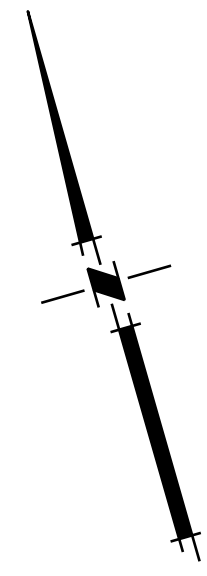
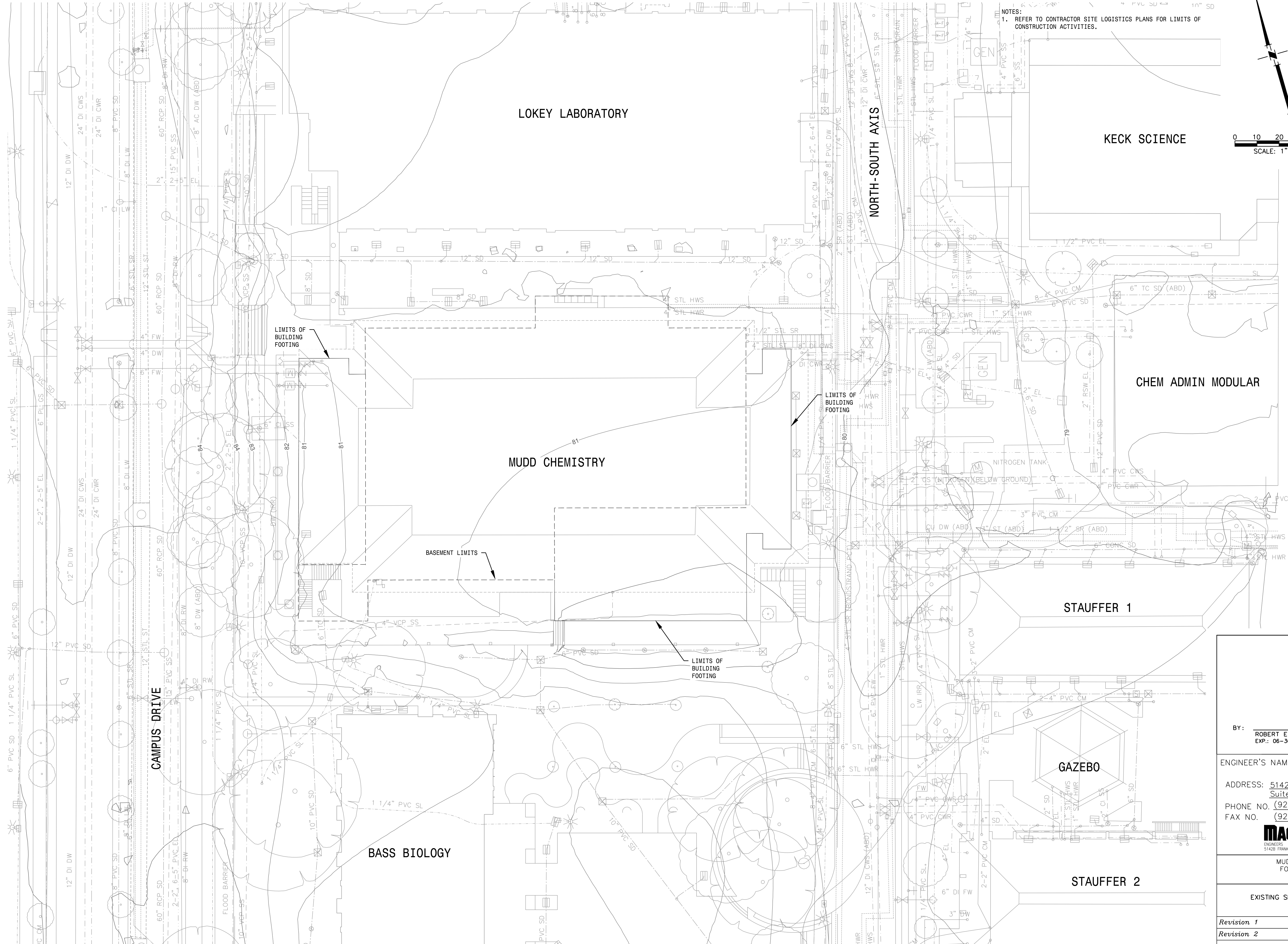


NOTES:
 1. REFER TO CONTRACTOR SITE LOGISTICS PLANS FOR LIMITS OF CONSTRUCTION ACTIVITIES.



0 10 20 40
 SCALE: 1"=20'



LOKEY LABORATORY

KECK SCIENCE

CHEM ADMIN MODULAR

MUDD CHEMISTRY

STAUFFER 1

GAZEBO

STAUFFER 2

BASS BIOLOGY

CAMPUS DRIVE

NORTH-SOUTH AXIS

LIMITS OF BUILDING FOOTING

LIMITS OF BUILDING FOOTING

LIMITS OF BUILDING FOOTING

BASEMENT LIMITS



BY: ROBERT E. LASHELLS JR. DATE: 08-20-2020
 RCE No. 56684 EXP: 06-30-2021

ENGINEER'S NAME: Mackay & Soms Civil Engineers

ADDRESS: 5142 Franklin Drive Suite B

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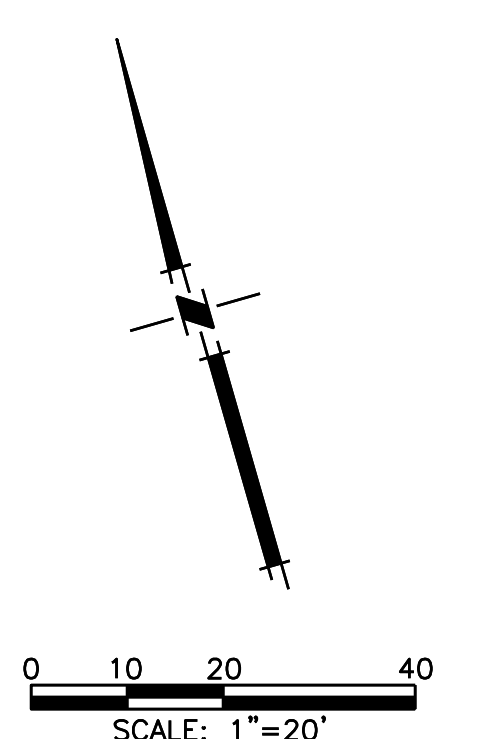
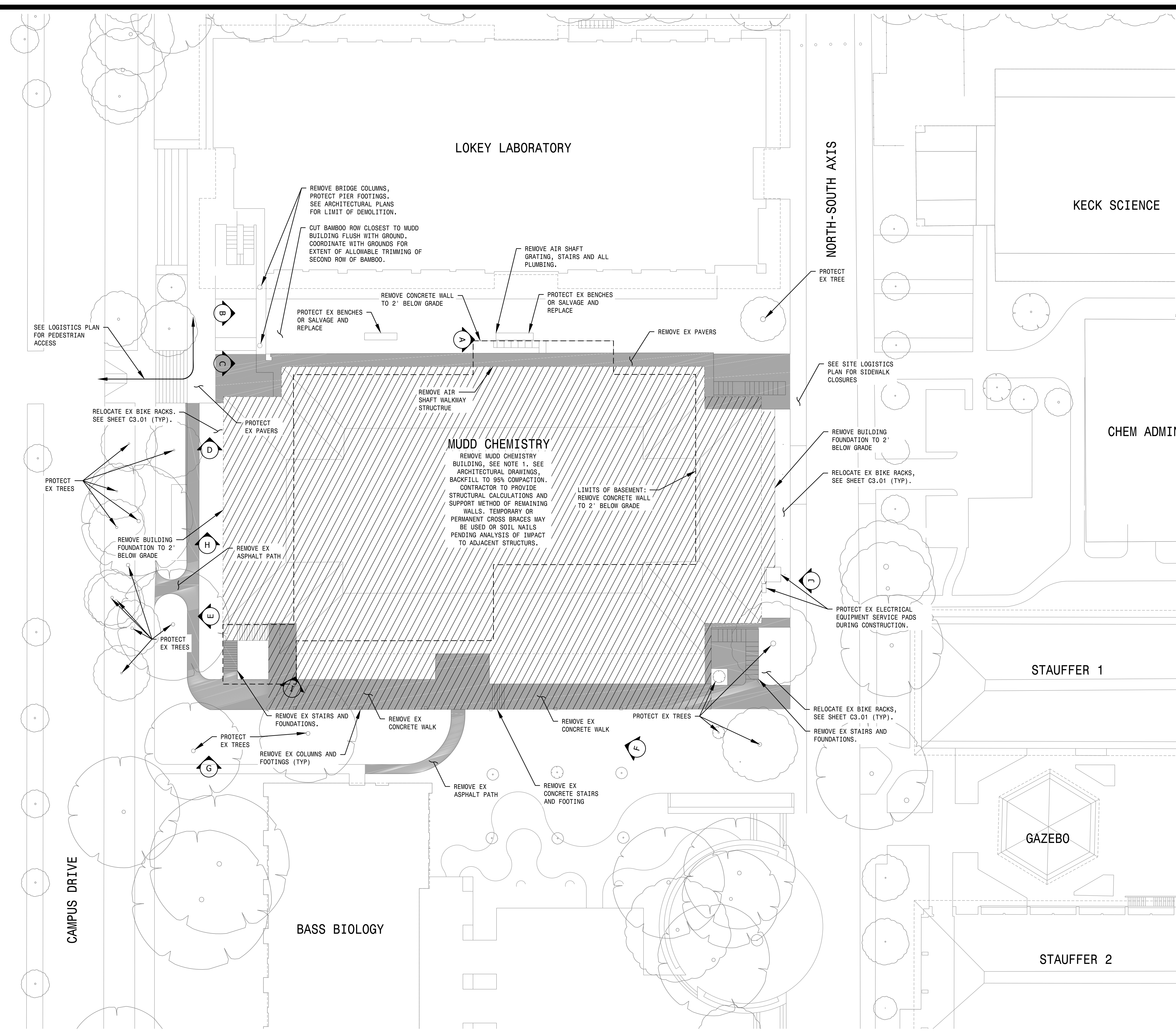
MACKAY & SOMPS
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 5142B FRANKLIN DR., PLEASANTON, CA 94588 (925) 225-0690

MUDD CHEMISTRY DEMOLITION FOR STANFORD UNIVERSITY

EXISTING SITE, TOPOGRAPHY, AND UTILITIES

Revision 1	APN 142-05-024	Sheet
Revision 2	Co. File XXXXX-XXXX	C1.0

08-18-2020 10:13am Travis Pasion-SWA 230225 USE/VP GRADING PERMIT C2.0 - BUILDING DEMOLITION - MUDD.CMG



- LEGEND**
- PAVEMENT/CONCRETE REMOVAL
 - STRUCTURE REMOVAL
 - PHOTO LOCATIONS SEE SHEET C2.03
 - PROJECT LIMITS

- NOTES:**
1. BASEMENT FLOOR AND PERIMETER WALLS TO REMAIN. JACKHAMMER 18" SQUARE HOLES IN FLOOR AT 15' GRID PATTERN FOR DRAINAGE. CONCRETE RUBBLE MAY REMAIN IN HOLES.
 2. REFER TO CONTRACTOR SITE LOGISTICS PLANS FOR LIMITS OF CONSTRUCTION ACTIVITIES.



