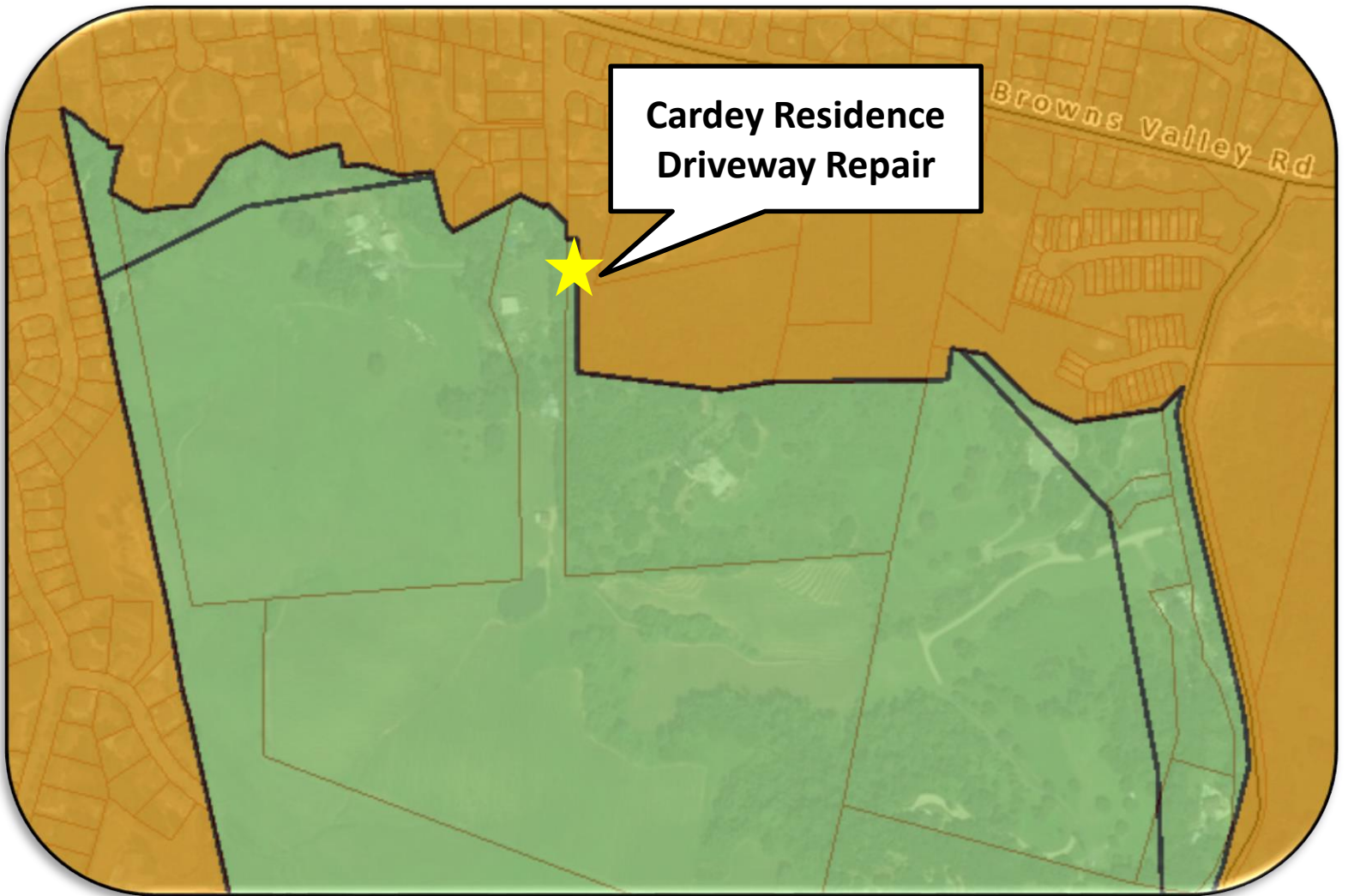


“D”

Graphics

Cardey Residence Driveway Repair Use Permit Exception to
the Conservation Regulations, #P18-00116-UP &
Request for Exception to Road and Street Standards
Planning Commission Hearing June 20, 2018

NAPA COUNTY LAND USE PLAN 2008 – 2030



LEGEND



URBANIZED OR NON-AGRICULTURAL

- Study Area
- Cities
- Urban Residential*
- Rural Residential*
- Industrial
- Public-Institutional
- Napa Pipe Mixed Use

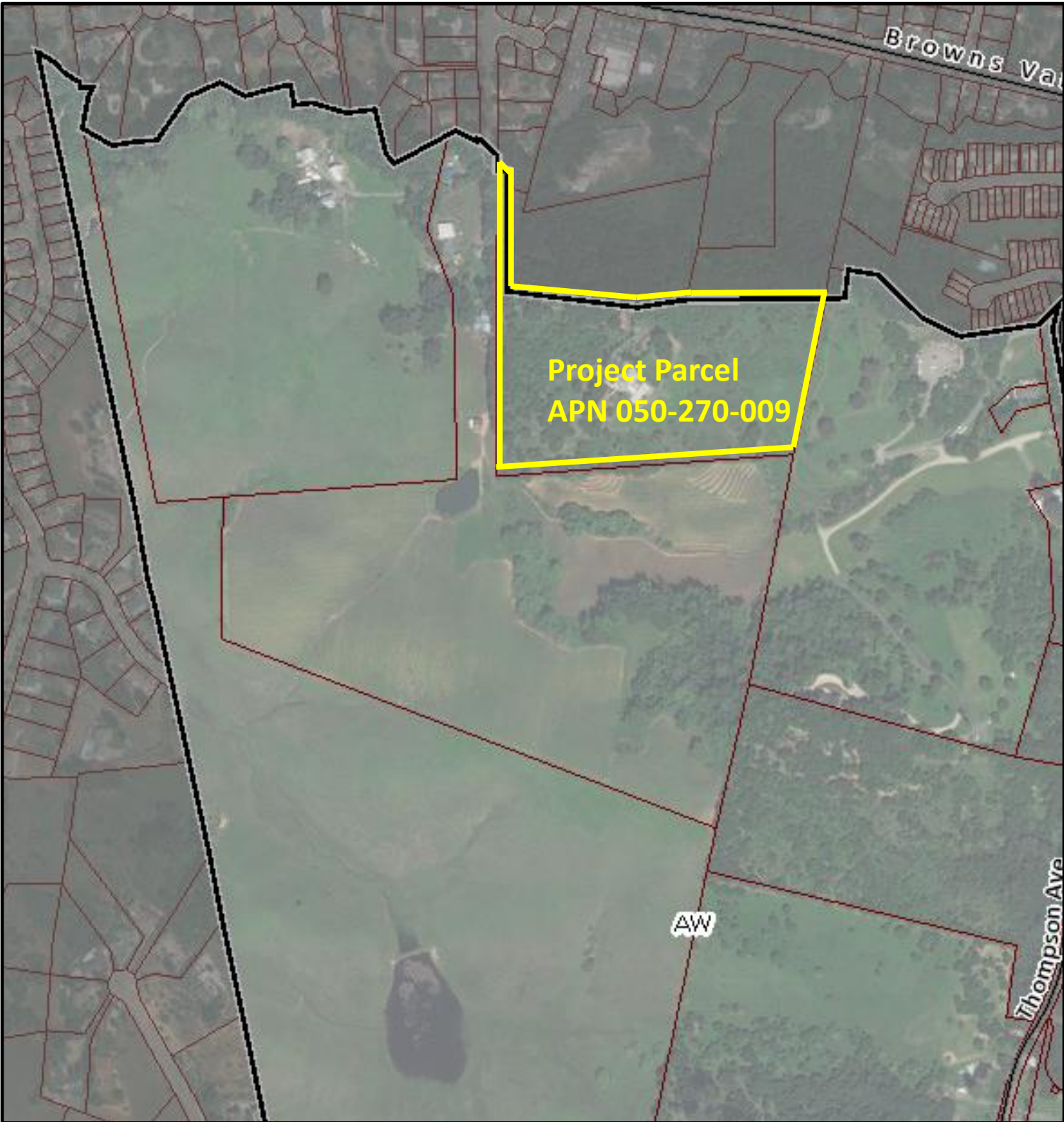
OPEN SPACE

- Agriculture, Watershed & Open Space
- Agricultural Resource

TRANSPORTATION

- Mineral Resource
- Limited Access Highway
- American Canyon ULL
- City of Napa RUL
- Landfill - General Plan
- Road
- Airport
- Railroad
- Airport Clear Zone

* See Action Item AG/LU-114.1 regarding agriculturally zoned areas within these land use designations

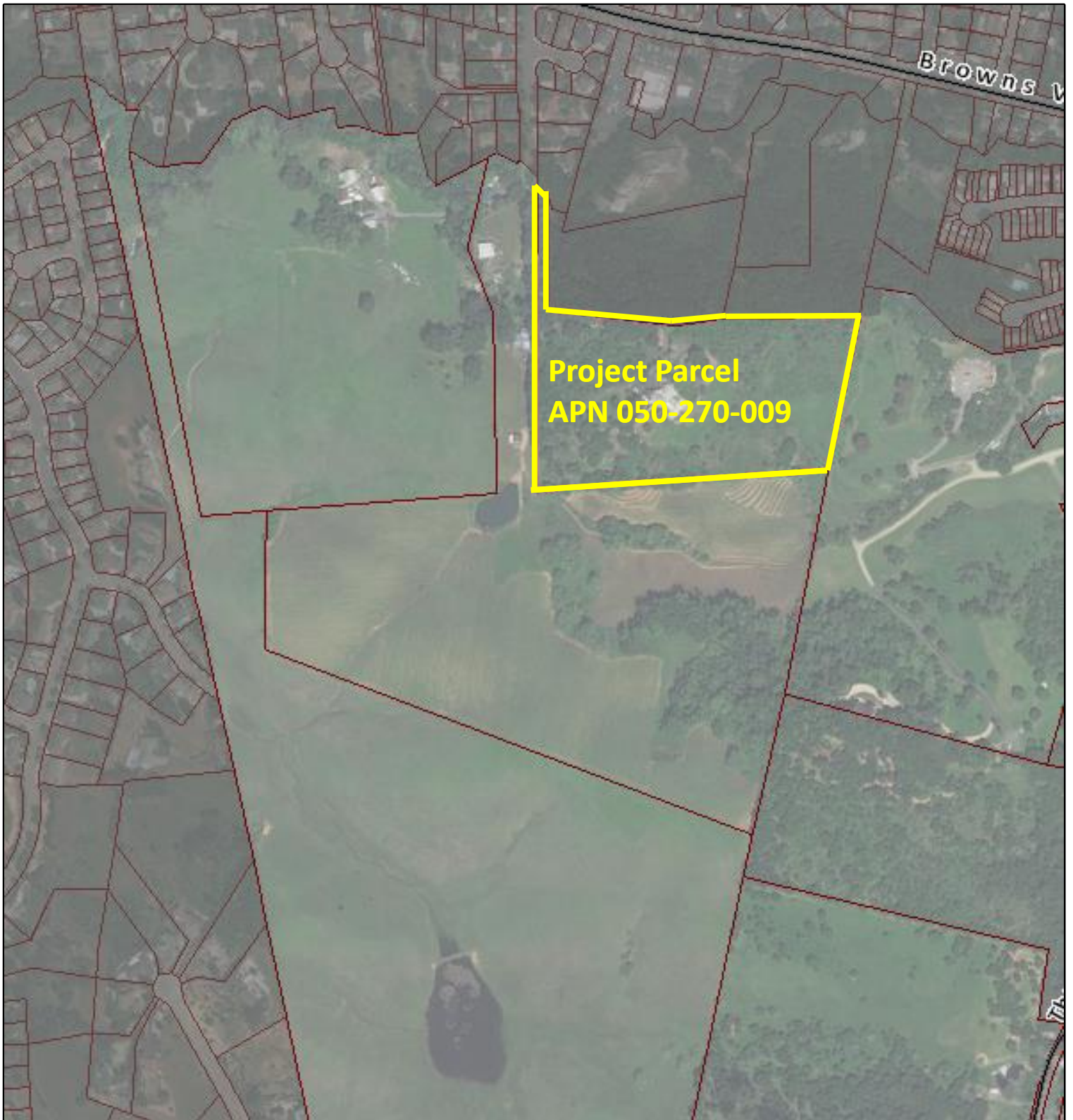


LEGEND

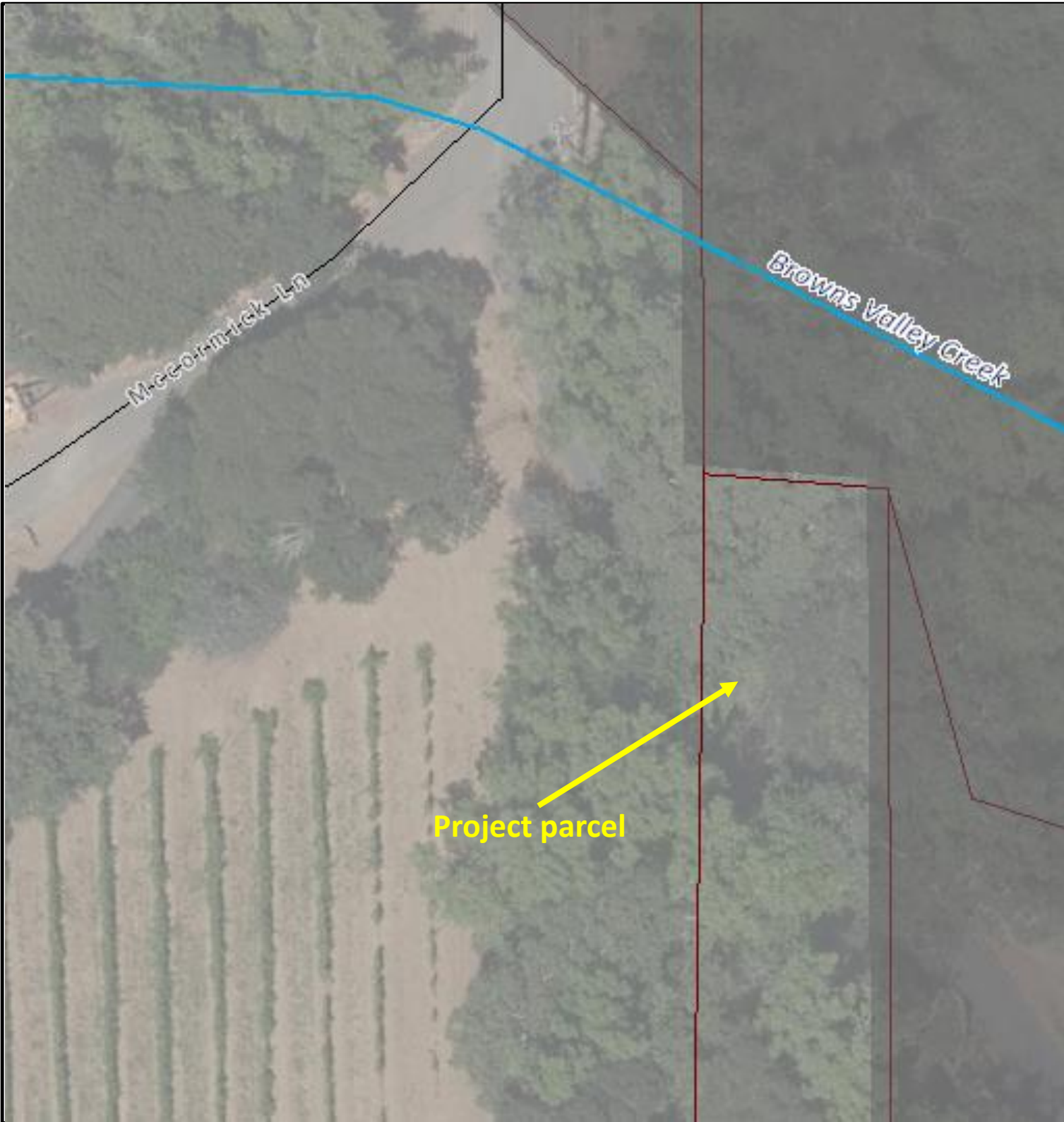
- Zoning
- Parcels



ZONING MAP



Ariel



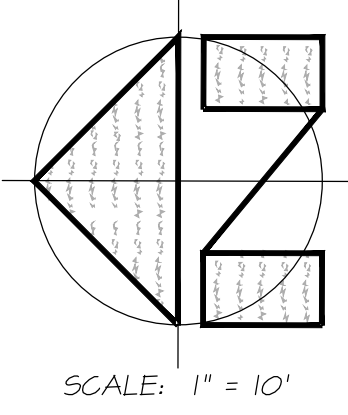
Project parcel



Zoomed Aerial



Existing Conditions



SCALE: 1" = 10'

APN 050-292-025
APPROXIMATE FLOWLINE OF BROWNS VALLEY CREEK

FOR SECTION A-A, SEE DETAIL BELOW

APN 050-270-010

APPROXIMATE LOCATION OF NON-EXCLUSIVE INGRESS/EGRESS EASEMENT PER 492 O.R. 435

GRADE AREA TO DRAIN

EXISTING DRIVEWAY TO BE REMOVED (TYP)

APPROXIMATE ORDINARY HIGH WATER ELEVATION

APN 050-270-009

MCCORMICK LANE

(FLOODWAY CONTAINED IN CHANNEL)

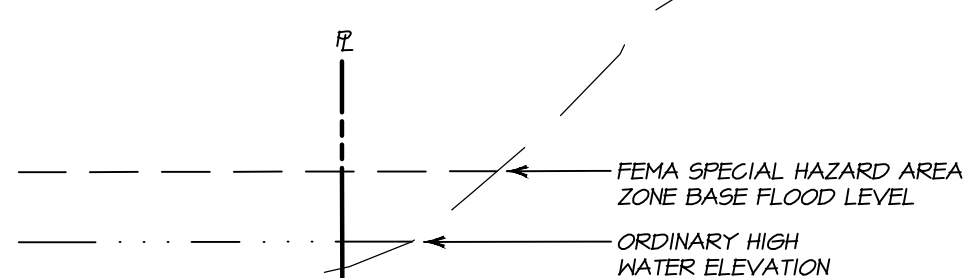
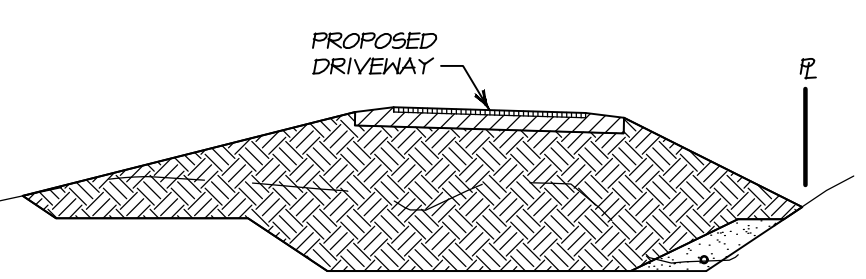
PROPOSED HMA DRIVEWAY

APPROXIMATE PROPERTY LINE

APN 050-270-027

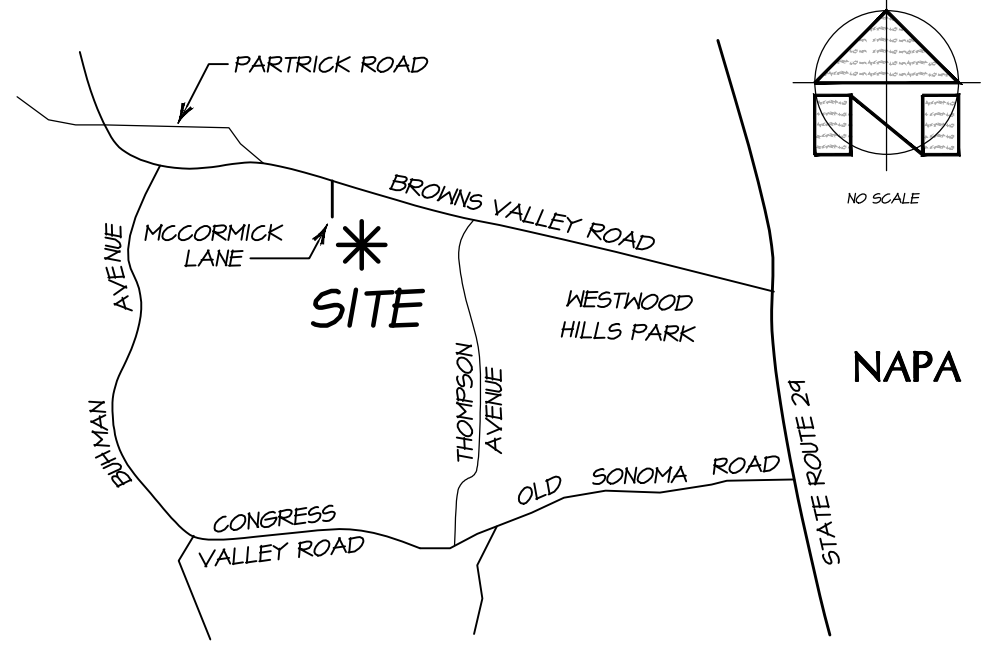
FLOODPLAIN & CREEK SETBACK EXHIBIT

SCALE: 1" = 10'



SECTION A-A

HORIZONTAL SCALE: 1" = 10'
VERTICAL SCALE: 1" = 10'



LOCATION MAP

NO SCALE

PROJECT INFORMATION:

PROPERTY OWNER & APPLICANT:
STEVEN M. AND ANDREA L. GARDEY
1100 MCCORMICK LANE
NAPA, CA 94558

PROJECT ADDRESS:
1100 MCCORMICK LANE
NAPA COUNTY, CA

ASSESSOR'S PARCEL NUMBER:
050-270-009

PARCEL SIZE:
14.95 ACRES

PROJECT SIZE:
550± LF OF DRIVEWAY

ZONING:
COUNTY = AW / CITY = H5

NOTES:

1. BASE FLOOD DATA FOR "FEMA SPECIAL HAZARD AREA ZONE AE" TAKEN FROM FLOOD INSURANCE RATE MAP (FIRM) PANEL 06055G0512E.
2. EXISTING RESIDENTIAL DRIVEWAY DESIGNED BY WINFIELD SMITH ASSOCIATES, PLANS DATED 08-20-1992.



PREPARED UNDER THE DIRECTION OF

PAUL N. BARTELT R.C.E. 45102

OWNERSHIP OF DOCUMENTS
THIS DRAWING IS THE PROPERTY OF BARTELT ENGINEERING AND SHALL NOT BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF BARTELT ENGINEERING. ALL CHANGES TO THE PLANS AND SPECIFICATIONS SHALL BE THE RESPONSIBILITY OF THE CLIENT. BARTELT ENGINEERING AND ITS EMPLOYEES SHALL NOT BE RESPONSIBLE FOR ANY DAMAGE TO PERSONS OR PROPERTY ARISING FROM THE USE OF THESE PLANS. THE CLIENT OF BARTELT ENGINEERING AND ITS EMPLOYEES SHALL BE RESPONSIBLE TO VERIFY THAT THIS DRAWING REPRESENTS THE LATEST INFORMATION RELATIVE TO THE PROJECT.
© COPYRIGHT 2018. ALL RIGHTS RESERVED.

