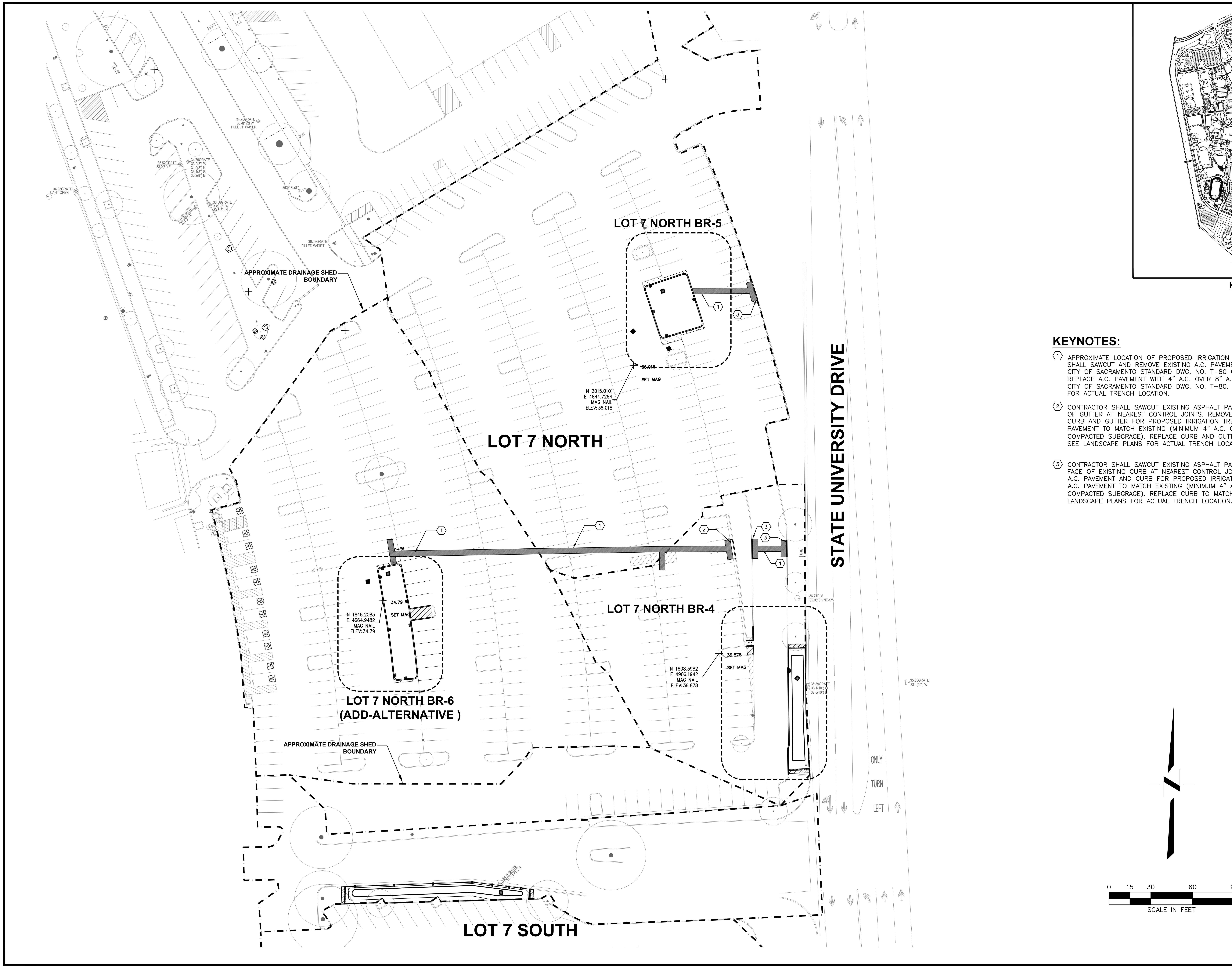

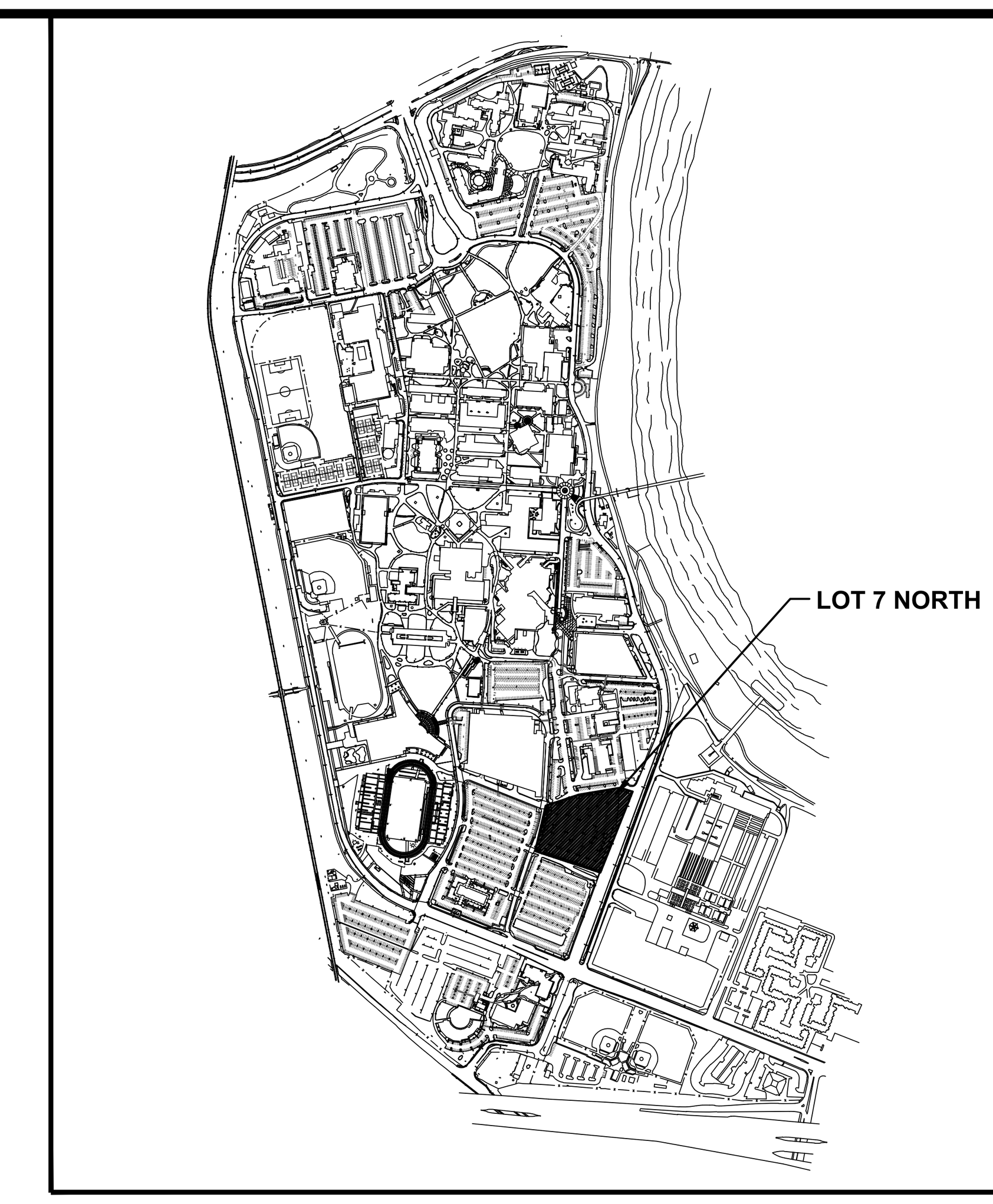

KEY MAP
NTS

KEYNOTES:

1. APPROXIMATE LOCATION OF PROPOSED IRRIGATION TRENCH. CONTRACTOR SHALL SAWCUT AND REMOVE EXISTING A.C. PAVEMENT IN ACCORDANCE WITH CITY OF SACRAMENTO STANDARD DWG. NO. T–80 ON SHEET L7N–C8. REPLACE A.C. PAVEMENT WITH 4" A.C. OVER 8" A.B. IN ACCORDANCE IWTH CITY OF SACRAMENTO STANDARD DWG. NO. T–80. SEE LANDSCAPE PLANS FOR ACTUAL TRENCH LOCATION.

2. CONTRACTOR SHALL SAWCUT EXISTING ASPHALT PAVEMENT 4 FEET FROM LIP OF GUTTER AT NEAREST CONTROL JOINTS. REMOVE EXISTING A.C. PAVEMENT, CURB AND GUTTER FOR PROPOSED IRRIGATION TRENCH. REPLACE A.C. PAVEMENT TO MATCH EXISTING (MINIMUM 4" A.C. OVER 8" A.B. OVER COMPACTED SUBGRAGE). REPLACE CURB AND GUTTER TO MATCH EXISTING. SEE LANDSCAPE PLANS FOR ACTUAL TRENCH LOCATION.

3. CONTRACTOR SHALL SAWCUT EXISTING ASPHALT PAVEMENT 4 FEET FROM FACE OF EXISTING CURB AT NEAREST CONTROL JOINTS. REMOVE EXISTING A.C. PAVEMENT AND CURB FOR PROPOSED IRRIGATION TRENCH. REPLACE A.C. PAVEMENT TO MATCH EXISTING (MINIMUM 4" A.C. OVER 8" A.B. OVER COMPACTED SUBGRAGE). REPLACE CURB TO MATCH EXISTING. SEE LANDSCAPE PLANS FOR ACTUAL TRENCH LOCATION.

DATE SIGNED: ________
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REGISTERED PROFESSIONAL ENGINEER · DANIEL A. FENOCCHIO · No. C51484 · CIVIL · STATE OF CALIFORNIA

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SCALE 1" = 30'

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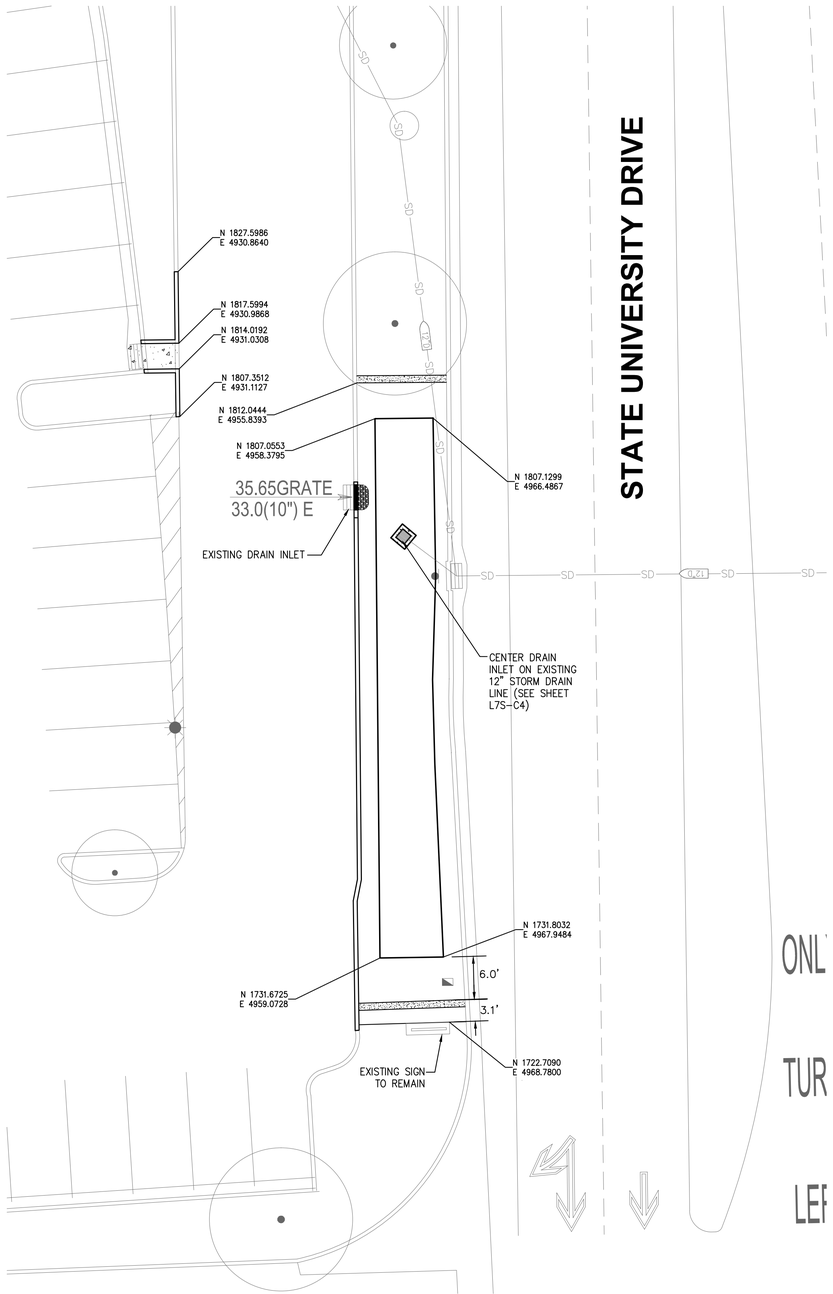
CONSTRUCTION DOCUMENTS
CSUS LID STORMWATER SYSTEM
LOT 7 NORTH SITE PLAN

