIN 14 CALENDAR DAYS OF ACHIEVEMENT OF FINISH GRADE TO STABILIZE SOILS IF LAND IS NOT TO BE RE-WORKED WITHIN 14 CALENDAR DAYS OF THE CESSATION OF CONSTRUCTION ACTIVITIES AT THAT LOCATION.
 - DETAILS SHOWN ARE TO BE EMPLOYED TO PROTECT RUNOFF AS APPROPRIATE DURING CONSTRUCTION - NOT ALL DETAILS ARE NECESSARY AT ALL PHASES OF THE PROJECT. IT SHALL BE THE RESPONSIBILITY OF THE OWNER/OPERATOR TO USE APPROPRIATE BEST MANAGEMENT PRACTICES.
 - NOT ALL POSSIBLE BMP'S HAVE BEEN SHOWN. CONTRACTOR IS RESPONSIBLE TO APPLY CORRECT MEASURES TO PREVENT POLLUTION OF STORM WATER PER PROJECT SWPPP.
 - PLAN LOCATIONS SHOWN FOR BMP'S ARE APPROXIMATE. ACTUAL LOCATIONS AND CONFIGURATIONS SHALL BE FIELD-DETERMINED BY THE OWNER/OPERATOR.
 - NOT ALL BMP'S SHOWN CAN OR SHOULD BE IMPLEMENTED SIMULTANEOUSLY AND/OR FOR THE DURATION OF CONSTRUCTION. SEE SWPPP FOR BMP IMPLEMENTATION SCHEDULE.
 - EXISTING TOPSOIL IS TO BE HARVESTED WHEN GROUND IS CLEARED. TOPSOIL SHALL THEN BE STOCKPILED ON-SITE FOR USE IN AREAS NOT OTHERWISE TO BE LANDSCAPED, TO ACCELERATE REVEGETATION AND STABILIZATION. AS AN ALTERNATE TO STOCKPILING TOPSOIL ON-SITE, OWNER/OPERATOR MAY IMPORT TOPSOIL TO AREAS TO BE STABILIZED FROM OFF-SITE.

ENSIGN

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Fax: 801.593.6315

SALT LAKE CITY
Phone: 801.255.0529

PLEASANT GROVE
Phone: 801.796.8145

TOOELE
Phone: 435.843.3590

WWW.ENSIGNUTAH.COM

FOR:
DIVISION OF FACILITIES
CONSTRUCTION & MANAGEMENT
4110 STATE OFFICE BUILDING
SALT LAKE CITY, UT. 84114

CONTACT:
LUCAS DAVIS
PHONE: 801-538-3791
FAX: 801-538-3267

WEBER STATE UNIVERSITY
A-1 PARKING LOT RE-CONSTRUCTION
3848 HARRISON BOULEVARD
OGDEN CITY, UTAH



NO.	DATE	REVISION	BY
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5			
6			
7			
8			

EROSION & SEDIMENT CONTROL PLAN

PROJECT NUMBER: 11908 DATE: 7/15/10

DRAWN BY: M.ELMER CHECKED BY: C.PRESTON

PROJECT MANAGER: K.RUSSELL

C 5.0



CALL BLUESTAKES
@ 1-800-462-4111 AT LEAST
48 HOURS PRIOR TO THE
COMMENCEMENT OF ANY
CONSTRUCTION.