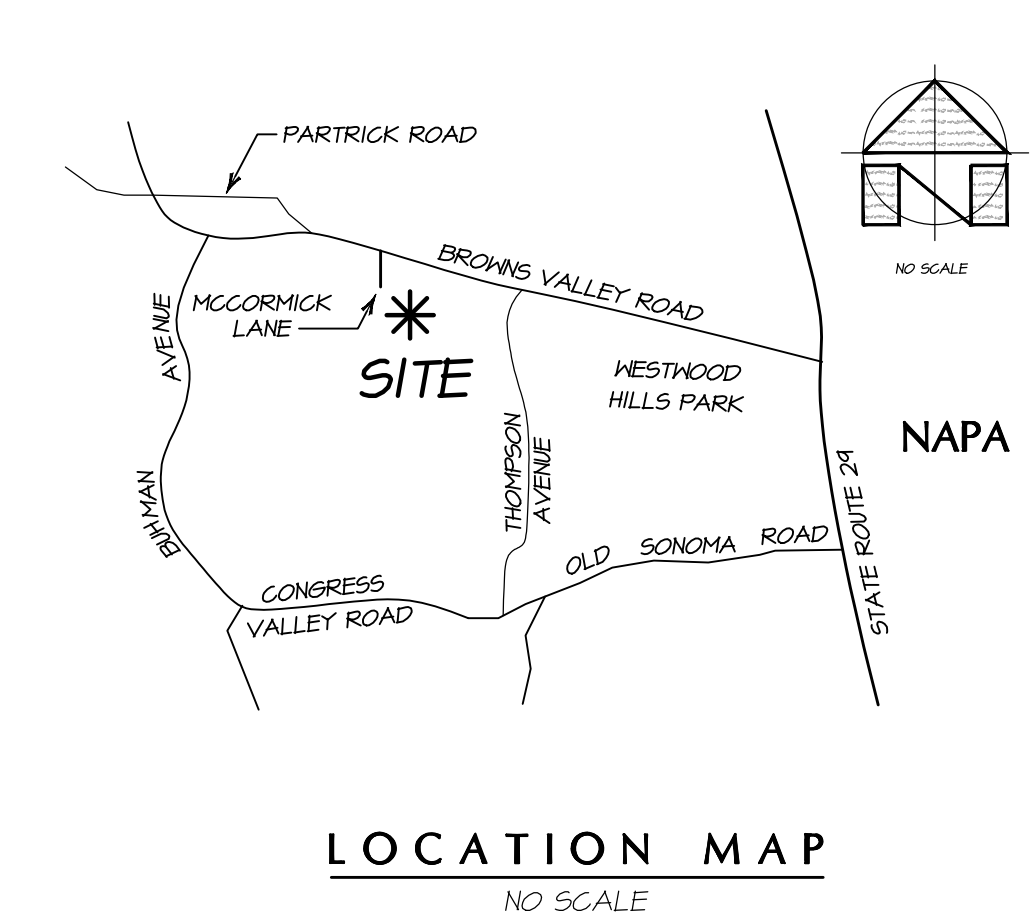
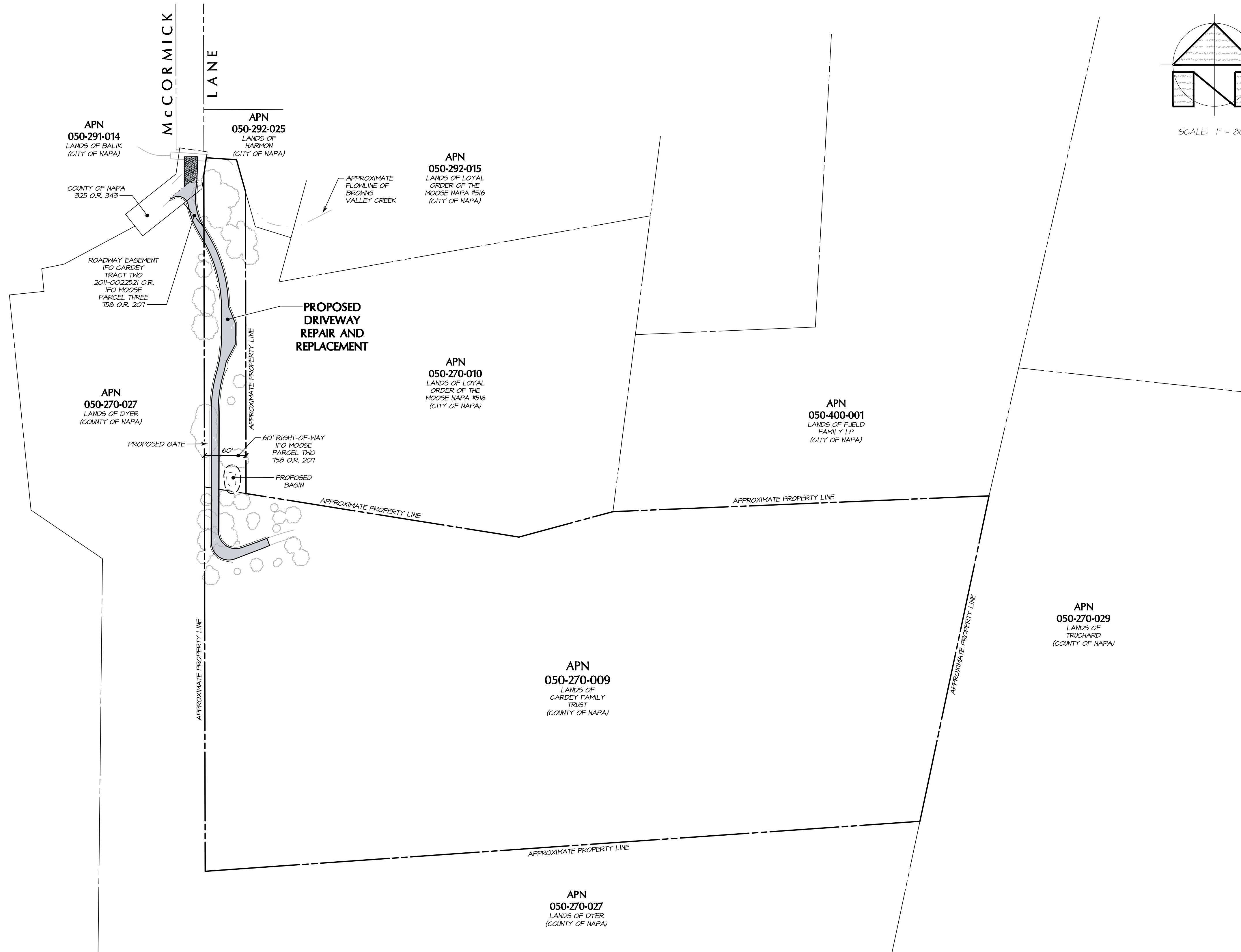
DES:	PNB / RP
CHKD:	PNB
DRWN:	KP
DATE:	FEB 17, 2018

BARTELT ENGINEERING
 CIVIL ENGINEERING - LAND PLANNING
 1303 Jefferson Street, 200 B, Napa, CA 94559
 www.barteltengineering.com
 Telephone: 707-258-1301
CARDEY RESIDENCE
FLOODPLAIN & CREEK SETBACK EXHIBIT
 NAPA COUNTY CALIFORNIA
 DATE: FEBRUARY 2018
 JOB NO: 17-04
 SHEET NO: **1**

3/14/2018 - 5:54 PM, K:\WP_5\LAND PROJ\050-270-009-2017\04-03\01 INF ROAD\ACAD\DWG\SETBACK_CREEK SETBACK_AE.dwg, ARCT FULL BLEED D (96.00 X 24.00 INCHES), 1" = 1', PLOTTED # BARTELT ENGINEERS, 707-258-1301

CARDEY RESIDENCE

DRIVEWAY IMPROVEMENT PLAN



PROJECT INFORMATION:

PROPERTY OWNER & APPLICANT:
STEVEN M. AND ANDREA L. GARDEY
1100 MCCORMICK LANE
NAPA, CA 94558

PROJECT ADDRESS:
1100 MCCORMICK LANE
NAPA COUNTY, CA

ASSESSOR'S PARCEL NUMBER:
050-270-009

PARCEL SIZE:
14.95 ACRES

PROJECT SIZE:
0.6± ACRES
550± LF OF DRIVEWAY

ZONING:
COUNTY = AW / CITY = H5

SHEET INDEX*:

SHEET C1	OVERALL SITE PLAN
SHEET C2	GENERAL NOTES
SHEET C3	DEMOLITION PLAN
SHEET C4	GRADING & LAYOUT PLAN AND DRIVEWAY PROFILE
SHEET C5	CROSS SECTIONS (STA 10+00 - 11+25)
SHEET C6	CROSS SECTIONS (STA 11+50 - 13+00)
SHEET C7	CROSS SECTIONS (STA 13+50 - 16+50)
SHEET C8	UTILITY PLAN
SHEET C9	DETAIL SHEET
SHEET C10	EROSION CONTROL PLAN
SHEET C11	DETAIL SHEET

* NOTE: THE CALIFORNIA BEST MANAGEMENT PRACTICES SHALL BE CONSIDERED A PART OF THIS PLAN.

PROJECT SUMMARY:

THE PURPOSE OF THIS PLAN IS TO PROVIDE INFORMATION TO RECONSTRUCT, REPAIR AND REPLACE AN EXISTING COMPROMISED DRIVEWAY.

PREPARED UNDER THE DIRECTION OF
PAUL N. BARTELT R.C.E. 45102

GEOTECHNICAL CONSULTANT

THIS GRADING PLAN HAS BEEN REVIEWED BY THE UNDERSIGNED AND FOUND TO BE IN CONFORMANCE WITH THE RECOMMENDATIONS OUTLINED IN THE PROJECT'S GEOTECHNICAL INVESTIGATION REPORT DATED AUGUST 25, 2011. THE GEOTECHNICAL INVESTIGATION REPORT SHALL BE CONSIDERED A PART OF THIS PLAN AND ALL GRADING WORK SHALL BE IN ACCORDANCE WITH SAID INVESTIGATION.

RGH CONSULTANTS

SEE PLAN REVIEW LETTER

OVERALL SITE PLAN
SCALE: 1" = 80'

NO.	DATE	DESCRIPTION	SHEETS	BY
02-26-18		STORM DRAIN REVISION	C3, C4, C6 & C10	KP



BARTELT ENGINEERING - LAND PLANNING
CIVIL ENGINEERING - LAND PLANNING
1303 Jefferson Street, 200 B, Napa, CA 94559
www.barteltengineering.com
Telephone: 707-258-1301

OWNERSHIP OF DOCUMENTS
DESIGN: PNB / R/P
DRAWN: KP
CHECKED: PNB
DATE: NOVEMBER 2017
JOB NO: 17-04
SHEET NO: C1

COPYRIGHT 2018. ALL RIGHTS RESERVED.

3/12/2018 - 3:44 PM, 1611P, S:\LAND PROJECTS\2018-2017\1704\JOB 17-04\1704-001\1704-001.dwg, G:\COVER_GSP_ARCH_PLOT_1800_X_2400_INCHES, 1" = 1', PLOTTED @ BARTELT ENGINEERING, 10/12/2018 10:01:00 AM

GENERAL NOTES:

- ALL WORKMANSHIP AND MATERIALS FOR THE IMPROVEMENTS SHOWN ON THESE PLANS SHALL CONFORM TO THE REQUIREMENTS OF THE NAPA COUNTY ROAD & STREET STANDARDS AND/OR THE LATEST EDITION OF THE STATE OF CALIFORNIA STANDARD SPECIFICATIONS AND STANDARD PLANS, THE 2016 CALIFORNIA BUILDING CODE (C.B.C.), THE 2016 CALIFORNIA PLUMBING CODE (C.P.C.) AND NAPA COUNTY ENVIRONMENTAL HEALTH STANDARDS. THE IMPROVEMENTS SHOWN ON THESE PLANS SHALL BE INSPECTED BY A REPRESENTATIVE FROM NAPA COUNTY PLANNING, BUILDING AND ENVIRONMENTAL SERVICES DEPARTMENT AND THE ENGINEER.
- CONTRACTOR SHALL PROVIDE SUBMITTALS FOR ALL MATERIALS TO BE USED ON THE PROJECT TO THE ENGINEER FOR APPROVAL PRIOR TO BIDDING, PURCHASING OR INSTALLATION. CONTRACTOR SHOULD ALLOW AT LEAST FIVE (5) WORKING DAYS FOR INITIAL REVIEW OF EACH SUBMITTAL AND ADDITIONAL TIME IF COORDINATION WITH SUBSEQUENT SUBMITTALS IS REQUIRED. ALLOW FIVE (5) WORKING DAYS FOR EACH RESUBMITTAL. USE OF UNAPPROVED MATERIALS SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- ALL MATERIALS SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR BEING FAMILIAR WITH THE SPECIFICATIONS AND PROCEDURES REQUIRED BY NAPA COUNTY FOR THE WORK OUTLINED IN THESE PLANS. CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING A COPY OF THE APPROVED PLANS AND ANY ADDENDUMS AT THE JOB SITE AT ALL TIMES.
- CONTRACTOR SHALL BE APPROPRIATELY LICENSED WITH THE STATE OF CALIFORNIA TO PERFORM THE WORK OUTLINED IN THESE PLANS.
- PRIOR TO THE COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR SHALL SECURE CONSTRUCTION PERMITS FROM NAPA COUNTY AND OTHER AGENCIES AS NECESSARY.
- CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL APPROPRIATE PERMITS PRIOR TO THE START OF ANY WORK WITHIN A RIPARIAN AREA.
- CONTRACTOR SHALL CONTACT BARTELT ENGINEERING TO ARRANGE A PRE-CONSTRUCTION MEETING FOR THE PURPOSE OF REVIEWING JOB REQUIREMENTS AND NAPA COUNTY PROCEDURES.
- CONTRACTOR SHALL NOTIFY NAPA COUNTY STAFF AND THE ENGINEER AT LEAST THREE (3) WORKING DAYS PRIOR TO COMMENCEMENT OF WORK.
- CONSTRUCTION AND GRADING ACTIVITIES ON THE SITE SHALL BE LIMITED TO BETWEEN 7:00 A.M. AND 7:00 P.M. DAILY.
- CONTRACTOR SHALL PROVIDE EMERGENCY TELEPHONE NUMBERS TO THE NAPA COUNTY SHERIFF, FIRE AND PUBLIC WORKS DEPARTMENTS AND KEEP THEM INFORMED DAILY REGARDING STREETS UNDER CONSTRUCTION AND DETOURS. DETOURS SHALL NOT BE PERMITTED UNLESS APPROVED IN WRITING BY THE NAPA COUNTY PUBLIC WORKS DEPARTMENT.
- CONTRACTOR SHALL REQUEST INSPECTIONS A MINIMUM OF THREE (3) WORKING DAYS IN ADVANCE BY CALLING NAPA COUNTY PLANNING, BUILDING AND ENVIRONMENTAL SERVICES DEPARTMENT AT (707) 253-4471, 8:00 A.M. TO 5:00 P.M., MONDAY THROUGH FRIDAY AND THE ENGINEER AT (707) 258-1301.
- CONTRACTOR SHALL NOTIFY ALL PUBLIC OR PRIVATE UTILITY COMPANIES TWO (2) WORKING DAYS PRIOR TO COMMENCEMENT OF WORK ON THIS PROJECT TO VERIFY THE LOCATION OF EXISTING UTILITY LINES. CALL UNDERGROUND SERVICE ALERT (U.S.A.) TOLL FREE AT 811 OR 1-800-221-2600, 6:00 A.M. TO 7:00 P.M., MONDAY THROUGH FRIDAY OR SUBMIT TICKET ONLINE AT www.811express.com.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION OF ALL EXISTING UTILITIES IN THE FIELD. COSTS OF REPAIRING ANY DAMAGES OR INJURIES CAUSED BY THE CONTRACTOR SHALL BE BORNE BY THE CONTRACTOR. VARIOUS UNDERGROUND LINES WERE PLOTTED ON THE PLANS FROM THE INFORMATION OBTAINED FROM THE RESPECTIVE UTILITY COMPANIES AND/OR THE OWNER. THEREFORE, NO WARRANTY EXPRESSED OR IMPLIED, IS MADE AS TO THE COMPLETENESS OR CORRECTNESS OF THEIR LOCATION.
- EXISTING UTILITIES SHALL BE KEPT IN SERVICE AT ALL TIMES. UTILITIES THAT INTERFERE WITH THE WORK TO BE PERFORMED SHALL BE PROTECTED AS REQUIRED BY NAPA COUNTY, PG&E, AT&T, COMCAST AND THE OWNER.
- CONTRACTOR SHALL COORDINATE ALL NECESSARY UTILITY RELOCATIONS, IF REQUIRED, WITH THE APPROPRIATE UTILITY COMPANIES AND/OR THE OWNER.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXISTING FACILITIES AND IMPROVEMENTS FROM DAMAGE RESULTING FROM CONTRACTOR'S WORK. ANY DAMAGE CAUSED BY CONTRACTOR SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL PROVIDE AND MAINTAIN SUFFICIENT BARRICADES TO PROVIDE FOR THE SAFETY OF THE GENERAL PUBLIC TO THE SATISFACTION OF NAPA COUNTY AND THE OWNER.
- CONTRACTOR AGREES THAT THEY SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THE PROJECT, EXCEPT FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.
- SHOULD ANY CONTRACTOR OR SUBCONTRACTOR FIND ANY DEFICIENCIES, ERRORS, CONFLICTS OR OMISSIONS IN THESE PLANS AND SPECIFICATIONS OR SHOULD THERE BE ANY DOUBT AS TO THEIR MEANINGS OR INTENT, THE CONTRACTOR SHALL NOTIFY BARTELT ENGINEERING FOR A WRITTEN CLARIFICATION, ADDENDUM, ETC. SHOULD THE CONTRACTOR FAIL TO DO SO BEFORE SUBMITTING A PROPOSAL, THE CONTRACTOR CANNOT CLAIM ADDITIONAL COMPENSATION FOR WORK REQUIRED TO COMPLETE THE PROJECT.
- ALL DIMENSIONS SHOWN ON THE PLANS SHOW MEASUREMENTS IN A HORIZONTAL PLANE. ALL STATIONS (SHOWN ON THE PLAN AND PROFILE) ARE TAKEN ALONG CENTER LINES UNLESS OTHERWISE NOTED ON THE PLANS. WRITTEN DIMENSIONS ALWAYS TAKE PRECEDENCE OVER SCALED DIMENSIONS. IF THERE IS A CONFLICT, NOTIFY BARTELT ENGINEERING AND OBTAIN CLARIFICATION.
- FADED BACKGROUND REPRESENTS EXISTING TOPOGRAPHIC FEATURES. THE TOPOGRAPHIC INFORMATION SHOWN ON THIS PLAN WAS TAKEN FROM THE "TOPOGRAPHIC MAP OF 1100 MCCORMICK LANE" PREPARED BY CINQUINI AND PASGARINO, INC. DATED JUNE 19, 2011. BARTELT ENGINEERING ASSUMES NO LIABILITY, REAL OR ALLEGED, REGARDING THE ACCURACY OF THE TOPOGRAPHIC INFORMATION SHOWN.

BENCHMARK NOTE: CONTROL POINT NO. 5, BEING A SET MAG NAIL AT THE SOUTH END OF MCCORMICK LANE, ELEVATION: 140.05'
 VERTICAL DATUM: NAVD83
 BASIS OF BEARING: BEING SOUTH 76°48'11" EAST BETWEEN CONTROL POINTS 33 AND 34 AS SHOWN IN THE POST EARTHQUAKE CONTROL REVIEW, DATED APRIL 10, 2015 ON FILE AT THE CITY OF NAPA PUBLIC WORKS DEPARTMENT, OF THE CITY OF NAPA'S CONTROL NETWORK RECORDED IN BOOK 41 OF SURVEYS AT PAGES 44 THROUGH 47 INCLUSIVE, NAPA COUNTY RECORDS.
 CONTOUR INTERVAL: EVERY ONE (1) FOOT, HIGHLIGHTED EVERY FIVE (5) FEET

- THIS DRAWING DOES NOT REPRESENT A BOUNDARY SURVEY. BOUNDARY LINES SHOWN ARE APPROXIMATE AND FOR INFORMATIONAL PURPOSES ONLY.
- THESE PLANS ARE INTENDED TO BE USED FOR CONSTRUCTION STAKING OF THE SITE IMPROVEMENTS SHOWN HEREON AND TO PROVIDE HORIZONTAL AND VERTICAL CONTROL FOR THE DRIVEWAY LOCATION. ALL STAKING IS TO BE PERFORMED BY A LICENSED LAND SURVEYOR. IF THE CONTRACTOR OR SURVEYOR FINDS ANY DISCREPANCIES, CONTACT BARTELT ENGINEERING FOR A WRITTEN CLARIFICATION.
- THE TERM "ENGINEER", AS CALLED OUT ON THIS SET OF PLANS, SHALL MEAN A REPRESENTATIVE OF BARTELT ENGINEERING.

PLANNING NOTES:

- CONSTRUCTION ACTIVITIES THROUGHOUT THE ENTIRE DURATION OF THE PROJECT SHALL BE LIMITED TO THE HOURS OF THE NAPA COUNTY ROAD & STREET FRIDAY. THERE WILL BE NO START UP OF MACHINES NOR EQUIPMENT PRIOR TO 8:00 A.M., MONDAY THROUGH FRIDAY; NO DELIVERY OF MATERIALS NOR EQUIPMENT PRIOR TO 7:30 A.M. NOR PAST 5:30 P.M., MONDAY THROUGH FRIDAY; NO CLEANING OF MACHINES NOR EQUIPMENT PAST 6:00 P.M., MONDAY THROUGH FRIDAY; NO SERVICING OF EQUIPMENT PAST 6:45 P.M., MONDAY THROUGH FRIDAY; CONSTRUCTION ON WEEKENDS OR LEGAL HOLIDAYS SHALL BE LIMITED TO THE HOURS OF 8:00 A.M. TO 4:00 P.M.
- SHOULD HAZARDOUS MATERIALS BE ENCOUNTERED DURING CONSTRUCTION, NAPA COUNTY ENVIRONMENTAL HEALTH SHALL BE NOTIFIED AND APPROPRIATE REMEDIATION MEASURES SHALL BE UNDERTAKEN.
- SHOULD GROUND-DISTURBING ACTIVITIES ASSOCIATED WITH CONSTRUCTION REVEAL THE PRESENCE OF POTENTIAL CULTURAL RESOURCES (E.G., ARTIFACT CONCENTRATIONS, STRUCTURAL DEBRIS, SKELETAL REMAINS) WORK WITHIN 50 FEET OF THE FIND SHALL BE SUSPENDED UNTIL A QUALIFIED CULTURAL RESOURCE SPECIALIST CAN EVALUATE THE DISCOVERY AND RECOMMEND APPROPRIATE MITIGATION MEASURES, CONSISTENT WITH THE CEQA GUIDELINES, AS APPENDED. AS PROJECT CONSTRUCTION PROCEEDS, THE DISCOVERY SHALL BE CLEARLY MARKED AND PROTECTED BY TEMPORARY FENCINGS IF CULTURAL RESEARCH OR RECOVERY TECHNIQUES ARE LONG-TERM IN NATURE.
- SHOULD SKELETAL REMAINS BE ENCOUNTERED, THE NAPA COUNTY CORONER SHALL BE NOTIFIED. SHOULD THE CORONER DETERMINE THAT SUCH REMAINS ARE IN A CONTEXT SUGGESTING THE HISTORIC OR PREHISTORIC OCCUPANCY BY NATIVE AMERICANS, THE CALIFORNIA NATIVE AMERICAN HERITAGE COMMISSION SHALL BE NOTIFIED, SO IT MAY ARRANGE AT ITS DISCRETION FOR QUALIFIED NATIVE AMERICAN OR EQUIVALENT PARTICIPATION IN DETERMINING THE DISPOSITION OF SUCH REMAINS.
- IN THE EVENT ANY HISTORIC OR CULTURAL RESOURCES ARE DISCOVERED DURING THE GRADING, ALL ACTIVITIES SHALL CEASE. A QUALIFIED ARCHAEOLOGIST SHALL BE RETAINED TO PRESERVE, PROTECT OR REMOVE ANY SIGNIFICANT HISTORIC OR CULTURAL RESOURCES.

GRADING NOTES:

- ALL MOVEMENT OF EARTH SHALL COMPLY WITH NAPA COUNTY ROAD & STREET STANDARDS, THE 2016 CALIFORNIA BUILDING CODE (C.B.C.), NAPA COUNTY CONSERVATION REGULATIONS, THE GEOTECHNICAL INVESTIGATION REPORT AND THESE PLANS.
- THE SITE SHALL BE VISUALLY INSPECTED BY THE CONTRACTOR TO DETERMINE THE EXTENT OF CLEARING, GRUBBING AND GRADING WORK TO BE DONE. GRADING ON THE SITE WILL BE LIMITED TO THE EXCAVATIONS AND/OR FILLS AS SHOWN ON THESE PLANS.
- ALL GRADING SHALL BE PERFORMED IN ACCORDANCE WITH THE RECOMMENDATIONS IN THE GEOTECHNICAL INVESTIGATION REPORT PREPARED BY RGH CONSULTANTS DATED AUGUST 25, 2017. THE CONTRACTOR SHALL OBTAIN A COPY OF THE GEOTECHNICAL INVESTIGATION REPORT FROM THE OWNER PRIOR TO COMMENCEMENT OF THE WORK.
- THE GEOTECHNICAL ENGINEER SHALL BE NOTIFIED AT LEAST THREE (3) WORKING DAYS IN ADVANCE OF COMMENCING WORK, INCLUDING SITE STRIPPING AND GRADING OPERATIONS. THE GRADING WORK SHOWN ON THESE PLANS SHALL BE OBSERVED AND TESTED BY THE GEOTECHNICAL ENGINEER OR HIS REPRESENTATIVE.
- SOIL STRIPPED AS DETAILED IN THE GEOTECHNICAL INVESTIGATION REPORT SHALL BE STOCKPILED FOR USE IN LANDSCAPED AREAS. CONTRACTOR SHALL COORDINATE STOCKPILE LOCATION WITH THE ENGINEER.
- CONTRACTOR SHALL CONDUCT ALL GRADING OPERATIONS IN SUCH A MANNER AS TO PRECLUDE WIND BLOWN DIRT AND DUST AND RELATED DAMAGE TO NEIGHBORING PROPERTIES. SUFFICIENT WATERING TO CONTROL DUST IS REQUIRED AT ALL TIMES. CONTRACTOR SHALL ASSUME LIABILITY FOR CLAIMS RELATED TO WIND BLOWN MATERIAL. IF THE DUST CONTROL IS INADEQUATE AS DETERMINED BY NAPA COUNTY OR THE OWNER, CONSTRUCTION WORK SHALL BE SUSPENDED UNTIL CORRECTIVE MEASURES ARE TAKEN.
- CONTRACTOR SHALL CONFORM TO EXISTING SURROUNDING TOPOGRAPHY AND OTHER IMPROVEMENTS WITH A SMOOTH TRANSITION IN GRADING, ETC., AND AVOID ANY ABRUPT OR APPARENT CHANGES IN GRADES OR CROSS SLOPES, LOW SPOTS OR HAZARDOUS CONDITIONS.
- TREES THAT ARE REMOVED SHALL ALSO HAVE THEIR STUMPS AND MAJOR ROOT SYSTEMS REMOVED. AFTER A TREE OR A STUMP IS REMOVED THE RESULTING EARTH CAVITY SHALL BE CLEANED OF LARGER ROOTS (THO (2) INCH DIAMETER AND LARGER). SOIL SHOULD BE REMOVED AND DISHD TO PROVIDE ACCESS FOR COMPACTION EQUIPMENT. ALL EARTHWORK, SCARIFICATION, BACKFILL AND COMPACTION SHALL BE PERFORMED PER THE GEOTECHNICAL INVESTIGATION REPORT, THESE PLANS AND NAPA COUNTY REQUIREMENTS.
- THE TREE STUMPS AND ALL OTHER ORGANIC MATERIAL TO BE REMOVED AS PART OF THE CONSTRUCTION SHALL BE CHIPPED AND/OR HAULED OFFSITE AND DISPOSED OF PROPERLY.

