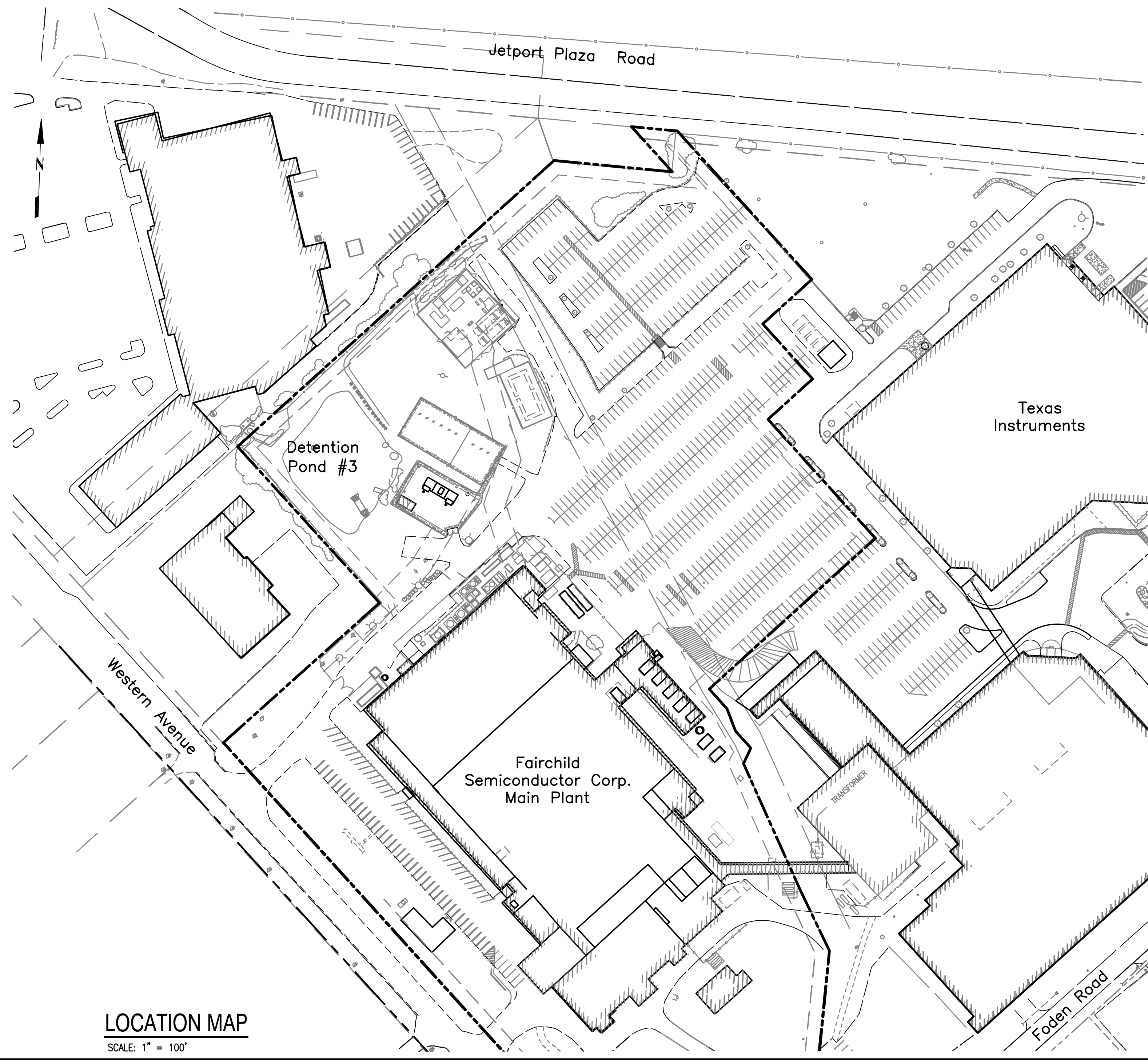


LONG CREEK WATERSHED MANAGEMENT DISTRICT CATCHMENT C-08 STORMWATER IMPROVEMENTS AT FAIRCHILD SEMICONDUCTOR CORPORATION, INC PROPERTIES 333 Western Avenue, South Portland, Maine

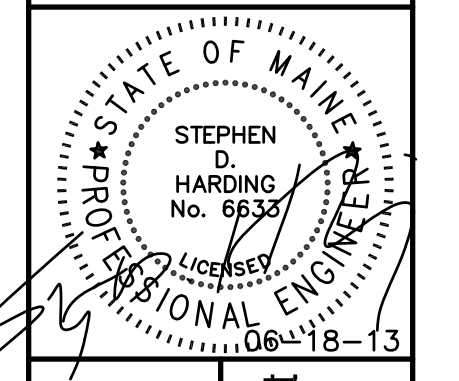


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Issued for Bid
June 18, 2013

PROJECT: Long Creek Watershed Management District
CATCHMENT C-08

FAIRCHILD SEMICONDUCTOR, WESTERN AVE., SOUTH PORTLAND, MAINE

REV	REVISION ISSUE DESCRIPTION	DATE

PROJECT NUMBER: 3618128199
PROJECT MANAGER: TG
A/E OF RECORD: TG
DRAWN BY: WJW
CAD FILE: FSC-G-001
SCALE: AS NOTED
GRAPHIC SCALE:
0" 1"
TITLE:
TITLE PLAN
DRAWING NO:
G-001
SHEET: 1 OF 13

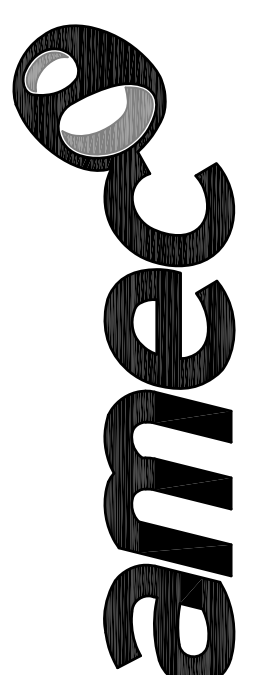
T:\Longcreek Watershed-South Portland\Fairchild Semiconductor\Sheets\FSC-G-001.dwg Tue, 18 Jun 2013 11:15:50 william.whitton

NOTES:

1. CONTRACTOR SHALL PROTECT ALL MAILBOXES, TREES, BUSHES, FENCES, STONE WALLS AND OTHER PERSONAL AND PUBLIC PROPERTY FROM DAMAGE. CONTRACTOR SHALL REPAIR OR REPLACE TREES, BUSHES, FENCES, WALLS OR OTHER PERSONAL AND PUBLIC PROPERTY DAMAGED BY CONSTRUCTION AT NO COST TO THE OWNER.
2. EXCESS SURPLUS NON-CONTAMINATED EXCAVATED MATERIAL SHALL BE REMOVED AND DISPOSED OF OFF SITE IN ACCORDANCE WITH ALL EXISTING GOVERNMENT REGULATIONS AT CONTRACTOR'S EXPENSE.
3. PIPES & STRUCTURES REMOVED AS A RESULT OF CONSTRUCTION OF THIS PROJECT SHALL BE DISPOSED OF OFF SITE IN ACCORDANCE WITH ALL GOVERNMENT REGULATIONS AT CONTRACTOR'S EXPENSE.
4. EXISTING UTILITIES SHOWN ON THE PROJECT DRAWINGS ARE LOCATED APPROXIMATELY AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. UTILITY LOCATIONS ARE BASED ON PHYSICAL LOCATIONS AND/OR MAPS FROM RESPECTIVE UTILITY COMPANIES AND THE LAND OWNER. THESE UTILITY LOCATIONS ARE PROVIDED FOR REFERENCE TO THE CONTRACTOR. NO GUARANTEE IS MADE THAT UTILITIES WILL BE ENCOUNTERED WHERE SHOWN OR THAT ALL UNDERGROUND UTILITIES ARE SHOWN. THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS IN THE FIELD AND BE COMPLETELY RESPONSIBLE FOR REPAIR OF ALL UTILITIES DISTURBED DURING CONSTRUCTION AT NO COST TO THE OWNER.
5. CONTRACTOR IS RESPONSIBLE FOR CALLING DIG-SAFE (1-800-344-7233) 72 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION. CONTRACTOR IS ALSO RESPONSIBLE FOR CONTACTING OTHER NON DIG-SAFE MEMBER UTILITIES FOR UTILITY LOCATIONS 72 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION. COST FOR LOCATING UTILITIES WITHIN THE RIGHT-OF-WAYS OR ON PRIVATE PROPERTIES IS THE CONTRACTOR'S RESPONSIBILITY AND WILL NOT BE PAID FOR SEPARATELY.
6. CATCH BASIN RIMS TO BE SET TO PROMOTE POSITIVE RUNOFF TO THE BASIN INLETS.
7. ALL NON-PAVED AREAS DISTURBED DURING CONSTRUCTION SHALL BE LOAMED, SEEDED, FERTILIZED AND MULCHED UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
8. EXISTING PROPERTY AND RIGHT-OF-WAY PINS AND MONUMENTATION SHALL NOT BE DISTURBED BY CONSTRUCTION. IF DISTURBED, THEY SHALL BE RESET TO THEIR ORIGINAL LOCATIONS AT THE CONTRACTOR'S EXPENSE BY A REGISTERED MAINE PROFESSIONAL LAND SURVEYOR UNLESS OTHERWISE DIRECTED BY THE OWNER.
9. MAINTENANCE OF TRAFFIC:
 - A. CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDULING AND PERFORMING WORK IN SUCH A MANNER TO PROVIDE SAFE PASSAGE FOR TRAFFIC AT ALL TIMES WITH MINIMUM OF OBSTRUCTION TO TRAFFIC.
 - B. CONTRACTOR SHALL FOLLOW THE CONSTRUCTION CIRCULATION PLAN PROVIDED IN PROJECT DRAWINGS.
 - C. CONTRACTOR SHALL MAINTAIN TWO-WAY TRAFFIC OVER THE AREA DURING THE WORK DAY AND SHALL PROVIDE NECESSARY TRAFFIC BARRELS, BARRICADES, WARNING SIGNS, FLAGS AND FLAGGER TO ACCOMPLISH THIS. FURTHER, THE CONTRACTOR SHALL LEAVE THE AREA IN A SATISFACTORY STATE, ACCEPTABLE TO THE ENGINEER, AT THE END OF EACH DAY SO AS TO PROVIDE TWO-WAY (I.E. TWO LANE) TRAFFIC DURING THE NIGHT AND OVER THE WEEKEND.
 - D. CONTRACTOR SHALL PROVIDE MDOT CERTIFIED AND EQUIPPED FLAGGERS TO REGULATE TRAFFIC.
 - E. THE CONTRACTOR SHALL PROVIDE POST-MOUNTED AND WALL MOUNTED TRAFFIC CONTROL AND INFORMATIONAL SIGNS IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, PUBLISHED BY THE U.S. DEPARTMENT OF COMMERCE.
10. CONTRACTOR SHALL INCLUDE IN THEIR BID, COSTS FOR COMPLIANCE WITH STATE AND LOCAL ENVIRONMENTAL PROTECTION REQUIREMENTS INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING:
 - A) CONTROL OF DUST FROM EXCAVATIONS, DUST FROM ROCK DRILLING OPERATIONS, AND SPILLAGE OF MATERIALS ON ROADWAYS.
 - B) THE CONTRACTOR SHALL NOT DISPOSE OF ANY EXCESS MATERIALS ON LANDS DESIGNATED OR CLASSIFIED AS WETLANDS BY THE U.S. DEPARTMENT OF FISH AND WILDLIFE. THE CONTRACTOR IS ADVISED TO CONTACT THE U.S. ARMY CORPS OF ENGINEERS, THE MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION, AND RELATED AGENCIES PRIOR TO SELECTING ANY SITES USED FOR DISPOSAL OF EXCESS MATERIAL.
 - C) CONFORM TO THE MAINE EROSION AND SEDIMENT CONTROL HANDBOOK FOR CONSTRUCTION: BEST MANAGEMENT PRACTICES, LATEST EDITION, CUMBERLAND COUNTY SOIL AND WATER CONSERVATION DISTRICT AND THE MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION. EROSION CONTROL MEASURES SHALL BE PLACED PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITY. EROSION CONTROL MEASURES SHALL BE PLACED WITHIN RIGHT-OF-WAY.
 - D) ACCUMULATED SEDIMENT IN DETENTION BASINS, DRAINAGE STRUCTURES, AND STORMWATER CONVEYANCE PIPES SHALL BE INCORPORATED WITHIN EARTHEN EMBANKMENT AREAS OR REMOVED OFF-SITE TO ANY FACILITY INCLUDING GRAVEL PITS PERMITTED TO ACCEPT ASPHALT RELATED MATERIALS.
11. CONTRACTOR SHALL COMPLY WITH THE FOLLOWING SAFETY REQUIREMENTS:
 - A. ALL APPLICABLE O.S.H.A. REGULATIONS.
 - B. HARD HATS SHALL BE WORN WHILE ON THE PROJECT SITE.
 - C. STEEL TOE SHOES MEETING O.S.H.A. REGULATIONS SHALL BE WORN.
 - D. LONG PANTS WILL BE WORN AT ALL TIMES.
 - E. SHIRTS SHALL BE WORN AT ALL TIMES.
 - F. SAFETY VESTS SHALL BE WORN.
12. CONTRACTOR SHALL PROVIDE QUALIFIED PERSONNEL ON SITE CAPABLE OF PROVIDING HORIZONTAL AND VERTICAL CONTROL.
13. WORKING HOURS SHALL BE 7:00 AM TO 7:00 PM MONDAY THROUGH FRIDAY. WORK ON SATURDAY SHALL OCCUR ONLY UPON THE APPROVAL OF THE PROPERTY OWNER.
14. CONTRACTOR SHALL VERIFY SIZE, TYPE, AND ORIENTATION OF ALL EXISTING PIPES AND CATCH BASINS, WHERE REQUIRED TO TIE THE NEW WORK INTO EXISTING PIPES OR STRUCTURES, PRIOR TO ORDERING MATERIALS.
15. COST OF PLUGGING, AND ABANDONING OF EXISTING PIPES AND COST OF REMOVING EXISTING PIPES AND BACK FILLING EXCAVATION WILL BE INCIDENTAL TO OTHER BID ITEMS.
16. WHERE CONTRACTOR REMOVES EXISTING UTILITIES AND FEATURES, THAT ARE TO REMAIN, TO FACILITATE INSTALLATION OF WORK OF THIS PROJECT, CONTRACTOR SHALL REPLACE SUCH UTILITIES AND FEATURES AT NO COST TO OWNER. COST SHALL BE CONSIDERED INCIDENTAL TO OTHER BID ITEMS.
17. WHERE CONTRACTOR ENCOUNTERS EXISTING STORM DRAINS AND SANITARY SEWERS WITHIN THE LIMITS OF EXCAVATION FOR THE WORK OF THIS PROJECT, CONTRACTOR SHALL REMOVE THESE DRAINS AND SEWERS, WITHIN THOSE LIMITS OF EXCAVATION, THAT ARE NO LONGER REQUIRED TO BE ACTIVE AND PLUG AND ABANDON THEM IN PLACE AT NO COST TO OWNER. COST SHALL BE CONSIDERED INCIDENTAL TO OTHER BID ITEMS.
18. WORK REQUIRED BY THE CONTRACT DOCUMENTS NOT DEFINED IN THE BID ITEMS SHALL BE INCIDENTAL TO ALL BID ITEMS AND NO SEPARATE PAYMENT WILL BE MADE. SUCH INCIDENTAL WORK IS LABELED (INCIDENTAL) ON THESE CONTRACT DRAWINGS.
19. CONTRACTOR SHALL MAINTAIN A RECORD OF ALL INSTALLATIONS DURING CONSTRUCTION AND PROVIDE A RECORD COPY OF THE INSTALLED CONDITION TO THE ENGINEER FOR REVIEW AND APPROVAL.
20. ALL CONSTRUCTION SHALL MEET MDOT AND/OR CITY OF SOUTH PORTLAND SPECIFICATIONS.
21. A STORMWATER IMPROVEMENTS PROJECT WILL SIMULTANEOUSLY BE TAKING PLACE AT THE ADJACENT TEXAS INSTRUMENT FACILITY. SINCE THE DRAINAGE INFRASTRUCTURE FOR BOTH FACILITIES ARE CONNECTED, THE CONTRACTOR MUST COORDINATE EFFORTS WITH THE TEXAS INSTRUMENT CONTRACTOR.
22. TOPOGRAPHIC SURVEY CONDUCTED BY AMEC E & I, INC. HORIZONTAL DATUM IS BASED ON MAINE STATE GRID COORDINATE SYSTEM NAD83, WEST ZONE. VERTICAL DATUM IS REFERENCE TO NGVD29.
23. CONTRACTOR TO LOCATE PROJECT SIGN PER OWNER'S DIRECTION.

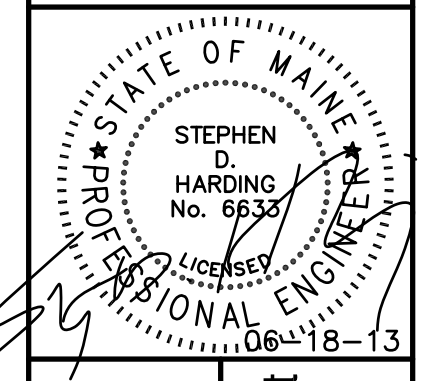
LEGEND:

EXISTING		PROPOSED
⊕ C.B.		■
⊙ DMH		●
⊙ SMH		
—S—	CATCH BASIN	
—SD—	DRAIN MANHOLE	
---UD---	SEWER MANHOLE	
○	SEWER LINE	
—OE—	STORM DRAIN	—SD—
○	UNDER DRAIN	---UD---
—W—	RISER	○
⊙	CLEANOUT	⊙
⊙	RIPRAP	⊙
—	OVERHEAD ELECTRIC	
—	UTILITY POLE	
—	GUY POLE	
—	WATER LINE	
—	WATER VALVE	
—	HYDRANT	
—	FENCE LINE	
▨	PAINTED CROSS WALK	▨
---	EDGE OF PAVEMENT	---
---	CURB	---
⊙	SIGN POST	⊕
⊙	CONIFEROUS TREE	⊕
⊙	DECIDUOUS TREE	⊕
⊕	REMOVE TREE & STUMP	⊕
▨	RETAINING WALL	▨
—	TREE LINE	—
—	GUARDRAIL	—
—	CONTOUR	—
—	RIGHT OF WAY	—
—	WETLAND	—
+	TEST PIT LOCATION	
---	SILT FENCE	---
▨	EROSION CONTROL BLANKET	▨
⊕	DEMOLITION	⊕
---	TREE PROTECTION	---



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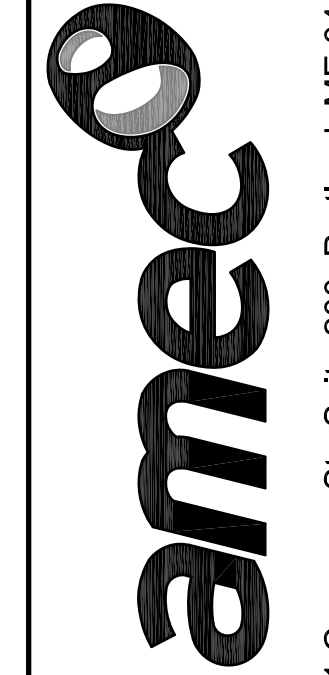
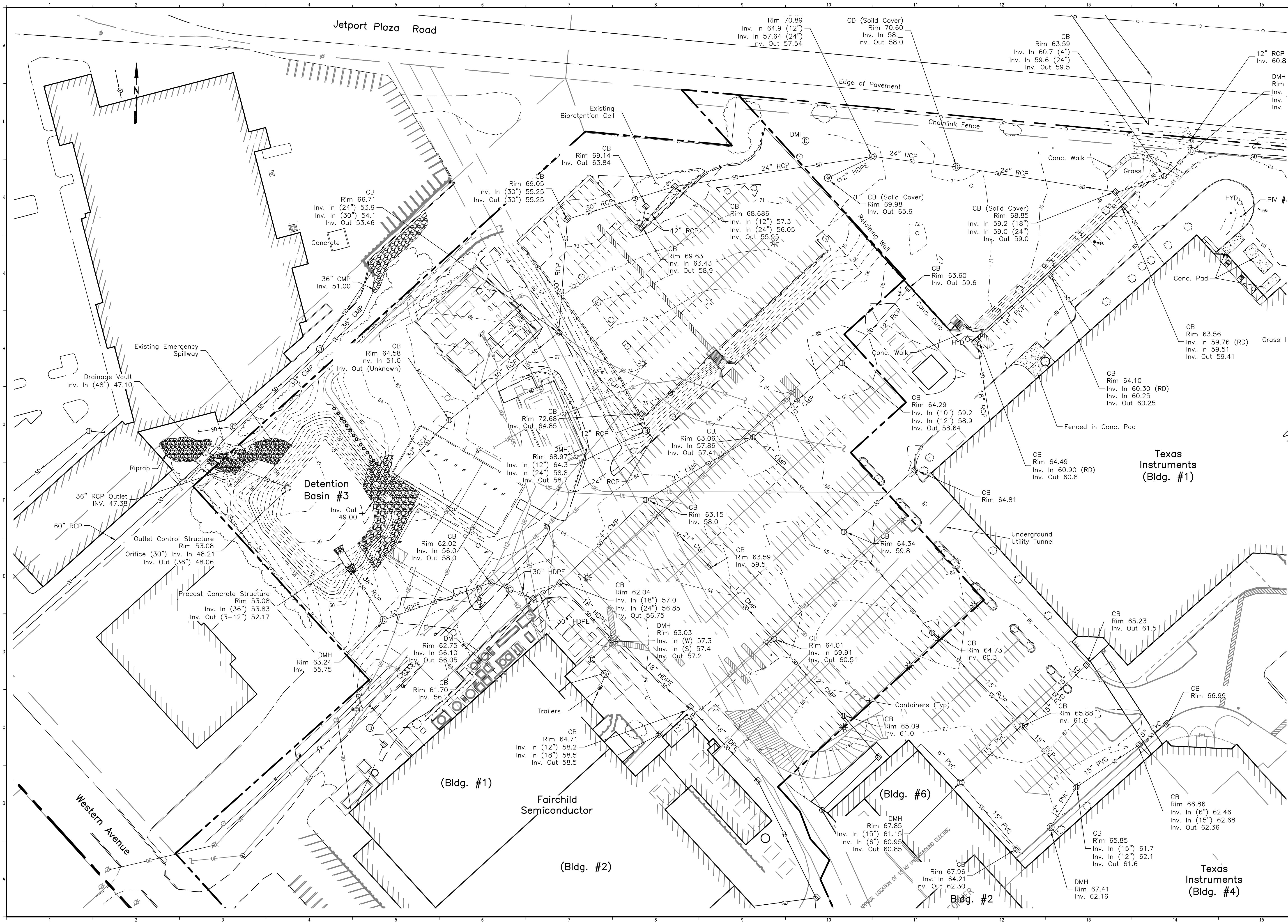
PROJECT: Long Creek Watershed Management District
 CATCHMENT C-08
 FAIRCHILD SEMICONDUCTOR, WESTERN AVE., SOUTH PORTLAND, MAINE

REV	DESCRIPTION	DATE

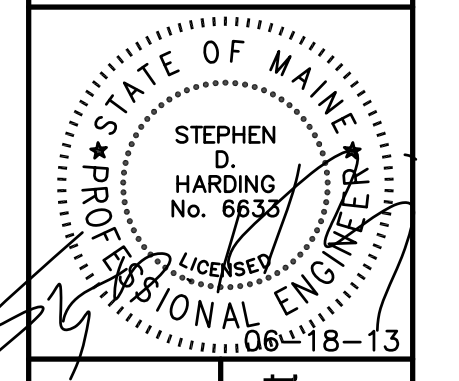
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 CAD FILE: FSC-G-002
 SCALE: AS NOTED
 GRAPHIC SCALE:
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TITLE:
 NOTES AND LEGEND

DRAWING NO:
G-002
 SHEET: 2 OF 13



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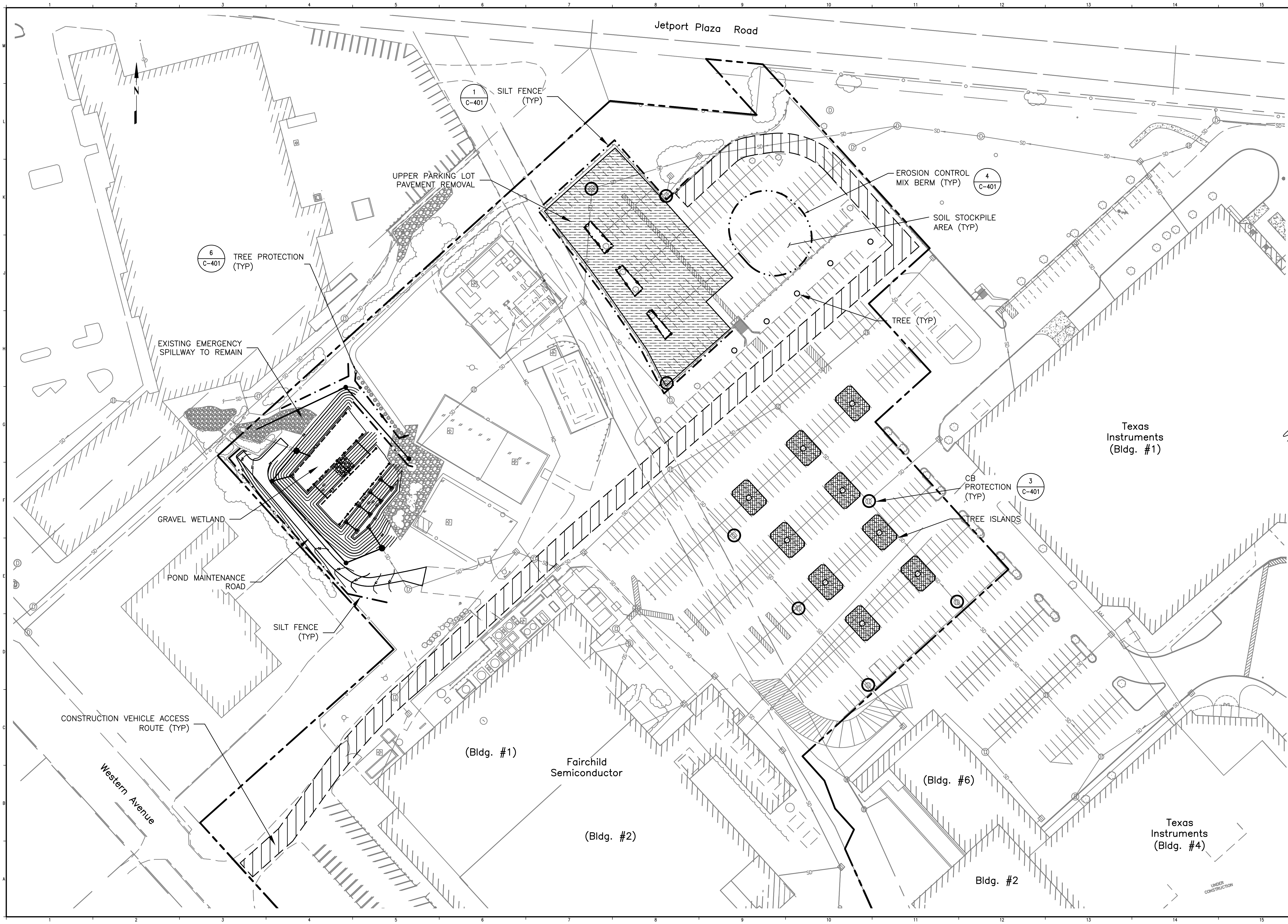
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PROJECT:
Long Creek Watershed Management District
CATCHMENT C-08

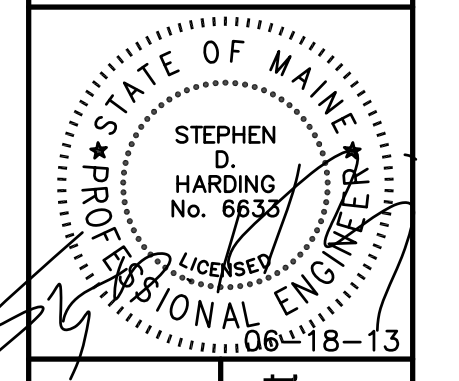
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TITLE:	EXISTING CONDITIONS PLAN-1
DRAWING NO.:	C-101.1
SHEET:	3 OF 13

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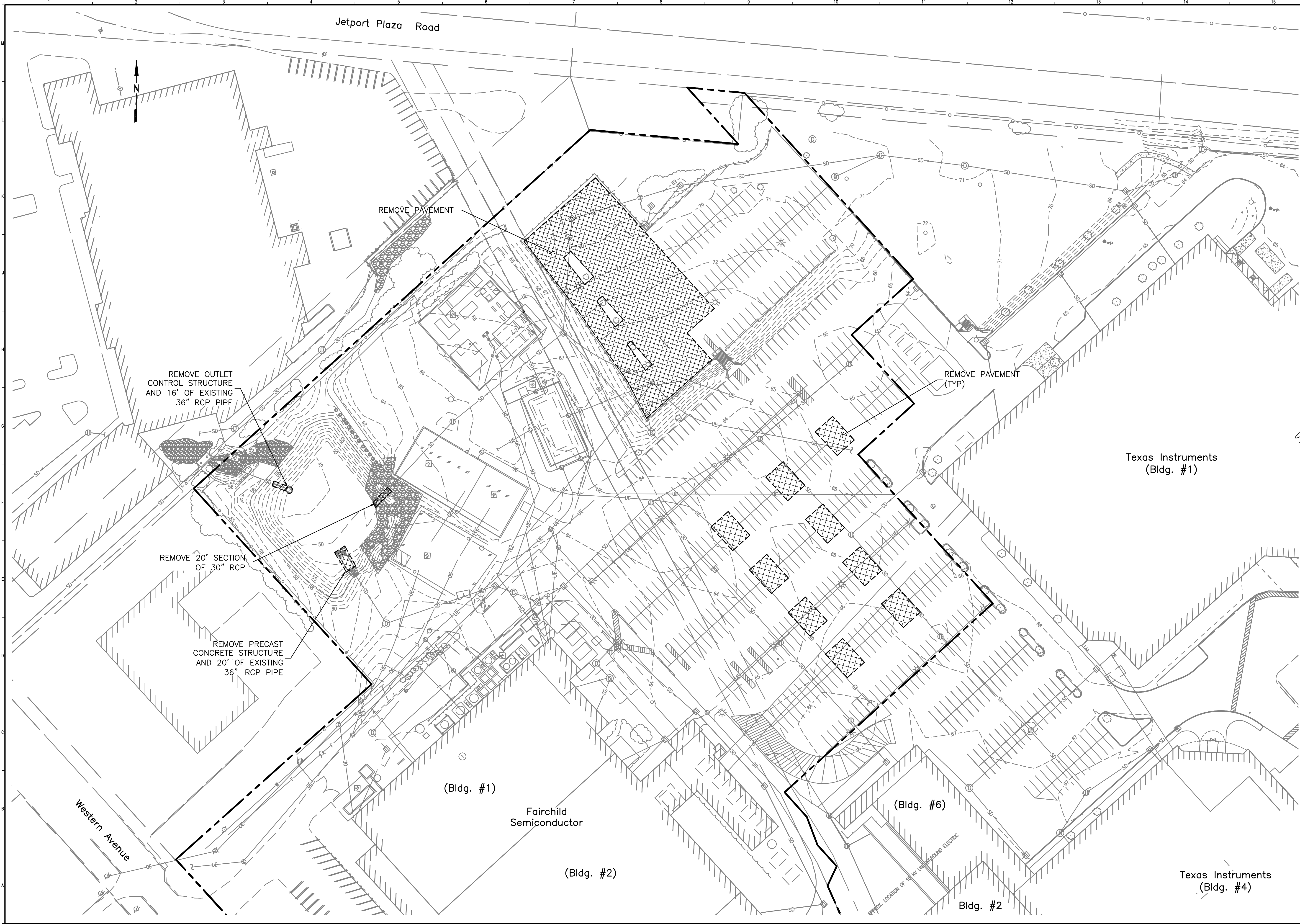
PROJECT:
 Long Creek Watershed Management District
 CATCHMENT C-08

FAIRCHILD SEMICONDUCTOR, WESTERN AVE., SOUTH PORTLAND, MAINE

REV	REVISION ISSUE DESCRIPTION	DATE

PROJECT NUMBER: 3618128199
 PROJECT MANAGER: TG
 A/E OF RECORD: TG
 DRAWN BY: WJW
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 SHEET: 4 OF 13

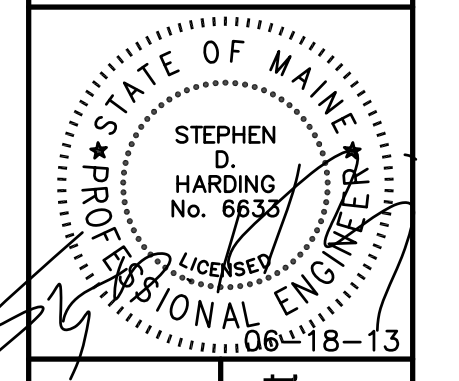
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PROJECT:
 Long Creek Watershed Management District
 CATCHMENT C-08

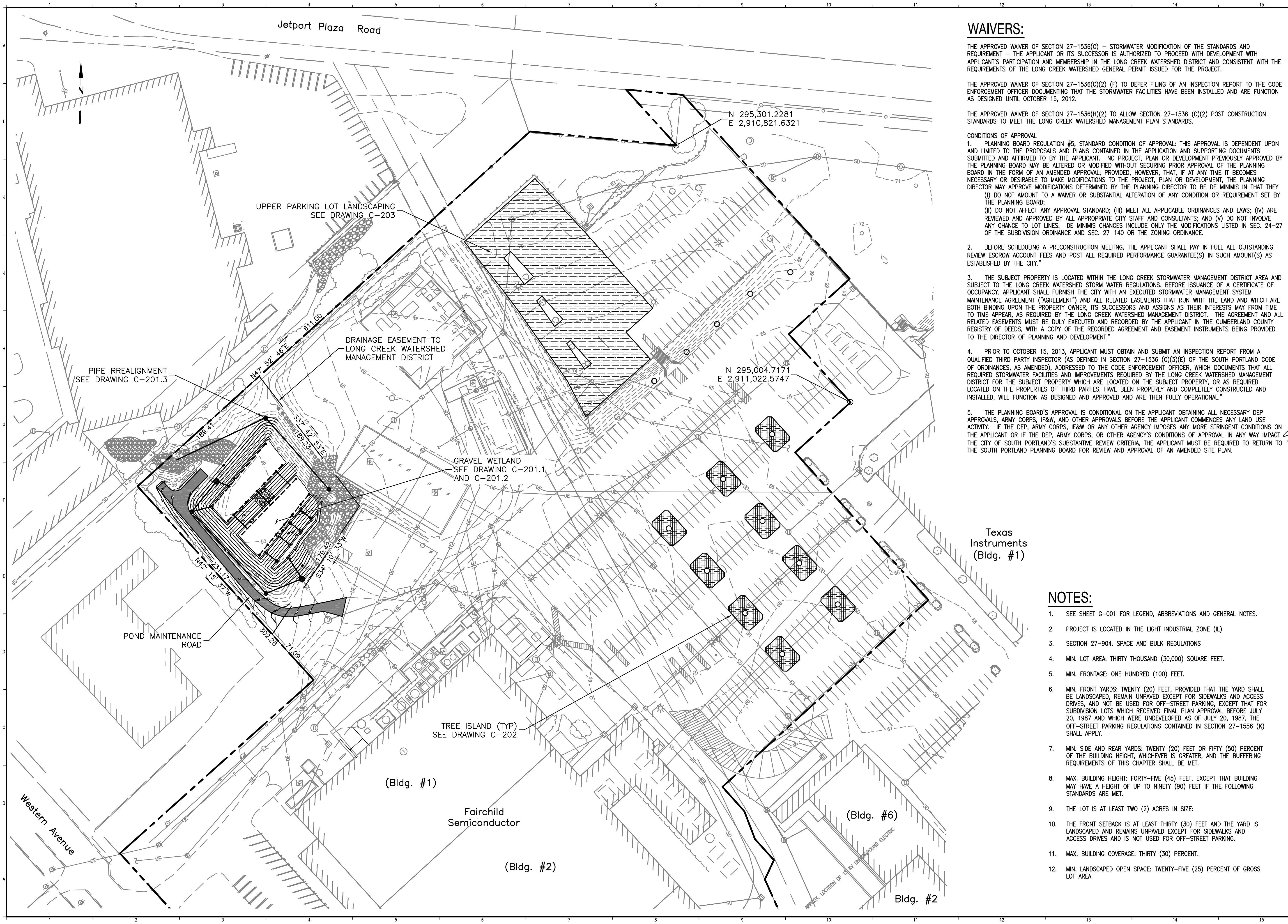
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 A/E OF RECORD: TG
 DRAWN BY: WJW
 CAD FILE: FSC-C-103.1
 SCALE: 1" = 50'
 GRAPHIC SCALE:
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TITLE:
 DEMOLITION PLAN-1

DRAWING NO:
 C-103.1
 SHEET: 5 OF 13



WAIVERS:

THE APPROVED WAIVER OF SECTION 27-1536(C) - STORMWATER MODIFICATION OF THE STANDARDS AND REQUIREMENT - THE APPLICANT OR ITS SUCCESSOR IS AUTHORIZED TO PROCEED WITH DEVELOPMENT WITH APPLICANT'S PARTICIPATION AND MEMBERSHIP IN THE LONG CREEK WATERSHED DISTRICT AND CONSISTENT WITH THE REQUIREMENTS OF THE LONG CREEK WATERSHED GENERAL PERMIT ISSUED FOR THE PROJECT.