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OGDEN CITY, UTAH**

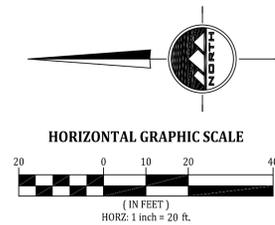
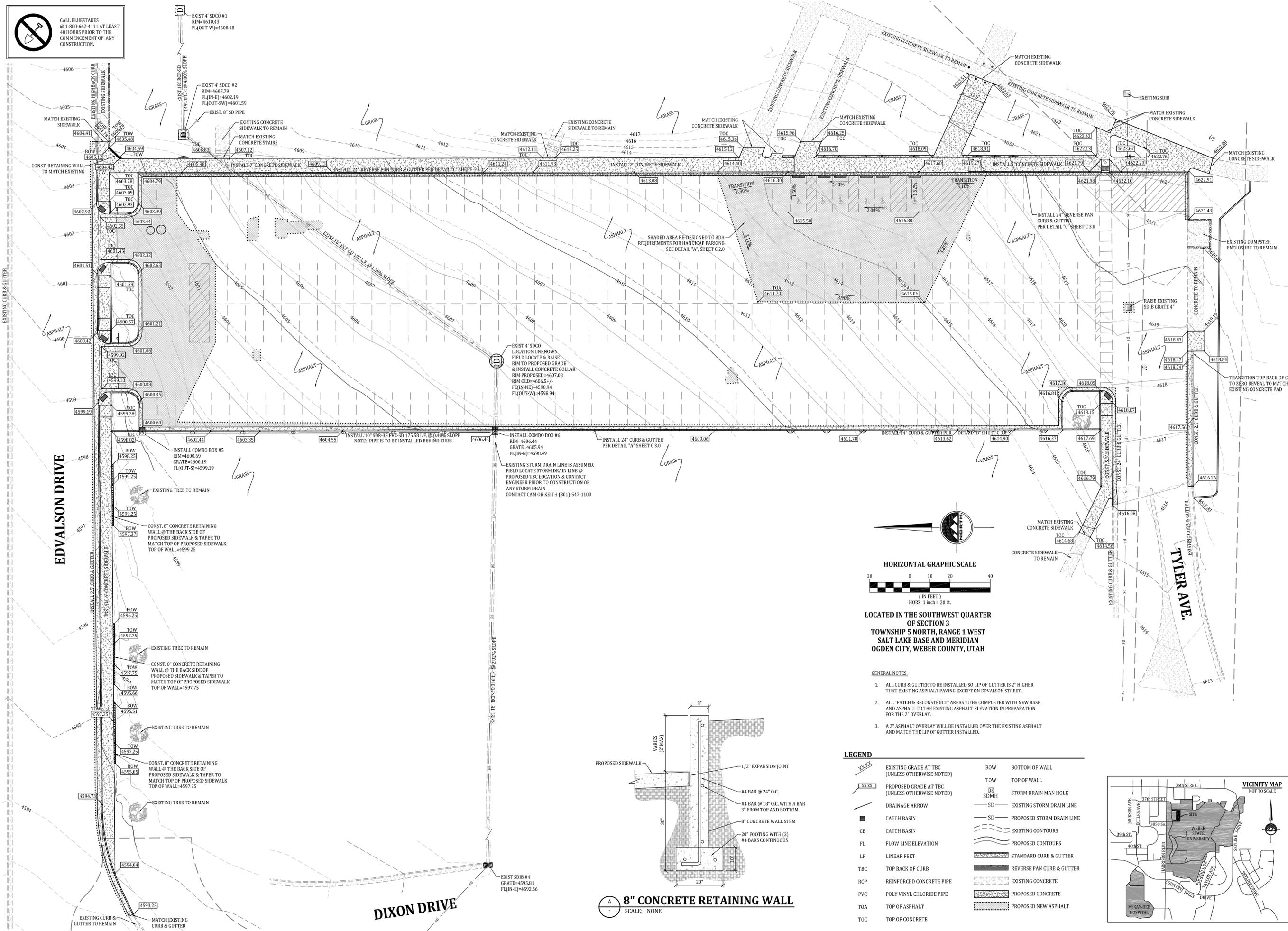


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5			
6			
7			
8			

GRADING & DRAINAGE PLAN

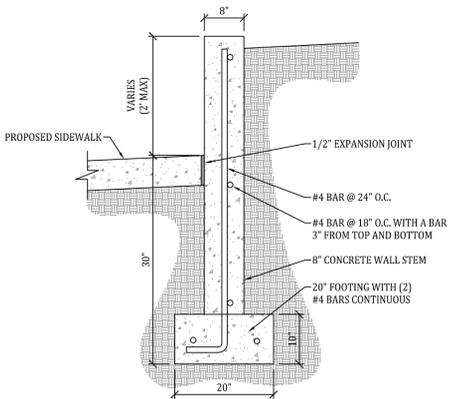
PROJECT NUMBER: 11908
DATE: 7/15/10
DRAWN BY: M.ELMER
CHECKED BY: C.PRESTON
PROJECT MANAGER: K.RUSSELL

C 4.0



LOCATED IN THE SOUTHWEST QUARTER
OF SECTION 3
TOWNSHIP 5 NORTH, RANGE 1 WEST
SALT LAKE BASE AND MERIDIAN
OGDEN CITY, WEBER COUNTY, UTAH