UTILITY NOTES:

- ALL WORK SHALL BE IN COMPLIANCE WITH APPLICABLE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (O.S.H.A.) STANDARDS AS SET FORTH BY THE FEDERAL DEPARTMENT OF LABOR AND/OR THE STATE OF CALIFORNIA. THE CONTRACTOR SHALL SECURE A TRENCH PERMIT FROM THE CALIFORNIA DIVISION OF INDUSTRIAL SAFETY PRIOR TO EXCAVATION OF ANY TRENCH OVER FIVE (5) FEET DEEP.
- TRENCHING AND BACKFILL WITHIN THE PUBLIC RIGHT OF WAY AND UNDER PRIVATE ROADS SHALL COMPLY WITH NAPA COUNTY STANDARDS. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE SAFETY STANDARDS FOR TRENCH SAFETY.
- ALL STORM DRAIN SYSTEM INSTALLATION SHALL BE DONE IN ACCORDANCE WITH NAPA COUNTY STANDARDS. PLASTIC PIPE FOR THE STORM DRAIN SHALL COMPLY WITH SECTION 64 OF THE CALTRANS STANDARD SPECIFICATIONS. REINFORCED CONCRETE PIPE (RCP) SHALL BE CLASS 3 PER SECTION 65 OF THE CALTRANS STANDARD SPECIFICATIONS.
- ALL WATER SYSTEM WORK SHALL BE DONE IN ACCORDANCE WITH THE CURRENT CITY OF NAPA SPECIFICATIONS.

TREE PRESERVATION NOTES:

- PROTECT TREE ROOT SYSTEMS FROM DAMAGE DUE TO NOXIOUS MATERIALS CAUSED BY RUNOFF OR SPILLAGE WHILE MIXING, PLACING OR STORING CONSTRUCTION MATERIALS. PROTECT ROOT SYSTEMS FROM FLOODING, ERODING, OR EXCESSIVE WETTING CAUSED BY DEWATERING OPERATIONS.
- DO NOT STORE CONSTRUCTION MATERIALS, DEBRIS, OR EXCAVATED MATERIAL WITHIN THE DRIP LINE OF REMAINING TREES. DO NOT FERTILIZE TREES OR FLOOD TRAFFIC WITHIN THE DRIP LINE AND PREVENT SOIL COMPACTION OVER ROOT SYSTEMS.
- TREE PRESERVATION STANDARDS WILL BE UTILIZED FOR THE PRESERVATION OF TREES LOCATED WITHIN 25 FEET OF THE LIMITS OF WORK. CONSTRUCTION ACTIVITY INCLUDES BUT IS NOT LIMITED TO GRADINGS, TRENCHING, EXCAVATING, OPERATION OR PARKING OF CONSTRUCTION EQUIPMENT OR VEHICLES IN THE VICINITY OF A TREE TO BE PRESERVED WHICH HAS THE POTENTIAL TO HARM OR AFFECT THE HEALTH OR VIGOR OF THE TREE.
- CLEANING OF CONSTRUCTION TOOLS OR EQUIPMENT - ANY AND ALL CLEANING OF CONSTRUCTION TOOLS OR EQUIPMENT SHALL OCCUR FAR FROM THE TREES TO DISCOURAGE TOXIC LEACHATES FROM ENTERING THE TREE PRESERVATION ZONES (TPZ).
- CONTRACTORS AND SUBCONTRACTORS WILL DIRECT ALL EQUIPMENT AND PERSONNEL TO REMAIN OUTSIDE TREE PRESERVATION ZONES (TPZ) AT ALL TIMES UNTIL THE PROJECT IS COMPLETE AND WILL INSTRUCT PERSONNEL AND SUBCONTRACTORS AS TO THE PURPOSE AND IMPORTANCE OF PRESERVATION.
- TREE AND ROOT PRUNING - PRUNING SHALL COMPLY WITH ANSI (Z39.1) PRUNING STANDARDS. ALL CUTS SHALL OCCUR JUST OUTSIDE THE BRANCH BARK RIDGE OR CALLUS SHOULDER, SHOULD ONE BE PRESENT. THE TREES SHALL BE THINNED WITH NO DRAMATIC CHANGE IN CURRENT ARCHITECTURAL FORM. SHAPING MAY BE NECESSARY FOR BUILDING CLEARANCE. CLIMBING SPURS WILL NOT BE ALLOWED FOR PRUNING ACTIVITIES.
- PRUNE TREES ACCORDING TO THE NATIONAL ARBORIST ASSOCIATION'S "PRUNING STANDARDS FOR SHADE TREES". ANY DAMAGE TO ROOTS OF TREES TO REMAIN SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE OWNER AND ENGINEER TO DETERMINE IF PRUNING OF THE CROWN IS NECESSARY TO COMPENSATE FOR ROOT DAMAGE. CUT BRANCHES WITH SHARP PRUNING INSTRUMENTS; DO NOT BREAK OR CHOP. PRUNE TREE ROOTS EXPOSED DURING GRADE LOWERING. DO NOT CUT MAIN LATERAL ROOTS OR TAP ROOTS; CUT ONLY SMALLER ROOTS. CUT ROOTS WITH SHARP PRUNING INSTRUMENTS; DO NOT BREAK OR CHOP.
- TRENCHING AND GRADING - TRENCHING AND GRADING SHALL BE RESTRICTED TO THE CONSTRUCTION ENVELOPE. NO GRADING OR TRENCHING SHALL OCCUR WITHIN THE TPZ. ALL ROOTS ENCOUNTERED OUTSIDE THE TPZ WILL BE PRUNED IMMEDIATELY AND NEATLY BACK TO THE TPZ. FINAL PRUNING CUTS SHALL BE FREE OF CRACKS OR SHATTERED MATERIAL.
- REGRADE - WHERE NEW FINISH GRADE IS INDICATED BELOW EXISTING GRADE AROUND TREES, SLOPE GRADE BEYOND TREE DRIP LINE IF POSSIBLE. MAINTAIN EXISTING GRADES WITHIN TREE DRIP LINE TO THE GREATEST EXTENT POSSIBLE. ORIGINAL GRADE WILL BE MAINTAINED IN THE IMMEDIATE AREA OF THE ROOT CROWN AND WHERE THE SOIL CONTACTS THE TREE TRUNK, AT ALL TIMES. NO INCREASE IN GRADE WILL BE ALLOWED UNDER ANY CIRCUMSTANCES IN THIS AREA.
- DO NOT EXCAVATE WITHIN TREE DRIP LINE, UNLESS OTHERWISE INDICATED.
- RELOCATE ROOTS IN BACKFILL AREAS WHEREVER POSSIBLE. IF ENCOUNTERING LARGE MAIN LATERAL ROOTS, EXPOSE BEYOND EXCAVATION LIMITS AS REQUIRED TO BEND AND RELOCATE WITHOUT BREAKING. IF ENCOUNTERED IMMEDIATELY ADJACENT TO LOCATION OF NEW CONSTRUCTION AND RELOCATION IS NOT PRACTICAL, CUT ROOTS APPROXIMATELY THREE (3) INCHES BACK FROM NEW CONSTRUCTION. DO NOT ALLOW EXPOSED ROOTS TO DRY OUT BEFORE PLACING PERMANENT BACKFILL. PROVIDE TEMPORARY EARTH COVER OR PACK WITH FEAT MOSS AND WRAP WITH BURLAP. WATER AND MAINTAIN IN A MOIST CONDITION AND TEMPORARILY SUPPORT AND PROTECT ROOTS FROM DAMAGE UNTIL THEY ARE PERMANENTLY RELOCATED AND COVERED WITH EARTH.
- ROOTS OF SINGLE STANDING TREES OFTEN EXTEND TWO (2) TO THREE (3) TIMES THE DISTANCE OF THE ACTUAL DRIP LINE AND FUNCTION PRIMARILY IN THE UPTAKE OF NUTRIENTS AND WATER. THE DRIP LINE IS ARBITRARILY ESTABLISHED AS THE MINIMUM ROOT AREA GENERALLY REQUIRED TO PRESERVE TREE HEALTH. AS MUCH AREA AROUND THE CIRCUMFERENCE OF THE TREE BEYOND THE DRIP LINE WILL HAVE MINIMUM INTRUSION TO FURTHER ENSURE TREE SURVIVAL AND HEALTH.
- ALL GRADING WILL BE ACCOMPLISHED TO PREVENT THE CONCENTRATION OF RUNOFF NEAR EXISTING TREES. THE INTENT IS TO PREVENT ACCUMULATION OF EXCESS WATER IN THE ROOT ZONES OF EXISTING TREES.

3/12/2018 - 9:45 PM 161NIP_S1LAND PROJECT192003-207117C4AD171NIP_ROADACAD19ELANS1704-19F2D616 C2-NOTES_ARCH FULL BLED D (36X00 X 24X00 INCHES), I = 1, PLOTTED @ BARTELT ENGINEERING, 707-258-1501

OWNERSHIP OF DOCUMENTS
 THIS DRAWING IS THE PROPERTY OF BARTELT ENGINEERING AND SHALL NOT BE USED IN WHOLE OR IN PART FOR ANY OTHER PROJECT WITHOUT THE WRITTEN PERMISSION OF BARTELT ENGINEERING. BARTELT ENGINEERING SHALL NOT BE RESPONSIBLE FOR ANY DAMAGE TO OR LOSS OF ANY INFORMATION CONTAINED HEREIN.
 TO THE BEST OF OUR KNOWLEDGE AND BELIEF, THE INFORMATION CONTAINED IN THIS DRAWING WAS OBTAINED FROM SOURCES WE BELIEVE TO BE RELIABLE. BARTELT ENGINEERING AND ITS ENGINEERS AND SURVEYORS MAKE NO WARRANTY, REPRESENTATION OR GUARANTEE, EXPRESS OR IMPLIED, AS TO THE ACCURACY, COMPLETENESS OR RELIABILITY OF THE INFORMATION CONTAINED IN THIS DRAWING. BARTELT ENGINEERING AND ITS ENGINEERS AND SURVEYORS SHALL NOT BE RESPONSIBLE FOR ANY DAMAGE TO OR LOSS OF ANY INFORMATION CONTAINED HEREIN.
 © COPYRIGHT 2018. ALL RIGHTS RESERVED.

BARTELT ENGINEERING
 CIVIL ENGINEERING - LAND PLANNING
 1303 Jefferson Street, 200 B, Napa, CA 94959
www.barteltengineering.com
 Telephone: 707-258-1301

CARDEY RESIDENCE
GENERAL NOTES
 NAPA COUNTY CALIFORNIA



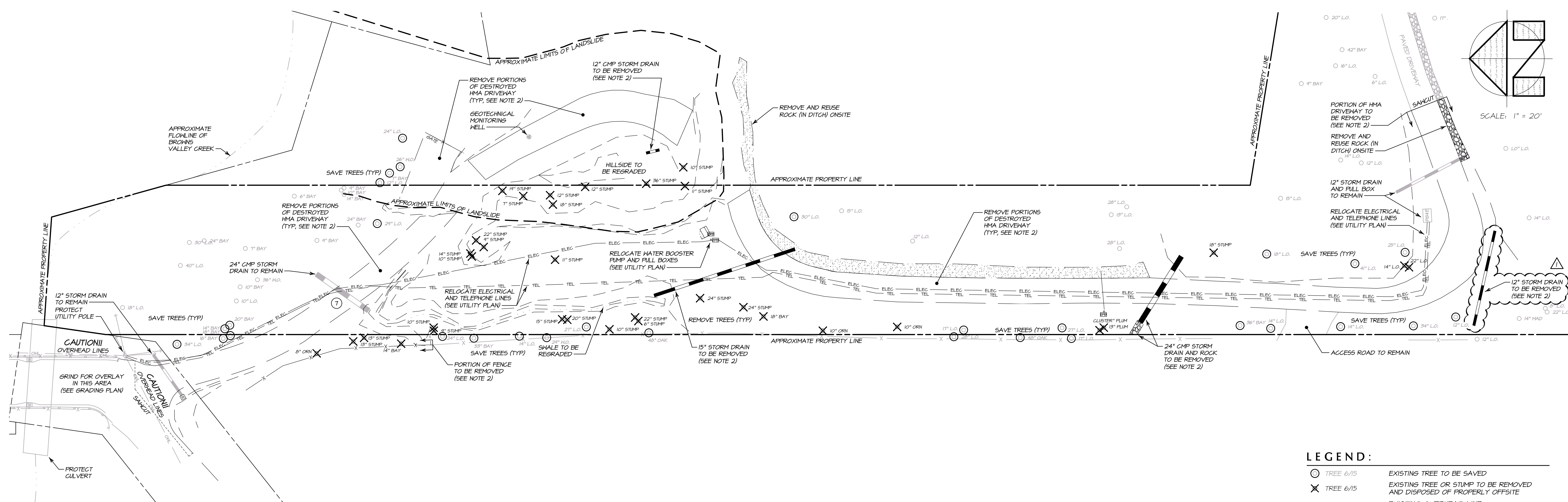
PREPARED UNDER THE DIRECTION OF

PAUL N. BARTELT R.C.E. 45102

NO.	DATE	DESCRIPTION	BY
1	02-26-18	NO CHANGE TO THIS SHEET	KP

DATE: NOVEMBER 2017
 JOB NO: 17-04
 SHEET NO: **C2**
 OF 11

3/12/2018 - 9:45 PM 161MP_S:\LAND PROJECTS\2015-2017\104\DOT IMP ROAD\ACAD\PLANS\104-IMP\DWG_C3-DEMO_ARCH FULL BLEED D (8K.00 X 24.00 INCHES) 1" = 1" PLOTTED @ BARTLETT ENGINEERING 707-258-1301



DEMOLITION PLAN

SCALE: 1" = 20'

LEGEND:

○ TREE 6/15	EXISTING TREE TO BE SAVED
✕ TREE 6/15	EXISTING TREE OR STUMP TO BE REMOVED AND DISPOSED OF PROPERLY OFFSITE
— OHL —	EXISTING OVERHEAD LINE
— ELEC —	EXISTING ELECTRICAL LINE TO BE REMOVED
— TEL —	EXISTING TELEPHONE LINE TO BE REMOVED
— S.D. —	EXISTING STORM DRAIN LINE TO BE REMOVED

DEMOLITION NOTES:

1. ALL ITEMS TO BE ADDRESSED BY THIS DEMOLITION PLAN ARE HIGHLIGHTED IN BLACK UNLESS OTHERWISE NOTED.
2. OBJECTS TO BE REMOVED SHALL BE DISPOSED OF PROPERLY OFFSITE UNLESS NOTED OTHERWISE.
3. ALL EXISTING IMPROVEMENTS TO REMAIN SHALL BE PROTECTED FROM DAMAGE THROUGHOUT THE COURSE OF CONSTRUCTION.
4. UNDERGROUND UTILITIES ARE SHOWN IN APPROXIMATE LOCATIONS. CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL UTILITIES NOT SLATED FOR DEMOLITION.
5. CONTRACTOR SHALL DETERMINE LOCATION OF EXISTING GAS, ELECTRICAL, PHONE, CABLE TV, SANITARY SEWER AND POTABLE WATER LINES PRIOR TO START OF DEMOLITION.
6. ALL EXISTING UTILITIES DISCOVERED DURING CONSTRUCTION SHALL BE SAVED, REMOVED OR RE-ROUTED AS DIRECTED BY THE OWNER AND ENGINEER IN THE FIELD.
7. EXISTING WATER LINE IN THIS AREA TO BE REMOVED AND DISPOSED OF PROPERLY OFFSITE.
8. ALL TREES AND VEGETATION NOT MARKED FOR REMOVAL ARE TO BE SAVED THROUGHOUT THE COURSE OF DEMOLITION AND CONSTRUCTION UNLESS DIRECTED OTHERWISE BY THE OWNER. SEE TREE PRESERVATION NOTES.
9. ALL MISCELLANEOUS MATERIALS, VEGETATION AND ROOTS WITHIN THE PROJECT AREA THAT ARE NOT SPECIFICALLY ADDRESSED ON THIS PLAN ARE TO BE REMOVED AND DISPOSED OF PROPERLY OFFSITE BY THE CONTRACTOR.
10. SANKUT AND REMOVE EXISTING HMA PAVEMENT, GRAVEL AND CONCRETE AND DISPOSE OF PROPERLY OFFSITE.
11. COORDINATE ANY TEMPORARY STOCKPILING OF MATERIAL WITH THE ENGINEER.
12. ALL EXISTING WATER, ELECTRIC, PHONE AND CABLE TV UTILITIES THAT ARE SCHEDULED FOR DEMOLITION ARE TO BE LOCATED, PROPERLY DISCONNECTED BY THE APPROPRIATE UTILITY COMPANY AND DISPOSED OF PROPERLY OFFSITE.
13. CONTRACTOR SHALL OBTAIN AN ENCROACHMENT PERMIT FROM NAPA COUNTY DEPARTMENT OF PUBLIC WORKS AND/OR THE CITY OF NAPA PUBLIC WORKS DEPARTMENT FOR ANY WORK WITHIN THE RIGHT-OF-WAY OF MCCORMICK LANE PRIOR TO THE START OF DEMOLITION ON THIS PROJECT.

NO.	DATE	DESCRIPTION	BY
02-26-18		STORM DRAIN REVISION	KP



PREPARED UNDER THE DIRECTION OF
PAUL N. BARTELT R.C.E. 45102

CARDEY RESIDENCE
 DEMOLITION PLAN

NAPA COUNTY
 CALIFORNIA

OWNERSHIP OF DOCUMENTS
 BARTLETT ENGINEERING SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION PROVIDED IN THIS DRAWING. THE CLIENT OF BARTLETT ENGINEERING SHALL BE RESPONSIBLE FOR VERIFYING THE INFORMATION PROVIDED IN THIS DRAWING. BARTLETT ENGINEERING SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION PROVIDED IN THIS DRAWING.

DES: PNB / RP
 DRAW: KP
 CHECK: PNB

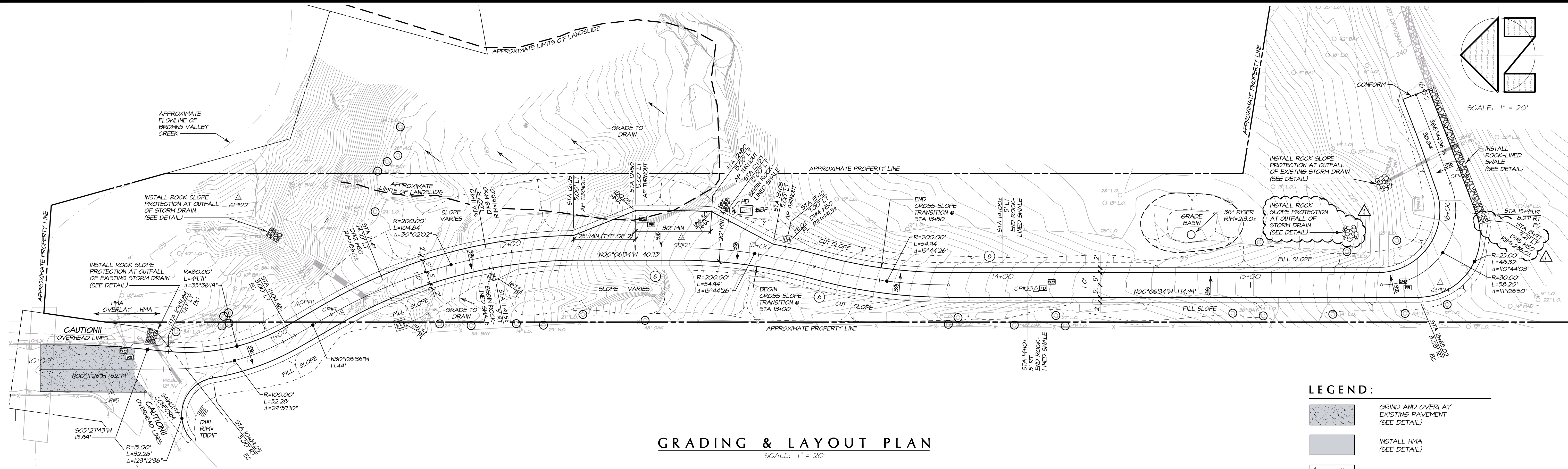
BARTLETT ENGINEERING
 CIVIL ENGINEERING - LAND PLANNING
 1303 Jefferson Street, 200 B, Napa, CA 94959
 www.bartlettengineering.com
 Telephone: 707-258-1301

DATE: NOVEMBER 2017

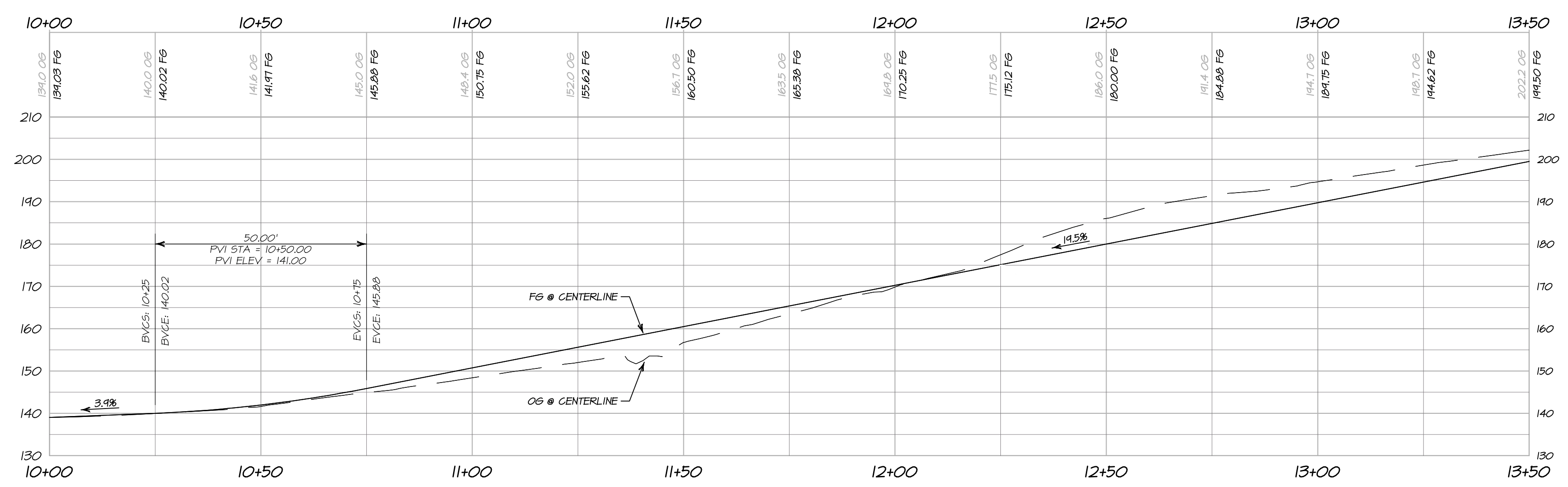
JOB NO: 17-04

SHEET NO: C3

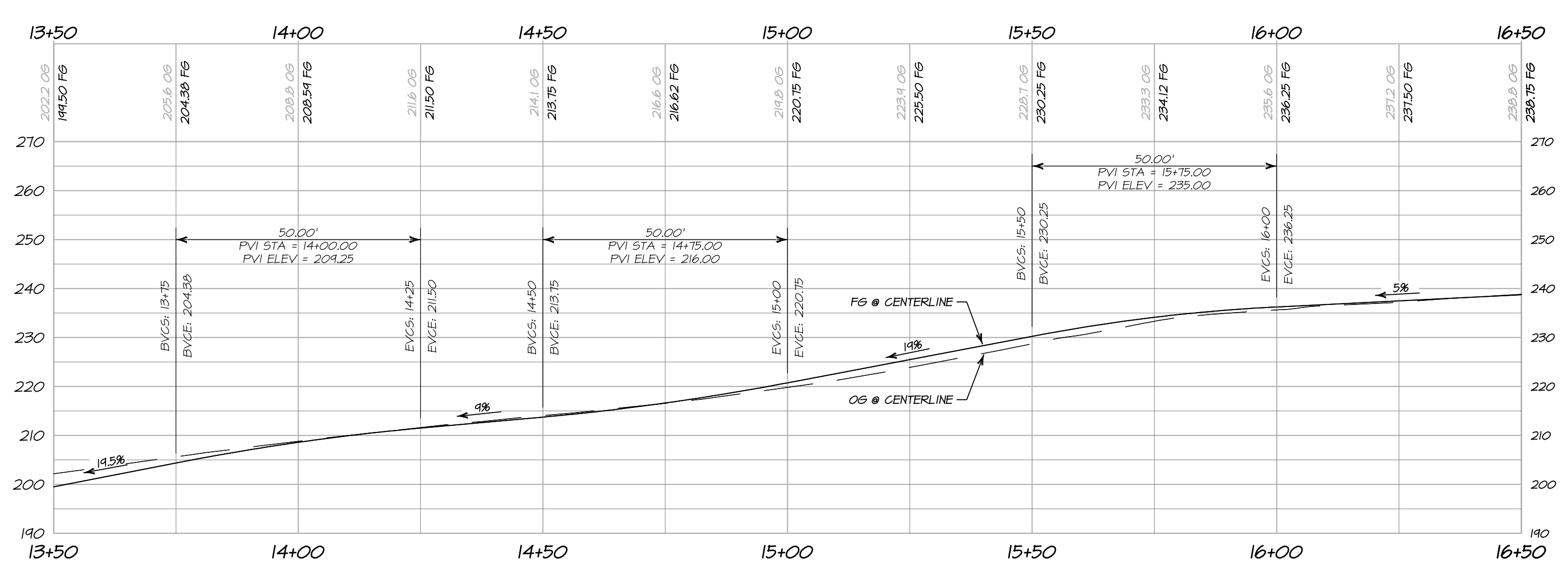
3/12/2018 - 9:42 PM 1611P 51LAND PROJECT192003-20171124007 IMP ROADACADRELANS104-IMP.DWG C4-PLAN & PROFILE, ARCH FULL BLEED D (36.00 X 24.00 INCHES), 1" = 1', PLOTTED @ BARTELT ENGINEERING, 707-258-1301