CALIFORNIA STATE UNIVERSITY, SACRAMENTO   CALIFORNIA

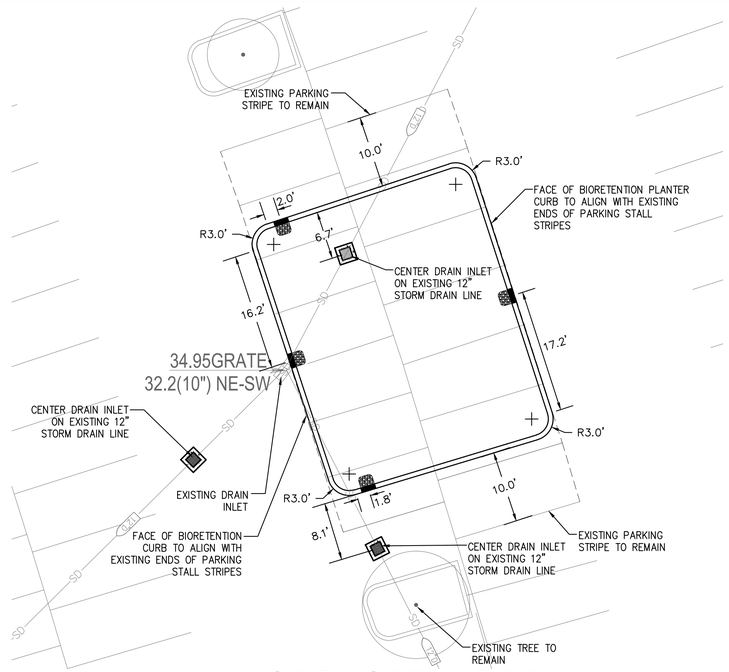
SHEET
L7N-C1
OF
8

DATE: 4/24/2015
JOB NO: 1432.01



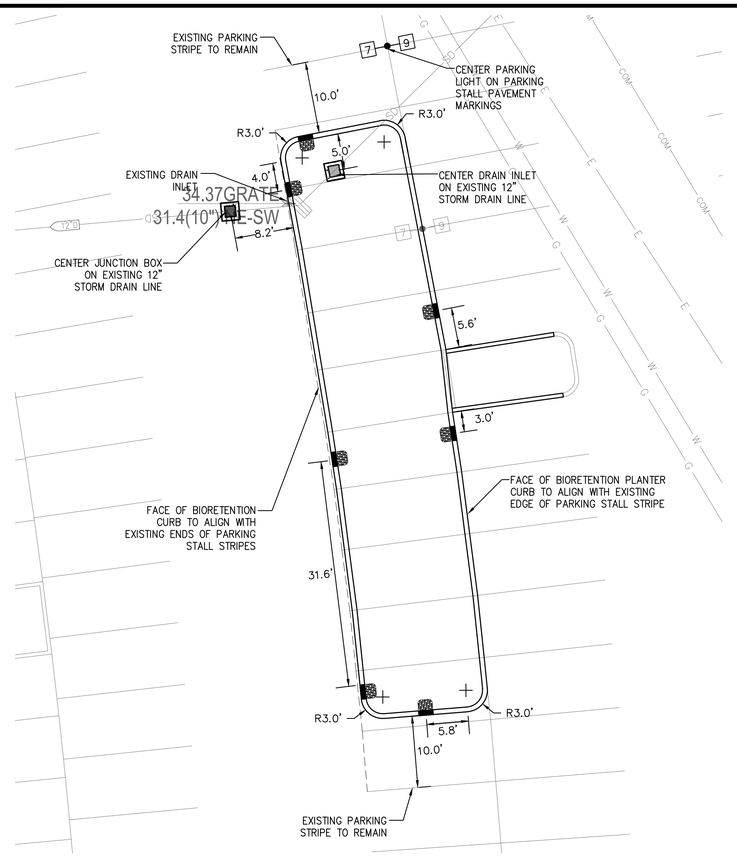
LOT 7 NORTH - BR-4

BIORETENTION PLANTER 1"=10'



LOT 7 NORTH - BR-5

BIORETENTION PLANTER 1"=10'

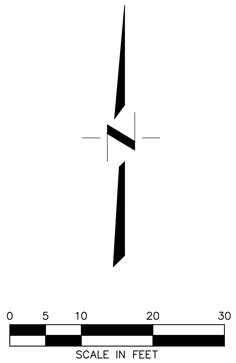


LOT 7 NORTH - BR-6 (ADD ALTERNATIVE)

BIORETENTION PLANTER 1"=10'

NOTES

1. REFER TO SHEET L7N-C1 SITE PLAN FOR SITE CONTROL.
2. BIORETENTION PLANTER CONTROL BASED ON DIMENSIONS FROM EXISTING PAVEMENT MARKINGS AS SHOWN.



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CONSTRUCTION DOCUMENTS
CSUS LID STORMWATER SYSTEM
LOT 7 NORTH HORIZONTAL CONTROL PLAN

CALIFORNIA

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DANIEL A. FENOGLIO
No. C51484
CIVIL
STATE OF CALIFORNIA

SHEET L7N-C2
OF 8
DATE: 4/24/2015
JOB NO: 1432.01

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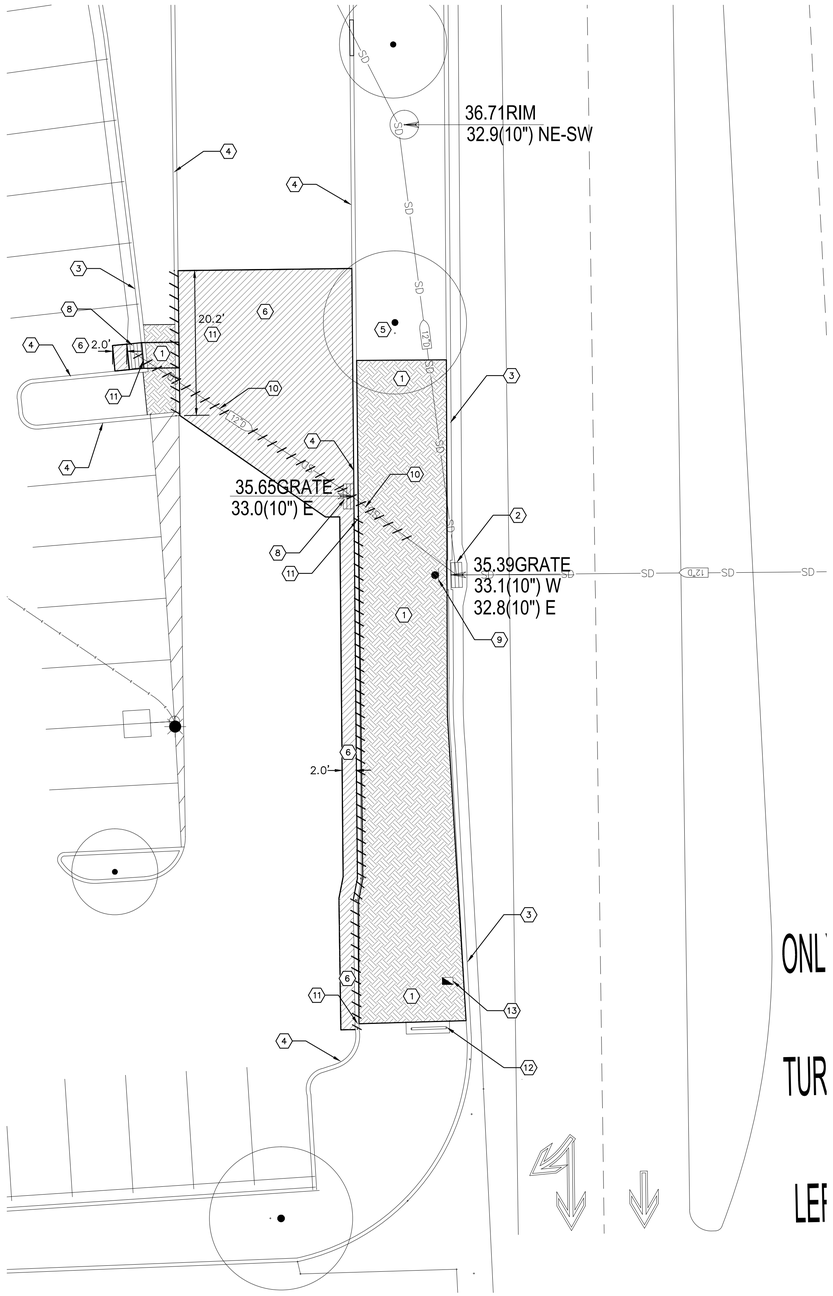
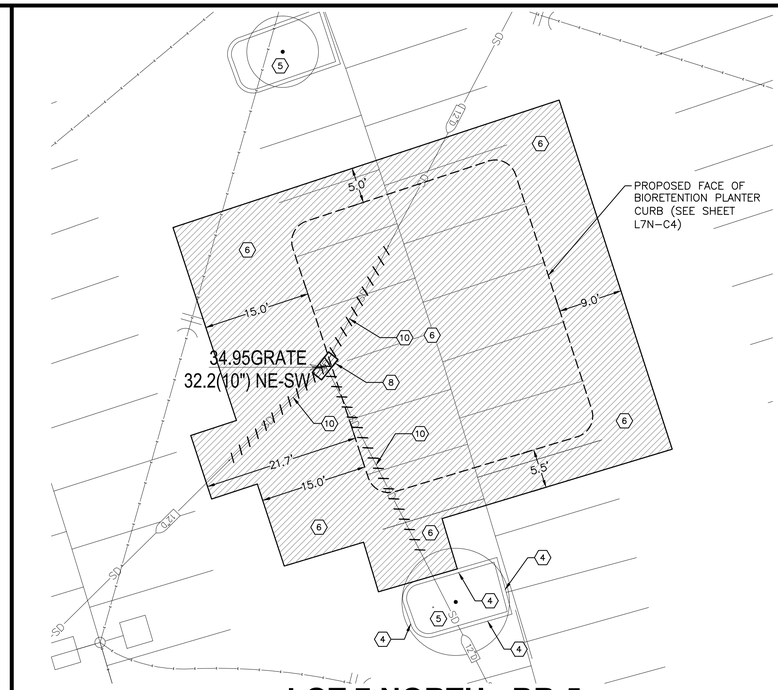
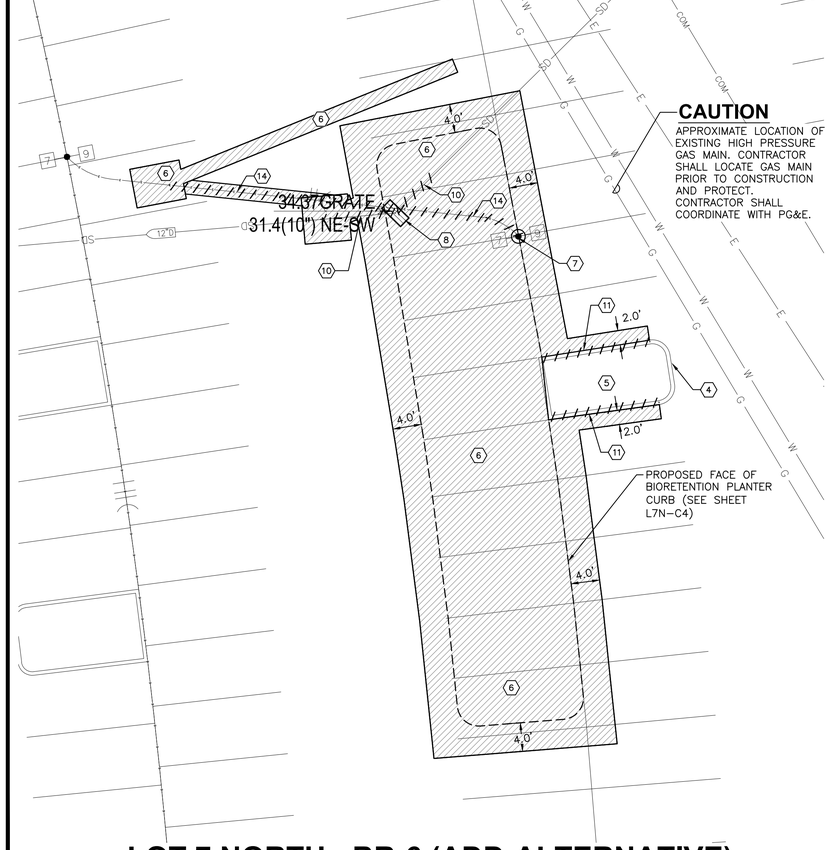


