

Staff Report

for the Board of Directors' Meeting of April 22, 2020

TO: Board of Directors

FROM: Doug Roderick, Engineering Manager
Shannon Wood, Business Services Technician

DATE: April 13, 2020

SUBJECT: Deer Creek Park 2 – Phase 1 Waterline Extension
First Amendment to Conveyance Agreement– Consent Agenda

ENGINEERING

RECOMMENDATION:

Approve the First Amendment to Conveyance Agreement with Terra Alta Development Company for installation of approximately 633 lineal feet of 8-inch pipe, 653 lineal feet of 4-inch pipe and all appurtenances to serve Nevada County parcels 36-230-33 & 36-240-27, which will be subdivided into seven (7) lots, as recommended by the Administrative Practices Committee.

BACKGROUND:

The Conveyance Agreement to install approximately 1,286 lineal feet of waterline, one fire hydrant and all appurtenances was executed on May 25, 2016 (attached for reference). Article 3 – Capacity Charges and Connection Fees of the agreement identifies collecting capacity charges based on ¾-inch meters for each of the seven (7) new lots, which was a meter upsize requested by the developer/engineer. The NID Rules and Regulations relating to Water Service, Section 10.07 – Prepayment of Capacity Charges (attached for reference) require the payment of the minimum size meter (5/8-inch) capacity charge when waterline extensions serving more than four parcels are installed.

Construction is complete and all final paperwork is being submitted. Brian Valli, Managing Director with Terra Alta Development Company requested that they be

permitted to pay the minimum capacity charges (5/8-inch meter) at this time with the option of paying to upgrade to the 3/4-inch meter upon installation if requested.

Staff is agreeable to the request. The Administrative Practices Committee reviewed the request at the March 3, 2020 meeting and unanimously recommended advancing the First Amendment to Agreement to the Board of Directors for approval via the consent agenda. Legal Counsel has reviewed the First Amendment and staff incorporated all modifications.

This item is in alignment with Goal No. 2 of the District's Strategic Plan – Stewardship of District resources requires a collaborative and responsive relationship with our Local and Regional community.

BUDGETARY IMPACT:

All design and construction costs are borne by the developer.

/sw

Attachments (6):

- First Amendment to Conveyance Agreement
- Exhibit A to First Amendment
- Exhibit B to First Amendment
- Conveyance Agreement w/out Exhibits
- NID Water Service Regulations - Section 10.07 Prepayment of Capacity Charges
- Location Map

FIRST AMENDMENT TO AGREEMENT

(Conveyance)

This First Amendment ("First Amendment") to the existing Agreement (Conveyance) is made and entered into this 13th day of April, 2020, by and between the NEVADA IRRIGATION DISTRICT, hereinafter referred to as "District" and TERRA ALTA DEVELOPMENT COMPANY, hereinafter referred to as "Developer".

RECITALS

WHEREAS, Developer and District are parties to existing Agreement dated May 25, 2016 (the "Agreement"); and

WHEREAS, the Developer has prepared or caused to be prepared, at Developer's sole cost, expense, and responsibility, plans and specifications entitled Deer Creek Park IIa, (filed in District's office as Deer Creek Park 2 – Ph I Waterline Extension"), as prepared by Nevada City Engineering, Inc. for construction of water system improvements consisting generally of 633 lineal feet of 8-inch C900 pipe, 653 lineal feet of 4-inch C900 pipe, one fire hydrant and all appurtenances thereto, to provide treated water to Nevada County AP 36-230-33 & 36-240-27, a copy of which is attached as Exhibit "A" to the Agreement; and

WHEREAS, the Developer originally requested to install ¾-inch meters for each new lot created thereby agreeing to pay the associated capacity charge as identified in Article 3 of the Agreement; and

WHEREAS, the Developer has now requested, and District agrees, to allow the Developer to revert to the minimum capacity charge required for each new lot created resulting in a reduction of capacity charges due to the District under the Agreement;

WHEREAS, capacity charges in excess of the minimum size, if applicable, will be collected prior to meter installation if larger meters are requested per Rate Schedule 4-A;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby stipulated by District and Developer, the parties mutually agree as follows:

1. Article 3 of the Agreement – Capacity Charges and Connection Fees – is superseded and replaced in its entirety by the following:

ARTICLE 3 – CAPACITY CHARGES AND CONNECTION FEES: Pursuant to Section 10.07 of the District's "Regulations Relating to Water Service", a capacity charge for a minimum size meter shall be paid by the Developer for each parcel to be served by the water system improvements, prior to District's acceptance of the improvements. The capacity charge for a minimum-size meter shall be as shown in Schedule 4-A, entitled, "Treated Water System, Standby Charges, and Connection Fees", which is attached hereto and marked Exhibit "B" and made a part of this Agreement. Therefore, Developer, prior to conveying the water system improvements to District, agrees to and shall pay District the then current capacity charges for a 5/8-inch meter (currently \$10,929) for each of the 7 parcels

shown in Exhibit "A". Based on the current Schedule 4-A, the total capacity charges to be paid prior to conveyance equals \$76,503. Developer understands and agrees to be bound by any District alterations, additions, amendments, revisions, or modifications to Schedule 4-A, or any other District policies, rules, or regulations.

Those parcels described in Exhibit "A", upon application for water service, shall be credited the then current capacity charges for a 5/8-inch meter and shall otherwise be subject to all connection fees as shown in the then current Schedule 4-A, or its equivalent, and all other then applicable fees and charges.

2. Except as specifically modified in this First Amendment, the terms of the Agreement remain in full force and effect.
3. The Developer shall notify Nevada County of this First Amendment to Agreement.

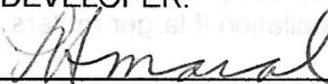
THIS AGREEMENT is made by the undersigned parties on the date first written above, at Grass Valley, California.

NEVADA IRRIGATION DISTRICT:

By _____
Ricki Heck, President

By _____
Kris Stepanian, Board Secretary

DEVELOPER:

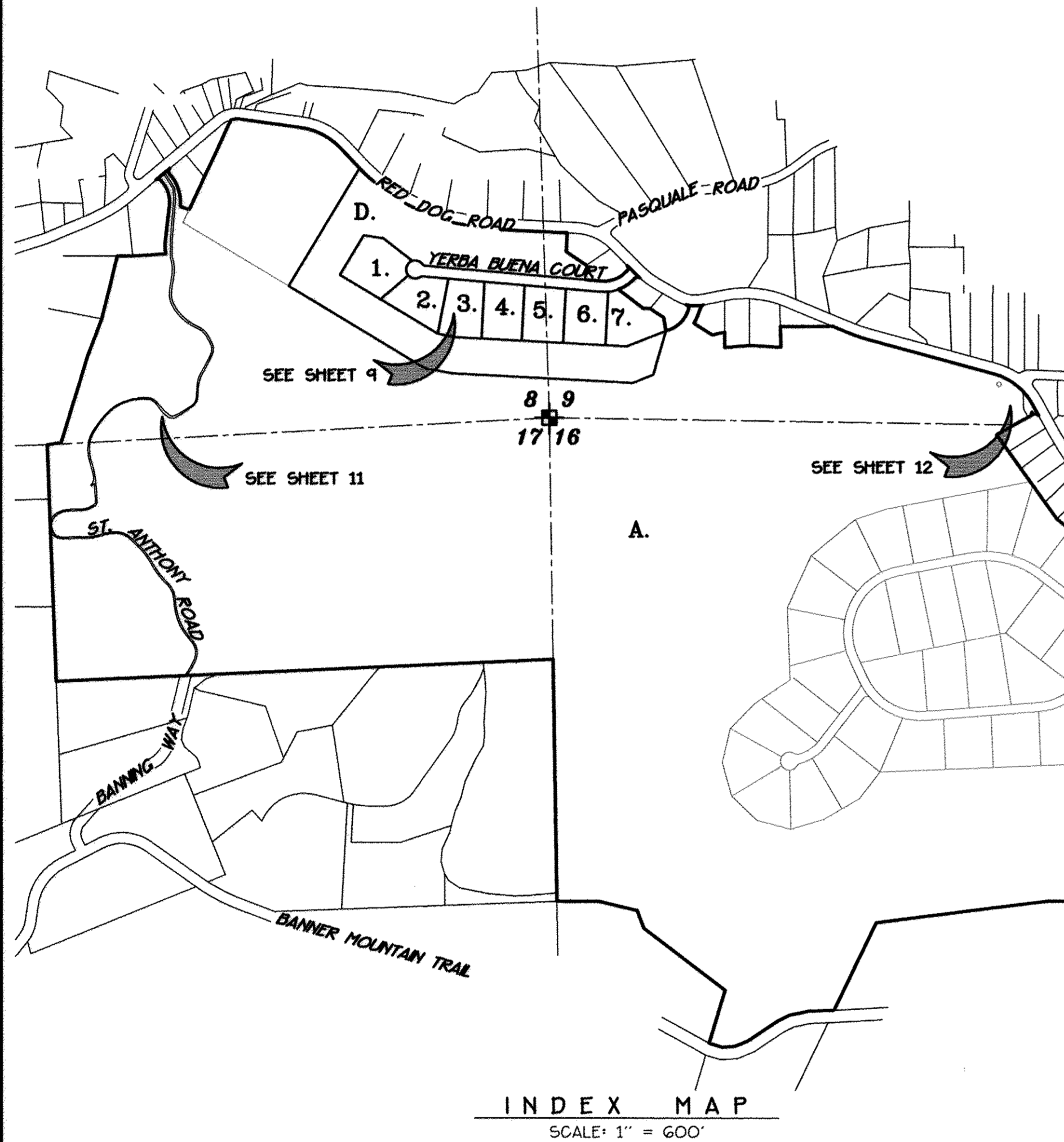
By 
Lance Amaral, President – Terra Alta Development

IMPROVEMENT PLANS FOR Deer Creek Park IIa

AS REQUIRED BY FINAL MAP FM01-001

A.P.N.'s 36-230-33 + 36-240-27
NEVADA COUNTY, CALIFORNIA

PREPARED BY
NEVADA CITY ENGINEERING, INC.
505 COYOTE STREET • P.O. BOX 1437 • NEVADA CITY, CALIF.



EARTHWORK SUMMARY

EXCAVATION QUANTITIES:	3,580 C.Y.
EMBANKMENT QUANTITIES:	2,230 C.Y.
SITE BALANCE [(C-F)/C]:	37.7
AREA OF DISTURBANCE:	1.84 Ac.

CALL BEFORE YOU DIG

NOTE: CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT (USA) TELEPHONE: (800) 642-2600 TWO DAYS (MIN) PRIOR TO CONSTRUCTION

SHEET INDEX

- 1 TITLE SHEET
- 2-3 CONSTRUCTION NOTES AND DETAILS
- 4 EROSION CONTROL NOTES AND DETAILS
- 5-8 WATER SYSTEM DETAILS (DELETED SHEET 8)
- 9-10 YERBA BUENA COURT PLAN AND PROFILE
- 11 S.W.P.P.P. EXHIBIT
- 12 ST. ANTHONY ROAD FIRE ACCESS PLAN



PREPARED BY OR UNDER THE DIRECTION OF:

William D. Green

DATE: 9/4/2014

WILLIAM D. GREEN, R.C.E. 53839
NEVADA CITY ENGINEERING, INC.

ROADWAY, GRADING AND DRAINAGE IMPROVEMENTS REVIEWED FOR CONFORMANCE WITH NEVADA COUNTY STANDARDS AND ORDINANCES BY:

Jan W. K...

DATE: 9/4/2014

NEVADA COUNTY DEPARTMENT OF PUBLIC WORKS

WATER SYSTEMS ACCEPTED BY: *

Gary King

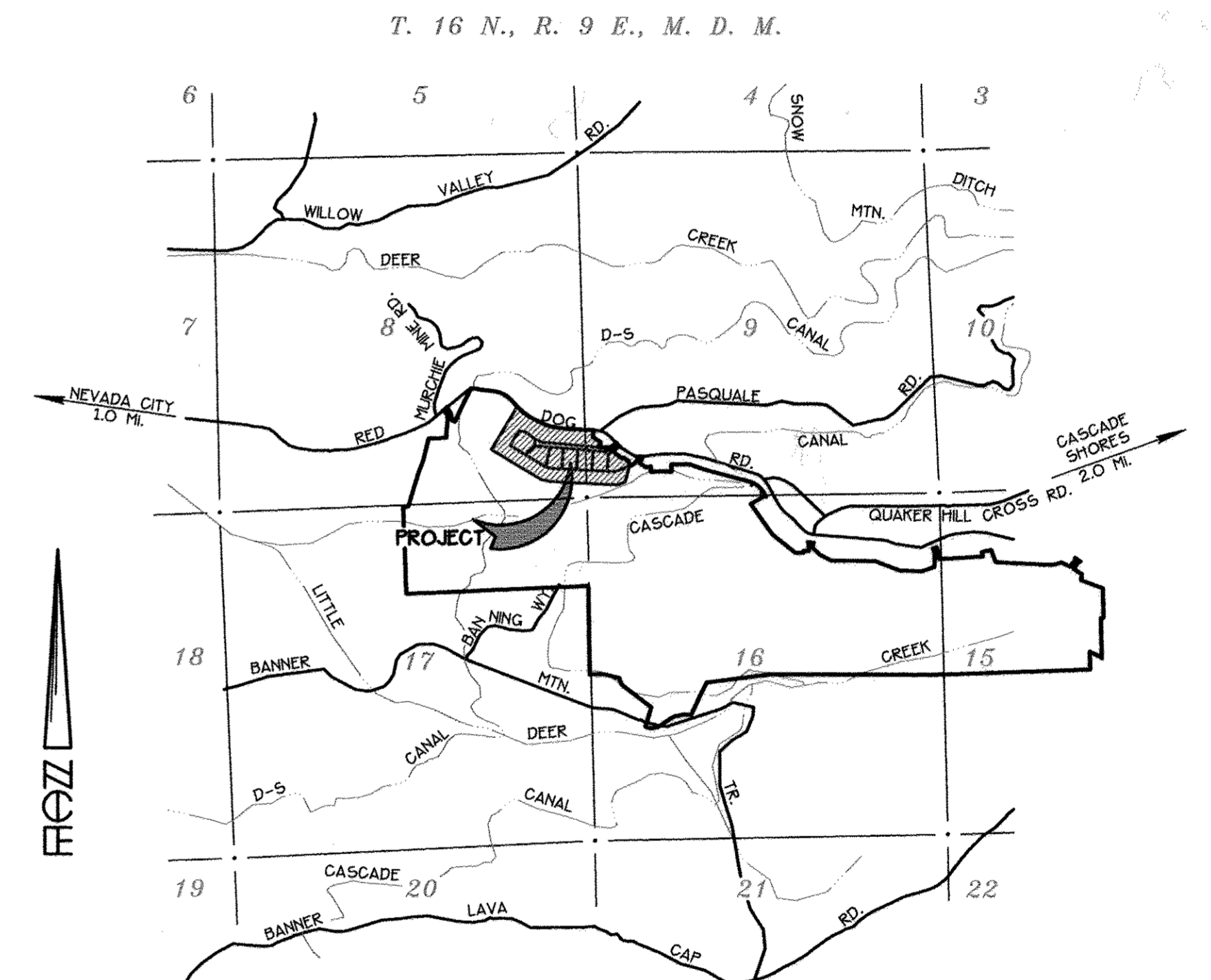
DATE: 9/26/14

GARY KING
ENGINEERING MANAGER
NEVADA IRRIGATION DISTRICT

* ACCEPTANCE IS HEREBY CONDITIONED THAT AN APPROVED CONVEYANCE AGREEMENT MUST BE FULLY EXECUTED WITHIN 90 DAYS FROM THE ACCEPTANCE DATE ABOVE.

THE WATER SYSTEM SHOWN HEREIN IS NOT CONSIDERED A PART OF ANY COUNTY OF NEVADA PERMIT.

NOTE: ALL WORK SHALL CONFORM TO DISTRICT STANDARDS AS SHOWN AT THE NID WEBSITE



HAUL ROUTE: EXIT NORTH BOUND STATE ROUTE 20/49 TO BROAD STREET. RIGHT ON BROAD STREET TO STOP SIGN. AT 150 FT. STRAIGHT TO BOULDER STREET. IN 0.5 MI. TURN RIGHT ON RED DOG ROAD. IN 1.7 MI. TURN RIGHT INTO PROJECT.

SITE ADDRESS

RED DOG ROAD
NEVADA CITY, CA 95959

PROJECT OWNER/DEVELOPER

TERRA ALTA DEVELOPMENT CO.
C/O MR. LANCE AMARAL
P.O. BOX 1657
NEVADA CITY, CA 95959
PH: (530) 265-6162

W.D.I.D. NUMBER: 5529C358560

RECORD DRAWING

DESIGNED	DATE	JOB NO.
NCL	04/19/10	98-061
DRAWN	SHEET	1 OF 12
NCE		

GENERAL NOTES

- ALL BEARINGS SHOWN HEREON ARE BASED UPON MONUMENTS FOUND AS ESTABLISHED BY BOOK 4 OF SUBDIVISIONS AT PAGE 56, NEVADA COUNTY RECORDS.
- ELEVATIONS SHOWN HEREON ARE BASED ON A U.S.G.S. N.A.D. 88 DATUM AS TRANSFERRED TO CONTROL POINT D-1 A 16 PENNY NAIL, ELEVATION 3112.26', LOCATED 7.35' RIGHT OF STATION 22+97.03 "YERBA BUENA COURT".
- CONTRACTORS AND CONSTRUCTION PERSONNEL INVOLVED IN ANY FORM OF GROUND DISTURBANCE (I.E. UTILITY PLACEMENT OR MAINTENANCE, GRADING, ETC.) SHALL BE ADVISED OF THE REMOTE POSSIBILITY OF ENCOUNTERING SUBSURFACE CULTURAL RESOURCES. IF SUCH RESOURCES ARE ENCOUNTERED OR SUSPECTED, WORK SHALL BE HALTED IMMEDIATELY AND THE PLANNING DEPARTMENT AND A PROFESSIONAL ARCHAEOLOGIST SHALL BE CONSULTED WHO SHALL ASSESS ANY DISCOVERIES AND DEVELOP APPROPRIATE MANAGEMENT RECOMMENDATIONS FOR ARCHAEOLOGICAL RESOURCE TREATMENT. IF BONES ARE FOUND AND APPEAR TO BE HUMAN, CALIFORNIA LAW REQUIRES THAT NEVADA COUNTY CORONER AND NATIVE AMERICAN HERITAGE COMMISSION BE CONTACTED. IF NATIVE AMERICAN RESOURCES ARE INVOLVED, NATIVE AMERICAN ORGANIZATIONS AND INDIVIDUALS RECOGNIZED BY THE COUNTY SHALL BE NOTIFIED AND CONSULTED ABOUT ANY PLANS FOR TREATMENT.
- DURING CONSTRUCTION ACTIVITY, THERE SHALL BE NO WASTE AND/OR WASTE WATER DISCHARGED INTO SURFACE WATERS, DRAINAGE COURSES, OR WETLANDS.
- THE CONTRACTOR OR OWNER SHALL ARRANGE FOR COMPACTION TESTING BY A QUALIFIED SOILS ENGINEER. DOCUMENTATION OF ACCEPTABLE RESULTS SHALL BE PROVIDED TO THE DESIGN ENGINEER FOR REVIEW, APPROVAL, AND INCLUSION IN A "FINAL LETTER OF ACCEPTANCE" TO BE PROVIDED BY THE DESIGN ENGINEER TO THE COUNTY. SAID "FINAL LETTER OF ACCEPTANCE" SHALL STATE CONSTRUCTION WAS COMPLETED PER THE APPROVED PLANS AND THE LOCAL GRADING ORDINANCE. FAILURE TO NOTIFY AND/OR PROVIDE THE REQUIRED ACCEPTABLE TESTING RESULTS TO THE PROJECT ENGINEER OR DEVIATION FROM THE WORK DELINEATED HEREIN MAY RESULT IN RE-WORK AND/OR RE-TESTING BEING REQUIRED PRIOR TO THE ISSUANCE OF THE "FINAL LETTER OF ACCEPTANCE".
- IF CONSTRUCTION IS PROPOSED DURING BREEDING SEASON (MARCH TO SEPTEMBER), A FOCUSED SURVEY FOR RAPTOR AND THE OTHER SPECIAL-STATUS BIRD NESTS SHALL BE CONDUCTED WITHIN 30 DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION ACTIVITIES BY A QUALIFIED BIOLOGIST IN ORDER TO IDENTIFY ACTIVE NESTS ON THE SITE. IF ACTIVE NESTS ARE FOUND, NO CONSTRUCTION ACTIVITIES SHALL TAKE PLACE WITHIN 500 FEET OF THE NEST UNTIL THE YOUNG HAVE FLEDGED, AS DETERMINED BY PERIODIC MONITORING DURING NESTING ACTIVITY. FOR ACTIVE NESTS, A HIGHLY VISIBLE (ORANGE) TEMPORARY CONSTRUCTION FENCE WILL BE PLACED AT A 500 FOOT RADIUS FROM THE NEST TREE. TREES CONTAINING NESTS THAT MUST BE REMOVED AS A RESULT OF PROJECT IMPLEMENTATION SHALL BE REMOVED DURING THE NON-BREEDING SEASON (OCTOBER TO FEBRUARY). IF NO ACTIVE NESTS ARE FOUND DURING THE FOCUSED SURVEY, NO FURTHER MITIGATION WILL BE REQUIRED.