BY: ROBERT E. LASHELLS JR. DATE: 08-20-2020
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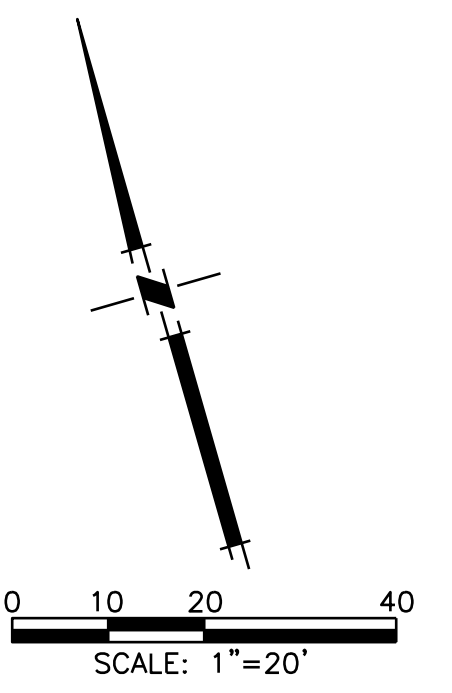
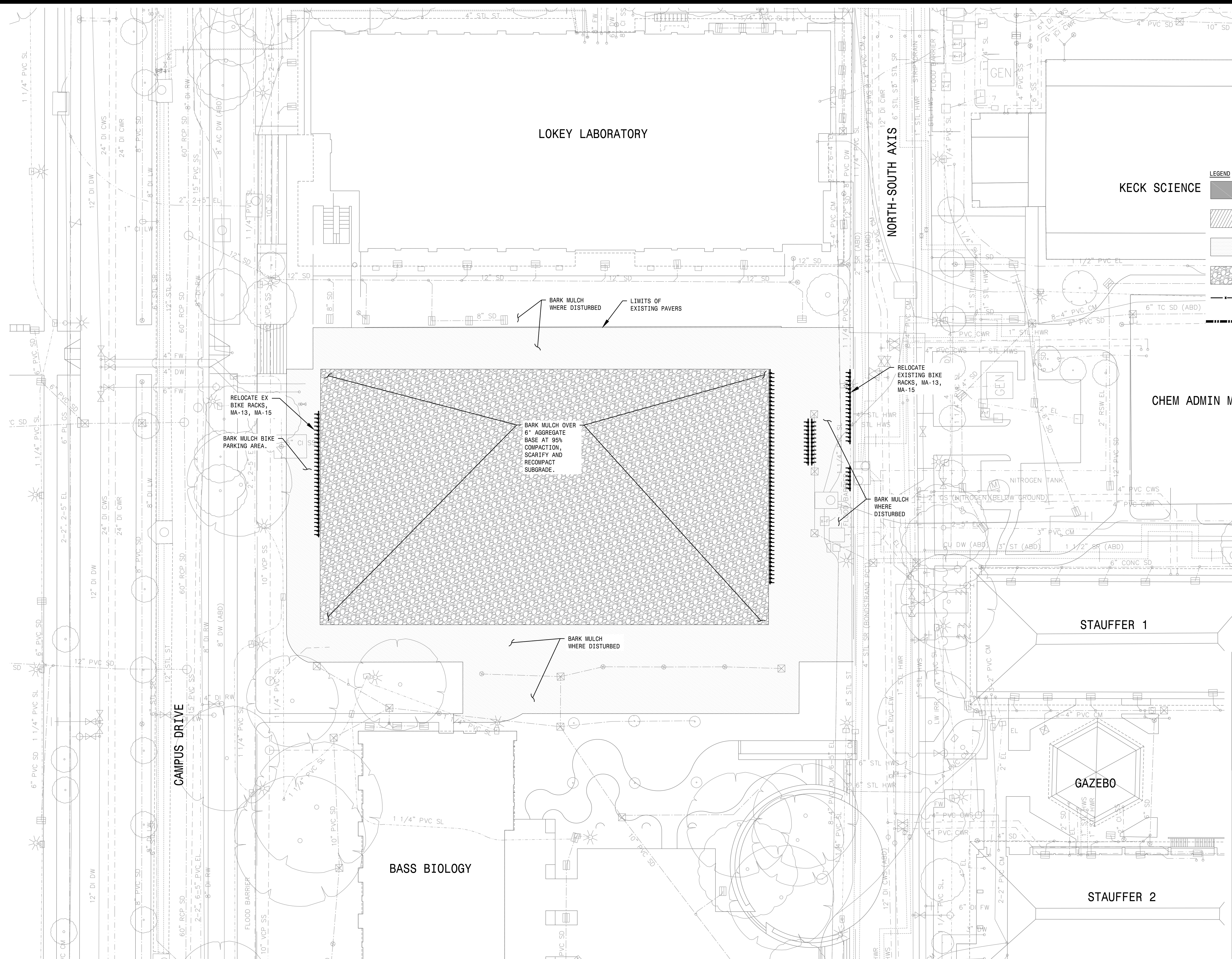
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MUDD CHEMISTRY DEMOLITION FOR STANFORD UNIVERSITY

BUILDING & SURFACE DEMOLITION PLAN

Revision 1	APN 142-05-024	Sheet
Revision 2	Co. File XXXXX-XXXX	C2.0



- LEGEND**
- AC PAVEMENT PATH CS-286
 - 3" DC GRANITE 90% COMPACTION
 - BARK MULCH
 - 6" AGGREGATE BASE, 95% COMPACTION
 - CHAIN LINK FENCE
 - PROJECT LIMITS

LOKEY LABORATORY

KECK SCIENCE

NORTH-SOUTH AXIS

CHEM ADMIN MODULAR

STAUFFER 1

GAZEBO

STAUFFER 2

BASS BIOLOGY

CAMPUS DRIVE

RELOCATE EX
BIKE RACKS,
MA-13, MA-15

BARK MULCH BIKE
PARKING AREA.

BARK MULCH OVER
6" AGGREGATE
BASE AT 95%
COMPACTION,
SCARIFY AND
RECOMPACT
SUBGRADE.

RELOCATE
EXISTING BIKE
RACKS, MA-13,
MA-15

BARK MULCH
WHERE
DISTURBED

BARK MULCH
WHERE
DISTURBED

BARK MULCH
WHERE
DISTURBED

LIMITS OF
EXISTING PAVERS



BY: ROBERT E. LASHELLS JR. DATE: 08-20-2020
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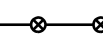
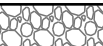
MUDD CHEMISTRY DEMOLITION
FOR STANFORD UNIVERSITY

PROPOSED IMPROVEMENTS

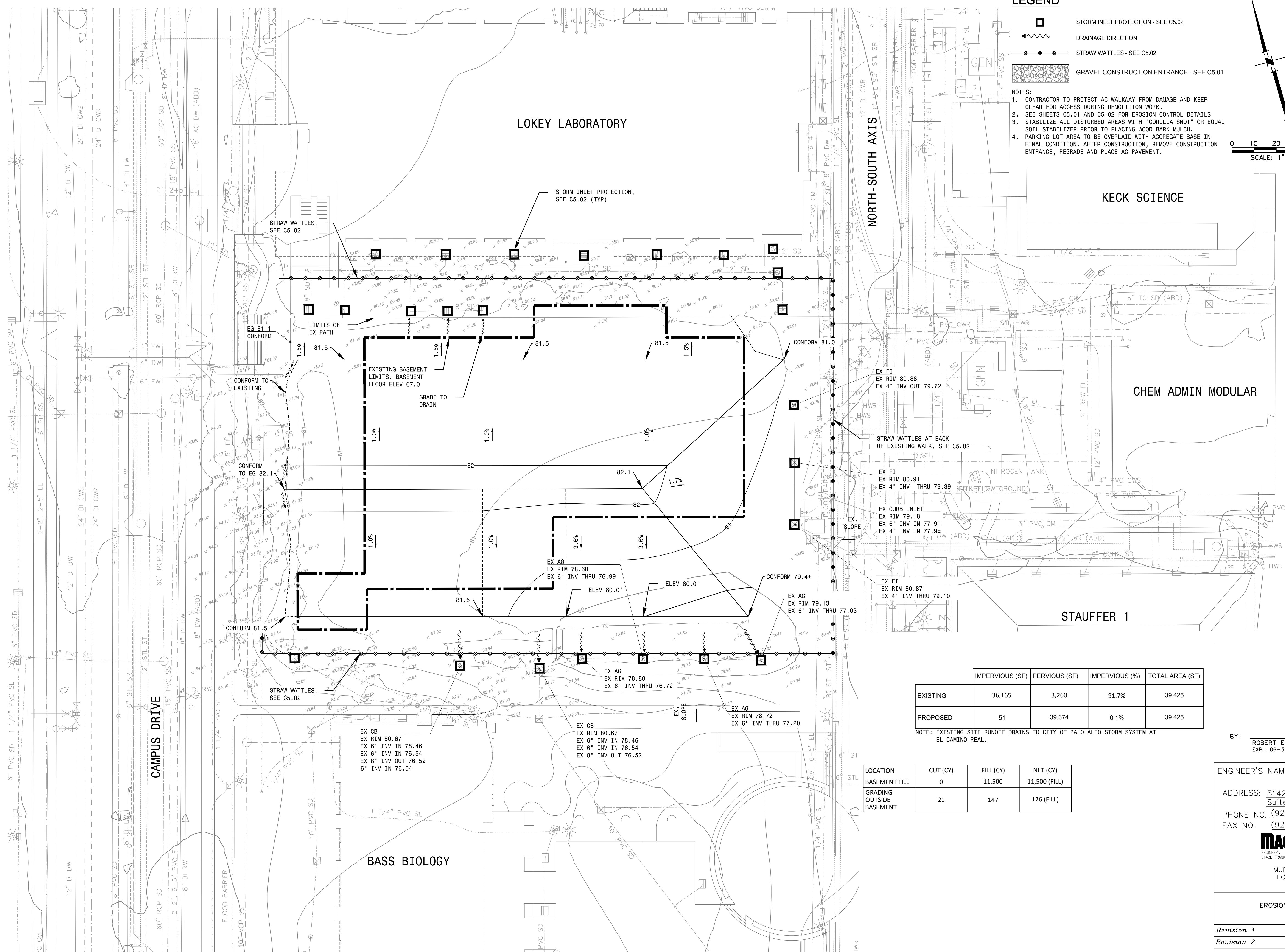
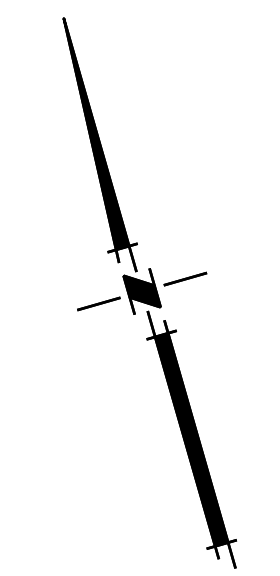
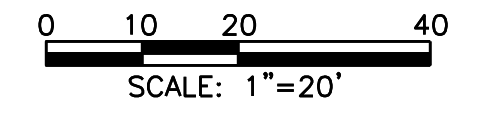
Revision 1	APN 142-05-024	Sheet
Revision 2	Co. File XXXX-XXXX	C3.0

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LEGEND

-  STORM INLET PROTECTION - SEE C5.02
-  DRAINAGE DIRECTION
-  STRAW WATTLES - SEE C5.02
-  GRAVEL CONSTRUCTION ENTRANCE - SEE C5.01

- NOTES:**
1. CONTRACTOR TO PROTECT AC WALKWAY FROM DAMAGE AND KEEP CLEAR FOR ACCESS DURING DEMOLITION WORK.
 2. SEE SHEETS C5.01 AND C5.02 FOR EROSION CONTROL DETAILS
 3. STABILIZE ALL DISTURBED AREAS WITH "GORILLA SNOT" OR EQUAL SOIL STABILIZER PRIOR TO PLACING WOOD BARK MULCH.
 4. PARKING LOT AREA TO BE OVERLID WITH AGGREGATE BASE IN FINAL CONDITION. AFTER CONSTRUCTION, REMOVE CONSTRUCTION ENTRANCE, REGRADE AND PLACE AC PAVEMENT.



	IMPERVIOUS (SF)	PERVIOUS (SF)	IMPERVIOUS (%)	TOTAL AREA (SF)
EXISTING	36,165	3,260	91.7%	39,425
PROPOSED	51	39,374	0.1%	39,425

NOTE: EXISTING SITE RUNOFF DRAINS TO CITY OF PALO ALTO STORM SYSTEM AT EL CAMINO REAL.

LOCATION	CUT (CY)	FILL (CY)	NET (CY)
BASEMENT FILL	0	11,500	11,500 (FILL)
GRADING OUTSIDE BASEMENT	21	147	126 (FILL)



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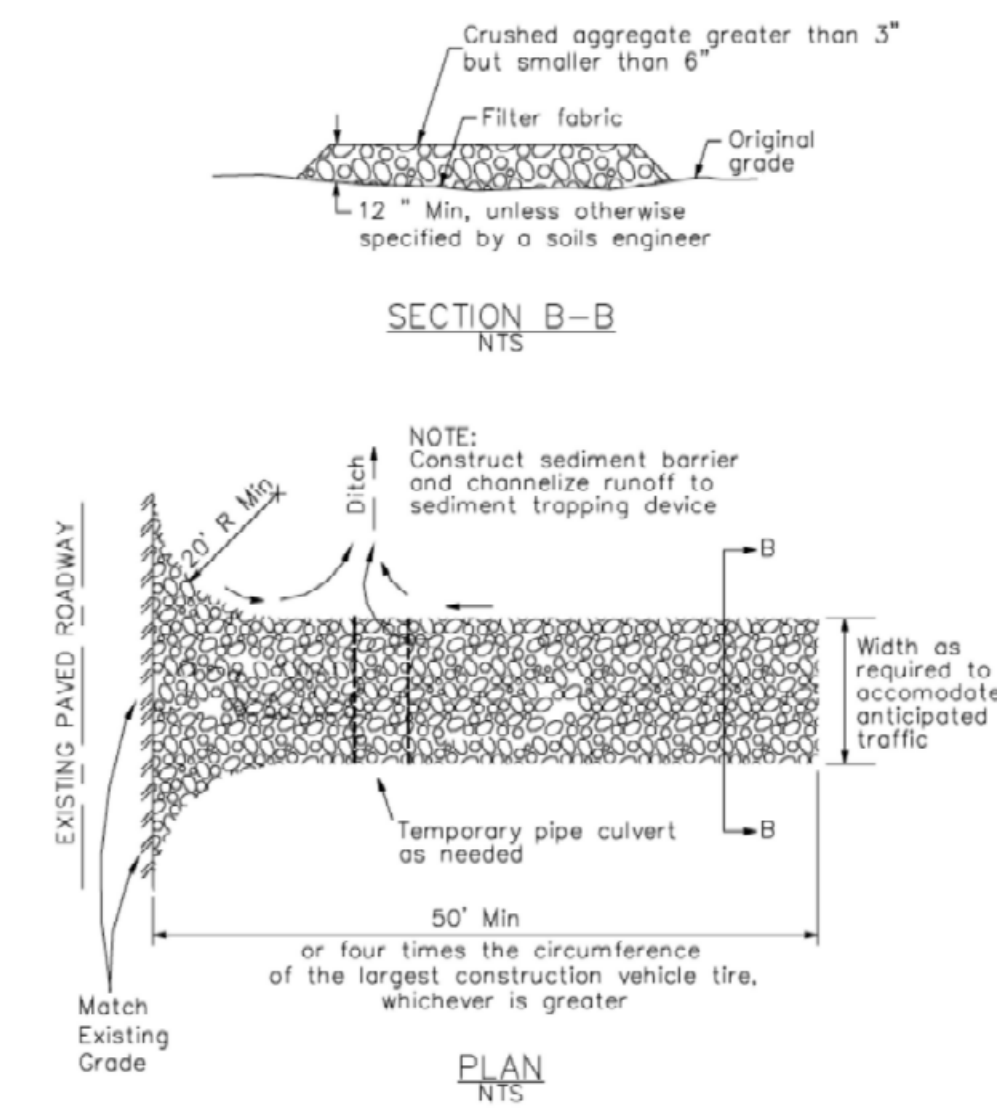
MUDD CHEMISTRY DEMOLITION
FOR STANFORD UNIVERSITY