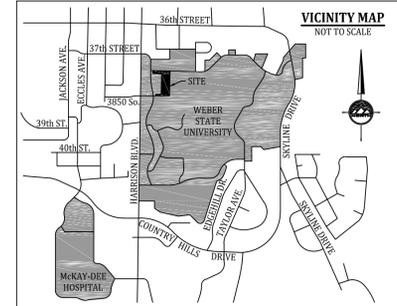
- GENERAL NOTES:**
- ALL CURB & GUTTER TO BE INSTALLED SO LIP OF GUTTER IS 2" HIGHER THAN EXISTING ASPHALT PAVING EXCEPT ON EDVALSON STREET.
 - ALL "PATCH & RECONSTRUCT" AREAS TO BE COMPLETED WITH NEW BASE AND ASPHALT TO THE EXISTING ASPHALT ELEVATION IN PREPARATION FOR THE 2" OVERLAY.
 - A 2" ASPHALT OVERLAY WILL BE INSTALLED OVER THE EXISTING ASPHALT AND MATCH THE LIP OF GUTTER INSTALLED.



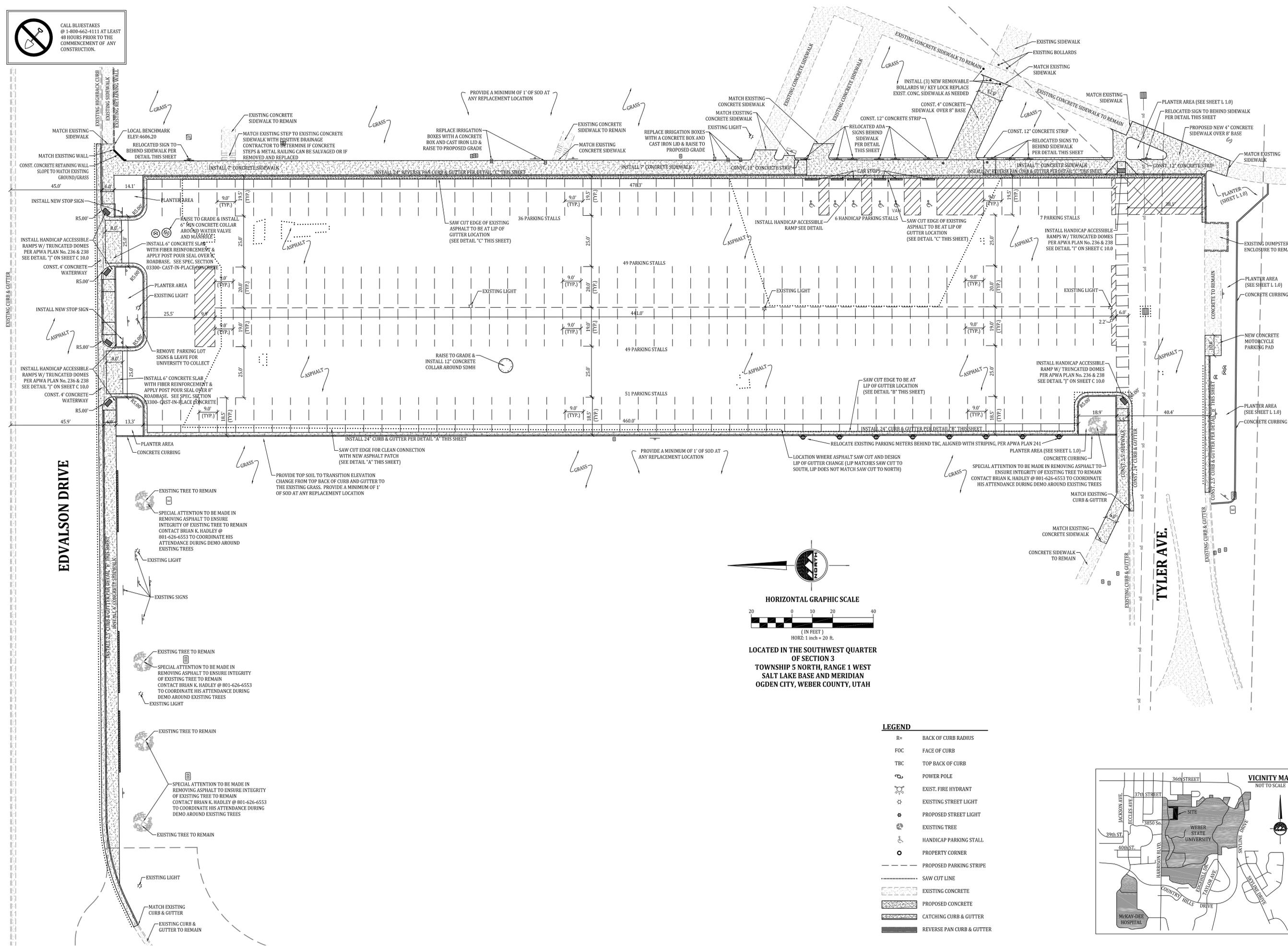
8" CONCRETE RETAINING WALL
SCALE: NONE

LEGEND

	EXISTING GRADE AT TBC (UNLESS OTHERWISE NOTED)		BOW BOTTOM OF WALL
	PROPOSED GRADE AT TBC (UNLESS OTHERWISE NOTED)		TOW TOP OF WALL
	DRAINAGE ARROW		SDMH STORM DRAIN MAN HOLE
	CATCH BASIN		SD EXISTING STORM DRAIN LINE
	CATCH BASIN		SD PROPOSED STORM DRAIN LINE
	FLOW LINE ELEVATION		EXISTING CONTOURS
	LINEAR FEET		PROPOSED CONTOURS
	TBC TOP BACK OF CURB		STANDARD CURB & GUTTER