CONSTRUCTION NOTES

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS 2006, EXCEPT AS MODIFIED HEREIN. ANY REFERENCES TO STANDARD SPECIFICATIONS SHALL MEAN SAID SPECIFICATIONS.
- CONTRACTOR SHALL NOTIFY THE COUNTY OF NEVADA DEPARTMENT OF PUBLIC WORKS (530) 265-1411 48 HOURS PRIOR TO THE COMMENCEMENT WORK AND CONTINUE THIS NOTIFICATION PROCESS IF THERE ARE LONG DELAYS BETWEEN CONSTRUCTION PHASES.
- AT HIS OWN EXPENSE, THE CONTRACTOR SHALL PROVIDE ALL PERMITS, CERTIFICATES, AND LICENSES REQUIRED BY LAW.
- AN ENCROACHMENT PERMIT, ISSUED BY THE NEVADA COUNTY DEPARTMENT OF PUBLIC WORKS, IS REQUIRED PRIOR TO ANY WORK WITHIN THE RED DOG ROAD RIGHT-OF-WAY.
- ALL FILL SHALL BE CONSTRUCTED TO 90% RELATIVE COMPACTION, EXCEPTING THE UPPER 6" SHALL BE CONSTRUCTED TO 95% RELATIVE COMPACTION. ALL EXCAVATION AREAS SHALL BE SCARIFIED TO 6" BELOW SUBGRADE AND REPLACED AT 95% RELATIVE COMPACTION. COMPACTION TESTING SHALL BE IN ACCORDANCE WITH ASTM D-1557.
- ANY UNSUITABLE MATERIAL ENCOUNTERED DURING EXCAVATION ACTIVITIES SHALL BE DISPOSED OF IN ACCORDANCE WITH STANDARD SPECS. SECTION 19-2.02.
- CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL EXISTING UTILITIES, WHETHER OR NOT SHOWN HEREON.
- ALL SURFACES DAMAGED BY THE ACTIONS OF THE CONTRACTOR SHALL BE RESTORED TO EQUAL OR BETTER THAN ORIGINAL CONDITION.
- THE CONTRACTOR SHALL MAKE ALL ARRANGEMENTS FOR CONSTRUCTION WATER.
- THE CONTRACTOR SHALL MAKE EVERY EFFORT POSSIBLE TO SAVE ANY TREE WITHIN TWO FEET HORIZONTALLY OF THE TOP OF CUT OR TOE OF FILL.
- NO ROAD CONSTRUCTION SHALL OCCUR BETWEEN OCTOBER 15th AND MAY 1st WITHOUT WRITTEN APPROVAL OF THE NEVADA COUNTY DEPARTMENT OF PUBLIC WORKS.

AIR QUALITY NOTES

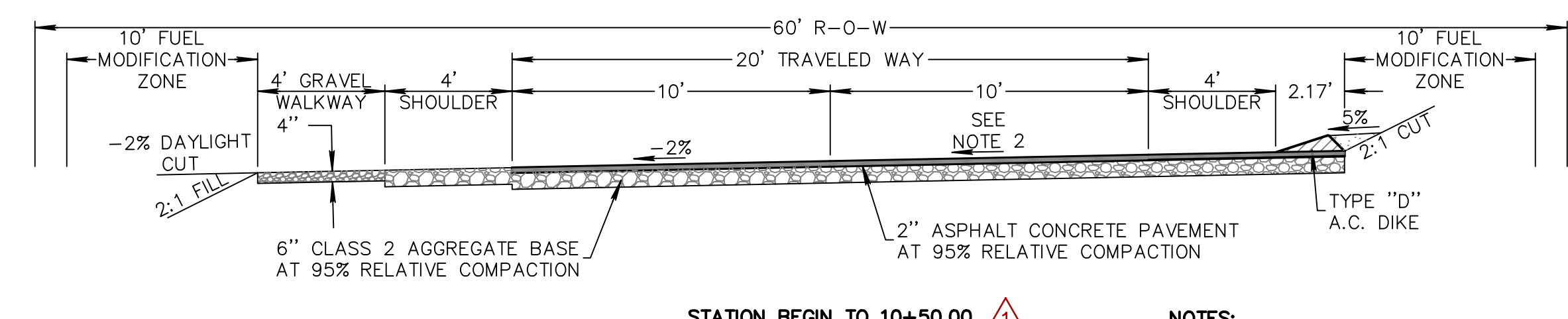
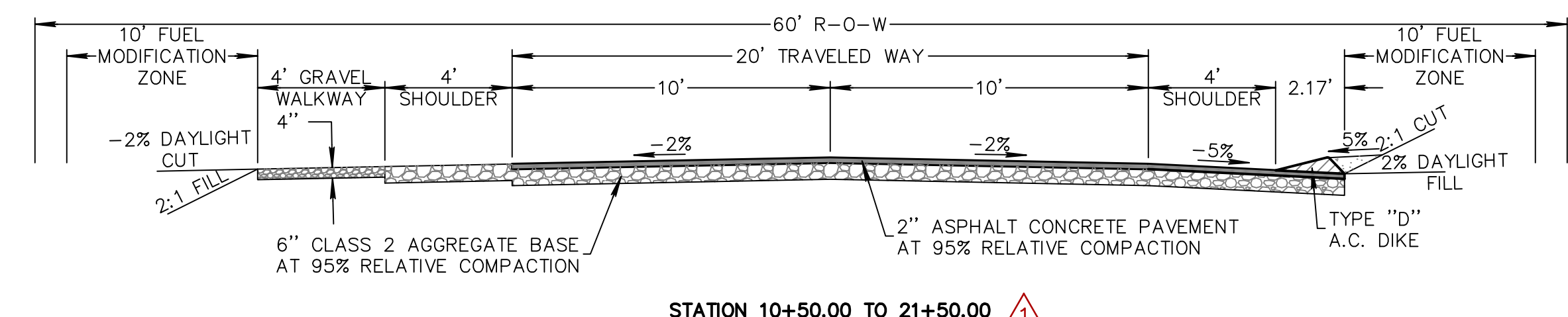
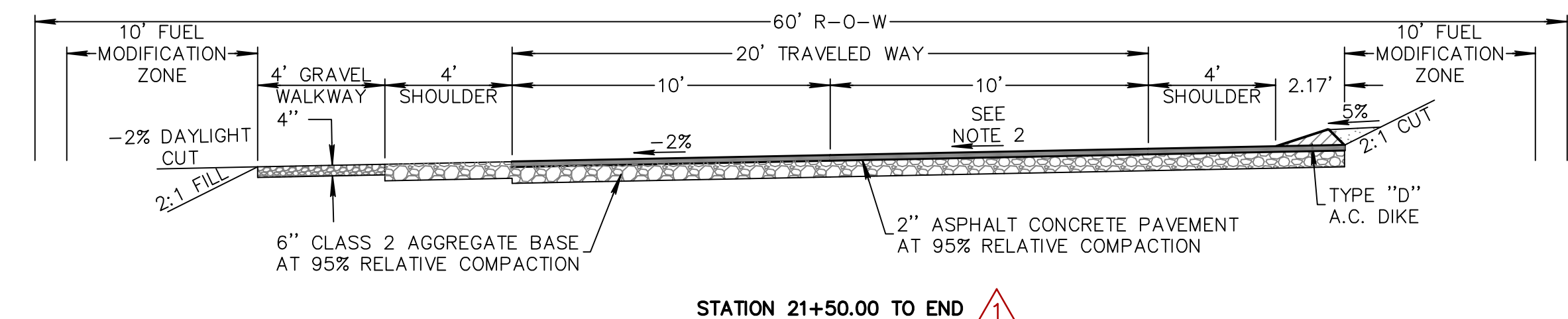
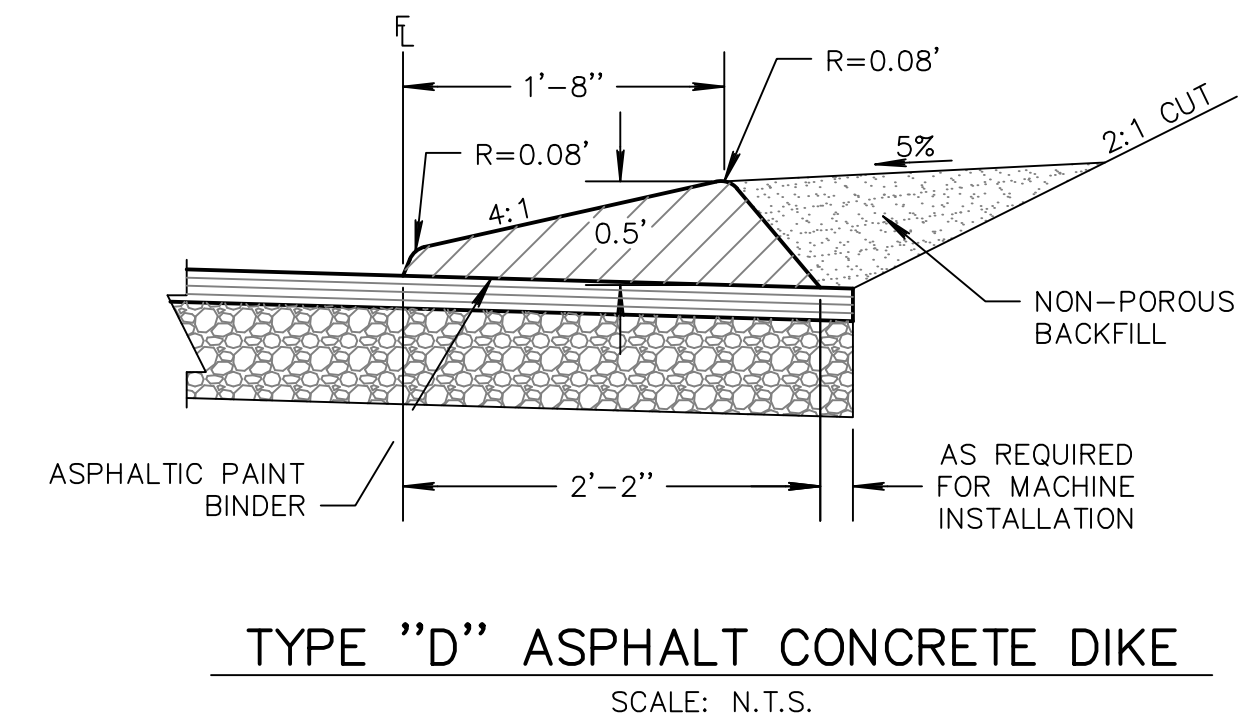
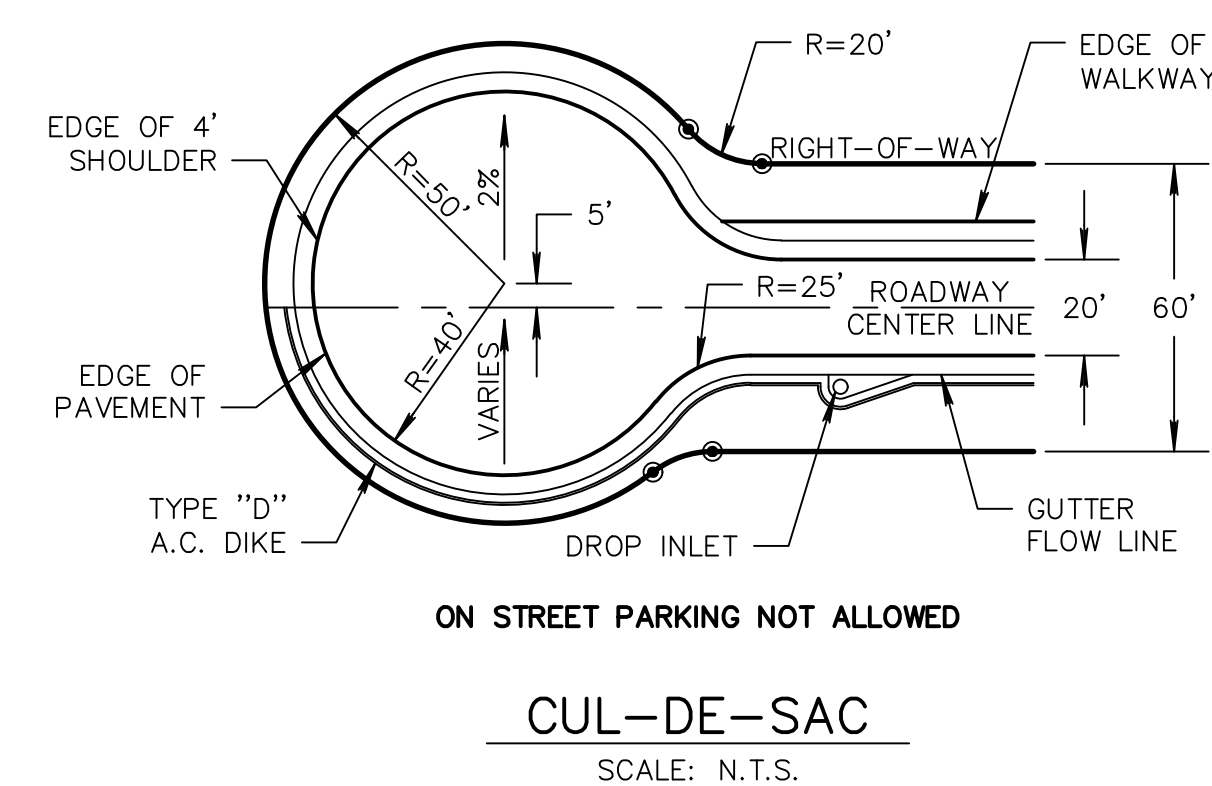
- ALTERNATIVE METHODS TO OPEN BURNING OF CLEARED VEGETATIVE MATERIAL SHALL BE USED UNLESS IT CAN BE DEMONSTRATED TO THE AIR POLLUTION CONTROL OFFICER THAT IT IS NOT FEASIBLE FOR THIS PROJECT AND A PERMIT IS OBTAINED. ALTERNATIVE METHODS INCLUDE CHIPPING, MULCHING, OR CONVERSION TO BIOMASS FUEL.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL ADEQUATE DUST CONTROL MEASURES ARE IMPLEMENTED IN A TIMELY MANNER DURING ALL PHASES OF CONSTRUCTION.
- ALL MATERIAL EXCAVATED, STOCKPILED, OR GRADED SHALL BE SUFFICIENTLY WATERED, TREATED, OR COVERED TO PREVENT FUGITIVE DUST FROM LEAVING THE PROPERTY BOUNDARIES AND CAUSING A PUBLIC NUISANCE OR A VIOLATION OF AN AMBIENT AIR STANDARD. WATERING SHOULD OCCUR AT LEAST TWICE DAILY WITH COMPLETE SITE COVERAGE, PREFERABLY IN THE MIDDORNING AND AFTER WORK IS COMPLETED EACH DAY.
- ALL AREAS (INCLUDING UNPAVED ROADS) WITH VEHICLE TRAFFIC SHALL BE WATERED OR HAVE DUST PALLIATIVE APPLIED AS NECESSARY FOR REGULAR STABILIZATION OF DUST EMISSIONS.
- ON SITE VEHICLE TRAFFIC SHALL BE LIMITED TO 15 M.P.H. ON UNPAVED ROADS.
- ALL LAND CLEARING, GRADING, EARTH MOVING, OR EXCAVATION ACTIVITIES ON THE PROJECT SHALL BE SUSPENDED AS NECESSARY TO PREVENT EXCESSIVE WIND BLOWN DUST WHEN WINDS ARE EXPECTED TO EXCEED 20 M.P.H.
- ALL INACTIVE PORTIONS OF THE DEVELOPMENT SITE SHALL BE COVERED, SEEDED, WATERED, OR OTHERWISE STABILIZED UNTIL A SUITABLE COVER IS ESTABLISHED. ALTERNATIVELY, THE APPLICANT SHALL BE RESPONSIBLE FOR APPLYING COUNTY-APPROVED NON-TOXIC SOIL STABILIZERS (ACCORDING TO MANUFACTURERS SPEC'S) TO ALL INACTIVE CONSTRUCTION AREAS (PREVIOUSLY GRADED AREAS WHICH REMAIN INACTIVE FOR 96 HOURS). ACCEPTABLE MATERIALS THAT MAY BE USED FOR CHEMICAL SOIL STABILIZATION INCLUDE PETROLEUM RESINS, ASPHALTIC EMULSIONS, ACRYLICS, AND ADHESIVES, WHICH DO NOT VIOLATE REGIONAL WATER QUALITY CONTROL BOARD OR CALIFORNIA AIR RESOURCES BOARD STANDARDS.
- ANY MATERIAL WHICH IS TRACKED ONTO A PAVED ROADWAY MUST BE REMOVED (SWEEPED OR WASHED IN SUCH A MANNER AS NOT TO CONNECT WITH SITE RUNOFF) AS QUICKLY AND SAFELY AS POSSIBLE. ALL TRACK-OUT ONTO PUBLIC ROADWAYS SHALL BE SWEEPED OR WASHED IN SUCH A MANNER AS NOT TO CONNECT WITH SITE RUNOFF AT THE END OF EACH DAY OR MORE OFTEN IF VISIBLE ACCUMULATIONS (RAISED AREAS) OF MUD ARE OBSERVED OR IF VISIBLE DUST EMISSIONS FROM PASSING VEHICLES WHICH ARE TRAVELING ONTO ANY RESIDENTIAL PROPERTY.
- ANY VEHICLE OPERATING ON A PAVED ROADWAY WITH A LOAD OF ANY BULK MATERIAL SUSCEPTIBLE TO BEING DROPPED, SPILLED, LEAKED, OR OTHERWISE ESCAPING MUST TAKE ONE OF THE FOLLOWING CONTROL MEASURES:
 - SIX INCHES OF FREEBOARD IS MAINTAINED WITHIN THE BED OF THE VEHICAL. FREEBOARD MEANS THE VERTICAL DISTANCE FROM THE HIGHEST PORTION OF THE EDGE OF THE LOAD TO THE LOWEST PORTION OF THE RIM OF THE TRUCK BED.
 - MATERIALS CONTAIN ENOUGH MOISTURE TO CONTROL DUST EMISSIONS FROM THE POINT OF ORIGIN TO THEIR FINAL DESTINATION. WHENEVER POSSIBLE, THE USE OF DUST SUPPRESSANTS MUST BE APPLIED IN CONJUNCTION WITH WATER.
 - IN THE EVENT THAT MEASURES 1 OR 2 ABOVE ARE INEFFECTIVE IN PREVENTING MATERIALS FROM ESCAPING, TARPS OR OTHER CARGO COVERS SHALL BE EMPLOYED.
- ASPHALT AND ARCHITECTURAL COATINGS USED IN PROJECT DEVELOPMENT SHALL BE LOW-V.O.C. PRODUCTS, DESIGNED TO REDUCE ORGANIC EMISSIONS BY AT LEAST 5%, AND MEETING THE STANDARDS OF THE CALIFORNIA AIR RESOURCES BOARD SUGGESTED CONTROL MEASURE FOR ARCHITECTURAL COATINGS.
- LOW-EMISSION STATIONARY CONSTRUCTION EQUIPMENT SHALL BE USED ON-SITE THROUGHOUT ALL CONSTRUCTION PHASES. USE OF STATIONARY CONSTRUCTION EQUIPMENT SHALL BE REVIEWED BY THE NORTHERN SIERRA AIR QUALITY MANAGEMENT DISTRICT (N.S.A.Q.M.D.) PRIOR TO THE ISSUANCE OF BUILDING PERMITS. EXISTING POWER SOURCES OR CLEAN FUEL GENERATORS SHALL BE USED INSTEAD OF TEMPORARY POWER GENERATORS, WHERE FEASIBLE. IN ORDER TO OPERATE A TEMPORARY MOBILE POWER GENERATOR IN EXCESS OF 50kW OUTPUT, A PERMIT SHALL BE OBTAINED FROM THE N.S.A.Q.M.D.

NOISE MITIGATION NOTES

- DURING SITE PREPARATION AND CONSTRUCTION, NOISE-PRODUCING STATIONARY CONSTRUCTION EQUIPMENT SHALL BE LOCATED NOT CLOSER THAN 200 FEET TO EXISTING RESIDENTIAL PROPERTY LINES.
- CONSTRUCTION EQUIPMENT SHALL NOT IDLE FOR LONGER THAN 10 MINUTES.
- ADJACENT RESIDENTS SHALL BE NOTIFIED IN ADVANCE OF CONSTRUCTION WORK REGARDING THE EXPECTED LEVEL AND TIMING OF NOISE.
- TEMPORARY ACOUSTIC BARRIERS SHALL BE INSTALLED AROUND STATIONARY CONSTRUCTION NOISE SOURCES TO REDUCE CONSTRUCTION RELATED NOISE.
- SITE PREPARATION AND CONSTRUCTION SHALL BE LIMITED TO THE HOURS OF 7:00 A.M. TO 7:00 P.M. MONDAY THROUGH FRIDAY, AND BETWEEN 8:00 A.M. AND 5:00 P.M. ON SATURDAY. NO CONSTRUCTION SHALL OCCUR ON SUNDAY OR FEDERAL HOLIDAYS.
- EQUIPMENT AND TRUCKS USED FOR CONSTRUCTION SHALL UTILIZE MUFFLERS, INTAKE SILENCERS, DUCTS, ENGINE ENCLOSURES AND/OR ACOUSTICALLY ATTENUATING SHIELDS OR SHROUDS IN ORDER TO MINIMIZE CONSTRUCTION NOISE IMPACTS.