EROSION CONTROL & GRADING PLAN

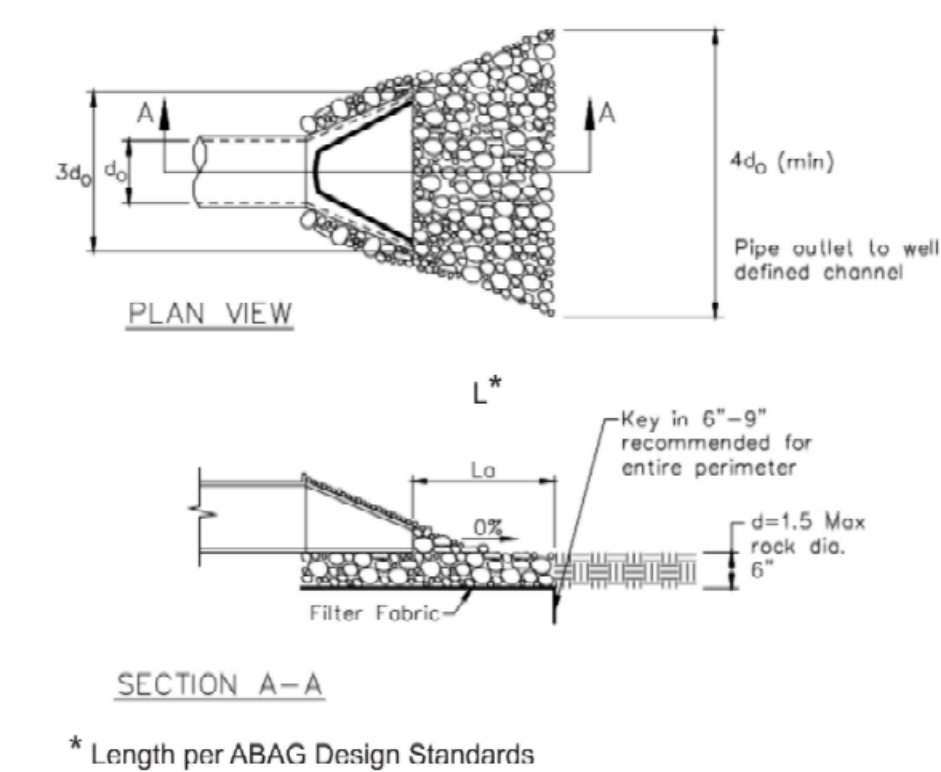
Revision 1	APN 142-05-024	Sheet
Revision 2	Co. File XXXX-XXXX	C4.0

08-18-2020 10:27am T:\ms\piston-sha\20025\DESIGN\GRADING PERMIT\CA0- EROSION CONTROL PLAN - MIDD.DWG

3 Stabilized Construction Entrance/Exit
CASQA Detail TC-1

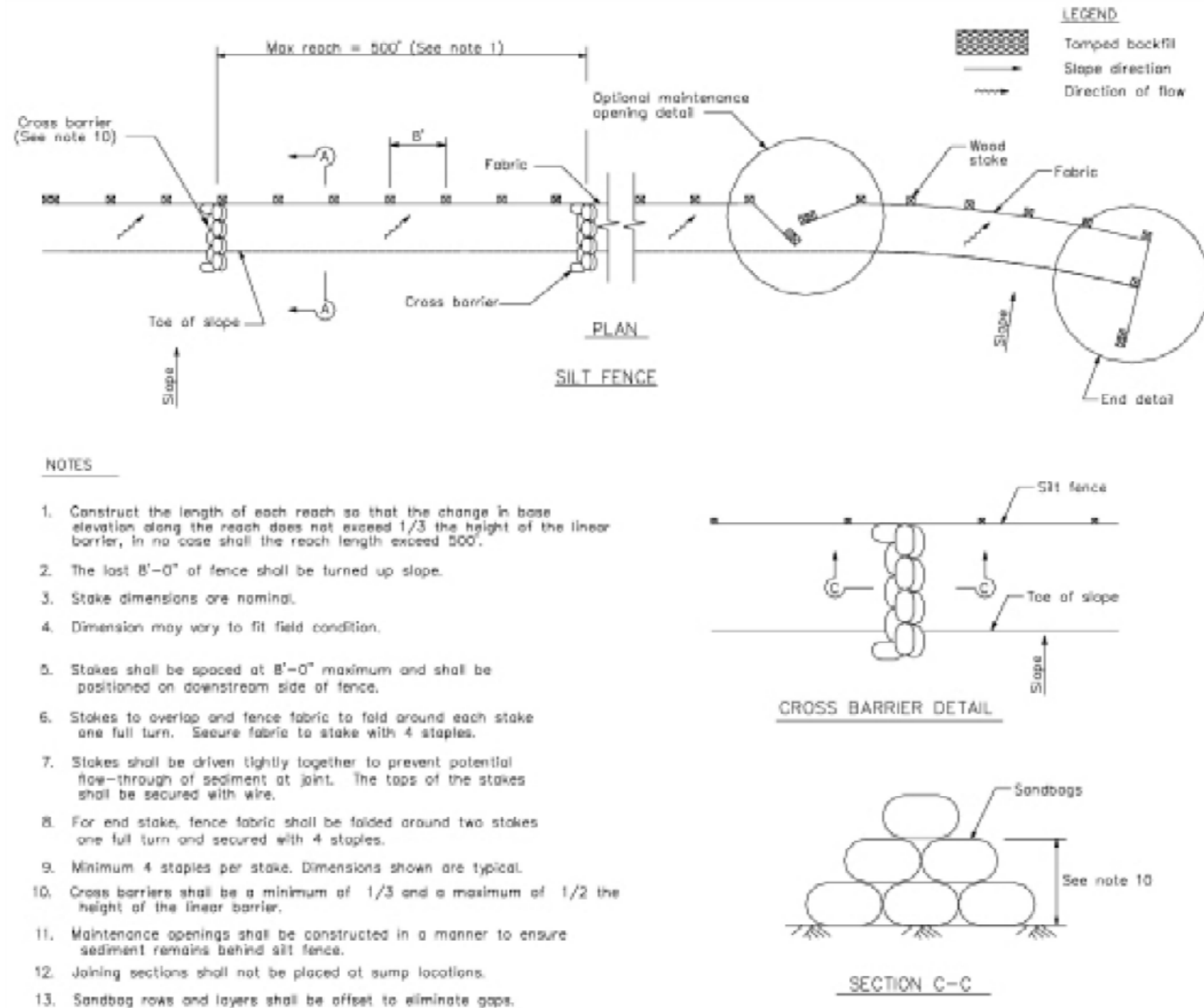


4 Velocity Dissipation Devices
CASQA Detail EC-10



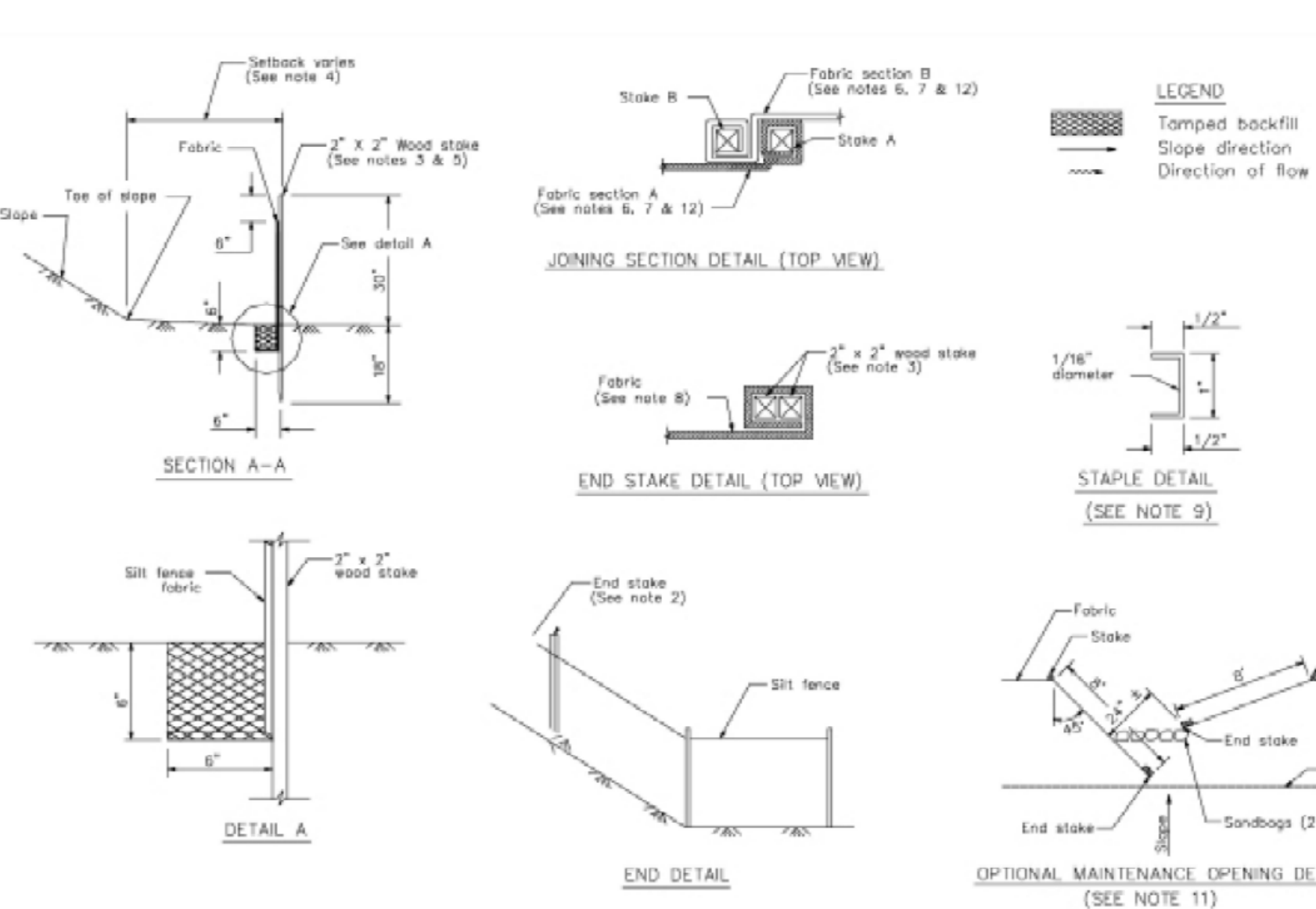
Source for Graphics: California Stormwater BMP Handbook, California Stormwater Quality Association, January 2003. Available from www.cabmphandbooks.com.

1 Silt Fence
CASQA Detail SE-1



- NOTES**
- Construct the length of each reach so that the change in base elevation along the reach does not exceed 1/3 the height of the linear barrier, in no case shall the reach length exceed 500'.
 - The last 8'-0" of fence shall be turned up slope.
 - Stake dimensions are nominal.
 - Dimension may vary to fit field condition.
 - Stakes shall be spaced at 8'-0" maximum and shall be positioned on downstream side of fence.
 - Stakes to overlap and fence fabric to fold around each stake one full turn. Secure fabric to stake with 4 staples.
 - Stakes shall be driven tightly together to prevent potential flow-through of segment at joint. The tops of the stakes shall be secured with wire.
 - For end stake, fence fabric shall be folded around two stakes one full turn and secured with 4 staples.
 - Minimum 4 staples per stake. Dimensions shown are typical.
 - Cross barriers shall be a minimum of 1/3 and a maximum of 1/2 the height of the linear barrier.
 - Maintenance openings shall be constructed in a manner to ensure sediment remains behind silt fence.
 - Joining sections shall not be placed at sump locations.
 - Sandbag rows and layers shall be offset to eliminate gaps.