THE APPROVED WAIVER OF SECTION 27-1536(H)(2) (F) TO DEFER FILING OF AN INSPECTION REPORT TO THE CODE ENFORCEMENT OFFICER DOCUMENTING THAT THE STORMWATER FACILITIES HAVE BEEN INSTALLED AND ARE FUNCTION AS DESIGNED UNTIL OCTOBER 15, 2012.


THE APPROVED WAIVER OF SECTION 27-1536(H)(2) TO ALLOW SECTION 27-1536 (C)(2) POST CONSTRUCTION STANDARDS TO MEET THE LONG CREEK WATERSHED MANAGEMENT PLAN STANDARDS.

CONDITIONS OF APPROVAL

- PLANNING BOARD REGULATION #5, STANDARD CONDITION OF APPROVAL: THIS APPROVAL IS DEPENDENT UPON AND LIMITED TO THE PROPOSALS AND PLANS CONTAINED IN THE APPLICATION AND SUPPORTING DOCUMENTS SUBMITTED AND AFFIRMED TO BY THE APPLICANT. NO PROJECT, PLAN OR DEVELOPMENT PREVIOUSLY APPROVED BY THE PLANNING BOARD MAY BE ALTERED OR MODIFIED WITHOUT SECURING PRIOR APPROVAL OF THE PLANNING BOARD IN THE FORM OF AN AMENDED APPROVAL; PROVIDED, HOWEVER, THAT, IF AT ANY TIME IT BECOMES NECESSARY OR DESIRABLE TO MAKE MODIFICATIONS TO THE PROJECT, PLAN OR DEVELOPMENT, THE PLANNING DIRECTOR MAY APPROVE MODIFICATIONS DETERMINED BY THE PLANNING DIRECTOR TO BE DE MINIMIS IN THAT THEY (I) DO NOT AMOUNT TO A WAIVER OR SUBSTANTIAL ALTERATION OF ANY CONDITION OR REQUIREMENT SET BY THE PLANNING BOARD; (II) DO NOT AFFECT ANY APPROVAL STANDARD; (III) MEET ALL APPLICABLE ORDINANCES AND LAWS; (IV) ARE REVIEWED AND APPROVED BY ALL APPROPRIATE CITY STAFF AND CONSULTANTS; AND (V) DO NOT INVOLVE ANY CHANGE TO LOT LINES. DE MINIMIS CHANGES INCLUDE ONLY THE MODIFICATIONS LISTED IN SEC. 24-27 OF THE SUBDIVISION ORDINANCE AND SEC. 27-140 OR THE ZONING ORDINANCE.
- BEFORE SCHEDULING A PRECONSTRUCTION MEETING, THE APPLICANT SHALL PAY IN FULL ALL OUTSTANDING REVIEW ESCROW ACCOUNT FEES AND POST ALL REQUIRED PERFORMANCE GUARANTEE(S) IN SUCH AMOUNT(S) AS ESTABLISHED BY THE CITY."
- THE SUBJECT PROPERTY IS LOCATED WITHIN THE LONG CREEK STORMWATER MANAGEMENT DISTRICT AREA AND SUBJECT TO THE LONG CREEK WATERSHED STORM WATER REGULATIONS. BEFORE ISSUANCE OF A CERTIFICATE OF OCCUPANCY, APPLICANT SHALL FURNISH THE CITY WITH AN EXECUTED STORMWATER MANAGEMENT SYSTEM MAINTENANCE AGREEMENT ("AGREEMENT") AND ALL RELATED EASEMENTS THAT RUN WITH THE LAND AND WHICH ARE BOTH BINDING UPON THE PROPERTY OWNER, ITS SUCCESSORS AND ASSIGNS AS THEIR INTERESTS MAY FROM TIME TO TIME APPEAR, AS REQUIRED BY THE LONG CREEK WATERSHED MANAGEMENT DISTRICT. THE AGREEMENT AND ALL RELATED EASEMENTS MUST BE DULY EXECUTED AND RECORDED BY THE APPLICANT IN THE CUMBERLAND COUNTY REGISTRY OF DEEDS, WITH A COPY OF THE RECORDED AGREEMENT AND EASEMENT INSTRUMENTS BEING PROVIDED TO THE DIRECTOR OF PLANNING AND DEVELOPMENT."
- PRIOR TO OCTOBER 15, 2013, APPLICANT MUST OBTAIN AND SUBMIT AN INSPECTION REPORT FROM A QUALIFIED THIRD PARTY INSPECTOR (AS DEFINED IN SECTION 27-1536 (C)(3)(E) OF THE SOUTH PORTLAND CODE OF ORDINANCES, AS AMENDED), ADDRESSED TO THE CODE ENFORCEMENT OFFICER, WHICH DOCUMENTS THAT ALL REQUIRED STORMWATER FACILITIES AND IMPROVEMENTS REQUIRED BY THE LONG CREEK WATERSHED MANAGEMENT DISTRICT FOR THE SUBJECT PROPERTY WHICH ARE LOCATED ON THE SUBJECT PROPERTY, OR AS REQUIRED LOCATED ON THE PROPERTIES OF THIRD PARTIES, HAVE BEEN PROPERLY AND COMPLETELY CONSTRUCTED AND INSTALLED, WILL FUNCTION AS DESIGNED AND APPROVED AND ARE THEN FULLY OPERATIONAL."
- THE PLANNING BOARD'S APPROVAL IS CONDITIONAL ON THE APPLICANT OBTAINING ALL NECESSARY DEP APPROVALS, ARMY CORPS, IF&W, AND OTHER APPROVALS BEFORE THE APPLICANT COMMENCES ANY LAND USE ACTIVITY. IF THE DEP, ARMY CORPS, IF&W OR ANY OTHER AGENCY IMPOSES ANY MORE STRINGENT CONDITIONS ON THE APPLICANT OR IF THE DEP, ARMY CORPS, OR OTHER AGENCY'S CONDITIONS OF APPROVAL IN ANY WAY IMPACT THE CITY OF SOUTH PORTLAND'S SUBSTANTIVE REVIEW CRITERIA, THE APPLICANT MUST BE REQUIRED TO RETURN TO THE SOUTH PORTLAND PLANNING BOARD FOR REVIEW AND APPROVAL OF AN AMENDED SITE PLAN.

NOTES:

- SEE SHEET G-001 FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES.
- PROJECT IS LOCATED IN THE LIGHT INDUSTRIAL ZONE (IL).
- SECTION 27-904. SPACE AND BULK REGULATIONS
- MIN. LOT AREA: THIRTY THOUSAND (30,000) SQUARE FEET.
- MIN. FRONTAGE: ONE HUNDRED (100) FEET.
- MIN. FRONT YARDS: TWENTY (20) FEET, PROVIDED THAT THE YARD SHALL BE LANDSCAPED, REMAIN UNPAVED EXCEPT FOR SIDEWALKS AND ACCESS DRIVES, AND NOT BE USED FOR OFF-STREET PARKING, EXCEPT THAT FOR SUBDIVISION LOTS WHICH RECEIVED FINAL PLAN APPROVAL BEFORE JULY 20, 1987 AND WHICH WERE UNDEVELOPED AS OF JULY 20, 1987, THE OFF-STREET PARKING REGULATIONS CONTAINED IN SECTION 27-1556 (K) SHALL APPLY.
- MIN. SIDE AND REAR YARDS: TWENTY (20) FEET OR FIFTY (50) PERCENT OF THE BUILDING HEIGHT, WHICHEVER IS GREATER, AND THE BUFFERING REQUIREMENTS OF THIS CHAPTER SHALL BE MET.
- MAX. BUILDING HEIGHT: FORTY-FIVE (45) FEET, EXCEPT THAT BUILDING MAY HAVE A HEIGHT OF UP TO NINETY (90) FEET IF THE FOLLOWING STANDARDS ARE MET.
- THE LOT IS AT LEAST TWO (2) ACRES IN SIZE:
- THE FRONT SETBACK IS AT LEAST THIRTY (30) FEET AND THE YARD IS LANDSCAPED AND REMAINS UNPAVED EXCEPT FOR SIDEWALKS AND ACCESS DRIVES AND IS NOT USED FOR OFF-STREET PARKING.
- MAX. BUILDING COVERAGE: THIRTY (30) PERCENT.
- MIN. LANDSCAPED OPEN SPACE: TWENTY-FIVE (25) PERCENT OF GROSS LOT AREA.



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STATE OF MAINE
STEPHEN D. HARDING
No. 6632
LICENSED PROFESSIONAL ENGINEER
10618-13

Issued for Bid
June 18, 2013

Long Creek Watershed Management District
CATCHMENT C-08

FAIRCHILD SEMICONDUCTOR, WESTERN AVE., SOUTH PORTLAND, MAINE

REV	REVISION	ISSUE DESCRIPTION	DATE

PROJECT NUMBER: 3618128199

PROJECT MANAGER: TG

A/E OF RECORD: TG

DRAWN BY: WJW

CAD FILE: FSC-C-104.1

SCALE: 1" = 50'

GRAPHIC SCALE:
0" 1"

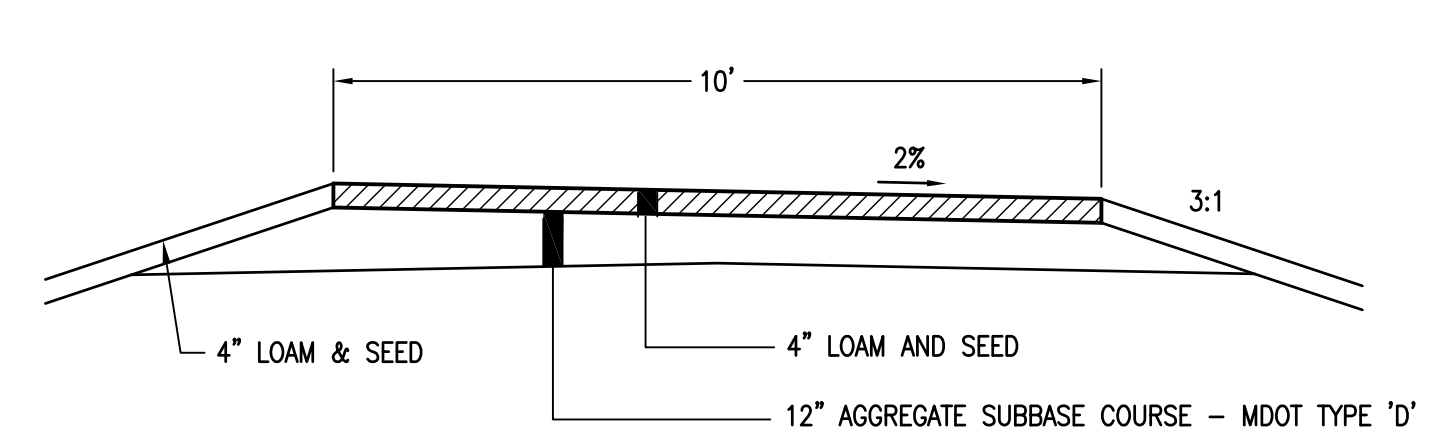
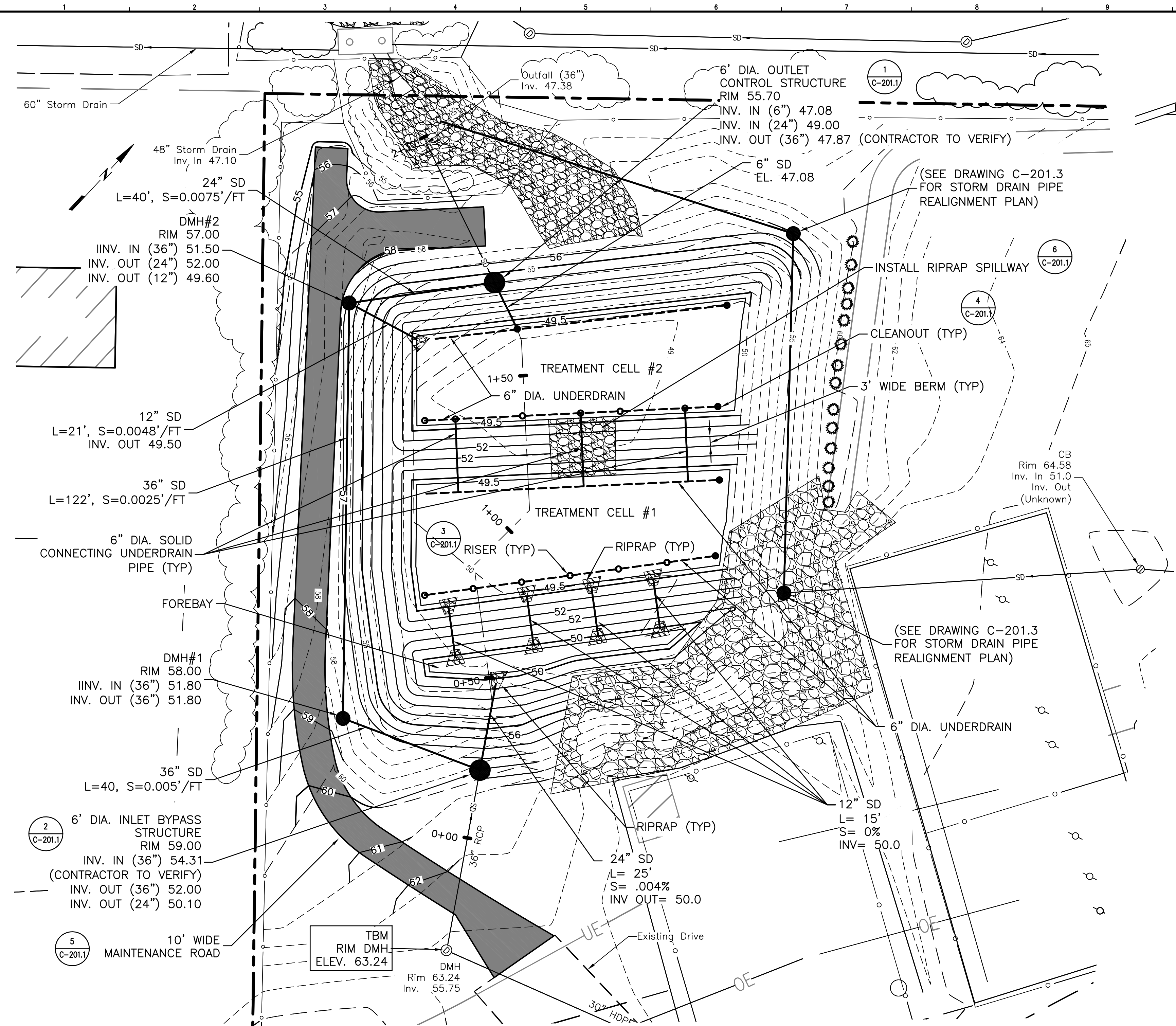
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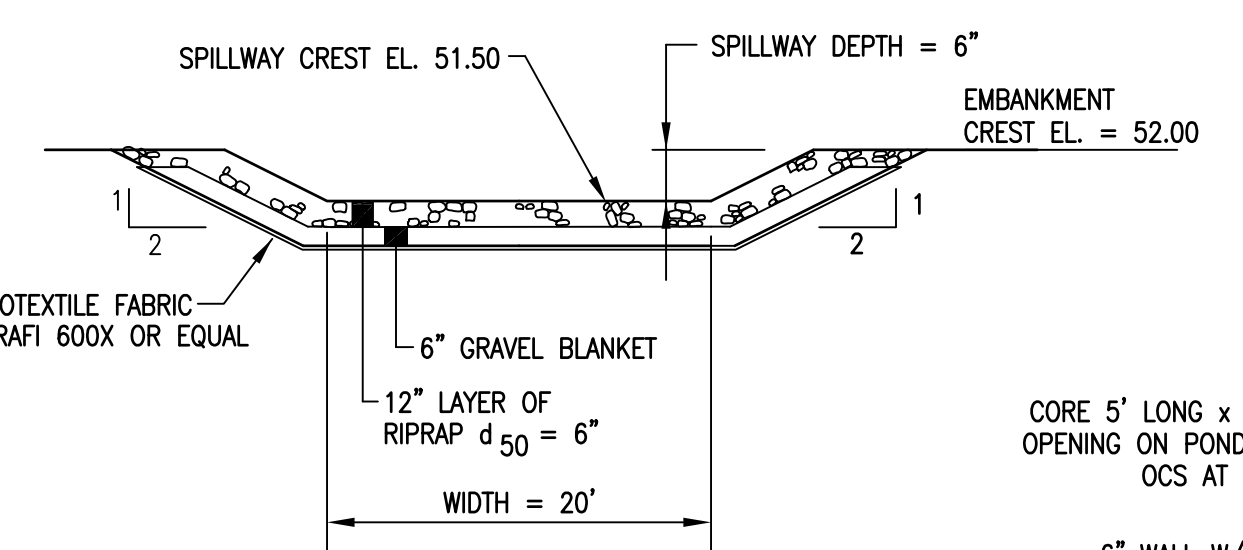
SHEET: 6 OF 13

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T:\Longcreek Watershed-South Portland\Fairchild Semiconductor\Sheets\FSC-C-104.1.dwg Tue, 18 Jun 2013 - 11:33 am william.whittem

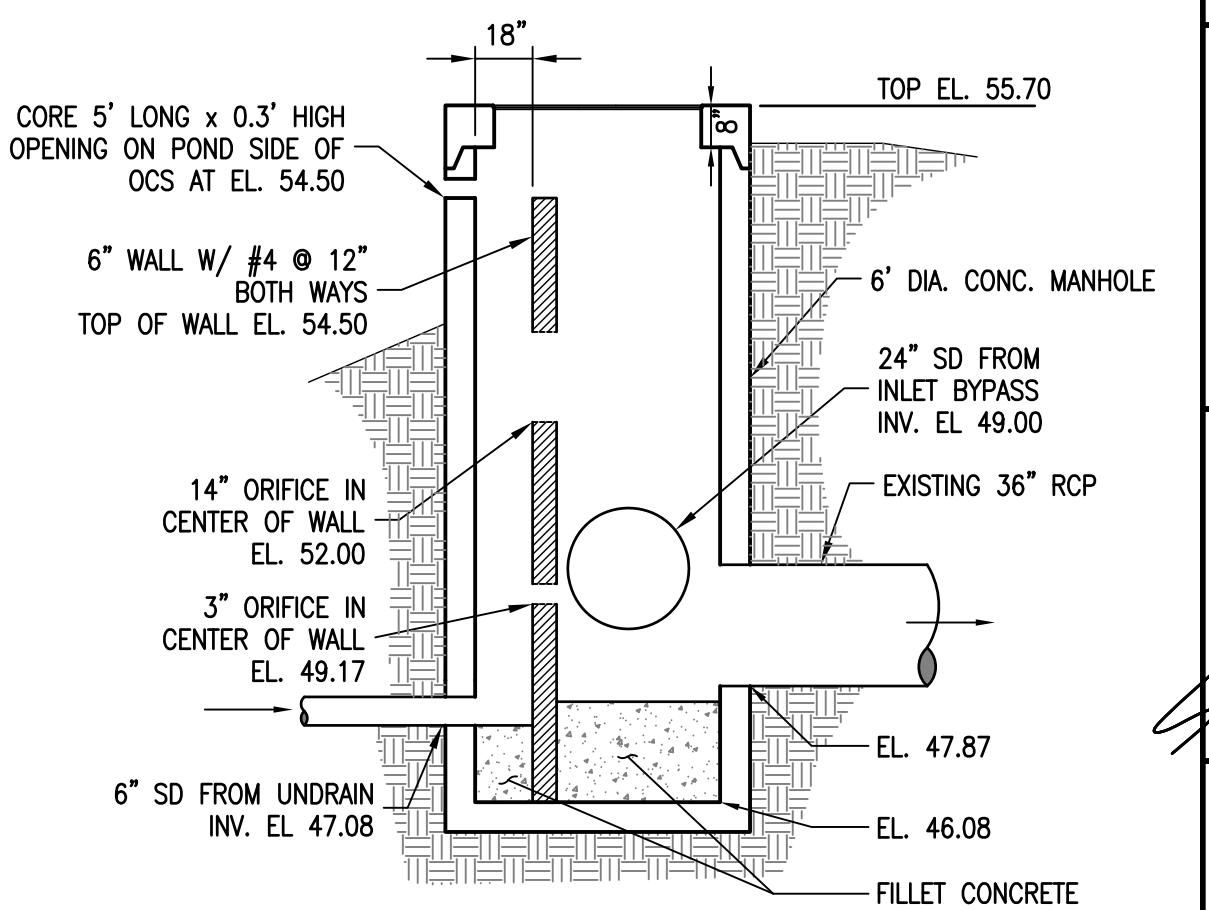
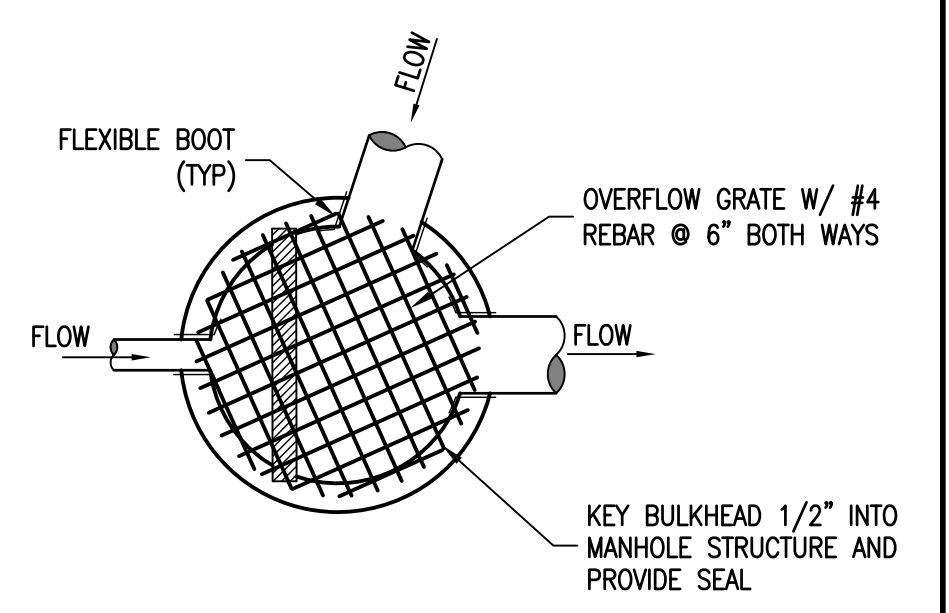


5 MAINTENANCE ROAD
SCALE: NTS

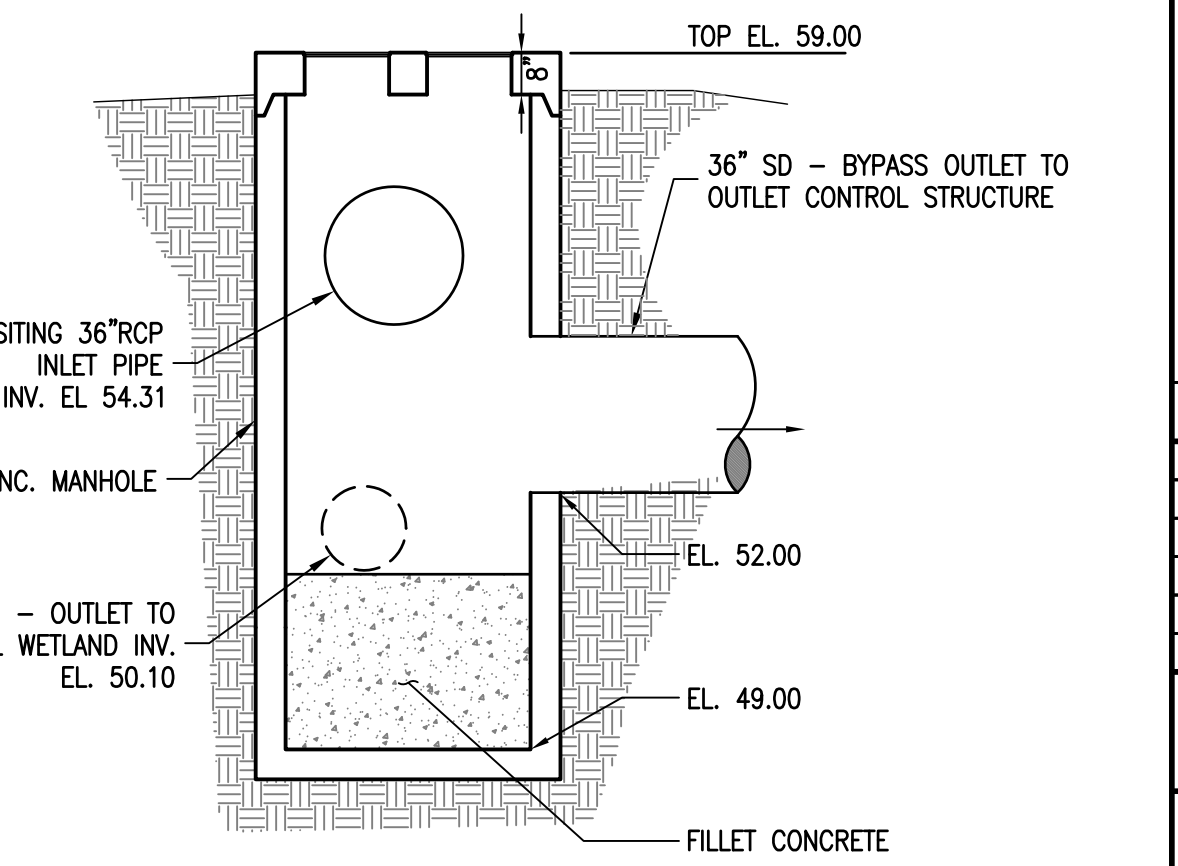
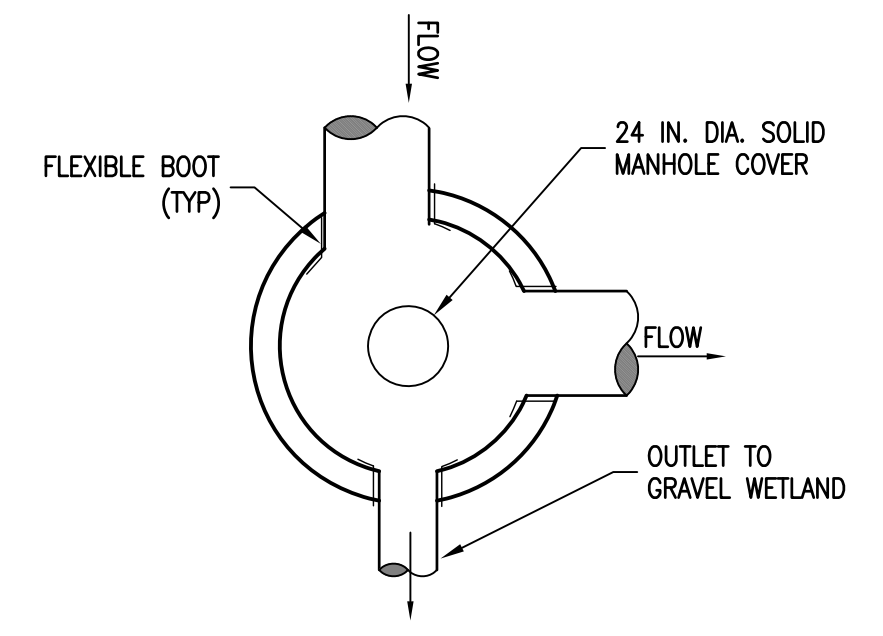


6 RIPRAP SPILLWAY SECTION
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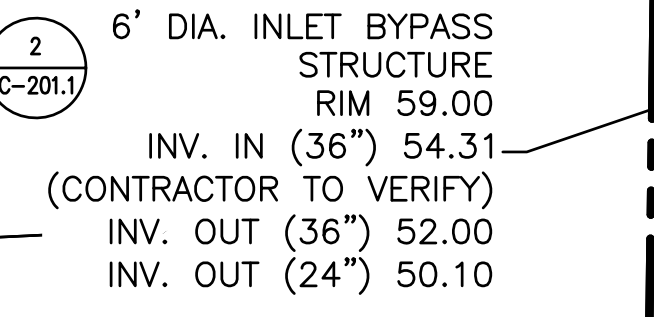
- NOTE:**
- SEE SHEET G-002 FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES.
 - UNLESS OTHERWISE NOTED, DRAIN MANHOLES ARE FIVE FEET IN DIAMETER.
 - ALL STORM DRAIN TO BE SMOOTH BORE, DUAL WALL HDPE PIPE.
 - ALL UPSTREAM AREAS WILL BE SUFFICIENTLY STABILIZED PRIOR TO PLACEMENT OF FILTER MEDIA WITHIN GRAVEL WETLAND.



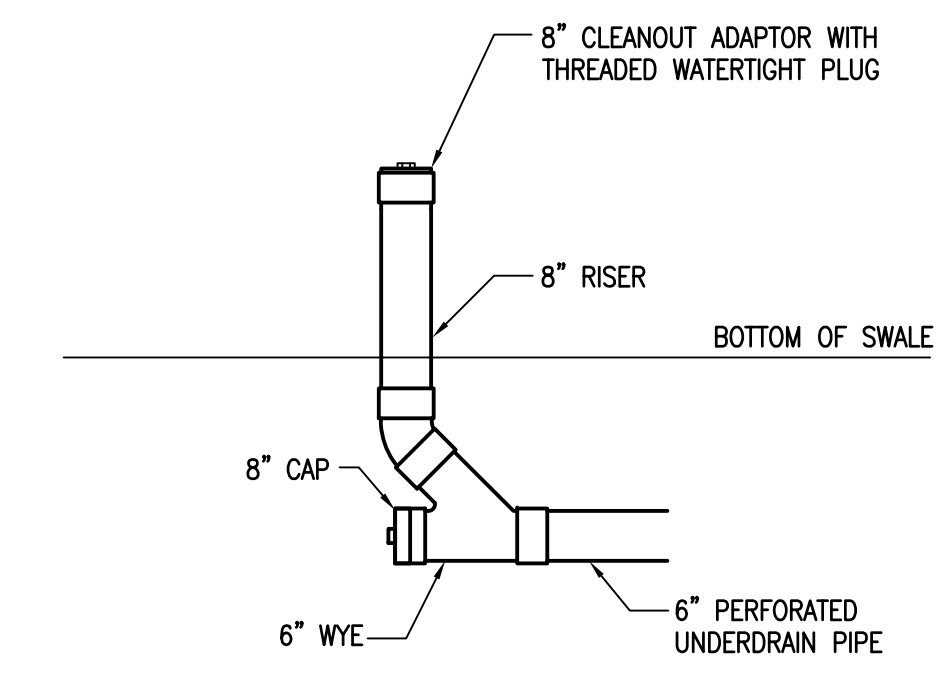
1 6\"/>



2 6\"/>



3 RISER
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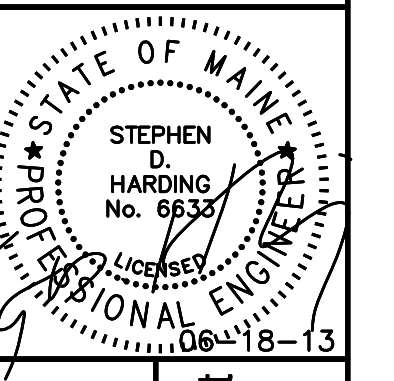


4 CLEANOUT
SCALE: NTS

GRAVEL WETLAND
SCALE: 1" = 20'

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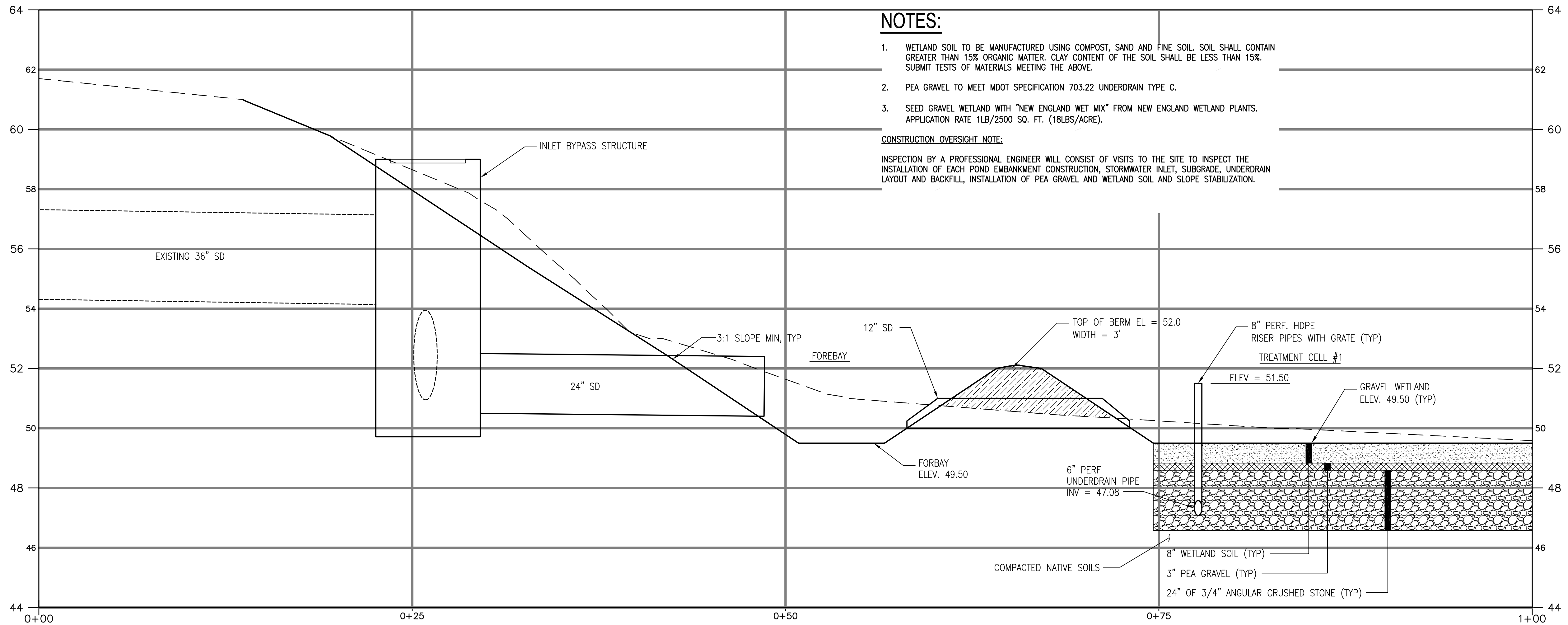


Issued for Bid
June 18, 2013

PROJECT: Long Creek Watershed Management District CATCHMENT C-08
FAIRCHILD SEMICONDUCTOR, WESTERN AVE., SOUTH PORTLAND, MAINE

REV	REVISION ISSUE DESCRIPTION	DATE

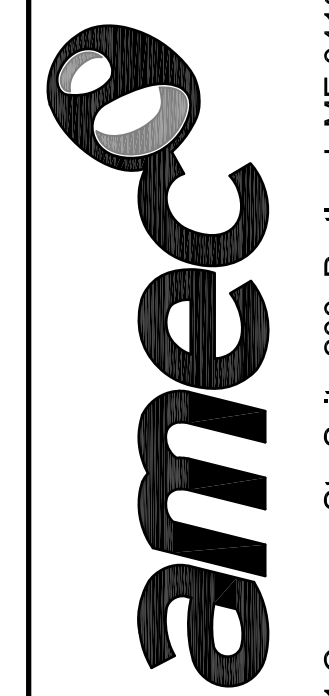
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PROJECT MANAGER: TG
A/E OF RECORD: TG
DRAWN BY: WJW
CAD FILE: FSC-C-201.1
SCALE: 1" = 20'
GRAPHIC SCALE:
0" 1"
TITLE:
GRAVEL WETLAND PLAN
DRAWING NO:
C-201.1
SHEET: 7 OF 13



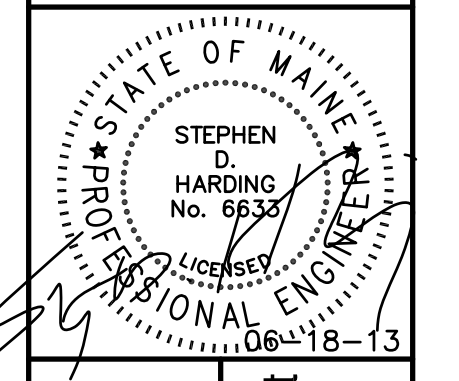
NOTES:

1. WETLAND SOIL TO BE MANUFACTURED USING COMPOST, SAND AND FINE SOIL. SOIL SHALL CONTAIN GREATER THAN 15% ORGANIC MATTER. CLAY CONTENT OF THE SOIL SHALL BE LESS THAN 15%. SUBMIT TESTS OF MATERIALS MEETING THE ABOVE.
2. PEA GRAVEL TO MEET MDOT SPECIFICATION 703.22 UNDERDRAIN TYPE C.
3. SEED GRAVEL WETLAND WITH "NEW ENGLAND WET MIX" FROM NEW ENGLAND WETLAND PLANTS. APPLICATION RATE 1LB/2500 SQ. FT. (18LBS/ACRE).