LOT 7 NORTH - BR-4
BIORETENTION PLANTER 1"=10'



LOT 7 NORTH - BR-5
BIORETENTION PLANTER 1"=10'



LOT 7 NORTH - BR-6 (ADD-ALTERNATIVE)
BIORETENTION PLANTER 1"=10'

KEYNOTES:

1. REMOVE EXISTING VEGETATION AND ADJUST EXISTING IRRIGATION SYSTEM. REFER TO LANDSCAPE PLANS IRRIGATION IMPROVEMENTS.
2. EXISTING DRAIN INLET TO REMAIN
3. EXISTING CURB AND GUTTER TO REMAIN.
4. EXISTING BARRIER CURB TO REMAIN.
5. EXISTING TREE TO REMAIN. REFER TO SHEET T–3 FOR TREE PROTECTION NOTES.
6. SAWCUT AND REMOVE EXISTING A.C. PAVEMENT TO MINIMUM LIMITS SHOWN.
7. RELOCATE EXISTING PARKING LIGHT. SEE SHEET L7N–C4 FOR RELOCATION IMPROVEMENTS.
8. REMOVE EXISTING DRAIN INLET.
9. EXISTING SIGN. IF IN CONFLICT WITH PROPOSED IMPROVEMENTS CONTRACTOR SHALL TEMPORARILY REMOVE SIGN DURING CONSTRUCTION AND RE–INSTALL AT CONCLUSION OF WORK.
10. REMOVE EXISTING STORM DRAIN LINE TO LIMITS SHOWN.
11. REMOVE EXISTING BARRIER CURB TO LIMITS SHOWN.
12. EXISTING SIGN TO REMAIN.
13. EXISTING TRAFFIC SIGNAL BOX. ADJUST TO FINAL GRADE.
14. REMOVE EXISTING PARKING LIGHT CONDUIT AND CONDUCTORS TO LIMITS SHOWN. SEE PARKING LIGHT IMPROVEMENTS ON SHEET L7N–C4.

NOTES:

1. INTENT OF DEMOLITION PLAN IS TO PROVIDE GENERAL SITE DEMOLITION REQUIREMENTS TO CONTRACTOR. PLAN IS NOT INTENDED TO PROVIDE DETAILED INFORMATION ON SITE REMOVAL, PROTECTION AND PHASING. CONTRACTOR SHALL BE RESPONSIBLE FOR PERFORMING SITE VISITS TO DEVELOP A DETAILED DEMOLITION PLAN IN ACCORDANCE WITH THE PROPOSED SITE IMPROVEMENTS.
2. SITE DEMOLITION INCLUDES:
   - REMOVE EXISTING ASPHALT PAVEMENT AND CONCRETE CURB.
   - REMOVE EXISTING DRAIN INLET AND STORM DRAIN LINE.
   - REMOVE EXISTING TREE INCLUDING ROOTS.
   - REMOVE/ADJUST EXISTING ABOVE GROUND AND UNDERGROUND IRRIGATION FACILITIES. COORDINATE EXTENT OF IMPROVEMENTS WITH LANDSCAPE PLANS.
   - REMOVE EXISTING PARKING LIGHT ELECTRICAL WIRE AND CONDUIT.
   - RELOCATION OF EXISTING PARKING LIGHT. INCLUDES COMPLETE REMOVAL OF EXISTING CONCRETE BASE.
3. CONTRACTOR SHALL DISPOSE OF ALL MATERIALS PROPERLY OFFSITE.
4. LIMITS OF REMOVAL SHOWN ON THESE PLANS ARE APPROXIMATE. CONTRACTOR SHALL MODIFY LIMITS OF DEMOLITION AS NECESSARY TO PROVIDE FOR NEW CONSTRUCTION, BASED ON CONTRACTOR'S METHOD OF CONSTRUCTION.
5. CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL FLAGGING FOR VEHICULAR INGRESS/EGRESS.
6. PROJECT VEHICULAR AND PEDESTRIAN ACCESS PLAN SHALL BE PREPARED BY CONTRACTOR.
7. THE TYPES, LOCATIONS, SIZES AND/OR DEPTHS OF EXISTING UTILITIES 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 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 IS UNKNOWN.
8. SEE SHEET L7N–C1 FOR IRRIGATION TRENCH IMPROVEMENTS.

0 5 10 20 30
SCALE IN FEET

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REGISTERED PROFESSIONAL ENGINEER
DANIEL A. FENOCCHIO
No. C51484
CIVIL
STATE OF CALIFORNIA

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CONSTRUCTION DOCUMENTS
CSUS LID STORMWATER SYSTEM
LOT 7 NORTH DEMOLITION PLAN
CALIFORNIA STATE UNIVERSITY, SACRAMENTO CALIFORNIA

SHEET
L7N-C3
OF
8

DATE: 4/24/2015

JOB NO: 1432.01

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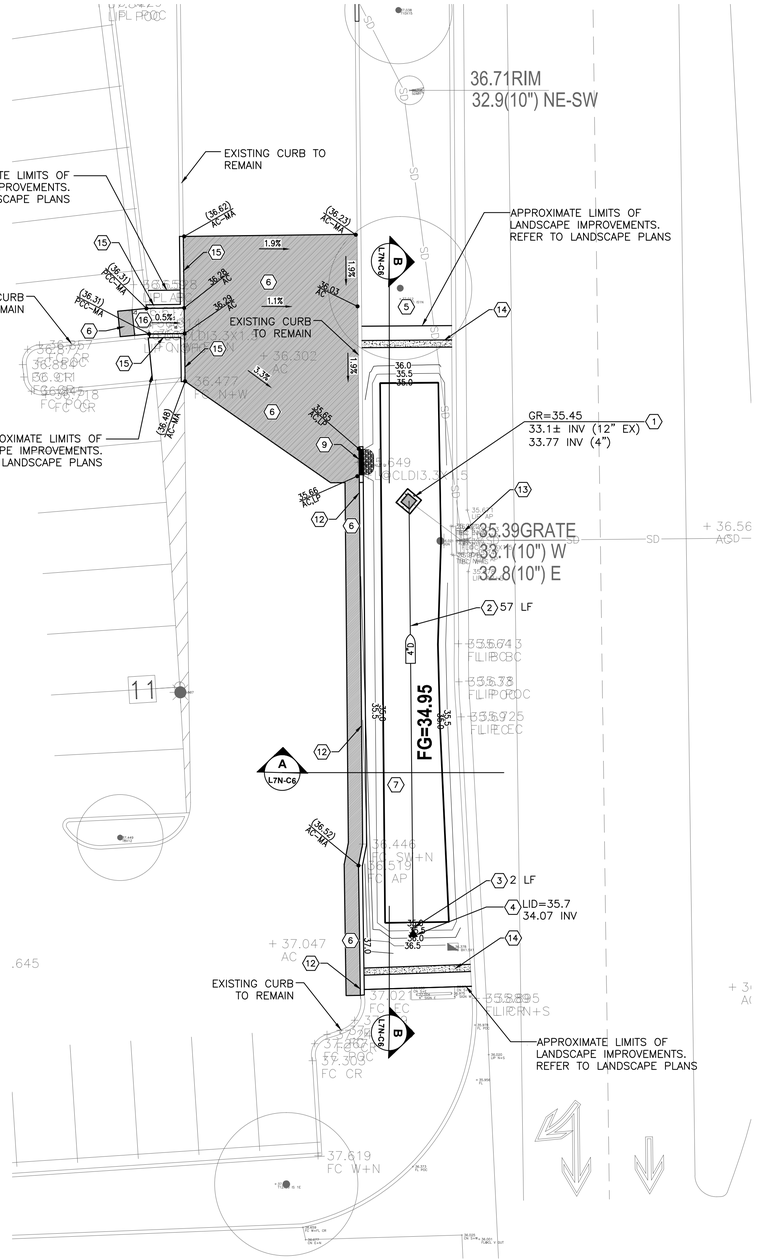
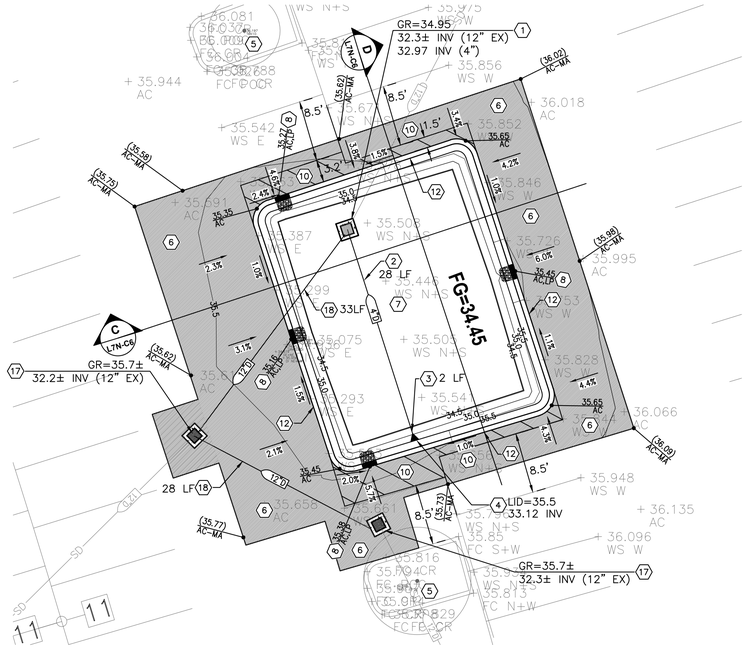