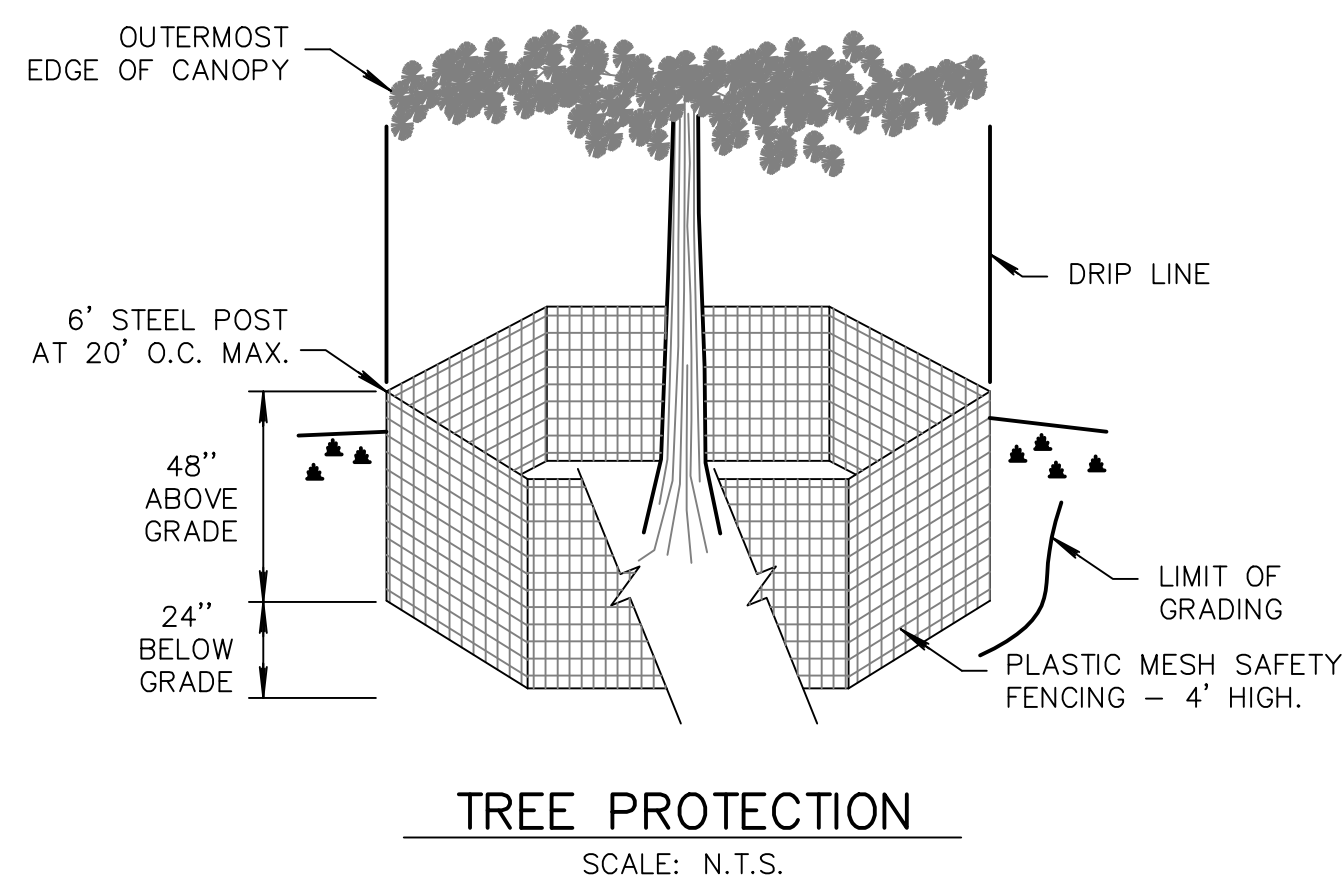
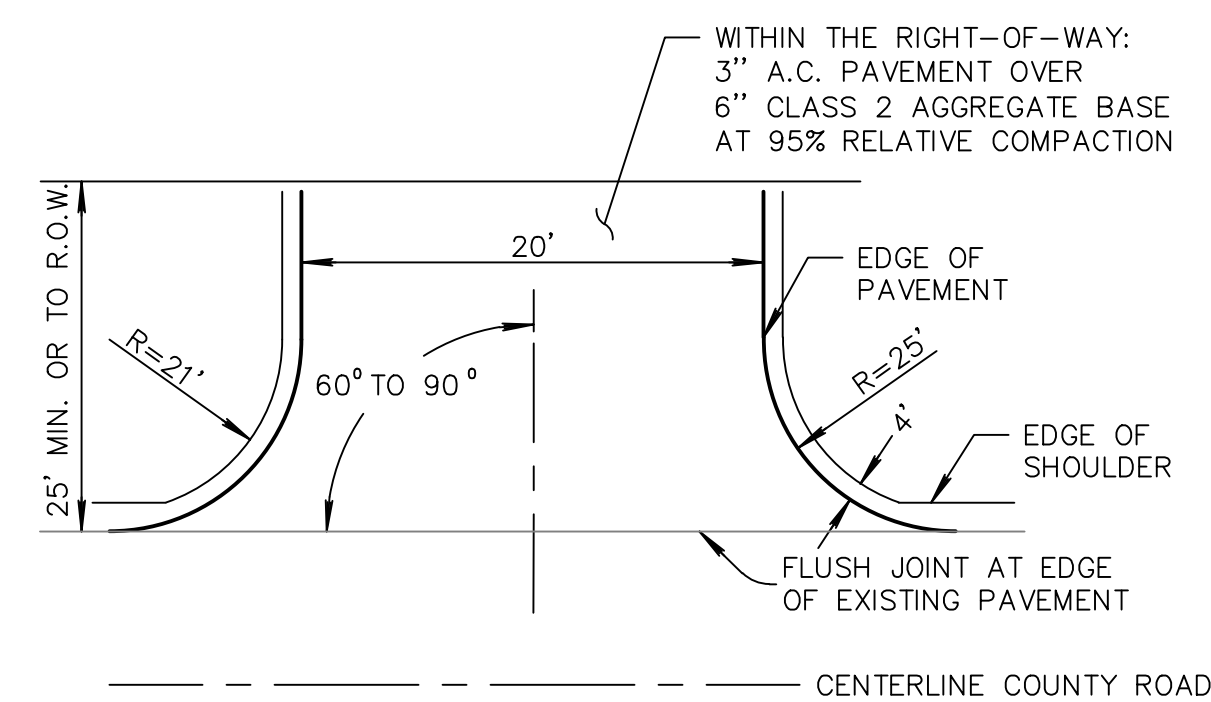
MATERIAL NOTES

- AGGREGATE BASE SHALL BE CLASS 2, 3/4" MAXIMUM GRADING, CONFORMING TO STANDARD SPECS. SECTION 26, PLACED AT 95% RELATIVE COMPACTION.
- ASPHALT CONCRETE SHALL BE TYPE B, 3/4" MAXIMUM, MEDIUM GRADING IN ACCORDANCE WITH STANDARD SPECS. SECTION 39, 93, AND 94. ASPHALT CONCRETE SHALL BE COMPACTED TO 95% RELATIVE COMPACTION WITH AN AIR Voids RATIO OF 3% TO 10%.
- ROCK LINING FOR DITCHES SHALL CONFORM TO NO. 2 BACKING, AND THE ROCK LINING FOR THE TYPICAL ROCK DISSIPATORS SHALL CONFORM TO NO. 1 BACKING, PLACED USING METHOD B (NO FOOTING REQUIRED), AS SPECIFIED IN THE STANDARD SPECS. SECTION 72.
- STORM DRAIN CONDUIT SHALL BE IN ACCORDANCE WITH STANDARD SPECS. SECTIONS 66 & 64. CORRUGATED METAL PIPE (CMP) SHALL BE 16 GAUGE, HIGH DENSITY POLYETHYLENE (HDPE) SHALL BE HI-Q PIPE AS MANUFACTURED BY HANCOR, INC. (OR APPROVED EQUAL), CORRUGATED EXTERIOR/SMOOTH INTERIOR PIPE CONFORMING TO AASHTO M294 TYPE S. ALL HDPE JOINTS AND FITTINGS SHALL ALSO CONFORM TO AASHTO M264 OR BE APPROVED BY THE ENGINEER.
- ALL WATER LINE MATERIALS SHALL CONFORM TO NEVADA IRRIGATION DISTRICT'S DEVELOPMENT STANDARDS, 1994 FOR TREATED WATER SYSTEMS, EXCEPT AS MODIFIED HEREIN.
- ROCK FOR GRAVEL WALKWAY SHALL BE 3/4" CRUSHED ROCK OR APPROVED EQUIVALENT.



YERBA BUENA PAVEMENT SECTIONS
SCALE: N.T.S.

ENTIRE ROAD SECTION IS PAVED WITH 2" ASPHALT CONCRETE PAVEMENT OVER 6" CLASS 2 AGGREGATE BASE COURSE.

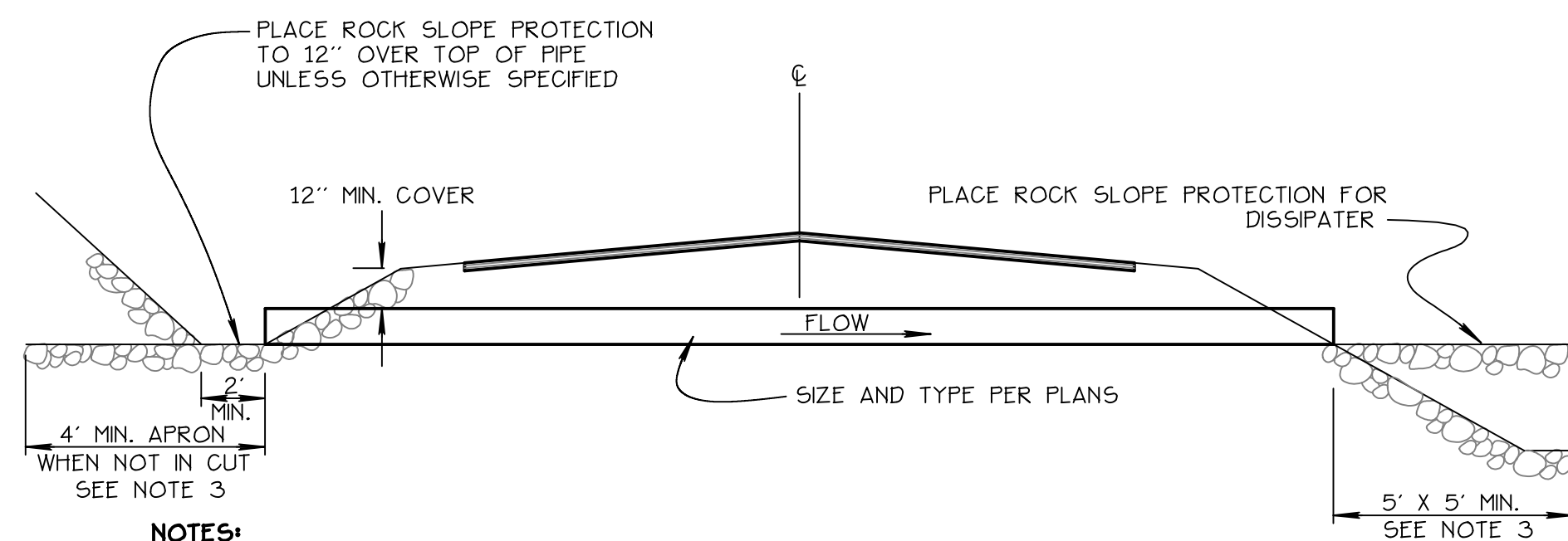


RECORD DRAWING

IMPROVEMENT PLANS FOR
Deer Creek Park IIa
NEVADA COUNTY CONSTRUCTION NOTES & DETAILS CALIFORNIA

PREPARED BY
NEVADA CITY ENGINEERING, INC.
505 COYOTE STREET - P.O. BOX 1437 - NEVADA CITY - CALIFORNIA

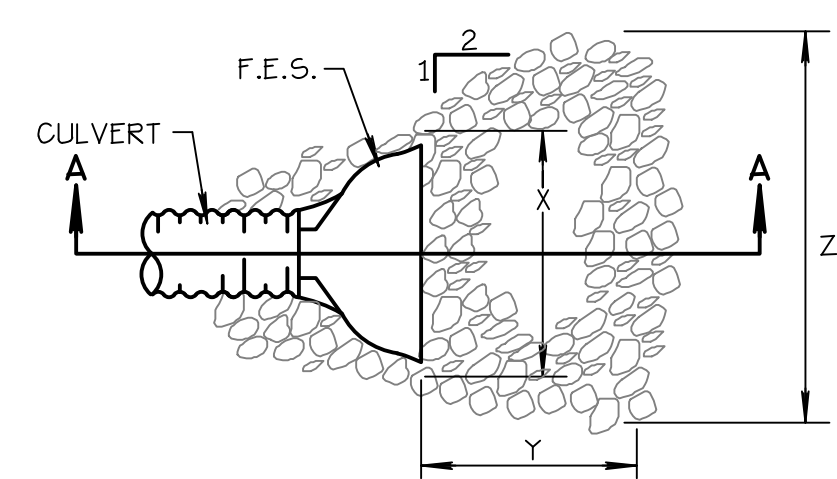
DESIGNED	NCL	DATE	04/19/10	JOB NO.	98-061
DRAWN	NCE	DATE	1/15/20	SHEET	2 OF 12
NO.	1	DATE	1/15/20	REVISION	As-built condition



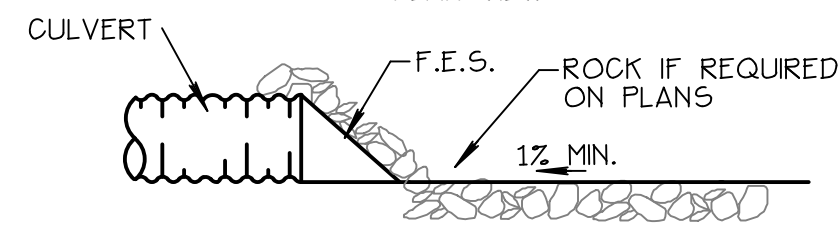
- NOTES:**
- CULVERTS TO BE INSTALLED PER SIZE AND TYPE SHOWN ON THE PLANS.
 - ROCK SLOPE PROTECTION TO BE NO. 1 BACKING PLACED A MINIMUM OF 12" THICKNESS, METHOD "B" PLACEMENT.
 - SEE ROCK INLET/OUTLET DETAIL, THIS SHEET.

TYPICAL CULVERT DETAIL

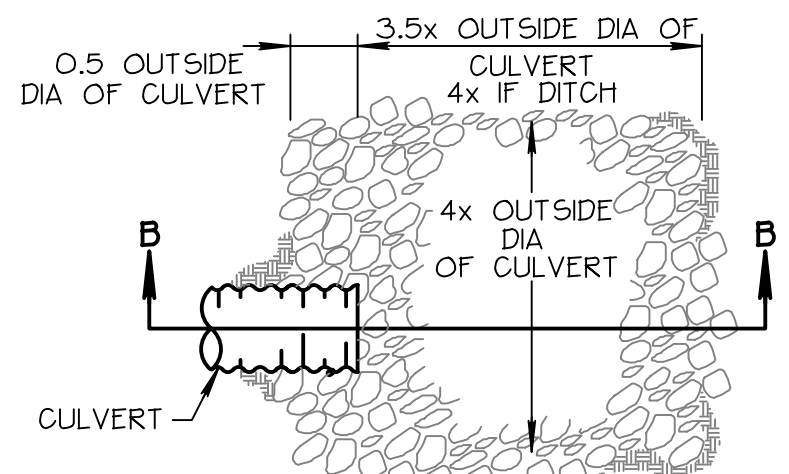
SCALE: N.T.S.



INLET PROTECTION PLAN VIEW



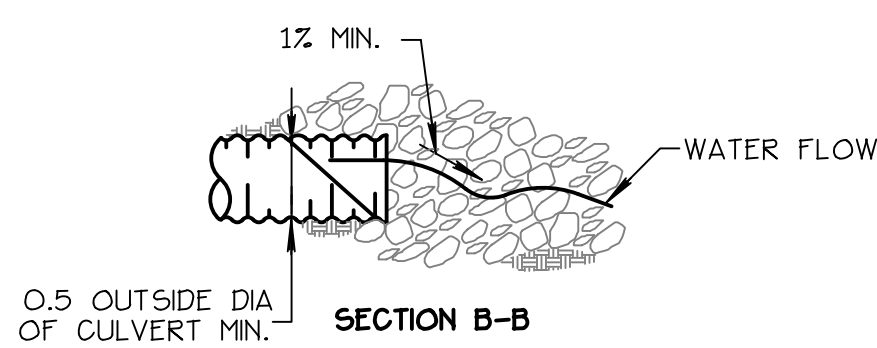
SECTION A-A



OUTLET PROTECTION PLAN VIEW

ROCK INLET/OUTLET PROTECTION

SCALE: N.T.S.

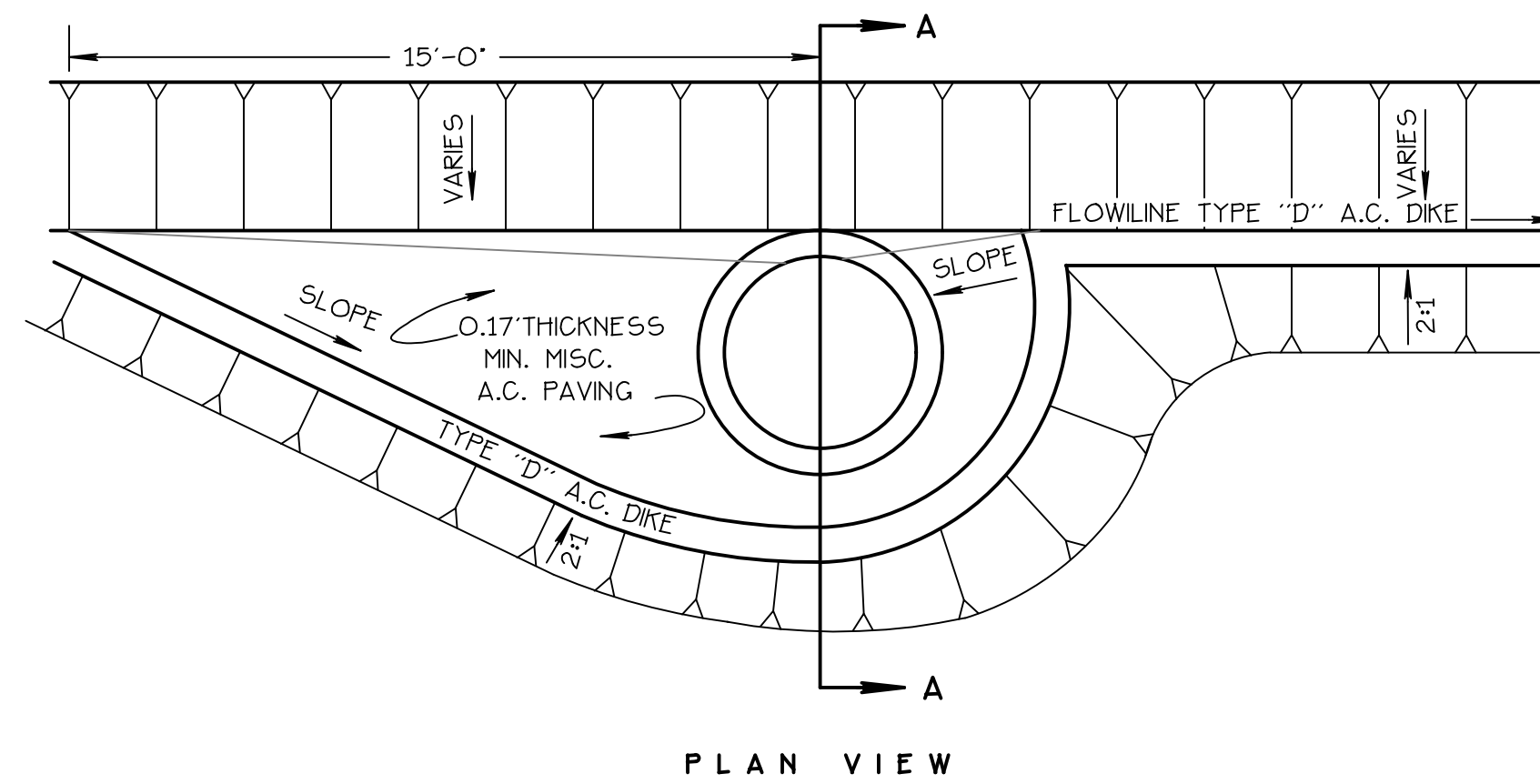


INLET PROTECTION MINIMUM DIMENSIONS

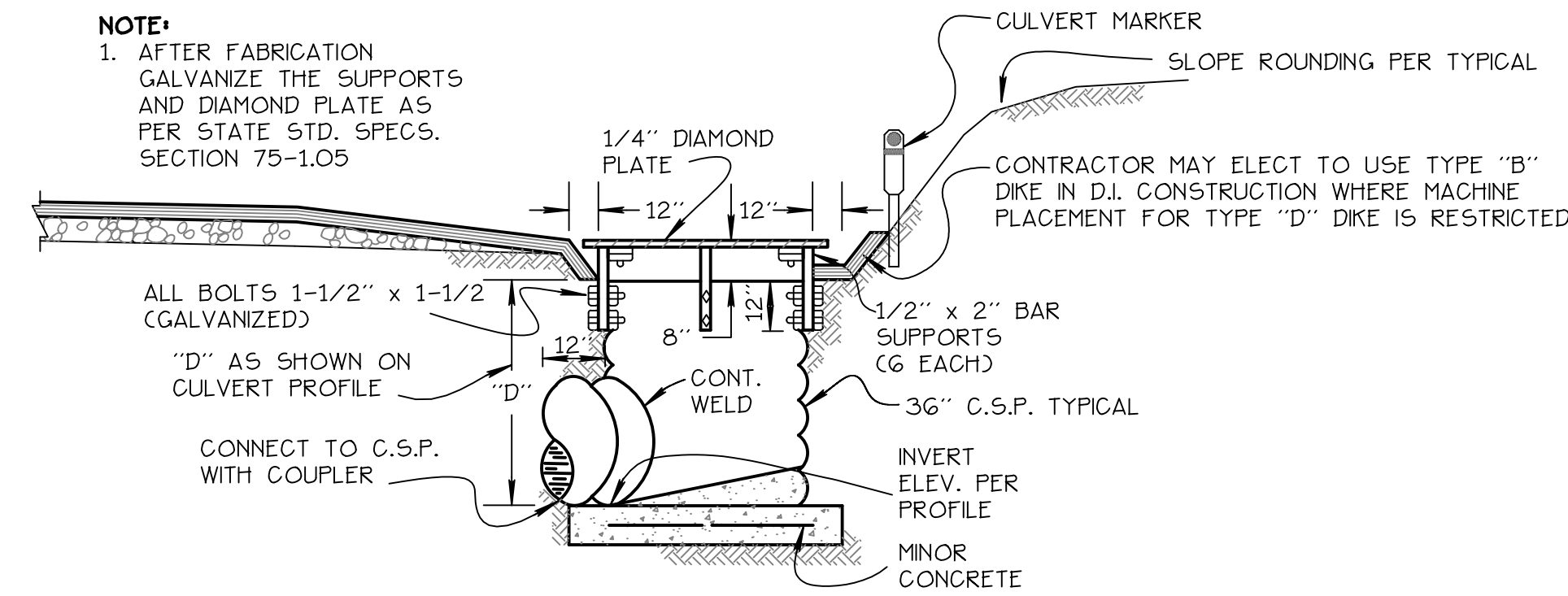
ROCK CLASS	PIPE IN.	X FEET	Y FEET	Z FEET
NO. 1 BACKING	12	3	4	5
NO. 1 BACKING	18	4.5	6	7.5
NO. 1 BACKING	24	6	8	10
NO. 1 BACKING	30	7.5	10	12.5
NO. 1 BACKING	36	9	12	15
NO. 1 BACKING	42	10.5	14	17.5
NO. 1 BACKING	48	12	16	20

NOTES:

- HAND PLACE ROCKS.
- ALL ROCKS SHALL BE ANGULAR AND HAVE TWO FACES.
- WHERE SLOPES OF OUTLETS EXCEEDS 5%, A SEDIMENT BOWL OR ENERGY DISSIPATER SHALL BE REQUIRED.
- FLARED END SECTION AND ROCK SLOPE PROTECTION SHALL BE SLOPED AT A MIN. OF 1% INTO OR OUT OF CULVERT.
- ALL CULVERTS OF 48 IN. OR LESS SHALL BE INSTALLED WITH FLARED END SECTIONS (F.E.S.). REINFORCED CONCRETE HEADWALLS AND END WALLS WITH CUTOFF WALLS SHALL BE CONSTRUCTED FOR ALL PIPES LARGER THAN 48 IN. UNLESS OTHERWISE APPROVED BY THE ENGINEER.
- ON OUTLET APPLICATIONS, 50% OF THE ROCKS SHALL BE LARGER THAN HALF THE DIAMETER OF THE PIPE.



