

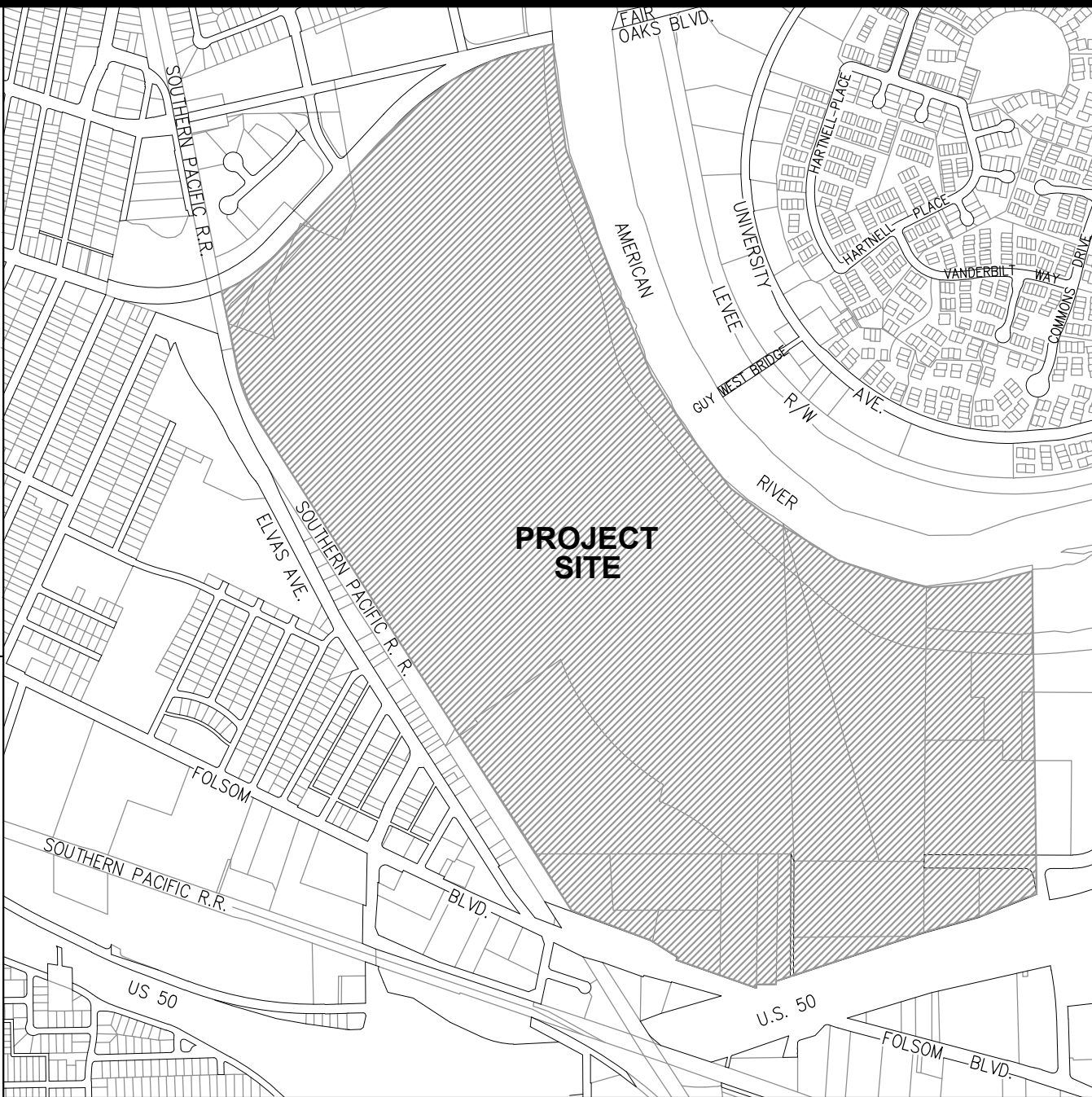
CONSTRUCTION DOCUMENTS  
CALIFORNIA STATE UNIVERSITY, SACRAMENTO  
LOW IMPACT DEVELOPMENT (LID) STORMWATER SYSTEM

INDEX OF SHEETS

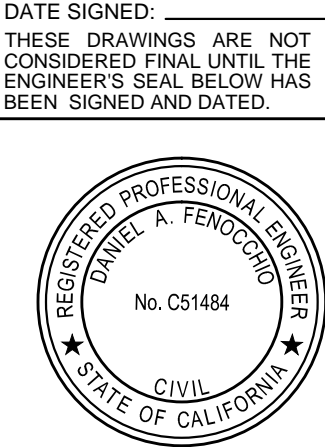
TITLE SHEETS	
T-1	TITLE SHEET
T-2	KEY MAP
T-3	CIVIL NOTES, LEGEND AND ABBREVIATIONS