GRADING & LAYOUT PLAN
SCALE: 1" = 20'



DRIVEWAY PROFILE - STA 10+00 THROUGH 13+50
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 20'



DRIVEWAY PROFILE - STA 13+50 THROUGH 16+50 (END)
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 20'

- LEGEND:**
- GRIND AND OVERLAY EXISTING PAVEMENT (SEE DETAIL)
 - INSTALL HMA (SEE DETAIL)
 - INSTALL TRAFFIC-RATED PCC (SEE DETAIL)
 - TREE 6/15 SAVE EXISTING TREE
 - HB HOSE BIBB
 - TBDIF TO BE DETERMINED IN FIELD
 - WBSO WATER BOOSTER PUMP WITH SIDE OPENING
 - ALIGNMENT STATION
 - ALIGNMENT GEOMETRY LOCATION

GRADING NOTES:

1. REFER TO THE GEOTECHNICAL INVESTIGATION REPORT FOR OVER EXCAVATION, FILL PLACEMENT AND SUBSURFACE DRAINAGE RECOMMENDATIONS.
2. ALL TRANSITIONS AND GRADE BREAKS SHALL BE GRADED WITH A SMOOTH CURVE AND BE APPROVED BY THE ENGINEER IN THE FIELD.
3. ADJUST ALL UTILITY BOX LIDS TO NEW FINISH GRADE. ALL UTILITY BOXES AND LIDS ARE TO BE TRAFFIC-RATED IN ALL PAVED OR CONCRETE AREAS.
4. CONTRACTOR IS RESPONSIBLE FOR APPROPRIATE APPLICATION AND MAINTENANCE OF EROSION CONTROL MEASURES, INCLUDING SEDIMENT BARRIERS, SEEDING AND EROSION CONTROL BLANKETS. CONTRACTOR IS RESPONSIBLE TO TAKE APPROPRIATE ACTIONS TO PREVENT EROSION FOR THE DURATION OF THE PROJECT. EROSION CONTROL MEASURES ARE SUBJECT TO APPROVAL BY NAPA COUNTY, BARTELT ENGINEERING AND THE OWNER. SEE EROSION CONTROL DETAILS.
5. INSTALL NORTH AMERICAN GREEN BIONET G25BN EROSION CONTROL BLANKET OVER SEED ON ALL SLOPES 4:1 OR STEEPER.
6. SHOULDER AND/OR TOE OF SLOPE TO BE ROCK-LINED (SEE DETAIL).
7. CONTRACTOR SHALL FIELD VERIFY STORM DRAIN FLOWLINE, INVERT AND RIM ELEVATIONS PRIOR TO ORDERING STORM DRAIN STRUCTURES.

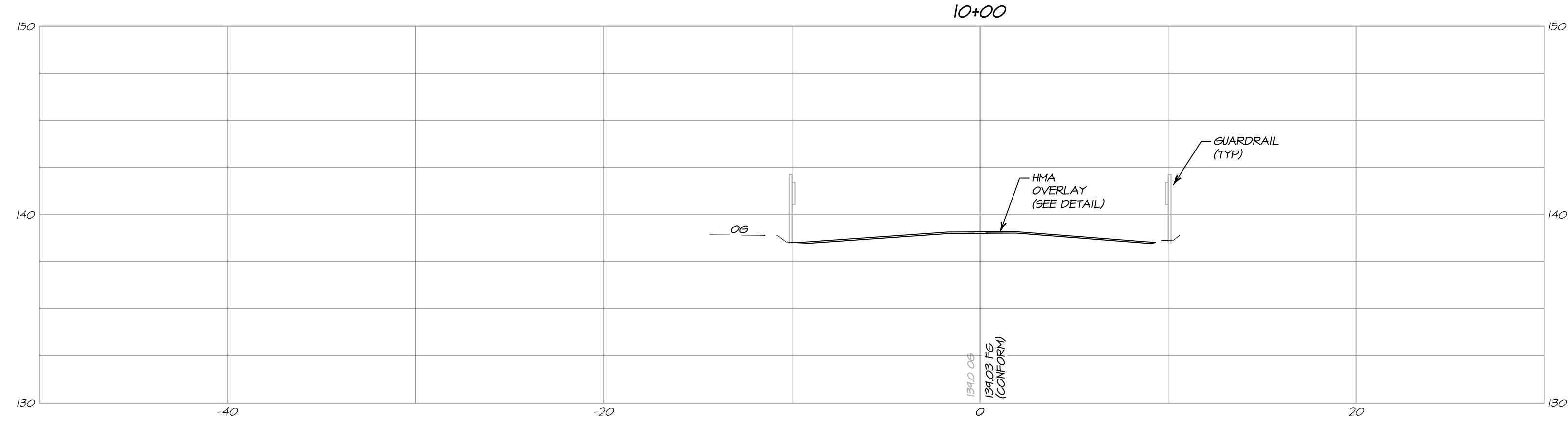
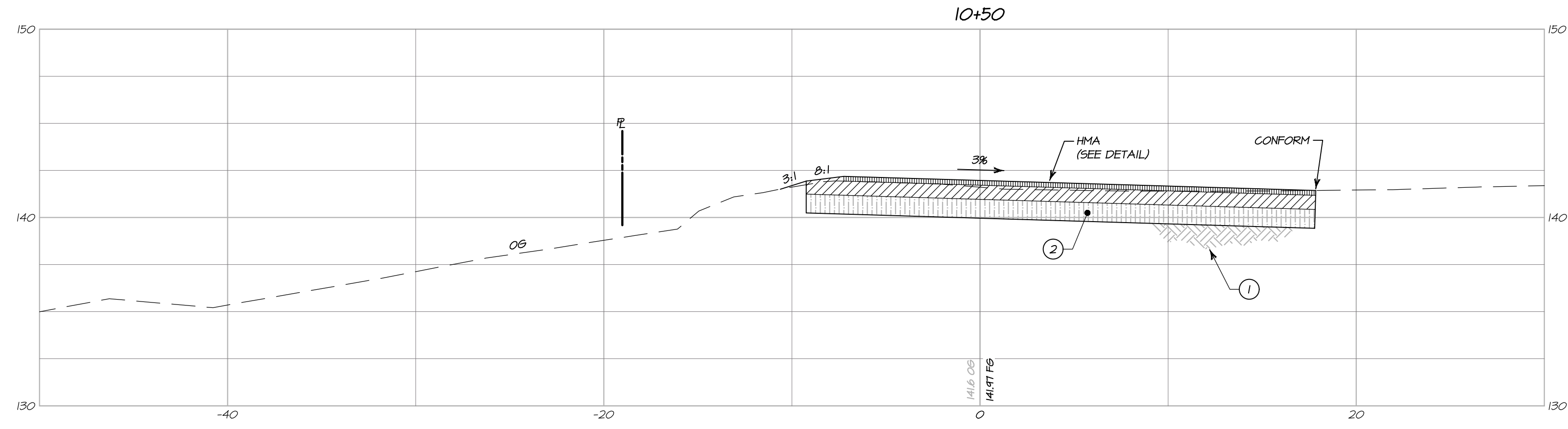
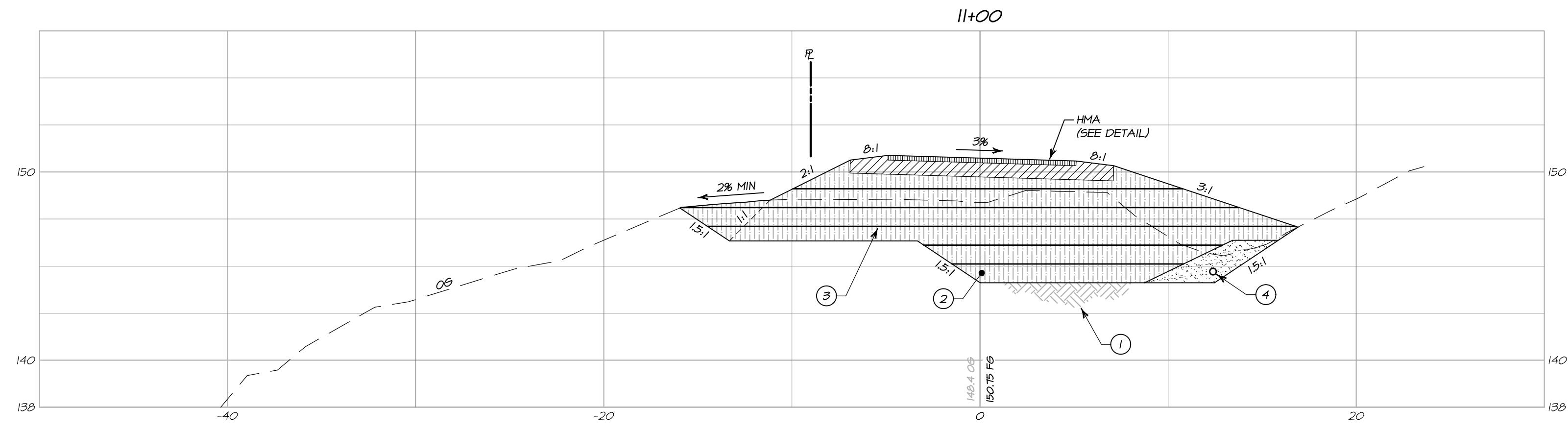
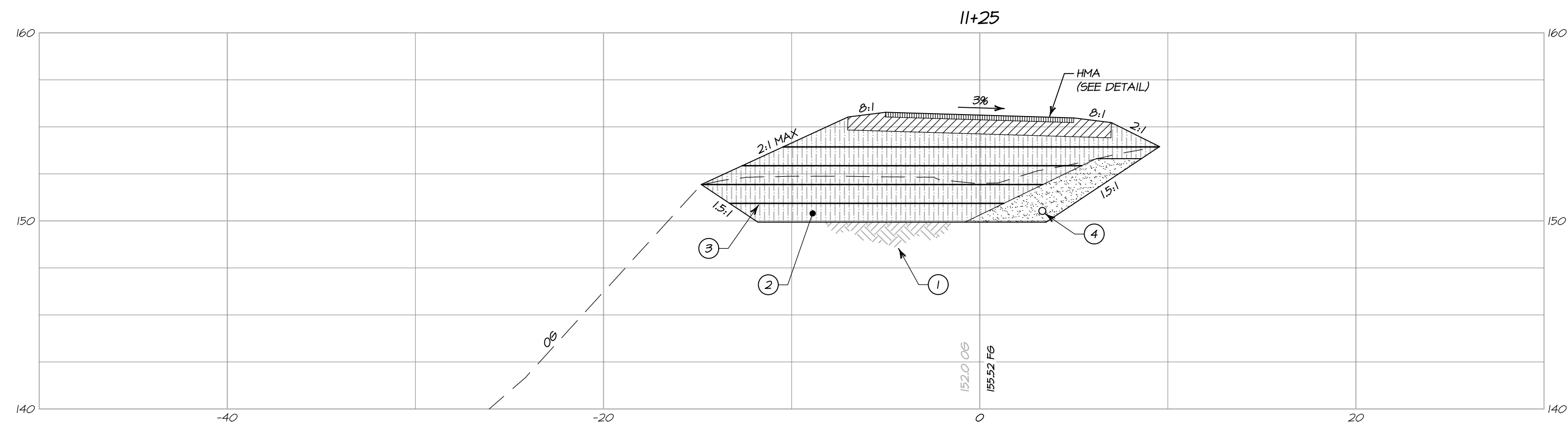


PREPARED UNDER THE DIRECTION OF
PAUL N. BARTELT
R.C.E. 45102

NO.	DATE	DESCRIPTION	BY
1	02-26-18	STORY DRAIN REVISION	KP

GRADING & LAYOUT PLAN AND PROFILE
CARDEY RESIDENCE
 NAPA COUNTY CALIFORNIA

BARTELT ENGINEERING
 CIVIL ENGINEERING - LAND PLANNING
 1303 Jefferson Street, 200 B, Napa, CA 94559
 www.barteltengineering.com
 Telephone: 707-258-1301



**CROSS SECTIONS
STA 10+00 - STA 11+25**

HORIZONTAL SCALE: 1" = 5'
VERTICAL SCALE: 1" = 5'

SECTION NOTES:

- ① SCARIFY AND RECOMPACT AT LEAST SIX (6) INCHES OF EXPOSED SUBGRADE TO A MINIMUM OF 90% RELATIVE COMPACTION (SEE GEOTECHNICAL REPORT)
- ② 12 INCHES MINIMUM OF OVER-EXCAVATION AND REPLACE AS ENGINEERED FILL COMPACTED TO 90% MINIMUM RELATIVE COMPACTION WITH UPPER SIX (6) INCHES COMPACTED TO 95% RELATIVE COMPACTION (SEE GEOTECHNICAL REPORT)
- ③ INSTALL TENSAR BX1200 GEOGRID OR APPROVED EQUAL PER MANUFACTURER'S REQUIREMENTS
- ④ INSTALL KEYWAY SUBDRAIN (SEE DETAIL AND GEOTECHNICAL REPORT)



PREPARED UNDER THE DIRECTION OF

PAUL N. BARTELT R.C.E. 45102

NO.	DATE	DESCRIPTION	BY
02-26-18		NO CHANGE TO THIS SHEET	KP

OWNERSHIP OF DOCUMENTS
THIS DRAWING IS THE PROPERTY OF BARTELT ENGINEERING AND SHALL NOT BE REPRODUCED, COPIED, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT THE WRITTEN PERMISSION OF BARTELT ENGINEERING. ALL CHANGES TO THE PLANS MADE BY ANY OTHER PARTY SHALL BE THE RESPONSIBILITY OF THAT PARTY. THE CLIENT OF BARTELT ENGINEERING AND MAY BE DISTRIBUTED TO CONTRACTORS AND SUBCONTRACTORS FOR THE PROJECT. THIS DRAWING REPRESENTS THE LATEST INFORMATION RELATIVE TO THE PROJECT.
© COPYRIGHT 2018. ALL RIGHTS RESERVED.

DES: PNB / RP
DRAWN: KP
CHECK: PNB

BARTELT ENGINEERING
CIVIL ENGINEERING - LAND PLANNING
1303 Jefferson Street, 200 B, Napa, CA 94559
www.barteltengineering.com
Telephone: 707-258-1301

CALIFORNIA

CARDEY RESIDENCE
CROSS SECTIONS
STA 10+00 - 11+25

NAPA COUNTY

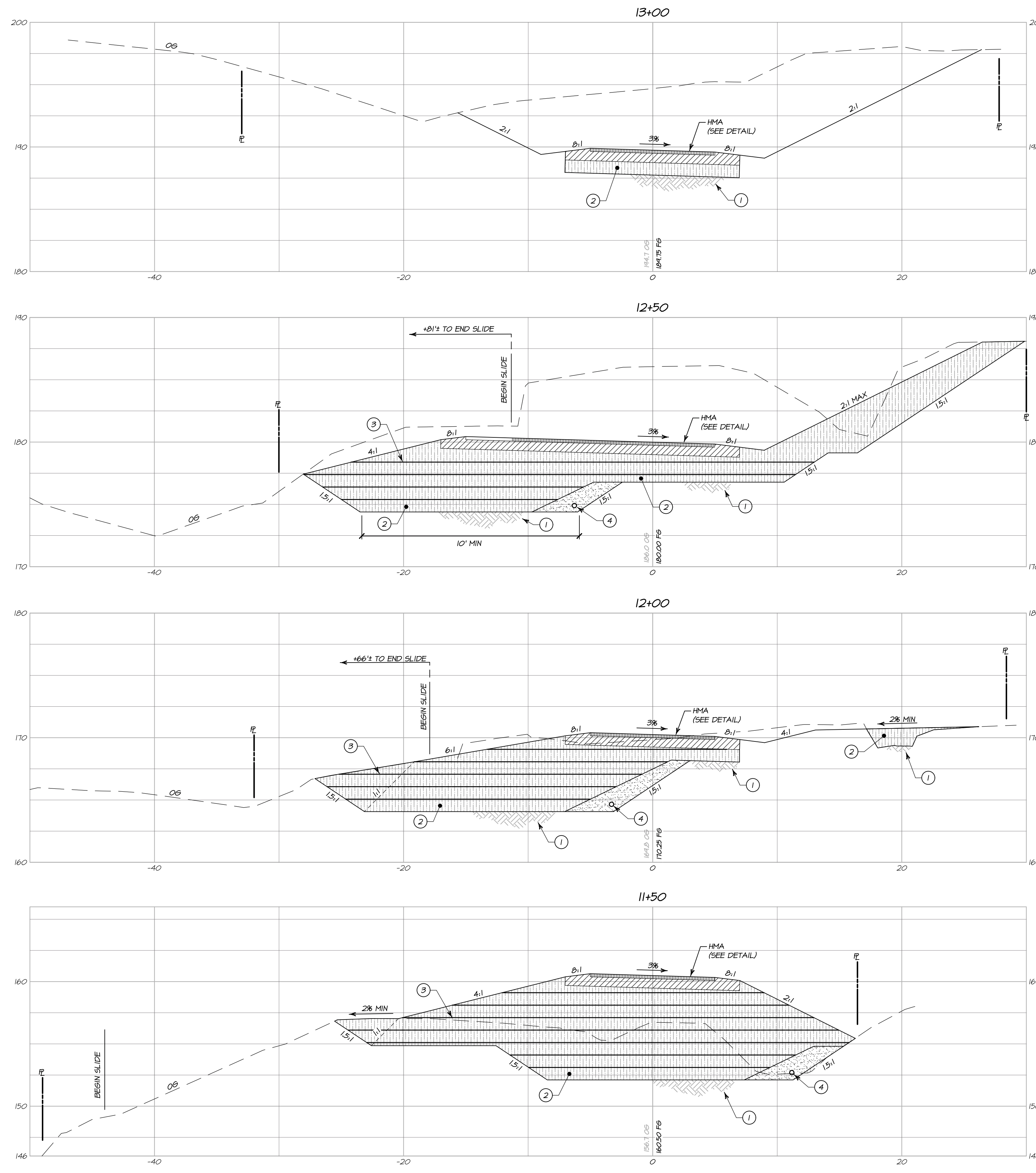
DATE: NOVEMBER 2017

JOB NO: 17-04

SHEET NO:

C5
OF 11

9/12/2018 - 9:42 PM I:\NAP\5\LAND PROJECTS\2018-2017\10+00\10+00 CROSS SECTIONS 10+00 - 11+25.dwg (10+00 - 11+25) PLOTTED @ BARTELT ENGINEERING 10/17/2018 10:10:00



**CROSS SECTIONS
STA 11+50 - STA 13+00**

HORIZONTAL SCALE: 1" = 5'
VERTICAL SCALE: 1" = 5'

- SECTION NOTES:**
- ① SCARIFY AND RECOMPACT AT LEAST SIX (6) INCHES OF EXPOSED SUBGRADE TO A MINIMUM OF 90% RELATIVE COMPACTION (SEE GEOTECHNICAL REPORT)
 - ② 12 INCHES MINIMUM OF OVER-EXCAVATION AND REPLACE AS ENGINEERED FILL COMPACTED TO 90% MINIMUM RELATIVE COMPACTION WITH UPPER SIX (6) INCHES COMPACTED TO 95% RELATIVE COMPACTION (SEE GEOTECHNICAL REPORT)
 - ③ INSTALL TENSAR BX1200 GEOGRID OR APPROVED EQUAL PER MANUFACTURER'S REQUIREMENTS
 - ④ INSTALL KEYWAY SUBDRAIN (SEE DETAIL AND GEOTECHNICAL REPORT)

NO.	DATE	DESCRIPTION	BY
02-26-18		NO CHANGE TO THIS SHEET	KP



PREPARED UNDER THE DIRECTION OF
PAUL N. BARTELT R.C.E. 45102

OWNERSHIP OF DOCUMENTS
DES: PNB / RP
DRAWN: KP
CHECK: PNB
© COPYRIGHT 2018. ALL RIGHTS RESERVED.