PLAN VIEW



SECTION A-A

DROP INLET

SCALE: N.T.S.

NOTE:

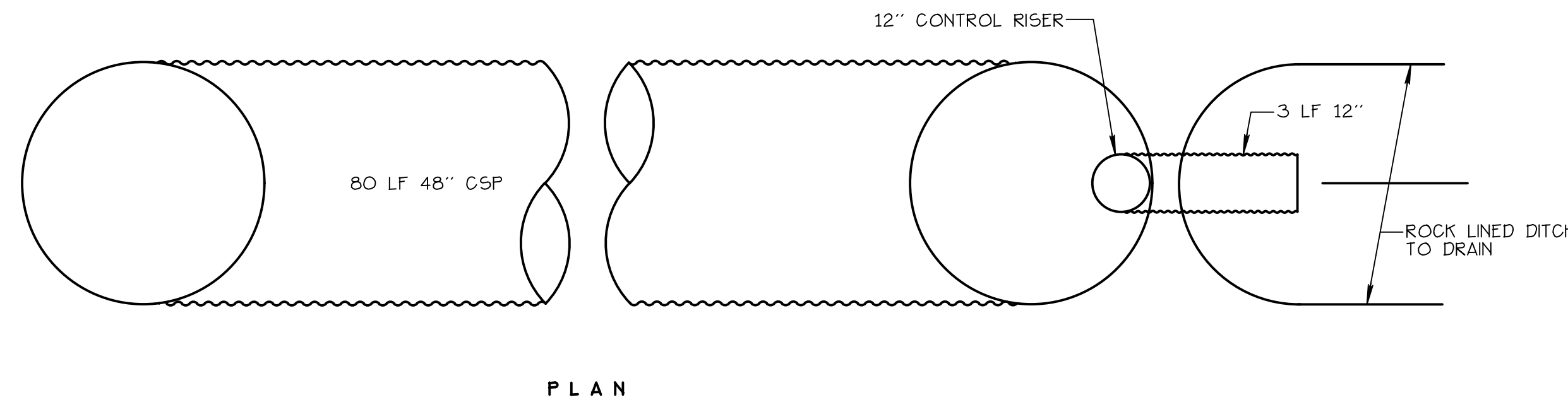
- AFTER FABRICATION GALVANIZE THE SUPPORTS AND DIAMOND PLATE AS PER STATE STD. SPECS. SECTION 75-1.05

NOTES:

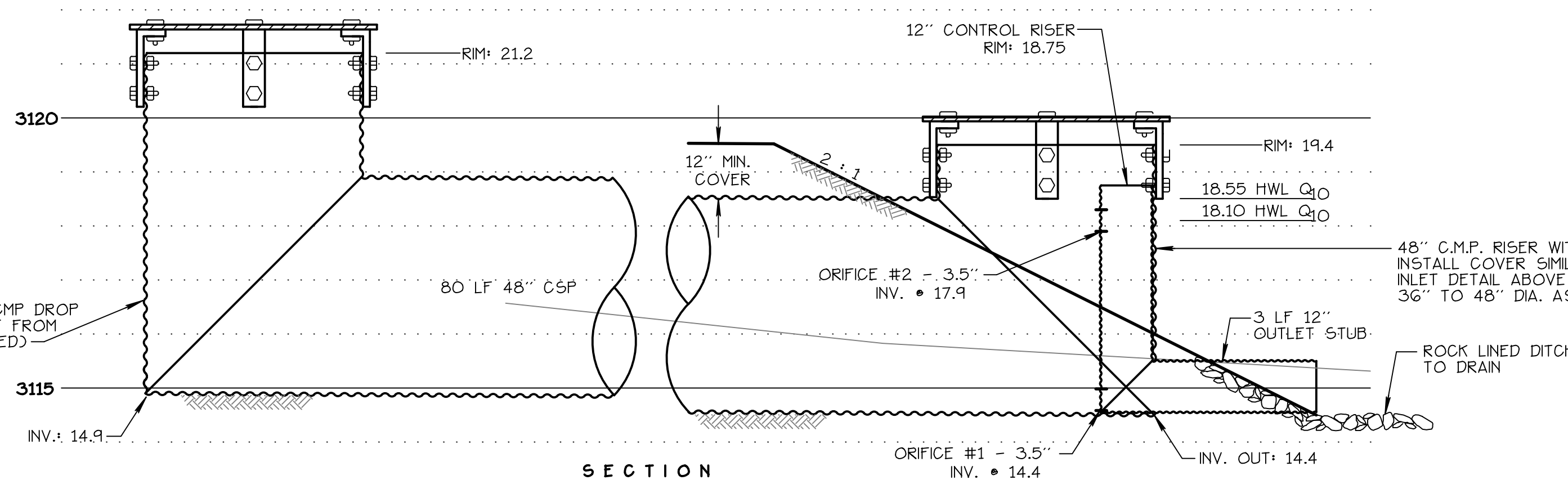
- ALL C.S.P. FABRICATED FITTING JOINTS SHALL BE FULLY WELDED AND WATERTIGHT

- AFTER FABRICATION, GALVANIZE ALL WELD AREAS AND DIAMOND PLATE AS PER STATE STD. SPECS. SECTION 75-1.05

- EXCAVATION FOR THE FACILITY SHOWN SHALL EXTEND A MINIMUM OF 12" HORIZ. BEYOND ALL SIDES AND 3" MIN. BELOW. BACKFILL SHALL BE SELF COMPACTING AND PERMIABLE. PROVIDE A MINIMUM 4" PIT DRAIN TO DAYLIGHT.



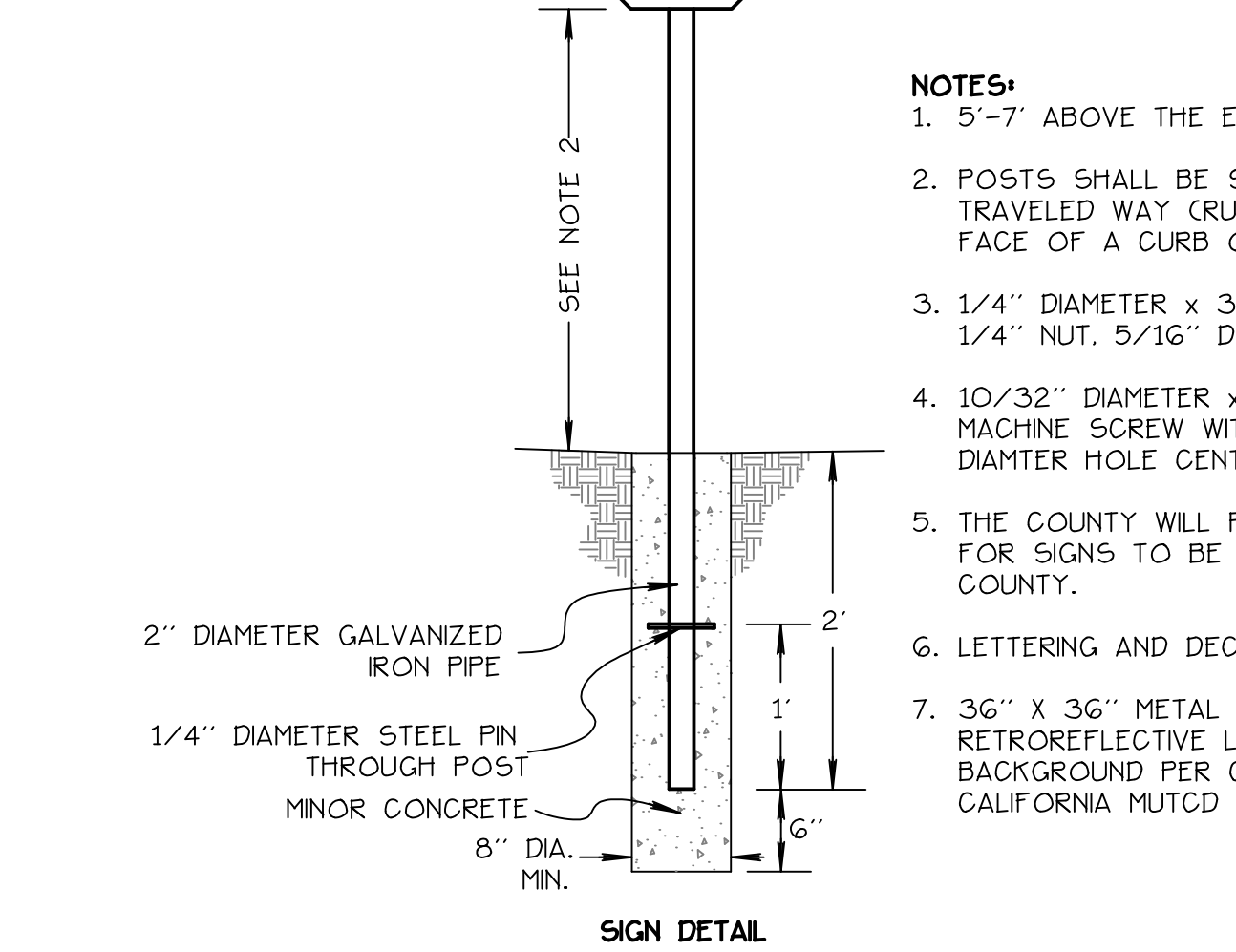
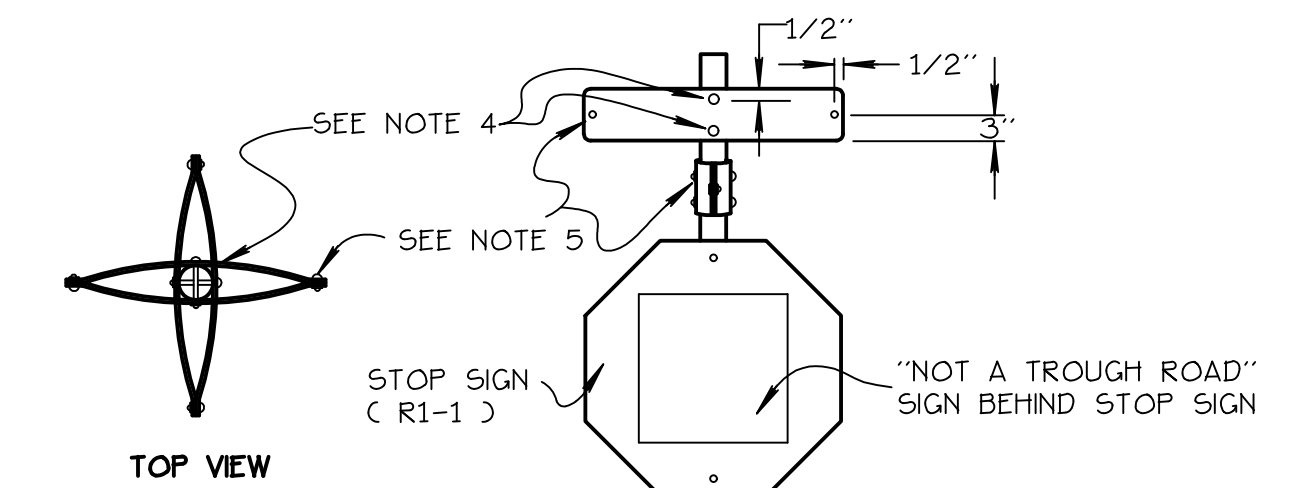
PLAN



SECTION

DETENTION FACILITY DETAILS

SCALE: 1/2" = 1'-0"



SIGN DETAIL

- MECHANICALLY APPLIED DRY ADHESIVE REFLECTIVE SHEETING (SCOTCHLITE ENG. GRADE GOLD OR EQUAL) AND LETTERING (SCOTCHCAL STYLE GO5 SERIES B, BLACK UPPER CASE OR EQUAL). PRIVATE ROADS SHALL BE GREEN BACKGROUND WITH WHITE LETTERING.**
- NOTES:**
- 5'-7" ABOVE THE EDGE OF TRAVELED WAY.
 - POSTS SHALL BE SET 12" MINIMUM FROM TRAVELED WAY (RURAL) OR 2" FROM THE FACE OF A CURB OR DIKE (URBAN).
 - 1/4" DIAMETER x 3" CARRIAGE BOLT WITH 1/4" NUT, 5/16" DIAMETER HOLE.
 - 10/32" DIAMETER x 3/4" FLAT HEAD MACHINE SCREW WITH 10/32" NUT, 3/8" DIAMETER HOLE CENTERED ON PLATE.
 - THE COUNTY WILL PROVIDE DECAL (5" DIA.) FOR SIGNS TO BE MAINTAINED BY THE COUNTY.
 - LETTERING AND DECAL TO BE CENTERED.
 - 36" X 36" METAL SIGN WITH WHITE RETROREFLECTIVE LETTERS ON A RED BACKGROUND PER CHAPTER 2A, PART 2, CALIFORNIA MUTCD 2012 EDITION.



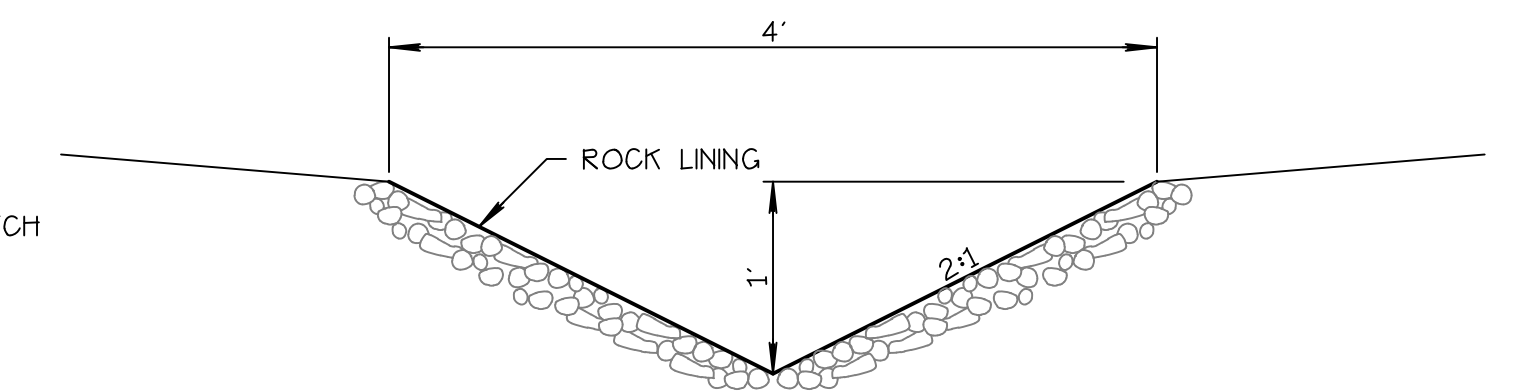
SIGN PLATE DETAIL

STREET + STOP SIGN ASSEMBLY

SCALE: N.T.S.

NOTE:

- ROCK LINING TO BE NO. 2 BACKING PLACED A MINIMUM OF 12" THICKNESS, METHOD "B" PLACEMENT WHEN FLOWLINE SLOPE IS ≥ 5%. OTHERWISE GRASS LINING WITH EROSION CONTROL SEED MIXTURE SHALL BE USED.



ROCK LINED DITCH

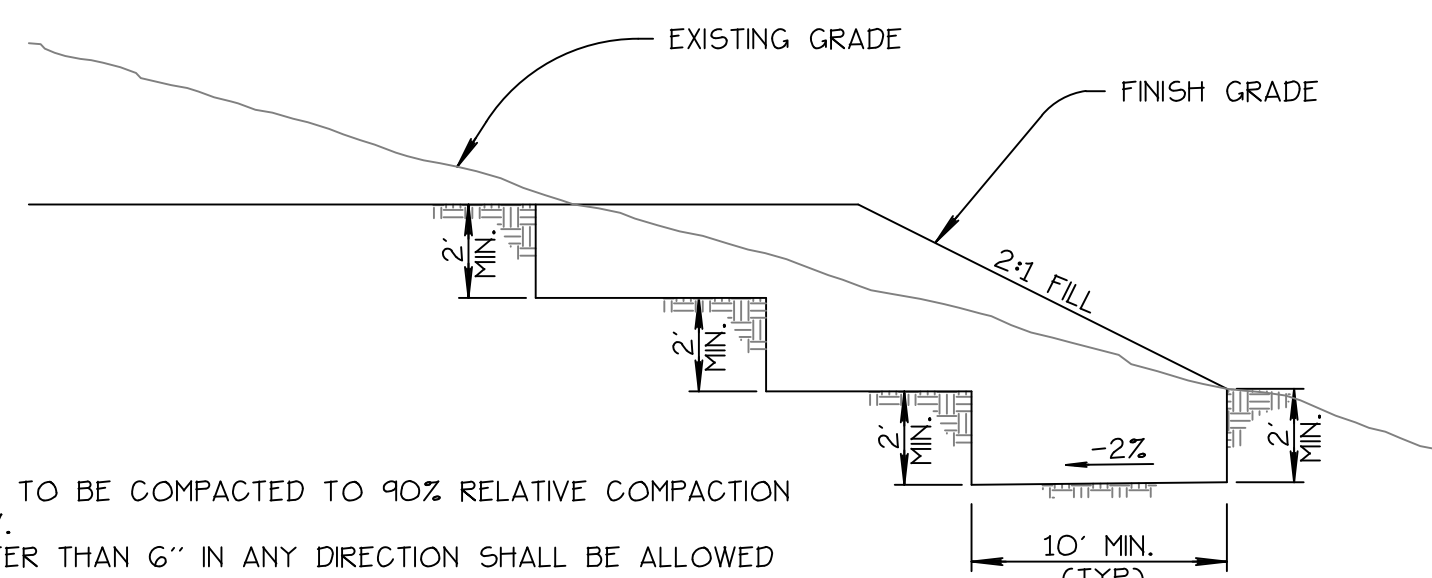
SCALE: N.T.S.

NOTES:

- ALL FILL MATERIAL TO BE COMPACTED TO 90% RELATIVE COMPACTION PER ASTM D-1557.
- NO ROCKS GREATER THAN 6" IN ANY DIRECTION SHALL BE ALLOWED AS PART OF THE FILL.
- FILL MATERIAL SHALL BE PLACED IN UNCOMPACTED LIFTS NOT TO EXCEED 8".
- FILL SLOPES SHALL BE CONSTRUCTED BY OVERBUILDING SLOPE FACE THEN CUTTING IT BACK TO MATCH THE DESIGN GRADIENT.

TYPICAL FILL EMBANKMENT DETAIL

SCALE: N.T.S.