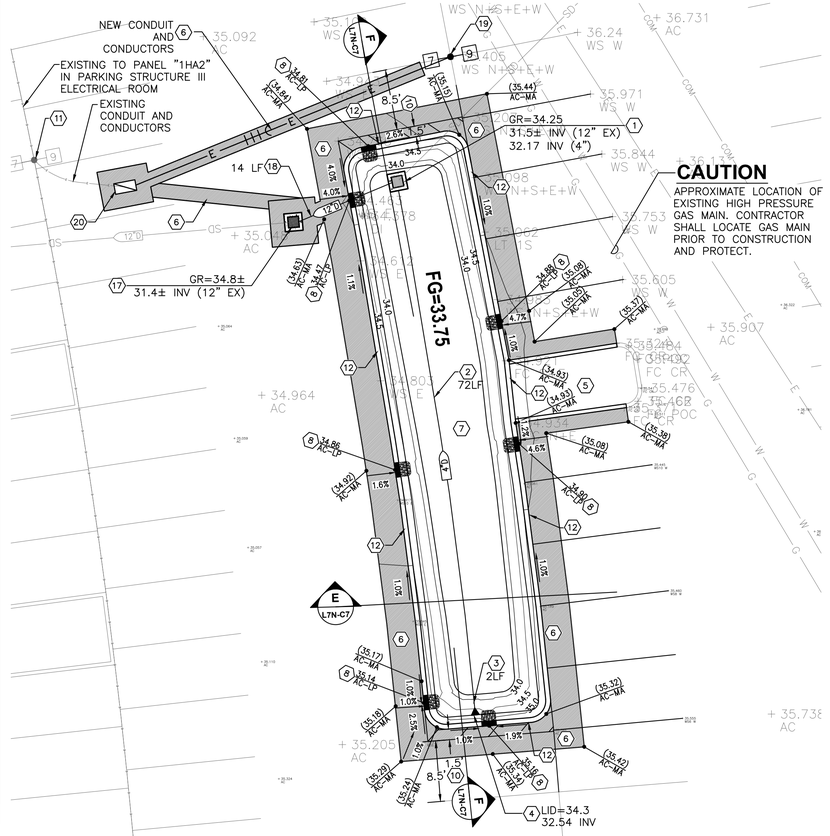
LOT 7 NORTH - BR-4

BIORETENTION PLANTER 1"=10'



LOT 7 NORTH - BR-5

BIORETENTION PLANTER 1"=10'



LOT 7 NORTH - BR-6 (ADD-ALTERNATIVE)

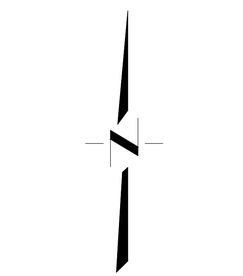
BIORETENTION PLANTER 1"=10'

KEYNOTES:

1. INSTALL NEW BIORETENTION DRAIN INLET PER DETAIL 1 ON SHEET L7N-C8.
2. INSTALL 4" PERFORATED HDPE STORM DRAIN PIPE SURROUNDED IN 6" (MINIMUM) GRAVEL @ S=0.005. LENGTH PER PLAN.
3. INSTALL 4" HDPE STORM DRAIN PIPE @ S=0.005. LENGTH PER PLAN.
4. INSTALL STORM DRAIN CLEANOUT PER DETAIL 2 ON SHEET L7N-C8.
5. EXISTING TREE TO REMAIN. SEE TREE PROTECTION NOTES ON SHEET T-3.
6. INSTALL A.C. PAVEMENT. NEW PAVEMENT SECTION TO MATCH EXISTING SECTION (MINIMUM 4" A.C. OVER 8" A.B. OVER COMPACTED SUBGRADE).
7. CONSTRUCT BIORETENTION AREA PER SECTIONS AND DETAILS.
8. INSTALL 24" WIDE BIORETENTION CURB OPENING FOR DRAINAGE PER DETAIL 3 ON SHEET L7N-C8.
9. INSTALL 36" WIDE BIORETENTION CURB OPENING FOR DRAINAGE PER DETAIL 3 ON SHEET L7N-C8.
10. PLACE NEW PAVEMENT MARKING. PROVIDE 4" WHITE HATCH LINES SPACED 3' ON CENTER WITH A 4" WHITE BORDER.
11. EXISTING LIGHT TO REMAIN. CONTRACTOR SHALL PROTECT DURING CONSTRUCTION.
12. INSTALL BIORETENTION PLANTER CURB PER DETAIL 4 ON SHEET L7N-C8.
13. EXISTING DRAIN INLET TO REMAIN.
14. MOW CURB. SEE LANDSCAPE PLANS.
15. INSTALL BARRIER CURB PER DETAIL 5 ON SHEET L7N-C8.
16. INSTALL 42" P.C.C. GUTTER PASS THROUGH FOR DRAINAGE. PLACE 6" P.C.C. OVER 6" A.B. OVER COMPACTED SUBGRADE.
17. INSTALL US CONCRETE PRECAST CB1818 DRAIN INLET WITH TRAFFIC RATED SOLID FRAME AND GRATE. MATCH NEW GRATE TO EXISTING A.C. ELEVATION.
18. INSTALL 12" PVC SDR-35 STORM DRAIN LINE. REFER TO CITY OF SACRAMENTO DETAIL T-80 ON SHEET L7N-C8 FOR UTILITY TRENCH DETAILS. LENGTH PER PLAN.
19. INSTALL RELOCATED STREET LIGHT. PROVIDE NEW REPLACEMENT ANCHOR BOLTS, NUTS AND WASHERS. SEE DETAIL 6 ON SHEET L7N-C8.
20. INTERCEPT EXISTING CONDUIT AND CONDUCTORS. EXTEND CONDUIT AND 3 # 8 AWG, AND 1 # 8 GROUND TO NEW POLE LOCATION AND CONNECT. MATCH EXISTING CONDUCTOR TYPE AND JACKET COLOR. PROVIDE NEW TRAFFIC RATED 3-1/2 PULL BOX PER HANDHOLE DETAIL 7 ON SHEET L7N-C8.

NOTES:

1. CONTRACTOR SHALL ADJUST ALL EXISTING UTILITY STRUCTURES (SHOWN AND NOT SHOWN) TO FINAL GRADE. CONTRACTOR SHALL PERFORM SITE WALK PRIOR TO CONSTRUCTION TO VERIFY ALL EXISTING UTILITY STRUCTURE LOCATIONS. COST OF UTILITY STRUCTURE ADJUSTMENT SHALL BE INCLUDED IN BASE BID.
2. THE TYPES, LOCATIONS, SIZES AND/OR DEPTHS OF EXISTING UTILITIES 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 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 IS UNKNOWN.
3. LIMITS OF A.C. PAVEMENT REMOVAL AND REPLACEMENT SHOWN ON THESE PLANS ARE APPROXIMATE. CONTRACTOR SHALL CONFIRM EXISTING MATCH GRADES AND EXTEND LIMITS OF REMOVAL AND REPLACEMENT AS NEEDED BASED ON ACTUAL FIELD CONDITIONS IN ORDER TO PROVIDE POSITIVE DRAINAGE TOWARDS BMP AREAS AT A MINIMUM SLOPE OF 1%.
4. CONTRACTOR SHALL REPLACE ALL LANDSCAPE AREAS DISTURBED DURING CONSTRUCTION.
5. ALL ASPHALT SURFACE REPAIR OVER UTILITY TRENCH IMPROVEMENTS SHALL BE PERFORMED IN ACCORDANCE WITH CITY OF SACRAMENTO STANDARD DWG. NO. T-80 ON SHEET L7N-C8.
6. CONTRACTOR SHALL REPLACE ALL EXISTING PAVEMENT MARKINGS DISTURBED DURING CONSTRUCTION IN KIND.
7. CONTRACTOR SHALL COORDINATE ALL IMPROVEMENTS WITH IRRIGATION ROUTING.
8. SEE SHEET L7N-C1 FOR IRRIGATION TRENCH IMPROVEMENTS.



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REGISTERED PROFESSIONAL ENGINEER DANIEL A. FERDOCIO No. C51484 CIVIL STATE OF CALIFORNIA

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CONSTRUCTION DOCUMENTS
CSUS LID STORMWATER SYSTEM
LOT 7 NORTH IMPROVEMENT PLAN
CALIFORNIA STATE UNIVERSITY, SACRAMENTO CALIFORNIA

SHEET
L7N-C4
OF
8

DATE: 4/24/2015

JOB NO: 1432.01

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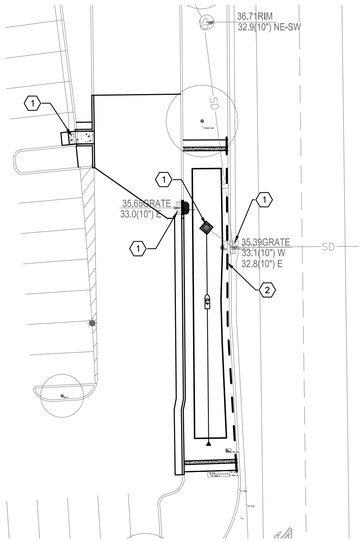
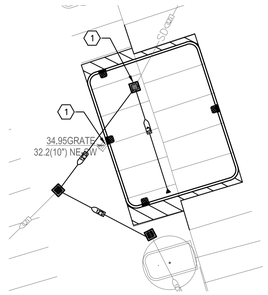


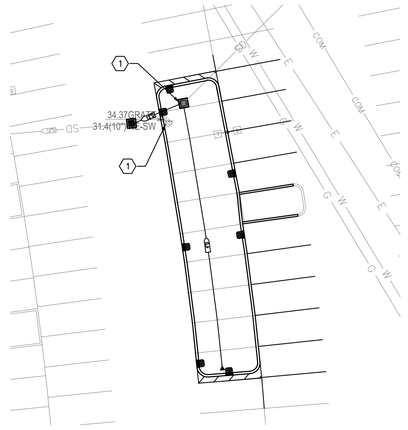
LOT 7 NORTH - BR-4

BIORETENTION PLANTER 1"=20'



LOT 7 NORTH - BR-5

BIORETENTION PLANTER 1"=20'



LOT 7 NORTH - BR-6 (ADD-ALTERNATIVE)

BIORETENTION PLANTER **1"=20'**

KEYNOTES

1. INSTALL STORM DRAIN INLET SEDIMENT CONTROL AND FILTER BAG PER CITY OF SACRAMENTO STANDARD DWG. NOs. Q-20 & Q-30.
2. INSTALL FIBER ROLLS PER CITY OF SACRAMENTO STANDARD DWG. NO. Q-40.

NOTES

1. REFER TO SHEET T-3 FOR EROSION CONTROL NOTES.
2. CONTRACTOR SHALL PROVIDE CONCRETE WASHOUT AREA PER CITY OF SACRAMENTO STANDARD DWG. NO. Q-80. CONTRACTOR SHALL COORDINATE LOCATION WITH CSUS REPRESENTATIVE PRIOR TO CONSTRUCTION.
3. CONTRACTOR SHALL COORDINATE WITH CSUS REPRESENTATIVE FOR MATERIAL STORAGE LOCATION PRIOR TO CONSTRUCTION.

0 10 20 40 60
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SCALE 1" = 20'

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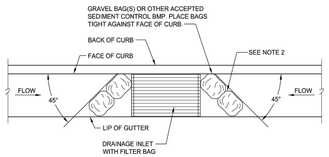
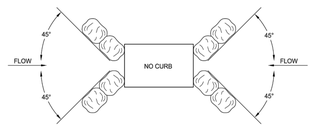
CONSTRUCTION DOCUMENTS
CSUS LID STORMWATER SYSTEM
LOT 7 NORTH EROSION CONTROL PLAN

CALIFORNIA STATE UNIVERSITY, SACRAMENTO CALIFORNIA



PLAN VIEW



NOTES:

1.- SEDIMENT TRAPPED UPSTREAM OF SEDIMENT CONTROL BMP SHALL BE REMOVED WEEKLY AND PRIOR TO A RAINFALL EVENT.

2.- PLACE BMPS TIGHTLY TOGETHER AT JOINTS TO PREVENT OR MINIMIZE SEEPAGE AT JOINTS.

3.- INLET SEDIMENT CONTROL MUST BE INSPECTED WEEKLY AND AFTER EACH STORM, AND REPAIRED OR REPLACED AS NEEDED.