	RCP REINFORCED CONCRETE PIPE		REVERSE PAN CURB & GUTTER
	PVC POLY VINYL CHLORIDE PIPE		EXISTING CONCRETE
	TOA TOP OF ASPHALT		PROPOSED CONCRETE
	TOC TOP OF CONCRETE		PROPOSED NEW ASPHALT

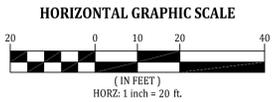
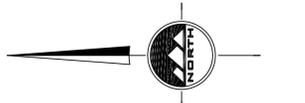


CALL BLUESTAKES @ 1-800-462-4111 AT LEAST 48 HOURS PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION.



EDVALSON DRIVE

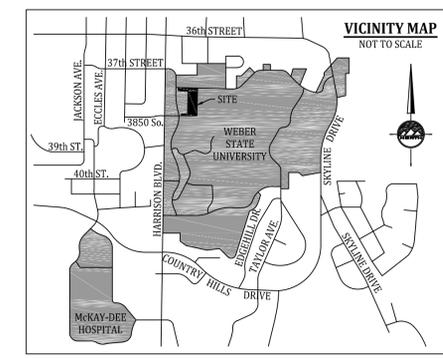
TYLER AVE.



LOCATED IN THE SOUTHWEST QUARTER OF SECTION 3
 TOWNSHIP 5 NORTH, RANGE 1 WEST
 SALT LAKE BASE AND MERIDIAN
 OGDEN CITY, WEBER COUNTY, UTAH

LEGEND

- R= BACK OF CURB RADIUS
- FACE OF CURB
- TBC TOP BACK OF CURB
- POWER POLE
- EXIST. FIRE HYDRANT
- EXISTING STREET LIGHT
- PROPOSED STREET LIGHT
- EXISTING TREE
- HANDICAP PARKING STALL
- PROPERTY CORNER
- PROPOSED PARKING STRIPE
- SAW CUT LINE
- EXISTING CONCRETE
- PROPOSED CONCRETE
- CATCHING CURB & GUTTER
- REVERSE PAN CURB & GUTTER