CIVIL SHEETS	
LOT 7 SOUTH	
L7S-C1	LOT 7 SOUTH SITE PLAN
L7S-C2	LOT 7 SOUTH HORIZONTAL CONTROL PLAN
L7S-C3	LOT 7 SOUTH DEMOLITION PLAN
L7S-C4	LOT 7 SOUTH IMPROVEMENT PLAN
L7S-C5	LOT 7 SOUTH EROSION CONTROL PLAN
L7S-C6	LOT 7 SOUTH SECTIONS
L7S-C7	LOT 7 SOUTH SECTIONS
L7S-C8	LOT 7 SOUTH DETAILS
LOT 7 NORTH	
L7N-C1	LOT 7 NORTH SITE PLAN
L7N-C2	LOT 7 NORTH HORIZONTAL CONTROL PLAN
L7N-C3	LOT 7 NORTH DEMOLITION PLAN
L7N-C4	LOT 7 NORTH IMPROVEMENT PLAN
L7N-C5	LOT 7 NORTH EROSION CONTROL PLAN
L7N-C6	LOT 7 NORTH SECTIONS
L7N-C7	LOT 7 NORTH SECTIONS
L7N-C8	LOT 7 NORTH DETAILS
JED SMITH	
JS-C1	JED SMITH DRIVE DEMOLITION PLAN
JS-C2	JED SMITH DRIVE HORIZONTAL CONTROL PLAN
JS-C3	JED SMITH DRIVE CIVIL IMPROVEMENT PLAN
JS-C4	JED SMITH DRIVE EROSION CONTROL PLAN
JS-C5	JED SMITH DRIVE SECTIONS
JS-C6	JED SMITH DRIVE DETAILS
LIBRARY GREEN	
LG-C1	LIBRARY GREEN SITE PLAN
LG-C2	LIBRARY GREEN HORIZONTAL CONTROL PLAN
LG-C3	LIBRARY GREEN DEMOLITION PLAN
LG-C4	LIBRARY GREEN IMPROVEMENT PLAN
LG-C5	LIBRARY GREEN EROSION CONTROL PLAN
LG-C6	LIBRARY GREEN SECTIONS & DETAILS
CALAVERAS HALL	
CH-C1	CALAVERAS HALL SITE PLAN
CH-C2	CALAVERAS HALL HORIZONTAL CONTROL PLAN
CH-C3	CALAVERAS HALL DEMOLITION PLAN
CH-C4	CALAVERAS HALL IMPROVEMENT PLAN
CH-C5	CALAVERAS HALL SECTIONS
CH-C6	CALAVERAS HALL EROSION CONTROL PLAN
CH-C7	CALAVERAS HALL DETAILS
CAMPUS GROVE	
CG-C1	CAMPUS GROVE SITE PLAN
CG-C2	CAMPUS GROVE HORIZONTAL CONTROL PLAN
CG-C3	CAMPUS GROVE DEMOLITION PLAN
CG-C4	CAMPUS GROVE IMPROVEMENT PLAN
CG-C5	CAMPUS GROVE EROSION CONTROL PLAN
CG-C6	CAMPUS GROVE SECTIONS & DETAILS
ESPLANADE DRIVE	
ESP-C1	ESPLANADE DRIVE SITE PLAN
ESP-C2	ESPLANADE DRIVE HORIZONTAL CONTROL PLAN
ESP-C3	ESPLANADE DRIVE DEMOLITION PLAN
ESP-C4	ESPLANADE DRIVE IMPROVEMENT PLAN
ESP-C5	ESPLANADE DRIVE EROSION CONTROL PLAN
ESP-C6	ESPLANADE DRIVE SECTIONS & DETAILS
COLLEGE TOWN DRIVE	
CTD-C1	COLLEGE TOWN DRIVE SITE PLAN
CTD-C2	COLLEGE TOWN DRIVE HORIZONTAL CONTROL PLAN
CTD-C3	COLLEGE TOWN DRIVE DEMOLITION PLAN
CTD-C4	COLLEGE TOWN DRIVE IMPROVEMENT PLAN
CTD-C5	COLLEGE TOWN EROSION CONTROL PLAN
CTD-C6	COLLEGE TOWN DRIVE SECTIONS & DETAILS
LOT 10	
L10-C1	LOT 10 SITE PLAN
L10-C2	LOT 10 HORIZONTAL CONTROL PLAN
L10-C3	LOT 10 DEMOLITION PLAN
L10-C4	LOT 10 IMPROVEMENT PLAN
L10-C5	LOT 10 EROSION CONTROL PLAN
L10-C6	LOT 10 SECTIONS
L10-C7	LOT 10 DETAILS