CONSTRUCTION OVERSIGHT NOTE:
 INSPECTION BY A PROFESSIONAL ENGINEER WILL CONSIST OF VISITS TO THE SITE TO INSPECT THE INSTALLATION OF EACH POND EMBANKMENT CONSTRUCTION, STORMWATER INLET, SUBGRADE, UNDERDRAIN LAYOUT AND BACKFILL, INSTALLATION OF PEA GRAVEL AND WETLAND SOIL AND SLOPE STABILIZATION.



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June 18, 2013

PROJECT: Long Creek Watershed Management District
 CATCHMENT C-08

FAIRCHILD SEMICONDUCTOR, WESTERN AVE., SOUTH PORTLAND, MAINE

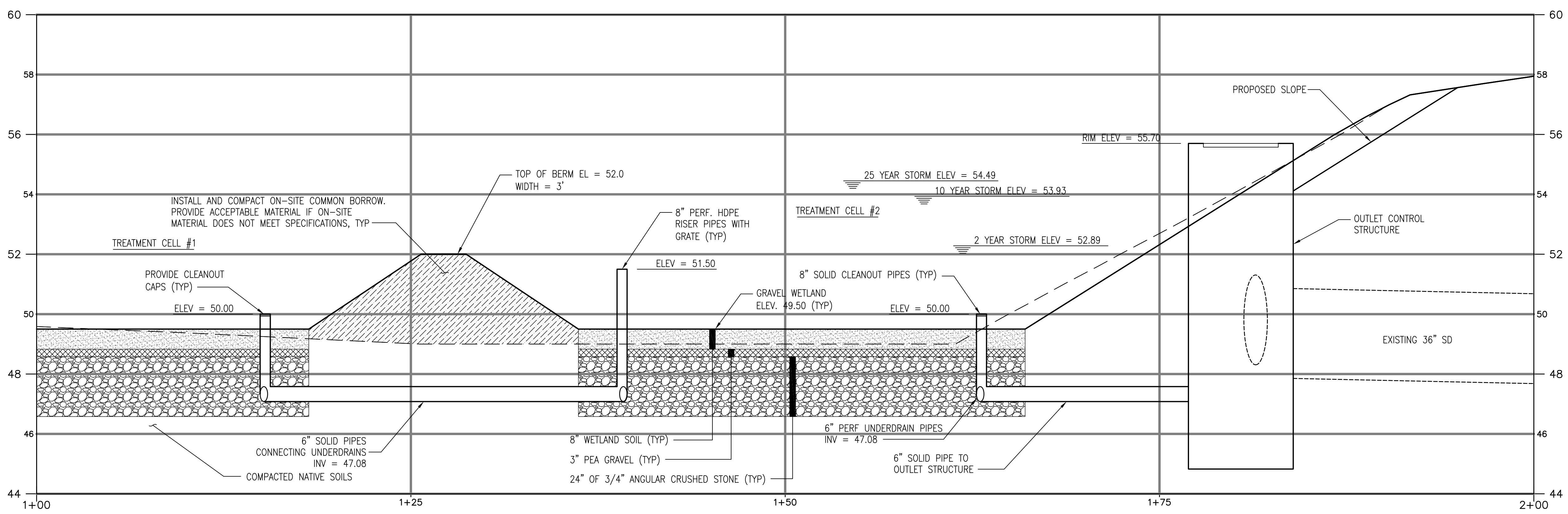
REV	REVISION	ISSUE DESCRIPTION	DATE

PROJECT NUMBER: 3618128199
 PROJECT MANAGER: TG
 A/E OF RECORD: TG
 DRAWN BY: WJW
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 SCALE: 1" = 20'
 GRAPHIC SCALE:
 0" 1"

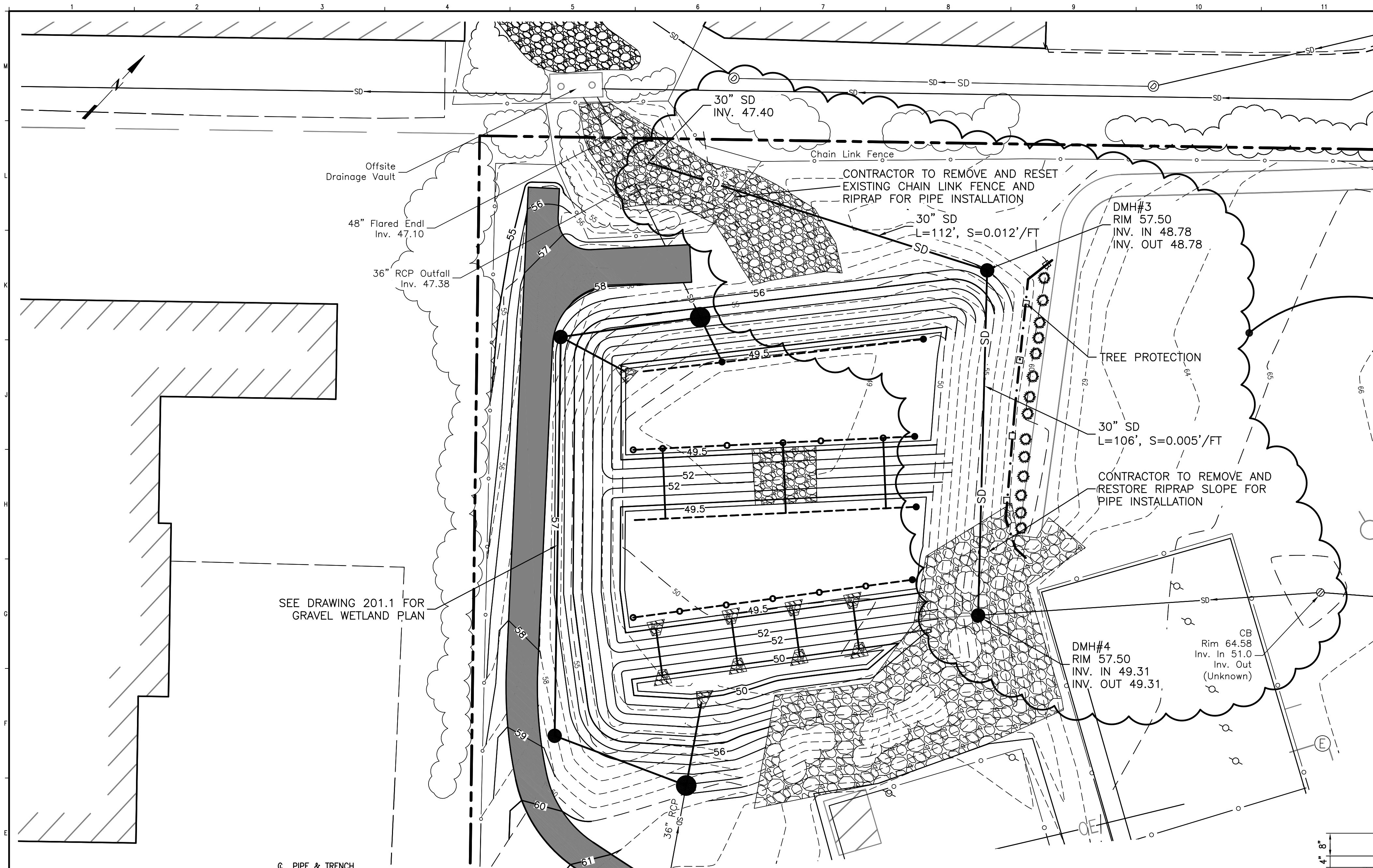
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GRAVEL WETLAND SECTIONS

DRAWING NO:
C-201.2

SHEET: 8 OF 13



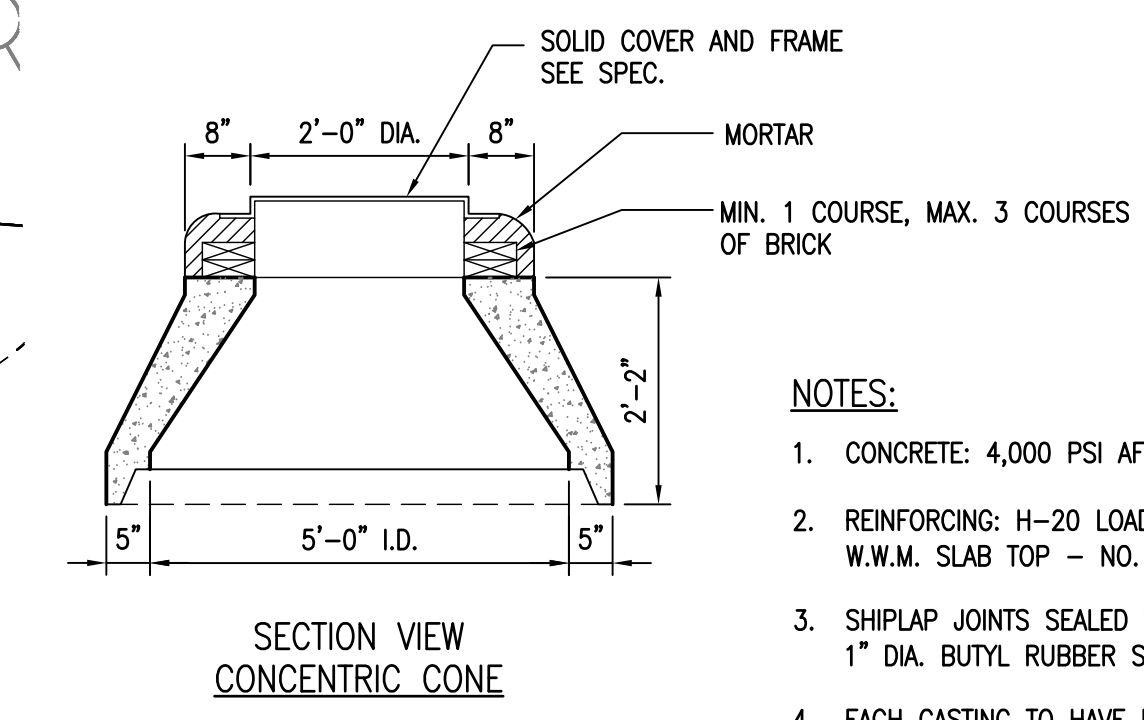
1 GRAVEL WETLAND SECTION
 SCALE: H: 1" = 4' V: 1" = 2'



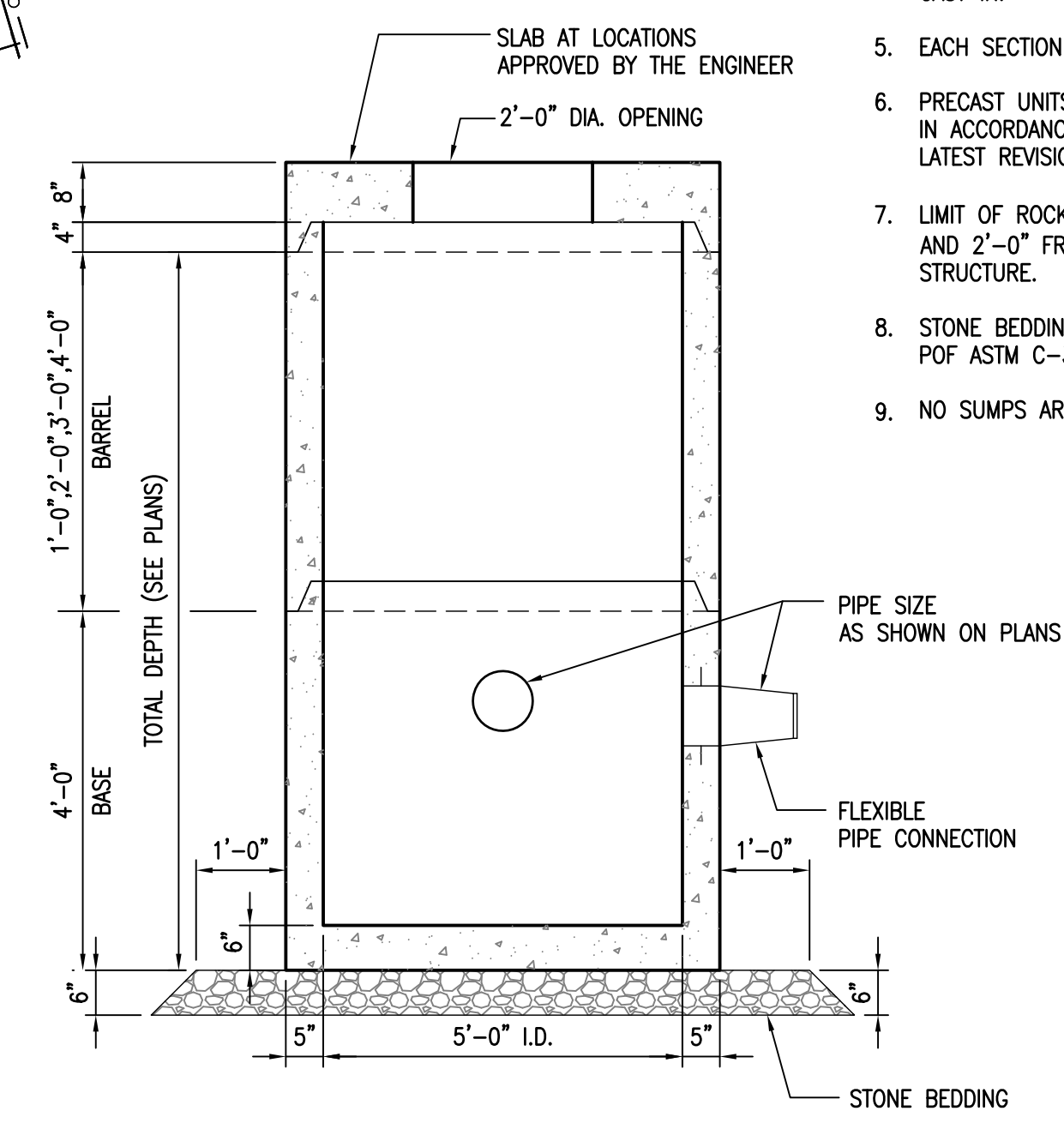
PIPE REALIGNMENT PLAN
SCALE: 1" = 20'

- NOTE:**
- SEE SHEET G-002 FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES.
 - UNLESS OTHERWISE NOTED, DRAIN MANHOLES SHALL BE FIVE FOOT DIAMETER.
 - CONTRACTOR TO REPLACE FABRIC AND RIPRAP FOR EMBANKMENT SLOPE AND SPILLWAY IN KIND.

NOTE:
DUE TO THE ADJACENT TEXAS INSTRUMENT STORMWATER PROJECT, CONTRACTOR SHALL PERFORM THE 30" PIPE RE-ALIGNMENT FIRST IN THE PROJECT'S CONSTRUCTION SEQUENCE.

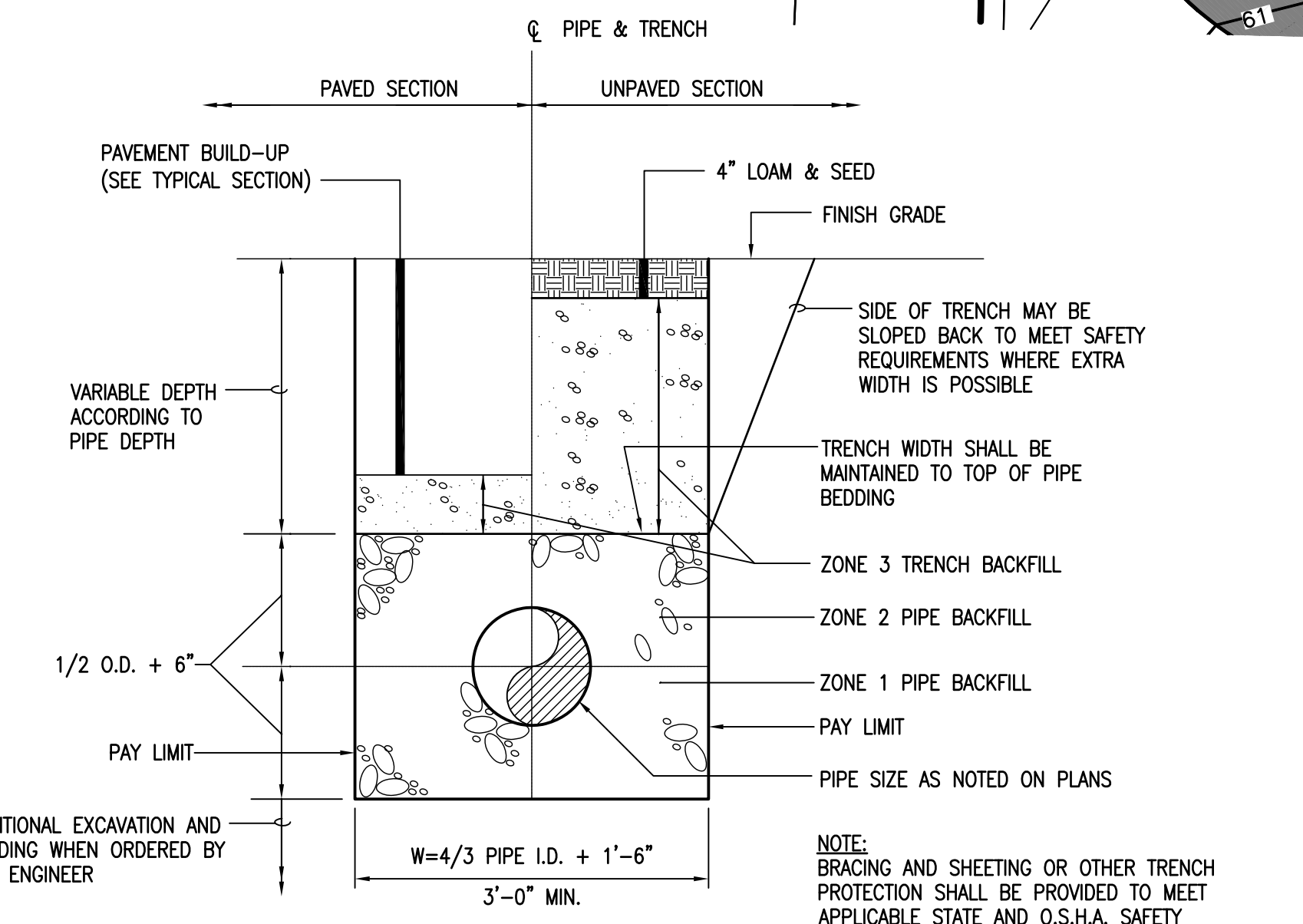


SECTION VIEW CONCENTRIC CONE



SECTION VIEW

- NOTES:**
- CONCRETE: 4,000 PSI AFTER 28 DAYS, MIN.
 - REINFORCING: H-20 LOADING, 4X4/4X4 W.W.M. SLAB TOP - NO. 5'S @ 8" O.C.
 - SHIPLAP JOINTS SEALED WITH 1 STRIP OF 1" DIA. BUTYL RUBBER SEALANT.
 - EACH CASTING TO HAVE LIFTING HOLES CAST IN.
 - EACH SECTION TO BE LABELED AS NOTED.
 - PRECAST UNITS SHALL BE MANUFACTURED IN ACCORDANCE WITH ASTM C-478, LATEST REVISION.
 - LIMIT OF ROCK EXCAVATION SHALL BE 6" BELOW AND 2'-0" FROM THE EXTERIOR FACE OF THE STRUCTURE.
 - STONE BEDDING SHALL MEET THE REQUIREMENTS POF ASTM C-33 STONE SIZE NO. 67.
 - NO SUMPS ARE REQUIRED IN DRAIN MANHOLES.

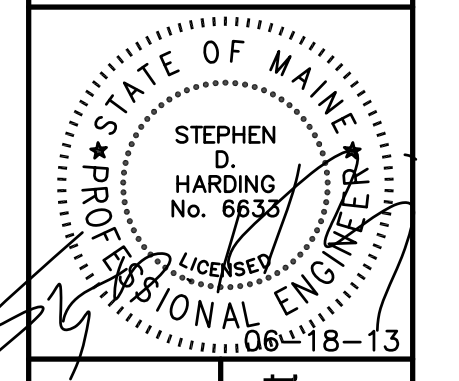


TYPICAL STORM DRAIN TRENCH SECTION
SCALE: NTS

2 CONCRETE DRAIN MANHOLE
SCALE: NTS



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June 18, 2013

PROJECT: Long Creek Watershed Management District
CATCHMENT C-08
FAIRCHILD SEMICONDUCTOR, WESTERN AVE., SOUTH PORTLAND, MAINE

REV	REVISION	ISSUE DESCRIPTION	DATE

PROJECT NUMBER: 3618128199
PROJECT MANAGER: TG
A/E OF RECORD: TG
DRAWN BY: WJW
CAD FILE: FSC-C-201.3
SCALE: 1" = 20'
GRAPHIC SCALE:
0" 1"

TITLE:
PIPE REALIGNMENT PLAN

DRAWING NO:
C-201.3
SHEET: 9 OF 13

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PLANT SCHEDULE

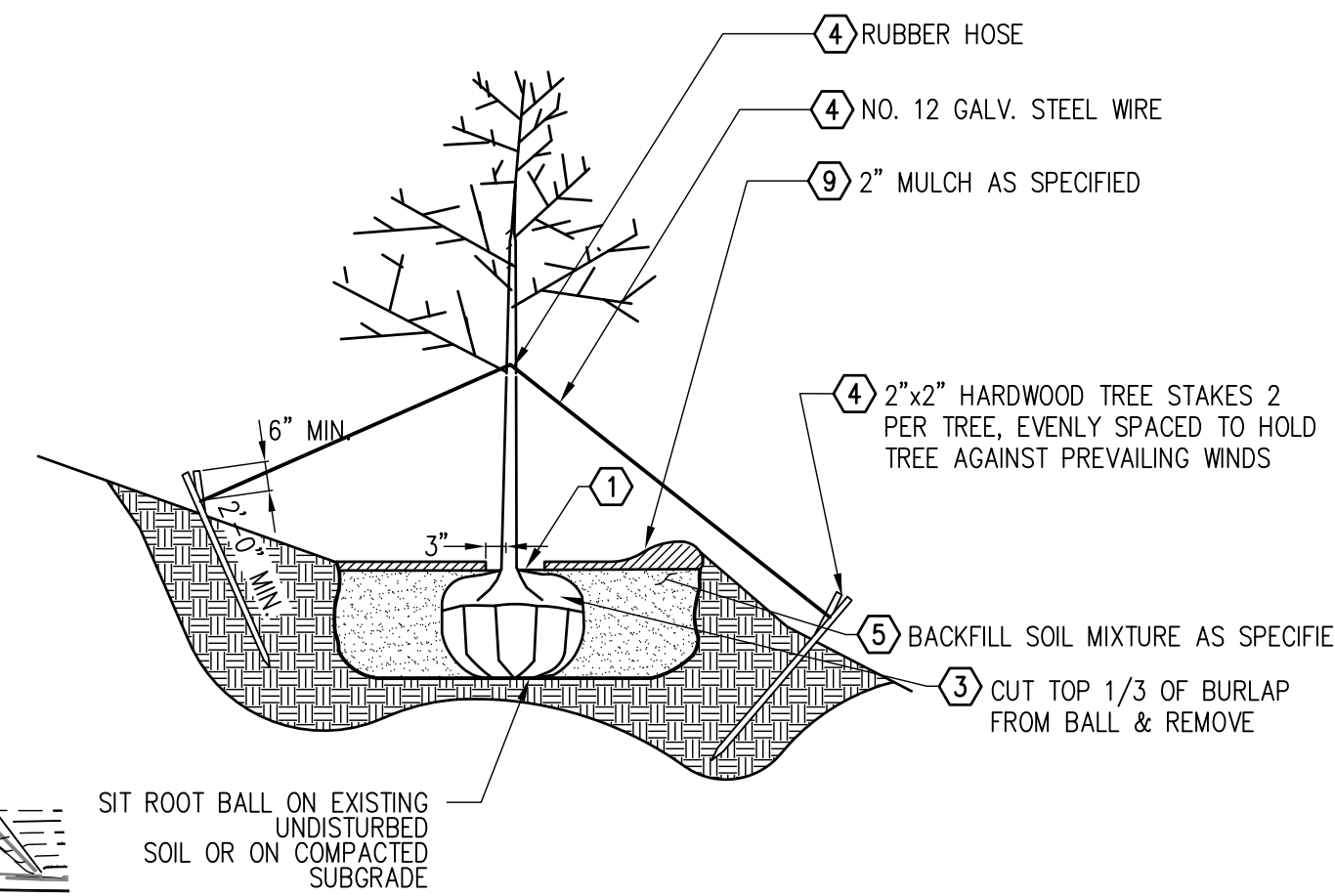
SYMBOL	QTY.	BOTANICAL NAME	COMMON NAME	HEIGHT	SPACING
UA	14	ULMUS AMERICANA 'VALLEY FORGE'	VALLEY FORGE ELM	1.5-2"	AS SHOWN
F	9,000	WALDSTEINIA TERNATA	BARREN STRAWBERRY	1.75" PLUG	12" OC

NOTE:

- SEE SHEET G-001 FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES.

LANDSCAPE MATERIAL NOTES:

- THE LANDSCAPE CONTRACTOR SHALL SUPPLY AND INSTALL ALL PLANTS IN SUFFICIENT QUANTITIES TO COMPLETE THE WORK AS SHOWN ON THE DRAWINGS. DISCREPANCIES BETWEEN QUANTITIES SHOWN ON THE DRAWINGS AND THE PLANT LIST SHALL BE REPORTED IMMEDIATELY TO THE LANDSCAPE ARCHITECT AND SHALL NOT ENTITLE THE CONTRACTOR TO ADDITIONAL COMPENSATION.
- THE LANDSCAPE CONTRACTOR IS ADVISED THAT BOTH ABOVE AND BELOW GROUND UTILITIES WILL EXIST ON THE SITE, THE LOCATIONS SHOWN ON THE PROJECT DRAWINGS ARE LOCATED APPROXIMATELY AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF OPERATIONS. SHOULD THE LOCATION OF ANY PROPOSED PLANTING CONFLICT WITH ANY UTILITY, THE LANDSCAPE ARCHITECT SHALL BE NOTIFIED IMMEDIATELY FOR DECISION.
- ANY AND ALL PAVING, CURBING, UTILITIES, LAWNS, ETC., DAMAGED AS A RESULT OF THE LANDSCAPE CONTRACTOR'S OPERATIONS SHALL BE REPLACED OR REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- ALL BEDS AND TREE PITS SHALL RECEIVE 2" WELL ROTTED BLACK PINE BARK MULCH. MULCH SHALL BE FREE OF WEED SEEDS, SOIL, ROOTS OR ANY OTHER SUBSTANCE NOT CONSISTENT OF BARK. MULCH MAY NOT BE MORE THAN ONE YEAR OLD OR FRESH.
- LOCATIONS OF PROPOSED PLANTINGS SHALL BE REVIEWED AND APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
- THE LANDSCAPE CONTRACTOR SHALL RELOCATE ANY PLANT AT THE DIRECTION OF THE LANDSCAPE ARCHITECT.
- ALL PLANTS SHALL HAVE A NORMAL HABIT OF GROWTH FOR THE SPECIES AND SHALL BE SOUND, HEALTHY, AND FREE OF DISEASE AND INSECTS. THEY SHALL CONFORM TO THE MEASUREMENTS ON THE PLANT LIST SHALL CONFORM TO THE SPECIFICATIONS OF THE "AMERICAN STANDARDS FOR NURSERY STOCK BY THE AMERICAN ASSOCIATION OF NURSERYMEN".
- IF, DUE TO CULTURAL REQUIREMENTS, AVAILABILITY, OR OTHER CIRCUMSTANCES, THE LANDSCAPE CONTRACTOR BELIEVES A PARTICULAR PLANT SPECIFIED FOR USE IS INAPPROPRIATE, THE LANDSCAPE CONTRACTOR SHALL REPORT THE SITUATION IMMEDIATELY TO THE LANDSCAPE ARCHITECT FOR DECISION.
- ALL DISTURBED AREAS NOT OTHERWISE SPECIFIED SHALL RECEIVE GRASS SEED.
- ALL PLANTS SHALL HAVE ALL NON-BIODEGRADABLE MATERIALS (STRING, POTS, ETC.) REMOVED AT THE TIME OF PLANTING. CIRCLING ROOTS OR ROOTS THAT WOULD LATER GIRDLING THE PLANT SHALL BE STRAIGHTENED, CUT OR THE ROOT BALL SHALL BE CUT UTILIZING THE "BUTTERFLY METHOD". TOP 1/3 OF WIRE BASKETS AND BURLAP ON TREES SHALL BE CUT AND REMOVED.
- ALL PLANTINGS SHALL HAVE SLOW RELEASE FERTILIZER INSTALLED AT THE TIME OF PLANTING. THE FERTILIZER SHALL BE "ROOTS TRANSPLANT 1 STEP", INSTALLED/APPLIED ACCORDING TO MANUFACTURERS INSTRUCTIONS. THE LANDSCAPE CONTRACTOR SHALL NOT INSTALL ANY PLANT MATERIAL UNLESS APPROPRIATE WATERING EQUIPMENT IS ON SITE. ALL PLANTS SHALL BE ADEQUATELY WATERED THE DAY OF INSTALLATION OR THESE PLANTS WILL BE REJECTED AND REPLACED BY THE LANDSCAPE CONTRACTOR AT NO COST TO THE OWNER. LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR WATERING MAINTENANCE UNTIL FINAL ACCEPTANCE.
- PLANT SPECIES AND PLANT SIZE SUBSTITUTIONS WILL NOT BE ALLOWED UNLESS FIRST APPROVED BY THE LANDSCAPE ARCHITECT. ANY SUBSTITUTED PLANTS INSTALLED WITHOUT PRIOR APPROVAL WILL BE REJECTED.
- ALL PLANTS SHALL BE GUARANTEED FOR ONE GROWING SEASON (1 YEAR FROM THE DATE OF ACCEPTANCE). THE LANDSCAPE CONTRACTOR, AT NO COST TO THE OWNER, SHALL REPLACE ANY, AND ALL PLANTS THAT DIE DURING THE GUARANTEE PERIOD.

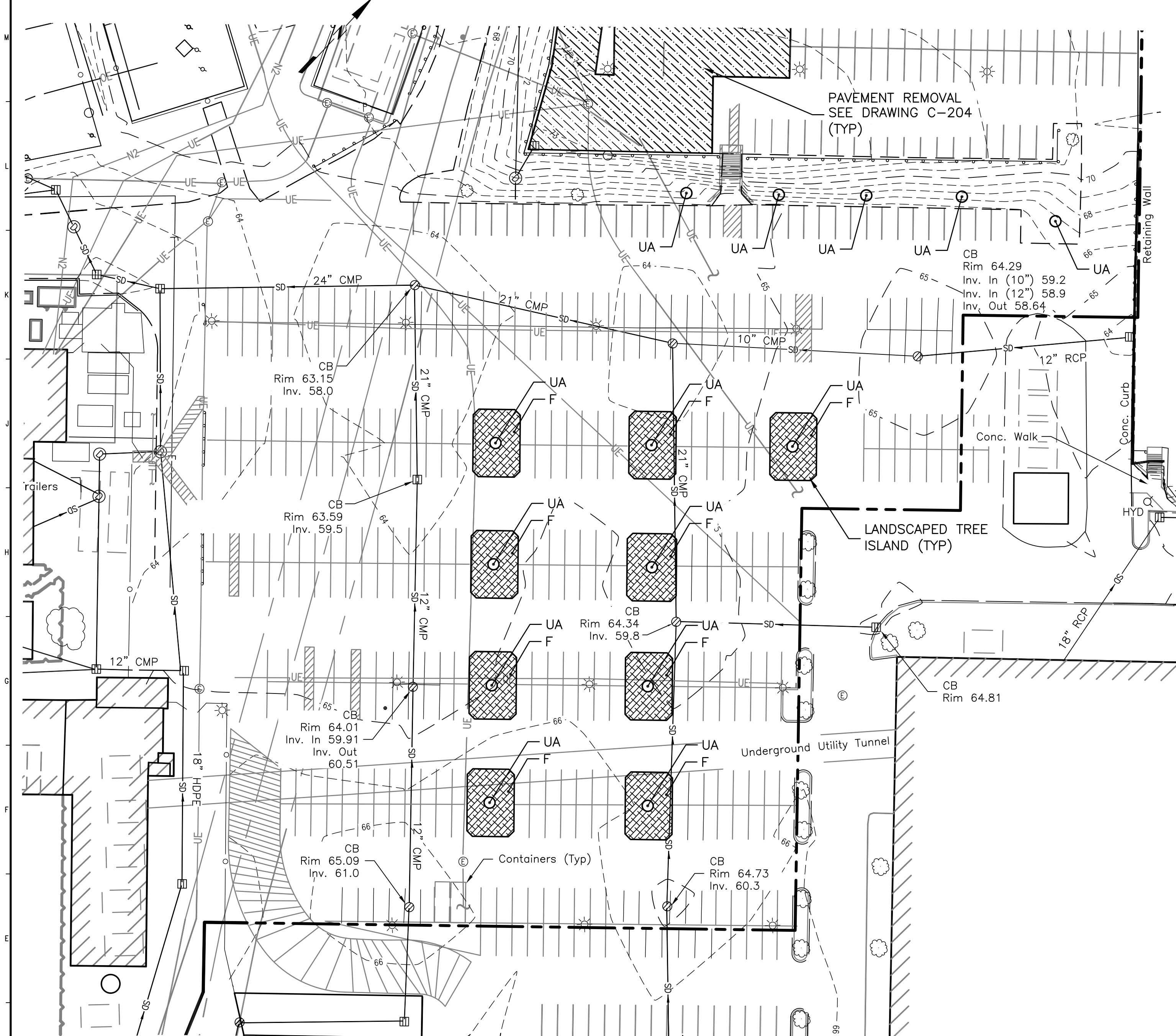


1 SLOPE TREE PLANTING

SCALE: NTS

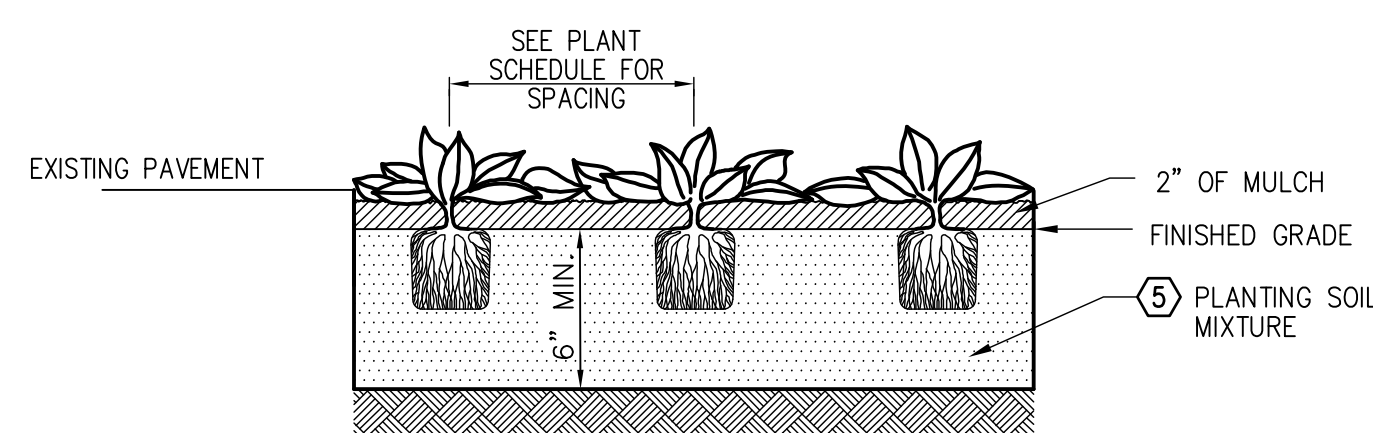
TREE PLANTING NOTES

- LOCATE THE POINT AT WHICH TRUNK FLARE BEGINS. THIS MAY REQUIRE SOME REMOVAL OF SOIL FROM THE TOP OF THE ROOTBALL.
- DIG BASE OF HOLE 2-3 TIMES WIDTH OF ROOTBALL AND AS DEEP AS THE ROOTBALL (NO DEEPER!) MEASURE FROM BASE OF TRUNK FLARE TO BOTTOM OF ROOTBALL. SET ROOTBALL CENTERED, WITH TRUNK FLARE AT GROUND LEVEL OR SLIGHTLY HIGHER. CORRECT HOLE DEPTH AS NEEDED. TREES THAT ARE PLANTED TOO DEEPLY WILL BE REJECTED AND SHALL BE REPLANTED AT NO ADDITIONAL COST TO THE OWNER.
- IF ROOTBALL IS IN THE CONTAINER, REMOVE CONTAINER AND CUT 4 OR 5 SHALLOW VERTICAL SLASHES INTO ROOTBALL TO BREAK ANY PATTERNS OF CIRCULAR GROWTH. GENTLY COMB OUT ROOTS. PRUNE DAMAGED ROOTS. IF ROOTBALL IS IN NATURAL FIBER BURLAP, AND THE PLANT IS PUT IN THE PLANTING HOLE, REMOVE ROPES AND THE TOP 1/3 OF BURLAP. DO NOT TRY TO REMOVE THE ENTIRE BURLAP OR THE WIRE BASKET.
- 2" X 2" OR 2 1/2" DIAMETER STAKES WITH 2 #12 GAUGE WIRES ENCASED IN 2-PLY REINFORCED RUBBER HOSE 1/2" DIAMETER OR CHAIN LINK AS APPROVED BY LANDSCAPE ARCHITECT. 2 STAKES LOCATED 180 DEGREES APART (STAKES SHALL BE FIRMLY SET TO PROVIDE NECESSARY TENSION AND SUPPORT AGAINST PREVAILING WIND DIRECTION). STAKES SHALL BE REMOVED AFTER 1 YEAR.
- AFTER THE PLANT IS IN THE HOLE, BACKFILL 3/4 OF THE WAY TO THE TOP OF THE ROOTBALL WITH THE FOLLOWING MIXES: FOR DECIDUOUS AND NEEDLED EVERGREEN TREES AND SHRUBS OR TOP SOIL, 2 SHOVELS PEAT, 1 SHOVEL WELL ROTTED MANURE, OR OTHER COMPOSTED ORGANIC MATERIAL. PLANTING SOIL MIXTURE FOR GROUND COVER BEDS SHALL CONSIST OF 4 PARTS TOPSOIL, 2 PARTS SPHAGNUM PEAT MOSS AND ONE PART HORTICULTURAL PERLITE BY VOLUME. PEAT MOSS MAY BE SUBSTITUTED WITH WELL-ROTTED OR DEHYDRATED MANURE OR COMPOST.
- FILL THE HOLE WITH WATER TWICE, THEN BACKFILL THE REST OF THE WAY, WATER AGAIN.
- TAMP SOIL LIGHTLY AROUND ROOTBALL.
- USE LIQUID ROOT STIMULATOR WITH INITIAL WATERING AND CONTINUE AT 2 WEEK INTERVALS.
- APPLY MULCH 2" DEEP TO RETAIN MOISTURE AND DISCOURAGE WEED GROWTH. DO NOT MULCH WITHIN 3"-4" OF THE MAIN TRUNK AREA.
- MAINTENANCE THE FIRST YEAR
WATERING: DEEP, WEEKLY WATERING IS A MUST. FALL WATERING UP UNTIL THE GROUND FREEZES IS ALSO CRITICAL. THIS WATER MUST PENETRATE TO THE DEPTH OF THE ROOTBALL TO BE ADEQUATE. A NEWLY-INSTALLED PLANT DOES NOT HAVE AN ESTABLISHED ROOT SYSTEM, THEREFORE, IT IS MUCH MORE SUSCEPTIBLE TO EXTREMELY DRY OR WET CONDITIONS.
FERTILIZING: AN AMENDED SOIL MIX WILL PROVIDE MOST OF THE NUTRIENTS A PLANT REQUIRES FOR THE FIRST SEASON. A 100% ORGANIC FERTILIZER OR AMENDMENT INCORPORATED AT THE TIME OF PLANTING IS BENEFICIAL; SUPPLEMENTAL APPLICATIONS OF A ROOT STIMULANT ARE AN EXCELLENT BOOST FOR THE ROOT SYSTEM.