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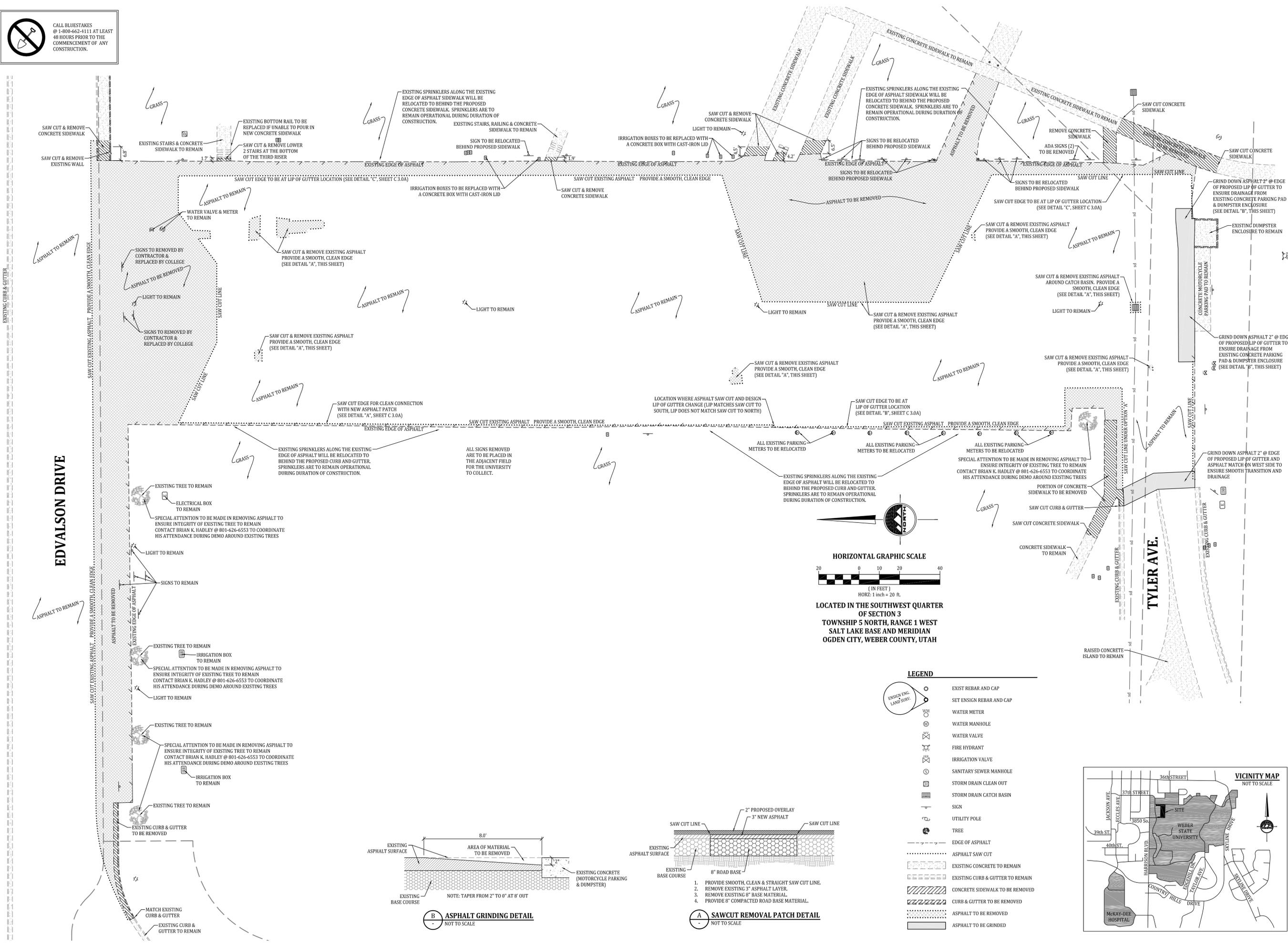
**SITE
 DIMENSION
 PLAN**

PROJECT NUMBER: 11908
 DATE: 7/15/10
 DRAWN BY: M.ELMER
 CHECKED BY: C.PRESTON
 PROJECT MANAGER: K.RUSSELL

C 3.0

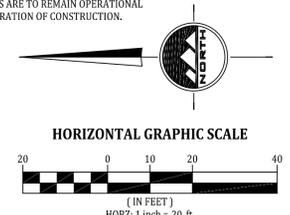


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EDVALSON DRIVE

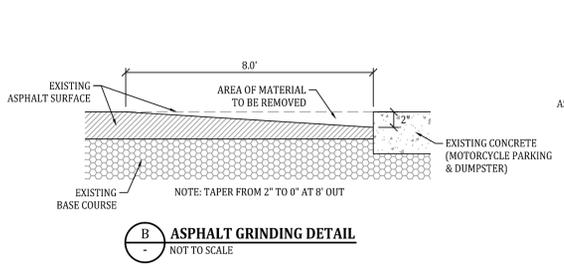
TYLER AVE.