RECORD DRAWING

IMPROVEMENT PLANS FOR
Deer Creek Park Iia
NEVADA COUNTY, CALIFORNIA

PREPARED BY
NEVADA CITY ENGINEERING, INC.
505 COYOTE STREET - P.O. BOX 1437 - NEVADA CITY - CALIFORNIA

DESIGNED	NCL	DATE	04/19/10	JOB NO.	98-061
DRAWN	NCE	SHEET	3	OF	12

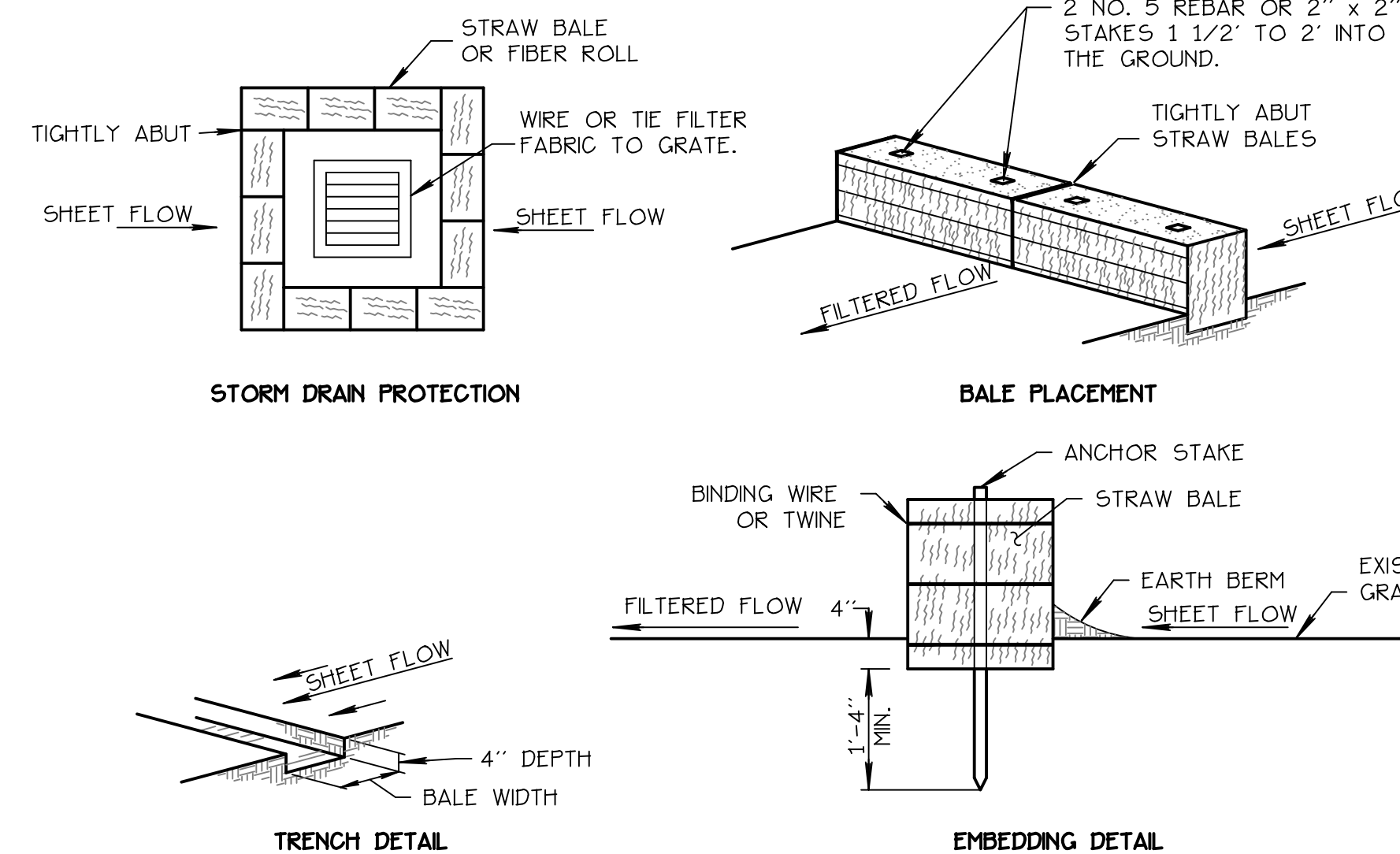
EROSION CONTROL NOTES

1. THE PROPERTY OWNER SHALL BE RESPONSIBLE FOR ENSURING THAT ALL ADEQUATE DUST CONTROL MEASURES ARE IMPLEMENTED IN A TIMELY MANNER DURING ALL PHASES OF PROJECT DEVELOPMENT AND CONSTRUCTION.
2. DUST AND MUD CONTROL SHALL BE PROVIDED AT ALL TIMES INCLUDING EVENINGS, WEEKENDS, AND HOLIDAYS. AT LEAST ONE MOBILE UNIT WITH A MINIMUM CAPACITY OF 1,000 GALLONS SHALL BE AVAILABLE AT ALL TIMES FOR APPLYING WATER OR A PALLIATIVE ON THE AFFECTED AREAS AND ACCESS ROADS.
3. SEED, FERTILIZER, AND MULCH SHALL BE APPLIED BETWEEN SEPTEMBER 15 AND OCTOBER 15 (IF POSSIBLE, SEEDING SHOULD OCCUR TOWARDS THE MID-OCTOBER END OF THIS RANGE). REMOVAL OF NATIVE VEGETATION SHALL BE MINIMIZED.
4. ALL DISTURBED SOILS SHALL BE REVEGETATED BY APPLYING THE FOLLOWING SEED MIX BY BROADCAST OR HYDROSEED METHOD. IF HYDRO SEEDING, SEED RATES SHALL BE INCREASED BY 25%.
 - 3 lbs./acre ZORRO-DEAWNED FESCUE (FESTUCA MEGALURA)
 - 7 lbs./acre BERBER ORCHARDGRASS (DACTYLIS GLOMERATA)
 - 8 lbs./acre HYKON ROSE CLOVER (TRIFOLIUM HIRTUM)
 - 17 lbs./acre LUNA PUBESCENS WHEATGRASS
 - 1 lbs./acre BABY BLUE EYES (MEMOPILA INSIGNIS)
 - 3 lbs./acre CALIFORNIA POPPY (ESCHSCHOLZIA CALIFORNIACA)
 - 1 lbs./acre ARROYO LUPINE (LUPINUS SUGCULENTUS)
 - (INOCULATED WITH PROPER STRAIN OF RHIZOBIUM BACTERIA)

- A. THE HYDROMULCH SHALL BE APPLIED IN THE FORM OF A SLURRY CONSISTING OF WOOD CELLULOSE FIBER (EITHER CONWOOD OR WEYERHAUSER, APPLIED AT A RATE OF 2,000 LBS. PER ACRE), WATER, AND COMMERCIAL FERTILIZER. WHEN HYDRAULICALLY SPRAYED ON THE SOIL SURFACE, THE HYDROMULCHING SHALL FORM A BLOTTER-LIKE GROUND COVER IMPREGNATED UNIFORMLY WITH SEED AND FERTILIZER AND SHALL ALLOW THE ABSORPTION OF MOISTURE AND RAINFALL TO PERCOLATE UNDERLYING SOIL. SEEDING SHALL OCCUR FROM MID-SEPTEMBER THROUGH MID-OCTOBER.
 - B. HYDRAULIC EQUIPMENT USED FOR THE APPLICATION OF FERTILIZER, SEED, AND SLURRY OF PREPARED WOOD PULP SHALL BE OF THE "SUPER HYDRO-SEEDER" TYPE AS APPROVED BY THE ENGINEER. SLURRY PREPARATION SHALL TAKE PLACE AT THE SITE OF WORK AND SHALL BE MIXED IN A MANNER CONSISTENT WITH THE MANUFACTURER'S EQUIPMENT AND SPECIFICATIONS.
 - C. THE OPERATOR SHALL SPRAY THE AREA WITH A UNIFORM, VISIBLE COAT BY USING THE GREEN COLOR OF THE WOOD PULP AS A GUIDE. THE SLURRY SHALL BE APPLIED IN A SWEEPING MOTION IN AN ARCHED STREAM SO AS TO FALL LIKE RAIN, ALLOWING THE WOOD FIBERS TO BUILD UPON EACH OTHER UNTIL A GOOD COAT IS ACHIEVED AND THE MATERIAL IS SPREAD AT THE REQUIRED RATE PER ACRE.
 - D. ALL SLURRY MIXTURE NOT APPLIED WITHIN FOUR HOURS AFTER MIXING SHALL BE REJECTED AND REMOVED FROM THE TANK.
 - E. ALL SLURRY SPILLED INTO RESTRICTED AREAS MUST BE CLEANED UP AT THE CONTRACTOR'S EXPENSE.
 - F. FERTILIZER SHALL BE AMMONIUM PHOSPHATE 16-20-0, APPLIED AT A RATE OF 500 LBS. PER ACRE. PROVIDE AN ADDITIONAL 500 LBS. OF FERTILIZER PER ACRE IN THE FOLLOWING SPRING.
6. IF HYDROMULCH IS NOT USED THEN, ADEQUATE COVERAGE OF LOOSE MULCH (E.G. WEED FREE STRAW) MUST BE APPLIED. THE LOOSE MULCH SHOULD NOT COVER THE SOIL SURFACE ENTIRELY BUT, ALLOW 10-20% VOIDS TO ALLOW MAXIMUM SEED GERMINATION.
 7. IF EXCAVATION AND GRADING ACTIVITIES PROCEED PAST OCTOBER 15, A TEMPORARY SEDIMENTATION AND EROSION CONTROL PLAN SHALL BE ORIGINATED BY A QUALIFIED CIVIL ENGINEER, AND APPROVED BY THE NEVADA COUNTY RESOURCE CONSERVATION DISTRICT. THE MEASURES SPECIFIED IN THE TEMPORARY SEDIMENTATION AND EROSION CONTROL PLAN SHALL BE EMPLOYED NO LATER THAN NOVEMBER 1.
 8. SILT FENCING SHALL BE INSTALLED A MINIMUM OF 10 FEET FROM THE WETLAND EDGE PRIOR TO CONSTRUCTION. WHEN WORK IS COMPLETE, THE SILT FENCING SHALL BE COMPLETELY REMOVED AND ANY ACCUMULATED SEDIMENT STABILIZED IN PLACE BY SEED AND ADEQUATE MULCH.
 9. IF EXCAVATION AND GRADING ACTIVITIES PROCEED PAST OCTOBER 15, THE CONTRACTOR SHALL HAVE STOCKPILED ON-SITE ADEQUATE SUPPLIES OF STRAW, SILTATION FENCING, STAKES, AND ANY OTHER FACILITIES NECESSARY TO IMPLEMENT EMERGENCY OR TEMPORARY EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION.

BEST MANAGEMENT PRACTICES

1. THE FOLLOWING BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED TO CONTROL POLLUTANT SOURCES AND RISKS ASSOCIATED WITH THE HANDLING AND STORAGE OF CONSTRUCTION MATERIALS AND EQUIPMENT AS WELL AS WITH WASTE MANAGEMENT AND DISPOSAL:
 - A. STORE CONSTRUCTION RAW MATERIALS (E.G. DRY MATERIALS SUCH AS PLASTER AND CEMENT, PESTICIDES AND HERBICIDES PAINTS, PETROLEUM PRODUCTS, TREATED LUMBER, ETC.) IN DESIGNATED AREAS THAT ARE LOCATED AWAY FROM STORM DRAIN INLETS, DRAINAGE WAYS, AND CANALS AND SURROUNDED BY EARTHEN BERMS. TRAIN THE CONSTRUCTION EMPLOYEES WORKING ON THE SITE IN PROPER MATERIAL HANDLING PRACTICE TO ENSURE THAT, TO THE MAXIMUM EXTENT PRACTICABLE, THOSE MATERIALS THAT ARE SPREAD THROUGHOUT THE SITE ARE COVERED WITH IMPERVIOUS TARPS OR STORED INSIDE BUILDINGS.
 - B. WHENEVER POSSIBLE, WASH OUT CONCRETE TRUCKS OFFSITE IN COUNTY OR CITY DESIGNATED AREAS. WHEN THE TRUCKS ARE WASHED ON THE SITE, CONTAIN THE WASH WATER IN A TEMPORARY PIT ADJACENT TO THE PRESENT CONSTRUCTION ACTIVITY WHERE WASTE CONCRETE CAN HARDEN FOR LATER REMOVAL. AVOID WASHING FRESH CONCRETE FROM THE TRUCKS UNLESS THE RUNOFF IS DRAINED TO A BERM OR LEVEL AREA AWAY FROM SITE WATERWAYS AND STORM DRAIN INLETS.
 - C. COLLECT NON-HAZARDOUS WASTE CONSTRUCTION MATERIALS (I.E. WOOD, PAPER, PLASTIC, CLEARED TREES AND SHRUBS, BUILDING RUBBLE, SCRAP METAL, RUBBER, GLASS, ETC.) AND DEPOSIT IN COVERED DUMPSTERS AT A DESIGNATED WASTE STORAGE SITE. STORE RECYCLABLE CONSTRUCTION MATERIALS SEPARATELY FOR RECYCLING AND TRANSPORT THE REMAINING SOLID WASTE TO A PERMITTED LANDFILL.
 - D. STORE HAZARDOUS MATERIALS IN PORTABLE METAL SHEDS WITH SECONDARY CONTAINMENT. DO NOT MIX STORED HAZARDOUS WASTE WITH OTHER WASTE PRODUCED ON THE SITE. THE QUANTITIES OF THESE MATERIALS STORED ON THE WILL REFLECT THE QUANTITIES NEEDED FOR SITE CONSTRUCTION. AVOID OVER-APPLICATION OF FERTILIZERS, HERBICIDES, AND PESTICIDES. CONTRACT WITH A CERTIFIED WASTE COLLECTION CONTRACTOR TO COLLECT HAZARDOUS WASTES FOR DISPOSAL AT AN APPROVED HAZARDOUS WASTE FACILITY.
 - E. DISPOSE OF WASTE OIL AND OTHER EQUIPMENT MAINTENANCE WASTE AT THE SITE OR REMOVED FROM THE SITE IN COMPLIANCE WITH FEDERAL, STATE, AND LOCAL LAWS, REGULATIONS AND ORDINANCES.

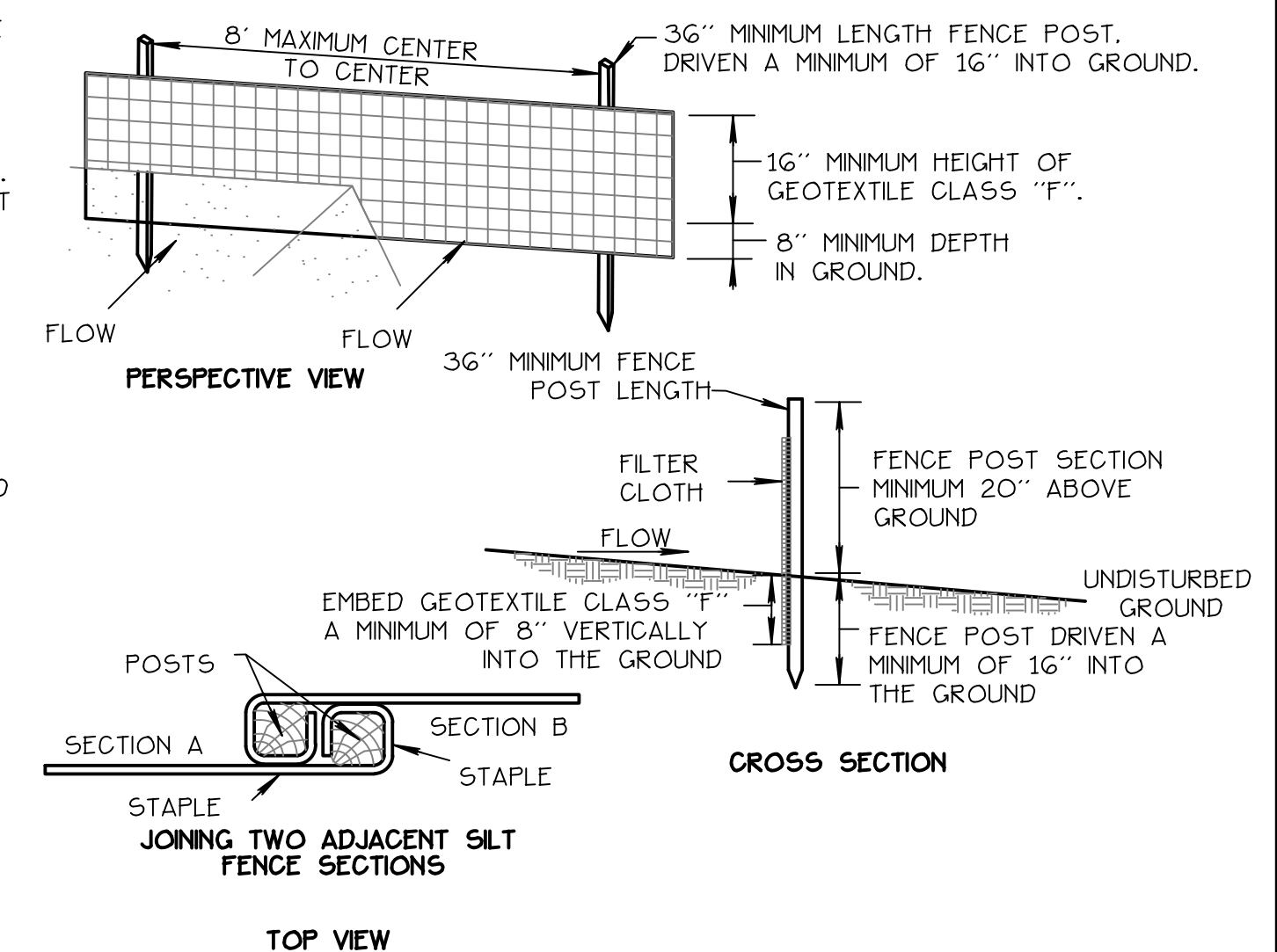


STRAW BALE SEDIMENT BARRIER DETAIL

SCALE: N.T.S.

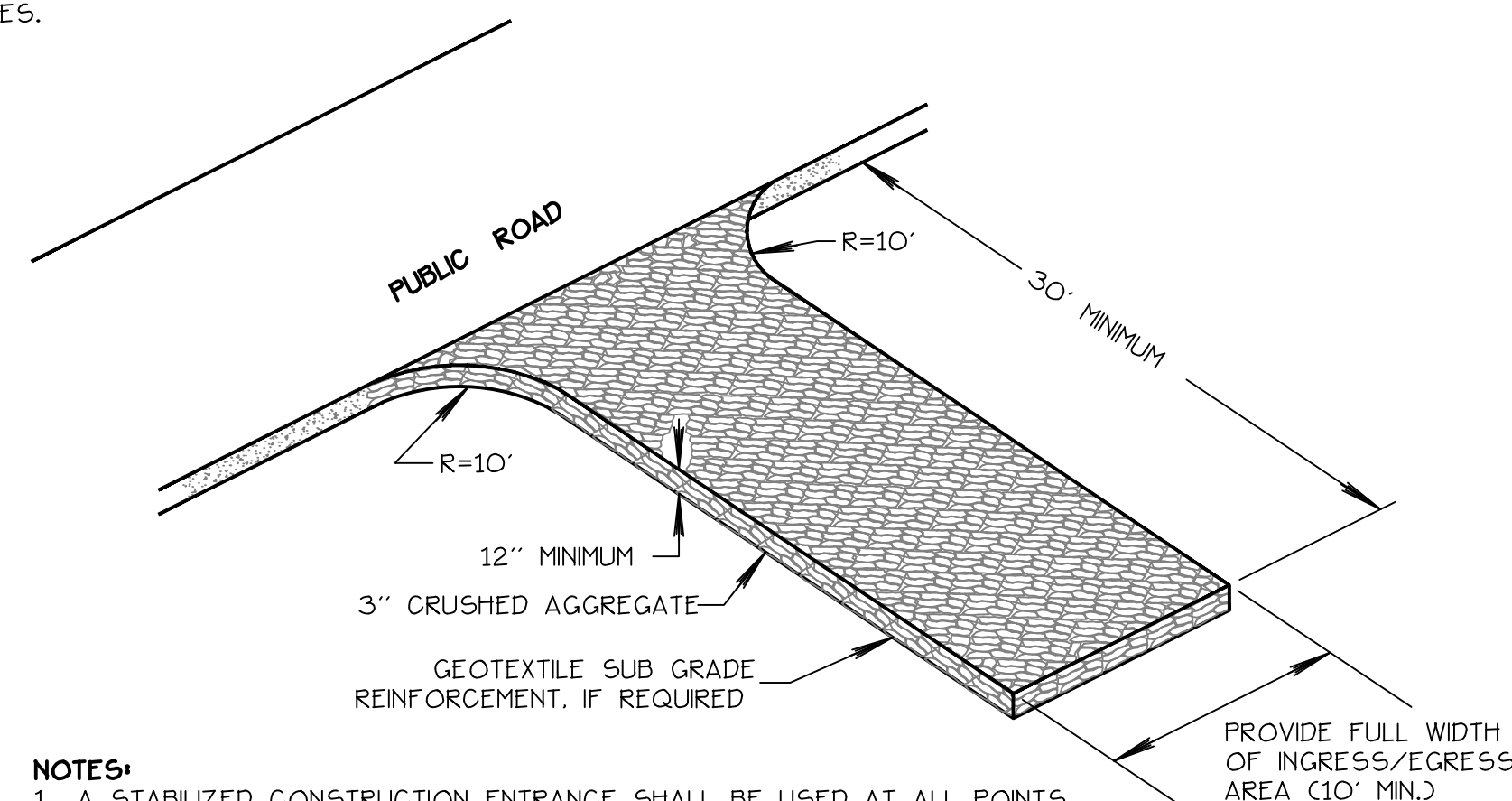
NOTES:

1. DO NOT USE IN STREAMS, CHANNELS, DRAIN INLETS, OR ANYWHERE FLOW IS CONCENTRATED. DO NOT USE TO DIVERT FLOW.
2. THE MAXIMUM LENGTH OF SLOPE DRAINING TO ANY POINT ALONG THE SILT FENCE SHOULD BE 200 FEET OR LESS.
3. SILT FENCE FABRIC SHOULD BE WOVEN POLYPROPYLENE WITH A MINIMUM WIDTH OF 36-INCHES AND A MINIMUM TENSILE STRENGTH OF 100 LB FORCE.
4. THE FOLLOWING CRITERIA IS RECOMMENDED FOR SELECTION OF THE FABRIC EQUIVALENT OPENING SIZE (E.O.S.):
 - A. IF 50% OR LESS OF THE SOIL, BY WEIGHT, WILL PASS THE U.S. STANDARD SIEVE NO. 200, SELECT THE E.O.S. TO RETAIN 85% OF THE SOIL. THE E.O.S. SHOULD NOT BE FINER THAN U.S. STANDARD SIEVE NO. 70.
 - B. FOR ALL OTHER SOIL TYPES, THE E.O.S. SHOULD BE NO LARGER THAN THE OPENINGS IN THE U.S. STANDARD SIEVE NO. 70 EXCEPT WHERE DIRECT DISCHARGE TO A STREAM, LAKE, OR WETLAND WILL OCCUR. THEN THE E.O.S. SHOULD BE NO LARGER THAN U.S. STANDARD SIEVE NO. 100.
5. CONNECTION/JOINING OF SILT FENCES SHALL BE COMPLETED BY TIGHTLY OVERLAPPING THE ENDS OF THE ROLLS A MINIMUM OF 12-INCHES OR BY OVERLAPPING THE END POSTS AND SECURING THE TWO POSTS TOGETHER TIGHTLY WITH PLASTIC WIRE TIES AND/OR STEEL BAILING WIRE (9 GAUGE OR HEAVIER).
6. STAKES SHALL BE SPACED AT 8-FOOT MAXIMUM AND SHALL BE POSITIONED ON DOWNSTREAM SIDE OF FENCE.
7. STAPLES USED TO FASTEN THE FENCE FABRIC TO THE STAKES SHOULD BE NOT LESS THAN 1.25-INCHES LONG AND SHOULD BE FABRICATED FROM 15 GAUGE OR HEAVIER WIRE. PLASTIC WIRE TIES AND/OR STEEL BAILING WIRE (9 GAUGE OR HEAVIER) MAY BE SUBSTITUTED. NOT LESS THAN 4 STAPLES/TIES SHALL BE USED ON EACH STAKE.
8. THE LAST 8-FOOT OF FENCE'S SHALL BE TURNED UPSLOPE.
9. SILT FENCES SHOULD BE LEFT IN PLACE, REGULARLY INSPECTED, AND MAINTAINED UNTIL THE UPSTREAM AREA IS PERMANENTLY STABILIZED.
10. SEDIMENT SHOULD BE REMOVED BEFORE THE SEDIMENT ACCUMULATION REACHES ONE-THIRD OF THE BARRIER HEIGHT.



SILT FENCE SEDIMENT BARRIER

SCALE: N.T.S.