2 Silt Fence
CASQA Detail SE-1



STANDARD BEST MANAGEMENT PRACTICE NOTES

- Solid and Demolition Waste Management:** Provide designated waste collection areas and containers on site away from streets, gutters, storm drains, and waterways, and arrange for regular disposal. Waste containers must be watertight and covered at all times except when waste is deposited. Refer to Erosion & Sediment Control Field Manual, 4th Edition (page C3) or latest.
- Hazardous Waste Management:** Provide proper handling and disposal of hazardous wastes by a licensed hazardous waste material hauler. Hazardous wastes shall be stored and properly labeled in sealed containers constructed of suitable materials. Refer to Erosion & Sediment Control Field Manual, 4th Edition (pages C-5 to C-6) or latest.
- Spill Prevention and Control:** Provide proper storage areas for liquid and solid materials, including chemicals and hazardous substances, away from streets, gutters, storm drains, and waterways. Spill control materials must be kept on site where readily accessible. Spills must be cleaned up immediately and contaminated soil disposed properly. Refer to Erosion & Sediment Control Field Manual, 4th Edition (pages C-7 to C-8, C-13 to C-14) or latest.
- Vehicle and Construction Equipment Service and Storage:** An area shall be designated for the maintenance, where on-site maintenance is required, and storage of equipment that is protected from stormwater run-on and runoff. Measures shall be provided to capture any waste oils, lubricants, or other potential pollutants and these wastes shall be properly disposed of off site. Fueling and major maintenance/repair, and washing shall be conducted off-site whenever feasible. Refer to Erosion & Sediment Control Field Manual, 4th Edition (page C9) or latest.
- Material Delivery, Handling and Storage:** In general, materials should not be stockpiled on site. Where temporary stockpiles are necessary and approved by the County, they shall be covered with secured plastic sheeting or tarp and located in designated areas near construction entrances and away from drainage paths and waterways. Barriers shall be provided around storage areas where materials are potentially in contact with runoff. Refer to Erosion & Sediment Control Field Manual, 4th Edition (pages C-11 to C-12) or latest.
- Handling and Disposal of Concrete and Cement:** When concrete trucks and equipment are washed on-site, concrete wastewater shall be contained in designated containers or in a temporary lined and watertight pit where wasted concrete can harden for later removal. If possible have concrete contractor remove concrete wash water from site. In no case shall fresh concrete be washed into the road right-of-way. Refer to Erosion & Sediment Control Field Manual, 4th Edition (pages C-15 to C-16) or latest.
- Pavement Construction Management:** Prevent or reduce the discharge of pollutants from paving operations, using measures to prevent run-on and runoff pollution and properly disposing of wastes. Avoid paving in the wet season and reschedule paving when rain is in the forecast. Residue from saw-cutting shall be vacuumed for proper disposal. Refer to Erosion & Sediment Control Field Manual, 4th Edition (pages C-17 to C-18) or latest.
- Contaminated Soil and Water Management:** Inspections to identify contaminated soils should occur prior to construction and at regular intervals during construction. Remediating contaminated soil should occur promptly after identification and be specific to the contaminant identified, which may include hazardous waste removal. Refer to Erosion & Sediment Control Field Manual, 4th Edition (pages C-19 to C-20) or latest.
- Sanitary/Septic Water Management:** Temporary sanitary facilities should be located away from drainage paths, waterways, and traffic areas. Only licensed sanitary and septic waste haulers should be used. Secondary containment should be provided for all sanitary facilities. Refer to Erosion & Sediment Control Field Manual, 4th Edition (page C-21) or latest.
- Inspection & Maintenance:** Areas of material and equipment storage sites and temporary sanitary facilities must be inspected weekly. Problem areas shall be identified and appropriate additional and/or alternative control measures implemented immediately, within 24 hours of the problem being identified.

STANDARD EROSION CONTROL NOTES

- Sediment Control Management:**
 - Tracking Prevention & Clean Up:** Activities shall be organized and measures taken as needed to prevent or minimize tracking of soil onto the public street system. A gravel or proprietary device construction entrance/exit is required for all sites. Clean up of tracked material shall be provided by means of a street sweeper prior to an approaching rain event, or at least once at the end of each workday that material is tracked, or more frequently as determined by the County Inspector. Refer to Erosion & Sediment Control Field Manual, 4th Edition (pages B-31 to B-33) or latest.
 - Storm Drain Inlet and Catch Basin Inlet Protection:** All inlets within the vicinity of the project and within the project limits shall be protected with gravel bags placed around inlets or other inlet protection. At locations where exposed soils are present, staked fiber rolls or staked silt fences can be used. Inlet filters are not allowed due to clogging and subsequent flooding. Refer to Erosion & Sediment Control Field Manual, 4th Edition (pages B-49 to B-51) or latest.
 - Storm Water Runoff:** No storm water runoff shall be allowed to drain in to the existing and/or proposed underground storm drain system or other above ground watercourses until appropriate erosion control measures are fully installed.
 - Dust Control:** The contractor shall provide dust control in graded areas as required by providing wet suppression or chemical stabilization of exposed soils, providing for rapid clean up of sediments deposited on paved roads, furnishing construction road entrances and vehicle wash down areas, and limiting the amount of areas disturbed by clearing and earth moving operations by scheduling these activities in phases.
 - Stockpiling:** Excavated soils shall not be placed in streets or on paved areas. Borrow and temporary stockpiles shall be protected with appropriate erosion control measures (tarps, straw bales, silt fences, etc.) to ensure silt does not leave the site or enter the storm drain system or neighboring watercourse.
- Erosion Control:** During the rainy season, all disturbed areas must include an effective combination of erosion and sediment control. It is required that temporary erosion control measures are applied to all disturbed soil areas prior to a rain event. During the non-rainy season, erosion control measures must be applied sufficient to control wind erosion at the site.
- Inspection & Maintenance:** Disturbed areas of the Project's site, locations where vehicles enter or exit the site, and all erosion and sediment controls that are identified as part of the Erosion Control Plans must be inspected by the Contractor before, during, and after storm events, and at least weekly during seasonal wet periods. Problem areas shall be identified and appropriate additional and/or alternative control measures implemented immediately, within 24 hours of the problem being identified.
- Project Completion:** Prior to project completion and signoff by the County Inspector, all disturbed areas shall be reseeded, planted, or landscaped to minimize the potential for erosion on the subject site.
- It shall be the Owner's/Contractor's responsibility to maintain control of the entire construction operation and to keep the entire site in compliance with the erosion control plan.
- Erosion and sediment control best management practices shall be operable year round or until vegetation is fully established on landscaped surfaces.

Project Information



BY: ROBERT E. LASHELLS JR. DATE: 08-20-2020
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MUDD CHEMISTRY DEMOLITION FOR STANFORD UNIVERSITY