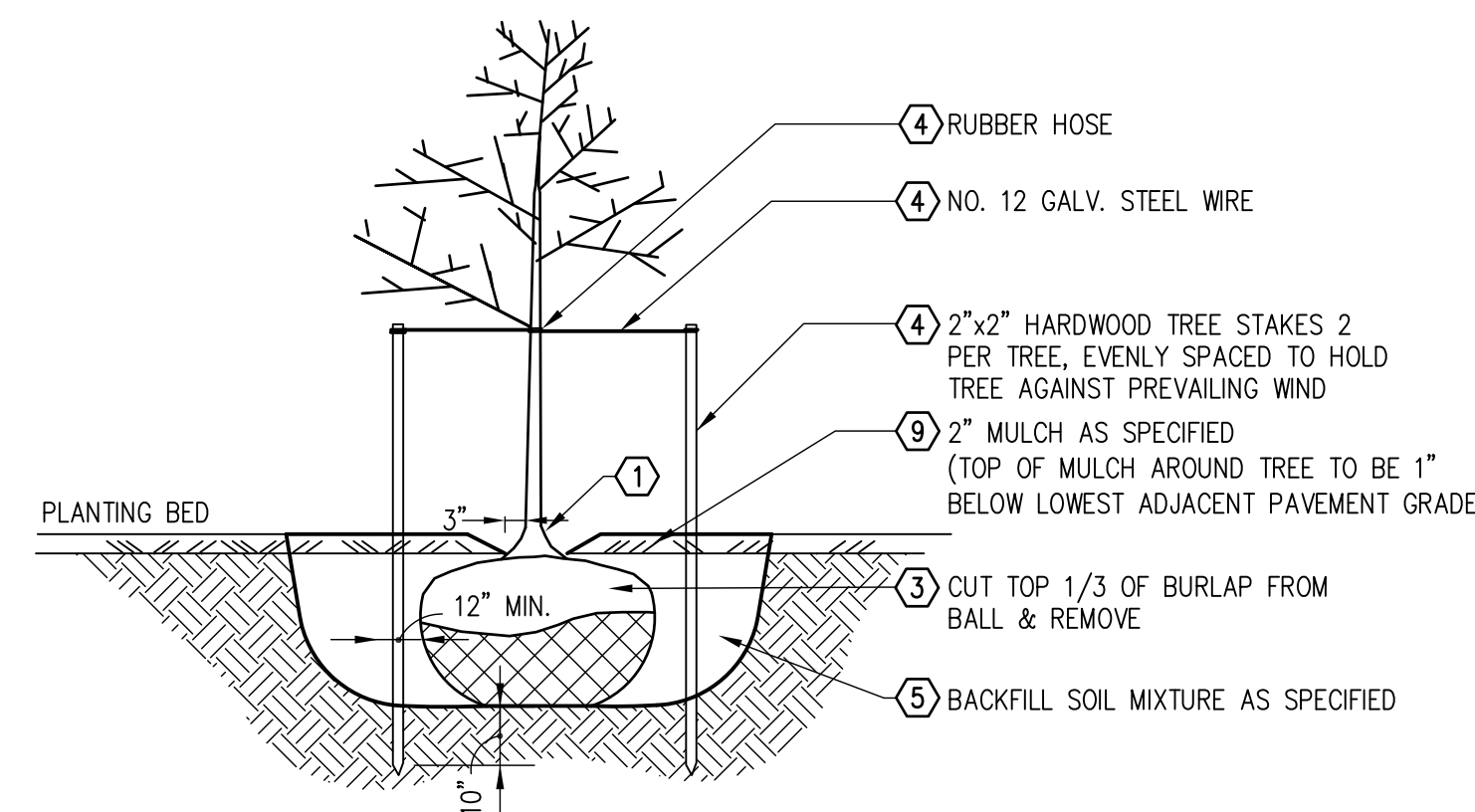
TREE ISLAND PLAN

SCALE: 1" = 40'



2 GROUND COVER PLANTING BED DETAIL

SCALE: NTS

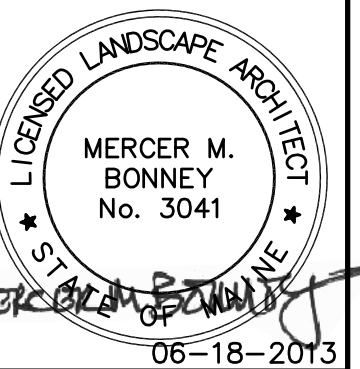


3 TREE ISLAND PLANTING DETAIL

SCALE: NTS

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June 18, 2013

PROJECT:
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CATCHMENT C-08

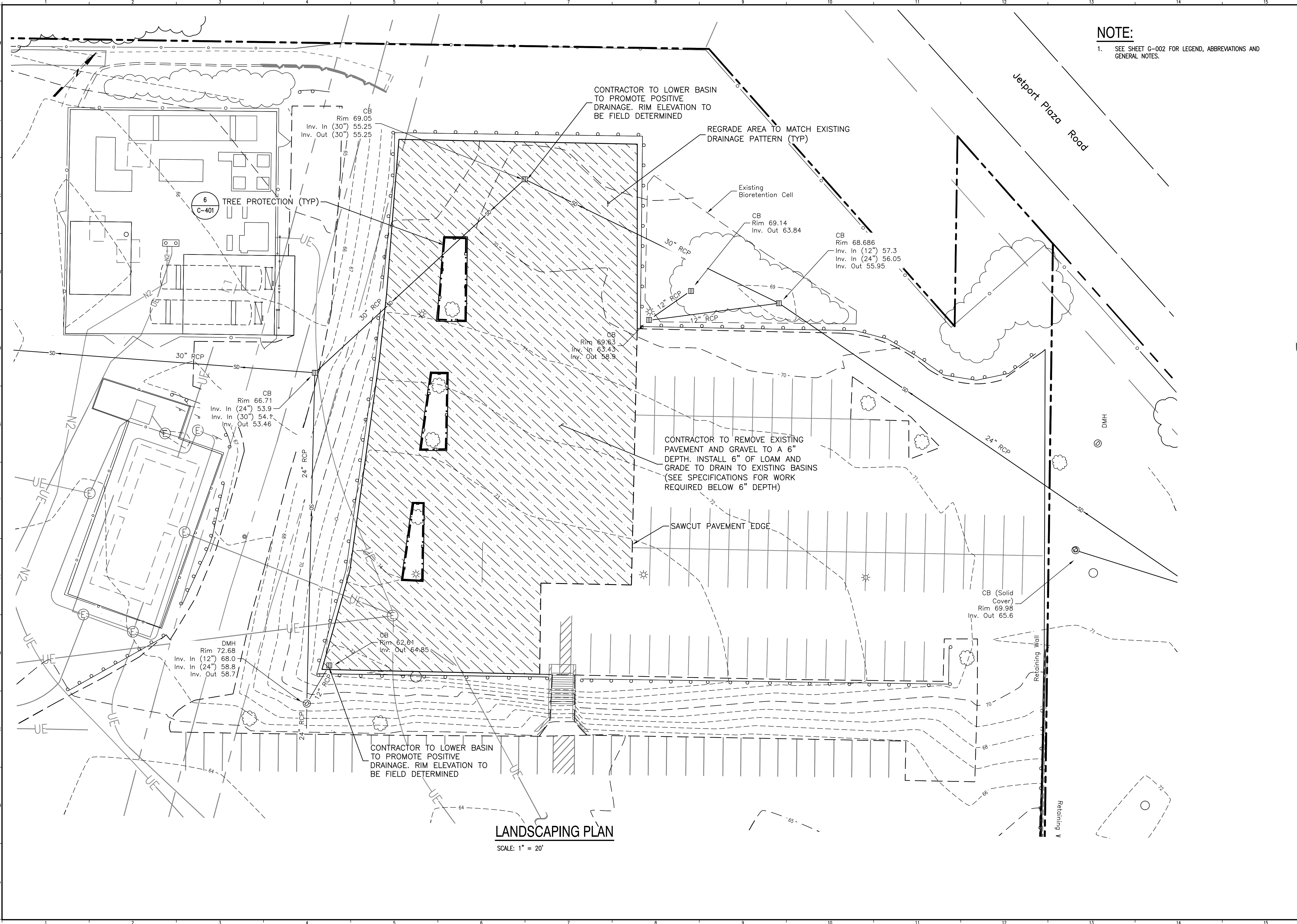
FAIRCHILD SEMICONDUCTOR, WESTERN AVE., SOUTH PORTLAND, MAINE

REV	REVISION	ISSUE DESCRIPTION	DATE

PROJECT NUMBER:	3618128199
PROJECT MANAGER:	TG
A/E OF RECORD:	TG
DRAWN BY:	WJW
CAD FILE:	FSC-C-202
SCALE:	1" = 40'
GRAPHIC SCALE:	0" 1"
TITLE:	TREE ISLAND LOCATION AND PLANTING PLAN
DRAWING NO.:	C-202
SHEET:	10 OF 13

NOTE:

1. SEE SHEET G-002 FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES.

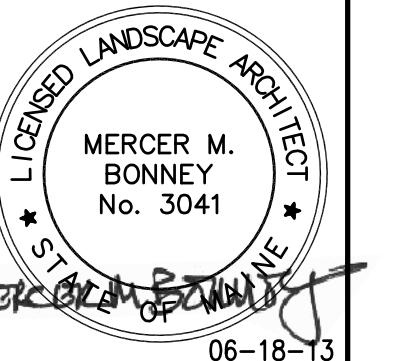


LANDSCAPING PLAN

SCALE: 1" = 20'



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June 18, 2013

PROJECT:
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 CATCHMENT C-08

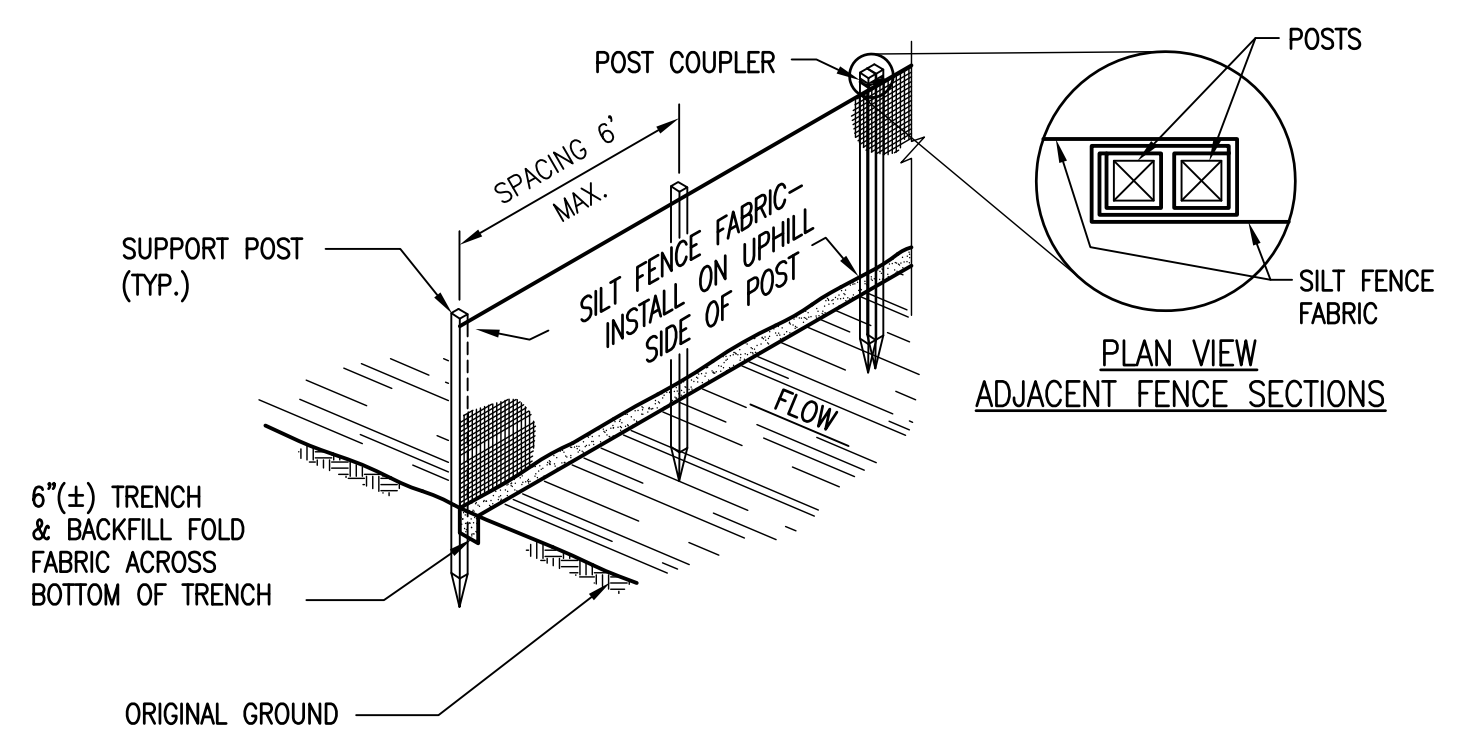
FAIRCHILD SEMICONDUCTOR, WESTERN AVE., SOUTH PORTLAND, MAINE

REV	REVISION	DESCRIPTION	DATE

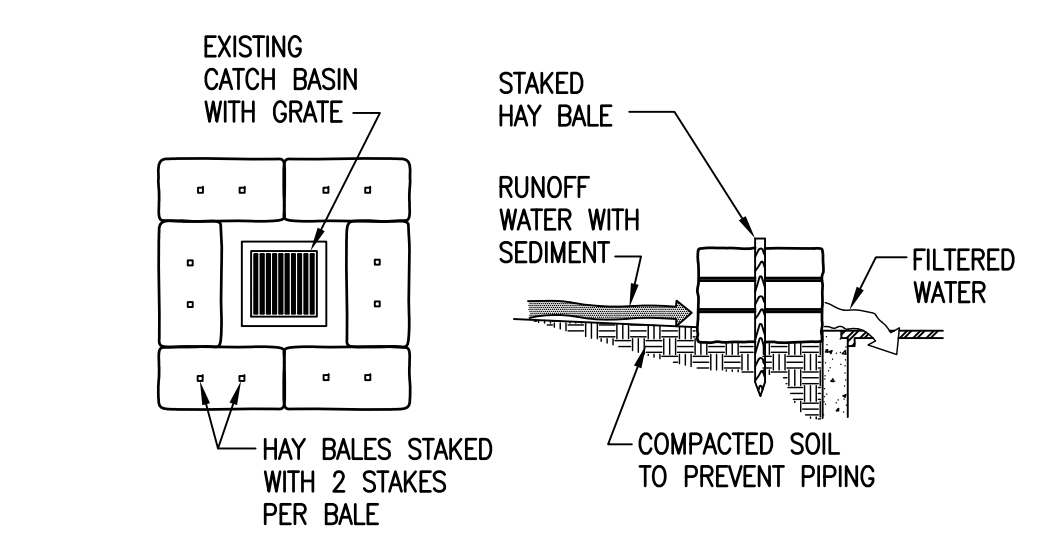
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 PROJECT MANAGER: TG
 A/E OF RECORD: TG
 DRAWN BY: WJW
 CAD FILE: FSC-C-203
 SCALE: 1" = 20'
 GRAPHIC SCALE:
 0" 1"

TITLE:
 UPPER PARKING LOT
 LANDSCAPING PLAN

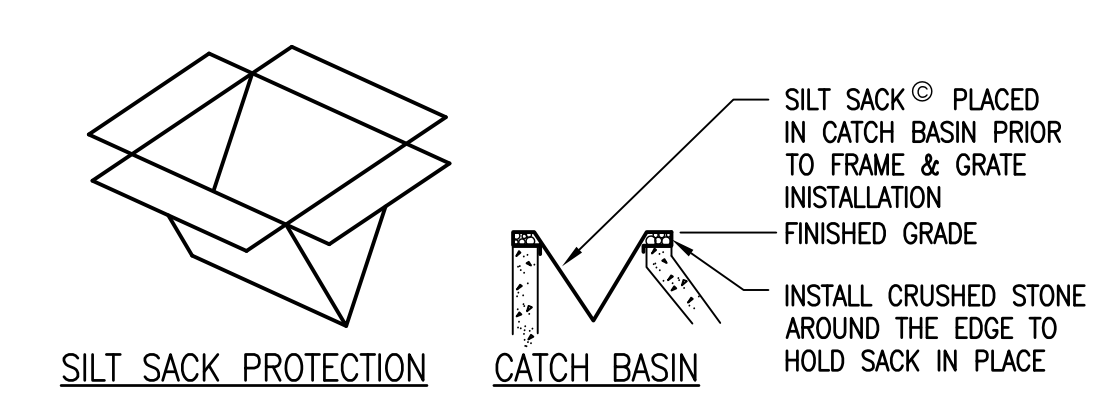
DRAWING NO:
C-203
 SHEET: 11 OF 13



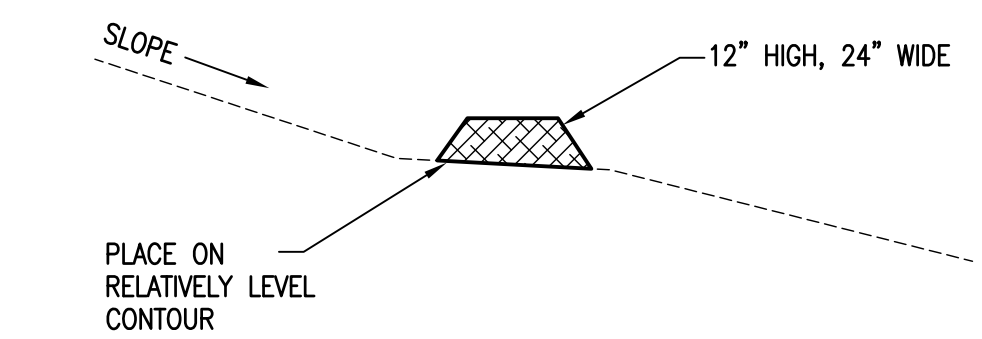
1 **SILTATION FENCE INSTALLATION DETAIL**
SCALE: N.T.S.



2 **HAY BALE SEDIMENT FILTER**
SCALE: N.T.S.



3 **CATCH BASIN PROTECTION (PAVED AREAS)**
SCALE: N.T.S.

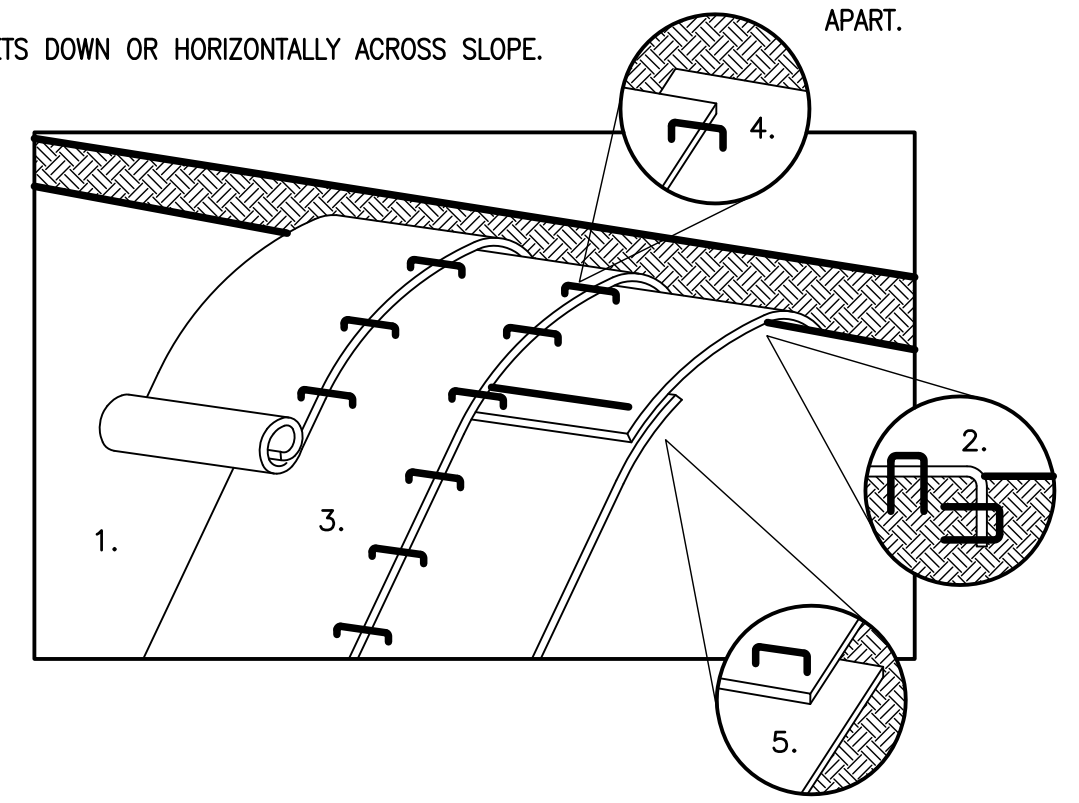


4 **EROSION CONTROL MIX BERM**
SCALE: N.T.S.

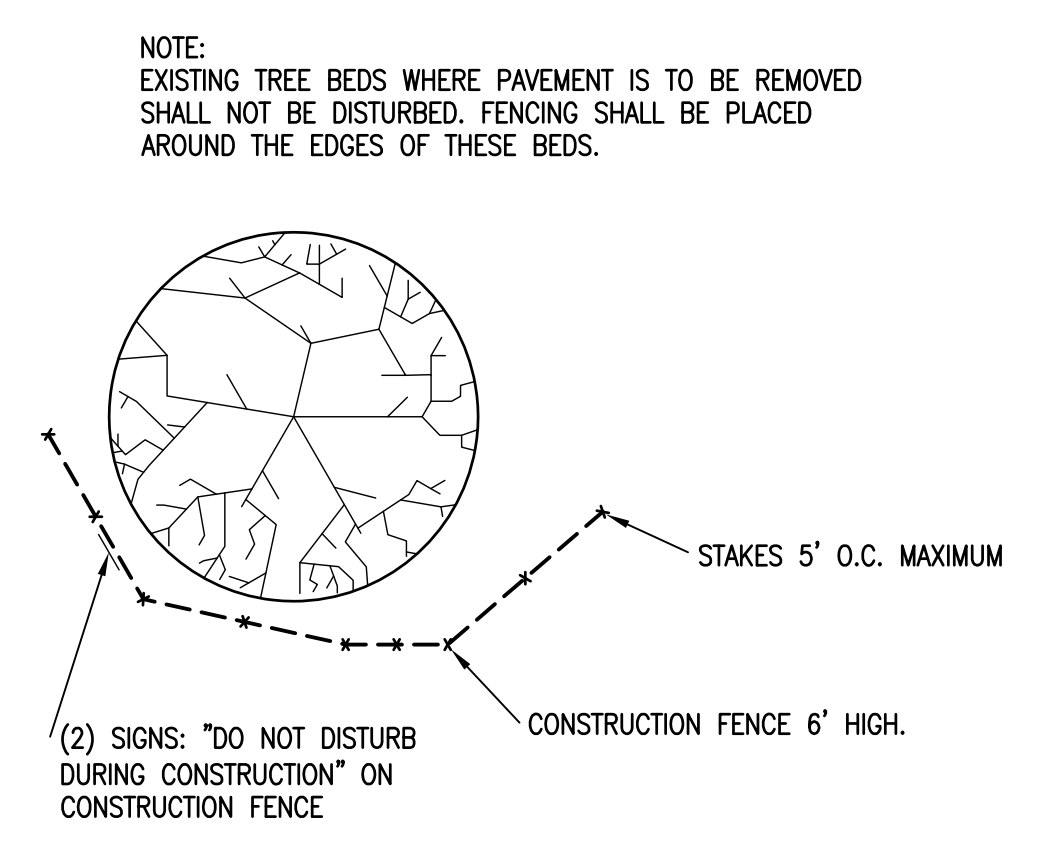
NOTE:
COMPOSITION OF BERM SHALL CONTAIN A WELL-GRADED MIXTURE OF PARTICLES SIZES AND MAY CONTAIN ROCKS LESS THAN 4" IN DIA. EROSION CONTROL MIX MUST BE FREE OF REFUSE, PHYSICAL CONTAMINANTS AND MATERIAL TOXIC TO PLANT GROWTH. THE MIX COMPOSITION SHALL MEET THE FOLLOWING STANDARDS:
-ORGANIC MATTER CONTENT SHALL BE BETWEEN 80 AND 100% DRY WEIGHT BASIS.
-PARTICLE SIZE BY WEIGHT SHALL BE 100% PASSING A 6" SCREEN AND A MIN. OF 70% MAX. OF 85% PASSING A 0.75" SCREEN.
-ORGANIC PORTION NEEDS TO BE FIBROUS AND ELONGATED.
-LARGE PORTIONS OF SILTS, CLAYS OR FINE SANDS ARE NOT ACCEPTABLE IN THE MIX.
-SOLUBLE SALTS CONTENT SHALL BE <4.0 MMHOS/CM.
-PH SHOULD FALL BETWEEN 5.0 AND 8.0.

EROSION CONTROL BLANKET SHALL BE IN ACCORDANCE WITH MDOT STANDARD SPECIFICATIONS, SECTION 613, TEMPORARY EROSION CONTROL BLANKETS AND EXTENDED USE EROSION CONTROL BLANKETS.

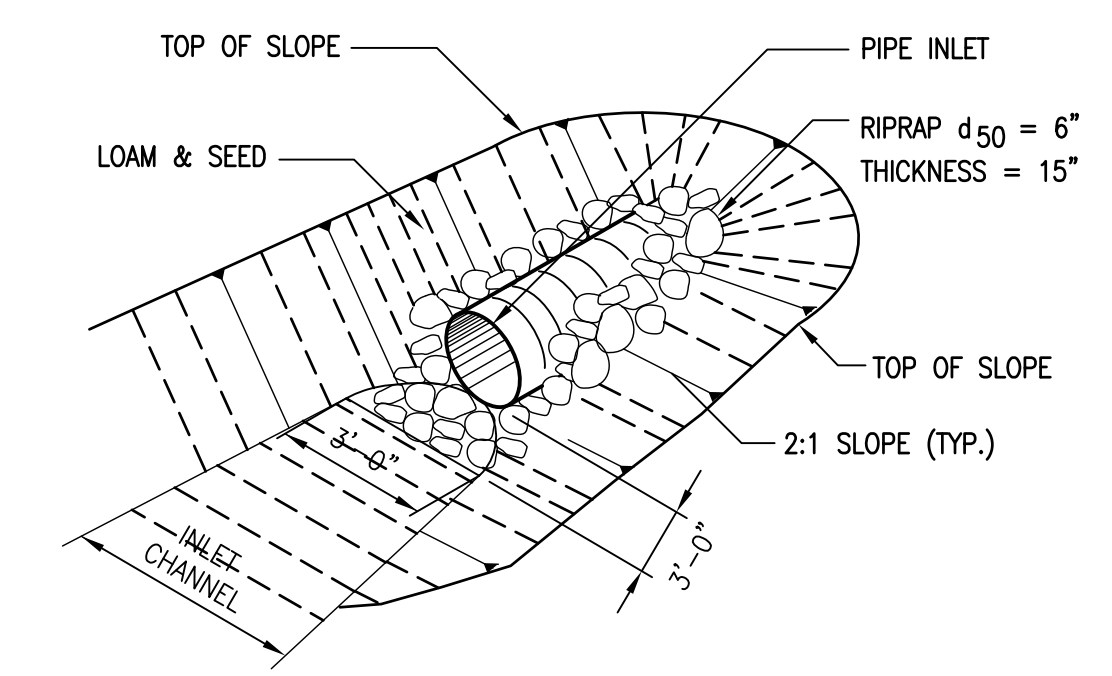
- PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING LIME, FERTILIZER & SEED.
- BEGIN AT TOP OF SLOPE BY ANCHORING BLANKET IN 6" X 6" TRENCH. BACKFILL & COMPACT TRENCH AFTER STAPLING.
- ROLL BLANKETS DOWN OR HORIZONTALLY ACROSS SLOPE.
- 4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROX. 2" OVERLAP.
- 5. WHEN BLANKETS MUST BE SPLICED DOWN THE SLOPE, PLACE BLANKETS END OVER END (SHINGLE STYLE) WITH APPROX. 4" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROX. 12" APART.



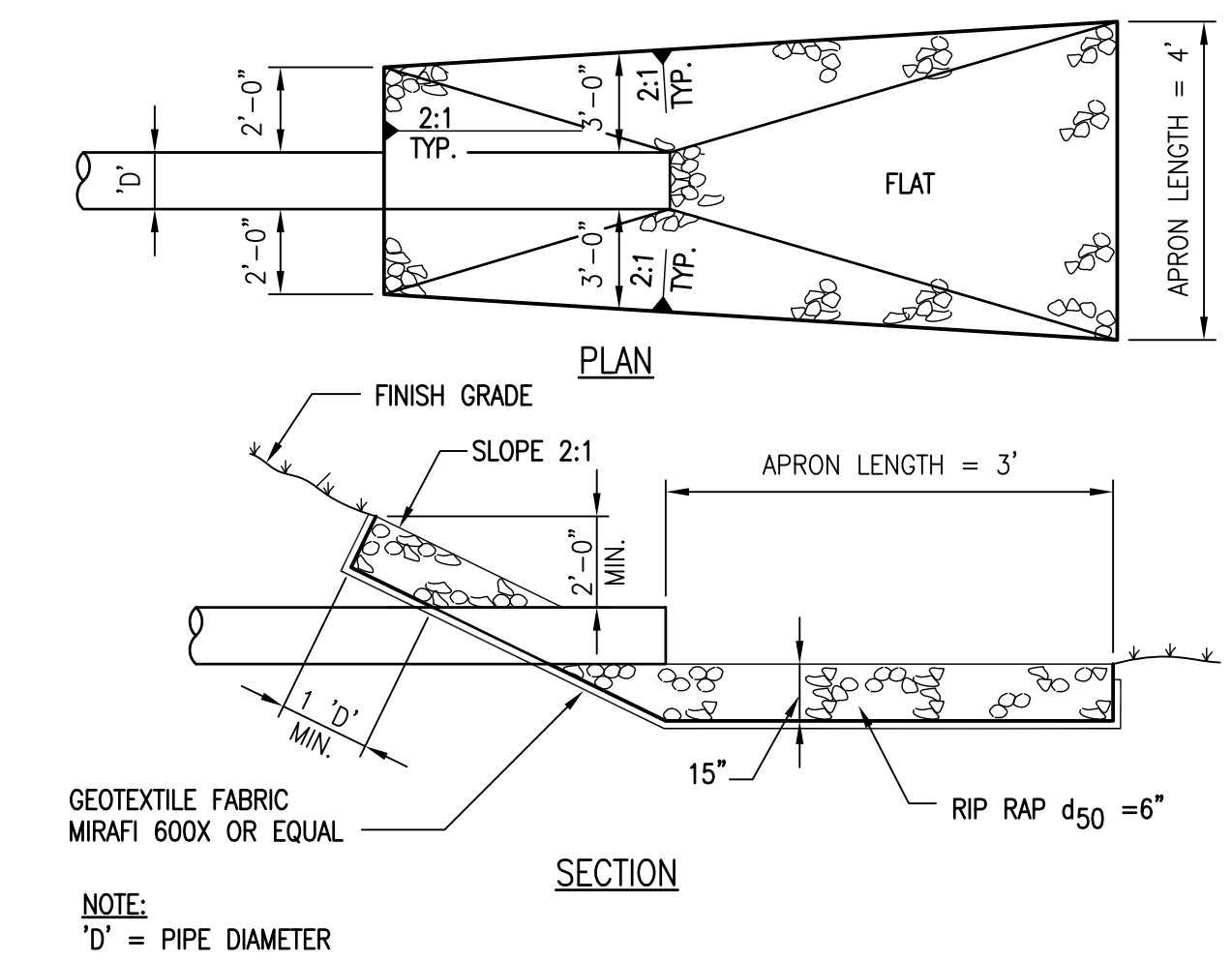
5 **SLOPE STABILIZATION DETAIL**
SCALE: N.T.S.



6 **TREE PROTECTION DETAIL**
SCALE: N.T.S.



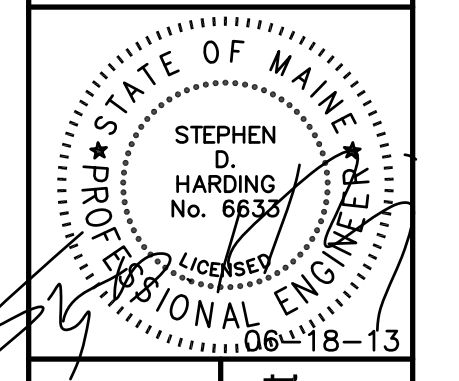
7 **RIP RAP INLET DETAIL**
SCALE: N.T.S.