LANDSCAPE SHEETS	
LOT 7 SOUTH	
L7S-L1	LOT 7 SOUTH IRRIGATION PLAN
L7S-L2	LOT 7 SOUTH IRRIGATION NOTES & DETAILS
L7S-L3	LOT 7 SOUTH PLANTING PLAN
L7S-L4	LOT 7 SOUTH PLANTING NOTES & DETAILS
LOT 7 NORTH	
L7N-L1	LOT 7 NORTH IRRIGATION PLAN
L7N-L2	LOT 7 NORTH IRRIGATION NOTES & DETAILS
L7N-L3	LOT 7 NORTH PLANTING PLAN
L7N-L4	LOT 7 NORTH PLANTING NOTES & DETAILS
JED SMITH	
JS-L1	JED SMITH DRIVE IRRIGATION PLAN
JS-L2	JED SMITH DRIVE IRRIGATION NOTES & DETAILS
JS-L3	JED SMITH DRIVE PLANTING PLAN
JS-L4	JED SMITH DRIVE PLANTING NOTES & DETAILS
LIBRARY GREEN	
LG-L1	LIBRARY GREEN IRRIGATION PLAN
LG-L2	LIBRARY GREEN IRRIGATION NOTES & DETAILS
LG-L3	LIBRARY GREEN PLANTING PLAN
LG-L4	LIBRARY GREEN PLANTING NOTES & DETAILS
CALAVERAS HALL	
CH-L1	CALAVERAS HALL IRRIGATION PLAN
CH-L2	CALAVERAS HALL IRRIGATION NOTES & DETAILS
CH-L3	CALAVERAS HALL PLANTING PLAN
CH-L4	CALAVERAS HALL PLANTING NOTES & DETAILS
CAMPUS GROVE	
CG-L1	CAMPUS GROVE IRRIGATION PLAN
CG-L2	CAMPUS GROVE IRRIGATION NOTES & DETAILS
CG-L3	CAMPUS GROVE PLANTING PLAN
CG-L4	CAMPUS GROVE PLANTING NOTES & DETAILS
ESPLANADE DRIVE	
ESP-L1	ESPLANADE DRIVE IRRIGATION PLAN
ESP-L2	ESPLANADE DRIVE IRRIGATION NOTES & DETAILS
ESP-L3	ESPLANADE DRIVE PLANTING PLAN
ESP-L4	ESPLANADE DRIVE PLANTING NOTES & DETAILS
COLLEGE TOWN DRIVE	
CTD-L1	COLLEGE TOWN DRIVE IRRIGATION PLAN
CTD-L2	COLLEGE TOWN DRIVE IRRIGATION NOTES & DETAILS
CTD-L3	COLLEGE TOWN DRIVE PLANTING PLAN
CTD-L4	COLLEGE TOWN DRIVE PLANTING NOTES & DETAILS
LOT 10	
L10-L1	LOT 10 IRRIGATION PLAN
L10-L2	LOT 10 IRRIGATION NOTES & DETAILS
L10-L3	LOT 10 PLANTING PLAN
L10-L4	LOT10 PLANTING NOTES & DETAILS