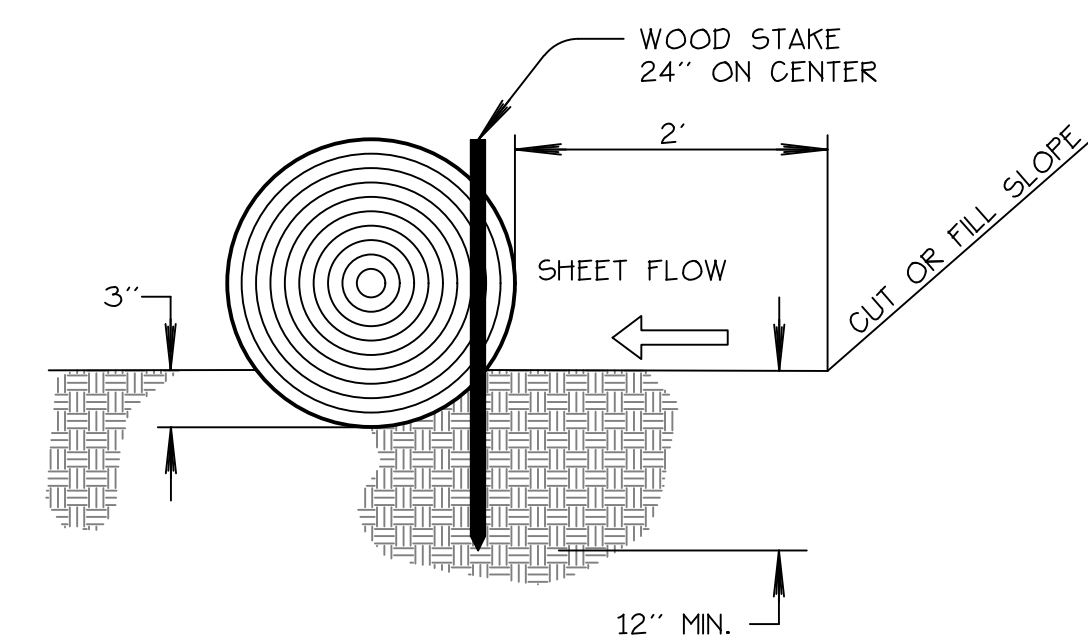


NOTES:

1. A STABILIZED CONSTRUCTION ENTRANCE SHALL BE USED AT ALL POINTS OF CONSTRUCTION INGRESS AND EGRESS.
2. THE AGGREGATE SHALL BE 3 IN. CRUSHED ROCK.
3. THE ENTRANCE SHALL BE PROPERLY GRADED TO PREVENT RUNOFF FROM LEAVING THE CONSTRUCTION SITE.
4. THE ENTRANCE SHALL BE CONSTRUCTED ON LEVEL GROUND.
5. PERIODIC TOP DRESSING WITH ADDITIONAL STONE SHALL BE PROVIDED TO ENSURE THE INTEGRITY OF THE ENTRANCE DURING CONSTRUCTION.
6. THE ENTRANCE SHALL BE INSPECTED MONTHLY AND AFTER EACH RAINFALL.
7. CRUSHED ROCK MATERIAL SHALL BE ADDED WHEN SURFACE VOIDS ARE NOT VISIBLE.
8. ALL SEDIMENT DEPOSITS ON PAVED ROADWAYS SHALL BE REMOVED WITHIN 24 HOURS.
9. THE CRUSHED ROCK AND GEOTEXTILE SHALL BE REMOVED AT COMPLETION OF CONSTRUCTION.

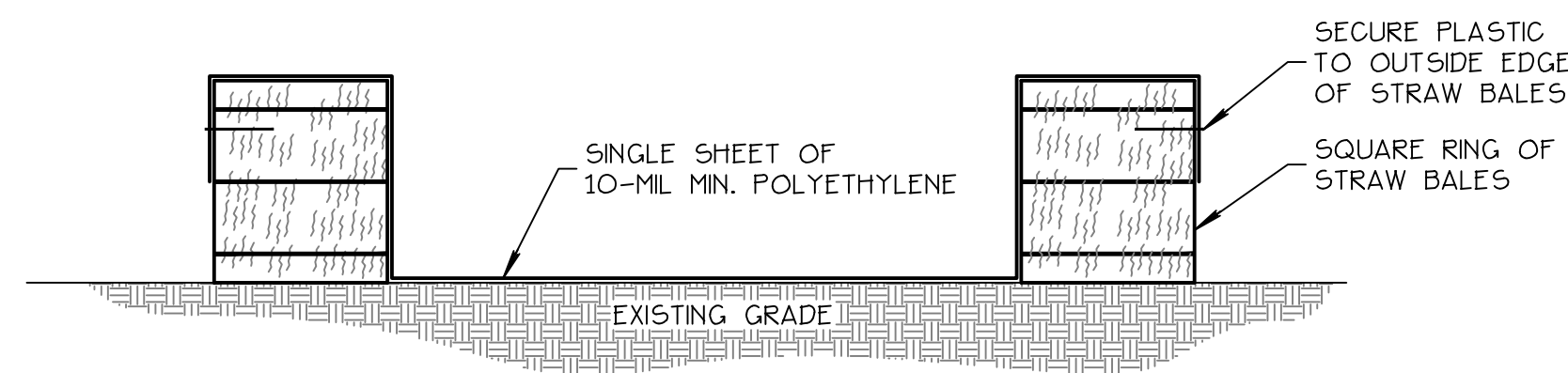
CONSTRUCTION ENTRANCE

SCALE: N.T.S.



FIBER ROLL SEDIMENT BARRIER

SCALE: N.T.S.

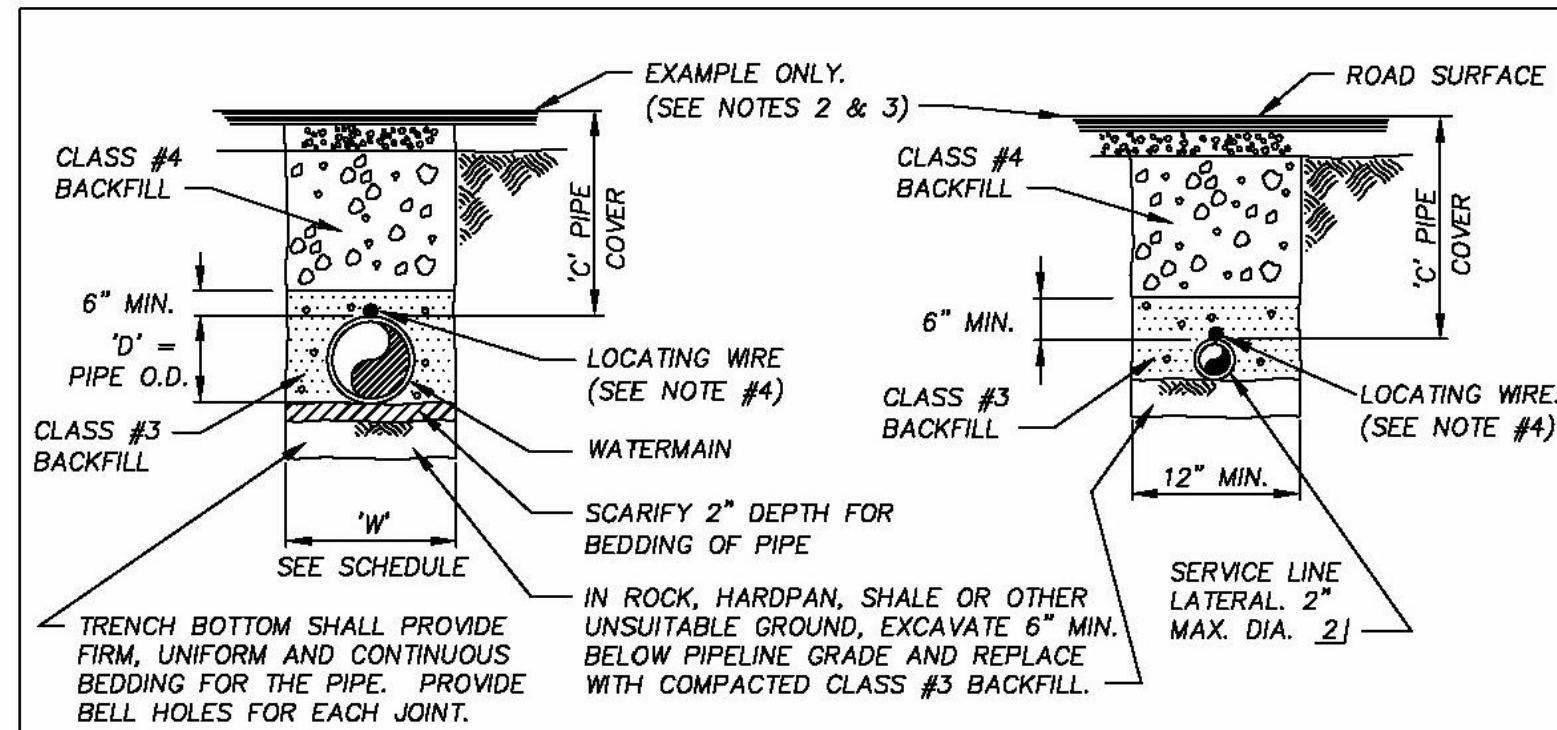


CONCRETE WASHOUT PIT DETAIL

SCALE: N.T.S.

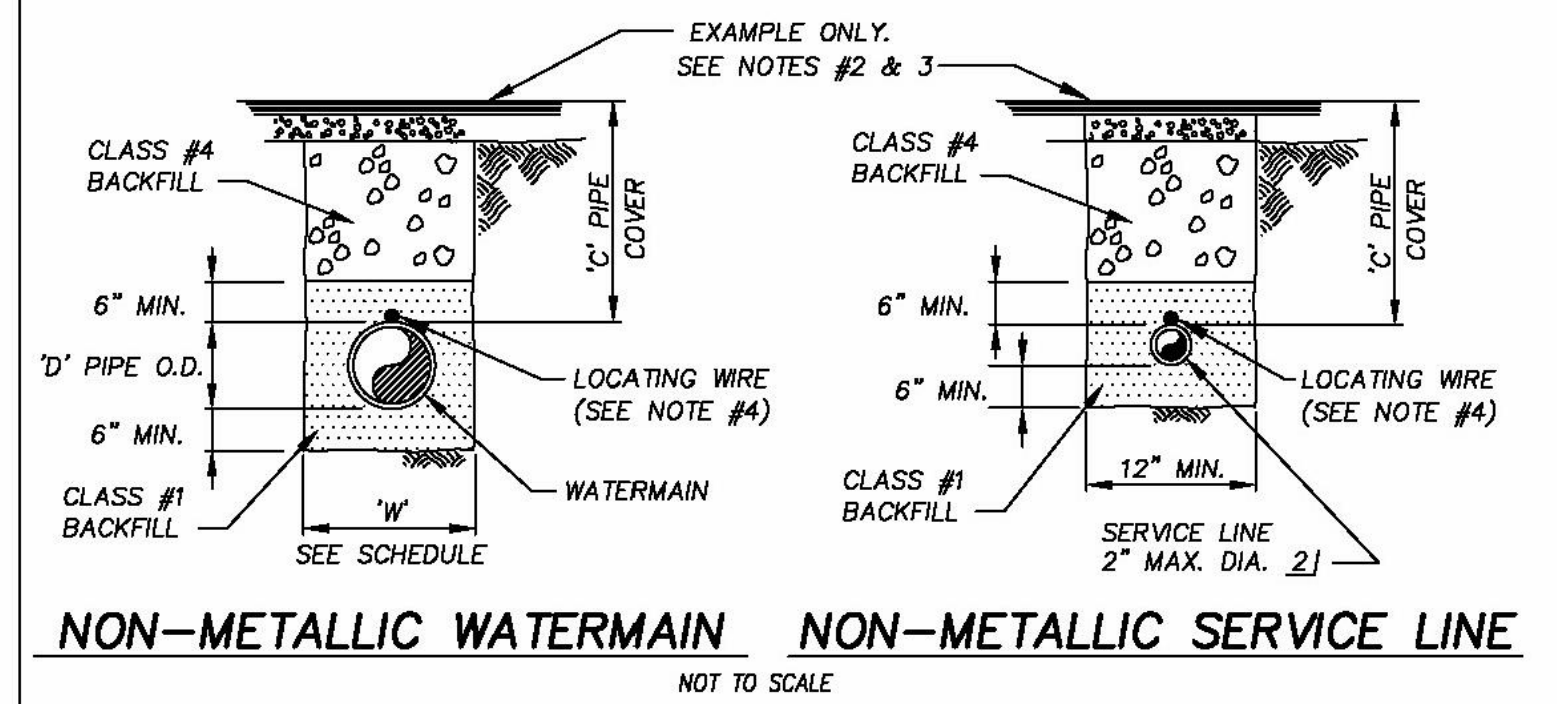
RECORD DRAWING

IMPROVEMENT PLANS FOR			
Deer Creek Park IIa			
NEVADA COUNTY	EROSION CONTROL DETAILS	CALIFORNIA	
PREPARED BY			
NEVADA CITY ENGINEERING, INC.			
505 COYOTE STREET - P.O. BOX 1437 - NEVADA CITY - CALIFORNIA			
DESIGNED	NCL	DATE	JOB NO.
		04/19/10	98-061
DRAWN	NCE	SHEET	4 OF 12
NO.	DATE	REVISION	



METALLIC WATERMAIN

METALLIC SERVICE LINE, ARV & B/O LATERALS



NON-METALLIC WATERMAIN

NON-METALLIC SERVICE LINE

WATERMAIN, SERVICE LINE AND LATERAL TRENCH DETAILS

NID SD1

- NOTES:
1. ALL MATERIALS AND INSTALLATION SHALL CONFORM TO "WATERMAINS" AND "SERVICE ASSEMBLIES" IN THE SPECIFICATIONS.
 2. TRENCH DETAILS FOR PIPELINES LOCATED ALONG OR ACROSS ROADWAYS SHALL CONFORM TO REQUESTS OF THE APPROPRIATE REGULATORY BODY.
 3. TRENCHES LOCATED OUTSIDE OF ROADWAYS SHALL HAVE BACKFILL SLIGHTLY MOUNDED OVER THE TRENCH UNLESS DETERMINED BY THE DISTRICT ENGINEER THAT A MOUND IS NOT NECESSARY.
 4. LOCATING WIRE SHALL BE COATED TO GAUGE SOLID COPPER AND SHALL CONFORM TO DRAWING NID SD3.
 5. LOCATING WIRE SHOULD BE TAPED TO PIPE.
 6. COMMON TRENCH WITH OTHER UTILITIES WILL NOT BE ALLOWED.

TRENCH WIDTH 'W' SCHEDULE		
WATERMAIN SIZE 'D'	MIN. TRENCH WIDTH FOR TANGENTS AND CURVES OVER 1000' RADIUS	MIN. TRENCH WIDTH FOR CURVES LESS THAN 1000' RADIUS
4"	18"	24"
6" & 8"	24"	30"
10" & LARGER	O.D. + 16"	O.D. + 16"

PIPE COVER 'C' SCHEDULE		
ITEM	MIN.	MAX.
WATERMAIN	PER PROFILE ON PLAN SHEETS	
SERVICE LINE & LATERALS	24"	48"
HYDRANT LATERAL	30"	48"

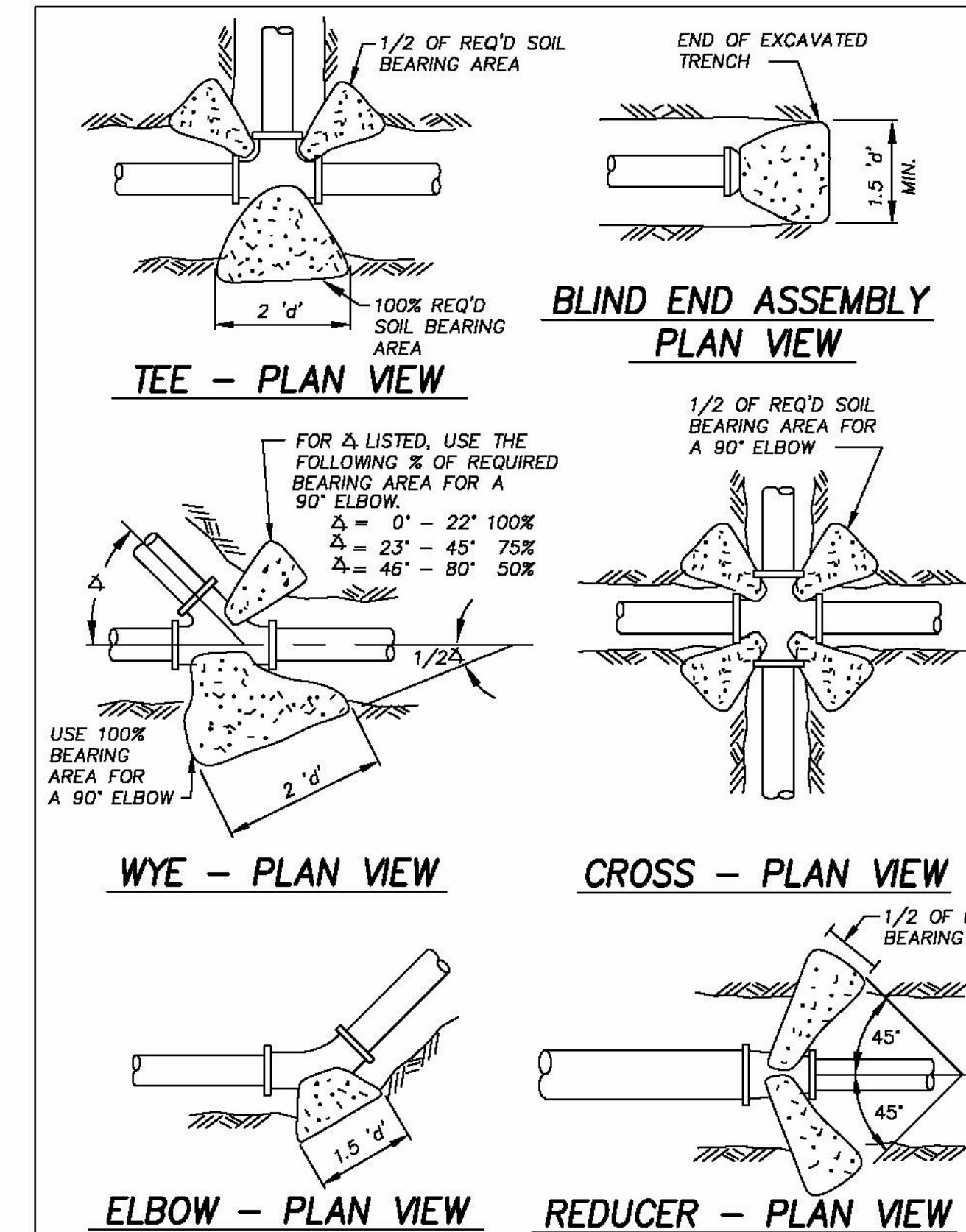
- 1) 2" WATERMAIN INSTALLED AS SERVICE LINE
- 2) SERVICE LINES OR LATERALS OVER 2" SHALL BE INSTALLED AS WATERMAINS.
- 3) THE PROFILE, WHERE SHOWN ON THE PLANS, SHALL GOVERN OVER THIS SCHEDULE.

BACKFILL CLASSIFICATION				
CLASS #1 MATERIAL	SIEVE SIZE	NATURAL SAND	CRUSHED SAND	DECOMPOSED GRANITE
CLEAN SAND-FREE FROM DELETERIOUS MATERIAL WITH S.E. OF AT LEAST 50 AND MEETING THIS PERCENT BY WEIGHT GRADATION.	1-1/2"	100	---	---
	3/4"	75-100	100	100
	NO.4	55-100	75-100	75-100
	NO.200	0-15	0-5	0-5

TRENCH BACKFILL COMPACTION SCHEDULE		
ITEM	INSIDE ROADWAY 4)	OUTSIDE ROADWAY
WATERMAIN	95% MIN.	85% MIN.
SERVICE LINES & ARV LATERALS	95% MIN.	85% MIN.
HYDRANT LATERAL	95% MIN.	95% MIN.

- 4) DEFINED AS AREA BETWEEN TOP OF CUT AND TOE OF FILL OF ROADWAY CROSS SECTION.

BOARD REVIEW: 3-10-10 REVISED: 10-30-12 G.K.