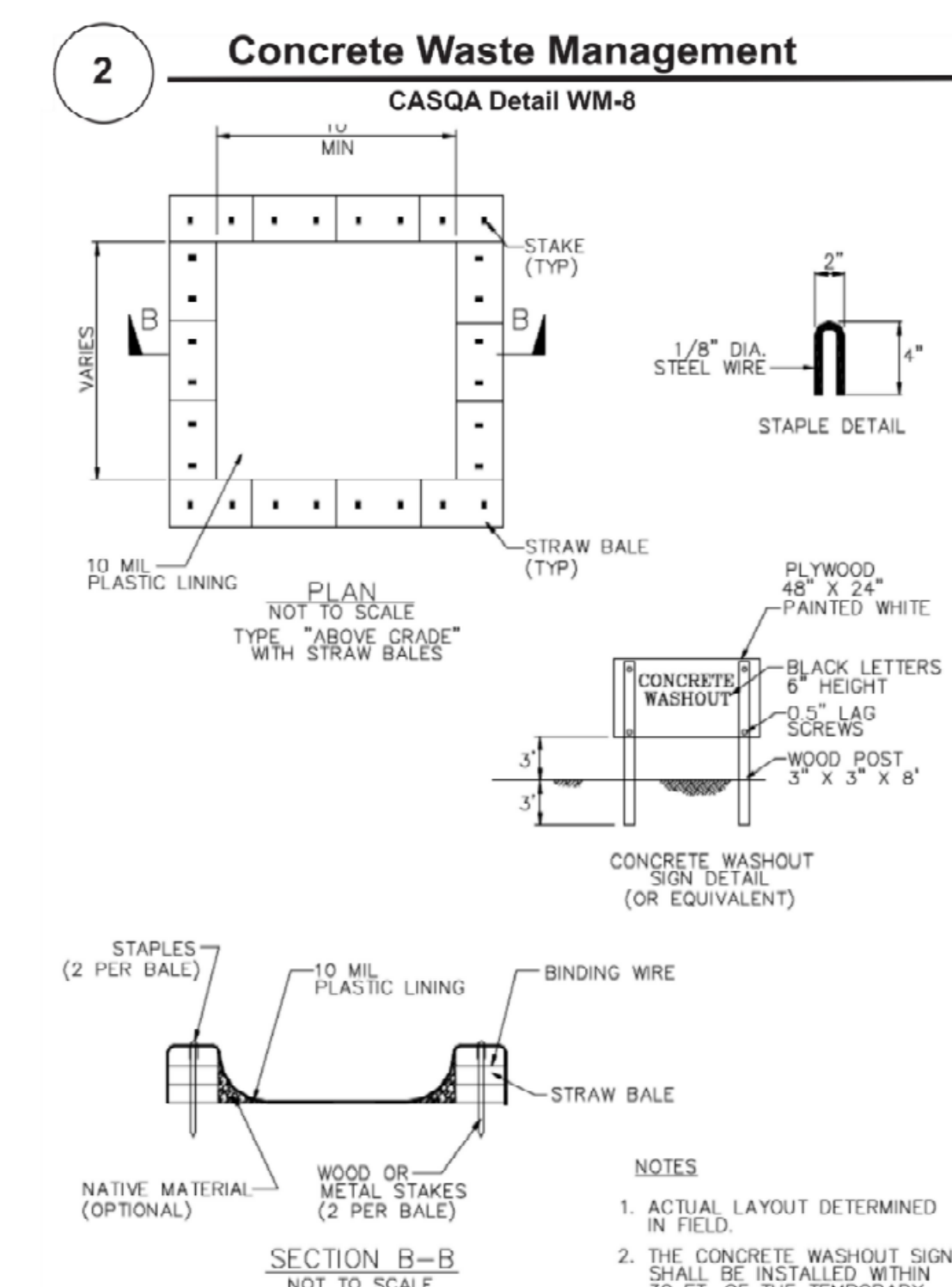
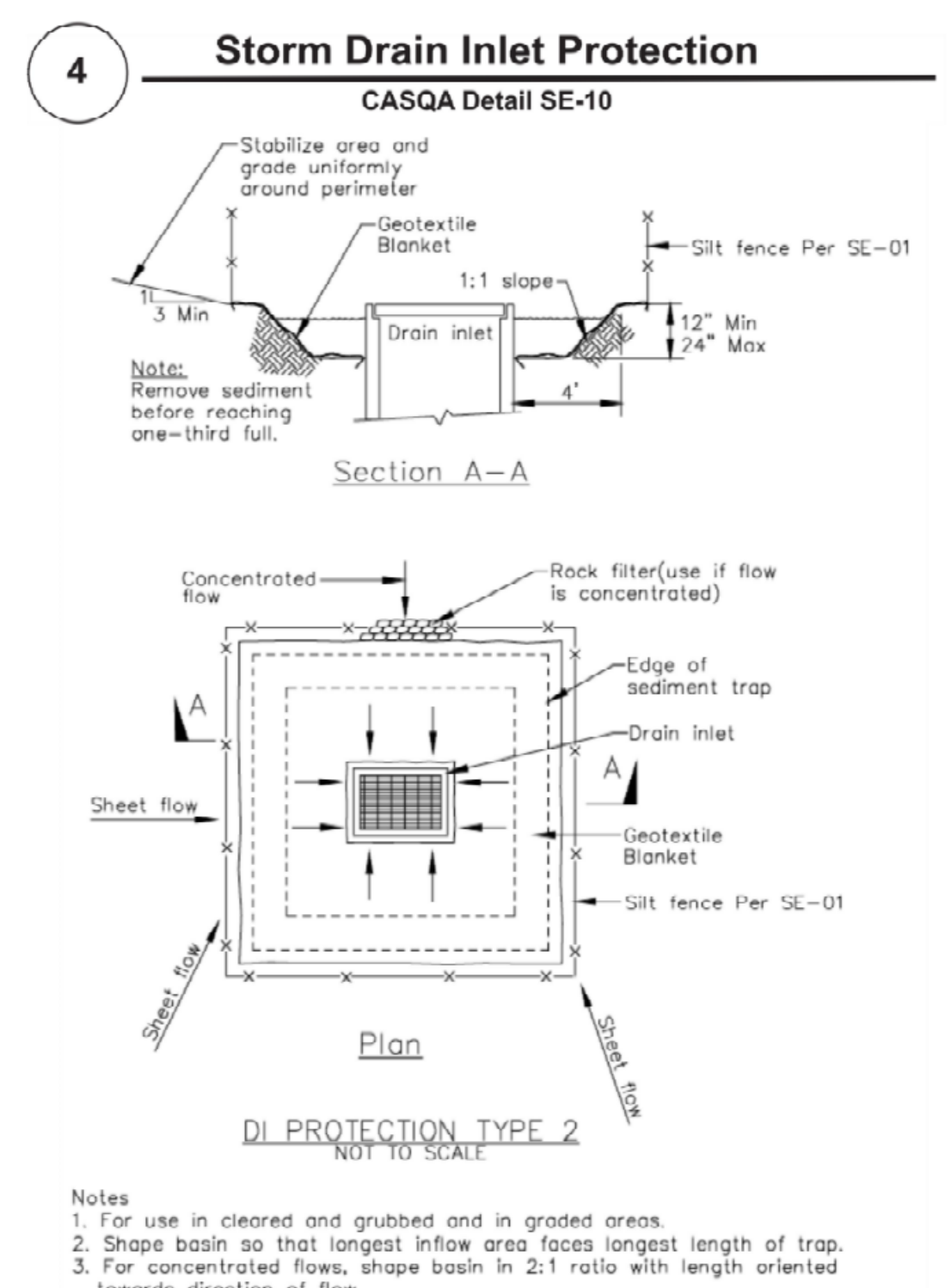
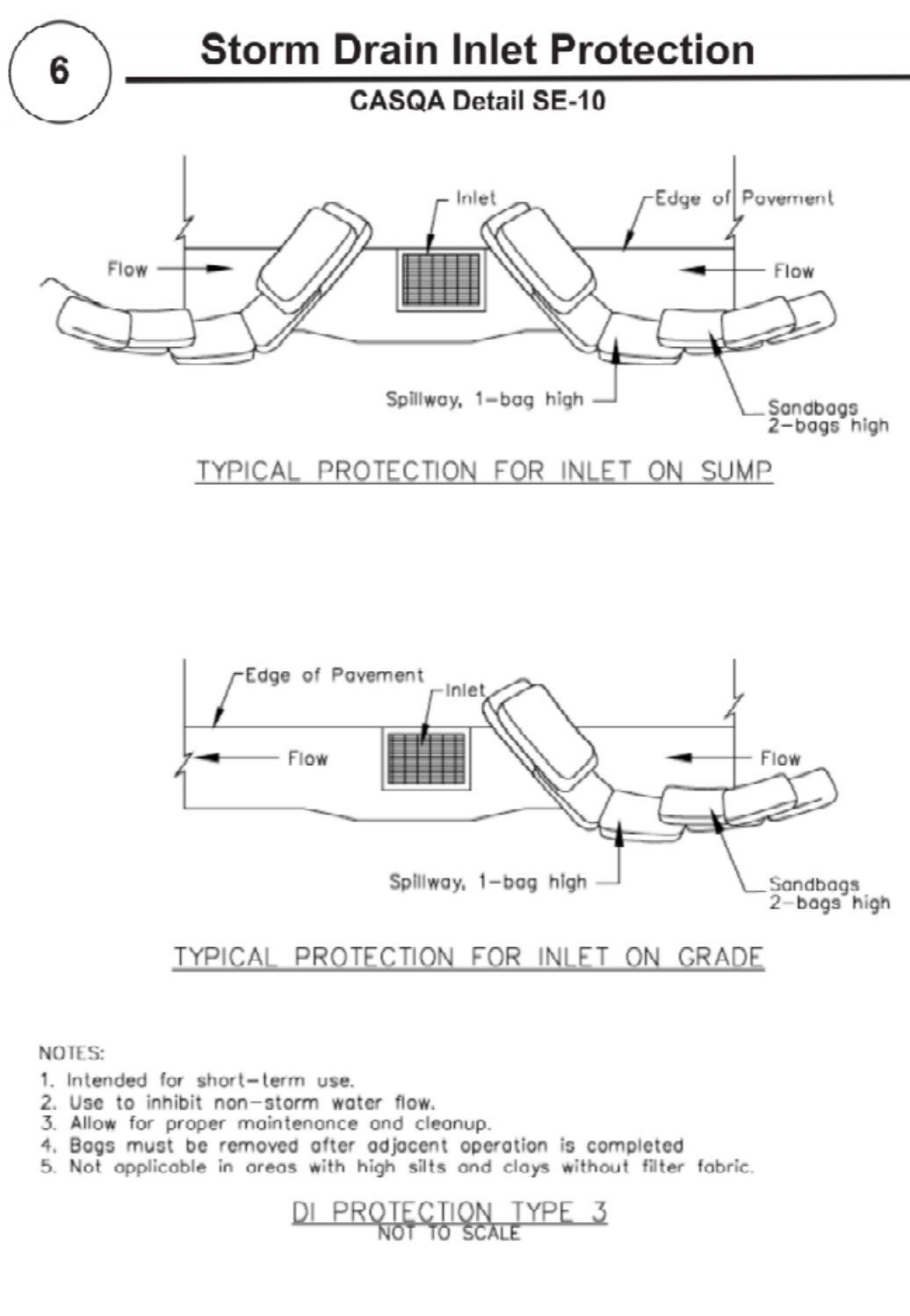
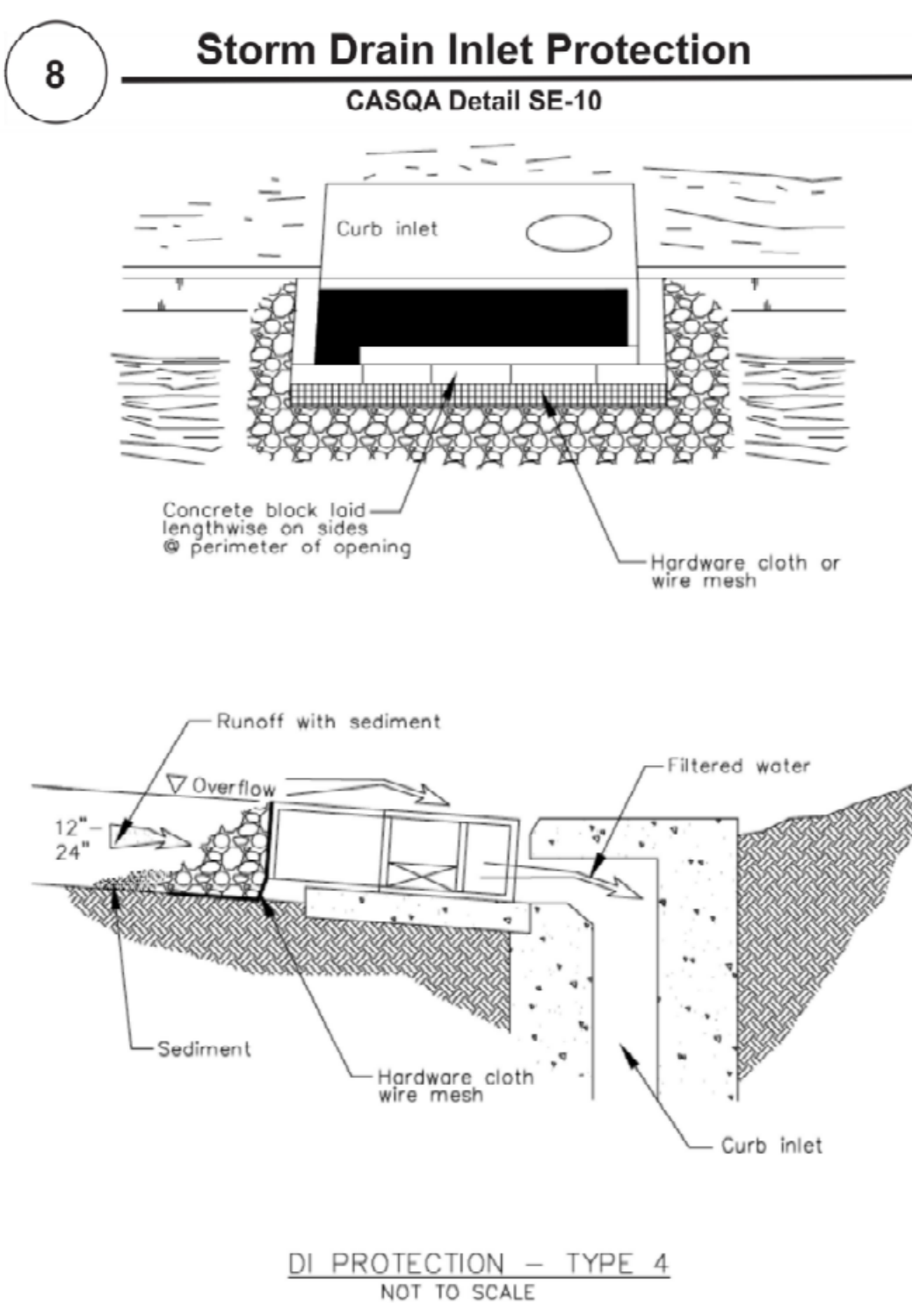
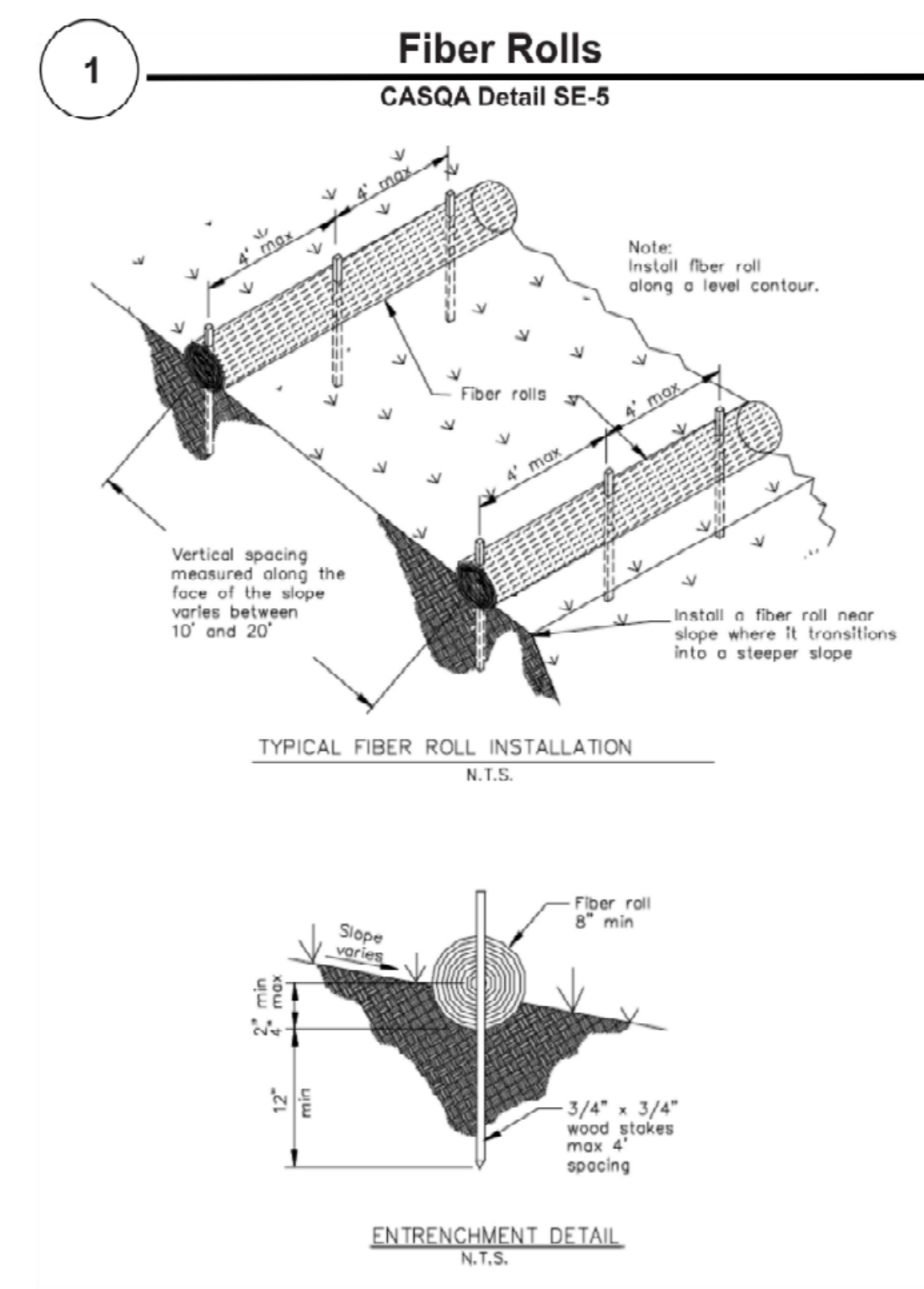