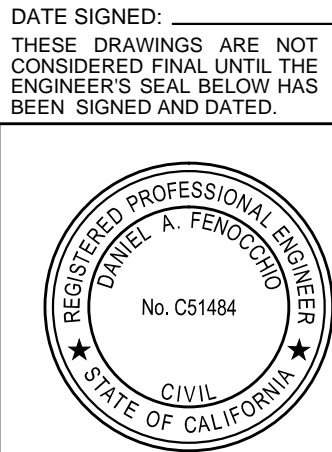
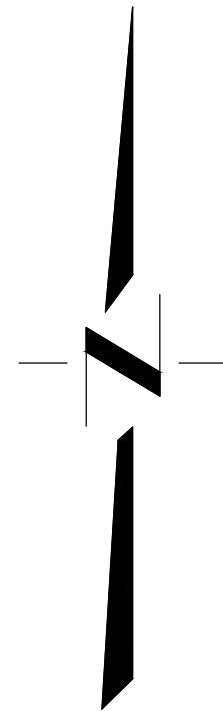
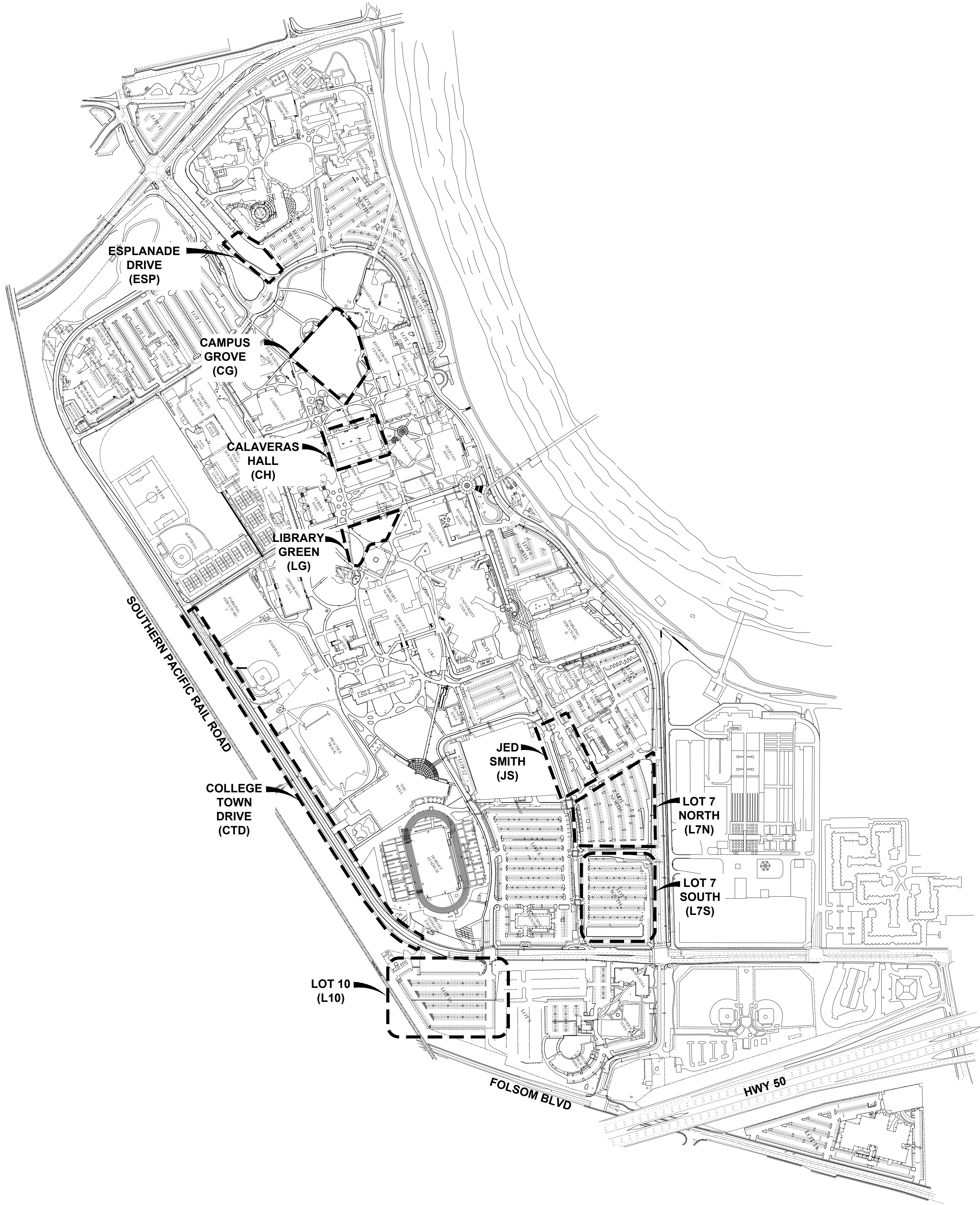


VICINITY MAP  
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CONSTRUCTION DOCUMENTS CSUS LID STORMWATER SYSTEM					
TITLE SHEET					
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CONSTRUCTION DOCUMENTS  
CSUS LID STORMWATER SYSTEM