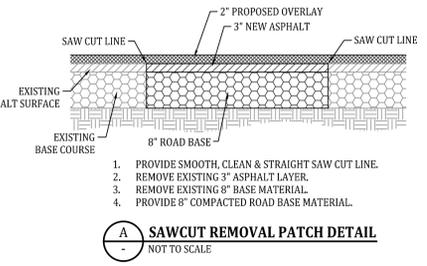
LOCATED IN THE SOUTHWEST QUARTER OF SECTION 3 TOWNSHIP 5 NORTH, RANGE 1 WEST SALT LAKE BASE AND MERIDIAN OGDEN CITY, WEBER COUNTY, UTAH

LEGEND

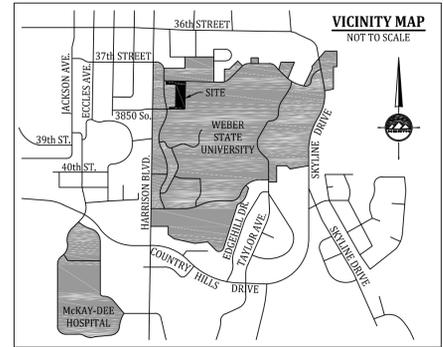
- ENSIGN ENG. LAND SURV.
- EXIST REBAR AND CAP
- SET ENSIGN REBAR AND CAP
- WATER METER
- WATER MANHOLE
- WATER VALVE
- FIRE HYDRANT
- IRRIGATION VALVE
- SANITARY SEWER MANHOLE
- STORM DRAIN CLEAN OUT
- STORM DRAIN CATCH BASIN
- UTILITY POLE
- TREE
- EDGE OF ASPHALT
- ASPHALT SAW CUT
- EXISTING CONCRETE TO REMAIN
- CONCRETE SIDEWALK TO BE REMOVED
- CURB & GUTTER TO BE REMOVED
- ASPHALT TO BE REMOVED
- ASPHALT TO BE GRINDED



A ASPHALT GRINDING DETAIL
NOT TO SCALE



B SAWCUT REMOVAL PATCH DETAIL
NOT TO SCALE



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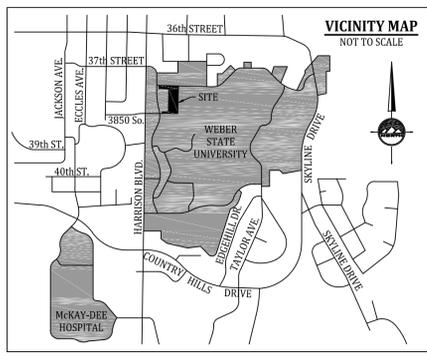
SITE DEMOLITION PLAN