8 **RIP RAP OUTLET DETAIL**
SCALE: N.T.S.



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June 18, 2013

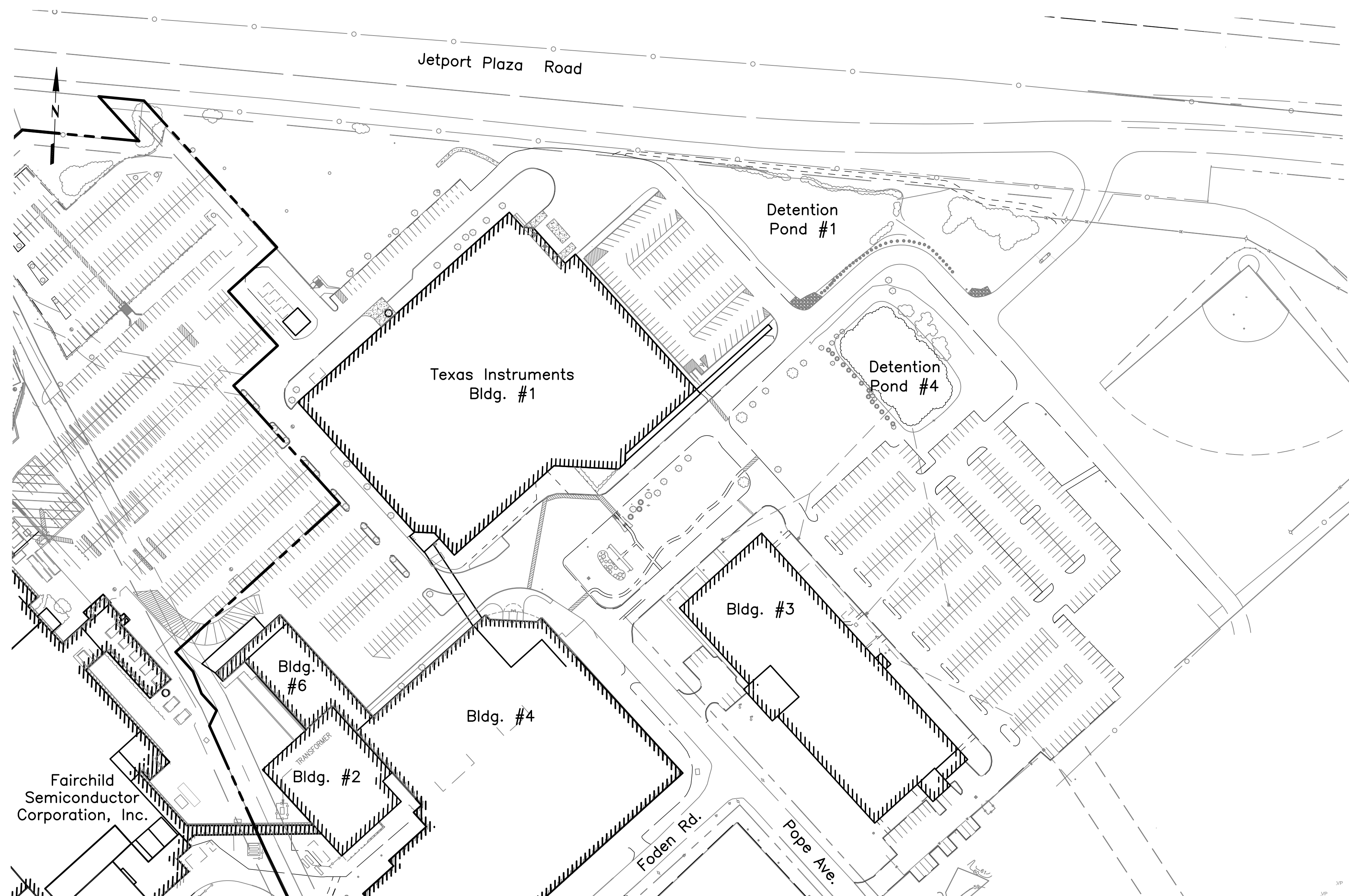
PROJECT: Long Creek Watershed Management District
CATCHMENT C-08
FAIRCHILD SEMICONDUCTOR, WESTERN AVE., SOUTH PORTLAND, MAINE

REV	REVISION	ISSUE DESCRIPTION	DATE

PROJECT NUMBER: 3618128199
PROJECT MANAGER: TG
A/E OF RECORD: TG
DRAWN BY: WJW
CAD FILE: FSC-C-401
SCALE: AS NOTED
GRAPHIC SCALE:
0" 1"

TITLE:
EROSION CONTROL DETAILS
DRAWING NO:
C-401
SHEET: 12 OF 13

LONG CREEK WATERSHED MANAGEMENT DISTRICT CATCHMENT C-08 STORMWATER IMPROVEMENTS AT TEXAS INSTRUMENTS, INC. Foden Road, South Portland, Maine



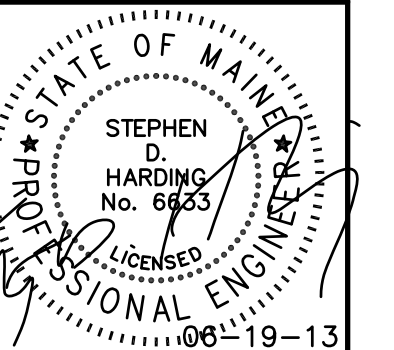
LOCATION MAP
SCALE: 1" = 100'

INDEX OF DRAWINGS

SHEET NO.	DWG. NO.	DRAWING TITLE
1	G-001	TITLE PLAN
2	G-002	NOTES AND LEGEND
3	C-101.2	EXISTING CONDITIONS PLAN
4	C-102.2	CONSTRUCTION ACCESS PLAN
5	C-103.2	DEMOLITION PLAN
6	C-104.2	OVERALL SITE LAYOUT PLAN
7	C-204.1	BIORETENTION CELLS #1 AND #2 PLAN
8	C-204.2	BIORETENTION CELLS #1 AND #2 LANDSCAPING PLAN
9	C-205.1	LOADING DOCK AREA IMPROVEMENTS PLAN
10	C-205.2	BIORETENTION CELL #3 LANDSCAPING PLAN
11	C-206	WET VEGETATED TREATMENT SYSTEM PLAN
12	C-207	WET POND PLAN AND PROFILE
13	C-401	EROSION CONTROL DETAILS
14	C-402	EROSION CONTROL NOTES



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PROJECT: Long Creek Watershed Management District
CATCHMENT C-08
TEXAS INSTRUMENTS, INC., FODEN ROAD, SOUTH PORTLAND, MAINE

REV	REVISION ISSUE DESCRIPTION	DATE

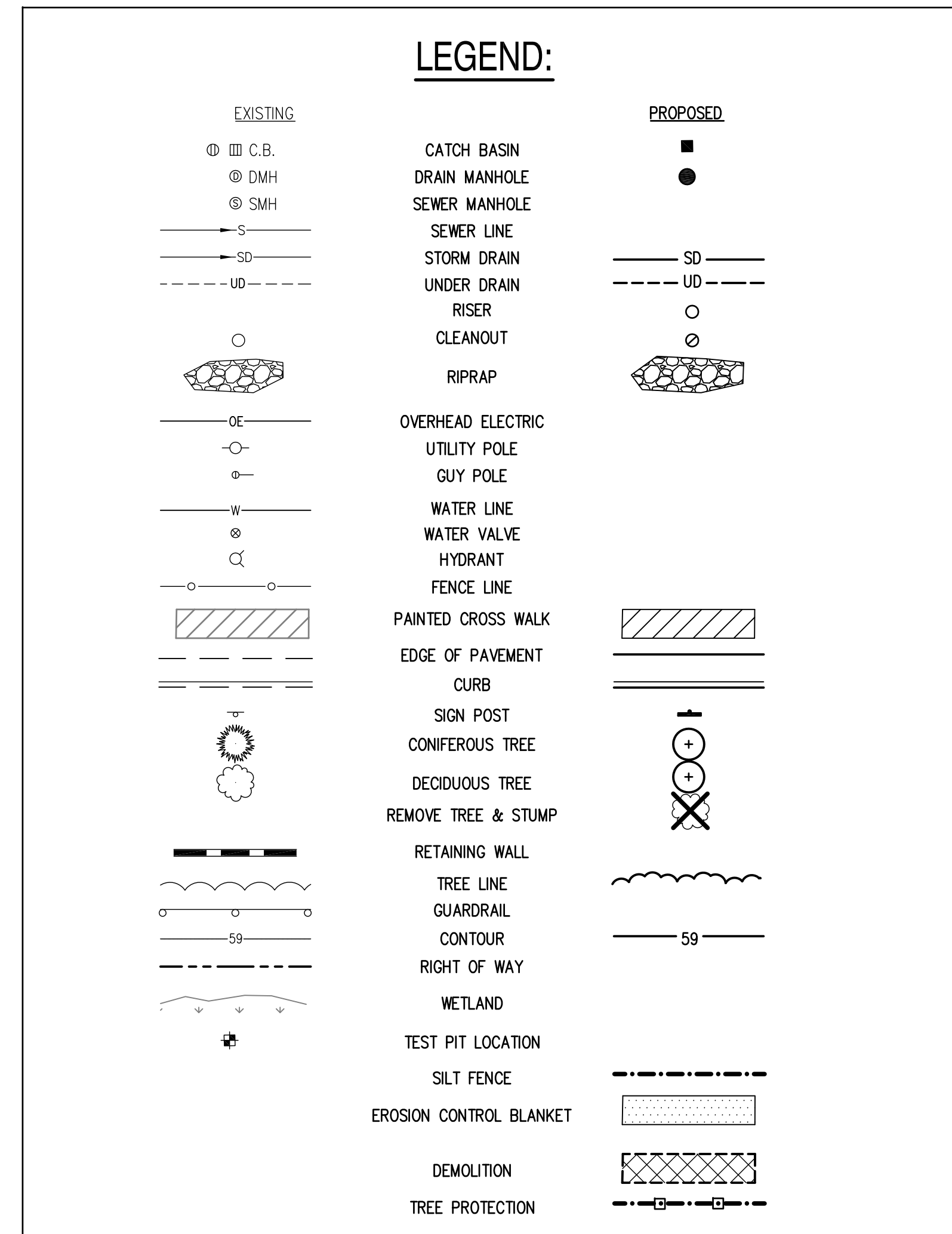
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CAD FILE: TI-G-001
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GRAPHIC SCALE:
0" 1"

TITLE:
TITLE PLAN

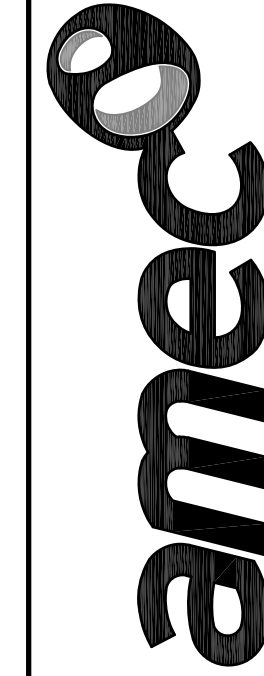
DRAWING NO:
G-001
SHEET: 1 OF 14

NOTES:

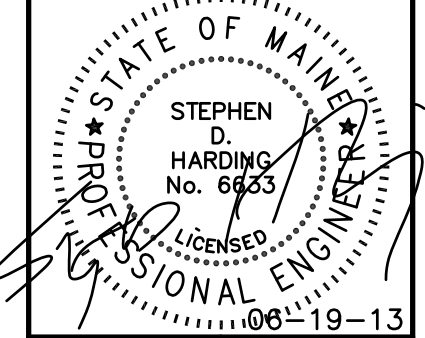
- CONTRACTOR SHALL PROTECT ALL MAILBOXES, TREES, BUSHES, FENCES, STONE WALLS AND OTHER PERSONAL AND PUBLIC PROPERTY FROM DAMAGE. CONTRACTOR SHALL REPAIR OR REPLACE TREES, BUSHES, FENCES, WALLS OR OTHER PERSONAL AND PUBLIC PROPERTY DAMAGED BY CONSTRUCTION AT NO COST TO THE OWNER.
- EXCESS SURPLUS NON-CONTAMINATED EXCAVATED MATERIAL SHALL BE REMOVED AND DISPOSED OFF SITE IN ACCORDANCE WITH ALL EXISTING GOVERNMENT REGULATIONS AT CONTRACTOR'S EXPENSE.
- PIPES & STRUCTURES REMOVED AS A RESULT OF CONSTRUCTION OF THIS PROJECT SHALL BE DISPOSED OFF SITE IN ACCORDANCE WITH ALL GOVERNMENT REGULATIONS AT CONTRACTOR'S EXPENSE.
- EXISTING UTILITIES SHOWN ON THE PROJECT DRAWINGS ARE LOCATED APPROXIMATELY AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. UTILITY LOCATIONS ARE BASED ON PHYSICAL LOCATIONS AND/OR MAPS FROM RESPECTIVE UTILITY COMPANIES AND THE LAND OWNER. THESE UTILITY LOCATIONS ARE PROVIDED FOR REFERENCE TO THE CONTRACTOR. NO GUARANTEE IS MADE THAT UTILITIES WILL BE ENCOUNTERED WHERE SHOWN OR THAT ALL UNDERGROUND UTILITIES ARE SHOWN. THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS IN THE FIELD AND BE COMPLETELY RESPONSIBLE FOR REPAIR OF ALL UTILITIES DISTURBED DURING CONSTRUCTION AT NO COST TO THE OWNER.
- CONTRACTOR IS RESPONSIBLE FOR CALLING DIG-SAFE (1-800-344-7233) 72 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION. CONTRACTOR IS ALSO RESPONSIBLE FOR CONTACTING OTHER NON DIG-SAFE MEMBER UTILITIES FOR UTILITY LOCATIONS 72 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION. COST FOR LOCATING UTILITIES WITHIN THE RIGHT-OF-WAYS OR ON PRIVATE PROPERTIES IS THE CONTRACTOR'S RESPONSIBILITY AND WILL NOT BE PAID FOR SEPARATELY.
- CATCH BASIN RIMS TO BE SET TO PROMOTE POSITIVE RUNOFF TO THE BASIN INLETS, UNLESS OTHERWISE NOTED.
- ALL NON-PAVED AREAS DISTURBED DURING CONSTRUCTION SHALL BE LOAMED, SEEDED, FERTILIZED AND MULCHED UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- EXISTING PROPERTY AND RIGHT-OF-WAY PINS AND MONUMENTATION SHALL NOT BE DISTURBED BY CONSTRUCTION. IF DISTURBED, THEY SHALL BE RESET TO THEIR ORIGINAL LOCATIONS AT THE CONTRACTOR'S EXPENSE BY A REGISTERED MAINE PROFESSIONAL LAND SURVEYOR UNLESS OTHERWISE DIRECTED BY THE OWNER.
- MAINTENANCE OF TRAFFIC:
 - CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDULING AND PERFORMING WORK IN SUCH A MANNER TO PROVIDE SAFE PASSAGE FOR TRAFFIC AT ALL TIMES WITH MINIMUM OF OBSTRUCTION TO TRAFFIC.
 - CONTRACTOR SHALL FOLLOW THE CONSTRUCTION CIRCULATION PLAN PROVIDED IN PROJECT DRAWINGS.
 - CONTRACTOR SHALL MAINTAIN TWO-WAY TRAFFIC OVER THE AREA DURING THE WORK DAY AND SHALL PROVIDE NECESSARY TRAFFIC BARRELS, BARRICADES, WARNING SIGNS, FLAGS AND FLAGGER TO ACCOMPLISH THIS. FURTHER, THE CONTRACTOR SHALL LEAVE THE AREA IN A SATISFACTORY STATE, ACCEPTABLE TO THE ENGINEER, AT THE END OF EACH DAY SO AS TO PROVIDE TWO-WAY (I.E. TWO LANE) TRAFFIC DURING THE NIGHT AND OVER THE WEEKEND.
 - CONTRACTOR SHALL PROVIDE MDOT CERTIFIED AND EQUIPPED FLAGGERS TO REGULATE TRAFFIC.
 - THE CONTRACTOR SHALL PROVIDE POST-MOUNTED AND WALL MOUNTED TRAFFIC CONTROL AND INFORMATIONAL SIGNS IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, PUBLISHED BY THE U.S. DEPARTMENT OF COMMERCE.
- CONTRACTOR SHALL INCLUDE IN THEIR BID, COSTS FOR COMPLIANCE WITH STATE AND LOCAL ENVIRONMENTAL PROTECTION REQUIREMENTS INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING:
 - CONTROL OF DUST FROM EXCAVATIONS, DUST FROM ROCK DRILLING OPERATIONS, AND SPILLAGE OF MATERIALS ON ROADWAYS.
 - THE CONTRACTOR SHALL NOT DISPOSE OF ANY EXCESS MATERIALS ON LANDS DESIGNATED OR CLASSIFIED AS WETLANDS BY THE U.S. DEPARTMENT OF FISH AND WILDLIFE. THE CONTRACTOR IS ADVISED TO CONTACT THE U.S. ARMY CORPS OF ENGINEERS, THE MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION, AND RELATED AGENCIES PRIOR TO SELECTING ANY SITES USED FOR DISPOSAL OF EXCESS MATERIAL.
 - CONFORM TO THE MAINE EROSION AND SEDIMENT CONTROL HANDBOOK FOR CONSTRUCTION: BEST MANAGEMENT PRACTICES, LATEST EDITION, CUMBERLAND COUNTY SOIL AND WATER CONSERVATION DISTRICT AND THE MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION. EROSION CONTROL MEASURES SHALL BE PLACED PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITY. EROSION CONTROL MEASURES SHALL BE PLACED WITHIN RIGHT-OF-WAY.
 - ACCUMULATED SEDIMENT IN DETENTION BASINS, DRAINAGE STRUCTURES, AND STORMWATER CONVEYANCE PIPES SHALL BE INCORPORATED WITHIN EARTHEN EMBANKMENT AREAS OR REMOVED OFF-SITE TO ANY FACILITY INCLUDING GRAVEL PITS PERMITTED TO ACCEPT ASPHALT RELATED MATERIALS.
- CONTRACTOR SHALL COMPLY WITH THE FOLLOWING SAFETY REQUIREMENTS:
 - ALL APPLICABLE O.S.H.A. REGULATIONS.
 - HARD HATS SHALL BE WORN WHILE ON THE PROJECT SITE.
 - STEEL TOE SHOES MEETING O.S.H.A. REGULATIONS SHALL BE WORN.
 - LONG PANTS WILL BE WORN AT ALL TIMES.
 - SHIRTS SHALL BE WORN AT ALL TIMES.
 - SAFETY VESTS SHALL BE WORN.
- CONTRACTOR SHALL PROVIDE QUALIFIED PERSONNEL ON SITE CAPABLE OF PROVIDING HORIZONTAL AND VERTICAL CONTROL.
- WORKING HOURS SHALL BE 7:00 AM TO 7:00 PM MONDAY THROUGH FRIDAY. WORK ON SATURDAY SHALL OCCUR ONLY UPON THE APPROVAL OF THE PROPERTY OWNER.
- CONTRACTOR SHALL VERIFY SIZE, TYPE, AND ORIENTATION OF ALL EXISTING PIPES AND CATCH BASINS, WHERE REQUIRED TO TIE NEW WORK INTO EXISTING PIPES OR STRUCTURES, PRIOR TO ORDERING MATERIALS.
- COST OF PLUGGING, AND ABANDONING OF EXISTING PIPES AND COST OF REMOVING EXISTING PIPES AND BACK FILLING EXCAVATION WILL BE INCIDENTAL TO BID ITEMS.
- WHERE CONTRACTOR REMOVES EXISTING UTILITIES AND FEATURES, THAT ARE TO REMAIN, TO FACILITATE INSTALLATION OF WORK OF THIS PROJECT, CONTRACTOR SHALL REPLACE SUCH UTILITIES AND FEATURES AT NO COST TO OWNER. COST SHALL BE CONSIDERED INCIDENTAL TO BID ITEMS.
- WHERE CONTRACTOR ENCOUNTERS EXISTING STORM DRAINS AND SANITARY SEWERS WITHIN THE LIMITS OF EXCAVATION FOR THE WORK OF THIS PROJECT, CONTRACTOR SHALL REMOVE THESE DRAINS AND SEWERS, WITHIN THOSE LIMITS OF EXCAVATION, THAT ARE NO LONGER REQUIRED TO BE ACTIVE AND PLUG AND ABANDON THEM IN PLACE AT NO COST TO OWNER. COST SHALL BE CONSIDERED INCIDENTAL TO BID ITEMS.
- WORK REQUIRED BY THE CONTRACT DOCUMENTS NOT DEFINED IN THE BID ITEMS SHALL BE INCIDENTAL TO ALL BID ITEMS AND NO SEPARATE PAYMENT WILL BE MADE.
- CONTRACTOR SHALL MAINTAIN A RECORD OF ALL INSTALLATIONS DURING CONSTRUCTION AND PROVIDE A RECORD COPY OF THE INSTALLED CONDITION TO THE ENGINEER FOR REVIEW AND APPROVAL.
- ALL CONSTRUCTION SHALL MEET MDOT AND/OR CITY OF SOUTH PORTLAND SPECIFICATIONS.
- A STORMWATER IMPROVEMENTS PROJECT WILL SIMULTANEOUSLY BE TAKING PLACE AT THE ADJACENT FAIRCHILD SEMICONDUCTOR FACILITY. SINCE THE DRAINAGE INFRASTRUCTURE FOR BOTH FACILITIES ARE CONNECTED, THE CONTRACTOR MUST COORDINATE EFFORTS WITH THE FAIRCHILD SEMICONDUCTOR CONTRACTOR.
- TOPOGRAPHIC SURVEY CONDUCTED BY AMEC E & I, INC. HORIZONTAL DATUM IS BASED ON THE MAINE STATE GRID COORDINATE SYSTEM NAD83, WEST ZONE. VERTICAL DATUM IS REFERENCED TO NAVD29.



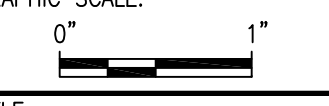
T:\Longcreek\Watershed-South\Portland\Tools\Instrument\Sheets\TI-G-002.dwg Wed, 19 Jun 2013 - 4:43pm William Whitten



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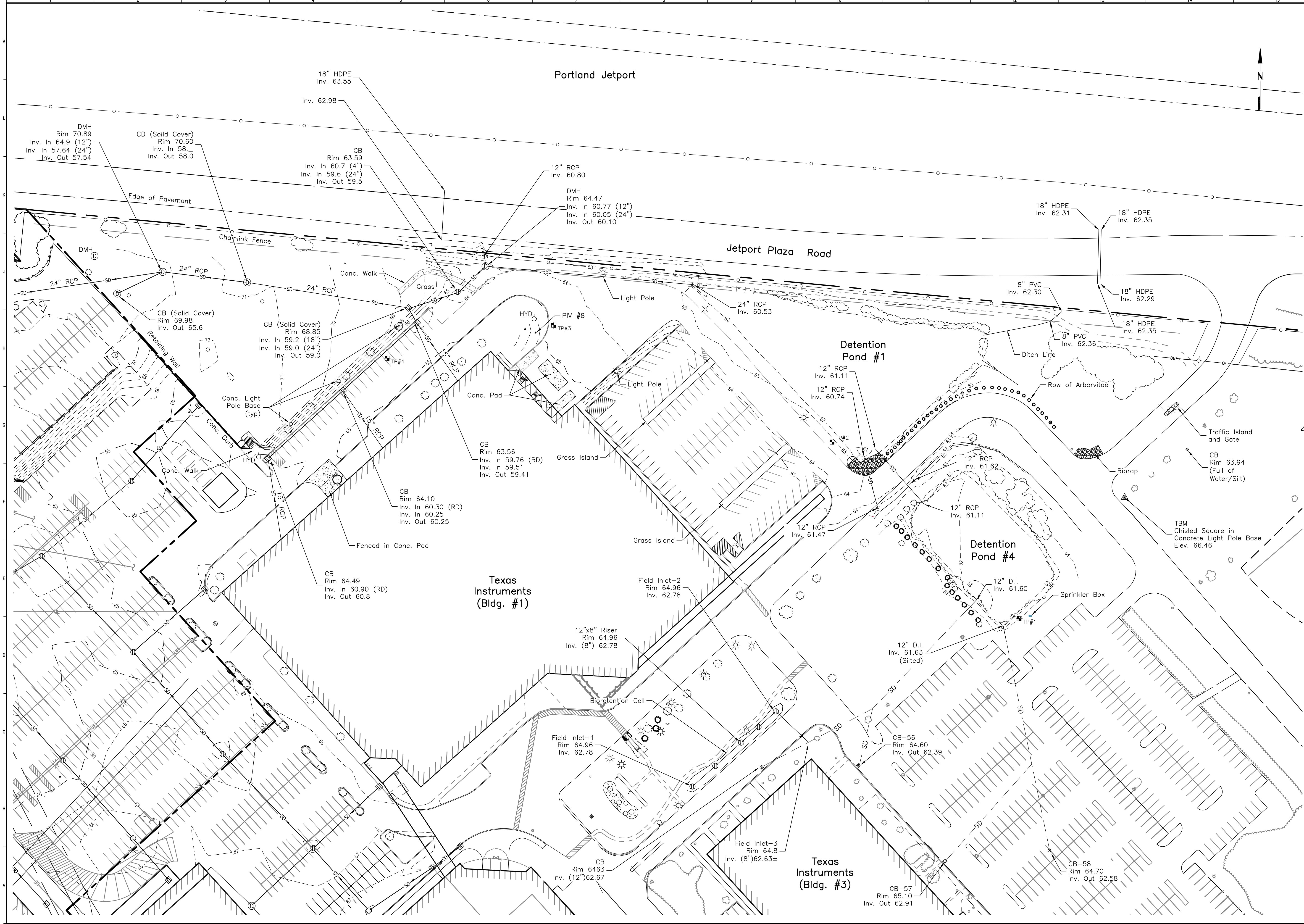


STEPHEN D. HARDING
 No. 8865
 LICENSED PROFESSIONAL ENGINEER
 06-19-13

Issued for Construction June 19, 2013																												
PROJECT: Long Creek Watershed Management District CATCHMENT C-08 TEXAS INSTRUMENTS, INC., FODEN ROAD, SOUTH PORTLAND, MAINE																												
PROJECT NUMBER: 3618128200 PROJECT MANAGER: TG A/E OF RECORD: TG DRAWN BY: WJW CAD FILE: TI-G-002 SCALE: AS NOTED GRAPHIC SCALE:  TITLE: NOTES AND LEGEND	CURRENT ISSUE STATUS: <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th>REV</th> <th>DESCRIPTION</th> <th>DATE</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table> DRAWING NO: G-002 SHEET: 2 OF 14	REV	DESCRIPTION	DATE																								
REV	DESCRIPTION	DATE																										

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STATE OF MAINE
STEPHEN D. HARDING
No. 8863
LICENSED PROFESSIONAL ENGINEER
1989-1993

Issued for Construction
June 19, 2013

PROJECT: Long Creek Watershed Management District
CATCHMENT C-08
TEXAS INSTRUMENTS, INC., FODEN ROAD, SOUTH PORTLAND, MAINE

CURRENT ISSUE STATUS:		DATE

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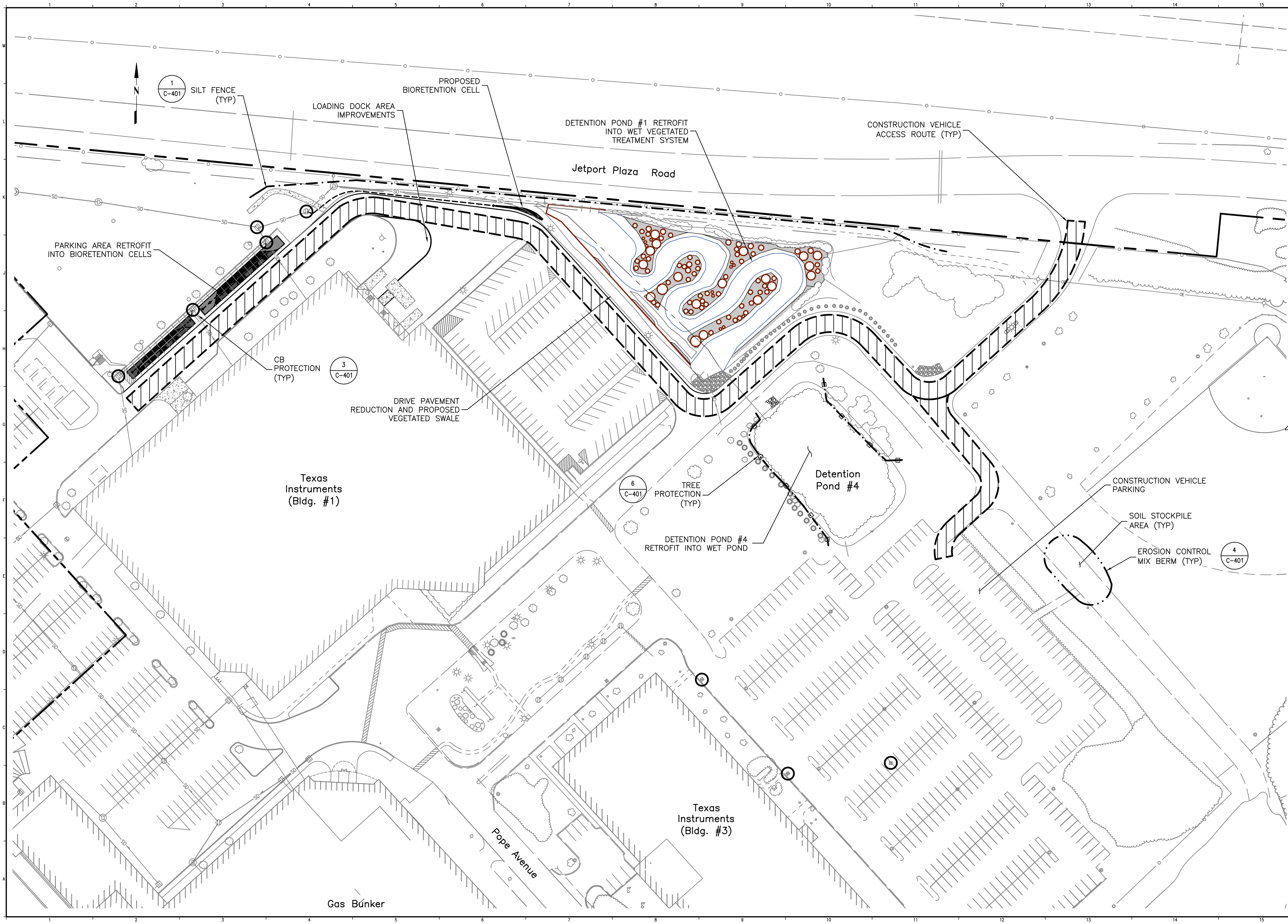
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TITLE:
EXISTING CONDITIONS PLAN

DRAWING NO:
C-101.2
SHEET: 3 OF 14

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1
C-401
SILT FENCE
(TYP)

LOADING DOCK AREA
IMPROVEMENTS

PROPOSED
BIORETENTION CELL

DETENTION POND #1 RETROFIT
INTO WET VEGETATED
TREATMENT SYSTEM

CONSTRUCTION VEHICLE
ACCESS ROUTE (TYP)

Jetport Plaza Road

PARKING AREA RETROFIT
INTO BIORETENTION CELLS

3
C-401
CB PROTECTION
(TYP)

DRIVE PAVEMENT
REDUCTION AND PROPOSED
VEGETATED SWALE

Texas
Instruments
(Bldg. #1)

6
C-401
TREE
PROTECTION
(TYP)

DETENTION POND #4
RETROFIT INTO WET POND

Detention
Pond #4

CONSTRUCTION VEHICLE
PARKING

SOIL STOCKPILE
AREA (TYP)

EROSION CONTROL
MIX BERM (TYP)

4
C-401

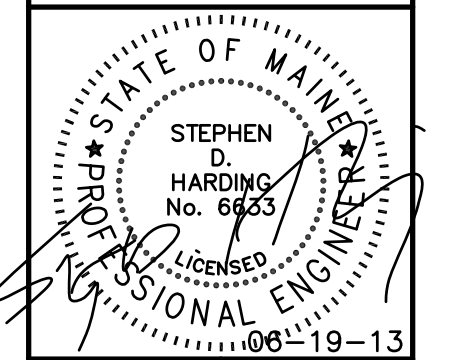
Texas
Instruments
(Bldg. #3)

Pope Avenue

Gas Bunker



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PROJECT:
Long Creek Watershed Management District
CATCHMENT C-08

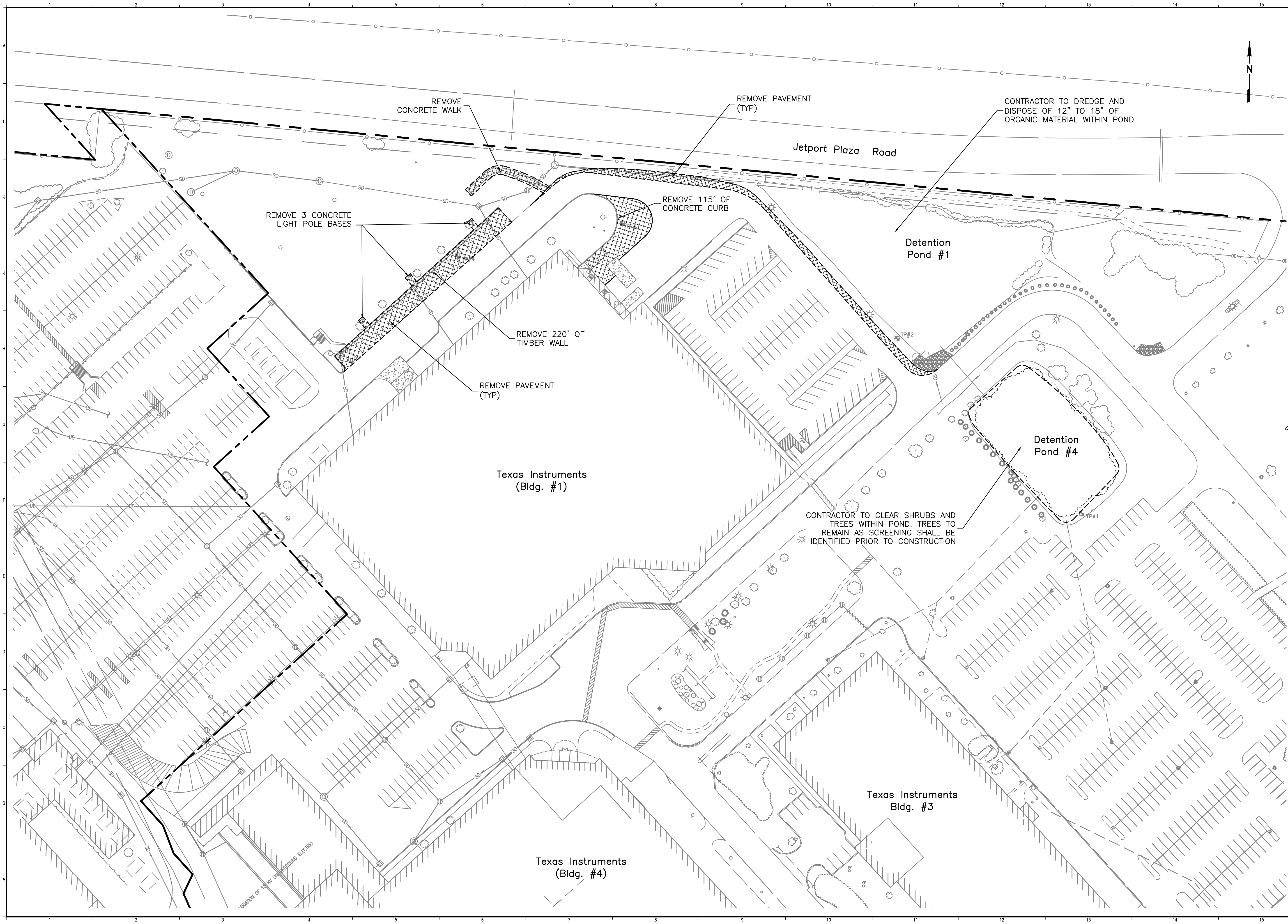
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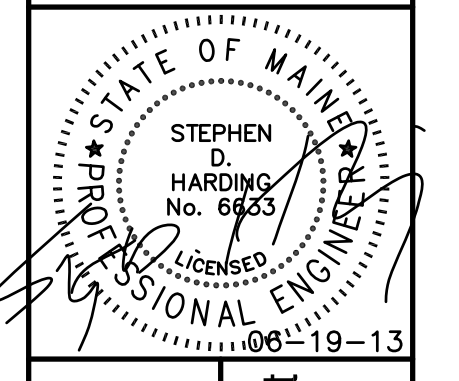
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CONSTRUCTION ACCESS AND
EROSION AND SEDIMENT
CONTROL PLAN