KEY MAP

CALIFORNIA STATE UNIVERSITY, SACRAMENTO

CALIFORNIA

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ENGINEER'S GENERAL NOTES

1. THE CONTRACTOR SHALL BE IN RECEIPT OF CSUS APPROVED PLANS PRIOR TO BEGINNING ANY WORK.
2. THE TYPES, LOCATIONS, SIZES, AND/OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THESE PLANS WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. THE CONTRACTOR IS CAUTIONED THAT ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZE, LOCATION, AND DEPTH OF SUCH UNDERGROUND UTILITIES. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE ALL UNDERGROUND FACILITIES. HOWEVER, THE ENGINEER CAN ASSUME NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF ITS DELINEATION OF SUCH UNDERGROUND FACILITIES NOR FOR THE EXISTENCE OF OTHER BURIED OBJECTS WHICH ARE NOT SHOWN ON THESE PLANS. IF NO ELEVATION IS SHOWN ON THE PLANS THE CONTRACTOR SHALL ASSUME THE ELEVATION TO BE UNKNOWN.
3. THE CONTRACTOR IS TO EXPOSE THE END OF EXISTING UNDERGROUND UTILITIES AT POINTS OF CONNECTION AND VERIFY SIZE, LOCATION AND DEPTH OF FACILITIES PRIOR TO EXCAVATION OF PROPOSED UTILITY. ALL COSTS FOR SUCH EXCAVATION SHALL BE INCLUDED IN PRICES FOR VARIOUS ITEMS OF WORK.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPORTING ALL CONFLICTS, ERRORS, OMISSIONS, ETC. TO THE ENGINEER IMMEDIATELY UPON DISCOVERY. IF SO DIRECTED BY THE ENGINEER OR CSUS REPRESENTATIVE, THE CONTRACTOR SHALL STOP WORK UNTIL MITIGATION CAN BE MADE. ANY COSTS INCURRED RESULTING FROM THE CONTRACTOR'S FAILURE TO STOP WORK AS DIRECTED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
5. ALL WORK SHALL BE SUBJECT TO THE INSPECTION AND APPROVAL OF THE APPROPRIATE PUBLIC AGENCY OR OWNER. WORK SHALL NOT BE COVERED PRIOR TO INSPECTION AND APPROVAL. REJECTED WORK SHALL BE REDONE AT THE CONTRACTOR'S EXPENSE.
6. CONSTRUCTION OF ACCESSIBLE RAMPS SHALL BE IN STRICT CONFORMANCE WITH THE MOST RECENT EDITION OF THE CITY OF SACRAMENTO STANDARD SPECIFICATIONS AND DETAILS, TITLE 24 OF THE CALIFORNIA BUILDING CODE, AND FEDERAL AMERICANS WITH DISABILITIES ACT.
7. AT THE CONCLUSION OF ITS WORK, THE CONTRACTOR SHALL REPAIR OR REPLACE IN KIND ALL DAMAGED PROPERTY (PUBLIC AND PRIVATE) FOR WHICH HE IS RESPONSIBLE (INCLUDING CURB, GUTTER AND SIDEWALK). THE WORK SITE AND ADJACENT AREAS SHALL BE CLEANED UP. THIS REPAIR AND REPLACEMENT, AND CLEAN UP WORK SHALL BE SUBJECT TO THE APPROVAL AND ACCEPTANCE OF THE OWNER OR PUBLIC ENTITY AS IS APPROPRIATE.
8. CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF DESIGN PROFESSIONAL.
9. THE CONTRACTOR SHALL PROVIDE ALL CONSTRUCTION STAKING.
10. CUNNINGHAM ENGINEERING CORPORATION HAS EXERCISED A REASONABLE AND ACCEPTABLE STANDARD OF CARE IN THE PREPARATION OF THESE PLANS, HOWEVER, THE DESIGN PROCESS INCLUDES ACTIVITIES OCCURRING AFTER PLAN SIGNATURE. THESE ACTIVITIES INCLUDE CALCULATIONS, PLAN CHECK AND VERIFICATIONS DURING CONSTRUCTION. SHOULD PERSONS OTHER THAN CUNNINGHAM ENGINEERING CORPORATION PERFORM THE CONSTRUCTION STAKING OPERATION, THEY SHALL INDEMNIFY CUNNINGHAM ENGINEERING CORPORATION FROM ANY DAMAGES RESULTING FROM FAILURE TO PERFORM THESE TASKS OR ANY EXPENSE OR DAMAGE RESULTING FROM OMISSION OR ERROR CONTAINED IN THE PLANS WHICH WOULD REASONABLY HAVE BEEN DISCOVERED AND CORRECTED BY CUNNINGHAM ENGINEERING CORPORATION.
11. UNAUTHORIZED CHANGES & USES: THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.
12. TOPOGRAPHIC INFORMATION WAS PREPARED BY MORROW SURVEYING DATED FEBRUARY 2015. CONTRACTOR SHALL FIELD VERIFY ALL CURRENT CONDITIONS AND CONTACT DESIGN ENGINEER IF ACTUAL SITE CONDITIONS VARY FROM INFORMATION SHOWN ON PLANS PRIOR TO CONSTRUCTION.
13. CONTRACTOR SHALL BE IN RECEIPT OF, AND BE IN COMPLIANCE WITH, PROJECT SPECIFICATIONS FOR ALL WORK.