PROJECT NUMBER: 11908 DATE: 7/15/10
DRAWN BY: M.ELMER CHECKED BY: C.PRESTON
PROJECT MANAGER: K.RUSSELL

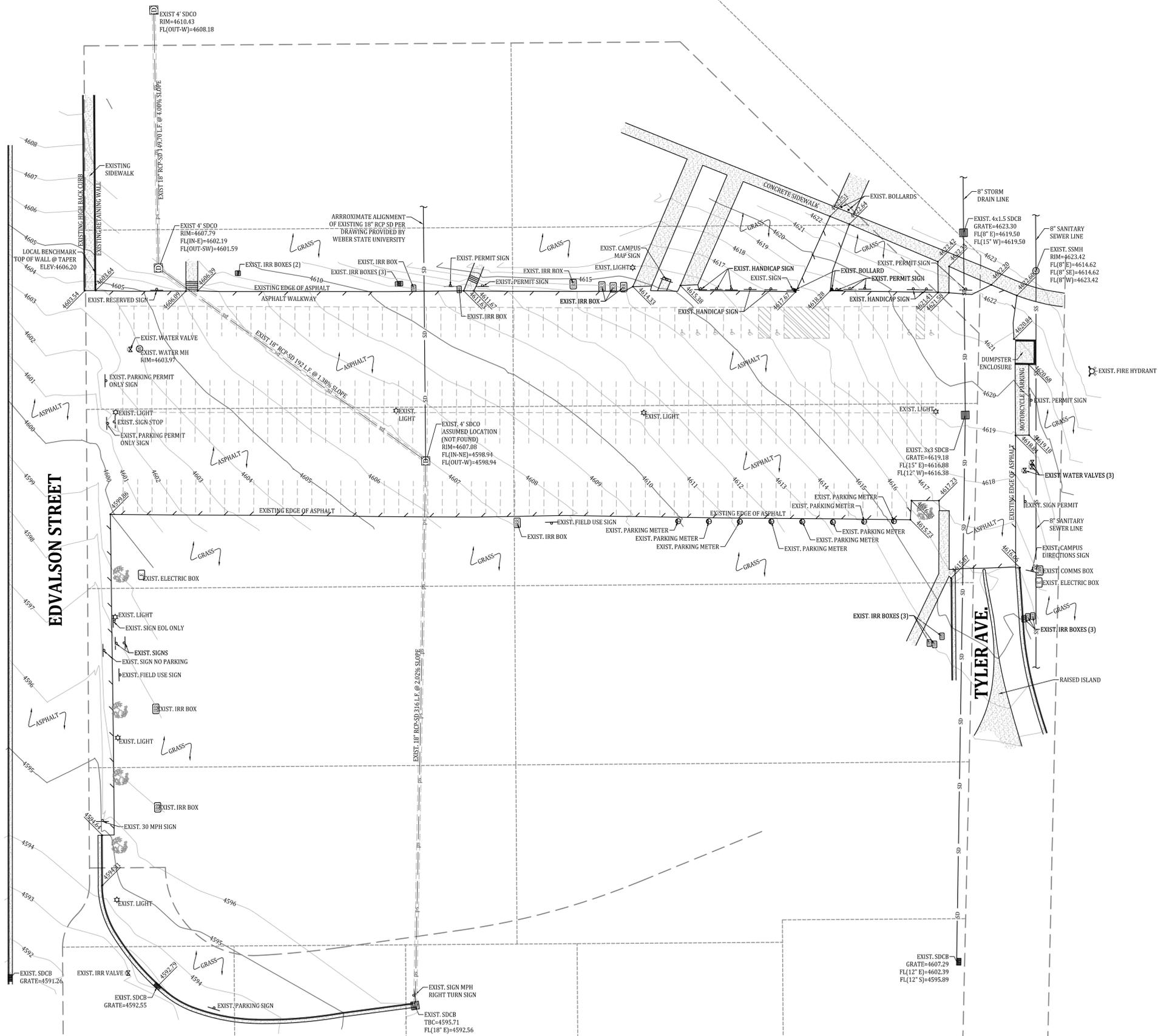
C 2.0

 CALL BLUESTAKES @ 1-800-462-4111 AT LEAST 48 HOURS PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION.

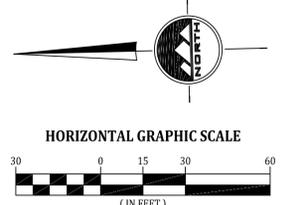
BENCHMARK
LOCAL BENCHMARK IS TOP OF RETAINING WALL BEFORE TAPER AT BACK OF SIDEWALK ON THE SOUTH SIDE OF EDVALSON STREET AND THE EAST SIDE OF THE PARKING LOT
ELEVATION = 4606.20



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- LEGEND**
-  SECTION CORNER
 -  MONUMENT
 -  EXIST REBAR AND CAP
 -  SET ENSIGN REBAR AND CAP
 -  WATER METER
 -  WATER MANHOLE
 -  WATER VALVE
 -  FIRE HYDRANT
 -  IRRIGATION VALVE
 -  IRRIGATION BOX
 -  SANITARY SEWER MANHOLE
 -  STORM DRAIN CLEAN OUT
 -  STORM DRAIN CATCH BASIN
 -  SIGN
 -  ELECTRICAL BOX
 -  COMMUNICATIONS BOX
 -  LIGHT
 -  EDGE OF ASPHALT
 -  EDGE OF DAMAGED ASPHALT
 -  SANITARY SEWER
 -  STORM DRAIN LINE
 -  EXISTING CONTOURS
 -  CONCRETE
 -  BUILDING



LOCATED IN THE SOUTHWEST QUARTER OF SECTION 3
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OGDEN CITY, WEBER COUNTY, UTAH

WEBER STATE UNIVERSITY
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OGDEN CITY, UTAH