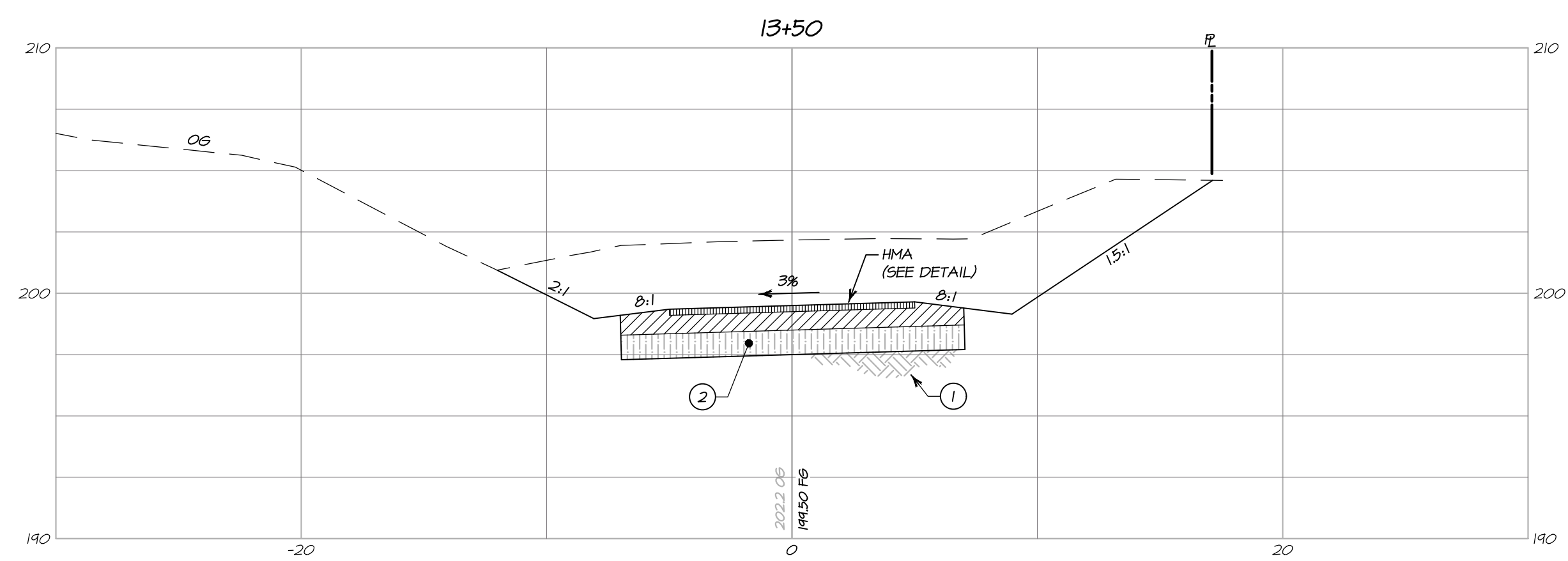
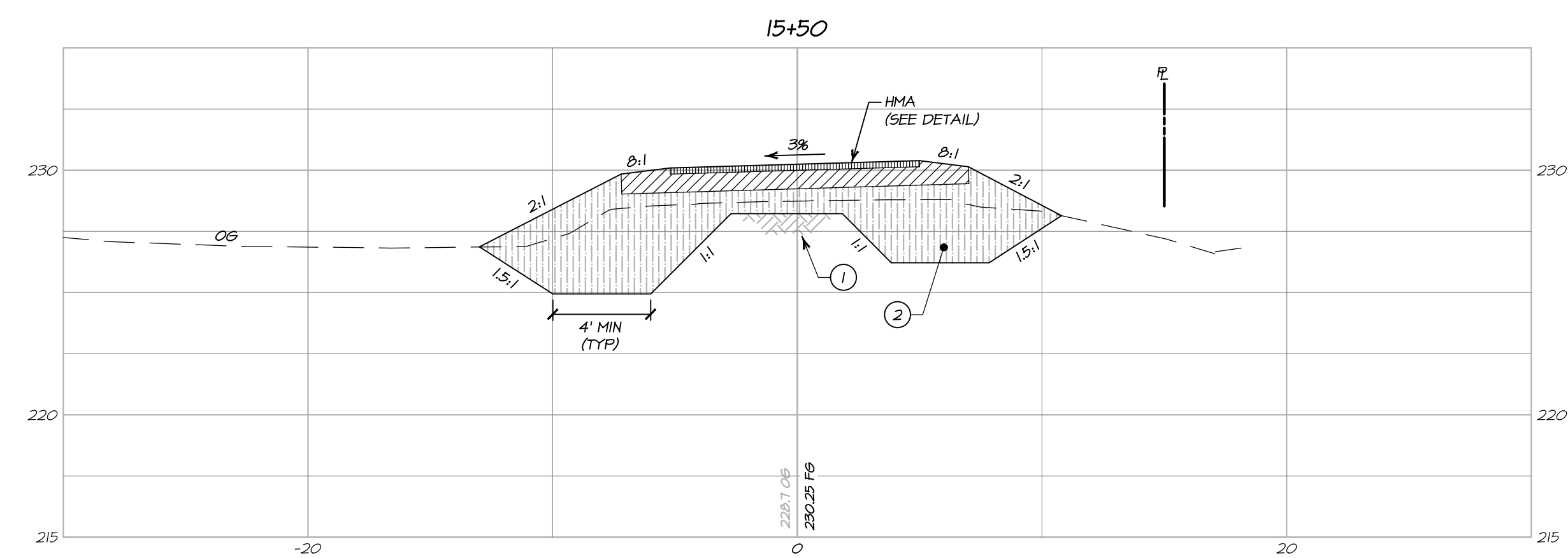
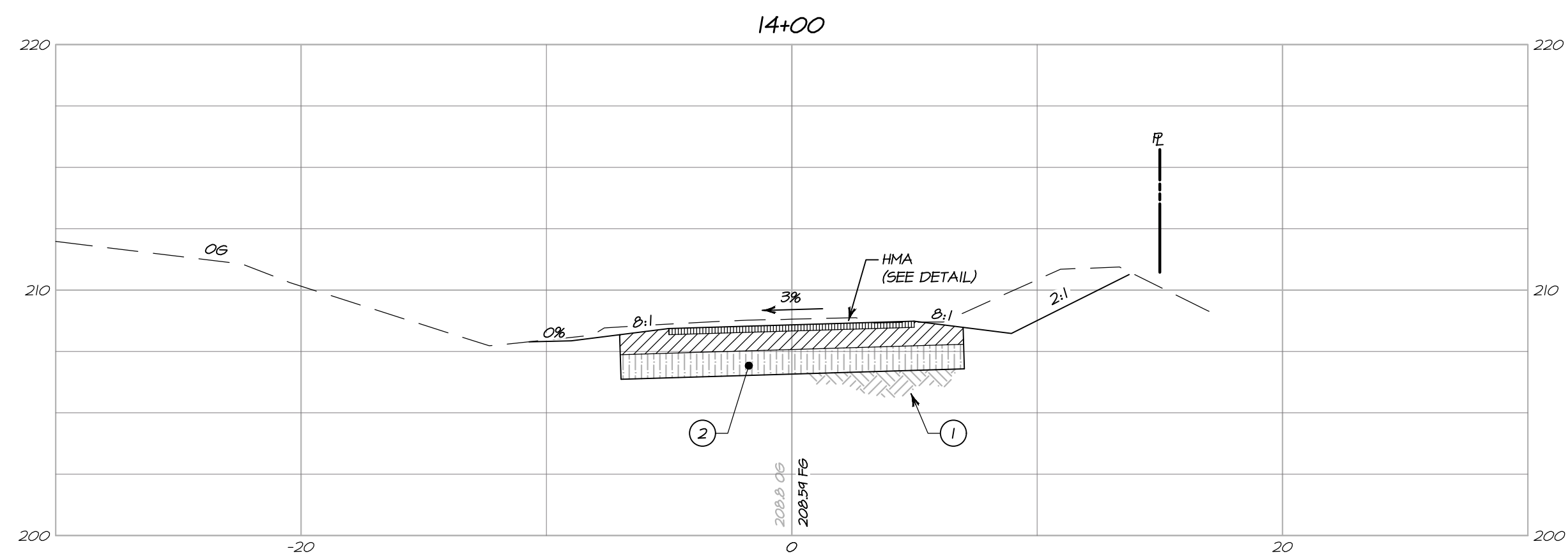
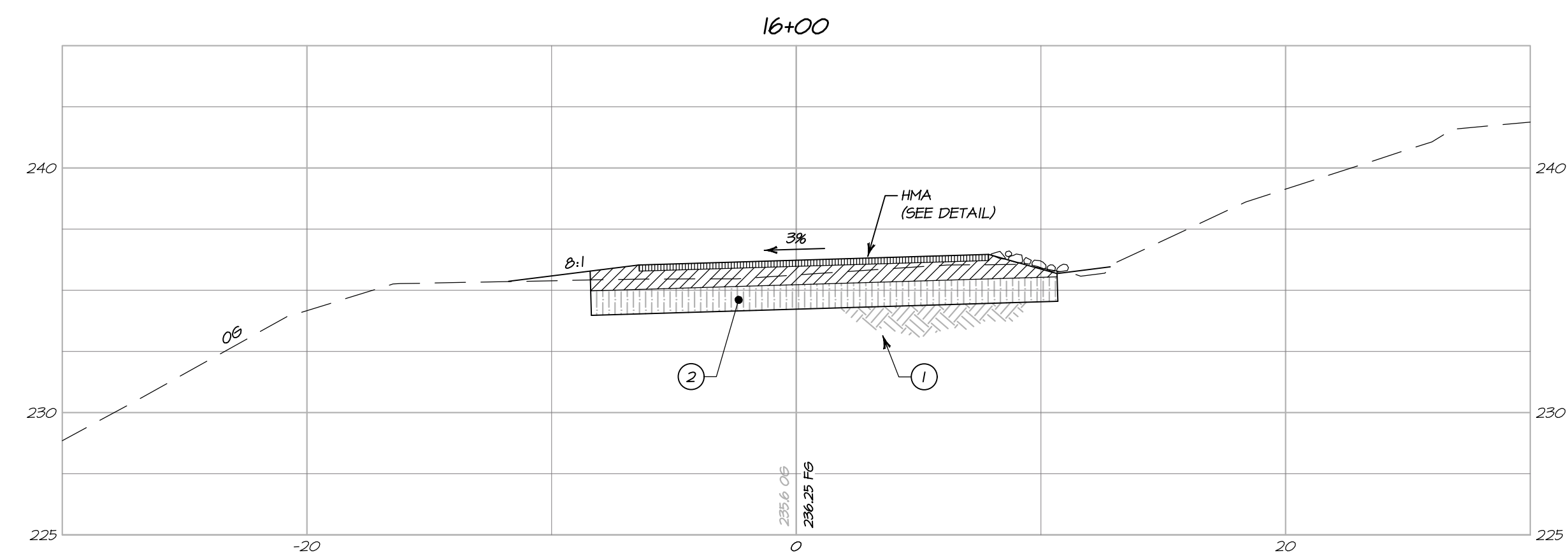
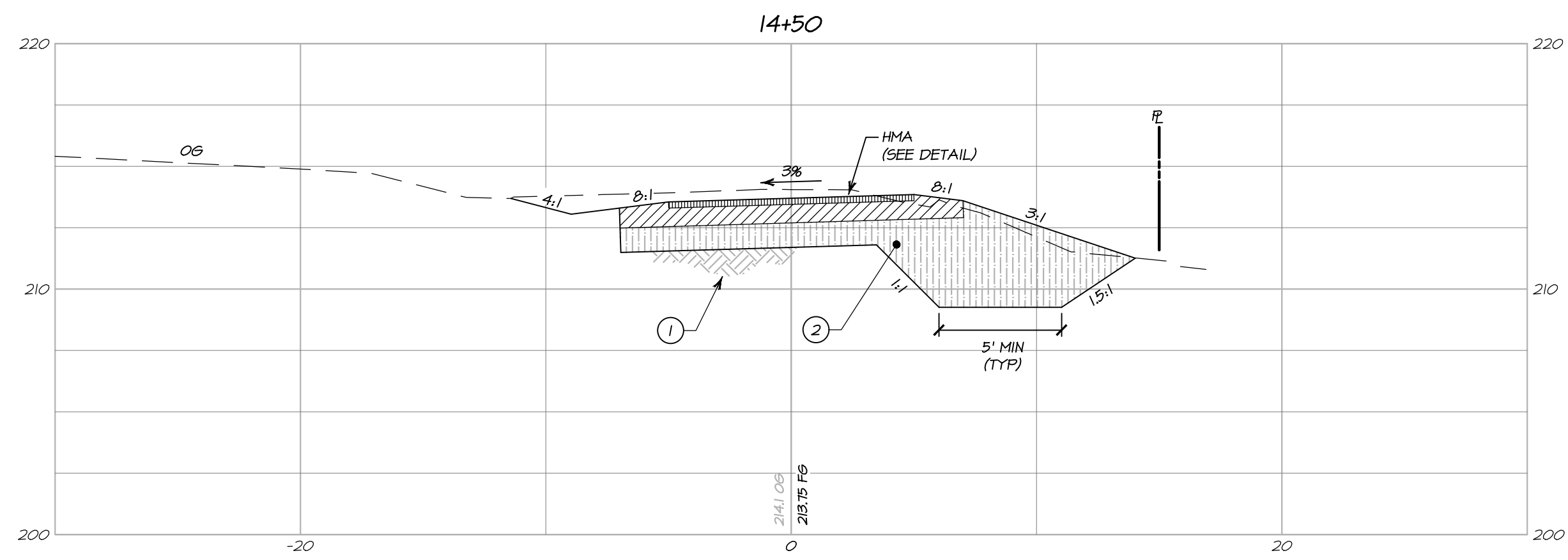
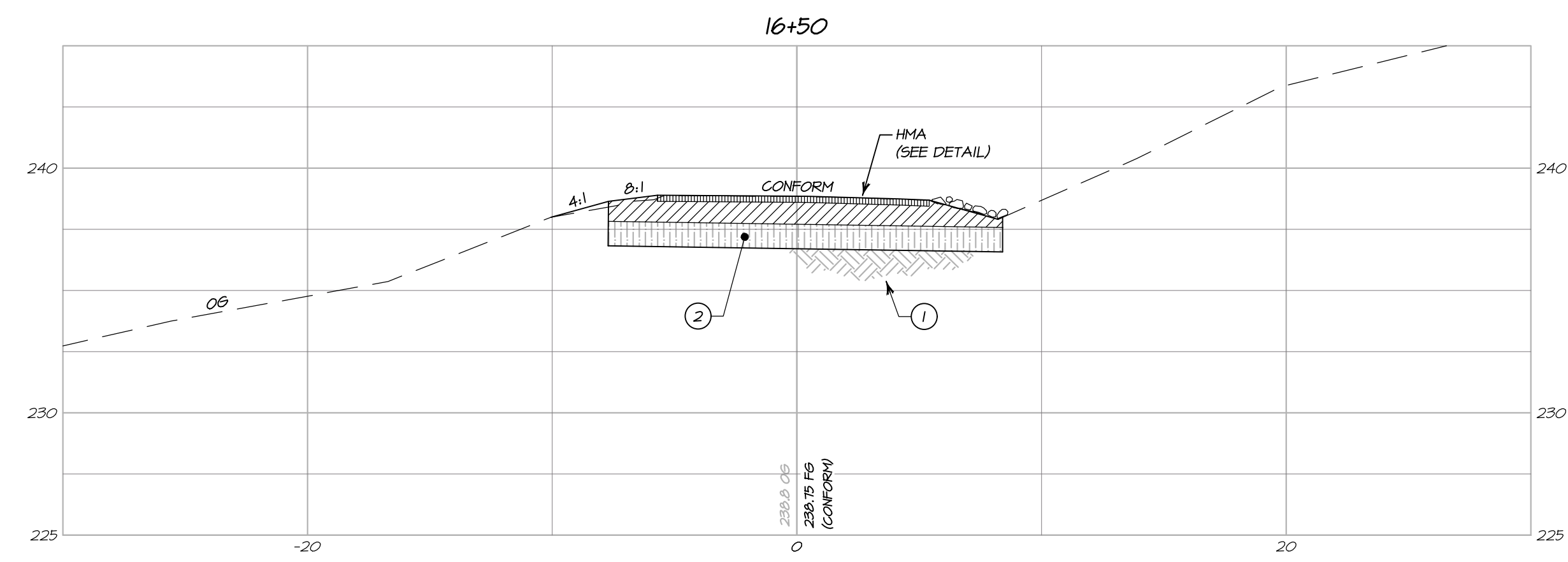
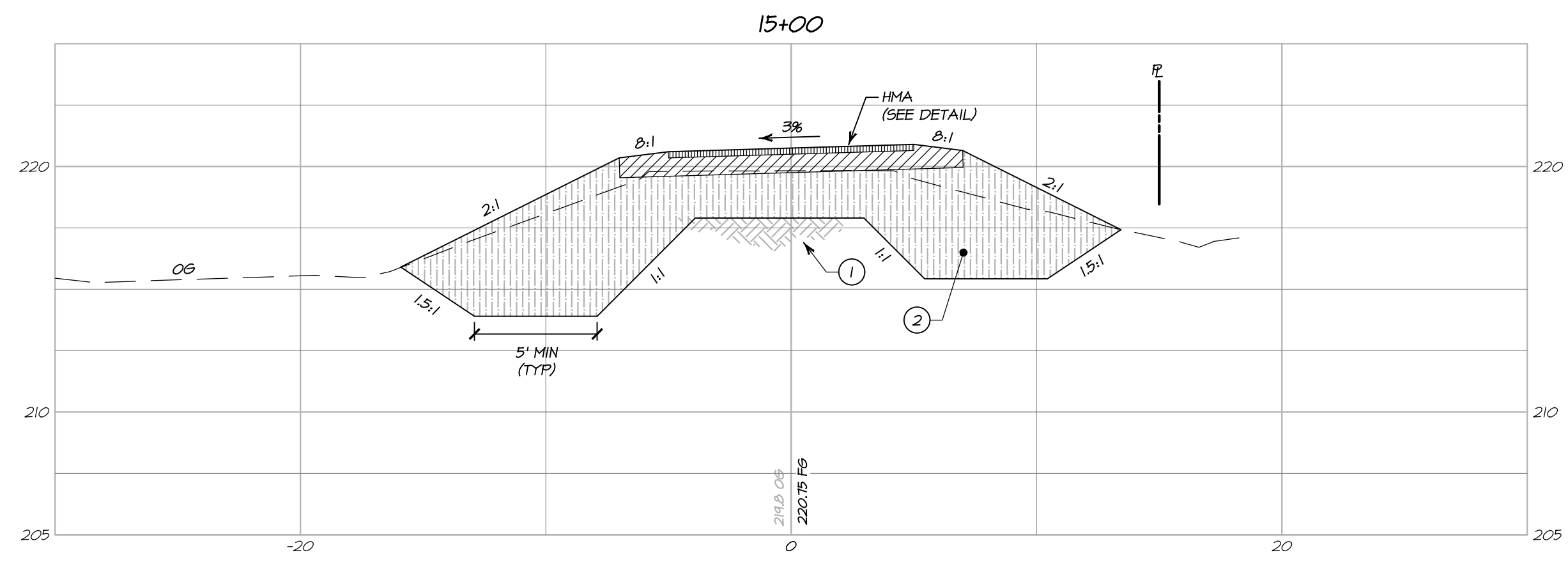
BARTELT ENGINEERING
CIVIL ENGINEERING - LAND PLANNING
1303 Jefferson Street, 200 B, Napa, CA 94559
www.barteltengineering.com
Telephone: 707-258-1301

**CARDEY RESIDENCE
CROSS SECTIONS
STA 11+50 - 13+00**

NAPA COUNTY CALIFORNIA

DATE: NOVEMBER 2017
JOB NO: 17-04
SHEET NO:
C6
OF 11

9/12/2018 - 9:41 PM K:\WP 5\LAND PROJECTS\150009-2017\104001\WP ROAD\CAD\PLANS\1040-18_ARCH FILL BLEED D\186000 X 24.00 INCHES\1" = 1" PLOTTED # BARTELT ENGINEERING 707-258-1301



SECTION NOTES:

- ① SCARIFY AND RECOMPACT AT LEAST SIX (6) INCHES OF EXPOSED SUBGRADE TO A MINIMUM OF 90% RELATIVE COMPACTION (SEE GEOTECHNICAL REPORT)
- ② 12 INCHES MINIMUM OF OVER-EXCAVATION AND REPLACE AS ENGINEERED FILL COMPACTED TO 90% MINIMUM RELATIVE COMPACTION WITH UPPER SIX (6) INCHES COMPACTED TO 95% RELATIVE COMPACTION (SEE GEOTECHNICAL REPORT)
- ③ INSTALL TENSAR BX1200 GEOGRID OR APPROVED EQUAL PER MANUFACTURER'S REQUIREMENTS
- ④ INSTALL KEYWAY SUBDRAIN (SEE DETAIL AND GEOTECHNICAL REPORT)

**CROSS SECTIONS
STA 13+50 - STA 16+50**

HORIZONTAL SCALE: 1" = 5'
VERTICAL SCALE: 1" = 5'

NO.	DATE	DESCRIPTION	BY
02-26-18		NO CHANGE TO THIS SHEET	KP



PREPARED UNDER THE DIRECTION OF

PAUL N. BARTELT R.C.E. 45102

OWNERSHIP OF DOCUMENTS
THIS DOCUMENT IS THE PROPERTY OF BARTELT ENGINEERING AND IS NOT TO BE USED IN WHOLE OR IN PART FOR ANY OTHER PROJECT WITHOUT THE WRITTEN PERMISSION OF BARTELT ENGINEERING. ALL CHANGES TO THE PLANS MADE BY ANY OTHER PARTY SHALL BE THE RESPONSIBILITY OF THAT PARTY. THE CLIENT OF BARTELT ENGINEERING AND NOT BARTELT ENGINEERING SHALL BE RESPONSIBLE FOR VERIFYING THE ACCURACY OF THE DATA AND INFORMATION PROVIDED TO BARTELT ENGINEERING. BARTELT ENGINEERING SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS IN THE PLANS OR FOR ANY CONSEQUENCES ARISING FROM THE USE OF THESE PLANS. ALL CHANGES TO THE PLANS MADE BY ANY OTHER PARTY SHALL BE THE RESPONSIBILITY OF THAT PARTY. THE CLIENT OF BARTELT ENGINEERING AND NOT BARTELT ENGINEERING SHALL BE RESPONSIBLE FOR VERIFYING THE ACCURACY OF THE DATA AND INFORMATION PROVIDED TO BARTELT ENGINEERING. BARTELT ENGINEERING SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS IN THE PLANS OR FOR ANY CONSEQUENCES ARISING FROM THE USE OF THESE PLANS.

DES: PNB / RP
DRAWN: KP
CHECKED: PNB

BARTELT ENGINEERING
CIVIL ENGINEERING - LAND PLANNING
1303 Jefferson Street, 200 B, Napa, CA 94559
www.barteltengineering.com
Telephone: 707-258-1301

CALIFORNIA

CARDEY RESIDENCE
CROSS SECTIONS
STA 13+50 - 16+50

NAPA COUNTY

DATE: NOVEMBER 2017

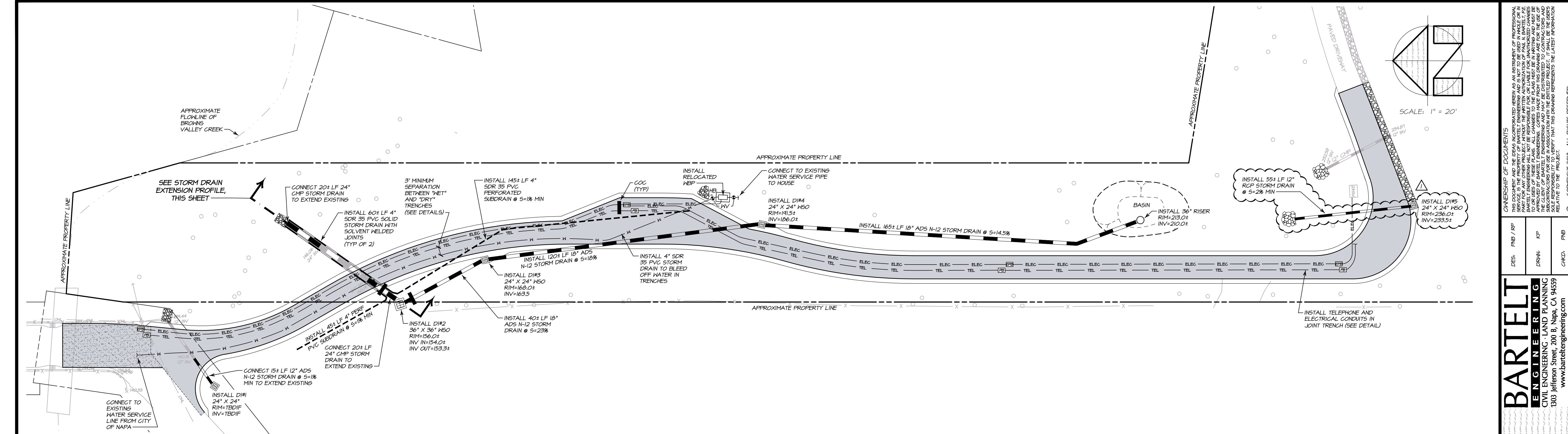
JOB NO: 17-04

SHEET NO:

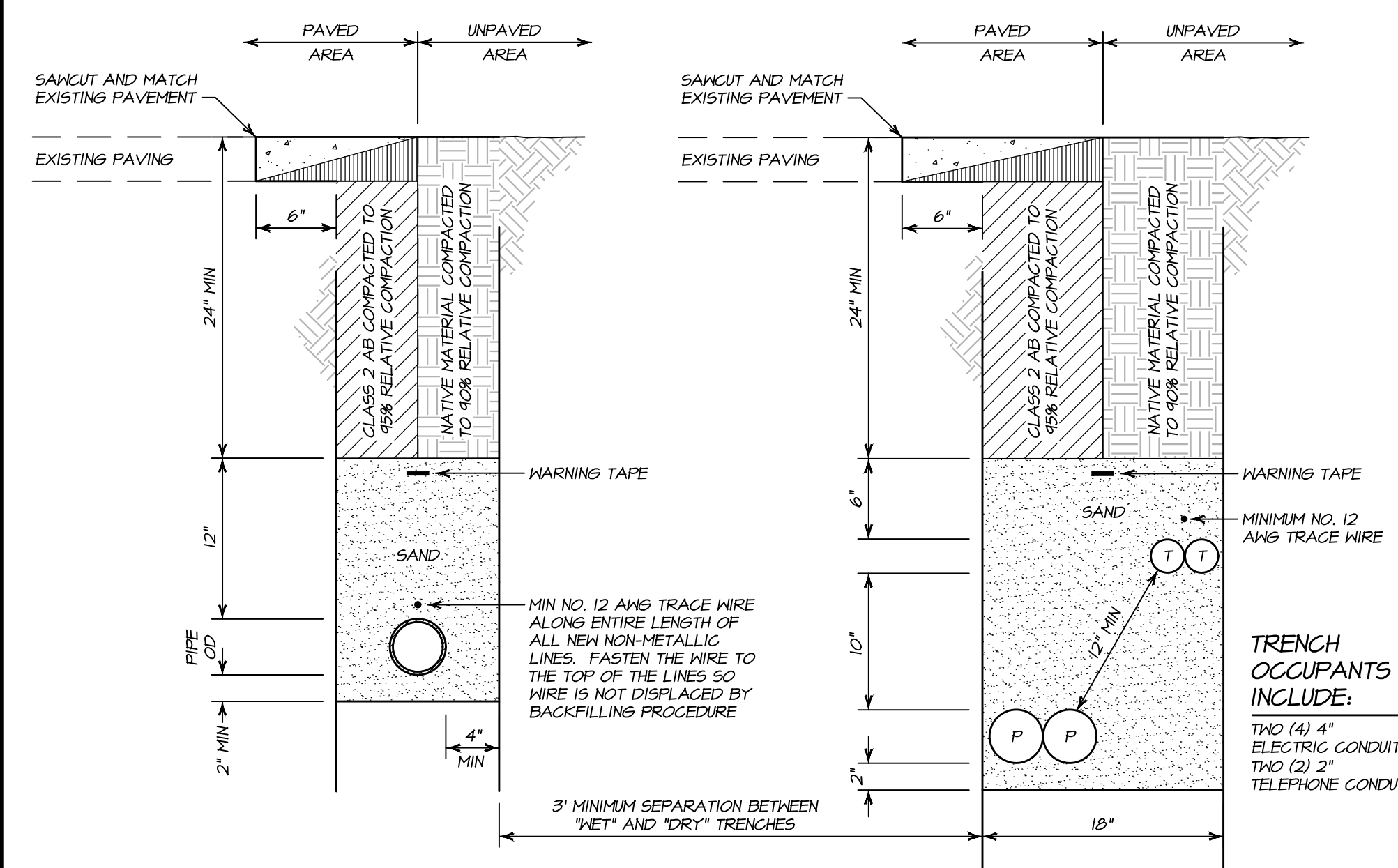
C7

OF 11

9/12/2018 - 9:41 PM K:\165 5\LAND PROJECT\15009-2017\104001\MP\ROAD\CAD\PLANS\104001\MP\1655\SECTION\13+50-16+50\BND_ARCH_FILL_BLEED_D (8K)00 X 24.00 INCHES) 1" = 1" PLOTTED @ BARTELT ENGINEERING 707-258-1301