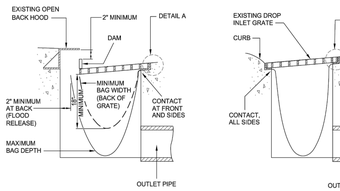
4.- INLET SEDIMENT CONTROL IS REQUIRED FOR ALL D's IN ADDITION TO A STORM DRAIN INLET FILTER BAG.

REV.	DATE	DESCRIPTION
1		
2		
3		

CITY OF SACRAMENTO
DEPARTMENT OF UTILITIES

INLET SEDIMENT CONTROL

APP'D BY: DATE: MAY 2007 NO SCALE DWG. NO. Q - 20



NOTES:

1.- THE MAXIMUM DRAINAGE AREA PER FILTER SHALL BE NO MORE THAN 2 ACRES.

2.- THE FILTER BAG SHALL BE MANUFACTURED FROM UV RESISTANT POLYPROPYLENE, NYLON, POLYESTER, OR ETHYLENE FABRIC WITH A MINIMUM TENSILE STRENGTH OF 50 LBS PER LINEAL FOOT, AN EQUIVALENT OPENING SIZE NOT GREATER THAN 20 SIEVE AND WITH A MINIMUM FLOW RATE OF 40 GALLONS/MINUTE/SQ FT.

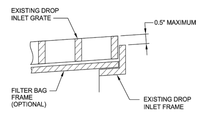
3.- THE FILTER BAG MAY BE SUSPENDED FROM OR HELD IN PLACE BY THE EXISTING INLET GRATE (OR OTHER APPROVED METHOD), PROVIDING NO MODIFICATION OR DAMAGE SHALL BE DONE TO THE INLET GRATE OR FRAME. THE INLET GRATE SHALL NOT BE CAUSED TO REST MORE THAN 0.5" ABOVE THE INLET FRAME (SEE DETAIL A).

4.- THE FILTER BAG MAY EXTEND TO THE BOTTOM OF THE INLET BOX PROVIDED THE OUTLET PIPE IS UNOBSTRUCTED.

5.- FLOWS SHALL NOT BE ALLOWED TO BYPASS THE BAG. THE BAG OR ITS FRAME SHALL CATCH FLOWS AT ALL SIDES OF THE INLET, EXCEPT AS SHOWN FOR FLOOD RELEASE.

6.- INLET FILTER BAGS SHALL BE INSPECTED WEEKLY AND AFTER EACH RAINFALL DURING THE WET SEASON AND MONTHLY DURING THE DRY SEASON. SEDIMENT AND DEBRIS SHALL BE REMOVED BEFORE ACCUMULATIONS HAVE REACHED ONE THIRD THE DEPTH OF THE BAG. BAGS SHALL BE REPAIRED OR REPLACED AS SOON AS DAMAGE OCCURS.

7.- THIS DETAIL IS SCHEMATIC AND MUST BE ADJUSTED FOR DIFFERENT DI TYPES.



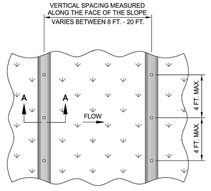
DETAIL A

REV.	DATE	DESCRIPTION
1		
2		
3		

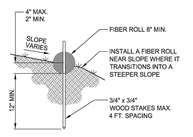
CITY OF SACRAMENTO
DEPARTMENT OF UTILITIES

STORM DRAIN INLET FILTER BAG

APP'D BY: DATE: MAY 2007 NO SCALE DWG. NO. Q - 30



TYPICAL FIBER ROLL INSTALLATION



SECTION A - A

NOTES:

1.- INSTALL FIBER ROLLS IN A ROW ALONG A LEVEL CONTOUR.

2.- AT ENDS OF A ROW TURN THE LAST TWO FEET UP SLOPE SLIGHTLY.

3.- FIBER ROLLS SHALL BE BUTTED TIGHTLY AT THE JOINTS.

4.- DO NOT OVERLAP JOINTS.

5.- FIBER ROLLS SHALL BE INSPECTED WEEKLY AND AFTER STORMS, AND REPAINTED OR REPLACED AS NEEDED.

REV.	DATE	DESCRIPTION
1		
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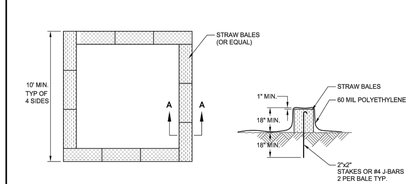
3		

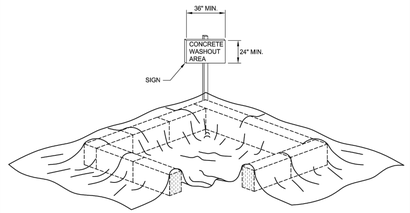
CITY OF SACRAMENTO
DEPARTMENT OF UTILITIES

FIBER ROLLS

APP'D BY: DATE: MAY 2007 NO SCALE DWG. NO. Q - 40



BALE CONFIGURATION SECTION A-A



THIS SECTION REMOVED FOR GRAPHICAL REPRESENTATION ONLY. STRAW BALE PERIMETER SHALL BE CONTINUOUS.

NOTES:

1.- FACE SIGN TOWARD NEAREST STREET OR ACCESS POINT

2.- CONCRETE WASHOUT SHALL BE LOCATED BEHIND CURB AND 50 FT. MINIMUM FROM DRAINAGE INLETS OR WATERCOURSES

REV.	DATE	DESCRIPTION
1		
2		
3		

CITY OF SACRAMENTO
DEPARTMENT OF UTILITIES

CONCRETE WASHOUT

APP'D BY: DATE: MAY 2007 NO SCALE DWG. NO. Q - 80

DATE SIGNED: _____

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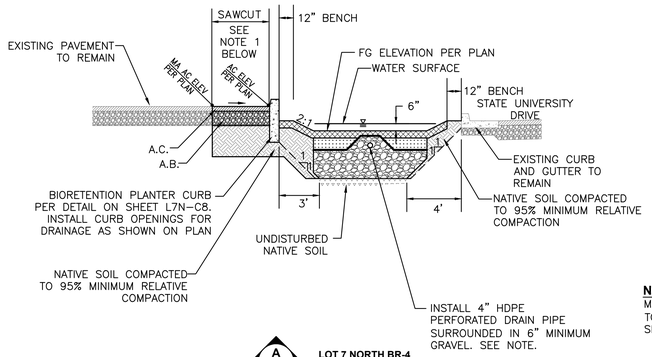
REGISTERED PROFESSIONAL ENGINEER
DANIEL A. FENOCCHIO
No. C51484
CIVIL
STATE OF CALIFORNIA

SHEET
L7N-C5
OF
8

DATE: 4/24/2015

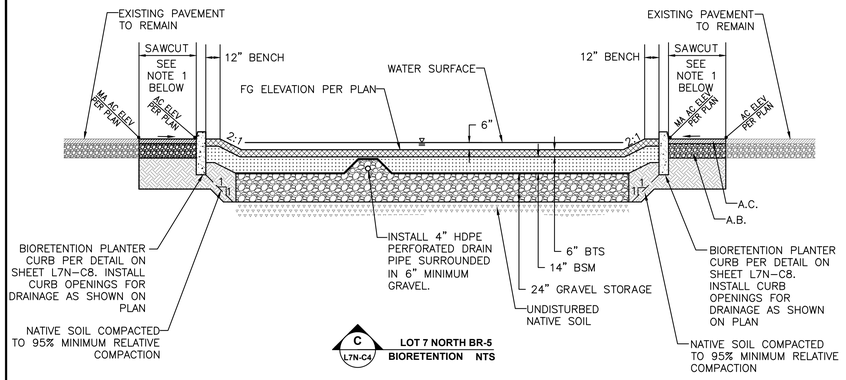
JOB NO: 1432.01

S:\Projects\1400\1432 CSUS - LID Storm Water System\AutoCAD\1432-01-CIVIL CD\SHEETS\L7N - C5 - EROS.dwg - LOT 7 N 4/15/2015 - 3:39PM Plotted by: charles

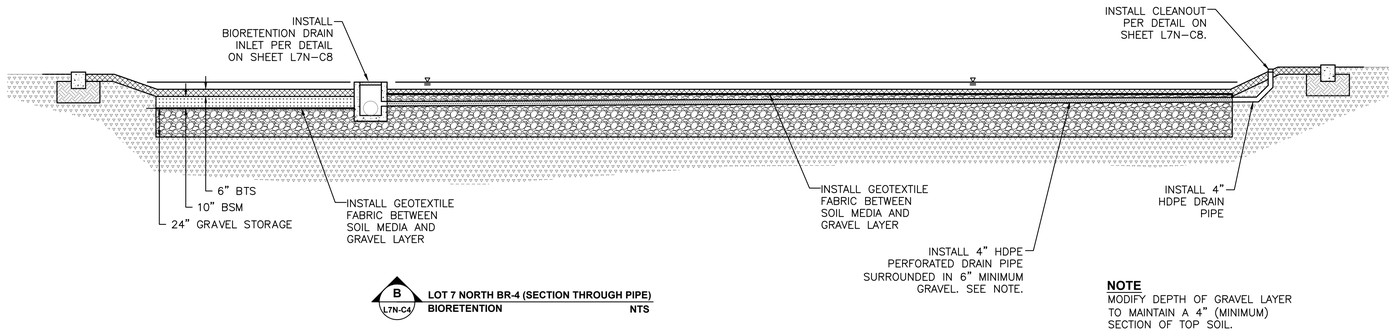


A L7N-C4 **LOT 7 NORTH BR-4 BIORETENTION NTS**

NOTE
MODIFY DEPTH OF GRAVEL LAYER TO MAINTAIN A 4" (MINIMUM) SECTION OF BTS.

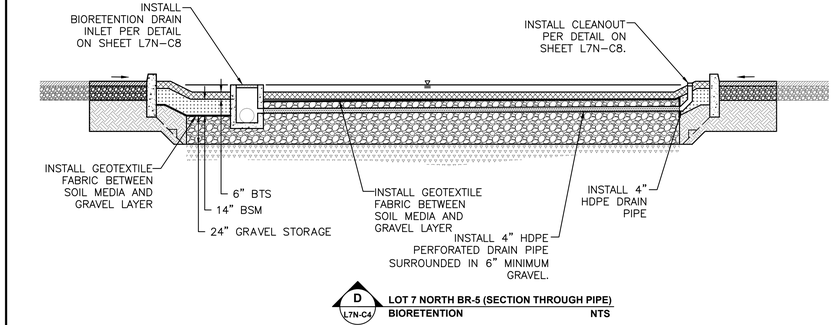


C L7N-C4 **LOT 7 NORTH BR-5 BIORETENTION NTS**

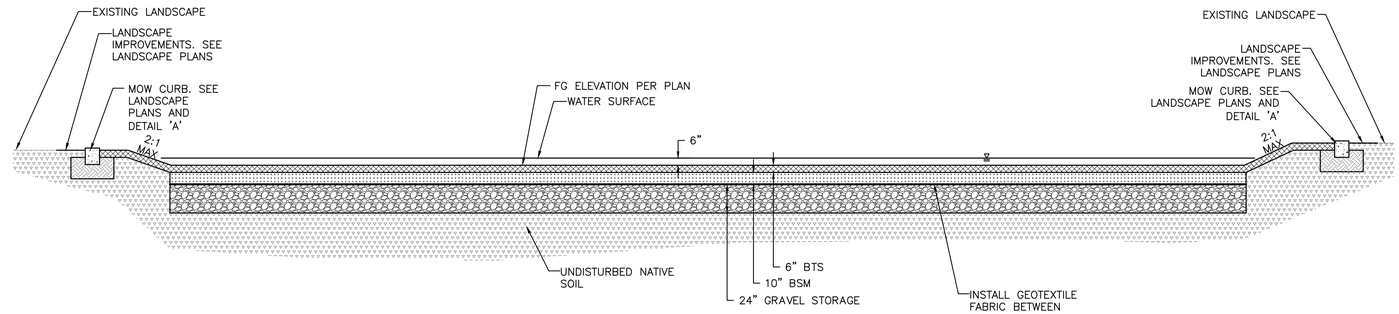


B L7N-C4 **LOT 7 NORTH BR-4 (SECTION THROUGH PIPE) BIORETENTION NTS**

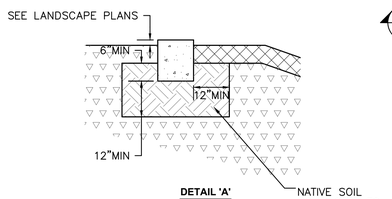
NOTE
MODIFY DEPTH OF GRAVEL LAYER TO MAINTAIN A 4" (MINIMUM) SECTION OF TOP SOIL.