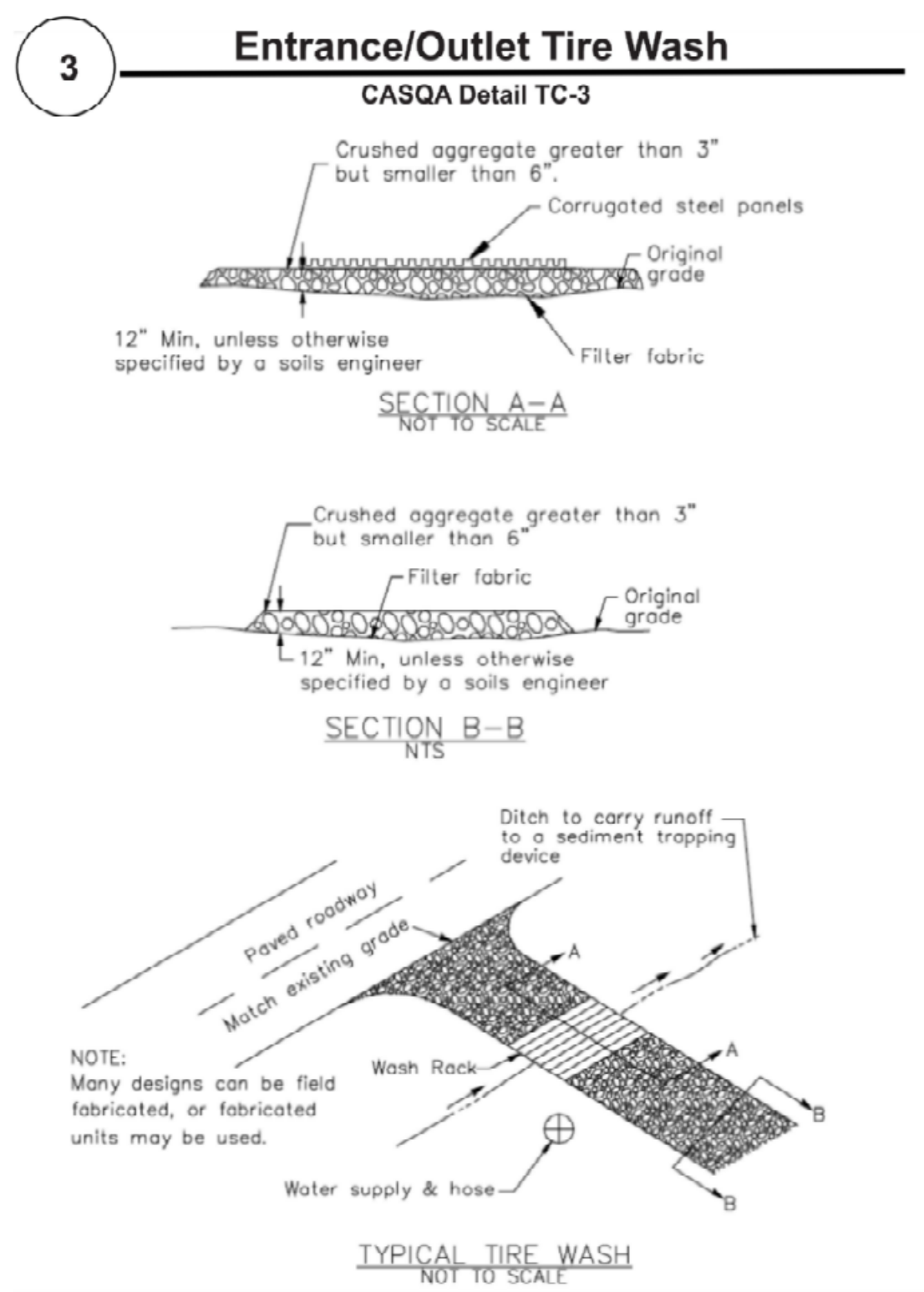
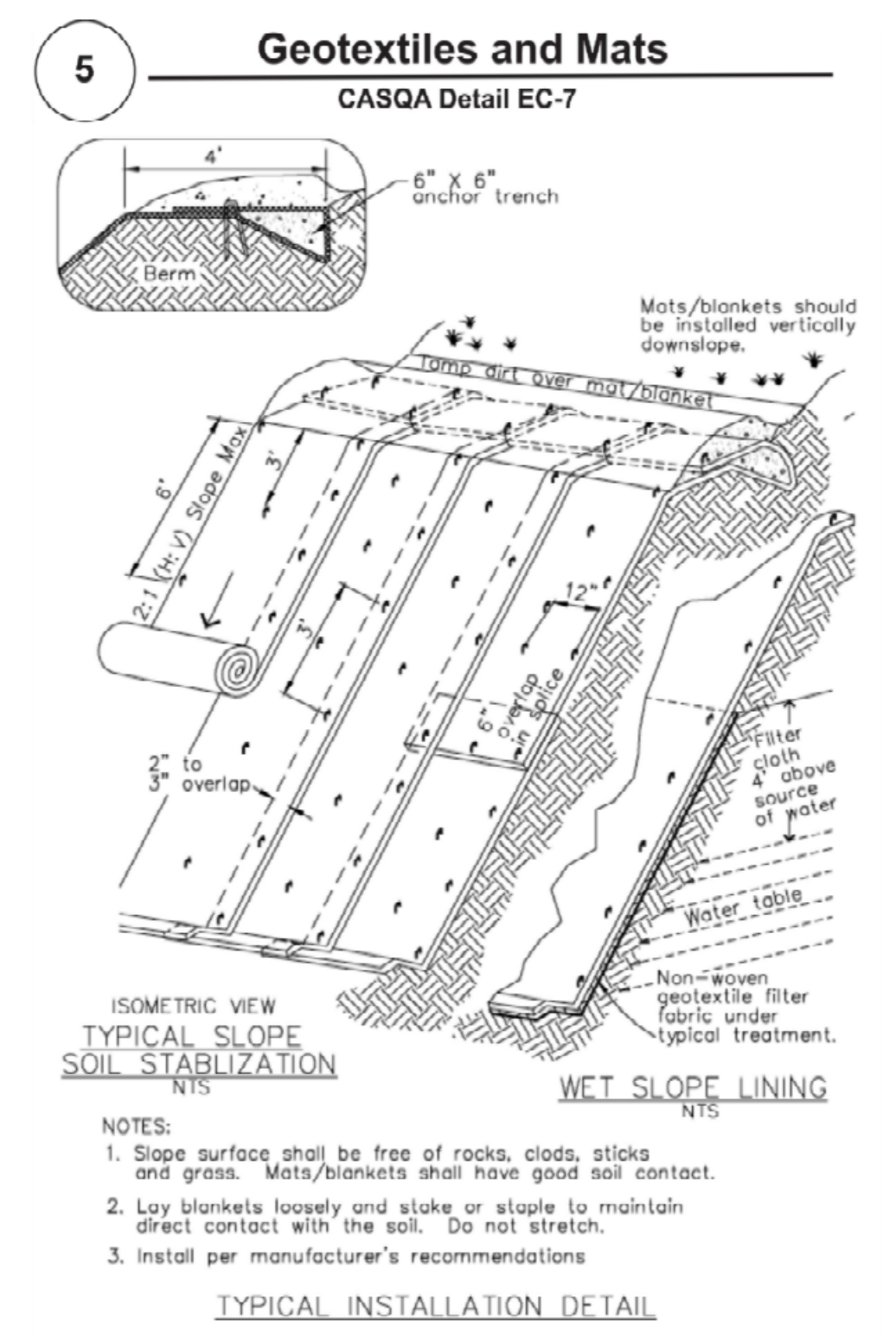
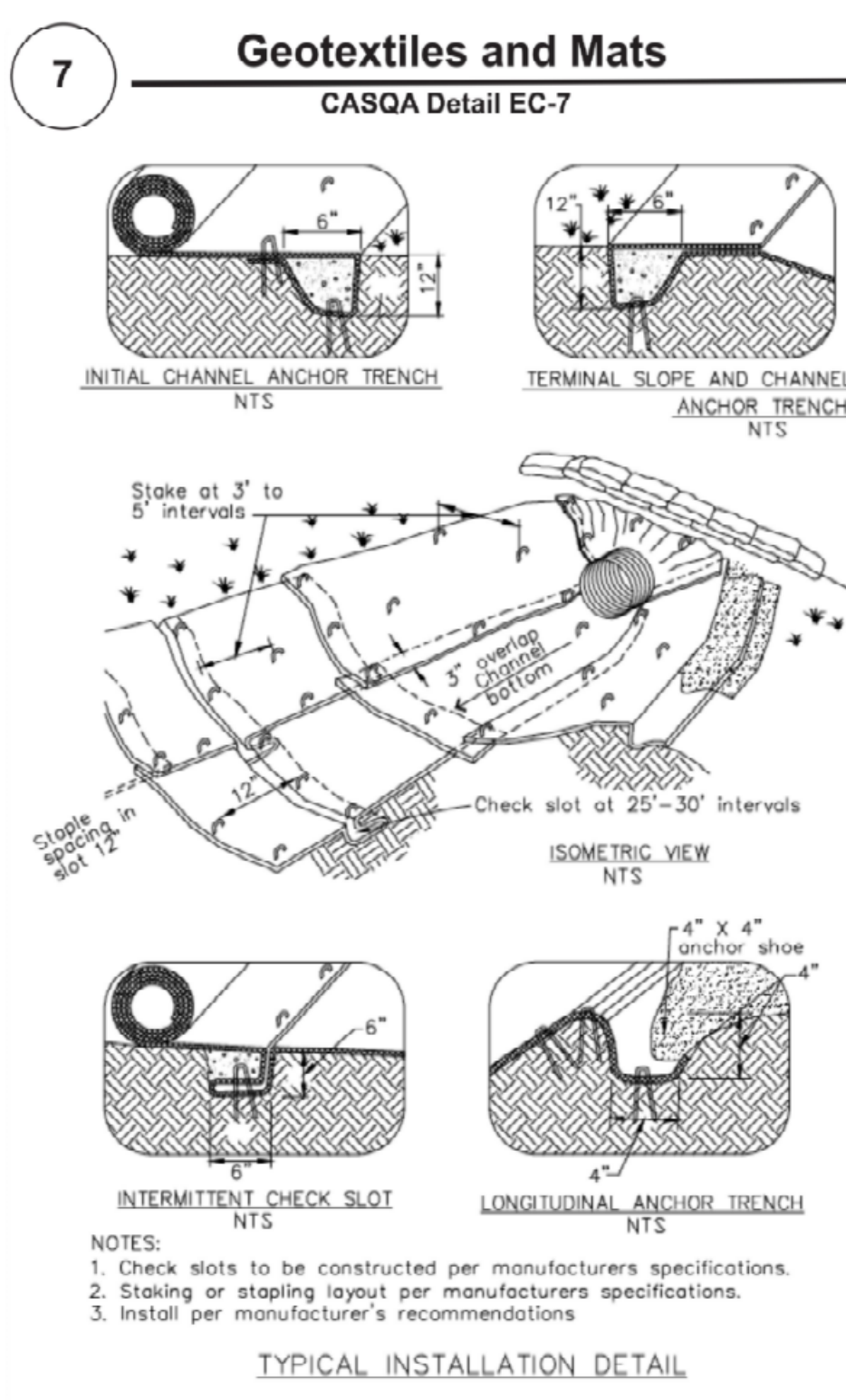
BEST MANAGEMENT PRACTICES & EROSION CONTROL DETAILS