UTILITY PLAN
SCALE: 1" = 20'

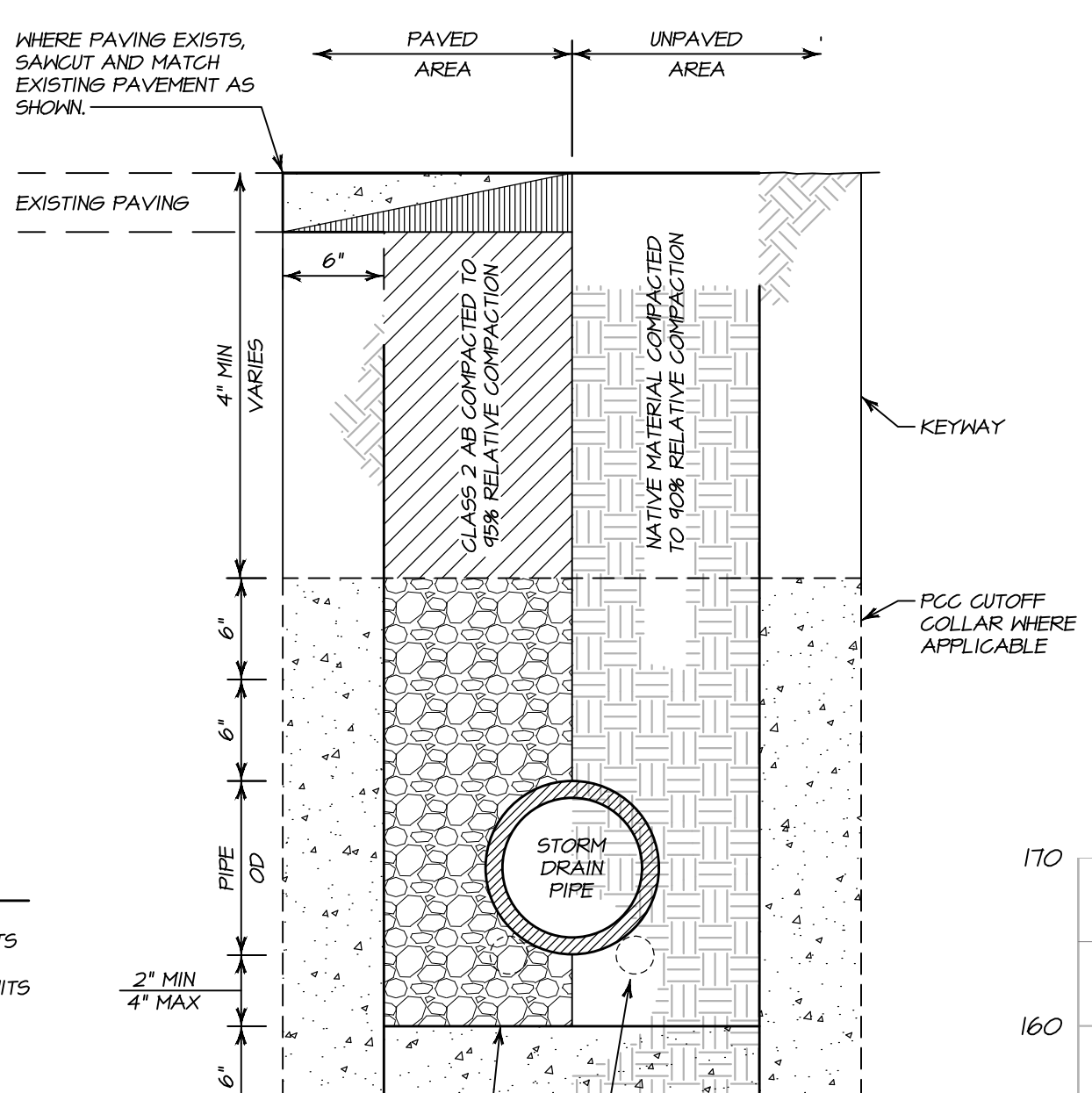


NOTE:
MAINTAIN PROPER SEPARATION BETWEEN PG&E FACILITIES AND "WET" UTILITY LINES AS DESCRIBED IN PG&E UO STANDARD S5453. THE MINIMUM ALLOWABLE HORIZONTAL SEPARATION BETWEEN COMPANY FACILITIES AND "WET" FACILITIES IS THREE (3) FEET WITH A MINIMUM ONE (1) FOOT OF UNDISTURBED EARTH OR THE INSTALLATION OF A SUITABLE BARRIER BETWEEN THE FACILITIES. IF A THREE (3) FEET HORIZONTAL SEPARATION CANNOT BE ATTAINED BETWEEN "WET" UTILITIES AND COMPANY DRY FACILITIES, A VARIANCE MAY BE APPROVED BY LOCAL INSPECTION SUPERVISOR AND SUBMITTED TO THE SERVICE PLANNING SUPPORT PROGRAM MANAGER FOR APPROVAL. SEPARATIONS OF ONE FOOT OR LESS ARE NOT PERMISSIBLE AND WILL NOT BE ALLOWED. THE COMPANY MAY AGREE TO WAIVE THE MINIMUM THREE (3) FEET SEPARATION REQUIREMENT AT THE REQUEST OF AN APPLICANT IF WARRANTED AND THE NEED IS JUSTIFIED. THE REQUEST FOR A WAIVER MUST:

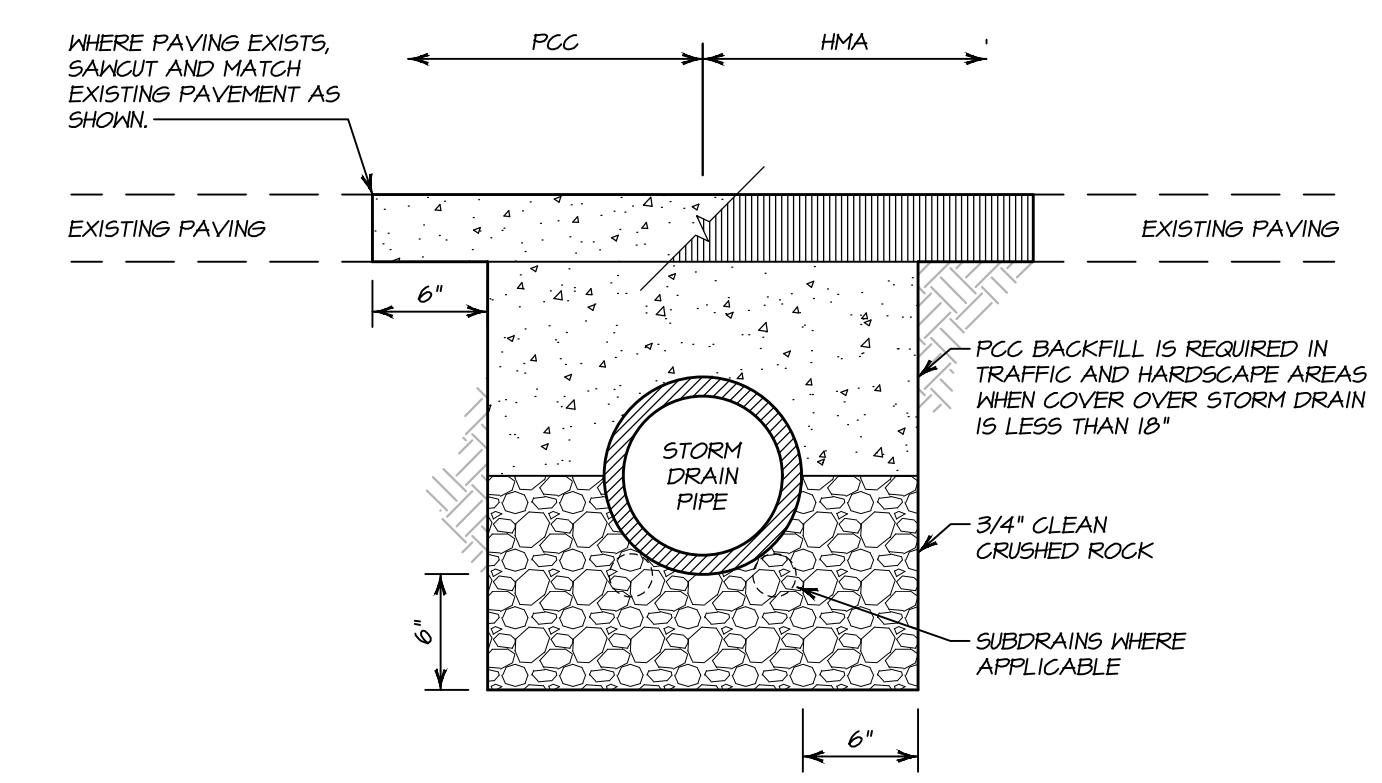
- BE MADE IN WRITINGS AND SUBMITTED TO THE COMPANY DURING THE PLANNING AND DESIGN PHASE OF PROJECT
- CLEARLY DESCRIBE THE CONDITIONS NECESSITATING THE WAIVER
- INCLUDE A PROPOSED DESIGN
- AND, INCLUDE A DESIGN FOR A BARRIER BETWEEN THE "WET" UTILITIES AND COMPANY DRY FACILITIES IN EVENT ONE (1) FOOT OF UNDISTURBED EARTH CANNOT BE MAINTAINED.

WATER TRENCH DETAIL
NO SCALE

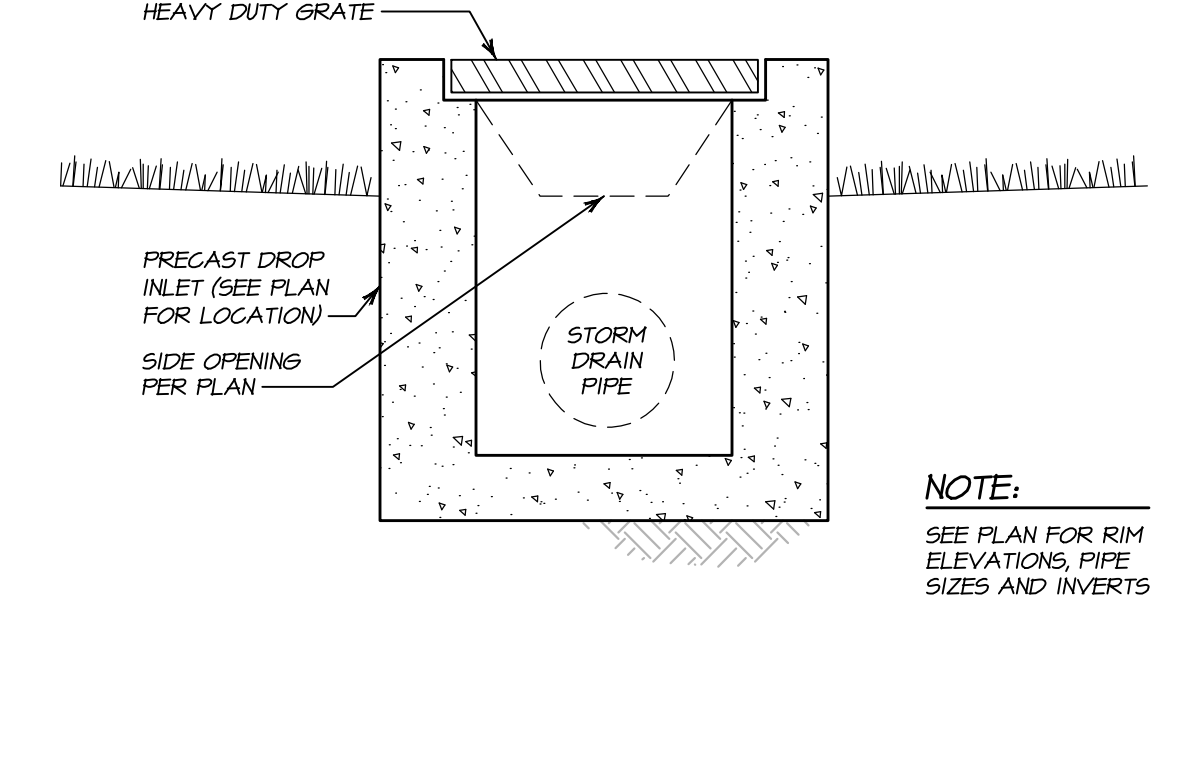
JOINT UTILITY TRENCH DETAIL
NO SCALE



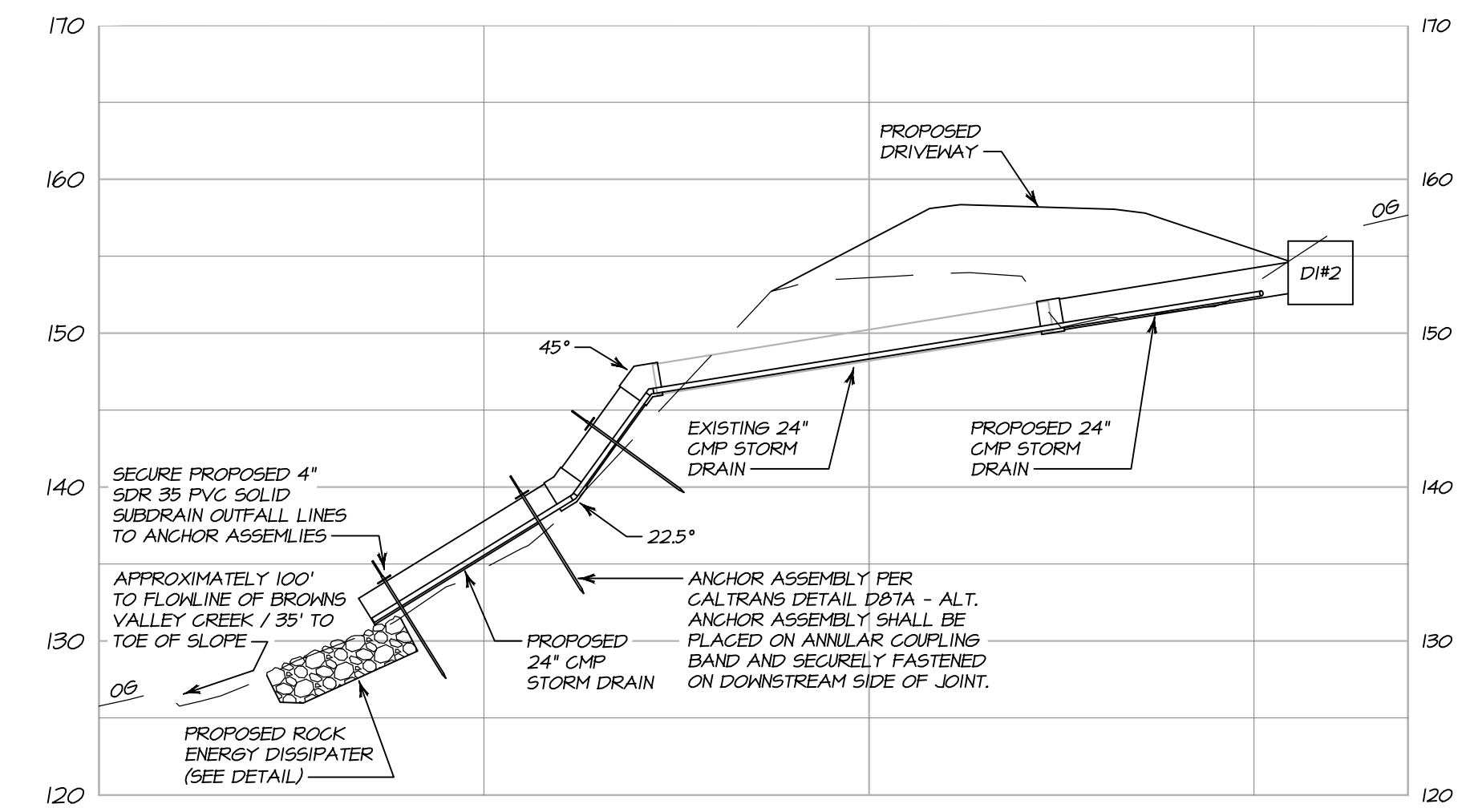
STORM DRAIN TRENCH DETAIL
NO SCALE



SHALLOW BURY STORM DRAIN TRENCH DETAIL
NO SCALE



DRAIN INLET WITH SIDE OPENING DETAIL
NO SCALE



STORM DRAIN EXTENSION PROFILE
SCALE: 1" = 10'

NO.	DATE	DESCRIPTION	BY
02-26-18		STORM DRAIN REVISION	KP



PREPARED UNDER THE DIRECTION OF
PAUL N. BARTELT R.C.E. 45102

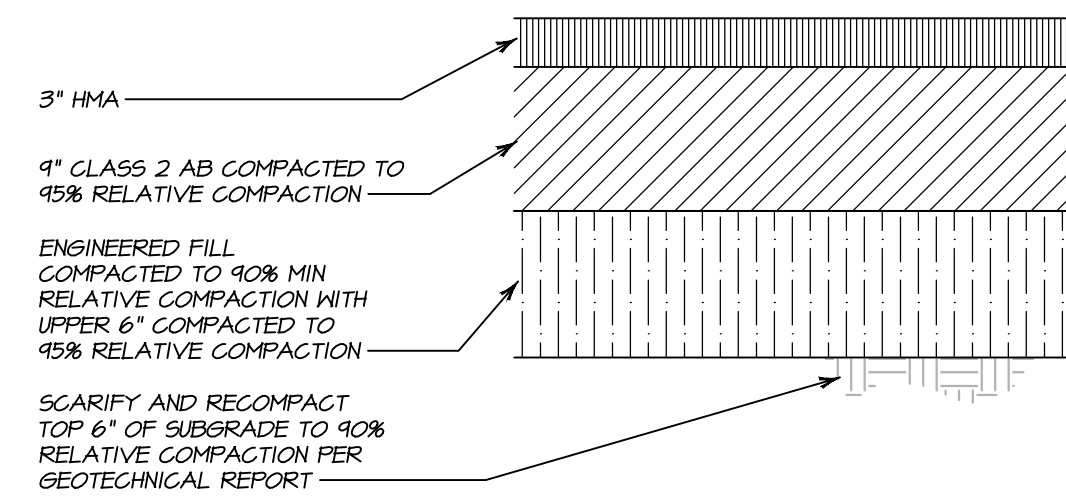
- UTILITY NOTES:**
1. ALL STORM DRAIN PIPE SHALL BE ADS N12 PVC INSTALLED AT A MINIMUM SLOPE OF TEN PERCENT UNLESS OTHERWISE SPECIFIED.
 2. CONTRACTOR SHALL COORDINATE INSTALLATION OF SUBDRAINS WITH THE GEOTECHNICAL ENGINEER PRIOR TO INSTALLATION OF UTILITIES.
 3. CONTRACTOR SHALL FIELD VERIFY STORM DRAIN FLOWLINE, INVERT AND RIM ELEVATIONS PRIOR TO ORDERING STORM DRAIN STRUCTURES.

BARTELT ENGINEERING
CIVIL ENGINEERING - LAND PLANNING
1303 Jefferson Street, 200 B, Napa, CA 94959
www.barteltengineering.com
Telephone: 707-258-1301