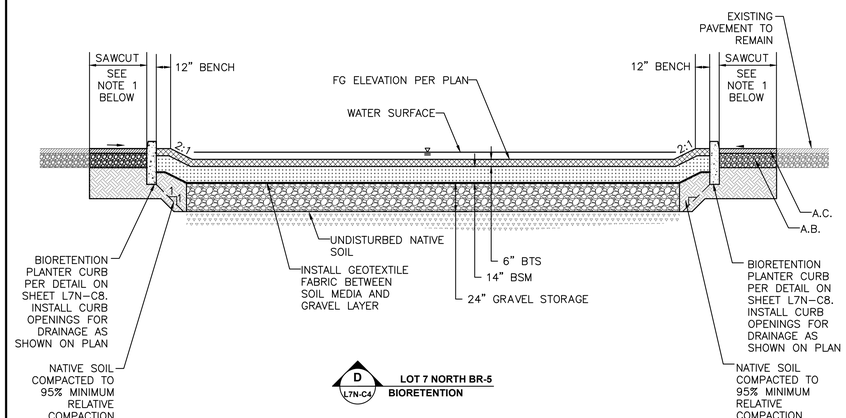
D L7N-C4 **LOT 7 NORTH BR-5 (SECTION THROUGH PIPE) BIORETENTION NTS**



B L7N-C4 **LOT 7 NORTH BR-4 BIORETENTION NTS**



DETAIL 'A'
NTS



D L7N-C4 **LOT 7 NORTH BR-5 BIORETENTION**

NOTES

1. LIMITS OF ASPHALT REMOVAL AND REPLACEMENT SHOWN ON THESE PLANS ARE APPROXIMATE. CONTRACTOR SHALL INCREASE SAWCUT LIMITS AS REQUIRED TO PROVIDE POSITIVE DRAINAGE AT A 1% MINIMUM SLOPE AND BASED ON CONTRACTORS METHOD OF CONSTRUCTION.
2. LIMITS OF LANDSCAPE REMOVAL AND REPLACEMENT SHOWN ON THESE PLANS ARE APPROXIMATE. CONTRACTOR SHALL INCREASE LIMITS AS NEEDED BASED ON ACTUAL FIELD CONDITIONS AND CONTRACTOR'S METHOD OF CONSTRUCTION.

DATE SIGNED: _____
THESE DRAWINGS ARE NOT CONSIDERED FINAL UNTIL THE ENGINEER'S SEAL BELOW HAS BEEN SIGNED AND DATED.

REGISTERED PROFESSIONAL ENGINEER
DANIEL A. FENOCCHIO
No. C51484
CIVIL
STATE OF CALIFORNIA

DESIGNED BY NC
DRAWN BY NC
CHECKED BY DF
SCALE NTS

NO.	DATE	REVISIONS	BY	APPD.

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Davis, CA 95618
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■ Sacramento Office
2120 20th Street, Suite Three
Sacramento, CA 95818
(916) 455-2026

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CALIFORNIA STATE UNIVERSITY, SACRAMENTO
CALIFORNIA

CONSTRUCTION DOCUMENTS
CSUS LID STORMWATER SYSTEM
LOT 7 NORTH SECTIONS

SHEET
L7N-C6
OF
8

DATE: 4/24/2015

JOB NO: 1432.01

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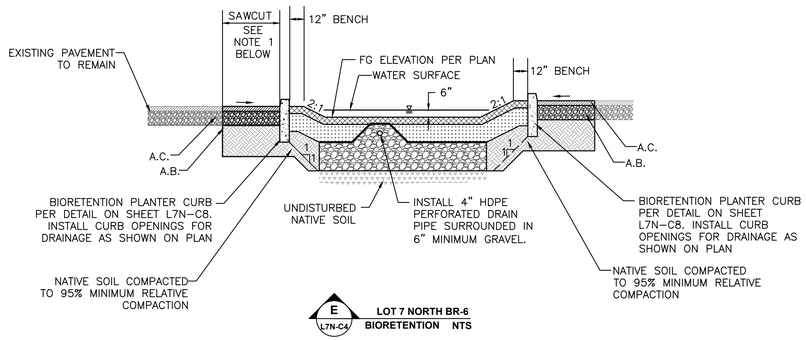
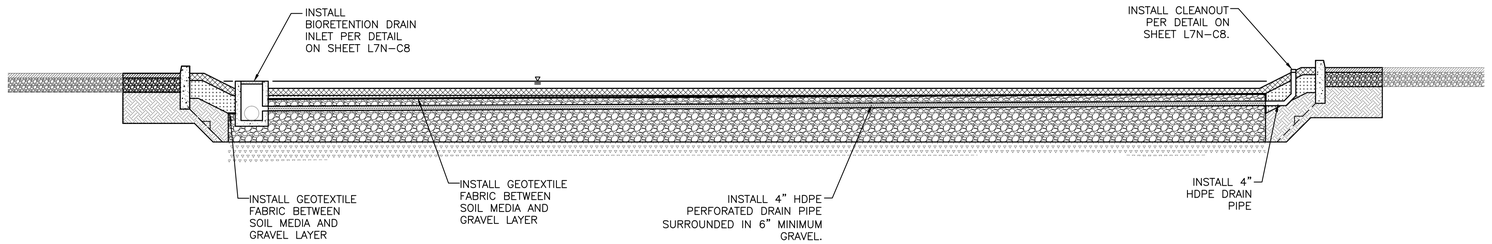
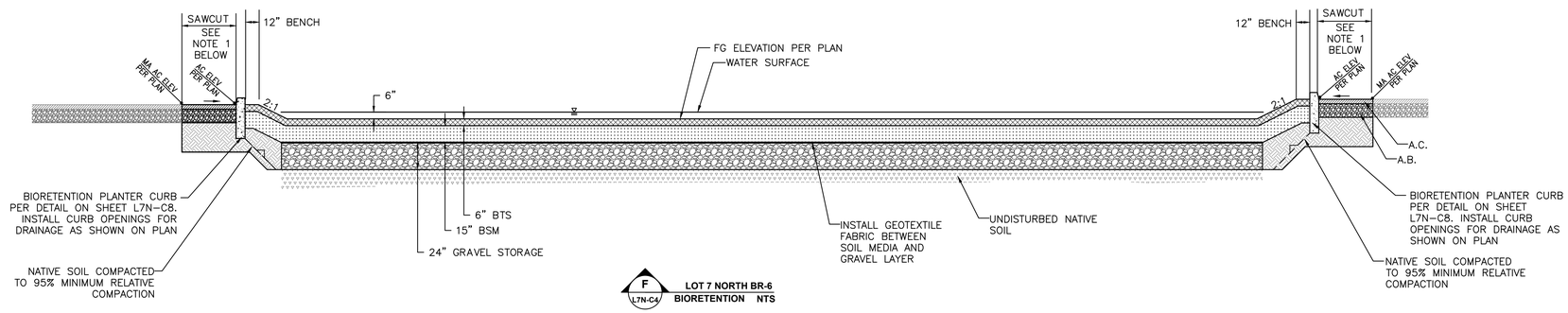


E L7N-C4 **LOT 7 NORTH BR-6 BIORETENTION NTS**



F L7N-C4 **LOT 7 NORTH BR-6 (SECTION THROUGH PIPE) BIORETENTION NTS**



F L7N-C4 **LOT 7 NORTH BR-6 BIORETENTION NTS**

NOTES

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CSUS LID STORMWATER SYSTEM
LOT 7 NORTH SECTIONS

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REGISTERED PROFESSIONAL ENGINEER DANIEL A. FENOCCHIO No. C51484 CIVIL STATE OF CALIFORNIA