TREE PRESERVATION CONSTRUCTION NOTES

1. PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITY, A 6 FOOT HIGH CYCLONE FENCE SHALL BE INSTALLED AROUND ALL TREES TO REMAIN TO EDGE OF TREE DRIP LINE WITHIN LANDSCAPE AREAS AND TO ADJACENT CURBS FOR PARKING AREAS. THE FENCING SHALL REMAIN IN PLACE FOR THE DURATION OF THE PROJECT. WITHIN THE FENCED AREA THERE SHALL BE NO GRADE CHANGES, STORAGE OF MATERIALS, TRENCHING, OR PARKING OF VEHICLES.
2. HAND DIG TRENCHES PASSING THROUGH TREE ROOT ZONES. ALL TREE ROOTS OVER 1" TO BE SAVED. ROOTS 1" OR SMALLER TO BE CLEAN CUT WITH SHARP, DISINFECTED PRUNING SHEARS. IF DURING EXCAVATION FOR THE PROJECT ANY TREE ROOTS GREATER THAN TWO INCHES IN DIAMETER ARE ENCOUNTERED WORK SHALL STOP IMMEDIATELY UNTIL PROJECT ARBORIST OR OWNER REPRESENTATIVE CAN PERFORM AN ON-SITE INSPECTION. ALL ROOTS SHALL BE CUT CLEAN AND THE TREE AFFECTED MAY REQUIRE SUPPLEMENTAL IRRIGATION, FERTILIZATION, AND PRUNING AS A RESULT OF TREE PRUNING.
3. THE CONTRACTOR SHALL BE HELD LIABLE FOR ANY DAMAGE TO EXISTING TREES I.E. TRUNK WOUNDS, BROKEN LIMB, POURING OF ANY DELETERIOUS MATERIALS, OR WASHING OUT CONCRETE UNDER THE DRIP LINE OF THE TREE. DAMAGES WILL BE ASSESSED USING THE "GUIDE TO PLANT APPRAISAL" NINTH EDITION PUBLISHED BY THE ISA & PER SPEC 1530. THE PROJECT ARBORIST OR OWNER REPRESENTATIVE WILL DO THE APPRAISAL AND SUBMIT A REPORT AS NEEDED.
4. HAND GRUB UNDER EXISTING TREES PRIOR TO PLACING NEW MATERIAL. KEEP MULCH 12" AWAY FROM TREE TRUNKS.
5. CONTRACTOR TO NOTIFY LANDSCAPE ARCHITECT IF GRADE CHANGES EXCEED 6" WITHIN 5' OF ANY EXISTING TREE TRUNK.

CITY OF SACRAMENTO GENERAL NOTES

1. ALL CONSTRUCTION MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE CITY OF SACRAMENTO STANDARD SPECIFICATIONS, DATED JUNE 2007. THE CONTRACTOR SHALL OBTAIN AND USE ALL APPLICABLE ADDENDUMS.
2. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EXACT LOCATION OF ALL EXISTING UTILITIES AND FOR THE PROTECTION OF AND REPAIR OF DAMAGE TO THEM. CONTACT UNDERGROUND SERVICE ALERT 1-800-642-2444, 48 HOURS BEFORE WORK IS TO BEGIN.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR AND FURNISH, INSTALL, AND MAINTAIN TEMPORARY SIGNS, BRIDGES, BARRICADES, FLAGMEN, AND OTHER FACILITIES TO ADEQUATELY SAFEGUARD THE GENERAL PUBLIC AND WORK, AND TO PROVIDE FOR THE PROPER ROUTING OF VEHICULAR AND PEDESTRIAN TRAFFIC.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING SURVEY MONUMENTS OR MARKERS DURING CONSTRUCTION.
5. THE CONTRACTOR SHALL MAINTAIN ALL EXISTING DRAINAGE AND SEWER FACILITIES WITHIN THE CONSTRUCTION AREA UNTIL NEW DRAINAGE AND SEWER IMPROVEMENTS ARE IN PLACE AND FUNCTIONING.
6. IF UNUSUAL AMOUNTS OF BONE, STONE OR ARTIFACTS ARE UNCOVERED, WORK WITHIN 50 METERS OF THE AREA SHALL CEASE IMMEDIATELY AND A QUALIFIED ARCHEOLOGIST AND A REPRESENTATIVE OF THE NATIVE AMERICAN HERITAGE COMMISSION SHALL BE CONSULTED TO DEVELOP, IF NECESSARY, MITIGATION MEASURES TO REDUCE ANY ARCHAEOLOGICAL IMPACT TO A LESS THAN SIGNIFICANT EFFECT BEFORE CONSTRUCTION RESUMES IN THE AREA.
7. COST TO REMOVE AND REPLACE EXISTING PAVEMENT OVER THE WATER, STORM AND SANITARY LINE TRENCHES SHALL BE INCLUDED IN THE PRICE BID FOR PIPE IN PLACE. REPLACEMENT SHALL MATCH EXISTING PAVEMENT SECTION (4" AC OVER 8" AB, MINIMUM), OR AS INDICATED ON THE PLANS.
8. ALL TAPS TWENTY-FOUR (24) INCHES & SMALLER INTO SEWER & DRAIN MANHOLES SHALL BE CORE BORED WITH KOR-N-SEAL TAPS OR APPROVED EQUAL
9. THE CONTRACTOR SHALL COMPLY WITH THE CITY OF SACRAMENTO ADMINISTRATIVE AND TECHNICAL MANUAL FOR GRADING/EROSION AND SEDIMENT CONTROL. CONTRACTOR SHALL HAVE ALL APPROPRIATE EROSION AND SEDIMENT CONTROL MEASURES IN PLACE FOR THE WINTER MONTHS PRIOR TO OCTOBER 1 AND MUST ENSURE THAT THE CONSTRUCTION SITE IS PREPARED PRIOR TO THE ONSET OF ANY STORM.