CARDEY RESIDENCE UTILITY PLAN

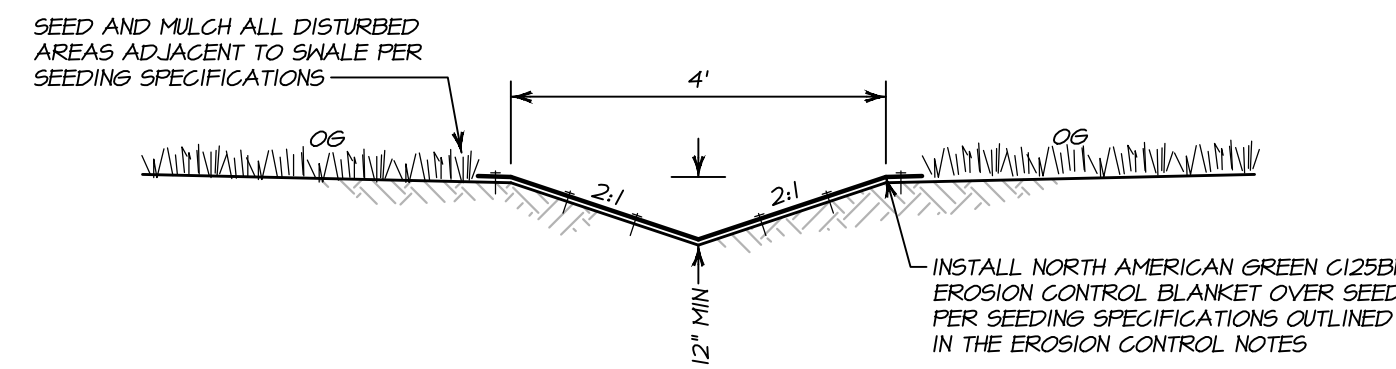
NAPA COUNTY CALIFORNIA

DATE: NOVEMBER 2017
JOB NO: 17-04
SHEET NO: **C8** OF 11



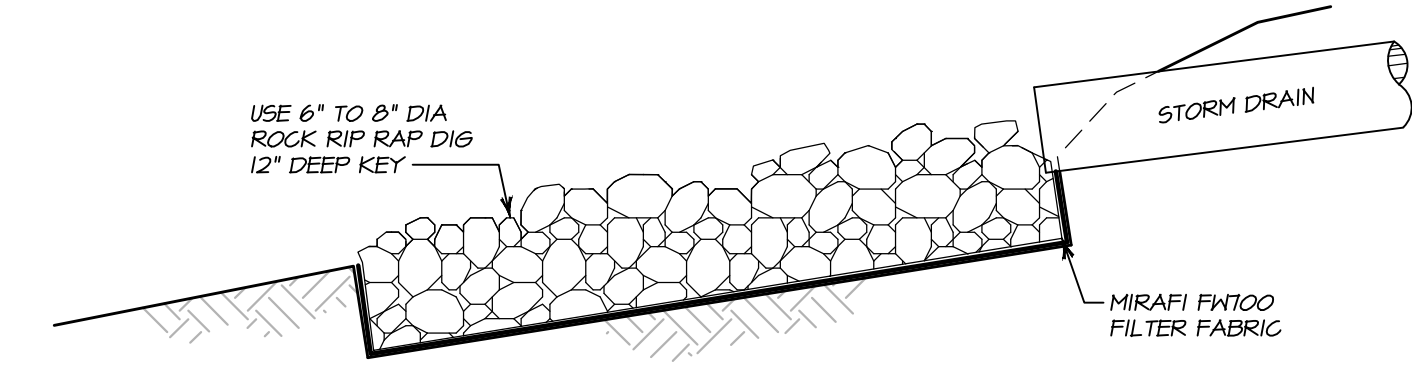
HMA PAVING SECTION

NO SCALE



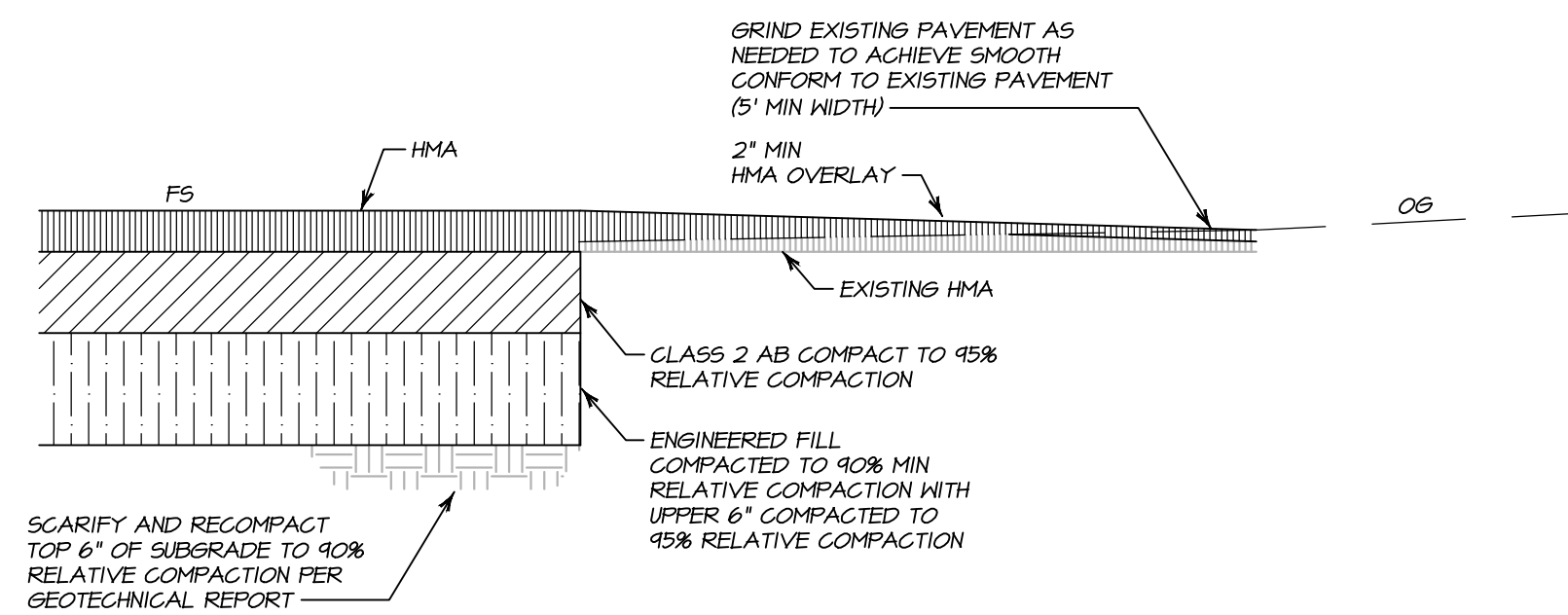
GRASS-LINED SWALE DETAIL

NO SCALE



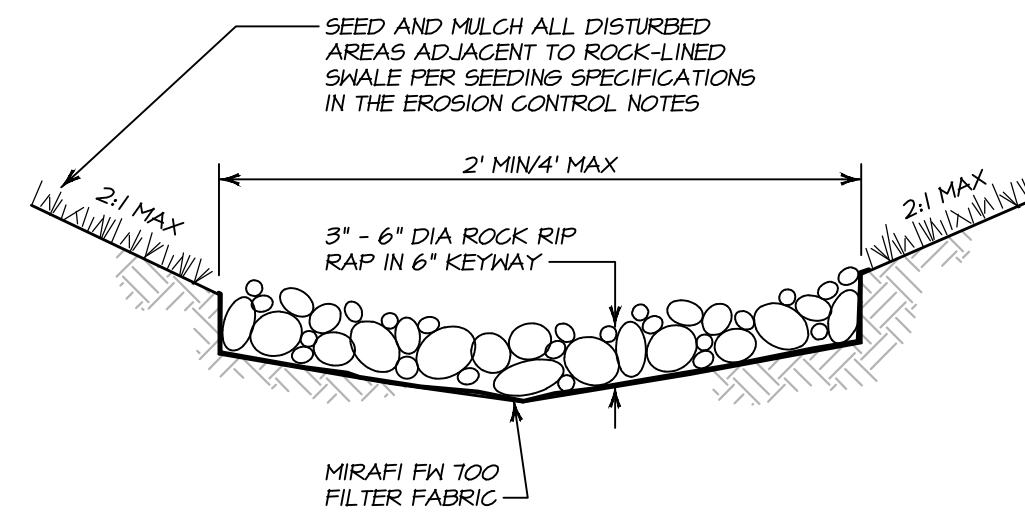
ROCK ENERGY DISSIPATER DETAIL

NO SCALE



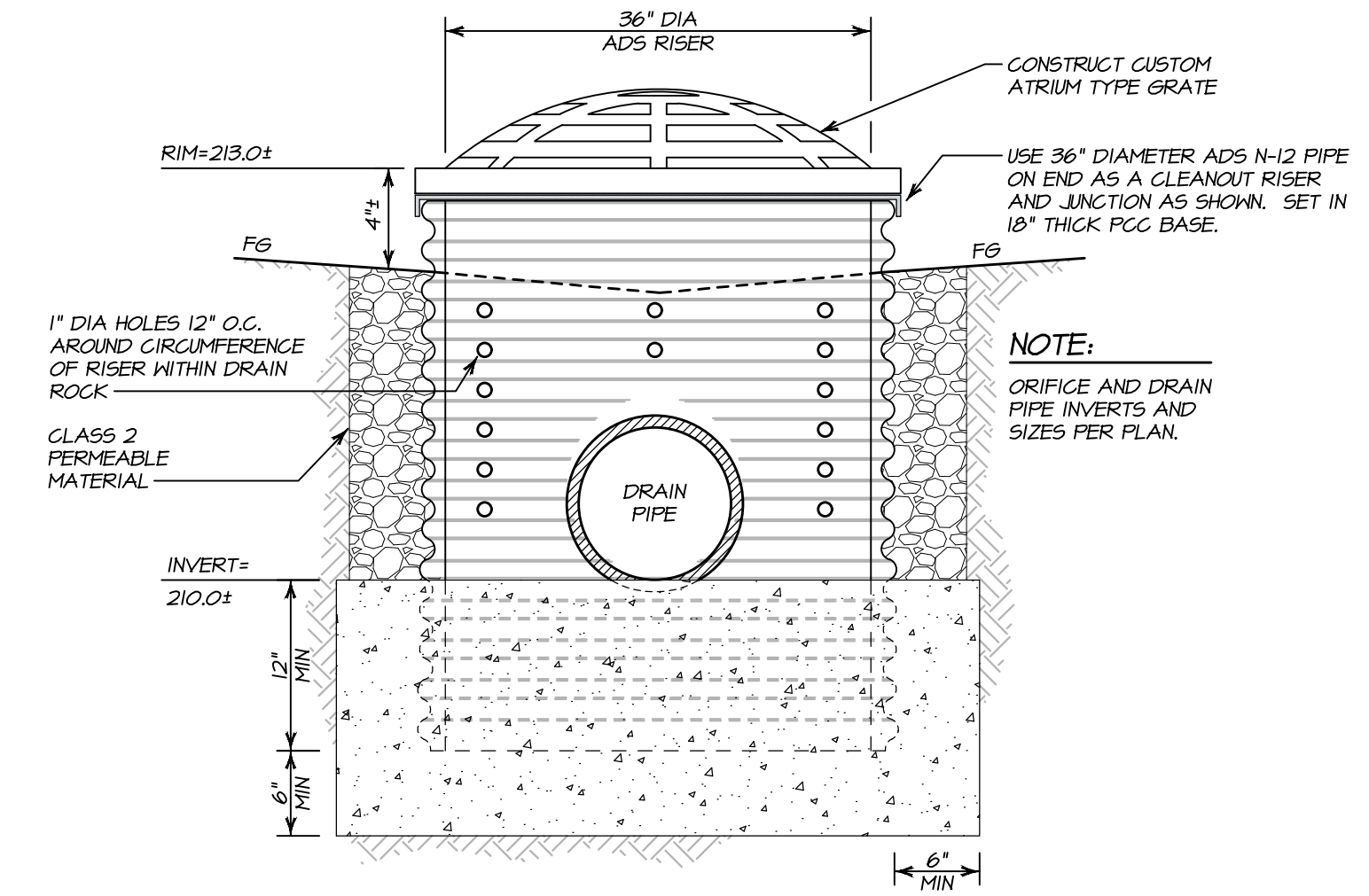
HMA GRIND & OVERLAY DETAIL

NO SCALE



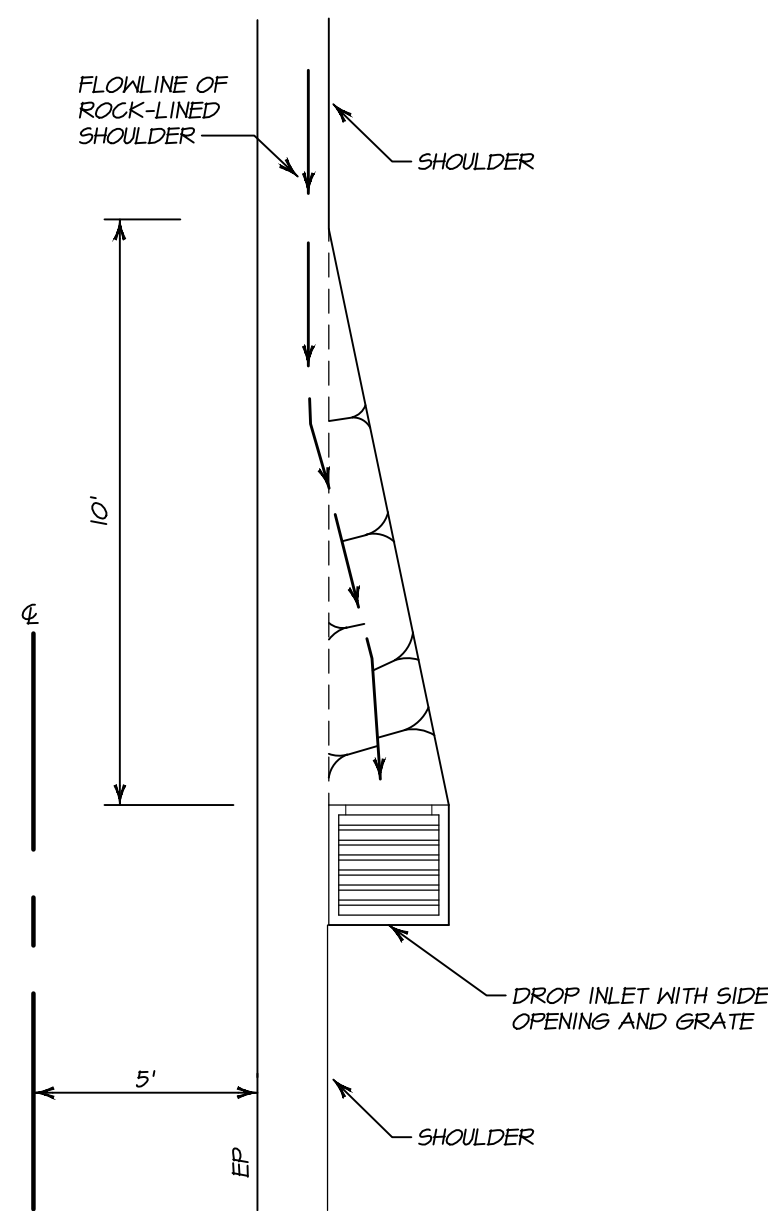
ROCK-LINED SWALE DETAIL

NO SCALE



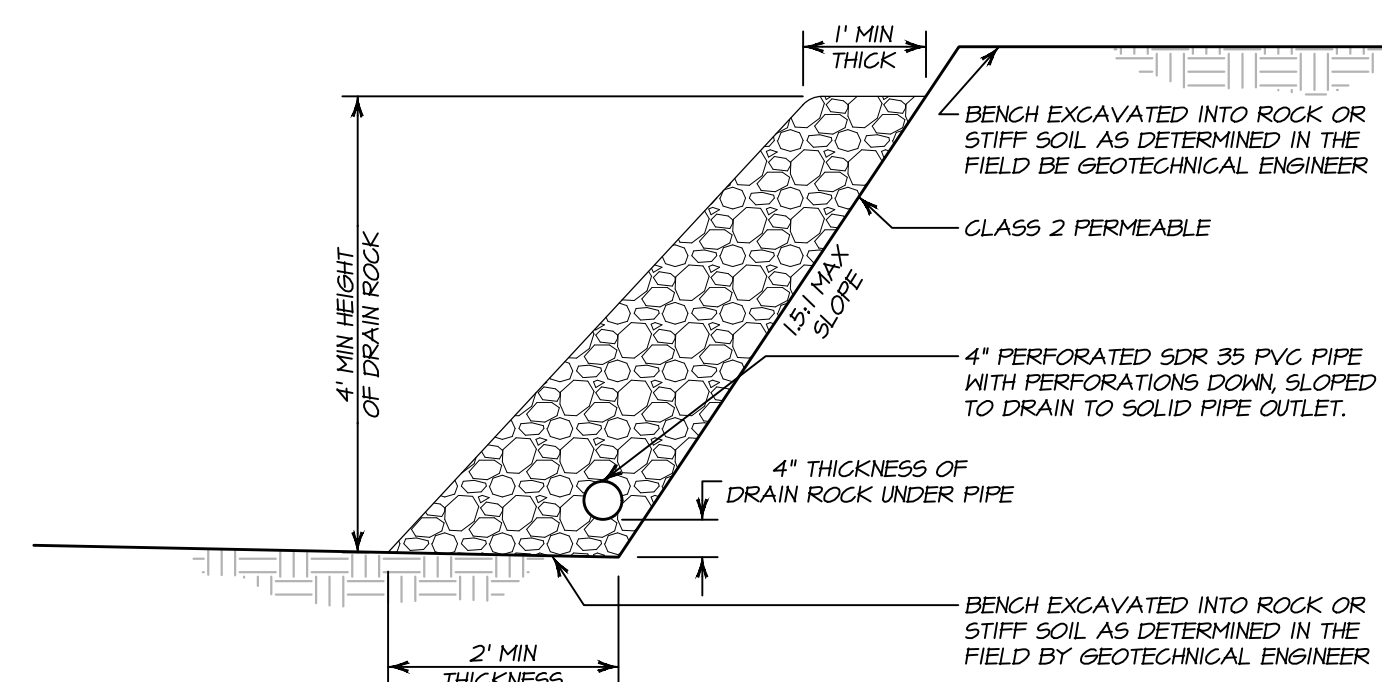
SEDIMENT BASIN DRAIN INLET DETAIL

NO SCALE



DROP INLET WITH SIDE OPENING DETAIL

NO SCALE



KEYWAY SUBDRAIN DETAIL

NO SCALE

NO.	DATE	DESCRIPTION	BY
02-26-10		NO CHANGE TO THIS SHEET	KP



PREPARED UNDER THE DIRECTION OF

PAUL N. BARTELT R.C.E. 45102

OWNERSHIP OF DOCUMENTS
 THIS DRAWING IS THE PROPERTY OF BARTELT ENGINEERING AND SHALL NOT BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM. ANY UNAUTHORIZED REPRODUCTION OR TRANSMISSION OF THIS DRAWING IS STRICTLY PROHIBITED. THE CLIENT OF BARTELT ENGINEERING AND ANY OTHER PARTY USING THIS DRAWING SHALL BE RESPONSIBLE TO VERIFY THAT THIS DRAWING REPRESENTS THE LATEST INFORMATION RELATIVE TO THE PROJECT.
 © COPYRIGHT 2010. ALL RIGHTS RESERVED.

DES: PNB / RP
 DRAWN: KP
 CHECK: PNB

BARTELT ENGINEERING
 CIVIL ENGINEERING - LAND PLANNING
 1303 Jefferson Street, 200 B, Napa, CA 94559
 www.barteltengineering.com
 Telephone: 707-258-1301

CALIFORNIA

CARDEY RESIDENCE
 DETAIL SHEET

NAPA COUNTY

DATE: NOVEMBER 2017

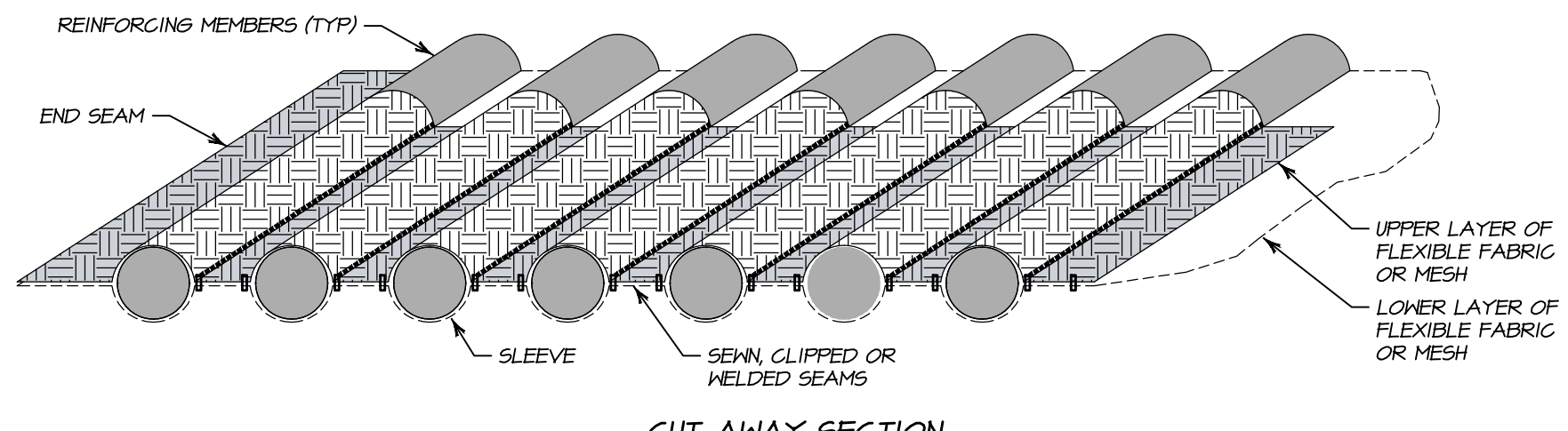
JOB NO: 17-04

SHEET NO:

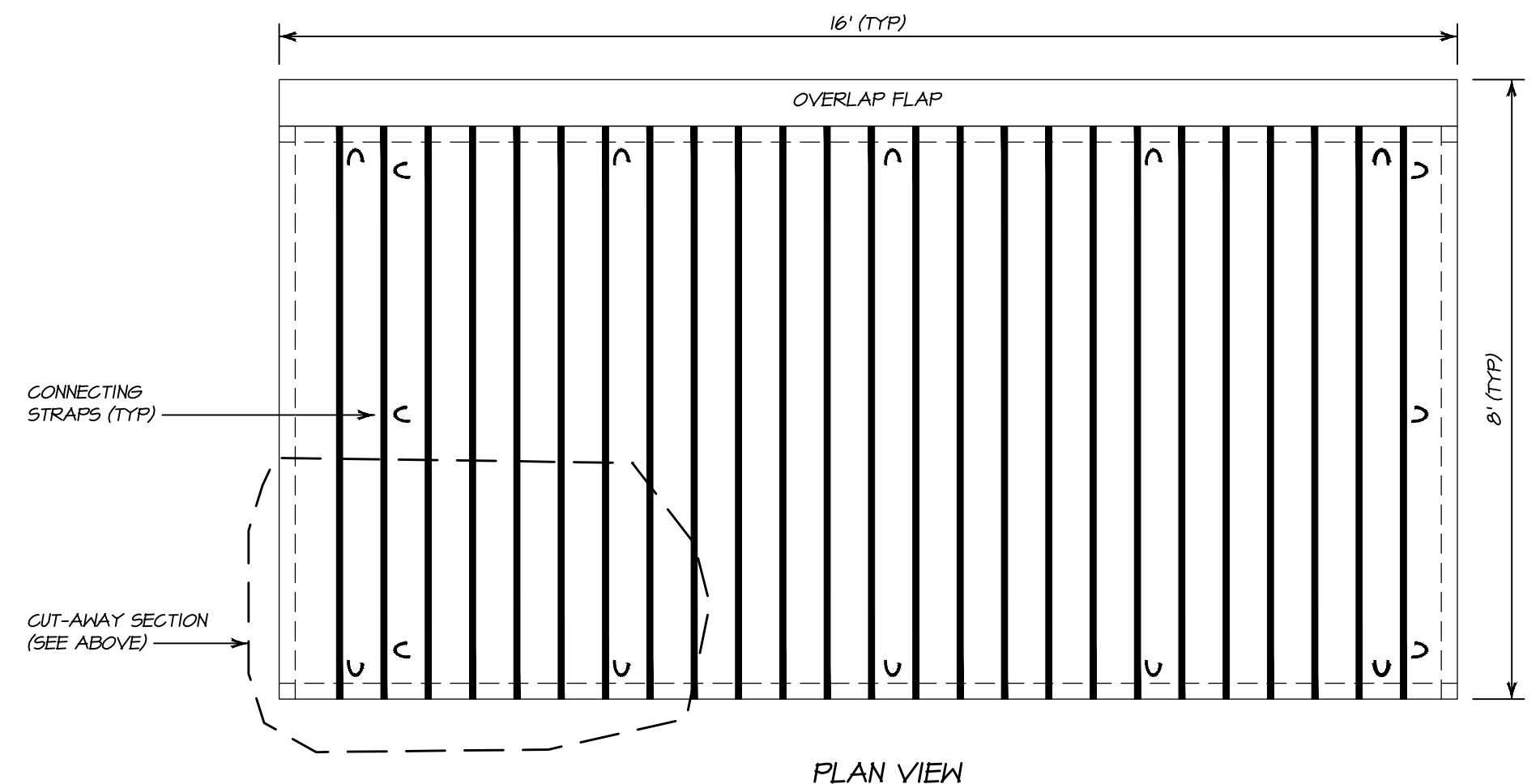
C9

OF 11

3/12/2018 - 9:40 PM I:\G:\P\5\LAND PROJECTS\19\2018-2017\1704\01 IMP ROAD\CAD\PLANS\1704-IMP.DWG C:\DETAILS\BRAD_ARCH\PL\BLEED D (8600 X 2400 INCHES) 1" = 1' PLOTTED @ BARTELT ENGINEERING 10/17/2018 10:30



NOTE:
ENDS ARE SEWN OR CLIPPED SHUT TO CONFINE REINFORCING MEMBERS (NOT SHOWN)

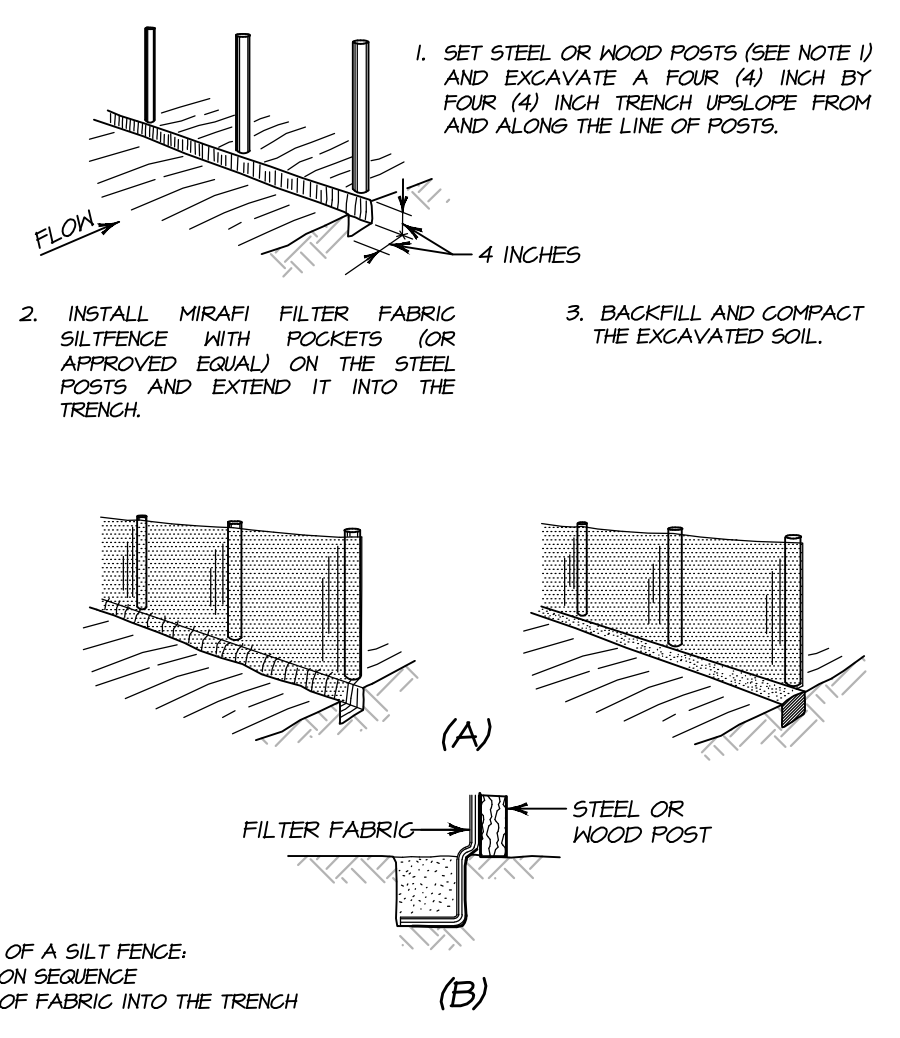


NOTE:
AGES MUD MAT
www.brockwhite.com

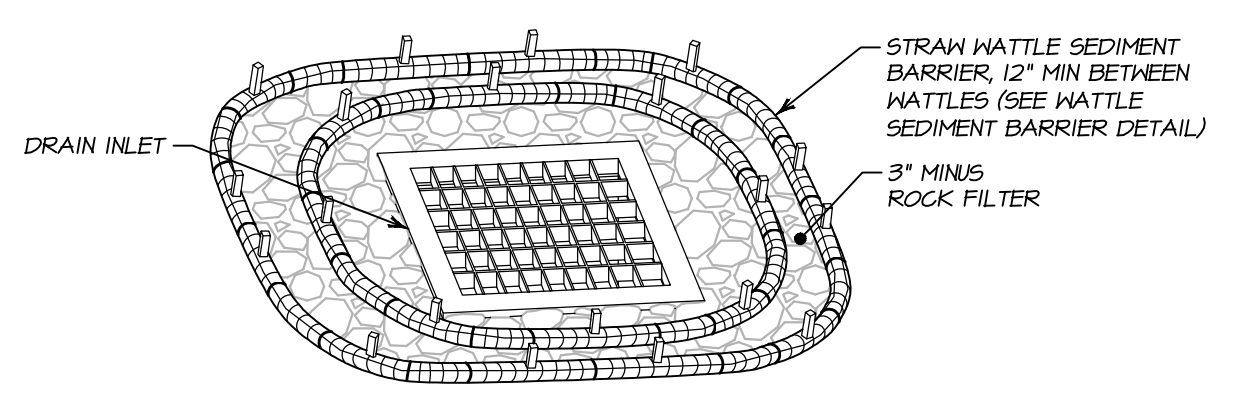
AGES MUD MAT TEMPORARY CONSTRUCTION ENTRANCE/EXIT DETAIL
NO SCALE

INSTALLATION OF SILT FENCE SEDIMENT BARRIER

- LAY OUT A SUITABLE FENCE LINE AND SET POSTS ALONG IT. ON SLOPES, ALIGN THE FENCE ALONG THE CONTOUR AS CLOSELY AS POSSIBLE. IN SMALL SLOPES, CURVE THE FENCE LINE UPSTREAM AT THE ENDS TO DIRECT THE FLOW TOWARD THE MIDDLE OF THE FENCE.
- SPACE POSTS ON SIX (6) FOOT CENTERS AND DRIVE THEM A MINIMUM OF 12 INCHES INTO THE GROUND. POSTS FOR SILT FENCES CAN BE EITHER 1-1/2 INCHES MINIMUM DIAMETER HARD WOOD OR 133 POUNDS PER FOOT STEEL WITH A MINIMUM LENGTH OF FIVE (5) FEET. STEEL POSTS MUST HAVE PROJECTIONS FOR FASTENING WIRE TO THEM.
- FASTEN THE FILTER FABRIC TO THE UPHILL SIDE OF THE FENCE POSTS, AND EXTEND TO SIX (6) TO EIGHT (8) INCHES INTO THE TRENCH. THE HEIGHT OF THE FENCE SHOULD NOT EXCEED 36 INCHES. DO NOT STAPLE FABRIC ONTO TREES. WHEN JOINTS ARE NECESSARY, SPLICE THE FILTER CLOTH AT A SUPPORT POST, WITH A MINIMUM SIX (6) INCHES OVERLAP, AND SECURELY FASTEN BOTH ENDS TO THE POST.
- BACKFILL THE TRENCH OVER THE TOE OF THE FABRIC AND COMPACT THE SOIL.
- PREFABRICATED SILT FENCE WITH POSTS MAY BE USED AS AN ALTERNATE TO SETTING STEEL OR WOOD POSTS.