THRUST BLOCKS

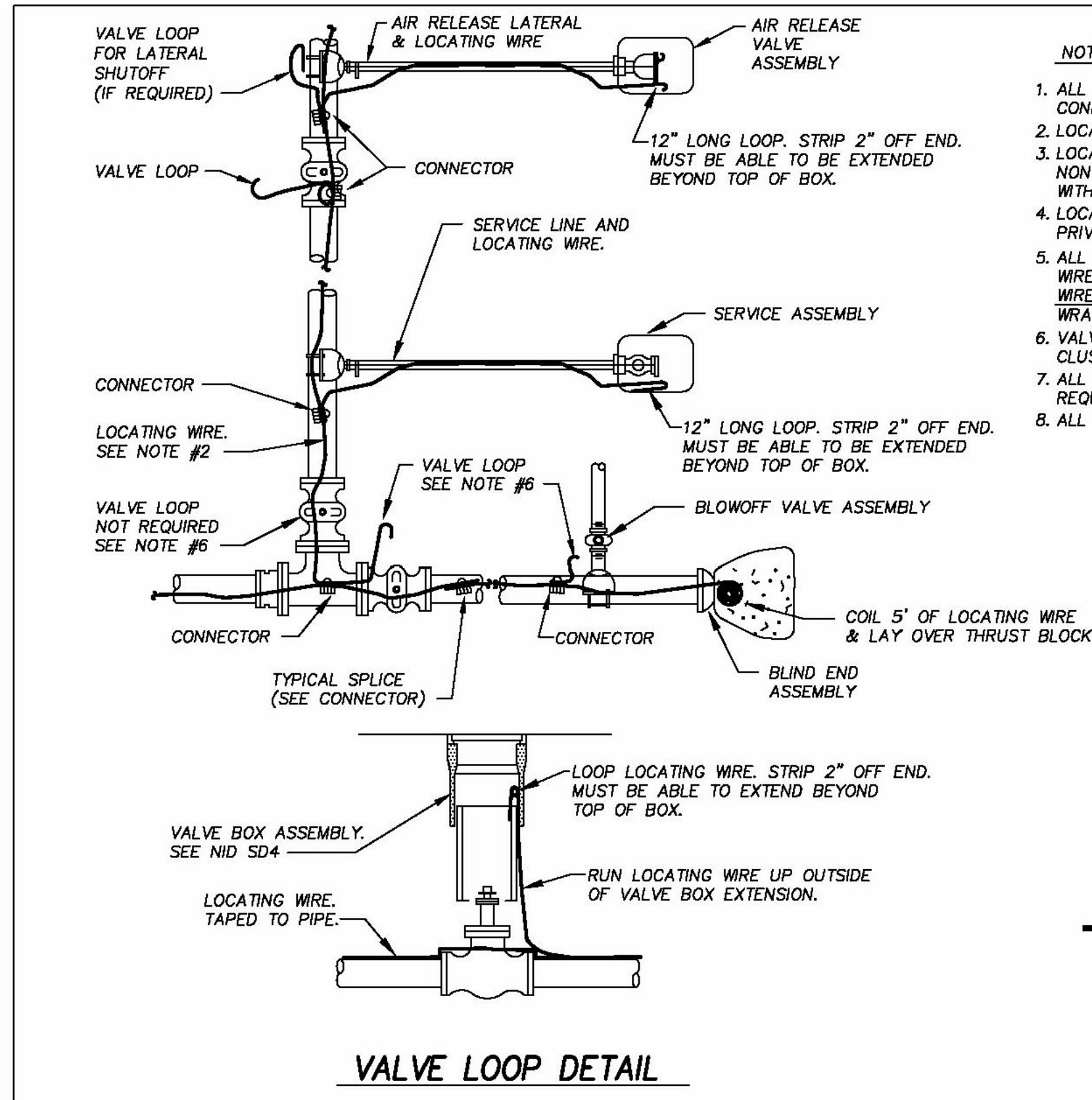
NID SD2

- NOTES:
1. MATERIALS AND INSTALLATION SHALL CONFORM TO REACTION BLOCKING FOR "WATERMAINS" IN THE SPECIFICATIONS.
 2. THRUST BLOCKS SHALL BE PLACED AT ALL HORIZONTAL DEFLECTIONS IN EXCESS OF 6" AND ALL DOWNWARD VERTICAL DEFLECTIONS IN EXCESS OF 6".
 3. MAXIMUM ESTIMATED SOIL BEARING CAPACITY SHALL NOT EXCEED 2,000 P.S.F. UNLESS OTHERWISE APPROVED BY DISTRICT ENGINEER.
 4. MINIMUM SOIL BEARING AREAS ARE BASED ON A WORKING PRESSURE 150 P.S.I. WITH A 1.5 SAFETY FACTOR PLUS 75 P.S.I. SURGE (TOTAL 300 P.S.I.) CALCULATION FOR WORKING PRESSURE HIGHER THAN 150 P.S.I. MUST BE APPROVED BY THE DISTRICT ENGINEER.
 5. CONCRETE SHALL BE PLACED BETWEEN THE FITTING AND UNDISTURBED SOIL.
 6. THRUST BLOCKS SHALL BE NEATLY FORMED USING PLYWOOD OR SANDBAGS. FORMING MATERIALS SHALL BE REMOVED UPON INITIAL CURE OF CONCRETE & PRIOR TO BACKFILLING.
 7. THRUST BLOCKS SHALL BE CONSTRUCTED OF 2,000 PSI CONCRETE.
 8. CONCRETE SHALL NOT BE PLACED ON OR AROUND PIPE, BELLS, FLANGES OR OTHER JOINTS. IF UNAVOIDABLE, AND WITH APPROVAL OF THE DISTRICT ENGINEER, THESE AREAS SHALL BE PROTECTED WITH A DOUBLE WRAP OF 6 MIL POLYETHYLENE FILM.
 9. THRUST BLOCKS PLACED ON BLIND FLANGES ADJACENT TO OTHER THRUST BLOCKS ON THE SAME FITTING SHALL BE SEPARATED FROM THE PERMANENT THRUST BLOCKS WITH A PLYWOOD DIVIDER IN ORDER TO FACILITATE ITS REMOVAL.

THRUST BLOCK SCHEDULE						
PIPE SIZE 1) 2)	MAX. SOIL BEARING CAPACITY (1,000 P.S.F.) SEE NOTE 3	REQUIRED SOIL BEARING (SQ. FT.) - SEE NOTE #4				
		BLIND END OR TEE	ELBOW			REDUCER OR CROSS
		90°-46°	45°-23°	22 1/2°-12°	11 1/4°-6°	
4"	10	2	2	1	1	2
6"	4	3	3	2	1	3
	2	5	6	4	2	6
	1	9	12	8	4	12
8"	10	2	3	2	1	3
	4	3	3	2	1	3
	2	8	11	6	3	11
	1	16	22	12	6	22
10"	10	3	4	2	2	4
	4	6	9	5	3	9
	2	12	17	10	5	17
	1	24	34	20	10	34
12"	10	4	5	3	2	5
	4	9	12	7	3	12
	2	17	24	13	7	24
	1	34	48	26	14	48

- 1) = DEPTH OF SOIL BEARING SURFACE
- 2) REQUIRED SOIL BEARING AREA FOR SIZES LARGER THAN 12" MUST BE APPROVED BY DISTRICT ENGINEER OR SHALL BE AS SHOWN ON THE PLANS.
- 3) FOR 2" PIPE SIZE, USE 25% OF THE TABLE VALUE FOR 4".

BOARD REVIEW: 6-27-14 SD NUMBER REVISED 6-27-14



VALVE LOOP DETAIL

CONNECTOR DETAIL

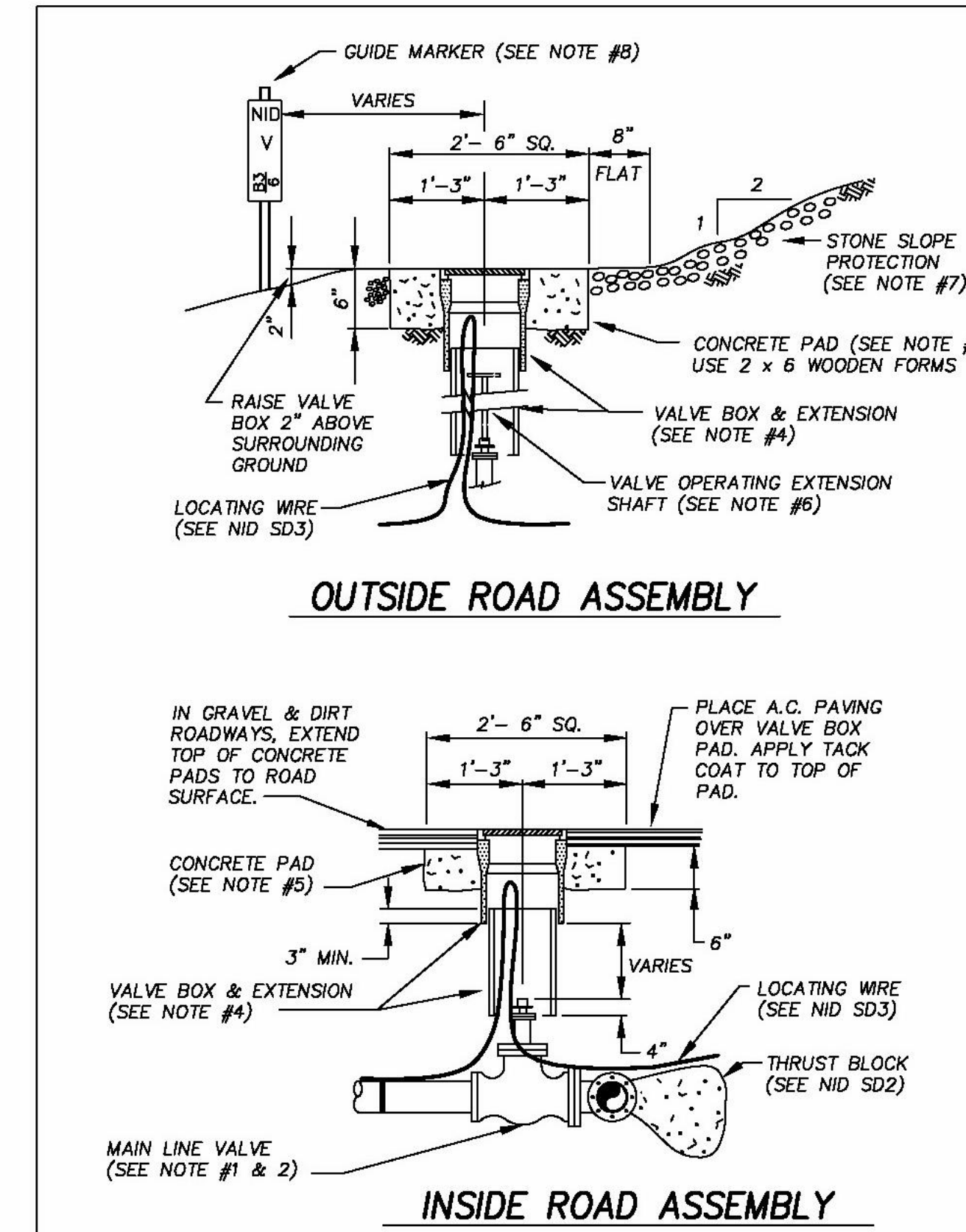
LOCATING WIRE

NOT TO SCALE

NID SD3

- NOTES:
1. ALL MATERIALS AND INSTALLATION SHALL CONFORM TO LOCATING WIRE AND CONNECTORS FOR "WATER MAINS" IN THE SPECIFICATIONS.
 2. LOCATING WIRE SHALL BE COATED TO GAUGE SOLID COPPER.
 3. LOCATING WIRE SHALL BE PLACED ABOVE AND CENTERED OVER ALL NON-METALLIC PIPE AND OVER ALL METALLIC PIPE USING 'O' RING JOINTS WITHOUT BONDING STRAPS.
 4. LOCATING WIRE SHALL BE PLACED OVER ALL SERVICE LINES INCLUDING PRIVATE FIRE SERVICE LATERALS AND AIR RELEASE VALVE LATERALS.
 5. ALL CONNECTORS FOR SPLICES AND OTHER CONNECTIONS TO THE LOCATING WIRES SHALL BE MADE WITH SPLIT BOLT OR PARALLEL CONNECTORS - (NO WIRE NUTS). ALL SPLICES AND CONNECTIONS AND THE CONNECTOR SHALL BE WRAPPED THOROUGHLY WITH VINYL ELECTRICAL TAPE.
 6. VALVE LOOPS ARE REQUIRED FOR ONLY ONE VALVE IN A CLUSTER OF VALVES PROVIDING THEY ARE ALL WITHIN A 2' RADIUS.
 7. ALL BLOWOFF VALVES AND AIR RELEASE LATERAL SHUTOFF VALVES (IF REQUIRED) SHALL BE INSTALLED WITH A LOCATING WIRE VALVE LOOP.
 8. ALL LOCATING WIRE SHALL BE TESTED FOR CONTINUITY.

BOARD REVIEW: 3-10-10 REVISED: 10-30-12 G.K.



MAINLINE VALVE ASSEMBLY

NOT TO SCALE

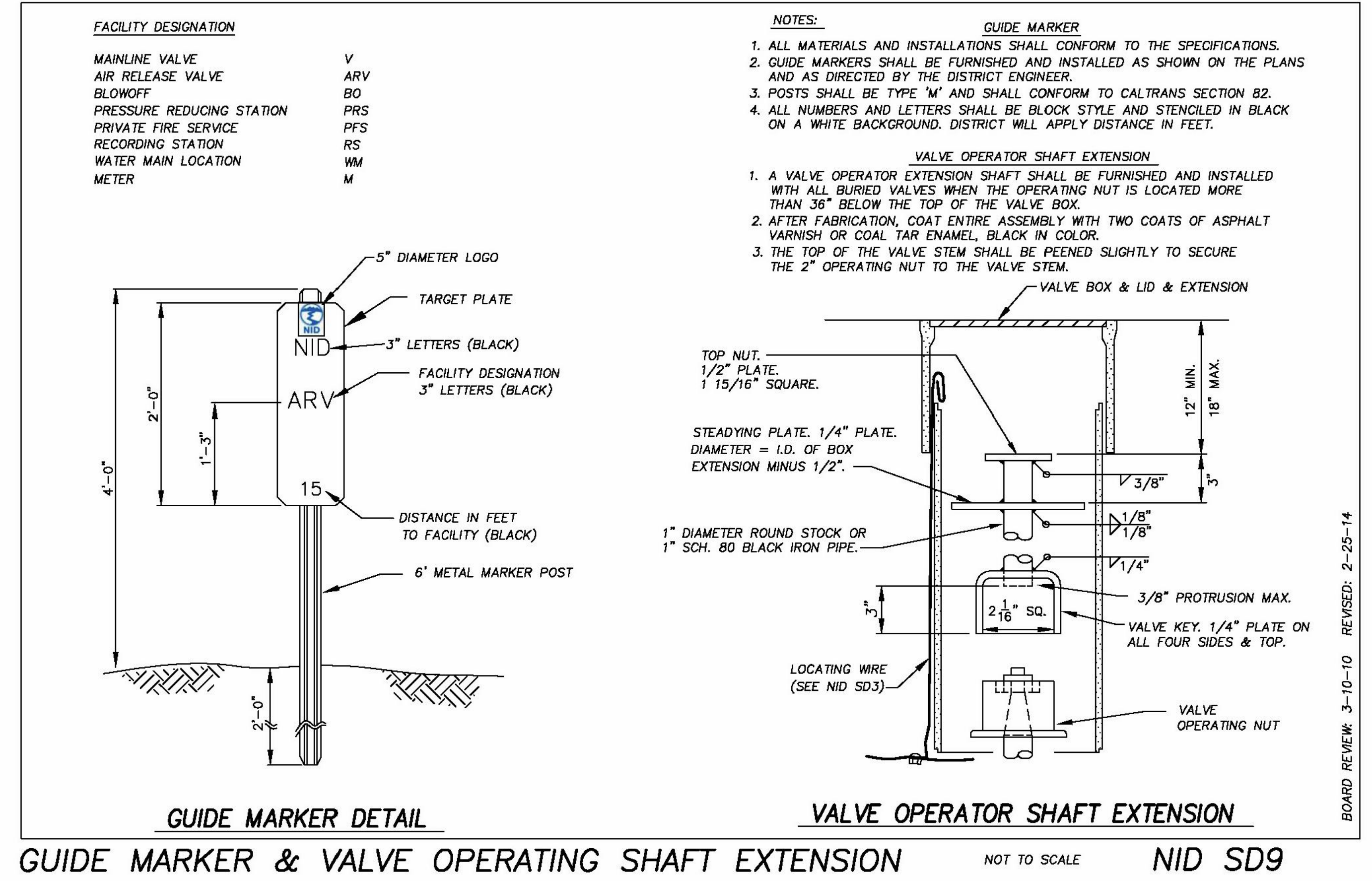
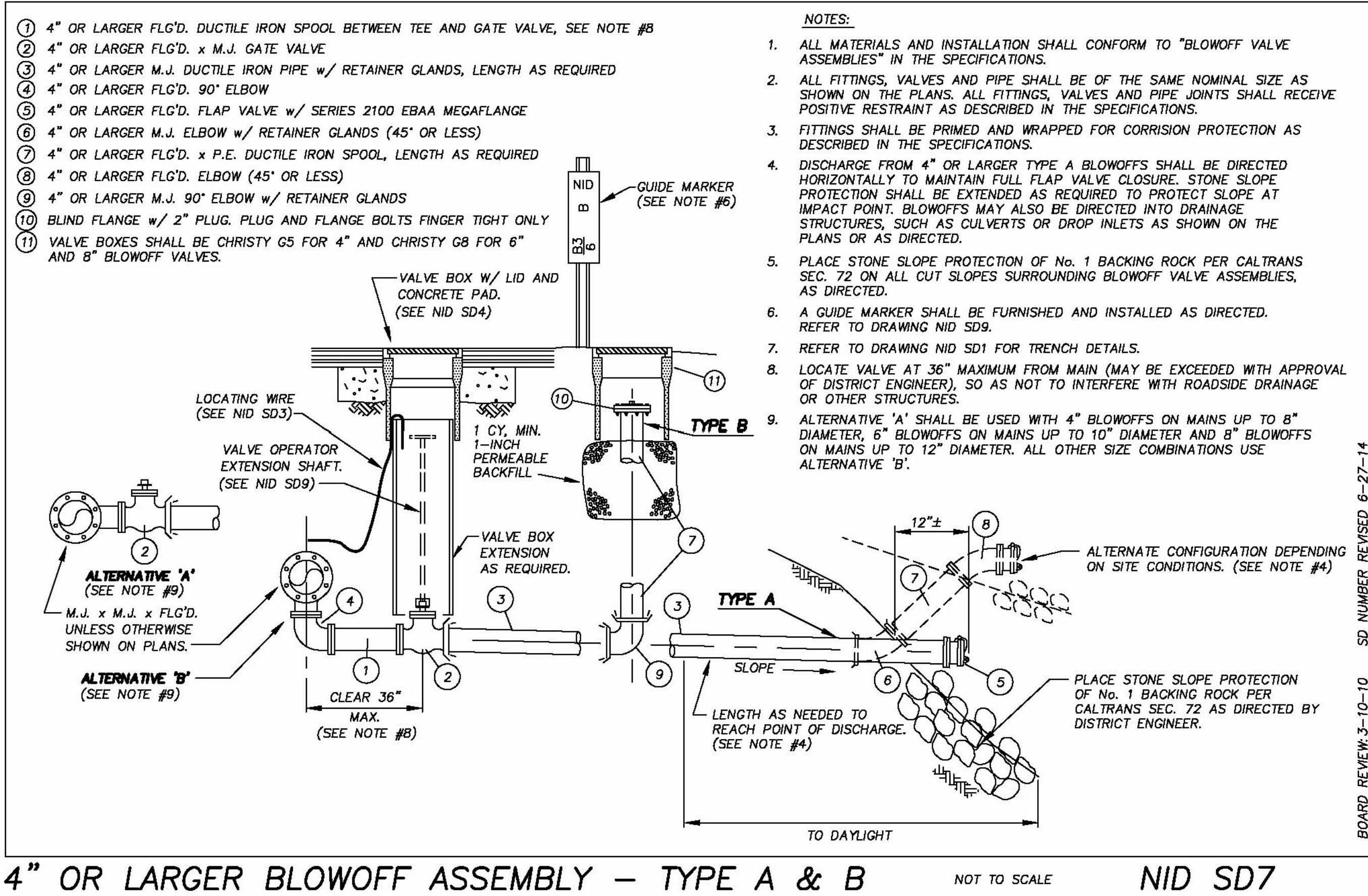
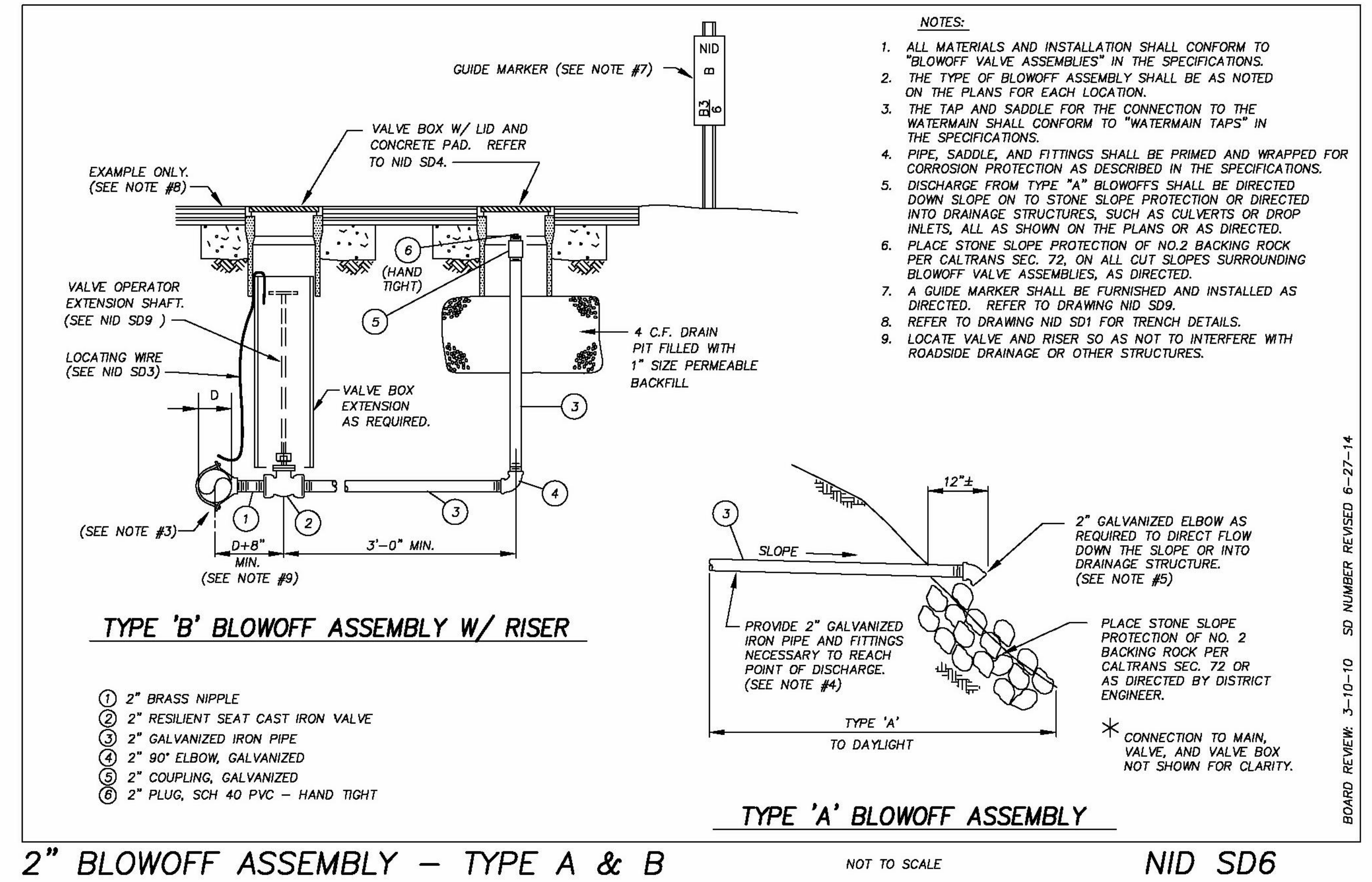
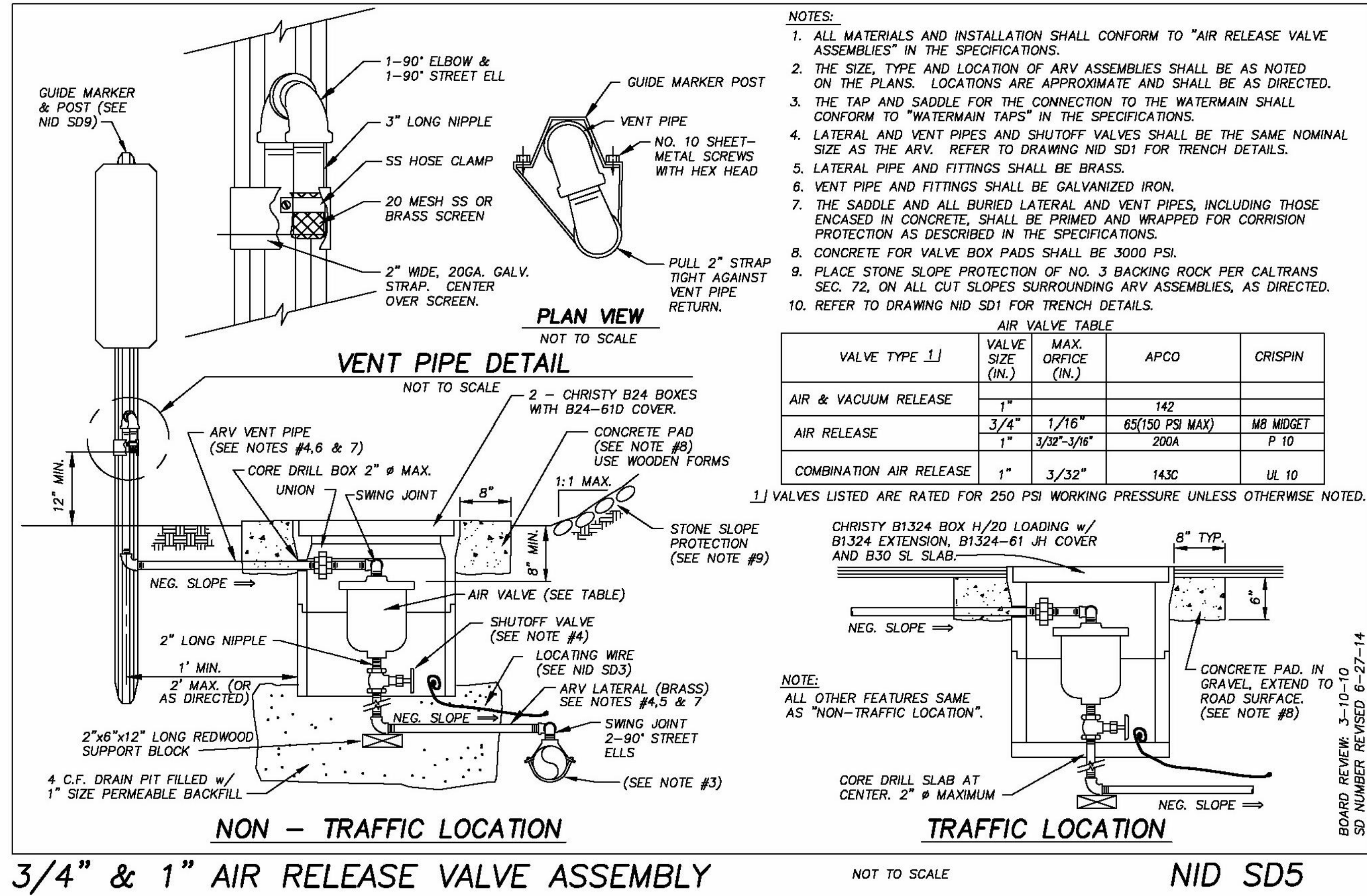
NID SD4