DRAWING NO:
C-102.2
SHEET: 4 OF 14

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PROJECT: Long Creek Watershed Management District
 CATCHMENT C-08

TEXAS INSTRUMENTS, INC., FODEN ROAD, SOUTH PORTLAND, MAINE

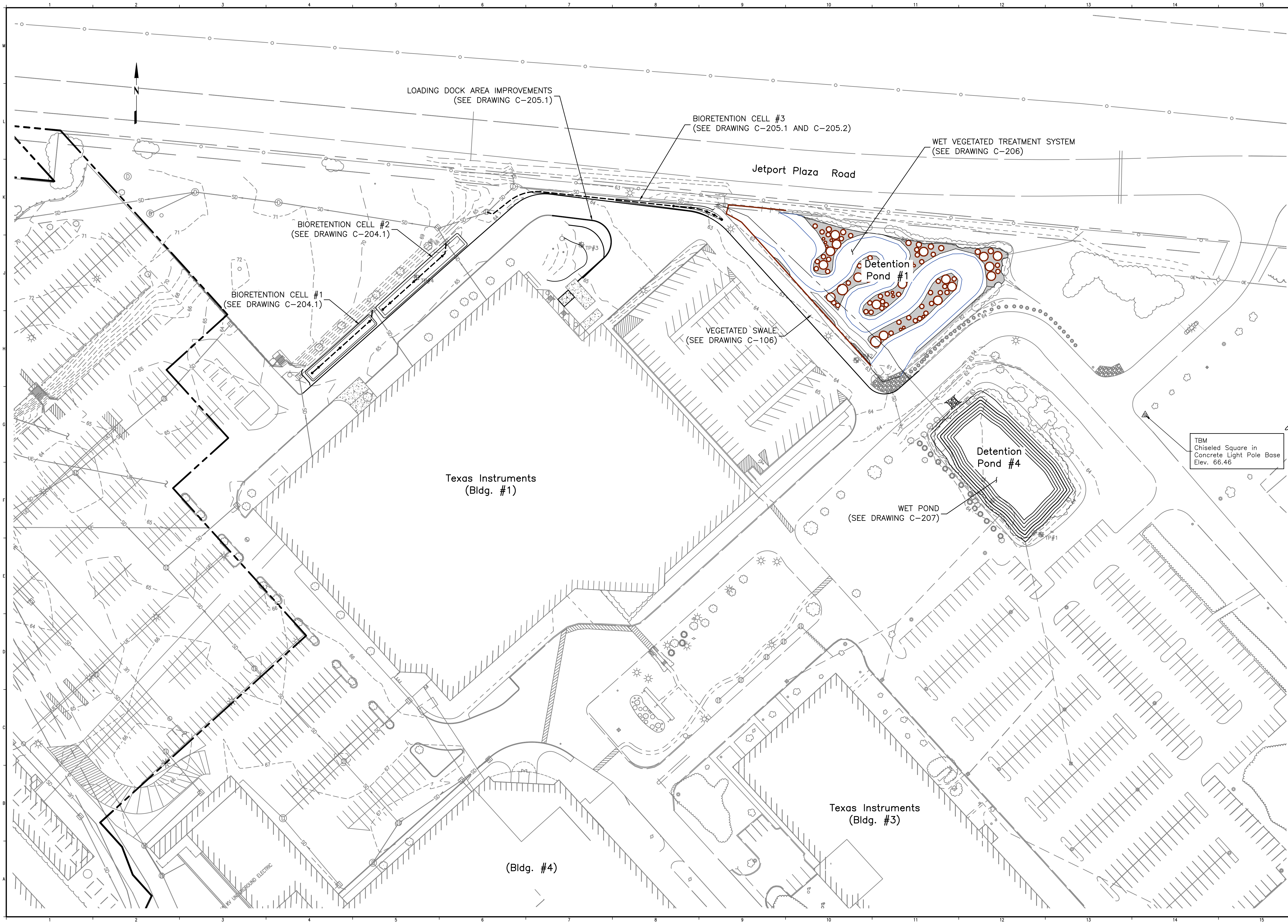
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 PROJECT MANAGER: TG
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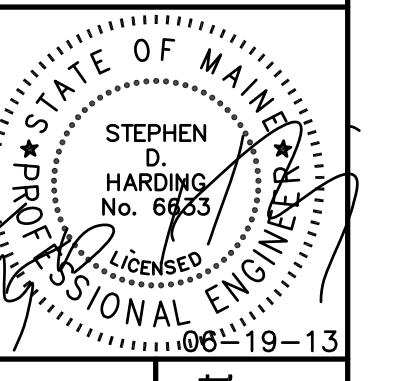
TITLE:
 DEMOLITIONS PLAN

DRAWING NO:
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 SHEET: 5 OF 14

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PROJECT: Long Creek Watershed Management District
 CATCHMENT C-08

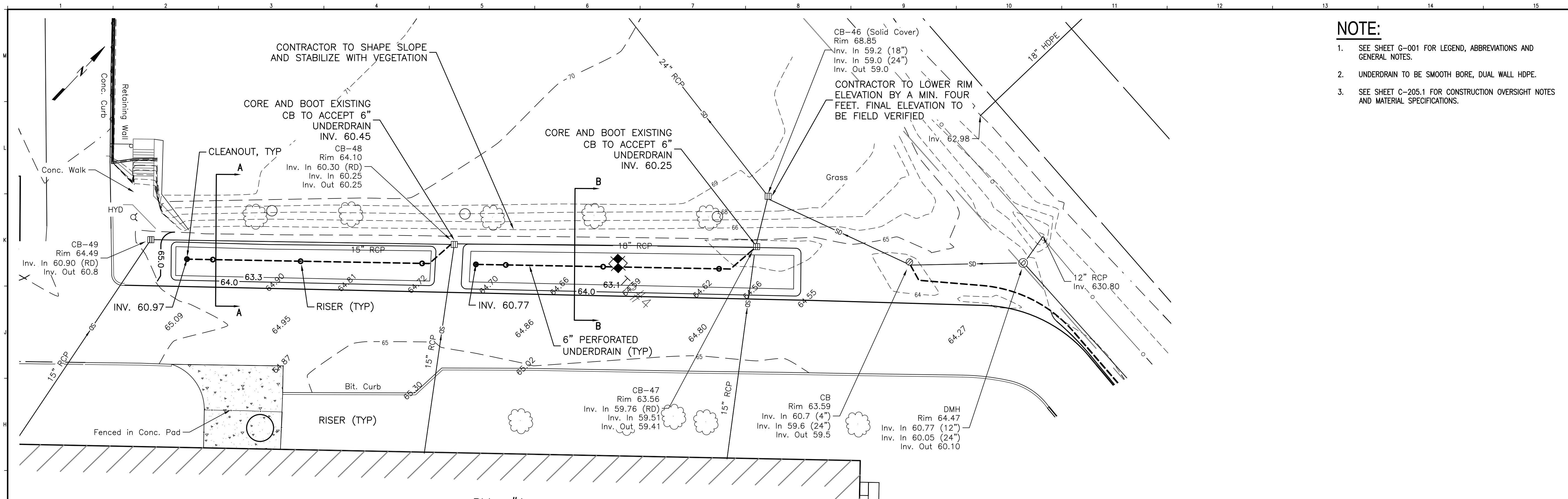
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REV	REVISION ISSUE DESCRIPTION	DATE

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TITLE:
 OVERALL
 SITE LAYOUT PLAN

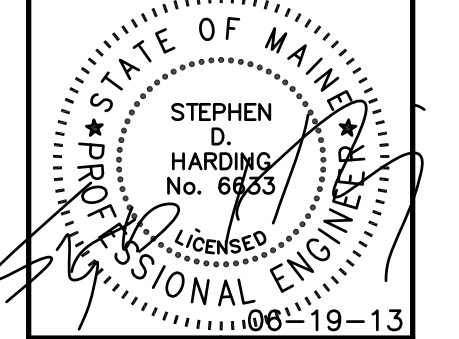
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 SHEET: 6 OF 14



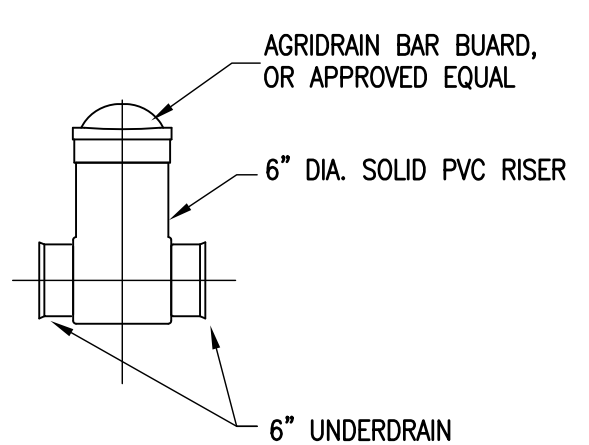
- NOTE:**
- SEE SHEET G-001 FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES.
 - UNDERDRAIN TO BE SMOOTH BORE, DUAL WALL HDPE.
 - SEE SHEET C-205.1 FOR CONSTRUCTION OVERSIGHT NOTES AND MATERIAL SPECIFICATIONS.



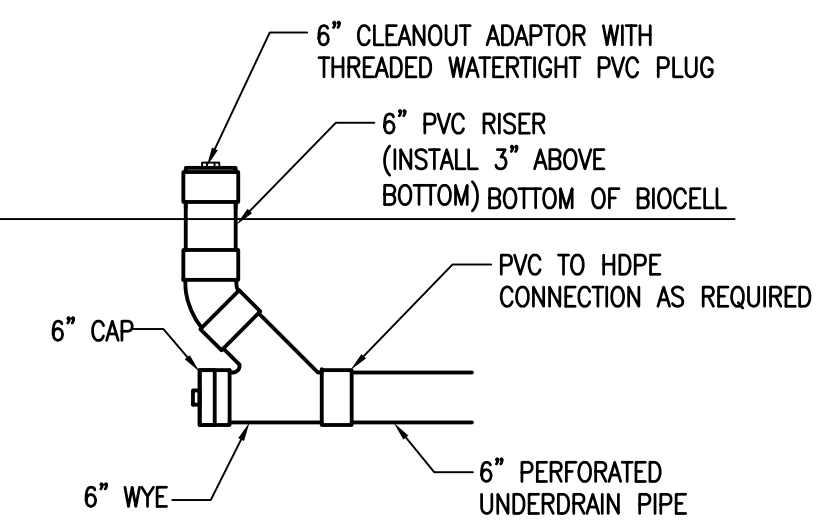
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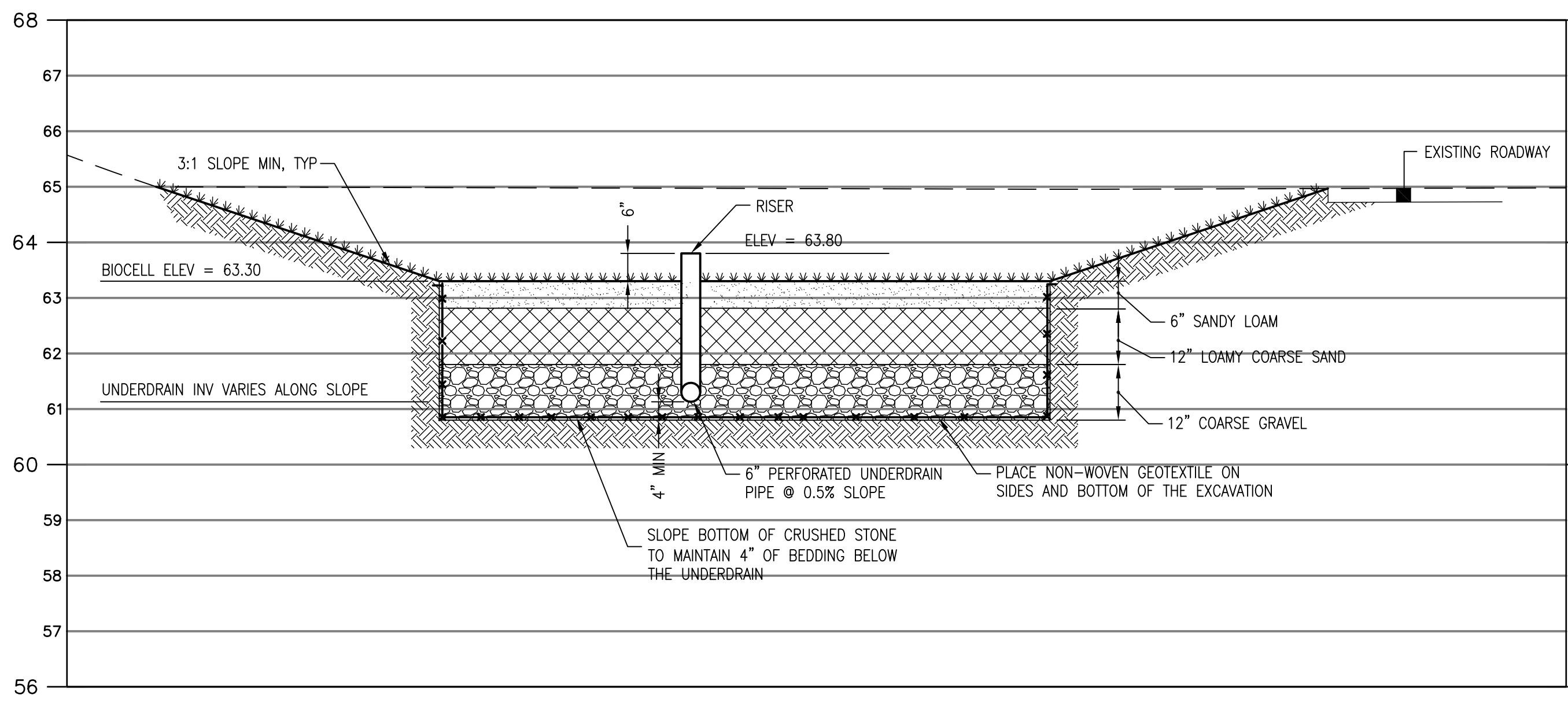
BIORETENTION CELLS
 SCALE: 1" = 20'



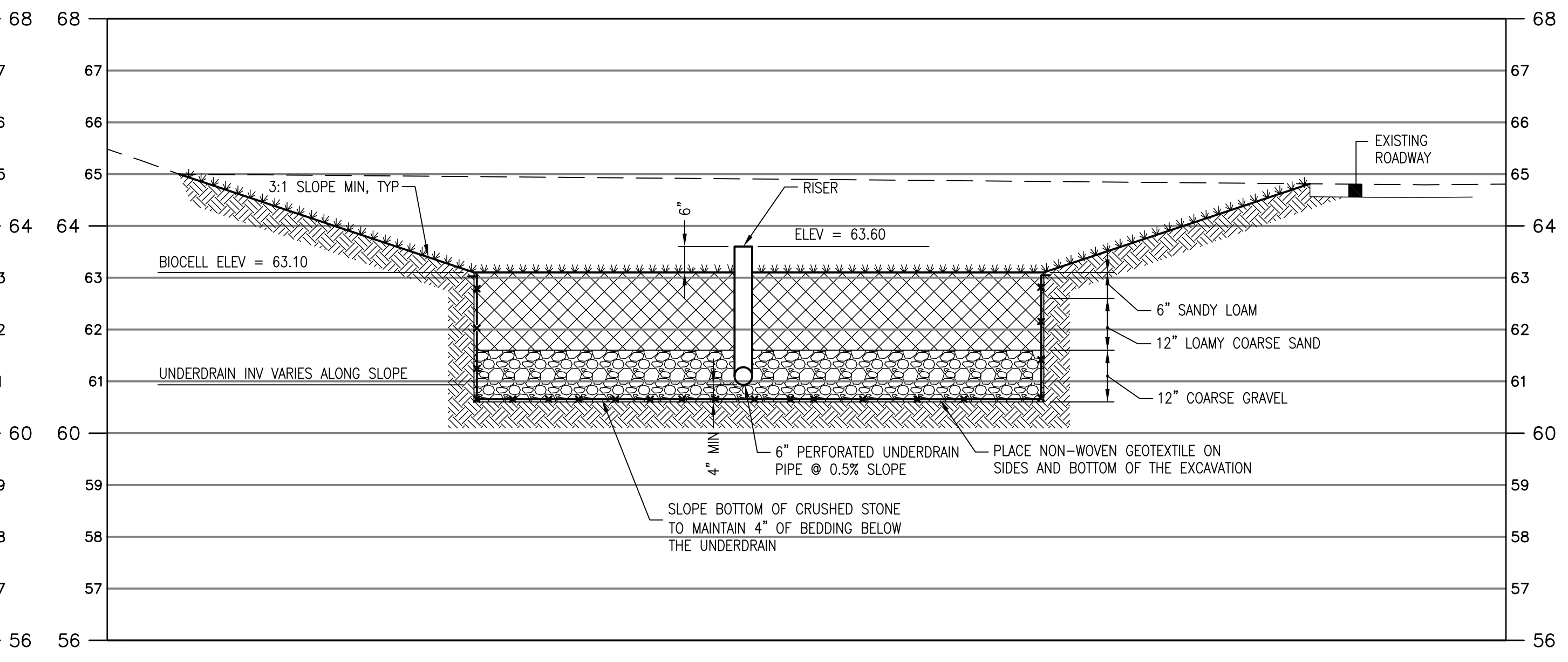
1 RISER
 SCALE: NTS



2 CLEANOUT
 SCALE: NTS



A BIORETENTION CELL #1
 SCALE: 1" = 2' (HORIZ. & VERT.)



B BIORETENTION CELL #2
 SCALE: 1" = 2' (HORIZ. & VERT.)

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PROJECT:
 Long Creek Watershed Management District
 CATCHMENT C-08

TEXAS INSTRUMENTS, INC., FODEN ROAD, SOUTH PORTLAND, MAINE

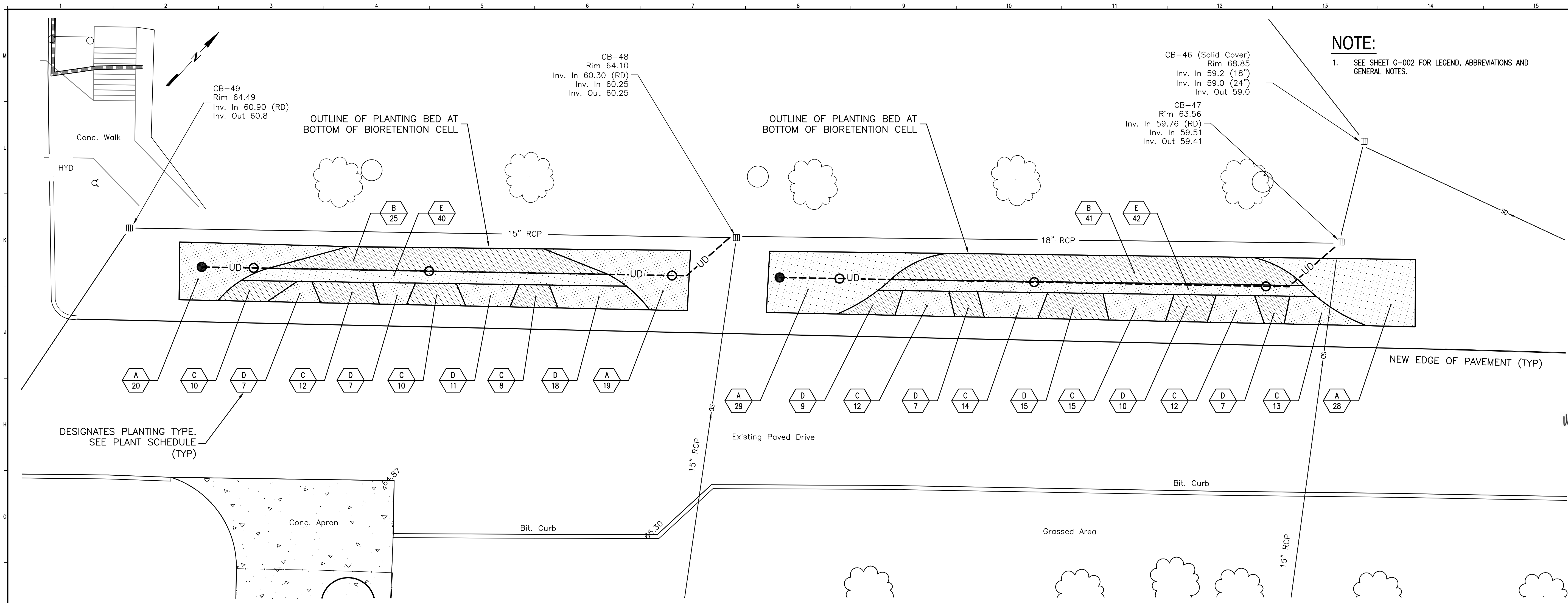
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 CAD FILE: TI-C-204.1
 SCALE: AS NOTED
 GRAPHIC SCALE:
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TITLE:
 BIORETENTION
 CELLS #1 AND #2 PLAN

DRAWING NO:
 C-204.1
 SHEET: 7 OF 14

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NOTE:
1. SEE SHEET G-002 FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES.

CB-48
Rim 64.10
Inv. In 60.30 (RD)
Inv. In 60.25
Inv. Out 60.25

CB-46 (Solid Cover)
Rim 68.85
Inv. In 59.2 (18")
Inv. In 59.0 (24")
Inv. Out 59.0

CB-47
Rim 63.56
Inv. In 59.76 (RD)
Inv. In 59.51
Inv. Out 59.41

CB-49
Rim 64.49
Inv. In 60.90 (RD)
Inv. Out 60.8

OUTLINE OF PLANTING BED AT BOTTOM OF BIORETENTION CELL

OUTLINE OF PLANTING BED AT BOTTOM OF BIORETENTION CELL

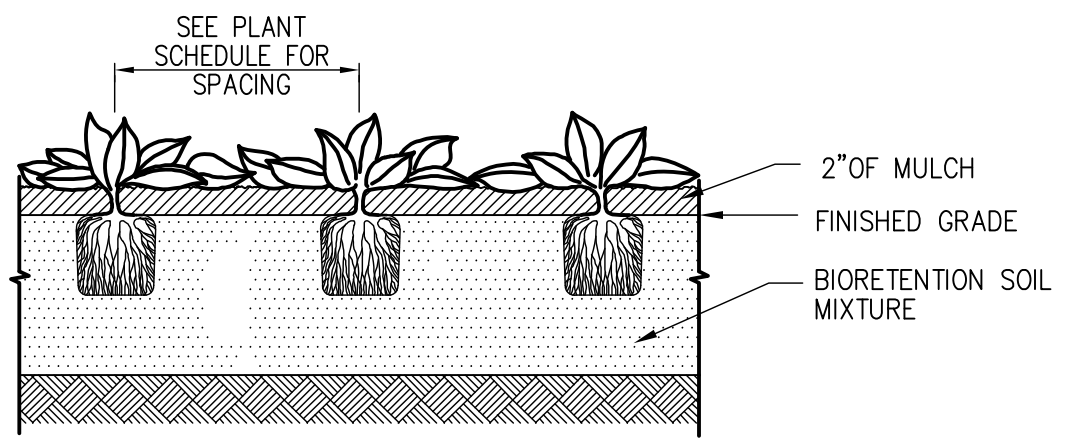
DESIGNATES PLANTING TYPE. SEE PLANT SCHEDULE (TYP)

LANDSCAPING PLAN

SCALE: 1" = 10'

PLANT SCHEDULE

SYMBOL	QTY.	BOTANICAL NAME	COMMON NAME	HEIGHT	SPACING
A	96	PANICUM VIRGATUM	SWITCHGRASS	1 GAL.	3' OC
B	66	EUPATORIUM MACULATUM	JOE PYE WEED	1 GAL.	3' OC
C	106	ASTER NOVAE-ANGLIAE	NEW ENGLAND ASTER	1 GAL.	2' OC
D	91	PHYSOSTEGIA VIRGINIANA	OBEDIENT PLANT	1 GAL.	2' OC
E	82	IRIS VERSICOLOR	BLUE FLAG IRIS	1 GAL.	2' OC

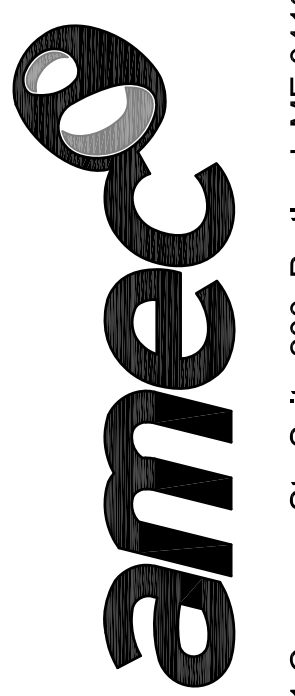


HERBACEOUS PLANTING BED DETAIL

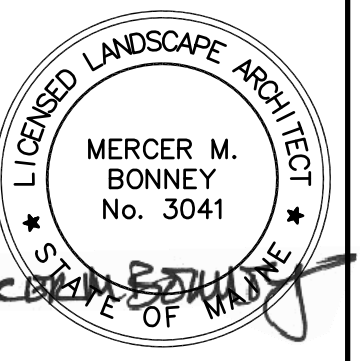
SCALE: NTS

LANDSCAPE MATERIAL NOTES:

1. THE LANDSCAPE CONTRACTOR SHALL SUPPLY AND INSTALL ALL PLANTS IN SUFFICIENT QUANTITIES TO COMPLETE THE WORK AS SHOWN ON THE DRAWINGS. DISCREPANCIES BETWEEN QUANTITIES SHOWN ON THE DRAWINGS AND THE PLANT LIST SHALL BE REPORTED IMMEDIATELY TO THE LANDSCAPE ARCHITECT AND SHALL NOT ENTITLE THE CONTRACTOR TO ADDITIONAL COMPENSATION.
2. THE LANDSCAPE CONTRACTOR IS ADVISED THAT BOTH ABOVE AND BELOW GROUND UTILITIES WILL EXIST ON THE SITE, THE LOCATIONS SHOWN ON THE PROJECT DRAWINGS ARE LOCATED APPROXIMATELY AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF OPERATIONS. SHOULD THE LOCATION OF ANY PROPOSED PLANTING CONFLICT WITH ANY UTILITY, THE LANDSCAPE ARCHITECT SHALL BE NOTIFIED IMMEDIATELY FOR DECISION.
3. ANY AND ALL PAVING, CURBING, UTILITIES, LAWNS, ETC., DAMAGED AS A RESULT OF THE LANDSCAPE CONTRACTOR'S OPERATIONS SHALL BE REPLACED OR REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
4. ALL BEDS SHALL RECEIVE 2" WELL ROTTED BLACK PINE BARK MULCH. MULCH SHALL BE FREE OF WEED SEEDS, SOIL, ROOTS OR ANY OTHER SUBSTANCE NOT CONSISTENT OF BARK. MULCH MAY NOT BE MORE THAN ONE YEAR OLD OR FRESH.
5. LOCATIONS OF PROPOSED PLANTINGS AND PLANT MATERIAL SHALL BE REVIEWED AND APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
6. THE LANDSCAPE CONTRACTOR SHALL RELOCATE ANY PLANT AT THE DIRECTION OF THE LANDSCAPE ARCHITECT.
7. ALL PLANTS SHALL HAVE A NORMAL HABIT OF GROWTH FOR THE SPECIES AND SHALL BE SOUND, HEALTHY, AND FREE OF DISEASE AND INSECTS. THEY SHALL CONFORM TO THE MEASUREMENTS ON THE PLANT LIST SHALL CONFORM TO THE SPECIFICATIONS OF THE "AMERICAN STANDARDS FOR NURSERY STOCK BY THE AMERICAN ASSOCIATION OF NURSERYMEN".
8. IF, DUE TO CULTURAL REQUIREMENTS, AVAILABILITY, OR OTHER CIRCUMSTANCES, THE LANDSCAPE CONTRACTOR BELIEVES A PARTICULAR PLANT SPECIFIED FOR USE IS INAPPROPRIATE, THE LANDSCAPE CONTRACTOR SHALL REPORT THE SITUATION IMMEDIATELY TO THE LANDSCAPE ARCHITECT FOR DECISION.
9. ALL DISTURBED AREAS NOT OTHERWISE SPECIFIED SHALL RECEIVE GRASS SEED.
10. ALL PLANTS SHALL HAVE ALL NON-BIODEGRADABLE MATERIALS (STRING, POTS, ETC.) REMOVED AT THE TIME OF PLANTING. CIRCLING ROOTS OR ROOTS THAT WOULD LATER GIRDLE THE PLANT SHALL BE STRAIGHTENED, CUT OR THE ROOT BALL SHALL BE CUT UTILIZING THE "BUTTERFLY METHOD".
11. THE LANDSCAPE CONTRACTOR SHALL NOT INSTALL AND PLANT MATERIAL UNLESS APPROPRIATE WATERING EQUIPMENT IS ON SITE. ALL PLANTS SHALL BE ADEQUATELY WATERED THE DAY OF INSTALLATION OR THESE PLANTS WILL BE REJECTED AND REPLACED BY THE LANDSCAPE CONTRACTORS AT NO COST TO THE OWNER. LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR WATERING MAINTENANCE UNTIL FINAL ACCEPTANCE.
12. PLANT SPECIES AND PLANT SIZE SUBSTITUTIONS WILL NOT BE ALLOWED UNLESS FIRST APPROVED BY THE LANDSCAPE ARCHITECT. ANY SUBSTITUTED PLANTS INSTALLED WITHOUT PRIOR APPROVAL WILL BE REJECTED.
13. ALL PLANTS SHALL BE GUARANTEED FOR ONE GROWING SEASON (1 YEAR FROM THE DATE OF ACCEPTANCE). THE LANDSCAPE CONTRACTOR, AT NO COST TO THE OWNER, SHALL REPLACE ANY AND ALL PLANTS THAT DIE DURING THE GUARANTEE PERIOD.
14. NO PLANT MATERIAL SHALL BE PLANTED WITHIN 15"-18" OF RISER PIPES.



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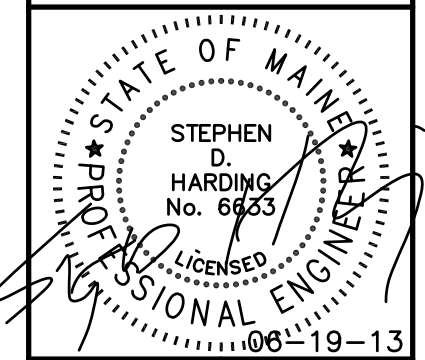
Issued for Construction
June 19, 2013

PROJECT: Long Creek Watershed Management District CATCHMENT C-08

TEXAS INSTRUMENTS, INC., FODEN ROAD, SOUTH PORTLAND, MAINE

REV	REVISION	DATE

PROJECT NUMBER: 3618128200
PROJECT MANAGER: TG
A/E OF RECORD: TG
DRAWN BY: WJW
CAD FILE: TI-C-204.2
SCALE: 1" = 10'
GRAPHIC SCALE:
0" 1"
TITLE: BIORETENTION CELLS #1 AND #2 LANDSCAPING PLAN
DRAWING NO: C-204.2
SHEET: 8 OF 14



Issued for Construction
 June 19, 2013

PROJECT: Long Creek Watershed Management District
CATCHMENT C-08

TEXAS INSTRUMENTS, INC., FODEN ROAD, SOUTH PORTLAND, MAINE

REV	REVISION	ISSUE DESCRIPTION	DATE

PROJECT NUMBER: 3618128200
 PROJECT MANAGER: TG
 A/E OF RECORD: TG
 DRAWN BY: WJW
 CAD FILE: TI-C-205.1
 SCALE: AS NOTED

GRAPHIC SCALE:
 0" 1"

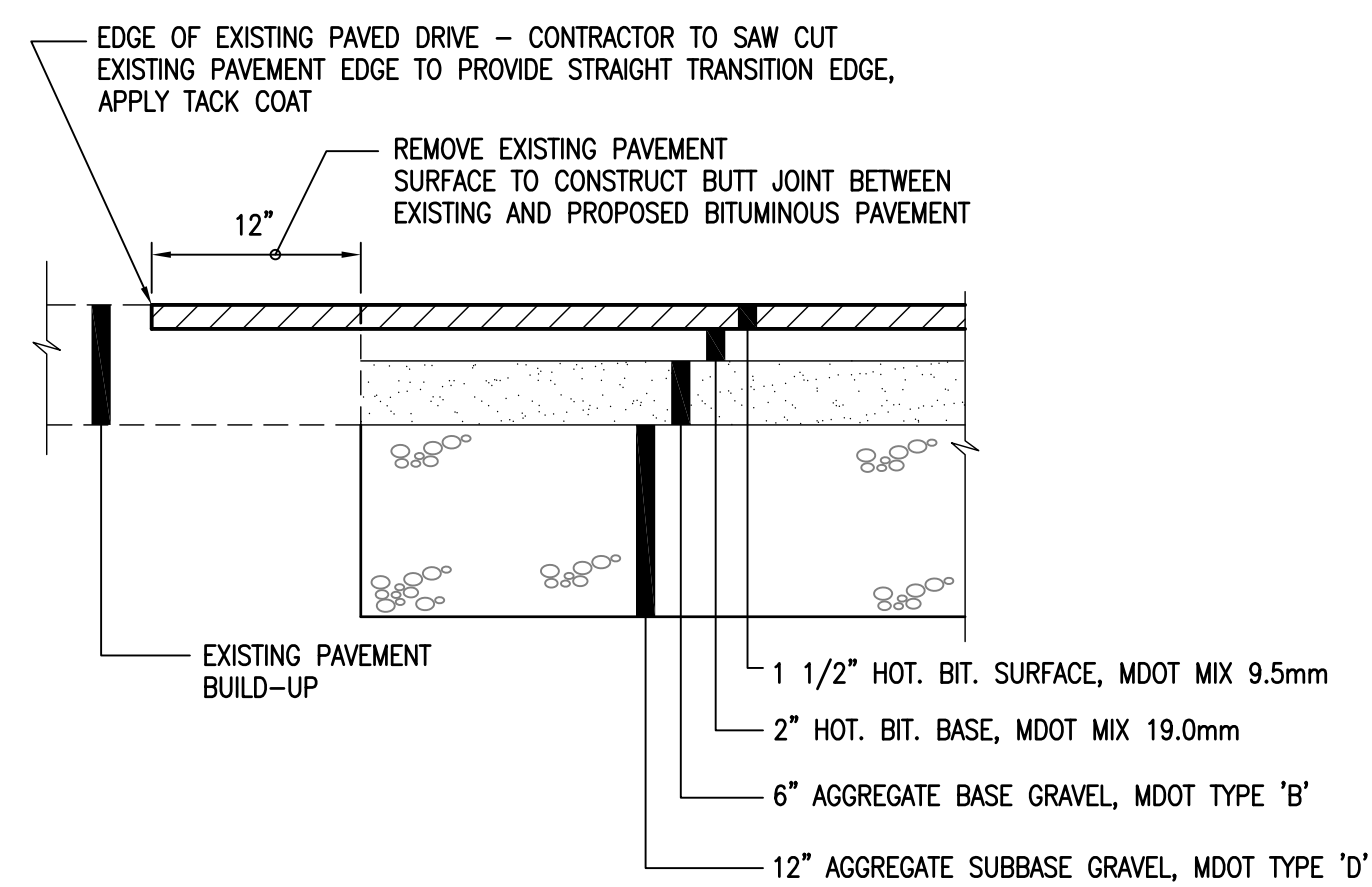
TITLE:
LOADING DOCK AREA IMPROVEMENTS PLAN

DRAWING NO:
C-205.1

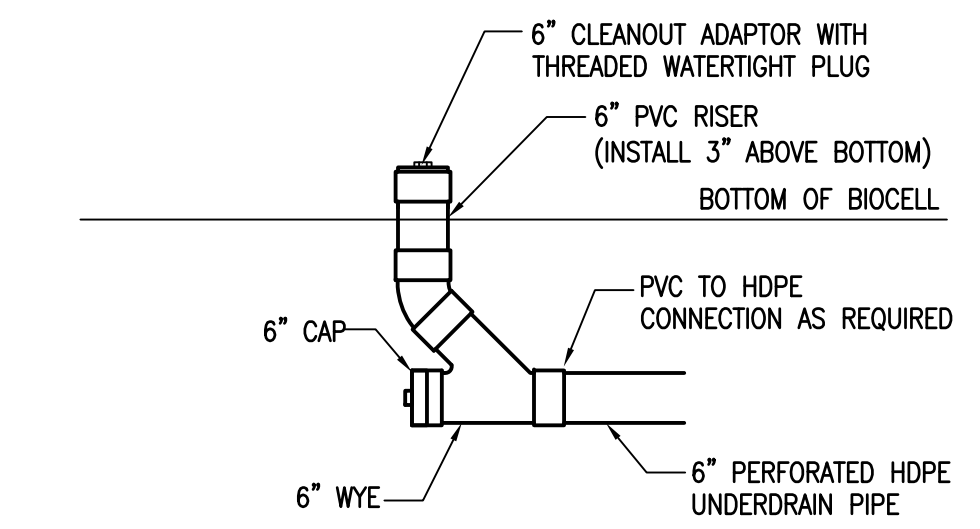
SHEET: 9 OF 14

NOTE:

- SEE SHEET C-002 FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES.