Revision 1	APN 142-05-024	Sheet
Revision 2	Co. File XXXXX-XXXX	C5.0

Best Management Practices and Erosion Control Details Sheet 1
County of Santa Clara



BMP-1



Project Information

Best Management Practices and Erosion Control Details Sheet 2

County of Santa Clara



BMP-2

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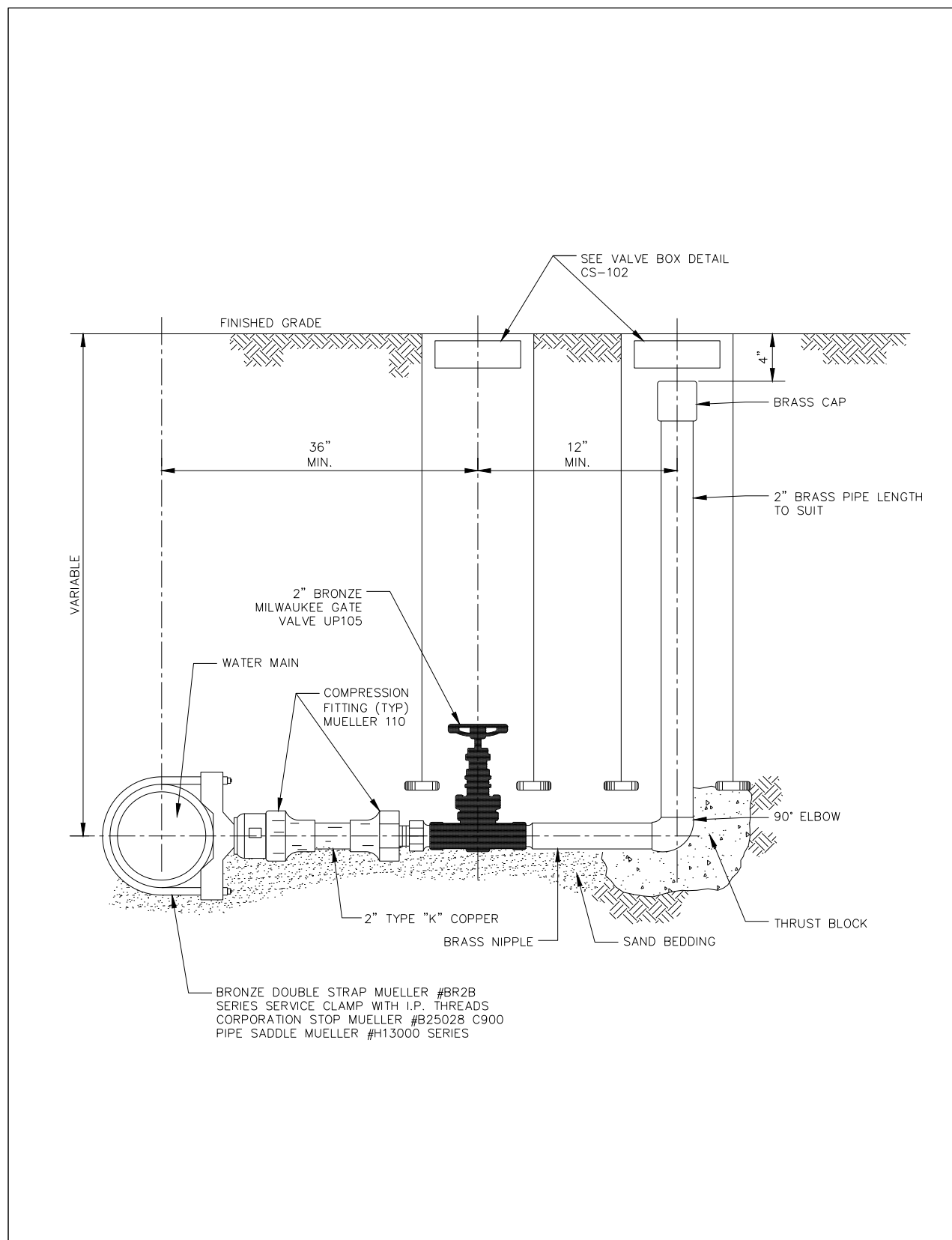
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MUDD CHEMISTRY DEMOLITION
FOR STANFORD UNIVERSITY