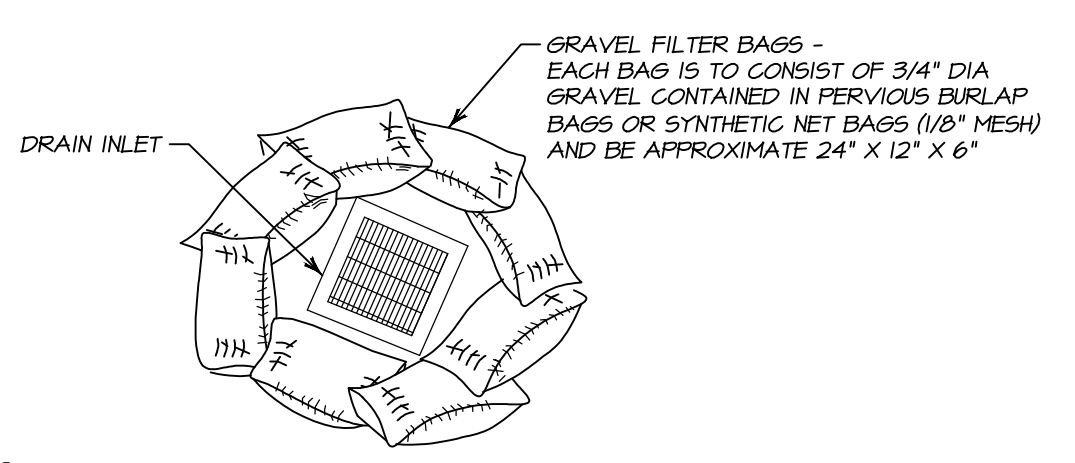


SILT FENCE SEDIMENT BARRIER DETAIL
NO SCALE



- NOTES:**
- THIS DETAIL APPLIES TO DRAIN INLETS LOCATED IN NON-PAVED AREAS ONLY.
 - FLANGE AND OVERLAP ENDS OF STRAW WATTLE SEDIMENT BARRIER SO THAT NO SPACE EXISTS BETWEEN THE ENDS OF THE SEDIMENT BARRIER.
 - REMOVE SEDIMENT AND DEBRIS AS IT ACCUMULATES TO ALLOW DRAINAGE INTO THE STORM DRAIN SYSTEM.
 - REMOVE FILTER AFTER CONSTRUCTION.

STRAW WATTLE DRAIN INLET FILTER DETAIL
NO SCALE

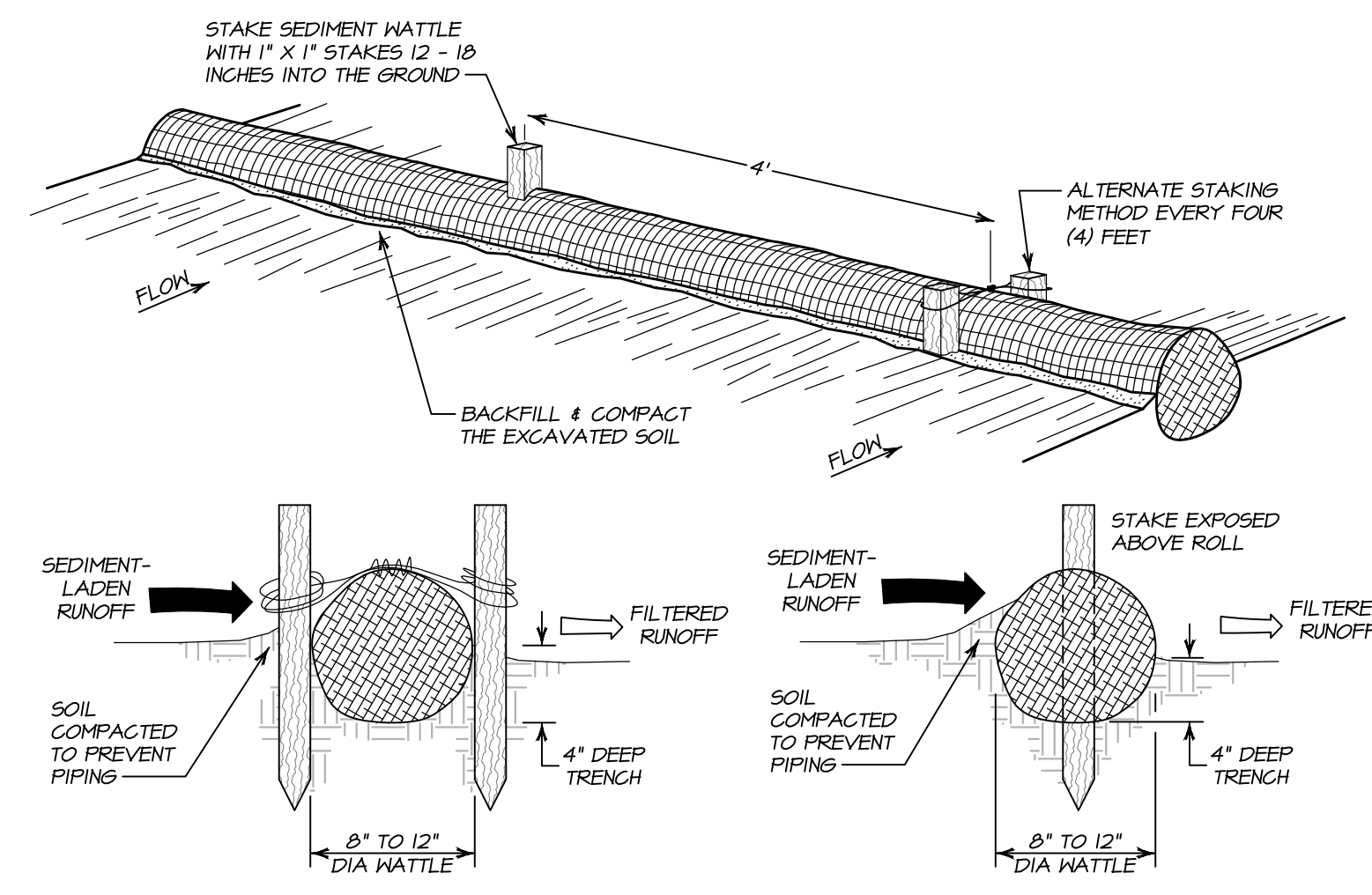


- NOTES:**
- THIS DETAIL APPLIES TO DRAIN INLETS LOCATED IN PAVED AREAS ONLY.
 - PLACE AND OVERLAP ENDS OF GRAVEL BAG SEDIMENT BARRIER SO THAT NO SPACE EXISTS BETWEEN THE ENDS OF EACH INDIVIDUAL SEDIMENT BARRIER.
 - REMOVE SEDIMENT AND DEBRIS AS IT ACCUMULATES TO ALLOW DRAINAGE INTO THE STORM DRAIN SYSTEM.
 - REMOVE FILTER AFTER CONSTRUCTION.

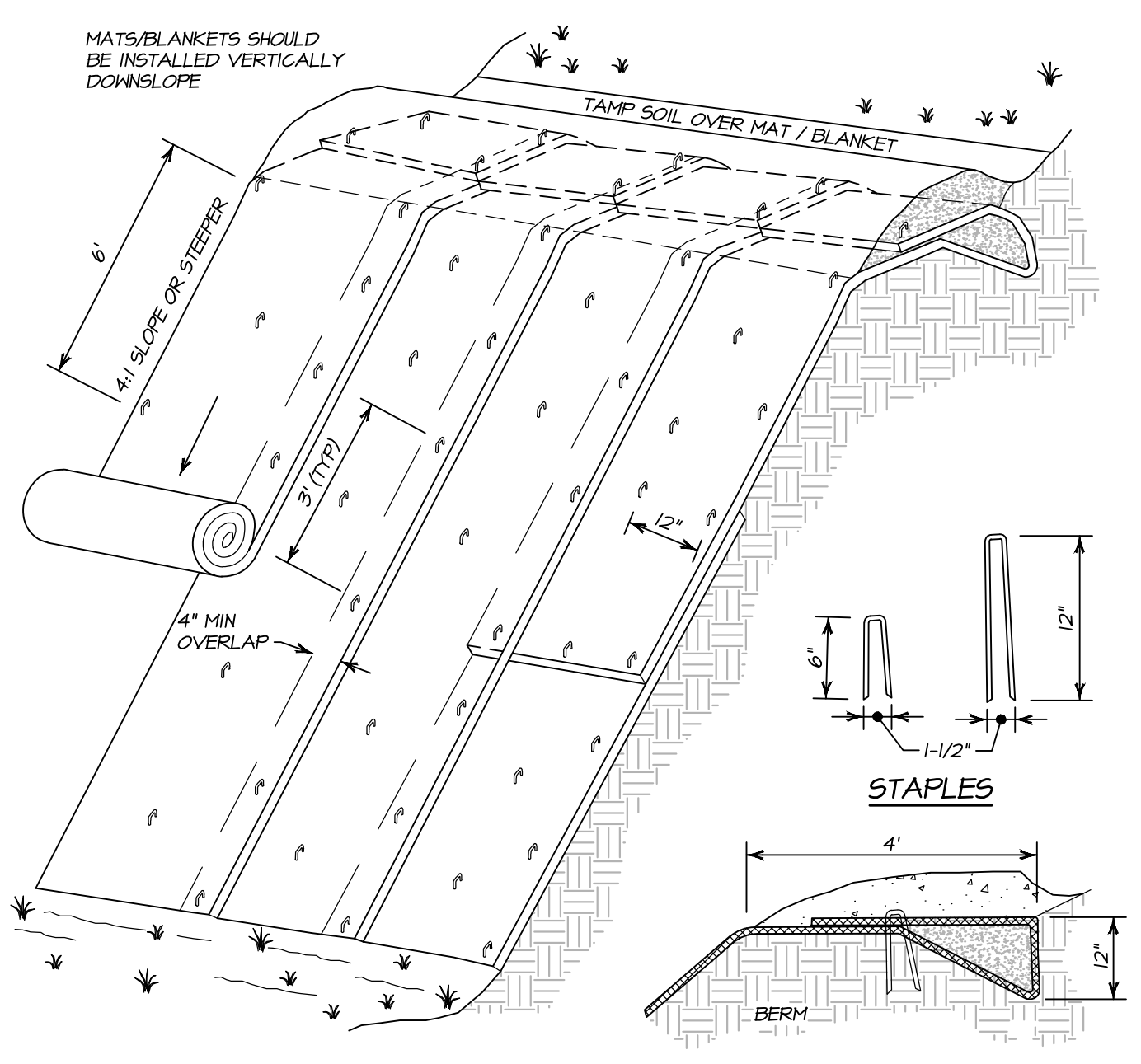
GRAVEL BAG SEDIMENT FILTER INSTALLATION DETAIL
NO SCALE

INSTALLATION OF WATTLE SEDIMENT BARRIER

- PREPARE THE SLOPE BEFORE THE WATTING PROCEDURE IS STARTED. SHALLOW GULLIES SHOULD BE SMOOTHED AS WORK PROGRESSES.
- DIG SMALL TRENCHES ACROSS THE SLOPE ON CONTOUR TO PLACE ROLLS IN. THE TRENCH SHOULD BE DEEP ENOUGH TO ACCOMMODATE HALF THE THICKNESS OF THE ROLL. WHEN THE SOIL IS LOOSE AND UNCOMPACTED, THE TRENCH SHOULD BE DEEP ENOUGH TO BURY THE ROLL 2/3 OF ITS THICKNESS BECAUSE THE GROUND WILL SETTLE.
- IT IS CRITICAL THAT ROLLS ARE INSTALLED PERPENDICULAR TO WATER MOVEMENT, PARALLEL TO THE SLOPE CONTOUR. START BUILDING TRENCHES AND INSTALL ROLLS FROM THE BOTTOM OF THE SLOPE AND WORK UP.
- CONSTRUCT TRENCHES AT CONTOUR INTERVALS DEPENDING ON STEEPNESS OF SLOPE. THE STEEPER THE SLOPE, THE CLOSER TOGETHER THE TRENCHES. LAY THE ROLL ALONG THE TRENCHES FITTING IT SNUGLY AGAINST THE SOIL. MAKE SURE NO GAPS EXIST BETWEEN THE SOIL AND THE STRAW WATTLE.
- USE A STRAIGHT BAR TO DRIVE HOLES THROUGH THE WATTLE AND INTO THE SOIL FOR THE WILLOW OR WOODEN STAKES. DRIVE THE STAKE THROUGH PREPARED HOLE INTO SOIL. LEAVE ONLY ONE (1) OR TWO (2) INCHES OF STAKE EXPOSED ABOVE ROLL.
- INSTALL STAKES AT LEAST EVERY FOUR (4) FEET APART THROUGH THE WATTLE AS SHOWN BELOW.
- STRAW WATTLE SHALL BE 100% BIODEGRADABLE.
- WATTLES AND STAKES SHALL BE REMOVED AND DISPOSED OF PROPERLY OFFSITE ONCE COVER CROP IS ESTABLISHED AND NOTICE IS RECEIVED FROM ENGINEER.

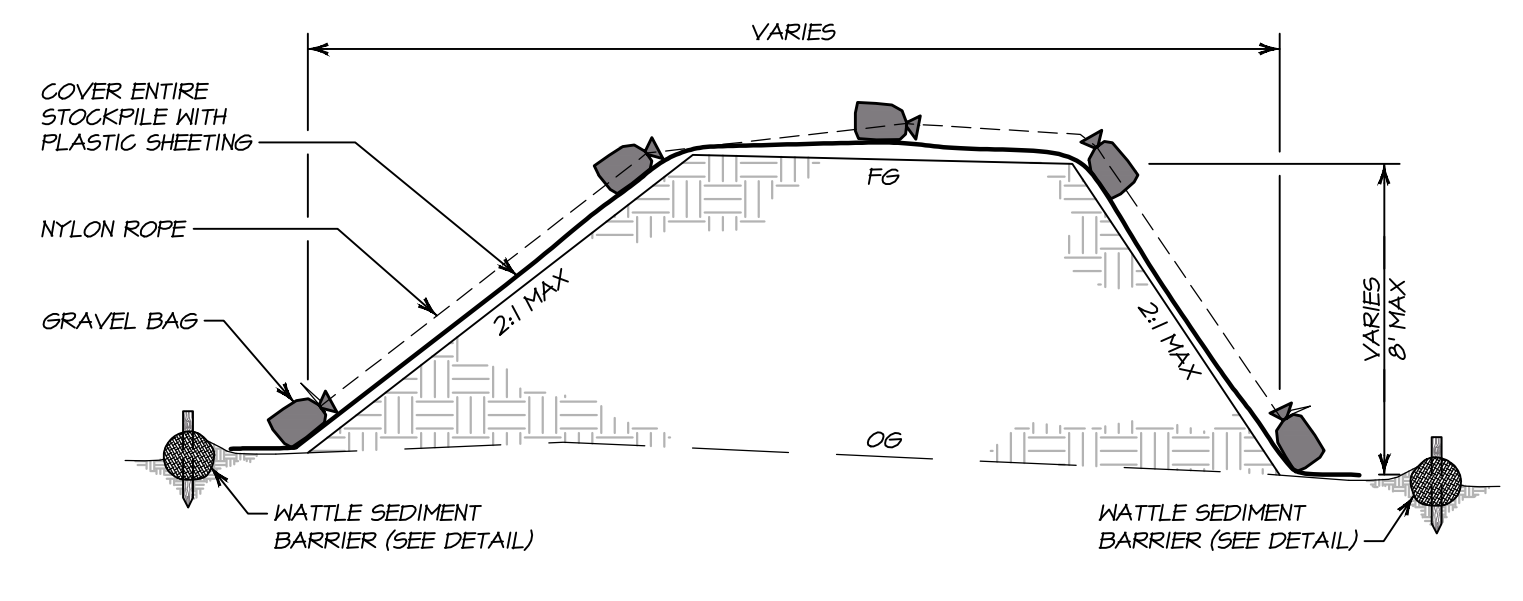


WATTLE SEDIMENT BARRIER DETAIL
NO SCALE



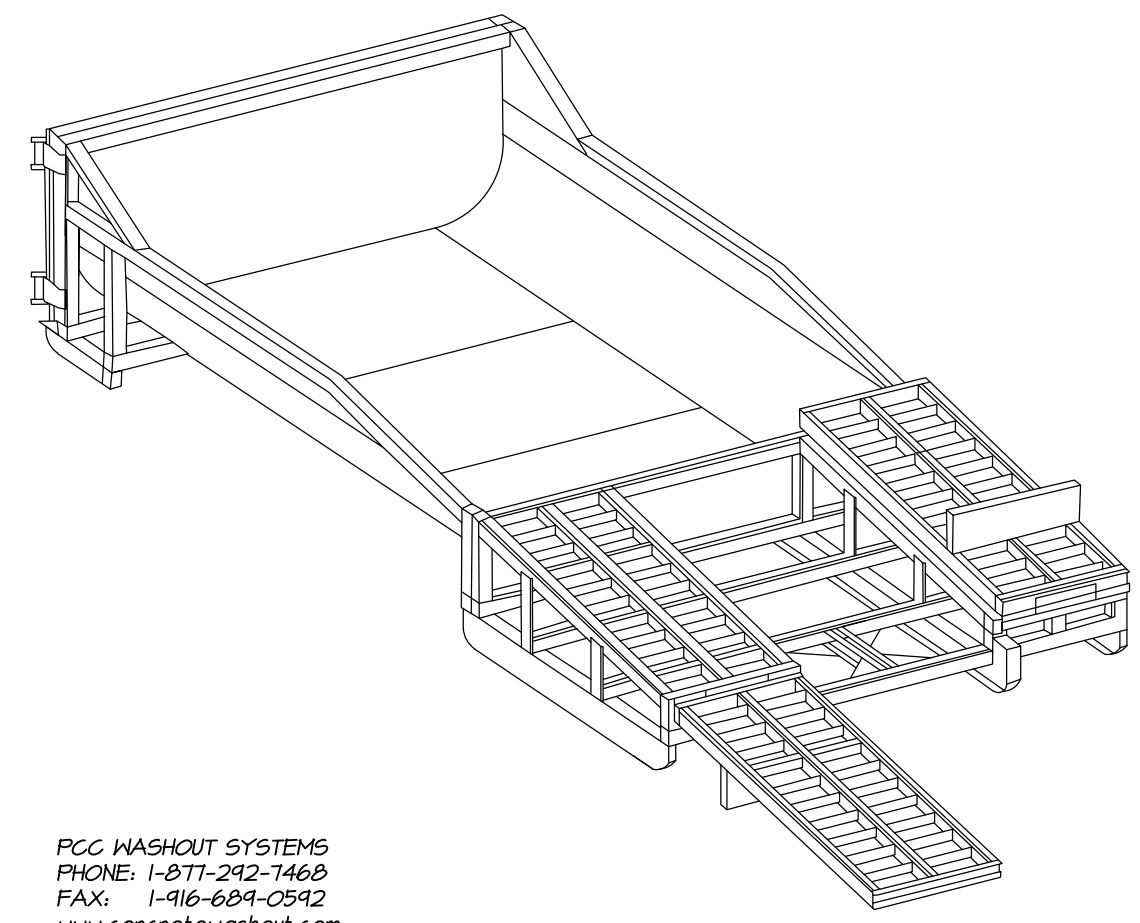
- NOTES:**
- SLOPE SURFACE SHALL BE FREE OF ROCKS, CLODS, STICKS AND GRASS. MATS/BLANKETS SHALL HAVE GOOD SOIL CONTACT.
 - APPLY PERMANENT SEEDING BEFORE FLAGGING BLANKETS.
 - LAY NORTH AMERICAN GREEN BIONET CLOSER BLANKETS LOOSELY AND STAKE OR STAPLE TO MAINTAIN DIRECT CONTACT WITH THE SOIL. DO NOT STRETCH.

SLOPE STABILIZATION & EROSION CONTROL BLANKET INSTALLATION DETAIL
NO SCALE



- NOTES:**
- IF STOCKPILE IS TOPSOIL, IT MAY BE PROTECTED BY APPLYING STRAW MULCH AND EROSION CONTROL SEED MIX IN PLACE OF PLASTIC SHEETING. IF GRASSES FAIL TO ESTABLISH EFFECTIVE COVER, PLASTIC SHEETING WILL BE REQUIRED.
 - PLASTIC SHEETING SHALL BE SECURELY HELD IN PLACE WITH A LINE OF GRAVEL BAGS SLUNG OVER THE TOP OF THE STOCK PILE WITH ROPE.

TYPICAL STOCKPILE CROSS SECTION
NO SCALE



PORTABLE PCC WASHOUT CONTAINER DETAIL
NO SCALE



PREPARED UNDER THE DIRECTION OF
PAUL N. BARTELT R.C.E. 45102

NO.	DATE	DESCRIPTION	BY
02-26-10		NO CHANGE TO THIS SHEET	KP

BARTELT ENGINEERING
 CIVIL ENGINEERING - LAND PLANNING
 1303 Jefferson Street, 200 B, Napa, CA 94559
 www.barteltengineering.com
 Telephone: 707-258-1301

OWNERSHIP OF DOCUMENTS
 THIS DRAWING IS THE PROPERTY OF BARTELT ENGINEERING AND IS NOT TO BE USED IN WHOLE OR IN PART FOR ANY OTHER PROJECT WITHOUT THE WRITTEN CONSENT OF BARTELT ENGINEERING. ALL CHANGES TO THIS DRAWING SHALL BE MADE BY BARTELT ENGINEERING. THE CLIENT OF BARTELT ENGINEERING AND MAY BE DISTRIBUTED TO CONTRACTORS AND OTHERS AS PART OF THE PROJECT. THE CLIENT OF BARTELT ENGINEERING AND MAY BE DISTRIBUTED TO CONTRACTORS AND OTHERS AS PART OF THE PROJECT. THE CLIENT OF BARTELT ENGINEERING AND MAY BE DISTRIBUTED TO CONTRACTORS AND OTHERS AS PART OF THE PROJECT. THE CLIENT OF BARTELT ENGINEERING AND MAY BE DISTRIBUTED TO CONTRACTORS AND OTHERS AS PART OF THE PROJECT.

DES: PNB / RP
 DRAWN: KP
 CHECK: PNB

CALIFORNIA
 NAPA COUNTY

CARDEY RESIDENCE
 DETAIL SHEET

DATE: NOVEMBER 2017
 JOB NO: 17-04
 SHEET NO: C11
 OF 11

3/12/2018 - 3:54 PM, 640MP, 5/LAND PROJECT/530305-2017/10410017 IMP ROAD/ACAD/P/ANST/104-IMP/DWG - C11/DETAILS SEP. ARCH FULL BLEED D (26.00 X 24.00 INCHES), 1" = 1' PLOTTED @ BARTELT ENGINEERING, 707-258-1301