4 PAVEMENT TRANSITION
 SCALE: NTS



3 CLEANOUT
 SCALE: NTS

CONSTRUCTION OVERSIGHT:

CONSTRUCTION SEQUENCE: THE SOIL FILTER MEDIA AND VEGETATION MUST NOT BE INSTALLED UNTIL THE AREA THAT DRAINS TO THE FILTER HAS BEEN PERMANENTLY STABILIZED WITH PAVEMENT OR OTHER STRUCTURE, 90% VEGETATION COVER, OR OTHER PERMANENT STABILIZATION, UNLESS THE RUNOFF FROM THE CONTRIBUTING DRAINAGE AREA IS DIVERTED AROUND THE FILTER UNTIL STABILIZATION IS COMPLETE.

COMPACTION OF SOIL FILTER: FILTER SOIL MEDIA AND UNDERDRAIN BEDDING MATERIAL MUST BE COMPACTED TO BETWEEN 90% AND 92% STANDARD PROCTOR. THE BED SHOULD BE INSTALLED IN AT LEAST 2 LIFTS OF 9 INCHES TO PREVENT POCKETS OF LOOSE MEDIA.

CONSTRUCTION OVERSIGHT: INSPECTION BY A PROFESSIONAL ENGINEER WILL OCCUR AT A MINIMUM:

- AFTER THE PRELIMINARY CONSTRUCTION OF THE FILTER GRADES AND ONCE THE UNDERDRAIN PIPES ARE INSTALLED BUT NOT BACKFILLED,
- AFTER DRAINAGE LAYER IS CONSTRUCTED AND PRIOR TO THE INSTALLATION OF THE FILTER MEDIA,
- AFTER THE FILTER MEDIA HAS BEEN INSTALLED AND SEEDING. BIO-RETENTION CELLS MUST BE STABILIZED PER THE PROVIDED PLANTING SCHEME AND DENSITY OF THE CANOPY COVERAGE OF 30% AND 50%,
- AFTER ONE YEAR TO INSPECT HEALTH OF THE VEGETATION AND MAKE CORRECTIONS, AND
- ALL THE MATERIALS USED FOR THE CONSTRUCTION OF THE FILTER BASIN MUST BE CONFIRMED AS SUITABLE BY THE DESIGN ENGINEER. TESTING MUST BE DONE BY A CERTIFIED LABORATORY TO SHOW THAT THEY ARE PASSING DEP SPECIFICATIONS.

TESTING AND SUBMITTALS: THE CONTRACTOR SHALL IDENTIFY THE LOCATION OF THE SOURCE OF EACH COMPONENT OF THE FILTER MEDIA. ALL RESULTS OF FIELD AND LABORATORY TESTING SHALL BE SUBMITTED TO THE PROJECT ENGINEER FOR CONFIRMATION. THE CONTRACTOR SHALL:

- SELECT SAMPLES FOR SAMPLING OF EACH TYPE OF MATERIAL TO BE BLENDED FOR THE MIXED FILTER MEDIA AND SAMPLES OF THE UNDERDRAIN BEDDING MATERIAL. SAMPLES MUST BE A COMPOSITE OF THREE DIFFERENT LOCATIONS (GRABS) FROM THE STOCKPILE OR PIT FACE. SAMPLE SIZE REQUIRED WILL BE DETERMINED BY THE TESTING LABORATORY.
- PERFORM A SIEVE ANALYSIS CONFORMING TO STM C136 (STANDARD TEST METHOD FOR SIEVE ANALYSIS OF FINE AND COURSE AGGREGATES 1996A) ON EACH TYPE OF THE SAMPLE MATERIAL.

THE SANDY LOAM TOPSOIL SHALL BE TESTED AT A SOIL TESTING LAB AND:

- MATCH THE USDA SANDY LOAM TOPSOIL CLASSIFICATION,
- HAVE 5 TO 8% HUMIFIED ORGANIC MATTER,
- HAVE NO LESS THAN 15% PASSING THE #200 SIEVE,
- HAVE A CLAY CONTENT OF LESS THAN 2%
- BE FREE OF STONES, STUMPS, ROOTS OR OTHER OBJECTS GREATER THAN 2".

IF THE TOPSOIL DOES NOT CONTAIN SUFFICIENT NUTRIENT CONTENT TO SUPPORT GRASS GROWTH, SUPPLEMENT WITH SUPERHUMUS ORGANIC MATTER AND RETEST ORGANIC MATTER AND CLAY CONTENT.

SOIL FOR 12" LOAMY COARSE SAND LAYER (MEDOT #703.01)

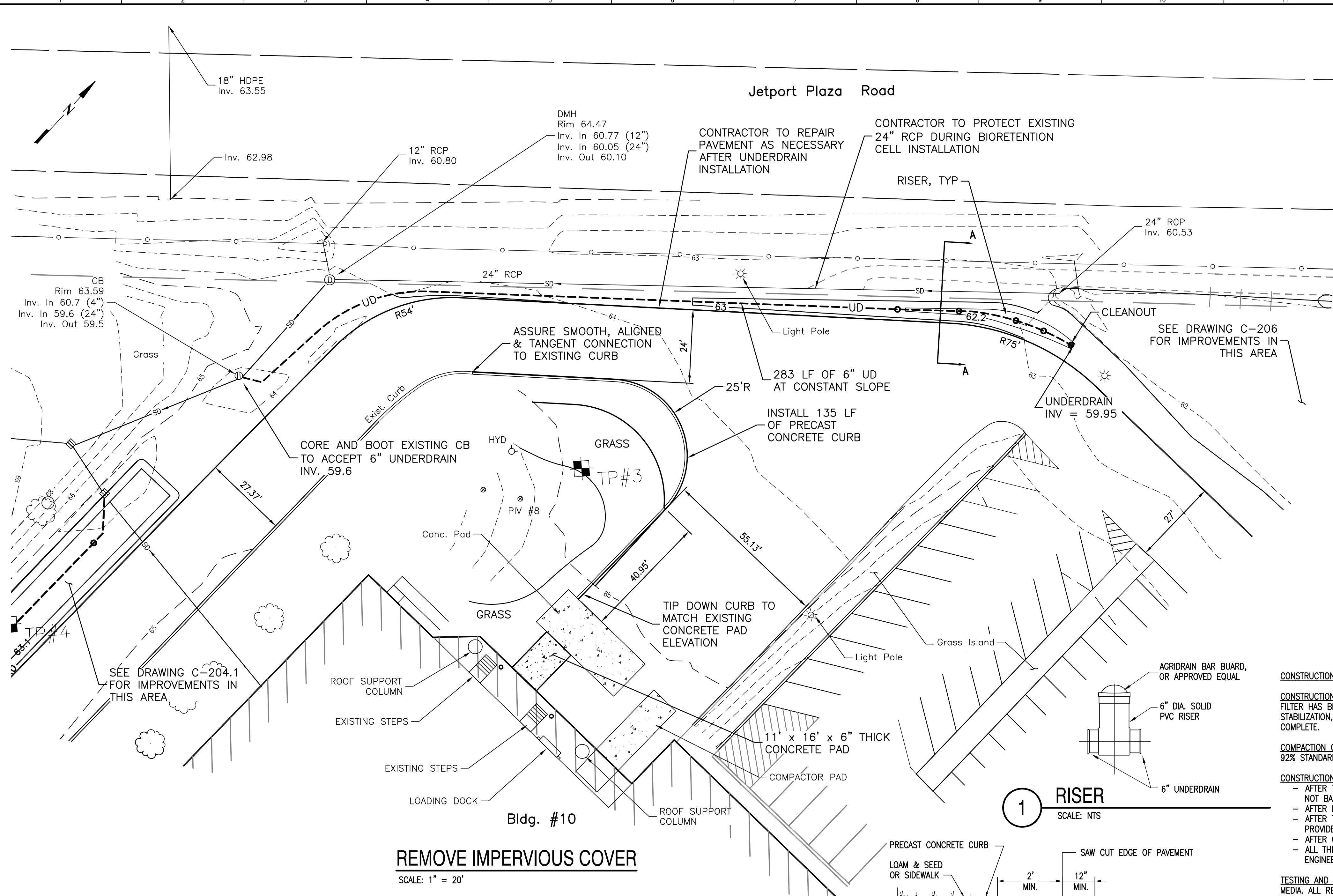
SIEVE SIZE	% BY WEIGHT
3/8"	100
#4	95-100
#8	80-100
#16	50-85
#30	25-60
#50	10-30
#100	2-10
#200	0-5

COARSE GRAVEL (MEDOT SPEC. FOR UNDERDRAINS (MEDOT #703.22))

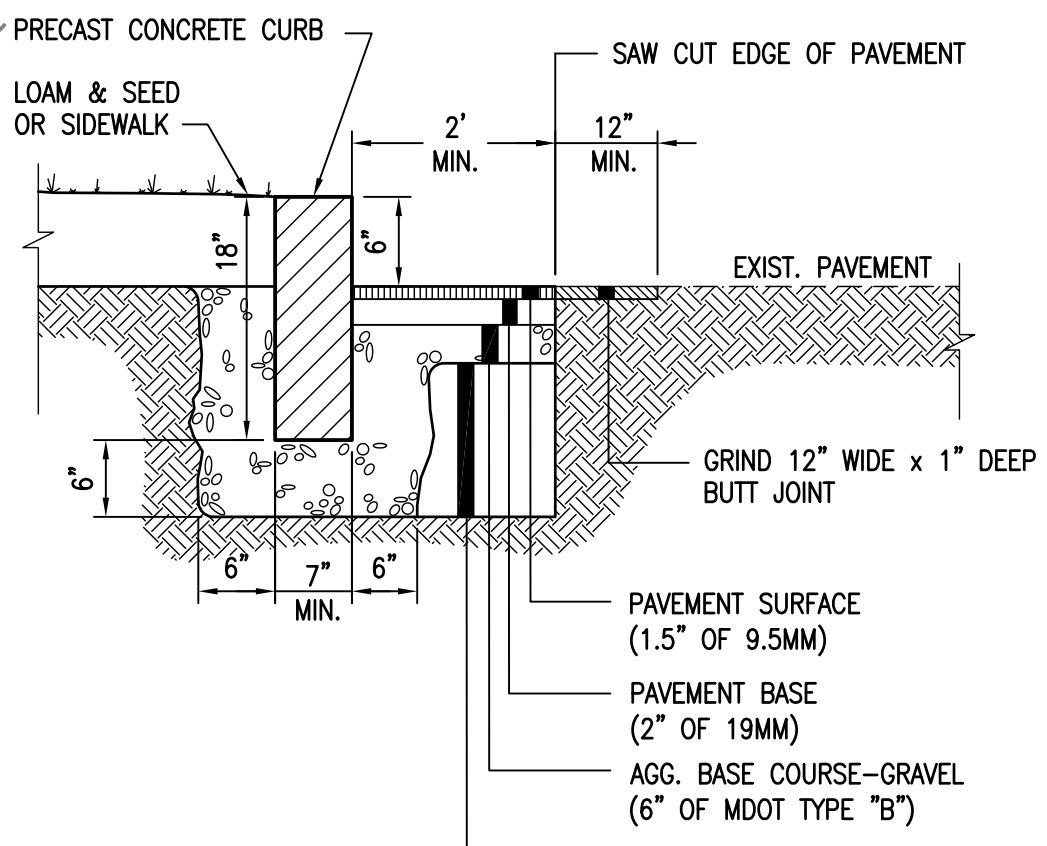
SIEVE SIZE	% BY WEIGHT
UNDERDRAIN TYPE B	
1"	90-100
1/2"	75-100
#4	50-100
#20	15-80
#50	0-15
#200	0-5

UNDERDRAINED SOIL FILTER

NAME	LBS/ACRE
Creeping Red Fescue	20
Tall Fescue	20
Birdsfoot trefoil	8
Total	48



1 RISER
 SCALE: NTS

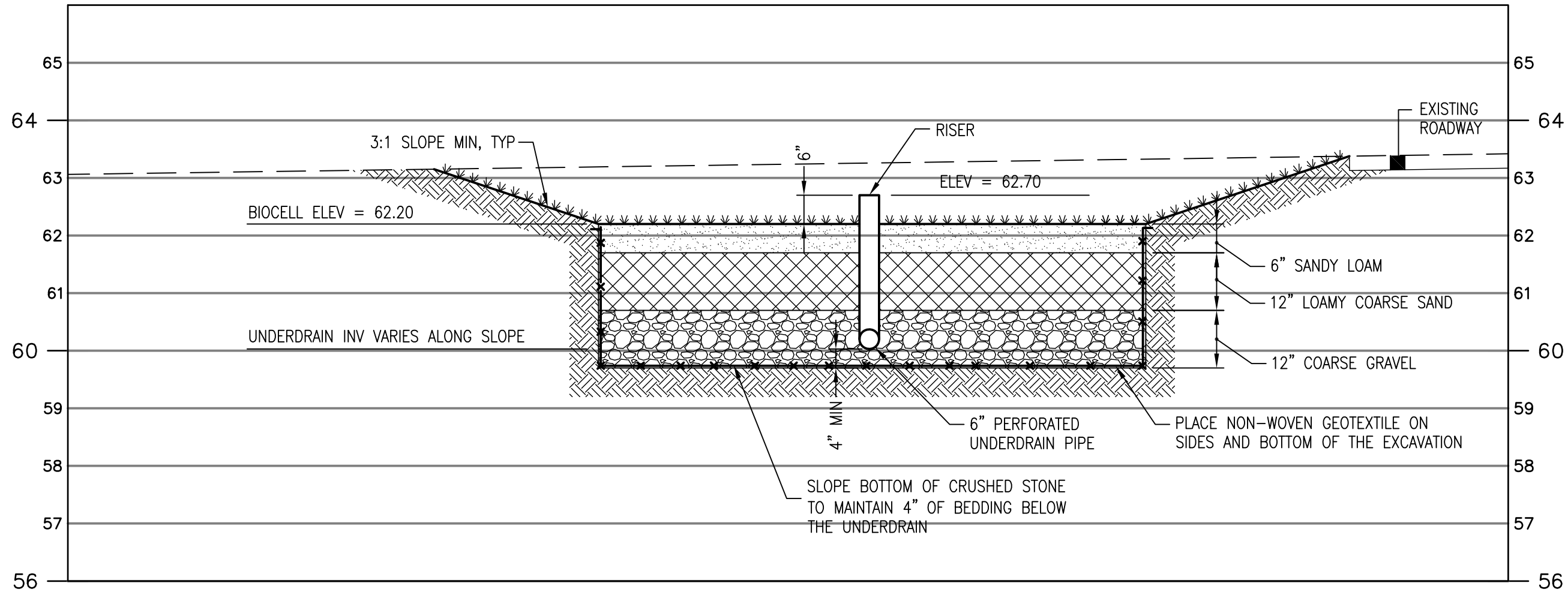


2 PRECAST CONCRETE CURB
 SCALE: NTS

DESIGN NOTES:

- CONCRETE 6000 PSI 28 DAYS.
 - REINFORCING WITH (2) #4 REBARS.
 - APPROXIMATE WEIGHT 130 LBS/LF.
 - RADI LARGER THAN 60 FT ARE FORMED FROM STRAIGHT SECTIONS.
 - ALL CURBING SHOULD BE COATED WITH A CLEAR SEALER EACH FALL TO PROTECT FROM ROAD SALT DAMAGE. CHECK WITH MFG. FOR APPROPRIATE TYPE.
- NOTE:**
 JOINTS WITH LOAM BEHIND CURB SHALL BE BACKED WITH GEOTEXTILE FABRIC OR FELT PAPER

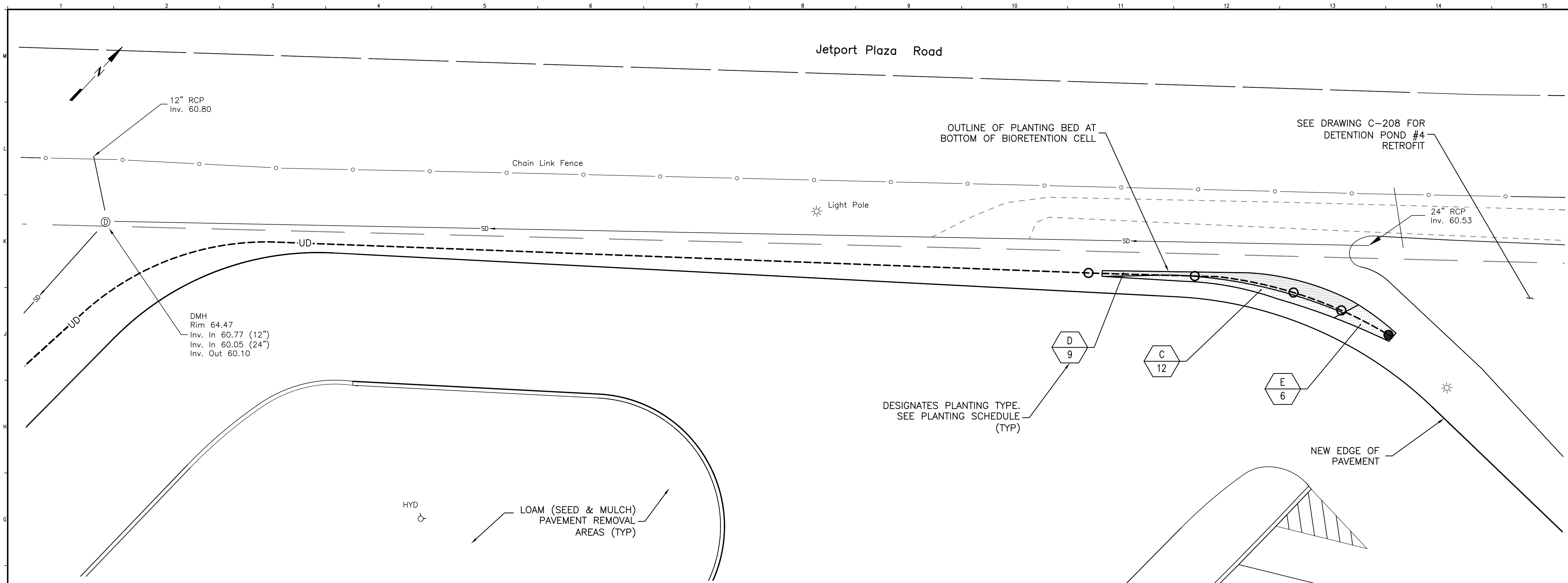
A BIORETENTION CELL #3
 SCALE: 1" = 2'



T:\Longcreek Watershed-South Portland\Texas Instrument\Sheets\TI-C-205.1.dwg Wed, 19 Jun 2013 4:48pm william.whittem

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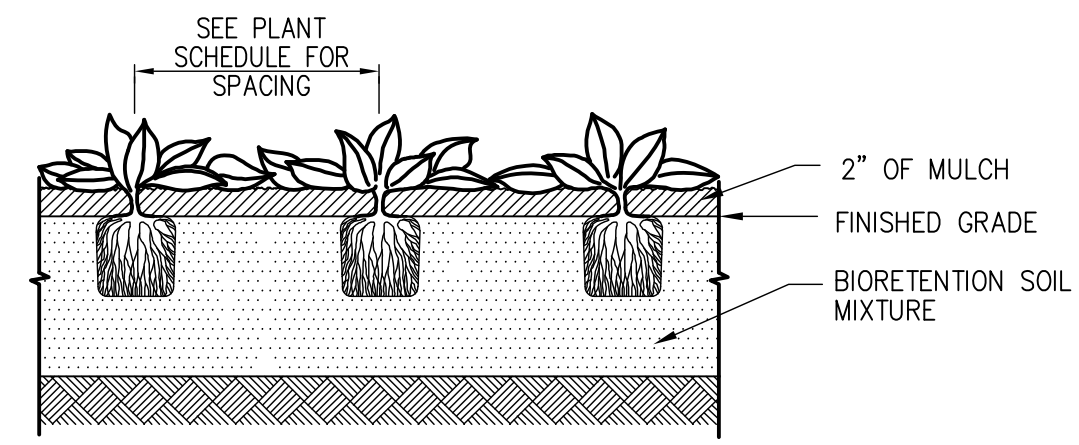


LANDSCAPING PLAN

SCALE: 1" = 10'

PLANT SCHEDULE

SYMBOL	QTY.	BOTANICAL NAME	COMMON NAME	HEIGHT	SPACING
C	12	ASTER NOVAE-ANGLIAE	NEW ENGLAND ASTER	1 GAL.	2' OC
D	9	PHYSOSTEGIA VIRGINIANA	OBEDIENT PLANT	1 GAL.	2' OC
E	6	IRIS VERSICOLOR	BLUE FLAG IRIS	1 GAL.	2' OC



HERBACEOUS PLANTING BED DETAIL

1 SCALE: NTS

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Issued for Construction
June 19, 2013

PROJECT: Long Creek Watershed Management District CATCHMENT C-08

TEXAS INSTRUMENTS, INC., FODEN ROAD, SOUTH PORTLAND, MAINE

REV	REVISION	ISSUE DESCRIPTION	DATE

PROJECT NUMBER: 3618128200
PROJECT MANAGER: TG
A/E OF RECORD: TG
DRAWN BY: WJW
CAD FILE: TI-C-205.2
SCALE: 1" = 10'
GRAPHIC SCALE:
0" 1"

TITLE:
BIORETENTION CELL #3
LANDSCAPING PLAN
DRAWING NO:
C-205.2
SHEET: 10 OF 14

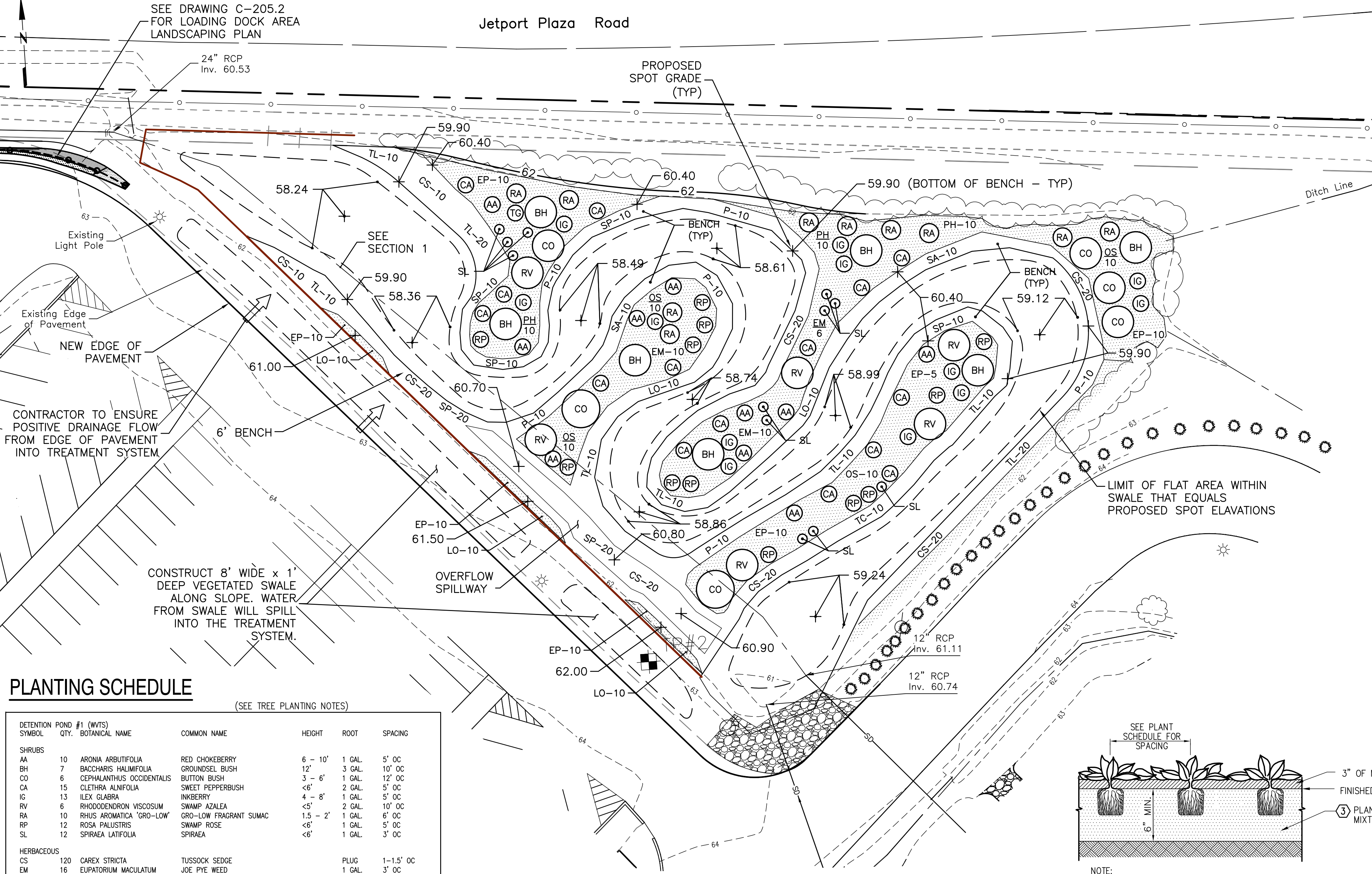
T:\Longcreek Watershed-South Portland\Texas Instrument\Sheets\TI-C-205.2.dwg Wed, 19 Jun 2013 12:09pm william.whitton

NOTE:

- SEE SHEET G-002 FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES.

PLANTING NOTES

- DIG BASE OF HOLE 2-3 TIMES WIDTH OF ROOTBALL AND AS DEEP AS THE ROOTBALL (NO DEEPER!) MEASURE FROM BASE OF SHRUB TO BOTTOM OF ROOTBALL. SET ROOTBALL CENTERED, WITH BASE OF SHRUB AT GROUND LEVEL OR SLIGHTLY HIGHER. CORRECT HOLE DEPTH AS NEEDED. SHRUBS THAT ARE PLANTED TOO DEEPLY WILL BE REJECTED AND SHALL BE REPLANTED AT NO ADDITIONAL COST TO THE OWNER.
- REMOVE CONTAINER AND CUT 4 OR 5 SHALLOW VERTICAL SLASHES INTO ROOTBALL TO BREAK ANY PATTERNS OF CIRCULAR GROWTH IF NECESSARY. GENTLY COMB OUT ROOTS. PRUNE DAMAGED ROOTS.
- AFTER THE PLANT IS IN THE HOLE, BACKFILL 3/4 OF THE WAY TO THE TOP OF THE ROOTBALL WITH THE FOLLOWING MIX: SHRUBS 1 FULL WHEEL BARROW TOP SOIL, 2 SHOVELS PEAT, 1 SHOVEL WELL ROTTED MANURE, OR OTHER COMPOSTED ORGANIC MATERIAL. PLANTING SOIL MIXTURE FOR PERENNIALS SHALL CONSIST OF 4 PARTS TOPSOIL, 2 PARTS SPHAGNUM PEAT MOSS AND ONE PART HORTICULTURAL PERLITE BY VOLUME. PEAT MOSS MAY BE SUBSTITUTED WITH WELL-ROTTED OR DEHYDRATED MANURE OR COMPOST.
- FILL THE HOLE WITH WATER TWICE, THEN BACKFILL THE REST OF THE WAY, WATER AGAIN.
- TAMP SOIL LIGHTLY AROUND ROOTBALL AND LEAVE RIDGE OF SOIL AROUND EDGE OF HOLE TO HOLD FUTURE WATERINGS.
- APPLY MULCH 2" DEEP TO RETAIN MOISTURE AND DISCOURAGE WEED GROWTH. DO NOT MULCH WITHIN 3" OF THE BASE OF PLANT.
- ALL BEDS SHALL RECEIVE 2" WELL ROTTED BLACK PINE BARK MULCH. MULCH SHALL BE FREE OF WEED SEEDS, SOIL, ROOTS OR ANY OTHER SUBSTANCE NOT CONSISTENT OF BARK. MULCH MAY NOT BE MORE THAN ONE YEAR OLD OR FRESH.
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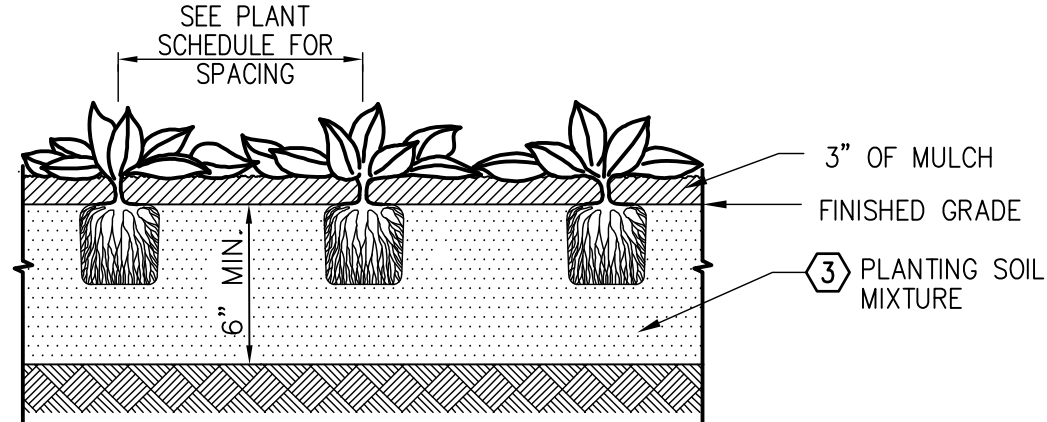
PLANTING SCHEDULE

(SEE TREE PLANTING NOTES)

SYMBOL	DETENTION POND #1 (WVTS)	QTY.	BOTANICAL NAME	COMMON NAME	HEIGHT	ROOT	SPACING
SHRUBS							
AA	10		ARONIA ARBUTIFOLIA	RED CHOKEBERRY	6 - 10'	1 GAL.	5' OC
BH	7		BACCHARIS HALIMIFOLIA	GROUNDSEL BUSH	12"	3 GAL.	10' OC
CA	6		CEPHALANTHUS OCCIDENTALIS	BUTTON BUSH	3 - 6'	1 GAL.	12' OC
CO	15		CLETHRA ALNIFOLIA	SWEET PEPPERBUSH	<6"	2 GAL.	5' OC
IG	13		ILEX GLABRA	HICKBERRY	4 - 8'	1 GAL.	5' OC
RV	6		RHOODODENDRON VISCOSUM	SWAMP AZALEA	<5"	2 GAL.	10' OC
RA	10		RHUS AROMATICA 'GRO-LOW'	GRO-LOW FRAGRANT SUMAC	1.5 - 2'	1 GAL.	6' OC
RP	12		ROSA PALUSTRIS	SWAMP ROSE	<6"	1 GAL.	5' OC
SL	12		SPIRAEA LATIFOLIA	SPIRAEA	<6"	1 GAL.	3' OC
HERBACEOUS							
CS	120		CAREX STRICTA	TUSSOCK SEDGE		PLUG	1-1.5' OC
EM	16		EUPATORIUM MACULATUM	JOE PYE WEED		1 GAL.	3' OC
EP	75		EUPATORIUM PERFORLATUM	BONESET		0.5-1 GAL.	1.5'-2' OC
LO	60		LEERSIA ORYZOIDESRICE	CUTGRASS		PLUG	1-3' OC
OS	50		ONOCLEA SENSIBILIS	SENSITIVE FERN		0.5-1 GAL.	2' OC
PH	30		PHYSOSTEGIA VIRGINIANA	ORIENTAL PLANT		1 GAL.	2' OC
P	80		PANICUM VIRGATUM	SWITCH GRASS		1 GAL.	3' OC
SA	60		SCIRPUS ACUTUS	HARDSTEM BULRUSH		PLUG	1-1.5' OC
SP	80		SCIRPUS PUNGENS	THREE-SQUARE BULRUSH		PLUG	1-1.5' OC
TL	120		TYPHA LATIFOLIA	CATTAIL		PLUG	1-1.5' OC

WET VEGETATED TREATMENT SYSTEM

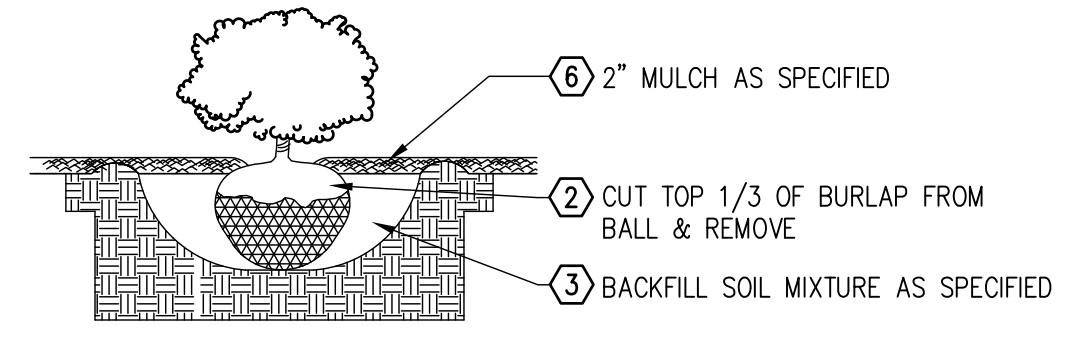
SCALE: 1" = 20'



NOTE: NO MULCH WILL BE PLACED WITHIN 6" MIN. OF THE BASE OF PLANT OR OVERFLOW SPILLWAY

HERBACEOUS PLANTING DETAIL

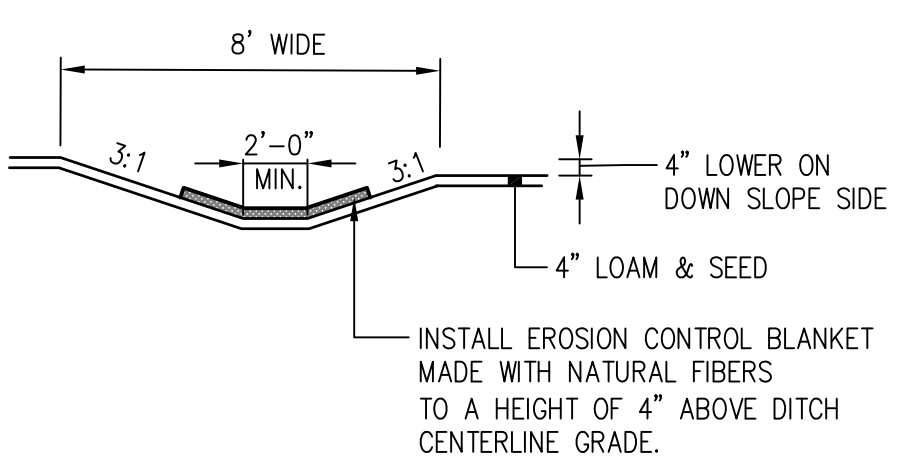
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(SEE PLANTING NOTES)

SHRUB PLANTING DETAIL

SCALE: NTS

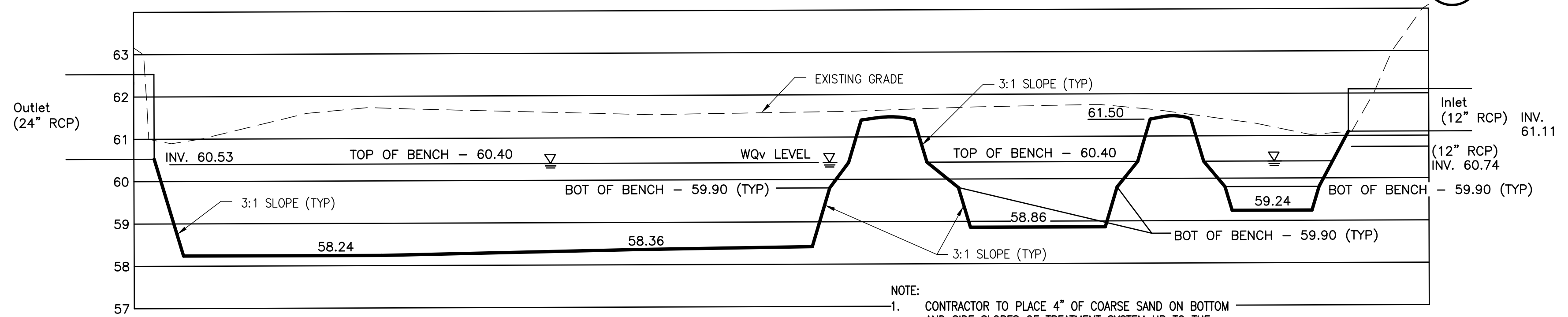


VEGETATED SWALE

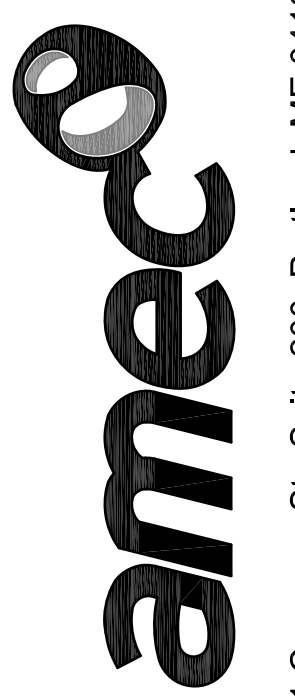
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1 WET VEGETATED TREATMENT SYSTEM SECTION

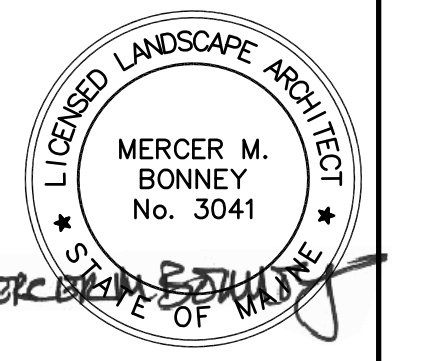
SCALE: 1" = 20' (HOR.) / 1" = 2' (VERT.)