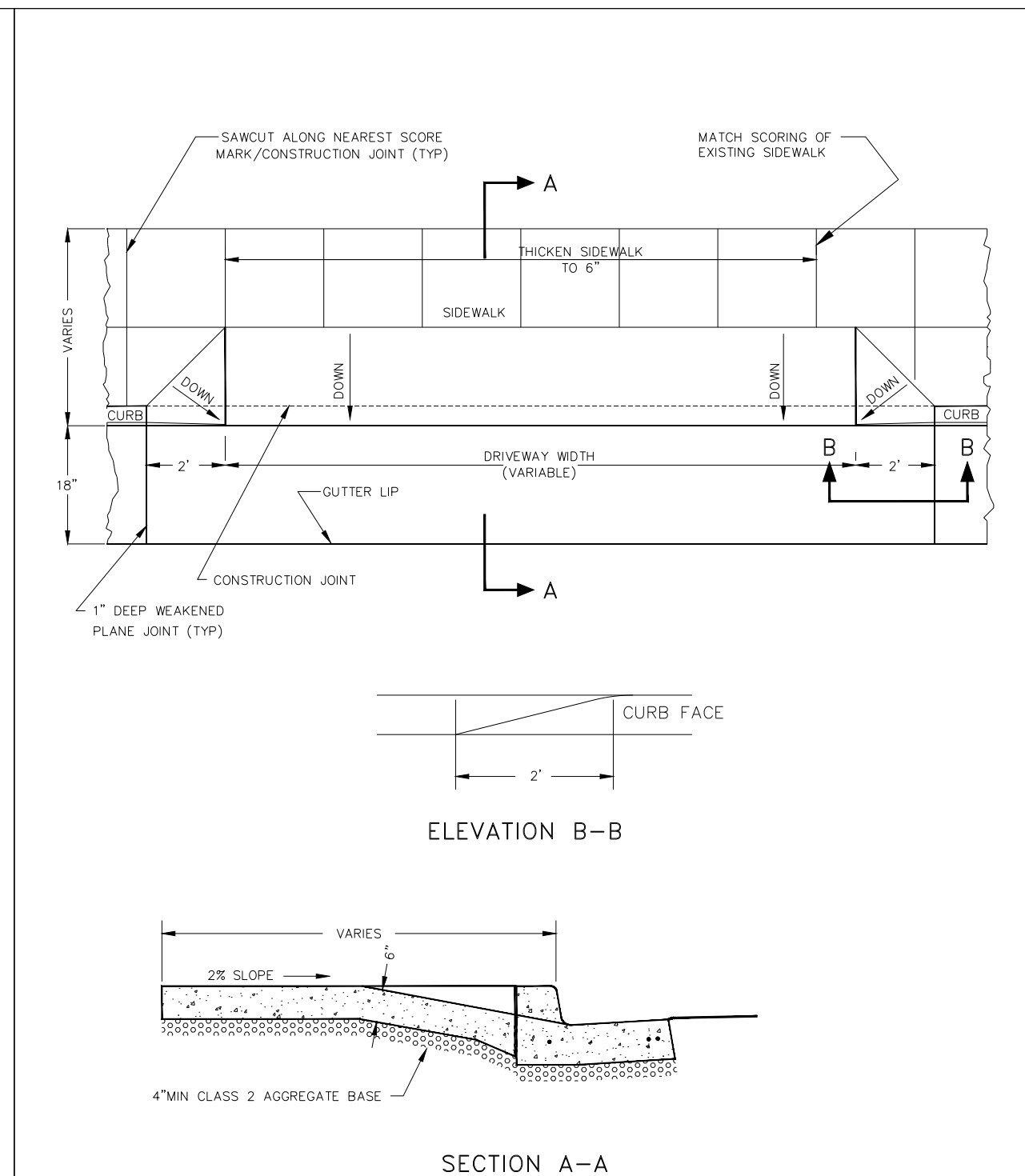
BEST MANAGEMENT PRACTICES
& EROSION CONTROL DETAILS

Revision 1	APN 142-05-024	Sheet
Revision 2	Co. File XXXX-XXXX	C5.1

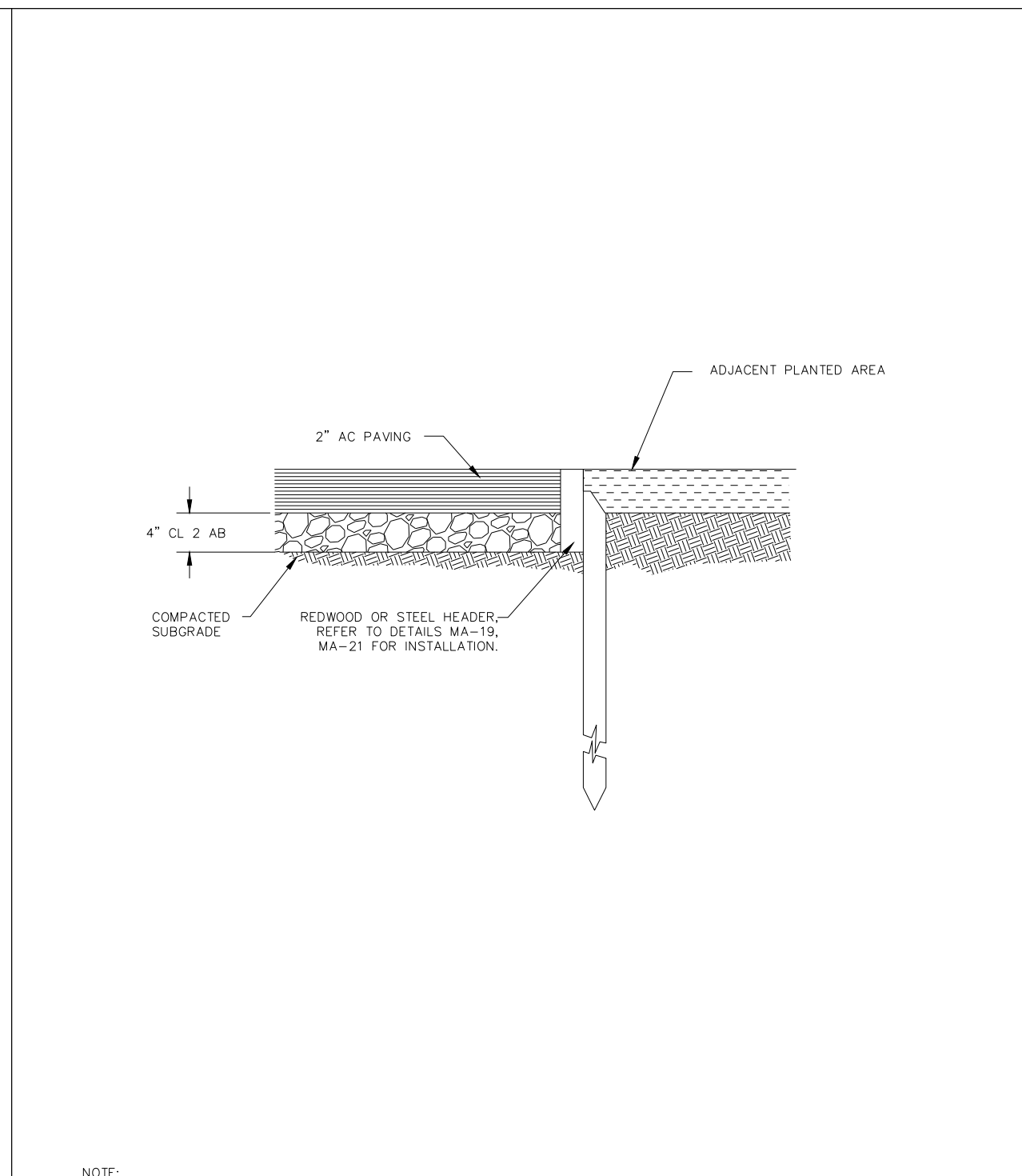
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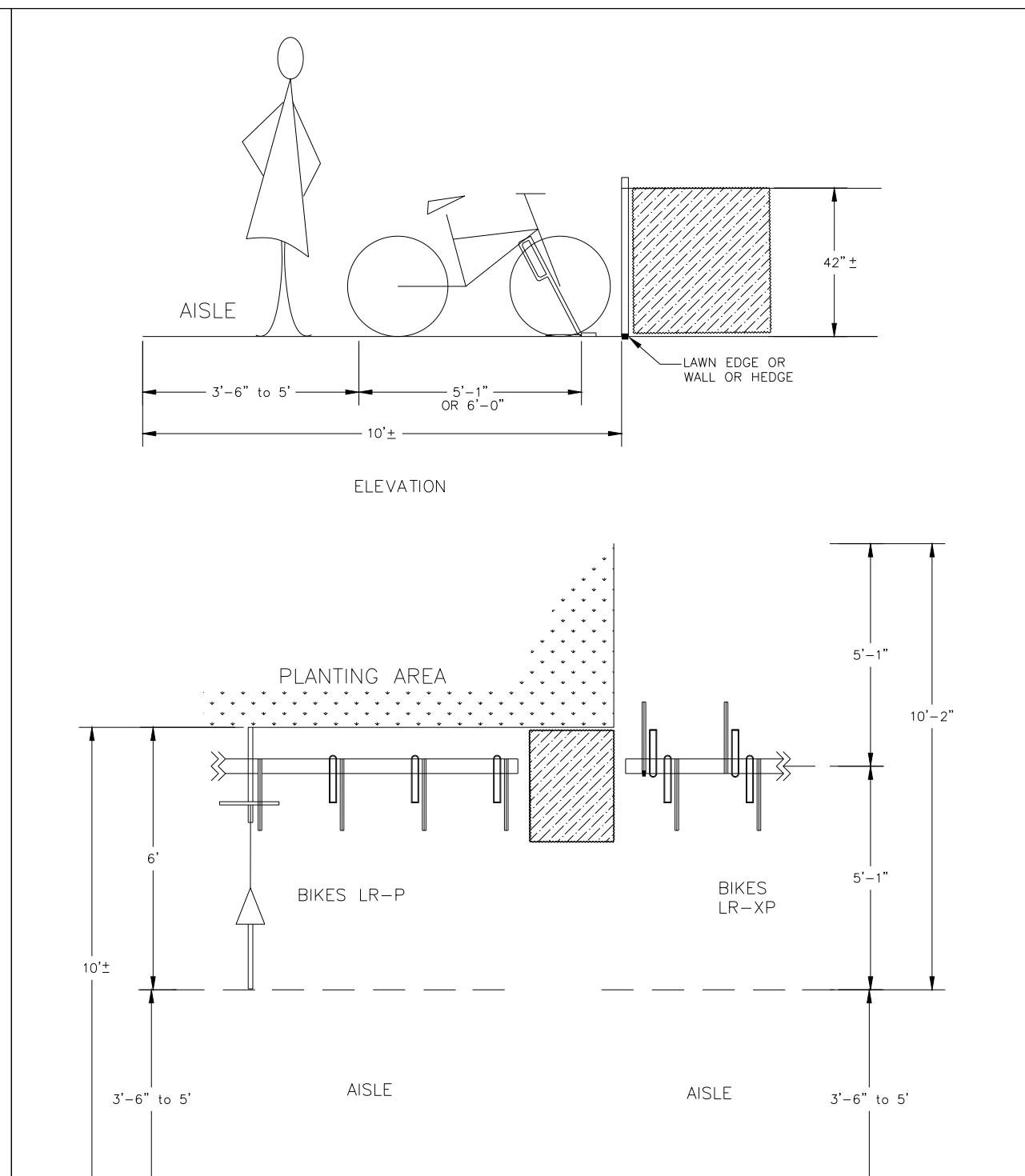
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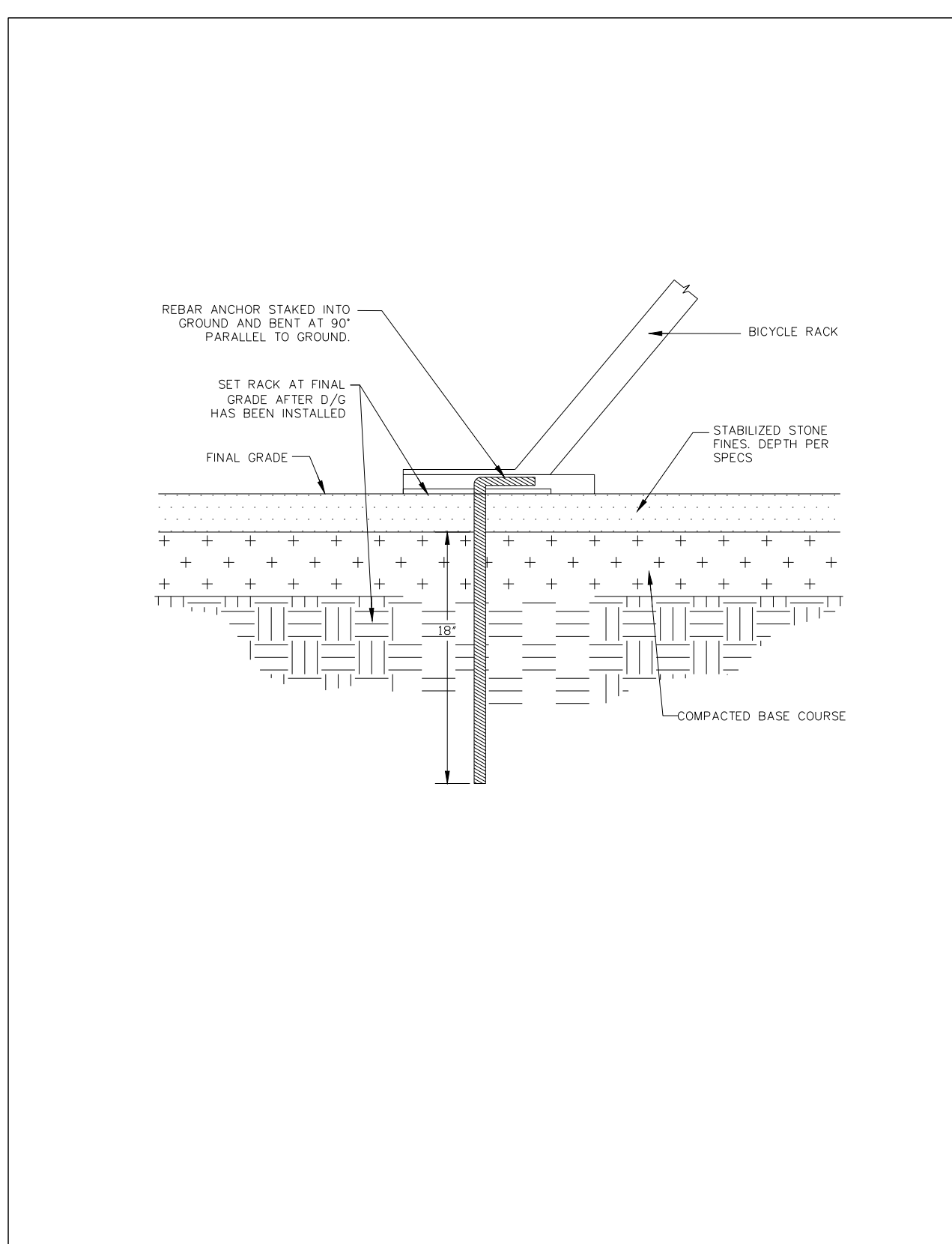
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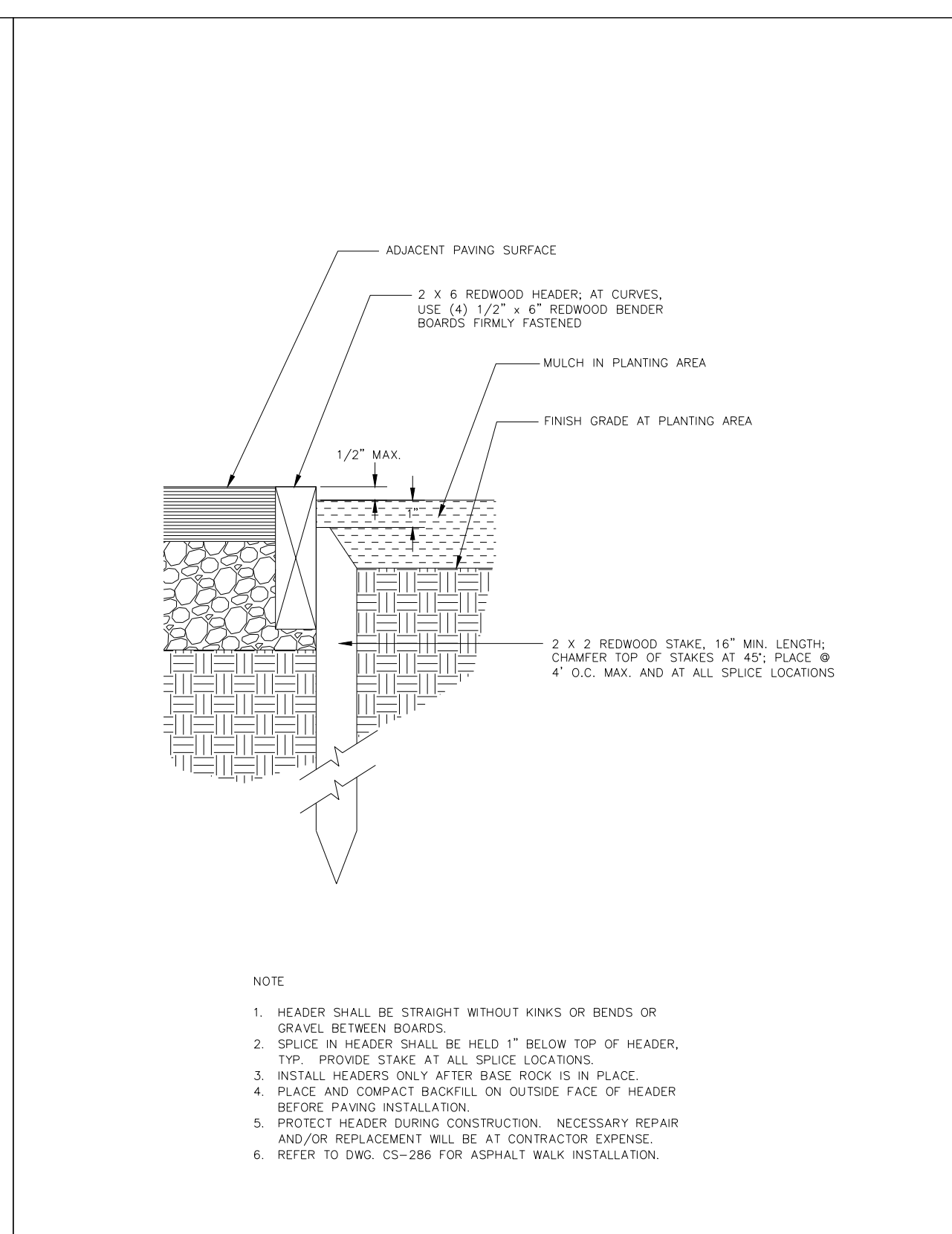
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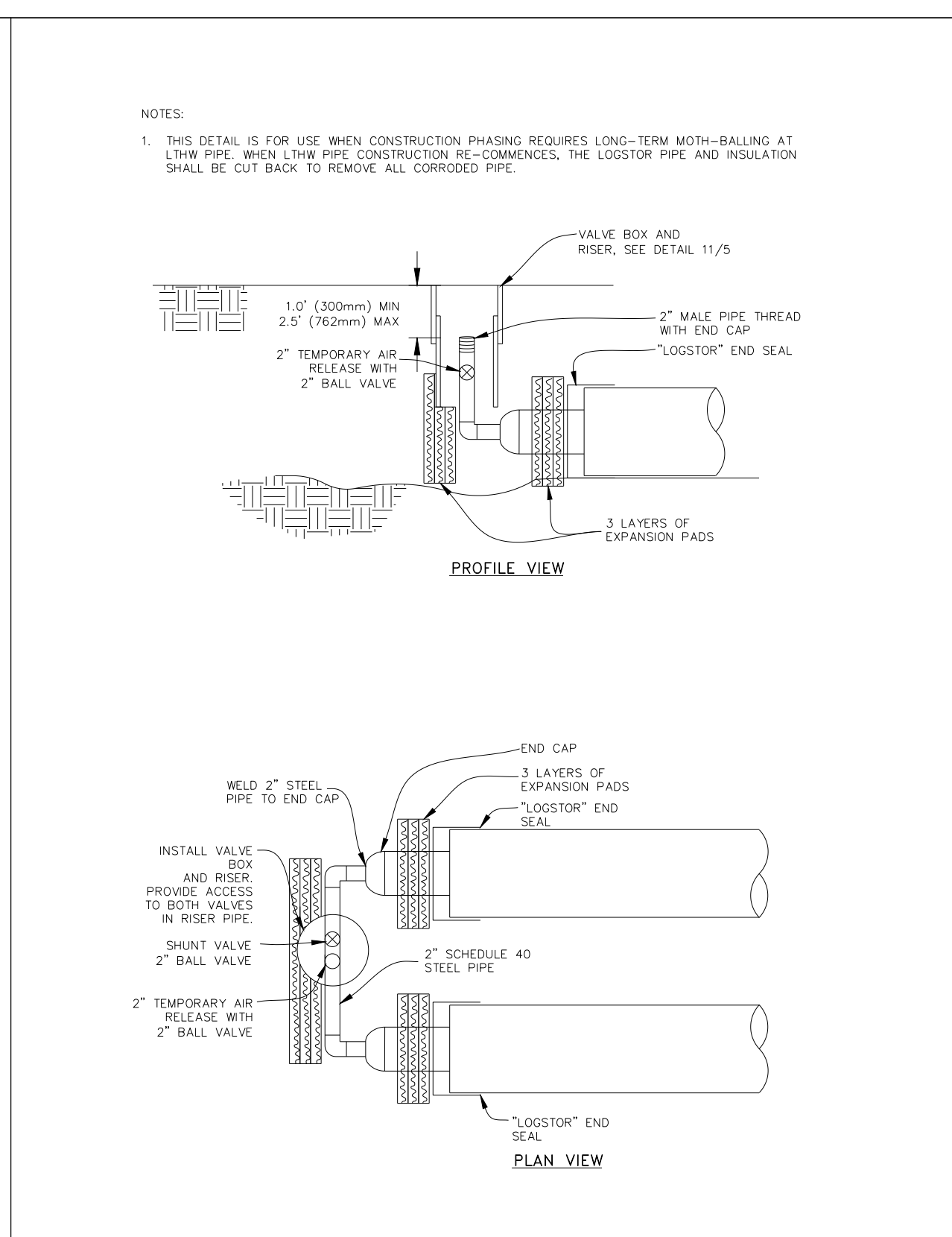
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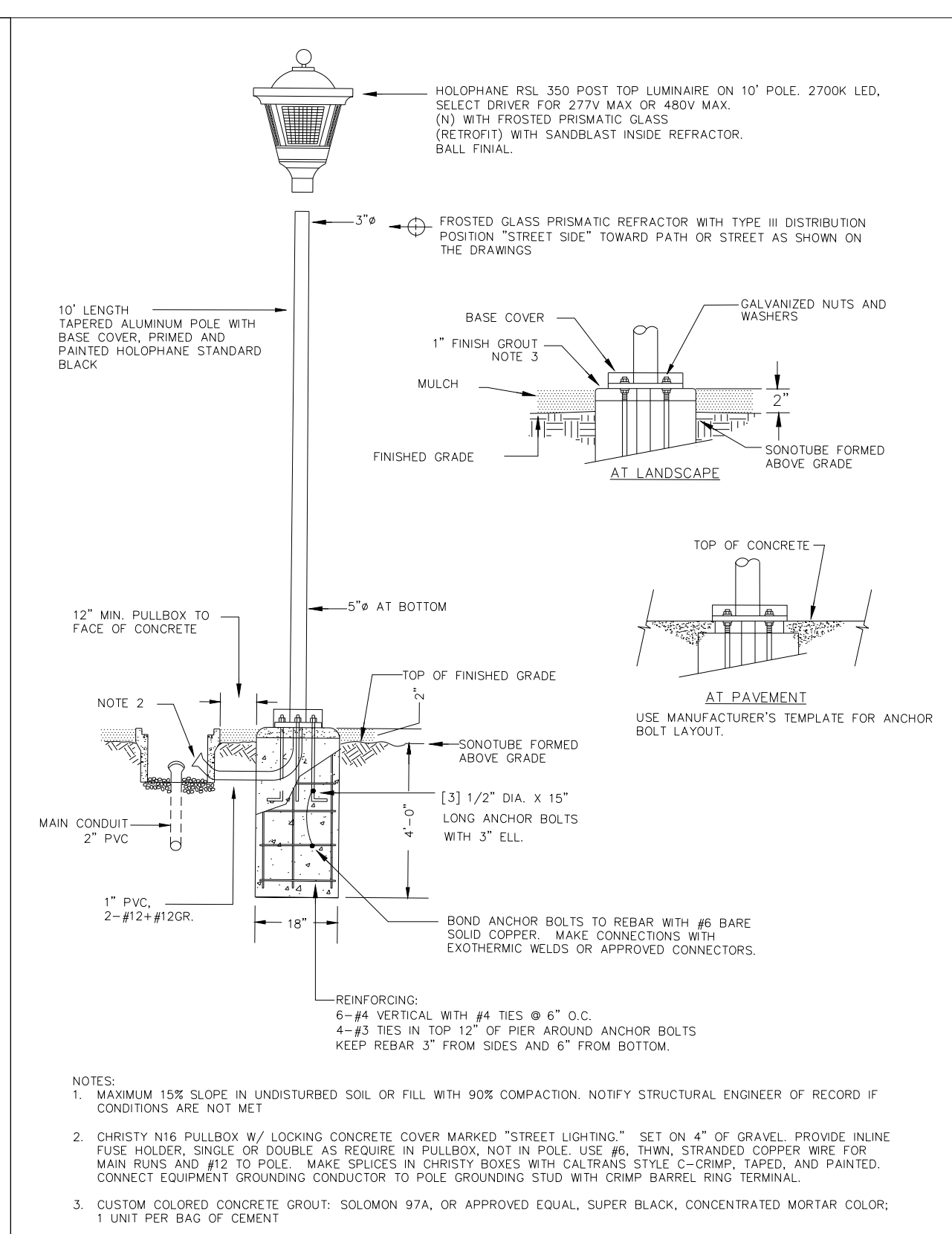
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STANFORD UNIVERSITY FACILITY OPERATIONS
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 DWG. MA-21



STANFORD UNIVERSITY FACILITY OPERATIONS
 Drawing Title: LTHW TEMPORARY END OF LINE SHUNT AND AIR RELEASE DETAIL
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 DWG. MS-77



STANFORD UNIVERSITY FACILITY OPERATIONS
 Drawing Title: LANTERN STYLE PATH LIGHT, HOLOPHANE RSL 350, LED
 Scale: NTS Check: DREW B. Rev. By: Rev. Date: 2/24/2020
 DWG. ES-02-01

REGISTERED PROFESSIONAL ENGINEER
ROBERT E. LASHHELLS JR.
 No. 56684
 Exp. 06-30-2021
 CIVIL
 STATE OF CALIFORNIA

BY: **ROBERT E. LASHHELLS JR.** DATE: 08-20-2020
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MUDD CHEMISTRY DEMOLITION
 FOR STANFORD UNIVERSITY

STANDARD DETAILS

Revision 1	APN 142-05-024	Sheet
Revision 2	Co. File XXXXX-XXXX	C5.2