SHEET
L7N-C7
OF
8

DATE: 4/24/2015

JOB NO: 1432.01

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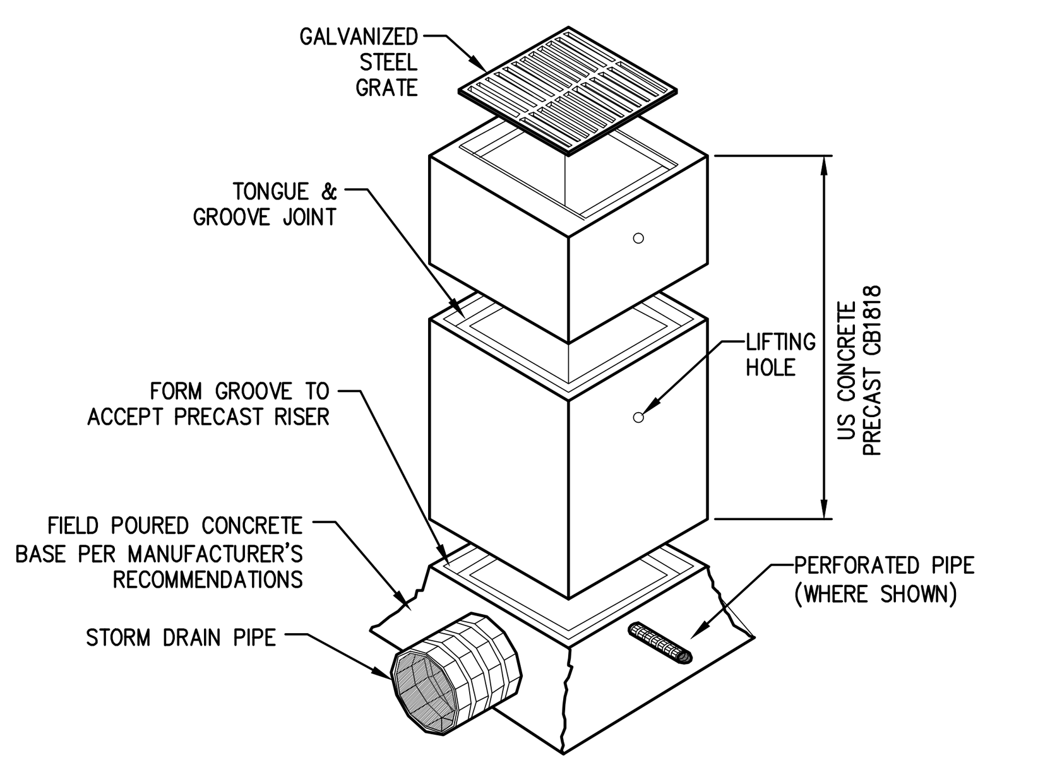
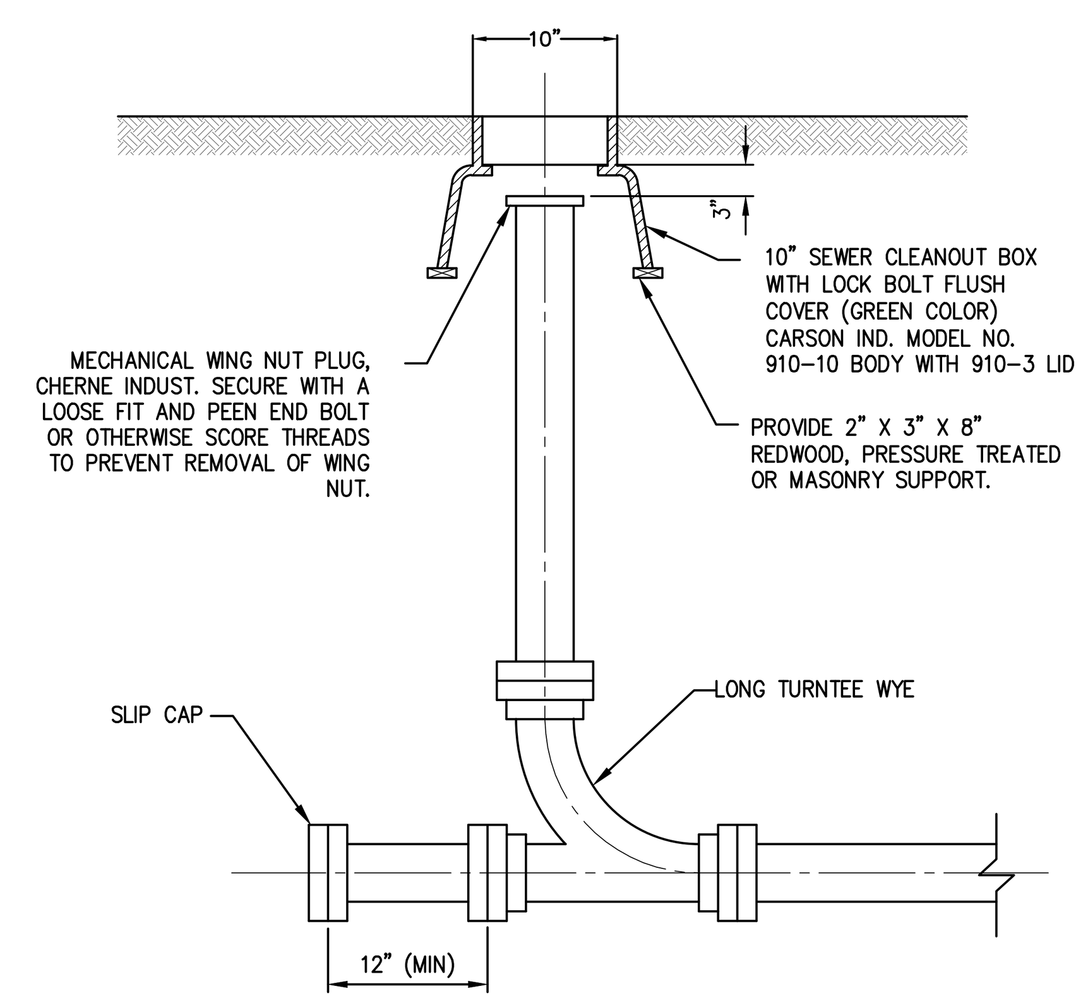
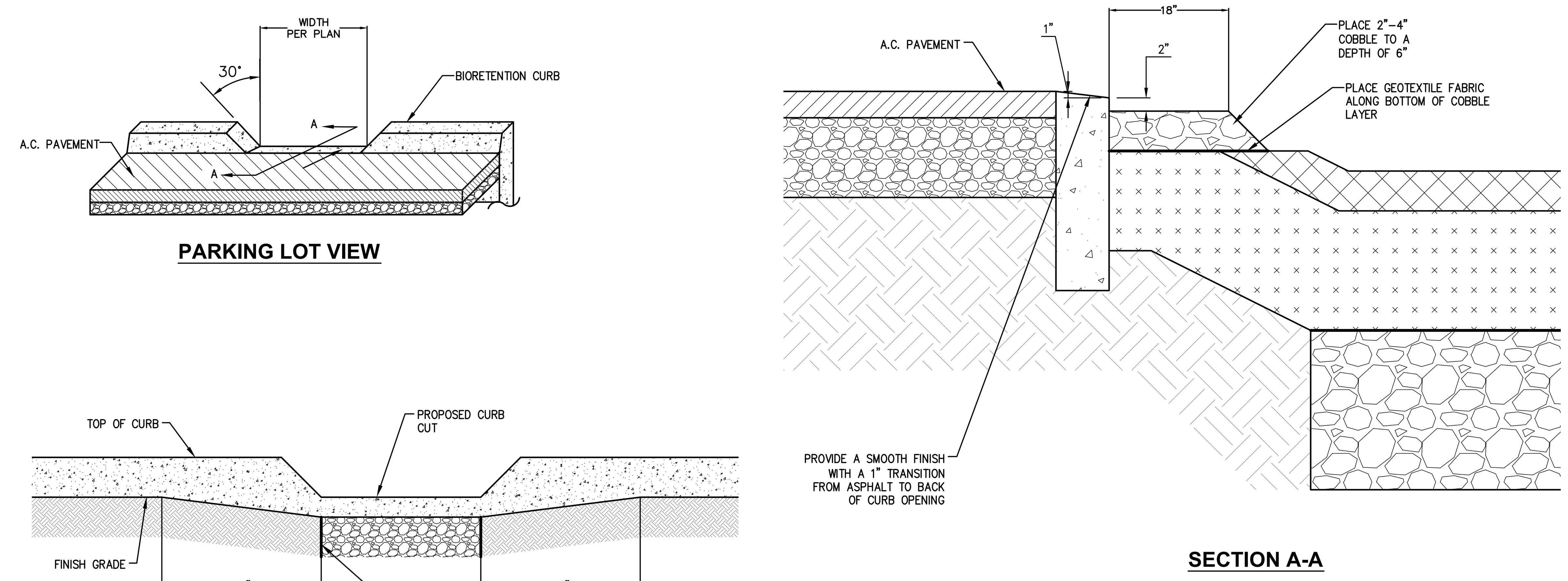


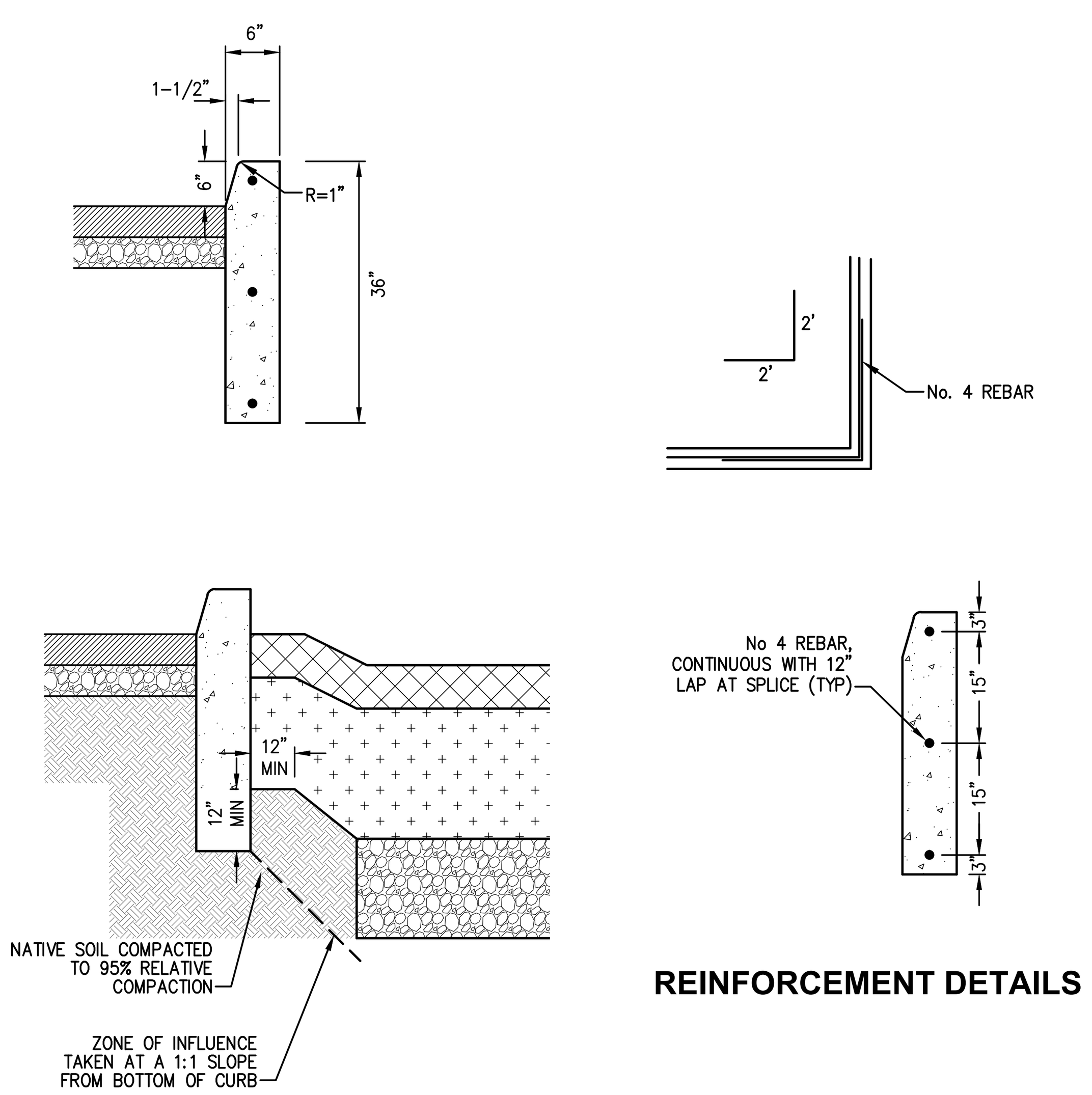
1 L7N-C4 **BIORETENTION DRAIN INLET DETAIL**
NTS



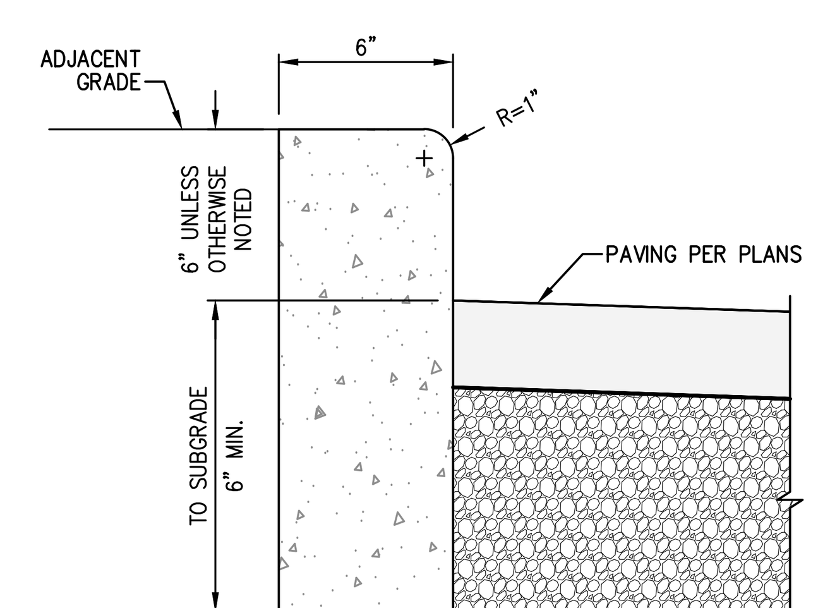
2 L7N-C4 **STORM DRAIN CLEANOUT DETAIL**
NTS