- NOTE:
- CONTRACTOR TO PLACE 4" OF COARSE SAND ON BOTTOM AND SIDE SLOPES OF TREATMENT SYSTEM UP TO THE START OF THE BENCH.
 - CONTRACTOR TO INSTALL ONSITE BORROW FOR TREATMENT SYSTEM BERM CONSTRUCTION.
 - ALL SLOPES BELOW AND ABOVE BENCH TO BE 3:1.



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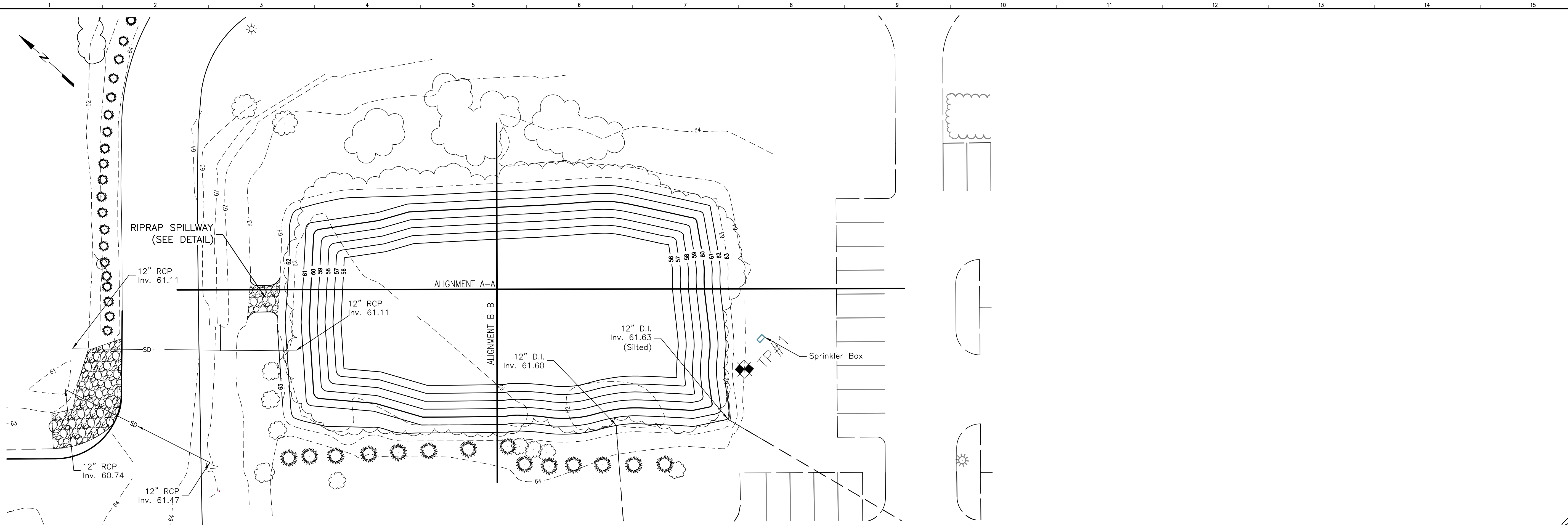


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TEXAS INSTRUMENTS, INC., FODEN ROAD, SOUTH PORTLAND, MAINE

REV	REVISION	DATE

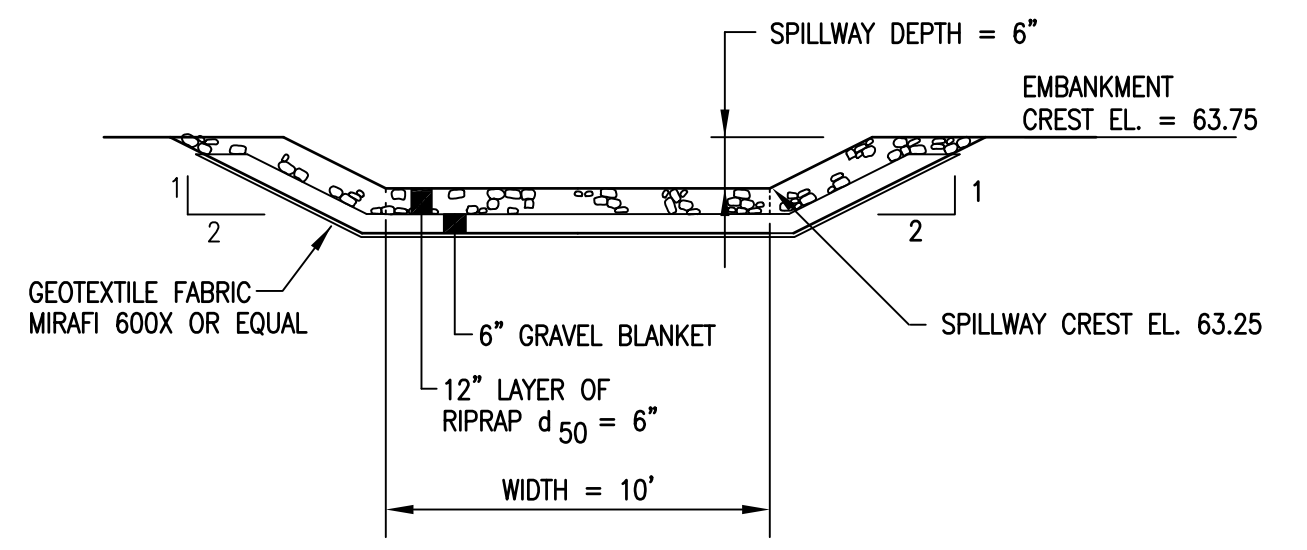
PROJECT NUMBER: 3618128200
PROJECT MANAGER: TG
A/E OF RECORD: TG
DRAWN BY: WJW
CAD FILE: TI-C-206
SCALE: 1" = 20'
GRAPHIC SCALE: 0" 1"

TITLE:
WET VEGETATED TREATMENT SYSTEM
DRAWING NO:
C-206
SHEET: 11 OF 14

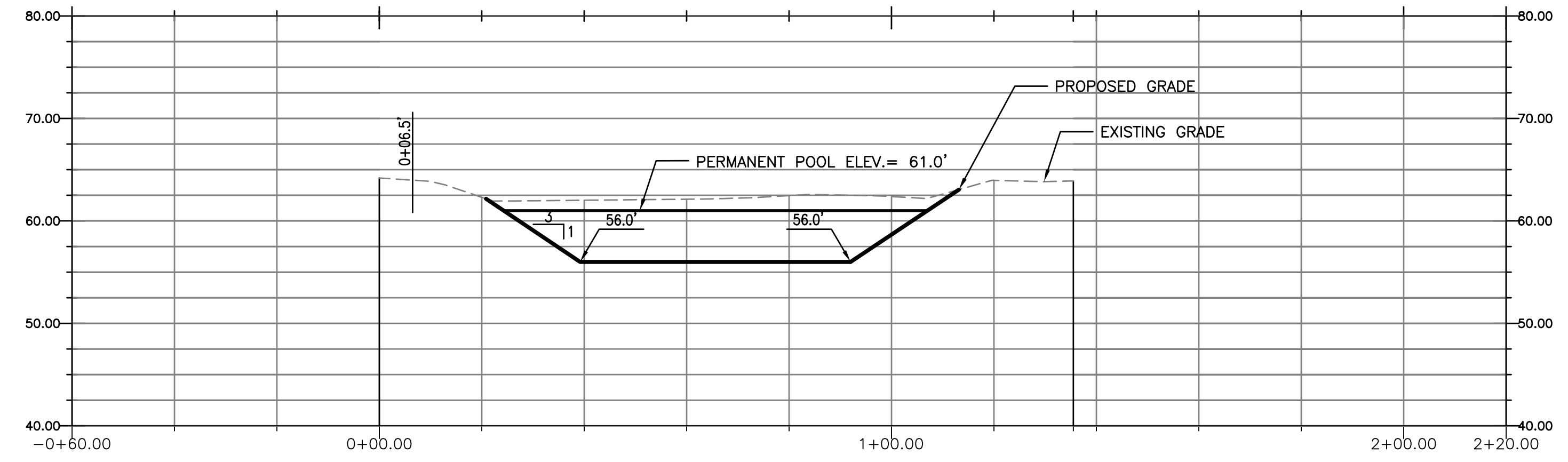


WET POND
SCALE: 1" = 20'

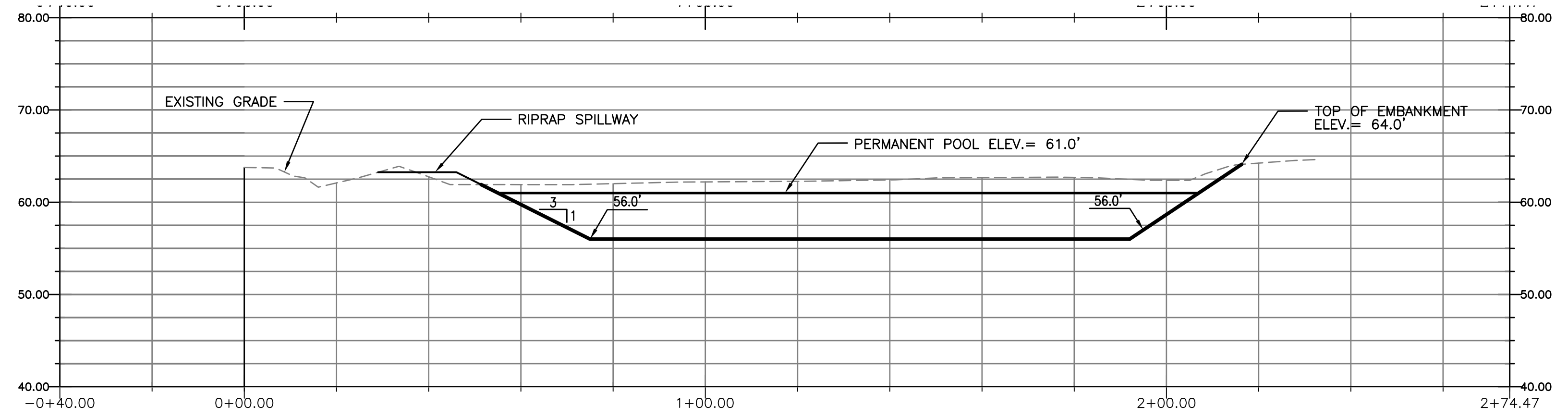
NOTE:
CONTRACTOR TO PLACE 4" OF COARSE SAND ON THE BOTTOM AND SIDE SLOPES OF THE WET POND UP TO ELEVATION 61.0. SIDE SLOPES BEYOND THE 61.0 CONTOUR WILL HAVE 4" OF LOAM, SEED, AND MULCH PLACED.



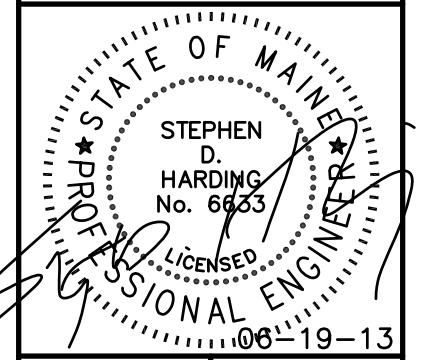
1 RIPRAP SPILLWAY SECTION
SCALE: NTS



ALIGNMENT B-B
1" = 20' HORIZONTAL, 1" = 10' VERTICAL



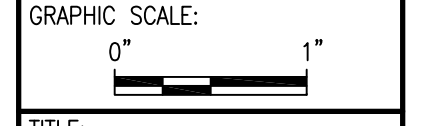
ALIGNMENT A-A
1" = 20' HORIZONTAL, 1" = 10' VERTICAL



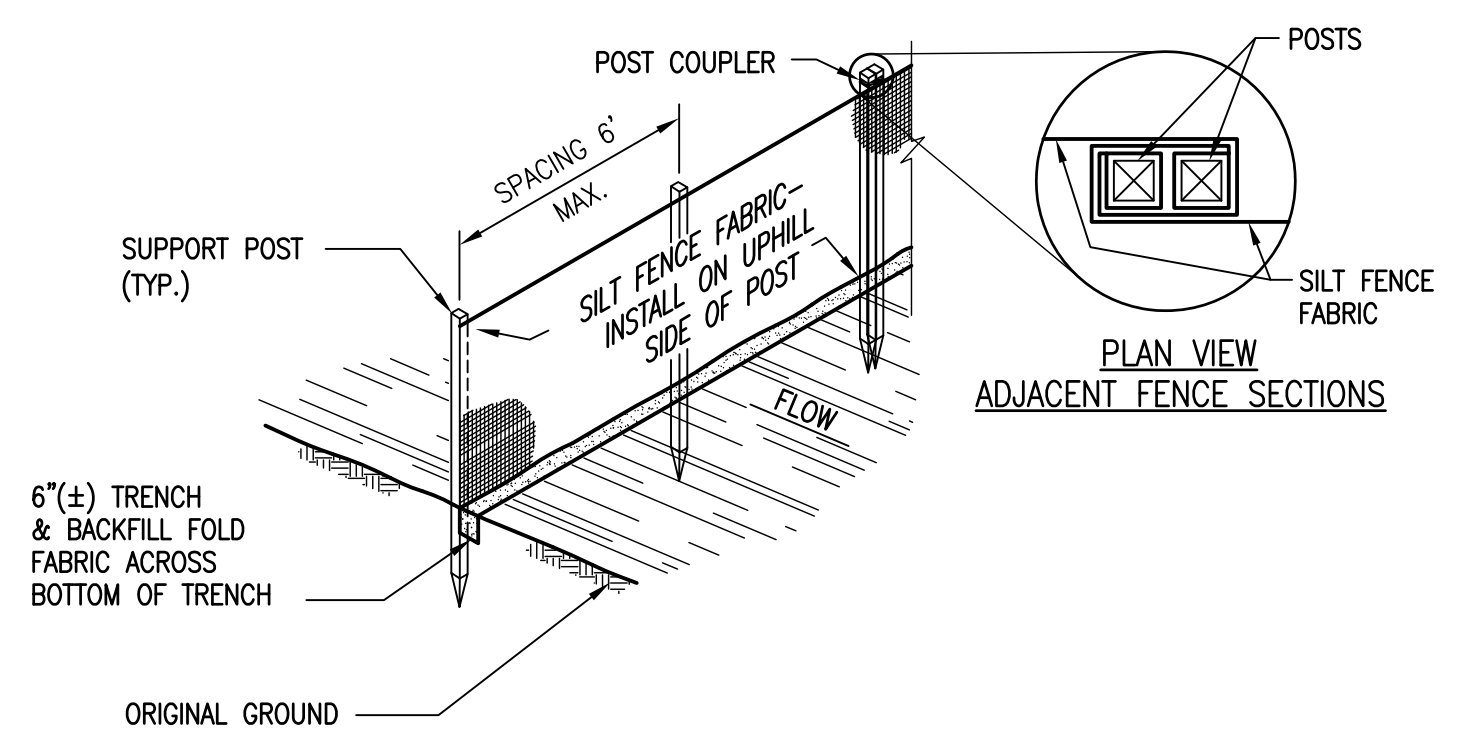
Issued for Construction
June 19, 2013
PROJECT:
Long Creek Watershed Management District
CATCHMENT C-08
TEXAS INSTRUMENTS, INC., FODEN ROAD, SOUTH PORTLAND, MAINE

REV	REVISION	ISSUE DESCRIPTION	DATE

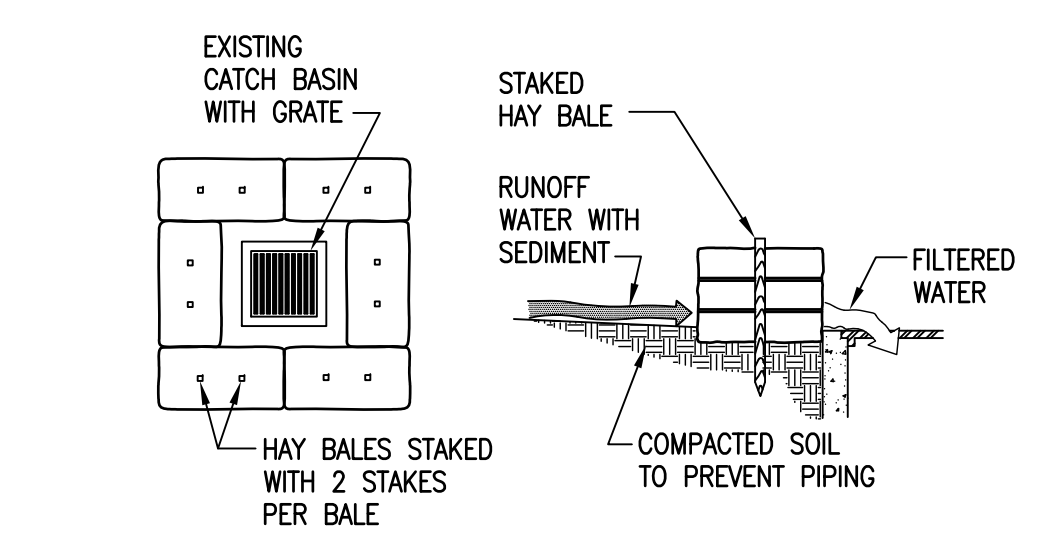
PROJECT NUMBER: 3618128200
PROJECT MANAGER: TG
A/E OF RECORD: TG
DRAWN BY: WJW
CAD FILE: TI-C-207
SCALE: 1" = 10'-0"



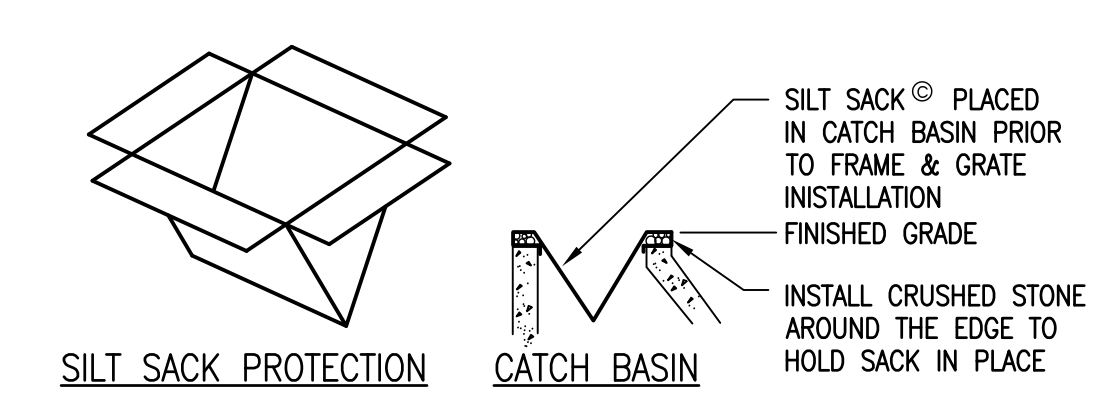
TITLE:
WET POND
PLAN AND PROFILE
DRAWING NO:
C-207
SHEET: 12 OF 14



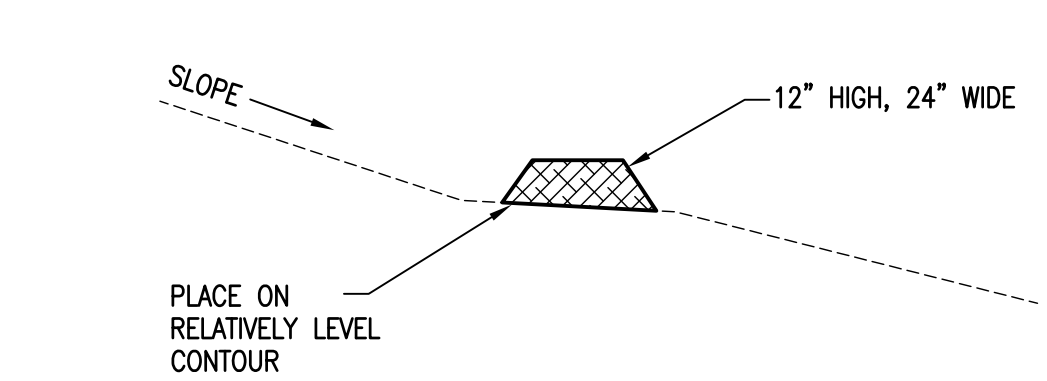
1 SILTATION FENCE INSTALLATION DETAIL
SCALE: N.T.S.



2 HAY BALE SEDIMENT FILTER
SCALE: N.T.S.



3 CATCH BASIN PROTECTION (PAVED AREAS)
SCALE: N.T.S.

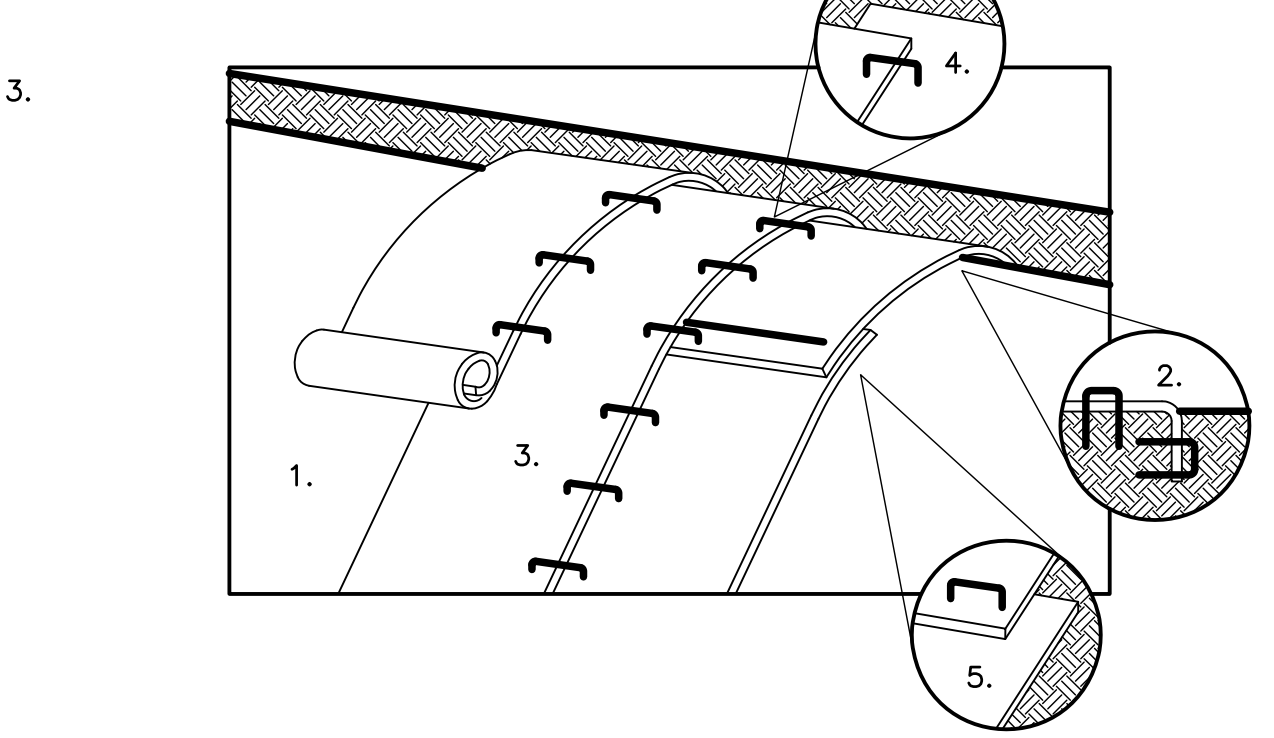


4 EROSION CONTROL MIX BERM
SCALE: N.T.S.

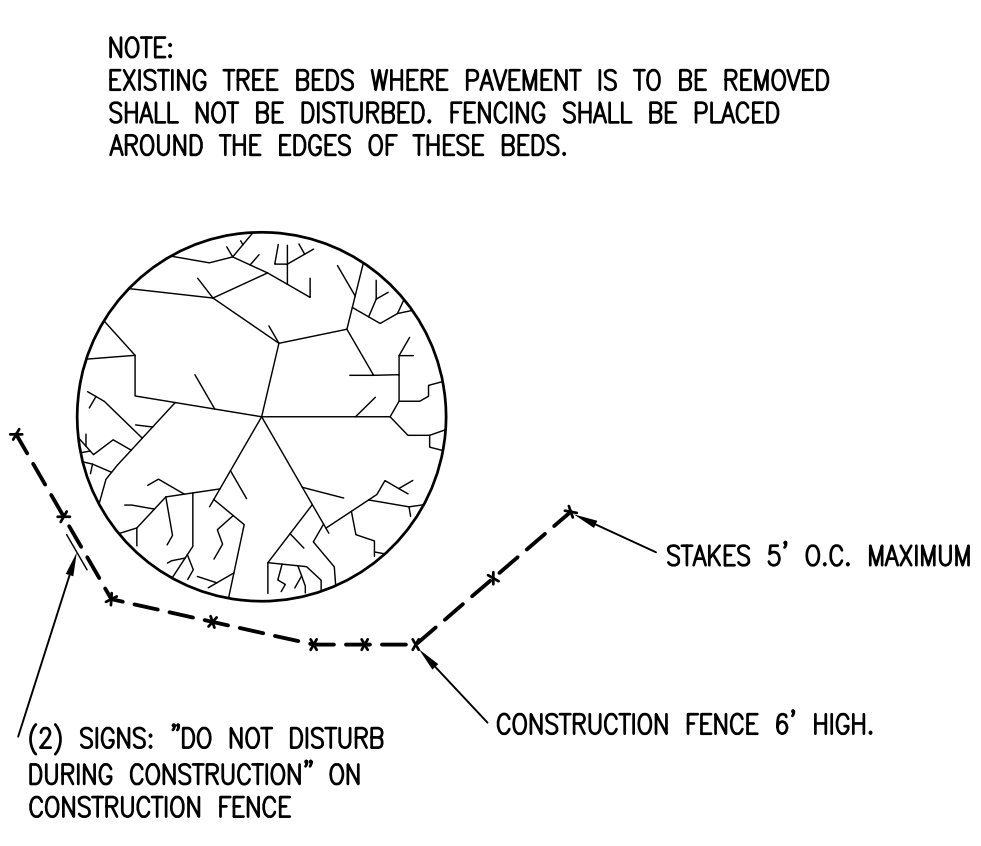
NOTE:
COMPOSITION OF BERM SHALL CONTAIN A WELL-GRADED MIXTURE OF PARTICLES SIZES AND MAY CONTAIN ROCKS LESS THAN 4" IN DIA. EROSION CONTROL MIX MUST BE FREE OF REFUSE, PHYSICAL CONTAMINANTS AND MATERIAL TOXIC TO PLANT GROWTH. THE MIX COMPOSITION SHALL MEET THE FOLLOWING STANDARDS:
-ORGANIC MATTER CONTENT SHALL BE BETWEEN 80 AND 100% DRY WEIGHT BASIS.
-PARTICLE SIZE BY WEIGHT SHALL BE 100% PASSING A 6" SCREEN AND A MIN. OF 70% MAX. OF 85% PASSING A 0.75" SCREEN.
-ORGANIC PORTION NEEDS TO BE FIBROUS AND ELONGATED.
-LARGE PORTIONS OF SILTS, CLAYS OR FINE SANDS ARE NOT ACCEPTABLE IN THE MIX.
-SOLUBLE SALTS CONTENT SHALL BE <4.0 MMHOS/CM.
-PH SHOULD FALL BETWEEN 5.0 AND 8.0.

EROSION CONTROL BLANKET SHALL BE IN ACCORDANCE WITH MDOT STANDARD SPECIFICATIONS, SECTION 613, TEMPORARY EROSION CONTROL BLANKETS AND EXTENDED USE EROSION CONTROL BLANKETS.

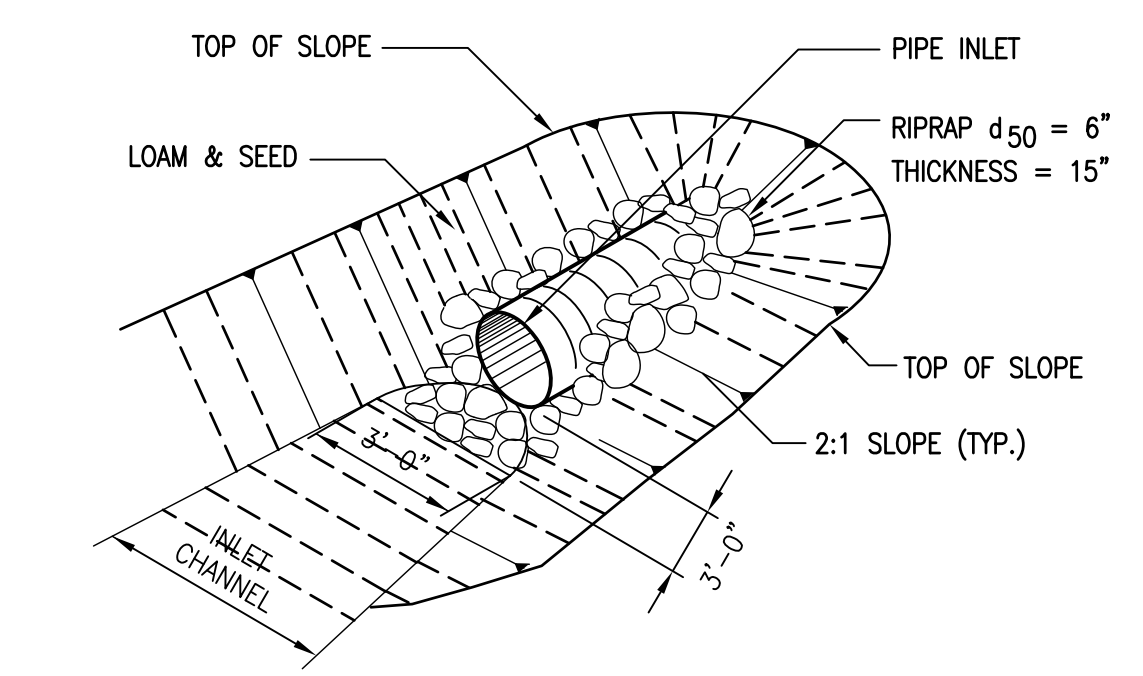
- PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING LIME, FERTILIZER & SEED.
- BEGIN AT TOP OF SLOPE BY ANCHORING BLANKET IN 6" X 6" TRENCH. BACKFILL & COMPACT TRENCH AFTER STAPLING.
- ROLL BLANKETS DOWN OR HORIZONTALLY ACROSS SLOPE.
- THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROX. 2" OVERLAP.
- WHEN BLANKETS MUST BE SPLICED DOWN THE SLOPE, PLACE BLANKETS END OVER END (SHINGLE STYLE) WITH APPROX. 4" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROX. 12" APART.



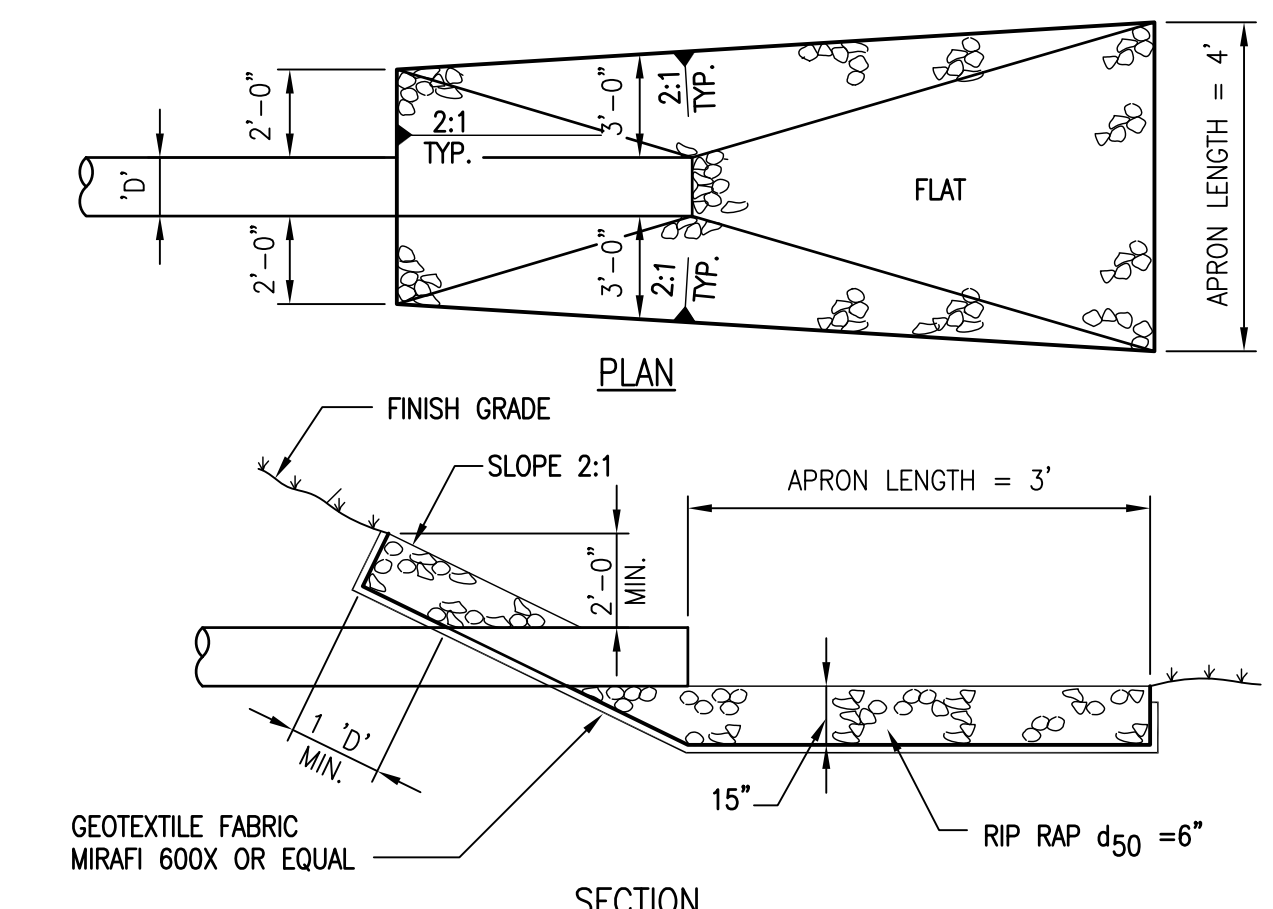
5 SLOPE STABILIZATION DETAIL
SCALE: N.T.S.



6 TREE PROTECTION DETAIL
SCALE: N.T.S.



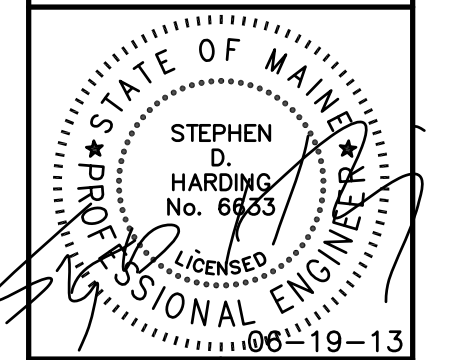
7 RIP RAP INLET DETAIL
SCALE: N.T.S.



8 RIP RAP OUTLET DETAIL
SCALE: N.T.S.



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Issued for Construction
June 19, 2013

PROJECT: Long Creek Watershed Management District
CATCHMENT C-08

TEXAS INSTRUMENTS, INC., FODEN ROAD, SOUTH PORTLAND, MAINE

REV	REVISION ISSUE DESCRIPTION	DATE

PROJECT NUMBER: 3618128200
PROJECT MANAGER: TG
A/E OF RECORD: TG
DRAWN BY: WJW
CAD FILE: TI-C-401
SCALE: AS NOTED
GRAPHIC SCALE:
0" 1"

TITLE:
EROSION CONTROL DETAILS

DRAWING NO:
C-401
SHEET: 13 OF 14