CITY OF SACRAMENTO DEPARTMENT OF UTILITIES  
STANDARD EROSION AND SEDIMENT CONTROL NOTES

1. THE CONTRACTOR SHALL FOLLOW THE GUIDELINES FOR THE CITY OF SACRAMENTO'S "ADMINISTRATIVE AND TECHNICAL PROCEDURES MANUAL FOR GRADING AND EROSION AND SEDIMENT CONTROL" FOR THE MEASURES SHOWN OR STATED ON THESE PLANS.
2. CONTRACTOR MUST ENSURE THAT THE CONSTRUCTION SITE IS PREPARED PRIOR TO THE ONSET OF ANY STORM. CONTRACTOR SHALL HAVE ALL EROSION AND SEDIMENT CONTROL MEASURES IN PLACE FOR THE WINTER MONTHS PRIOR TO OCTOBER 1.
3. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED UNTIL DISTURBED AREAS ARE STABILIZED. CHANGES TO THIS EROSION AND SEDIMENT CONTROL PLAN SHALL BE MADE TO MEET FIELD CONDITIONS ONLY WITH THE APPROVAL OF OR AT THE DIRECTION OF A REPRESENTATIVE OF THE DEPARTMENT OF UTILITIES.
4. THIS PLAN MAY NOT COVER ALL THE SITUATIONS THAT ARISE DURING CONSTRUCTION DUE TO UNANTICIPATED FIELD CONDITIONS. VARIATIONS MAY BE MADE TO THE PLAN IN THE FIELD SUBJECT TO THE APPROVAL OF OR AT THE DIRECTION OF A REPRESENTATIVE OF THE DEPARTMENT OF UTILITIES.
5. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CHECKED BEFORE AND AFTER ALL STORMS TO ENSURE MEASURES ARE FUNCTIONING PROPERLY.
6. CONTRACTOR SHALL MAINTAIN A LOG AT THE SITE OF ALL INSPECTIONS OR MAINTENANCE OF BMPS, AS WELL AS, ANY CORRECTIVE CHANGES TO THE BMPS OR EROSION AND SEDIMENT CONTROL PLAN.
7. IN AREAS WHERE SOIL IS EXPOSED, PROMPT REPLANTING WITH NATIVE COMPATIBLE, DROUGHT-RESISTANT VEGETATION SHALL BE PERFORMED. NO AREAS WILL BE LEFT EXPOSED OVER THE WINTER SEASON.
8. THE CONTRACTOR SHALL INSTALL THE STABILIZED CONSTRUCTION ENTRANCE PRIOR TO COMMENCEMENT OF GRADING. LOCATION OF THE ENTRANCE MAY BE ADJUSTED BY THE CONTRACTOR TO FACILITATE GRADING OPERATIONS. ALL CONSTRUCTION TRAFFIC ENTERING THE PAVED ROAD MUST CROSS THE STABILIZED CONSTRUCTION ENTRANCE. THE STABILIZED CONSTRUCTION ENTRANCE SHALL REMAIN IN PLACE UNTIL THE ROAD BASE ROCK COURSE IS COMPLETED.
9. ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS SHALL BE SWEEPED AT THE END OF EACH WORKING DAY OR AS NECESSARY.
10. CONTRACTOR SHALL PLACE SANDBAGS FILLED WITH 1/2" DRAIN ROCK AROUND ALL NEW DRAINAGE STRUCTURE OPENINGS IMMEDIATELY AFTER THE STRUCTURE OPENING IS CONSTRUCTED. THESE SANDBAGS FILLED WITH 1/2" DRAIN ROCK SHALL BE MAINTAINED AND REMAIN IN PLACE UNTIL CONSTRUCTION IS COMPLETED.
11. CONTRACTOR SHALL IMPLEMENT HOUSEKEEPING PRACTICES AS FOLLOWS:
- A. SOLID WASTE MANAGEMENT:  
PROVIDE DESIGNATED WASTE COLLECTION AREAS AND CONTAINERS. ARRANGE FOR REGULAR REMOVAL AND DISPOSAL. CLEAR SITE OF TRASH INCLUDING ORGANIC DEBRIS, PACKAGING MATERIALS, SCRAP OR SURPLUS BUILDING MATERIALS AND DOMESTIC WASTE DAILY.
- B. MATERIAL DELIVERY AND STORAGE:  
PROVIDE A DESIGNATED MATERIAL STORAGE AREA WITH SECONDARY CONTAINMENT SUCH AS BERMING. STORE MATERIAL ON PALLETS AND PROVIDE COVERING FOR SOLUBLE MATERIALS. RELOCATE STORAGE AREA INTO BUILDING SHELL WHEN POSSIBLE. INSPECT AREA WEEKLY.
- C. CONCRETE WASTE:  
PROVIDE A DESIGNATED AREA FOR A TEMPORARY PIT TO BE USED FOR CONCRETE TRUCK WASH-OUT. DISPOSE OF HARDENED CONCRETE OFFSITE. AT NO TIME SHALL A CONCRETE TRUCK DUMP ITS WASTE AND CLEAN ITS TRUCK INTO THE CITY STORM DRAINS VIA CURB AND GUTTER. INSPECT DAILY TO CONTROL RUNOFF, AND WEEKLY FOR REMOVAL OF HARDENED CONCRETE.
- D. PAINT AND PAINTING SUPPLIES:  
PROVIDE INSTRUCTION TO EMPLOYEES AND SUBCONTRACTORS REGARDING REDUCTION OF POLLUTANTS INCLUDING MATERIAL STORAGE, USE, AND CLEAN UP. INSPECT SITE WEEKLY FOR EVIDENCE OF IMPROPER DISPOSAL.
- E. VEHICLE FUELING, MAINTENANCE AND CLEANING:  
PROVIDE A DESIGNATED FUELING AREA WITH SECONDARY CONTAINMENT SUCH AS BERMING. DO NOT ALLOW MOBILE FUELING OF EQUIPMENT. PROVIDE EQUIPMENT WITH DRIP PANS. RESTRICT ONSITE MAINTENANCE AND CLEANING OF EQUIPMENT TO A MINIMUM. INSPECT AREA WEEKLY.
- F. HAZARDOUS WASTE MANAGEMENT:  
PREVENT THE DISCHARGE OF POLLUTANTS FROM HAZARDOUS WASTES TO THE DRAINAGE SYSTEM THROUGH PROPER MATERIAL USE, WASTE DISPOSAL AND TRAINING OF EMPLOYEES. HAZARDOUS WASTE PRODUCTS COMMONLY FOUND ON-SITE INCLUDE BUT ARE NOT LIMITED TO PAINTS & SOLVENTS, PETROLEUM PRODUCTS, FERTILIZERS, HERBICIDES & PESTICIDES, SOIL STABILIZATION STABILIZATION PRODUCTS, ASPHALT PRODUCTS AND CONCRETE CURING PRODUCTS.