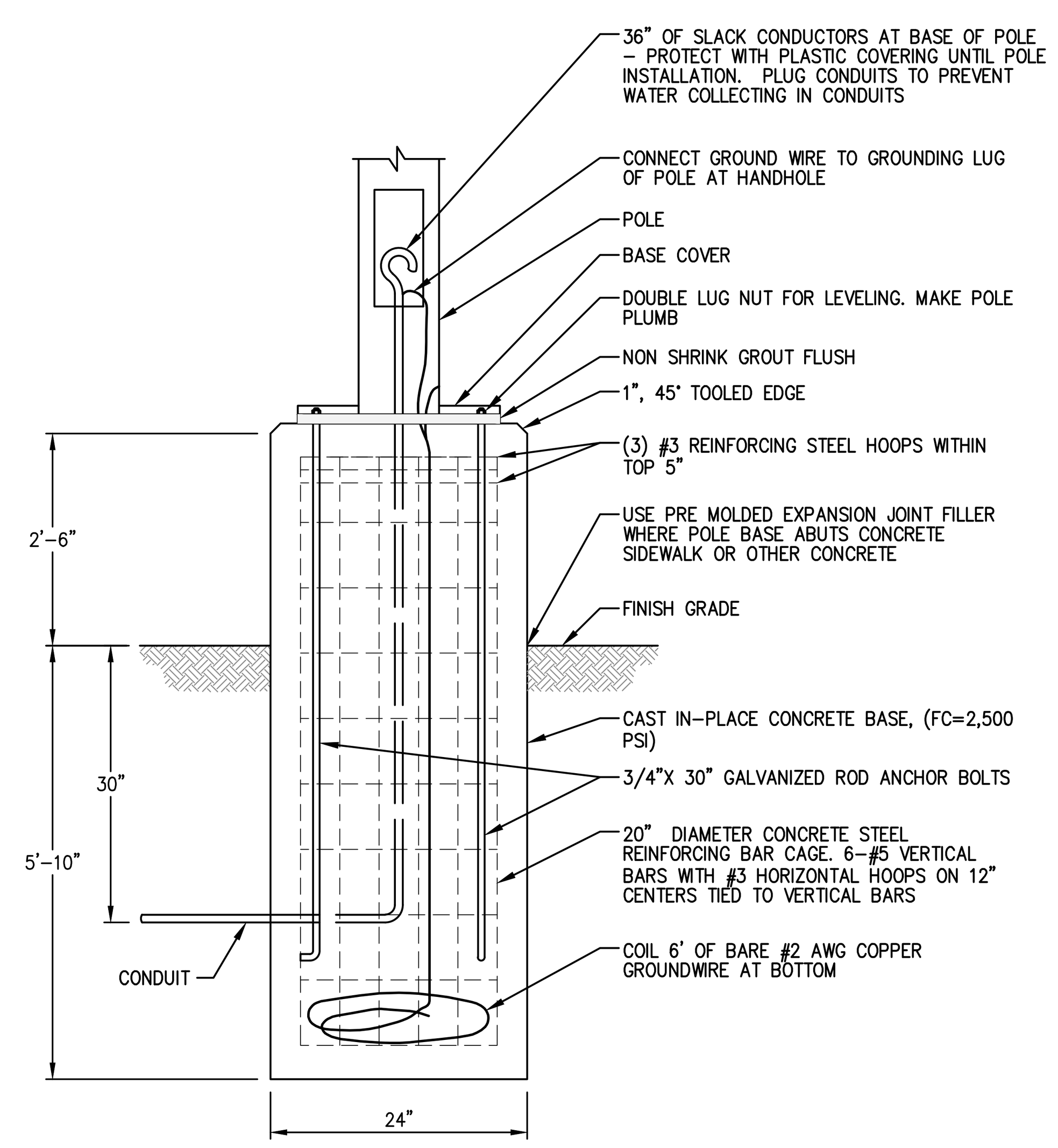
3 L7N-C4 **BIORETENTION CURB OPENING DETAIL**
NTS



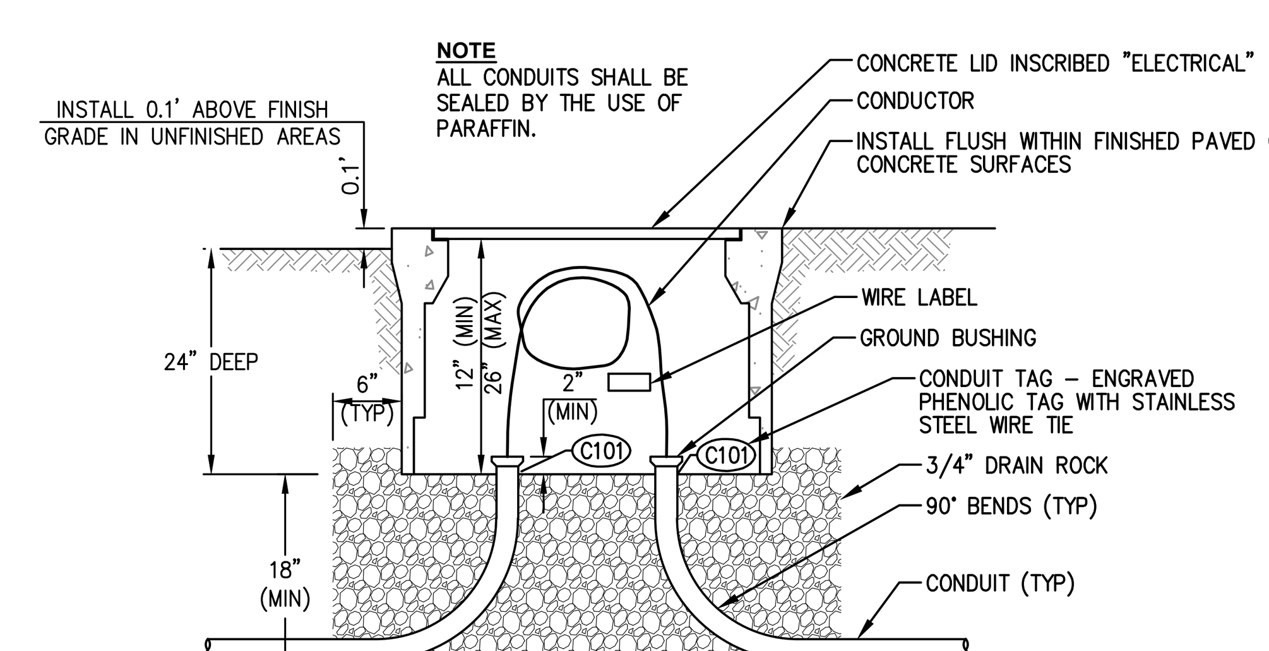
4 L7N-C4 **BIORETENTION PLANTER CURB DETAIL**
NTS



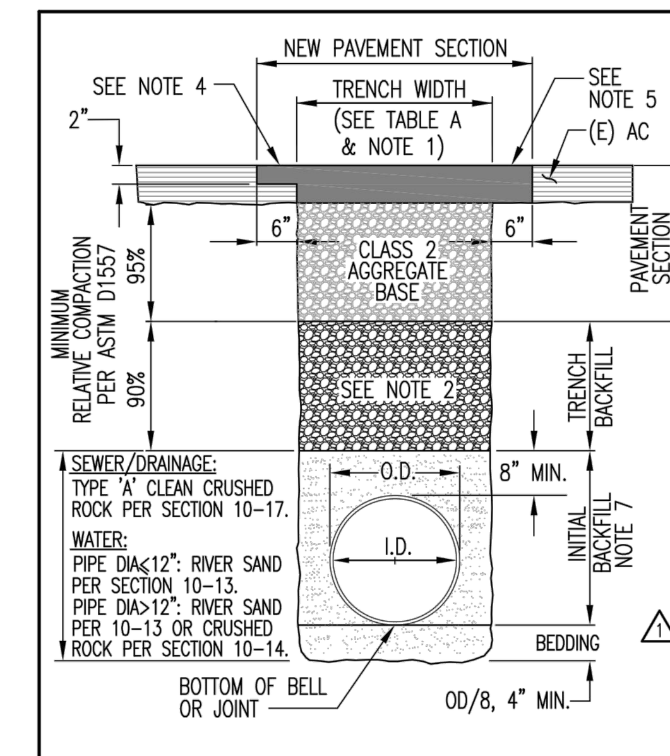
5 L7N-C4 **BARRIER CURB DETAIL**
NTS



6 L7N-C4 **LIGHT POLE BASE DETAIL**
NTS



7 L7N-C4 **HANDHOLE DETAIL**
NTS



TYPICAL TRENCH SECTION

TABLE A			
TRENCH WIDTHS			
PIPE TYPE	PIPE I.D.	MINIMUM DIMENSION	MAXIMUM DIMENSION (4)
RIGID (1)	≤12"	PIPE O.D. + 16"	PIPE O.D. + 24"
	>12"	PIPE O.D. + 20"	PIPE O.D. + 36"
FLEXIBLE (2)	ALL	PER ASTM D2321 (3) OR THE PIPE MANUFACTURER'S RECOMMENDATIONS, WHICHEVER IS GREATER.	

(1) RIGID PIPE = RCP, VCP & DIP.
(2) FLEXIBLE PIPE = ALL PIPE OTHER THAN RIGID PIPE. △1
(3) ASTM D2321 STATES THAT THE MINIMUM TRENCH WIDTH SHALL BE EQUAL TO THE PIPE O.D. PLUS 16" OR THE PIPE O.D. TIMES 1.25 PLUS 12", WHICHEVER IS GREATER.
(4) IF THE MAXIMUM DIMENSION AT THE TOP OF THE PIPE IS EXCEEDED, CONTRACTOR SHALL PROVIDE STRONGER PIPE OR IMPROVED BEDDING AND BACKFILL CONDITIONS, AS APPROVED BY THE ENGINEER, TO MEET THE NEW LOADING.

NOTES: △1

1. EXCAVATION, BACKFILL AND RE-PAVING OF TRENCHES SHALL CONFORM TO THE STANDARD SPECIFICATIONS UNLESS OTHERWISE INDICATED BY THE PLANS, PERMIT, SPECIAL PROVISIONS, OR THE ENGINEER.
2. TRENCH BACKFILL SHALL CONSIST OF CLASS 2 AGGREGATE BASE (AB) OR JOB EXCAVATED, NATIVE SOIL. NO ADDITIONAL COMPENSATION SHALL BE PAID FOR STOCKPILING, DRYING, WETTING OR PROCESSING THE NATIVE SOIL OR AB TO MEET THE MINIMUM STABILITY AND RELATIVE COMPACTION CRITERIA.
3. UNLESS OTHERWISE INDICATED IN THE SPECIAL PROVISIONS, THE NEW PERMANENT PAVEMENT SHALL CONFORM TO THE TYPE AND THICKNESS OF THE PAVEMENT REMOVED. IN NO CASE SHALL THE NEW PAVEMENT SECTION BE LESS THAN FOUR INCHES (4") OF AC ON TWELVE INCHES (12") OF CLASS 2 AGGREGATE BASE (AB).
4. EXISTING AC > 4" THICK: GRIND EXISTING AC 2" DEEP AND 6" WIDER THAN TRENCH ON BOTH SIDES. PLACE NEW AC.
5. EXISTING AC ≤ 4" THICK: SAW CUT AND PLACE NEW AC 6" WIDER THAN TRENCH AS SHOWN ON BOTH SIDES.
6. NON-PAVEMENT AREAS: IN NON-PAVEMENT AREAS, THE PAVEMENT SECTION SHALL BE REPLACED WITH JOB EXCAVATED NATIVE SOIL OR OTHER APPROVED BACKFILL COMPACTED TO AT LEAST 90% RELATIVE COMPACTION PER ASTM D1557.
7. SHOVEL SLICE, TAMP, AND/OR VIBRATE MATERIAL UNDER AND AROUND THE PIPE TO A FIRM NON-YIELDING CONDITION TO SATISFACTION OF THE ENGINEER.

REV.	DATE	DESCRIPTION
1	4/11/12	Changed per Adendum 2

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CITY OF SACRAMENTO
DEPARTMENT OF UTILITIES
TRENCH BACKFILL AND RESURFACING
APPR'D BY: [signature] NO SCALE
DATE: APRIL 2012 DWG. NO. T - 80

NOTES:

1. CONTRACTOR SHALL VARY WIDTH OF TRENCH AS NEEDED FOR IRRIGATION TRENCHING.
2. CONTRACTOR SHALL INSTALL A CONTINUOUS, NON-METALLIC PLASTIC FILM, WARNING TAPE OVER UTILITY PIPE WITH APPROPRIATE MARKINGS AND COLORS BASED ON UTILITY TYPE.

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REGISTERED PROFESSIONAL ENGINEER
DANIEL A. FENOCCHIO
No. C51484
CIVIL
STATE OF CALIFORNIA

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