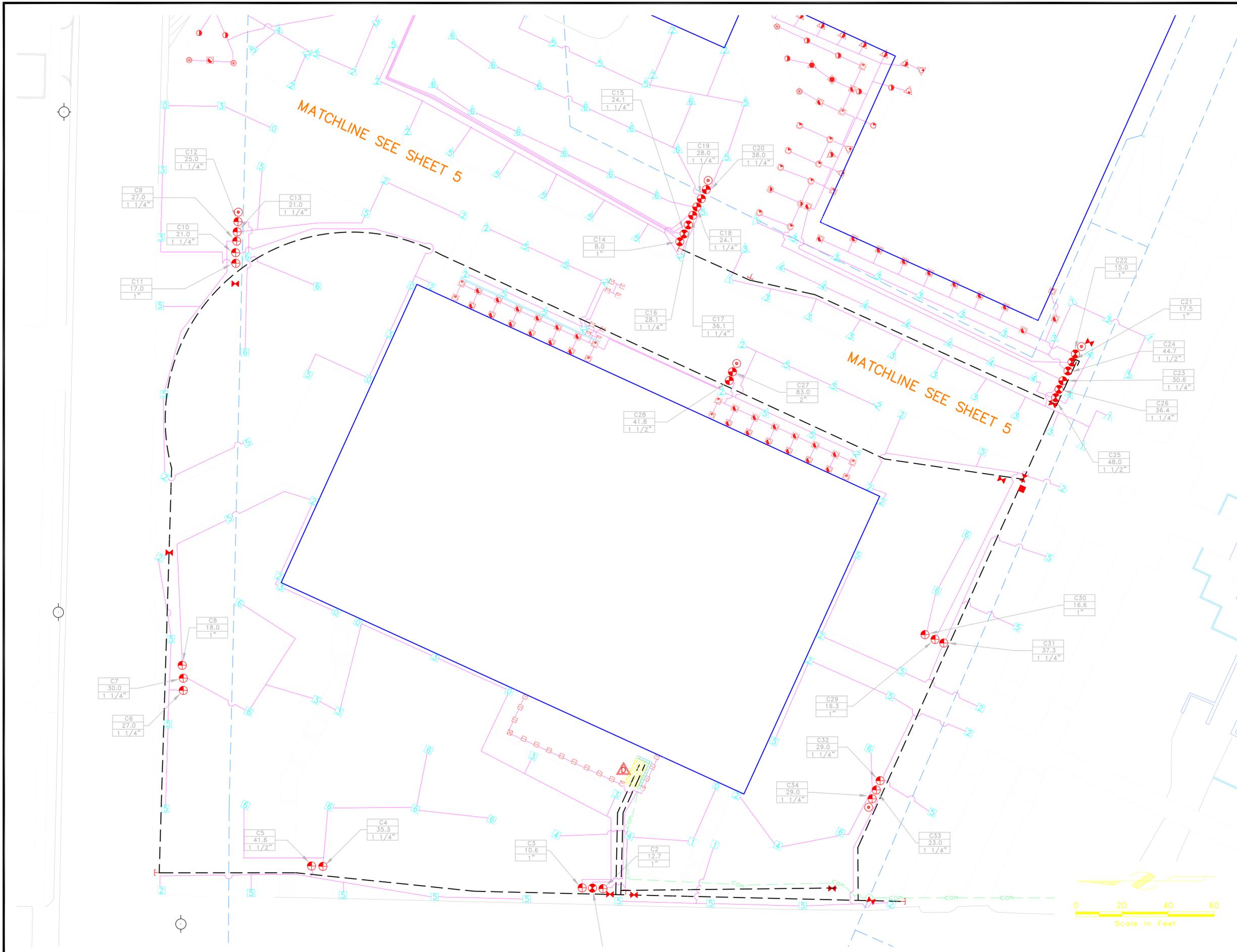
PROFESSIONAL LAND SURVEYOR
No. 164386
6-18-10
KEITH R. RUSSELL
STATE OF UTAH

TOPOGRAPHY SURVEY

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8			

PROJECT NUMBER: 11908 DATE: 7/2/10
DRAWN BY: M.ELMEYER CHECKED BY: C.PRESTON
PROJECT MANAGER: K.RUSSELL

C 1.0



NOTES:

A IRRIGATION MECHANICAL DETAIL
NTS

Rev.	By	Date	Remarks
0	GHG	8/17/04	ISSUED FOR BID
1	RKC	8/10/04	ISSUED FOR REVIEW

WEBER STATE UNIVERSITY
IRRIGATION/LANDSCAPE IMPROVEMENTS
**SOCIAL SCIENCE BUILDING
IRRIGATION PLAN**

<p>BINGHAM ENGINEERING SALT LAKE CITY - (801) 532-2522 OGDEN - (801) 399-1662</p>	Des: RKC	Sht L-7
	Drw: RKC	
	Chk: GHG	
	Rvw: _____	