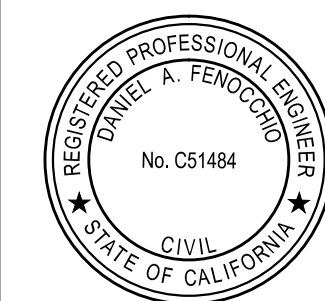
LEGEND

PROPOSED	EXISTING

ABBREVIATIONS

A.B.	AGGREGATE BASE
A.C.	ASPHALT CONCRETE
BSM	BIORETENTION SOIL MEDIA
BTS	BIORETENTION TOP SOIL
ELEV	ELEVATION
EX	EXISTING
FG	FINISH GRADE
FL	FLOWLINE
FS	FINISH SURFACE
GR	GRATE
INV	INVERT
LF	LINEAR FEET
LP	LOW POINT
MA	MATCH EXISTING ELEVATION
MAX	MAXIMUM
MIN	MINIMUM
NTS	NOT TO SCALE
O.C.	ON CENTER
PCC	PORTLAND CEMENT CONCRETE
PVC	POLYVINYL CHLORIDE PIPE
R	RADIUS
S	SLOPE
SD	STORM DRAIN
TB	TOP OF BENCH
TW	TOP OF WALL
TYP	TYPICAL

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DATE:	4/24/2015
JOB NO:	1432.01