- NOTES:
1. ALL MATERIALS AND INSTALLATIONS SHALL CONFORM TO "MAINLINE VALVES" IN THE SPECIFICATIONS.
 2. VALVES SHALL BE OF THE TYPE ALLOWED IN THE SPECIFICATIONS.
 3. JOINTS MAY BE FLANGED, MECHANICAL OR 'O' RING PUSH ON JOINTS EXCEPT WHERE SPECIFIC TYPES OF JOINTS ARE SHOWN ON THE PLANS OR DESIGNATED IN THE SPECIFICATIONS. ALL JOINTS SHALL BE PROTECTED FROM CORROSION AS REQUIRED IN THE SPECIFICATIONS.
 4. VALVE BODIES SHALL BE CAST IRON WITH A RATTLEPROOF CAST IRON LID MARKED "WATER". BOX EXTENSIONS SHALL BE PRECAST CONCRETE OR 8" SMOOTH WALL P.V.C. PIPE WITH MIN. SDR OF 35 AND ENDS CUT SQUARE. BOX EXTENSIONS SHALL BE CENTERED OVER THE VALVE OPERATING NUT AND CONCENTRIC WITH THE VALVE STEM.
 5. VALVE BOX PADS SHALL BE 3,000 P.S.I. CONCRETE.
 6. A VALVE OPERATOR EXTENSION SHAFT SHALL BE FURNISHED AND INSTALLED FOR ALL VALVES WITH OPERATING NUTS PLACED 36" OR MORE BELOW THE TOP OF THE VALVE BOX. REFER TO NID SD9.
 7. PLACE STONE SLOPE PROTECTION OF NO. 3 BACKING ROCK PER CALTRANS SEC. 72, ON ALL CUT SLOPES SURROUNDING VALVE ASSEMBLIES AS DIRECTED.
 8. A GUIDE MARKER SHALL BE FURNISHED AND INSTALLED AS DIRECTED. REFER TO DRAWING NID SD9.

BOARD REVIEW: 3-10-10 SD NUMBER REVISED 6-27-14

STANDARD DETAILS

DESIGNED: TIM McCALL	DATE: 3/9/94	DESIGNED: TIM McCALL	DATE: 3/9/94	JOB NO.
RECOMMENDED BY: ROBERT G. SINGLETON	DATE: 3-9-94	DRAWN: STAFF	DATE: 3-9-94	SERIAL NO.
APPROVED BY:		CHECKED:	DATE:	SHEET 5 OF 12

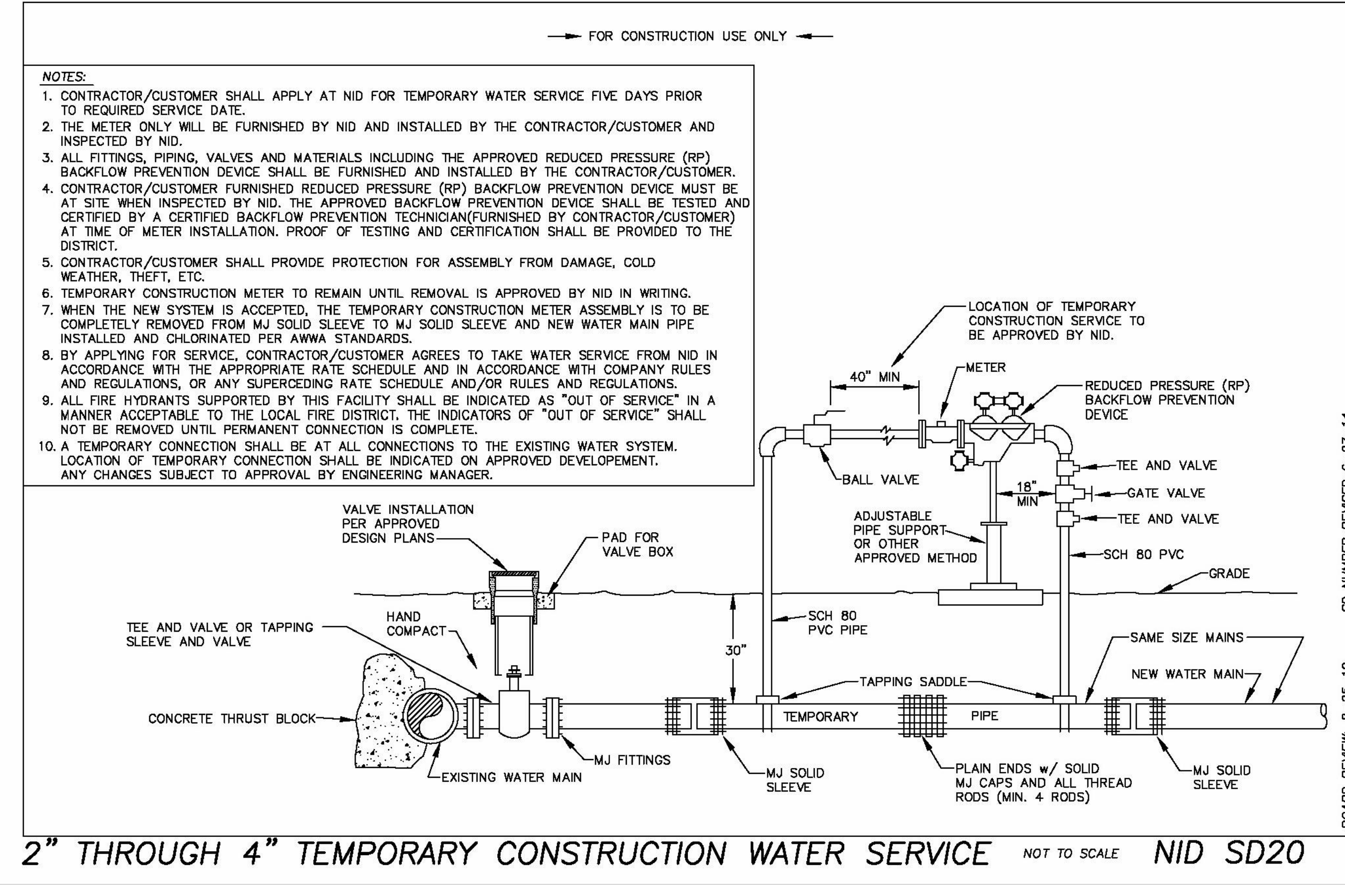
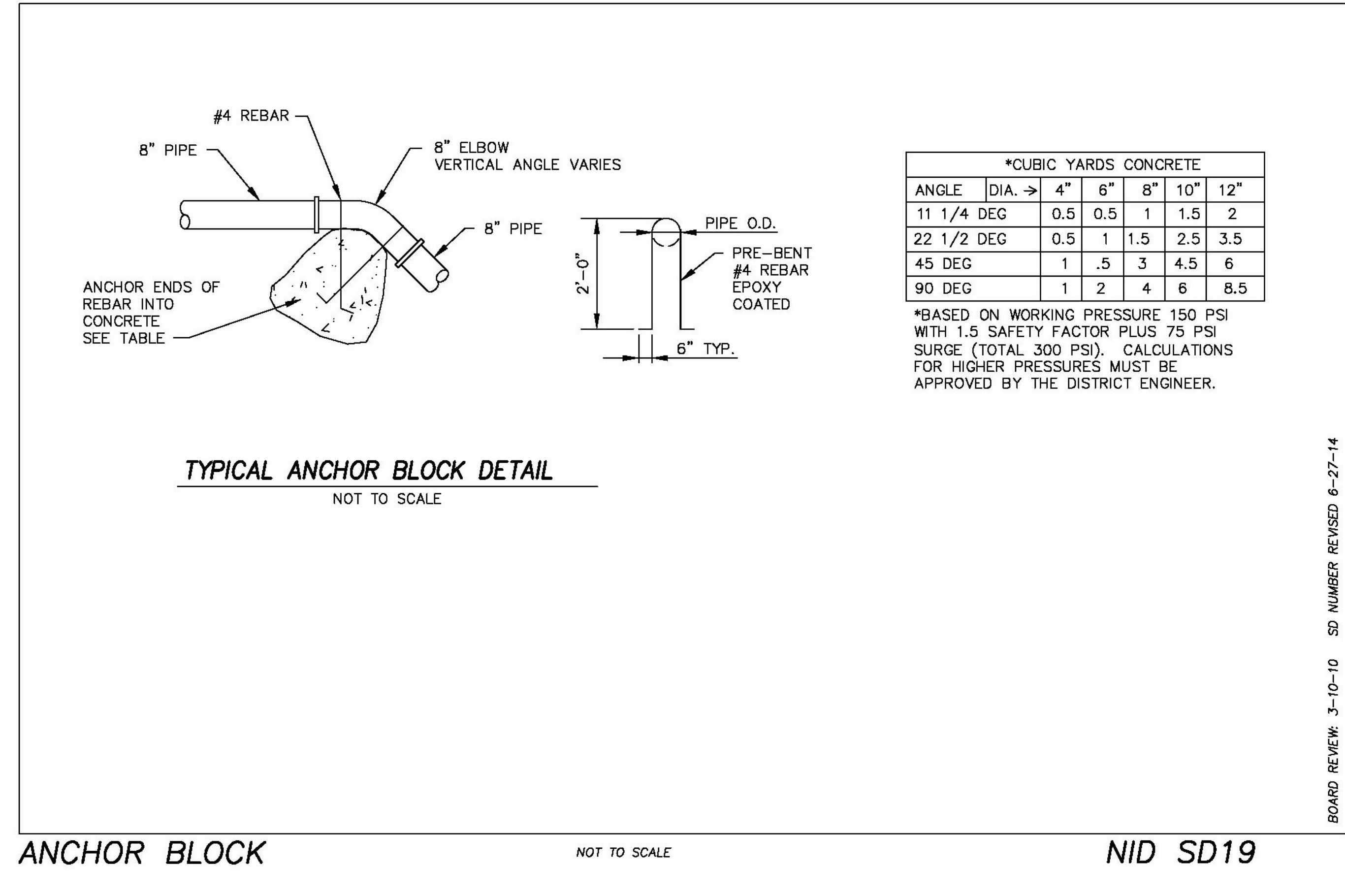
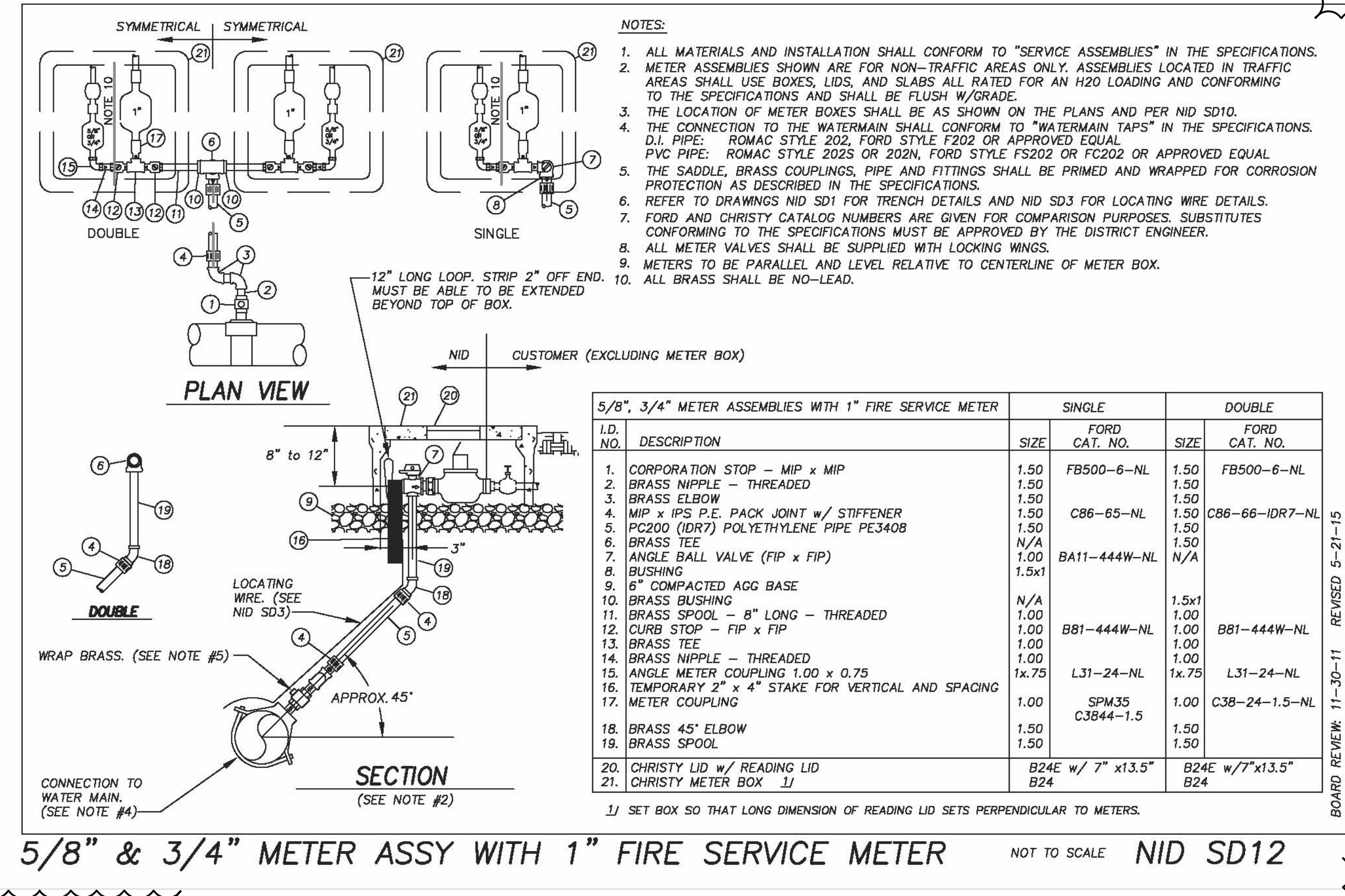
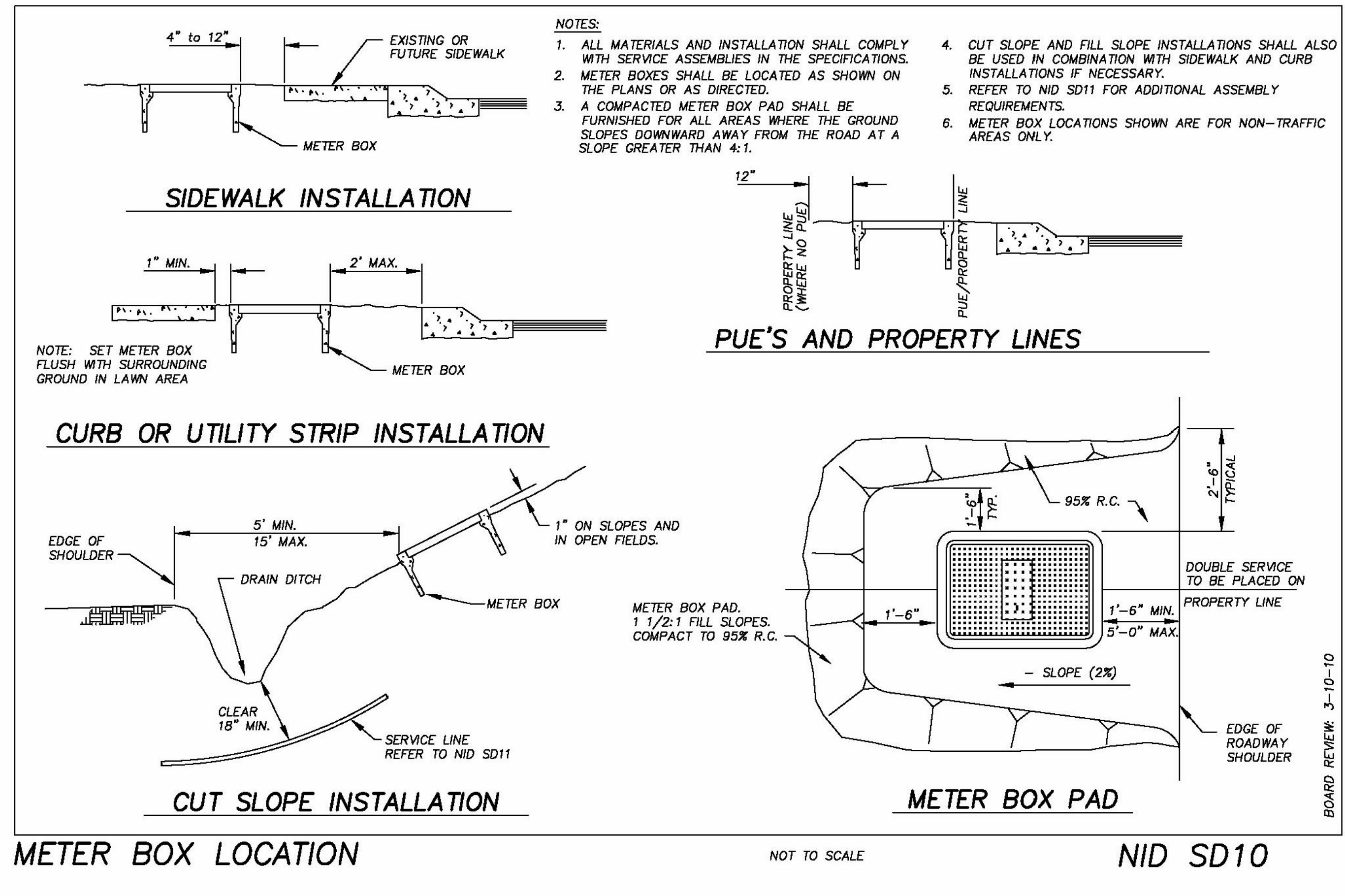


INITIALS	REVISION	DATE	REV. NO.

N.I.D. NEVADA IRRIGATION DISTRICT
NEVADA COUNTY -- PLACER COUNTY
GRASS VALLEY
CALIFORNIA

STANDARD DETAILS

DESIGNED BY:	DATE:	JOB NO.
TIM McCALL	3/9/94	
DRAWN BY:	DATE:	SERIAL NO.
STAFF	3-9-94	
CHECKED BY:	DATE:	SHEET
ROBERT G. SINGLETON	3/9/94	6 OF 12
APPROVED BY:	DATE:	SHEET



INITIALS	REVISION	DATE	REV. NO.
	2 7/15/16 Revised SD11 TO SD12	7/15/16	2
	1 1/28/15 Revised to double water & fire services	1/28/15	1

N.I.D.
NEVADA IRRIGATION DISTRICT
NEVADA COUNTY -- PLACER COUNTY
GRASS VALLEY
CALIFORNIA

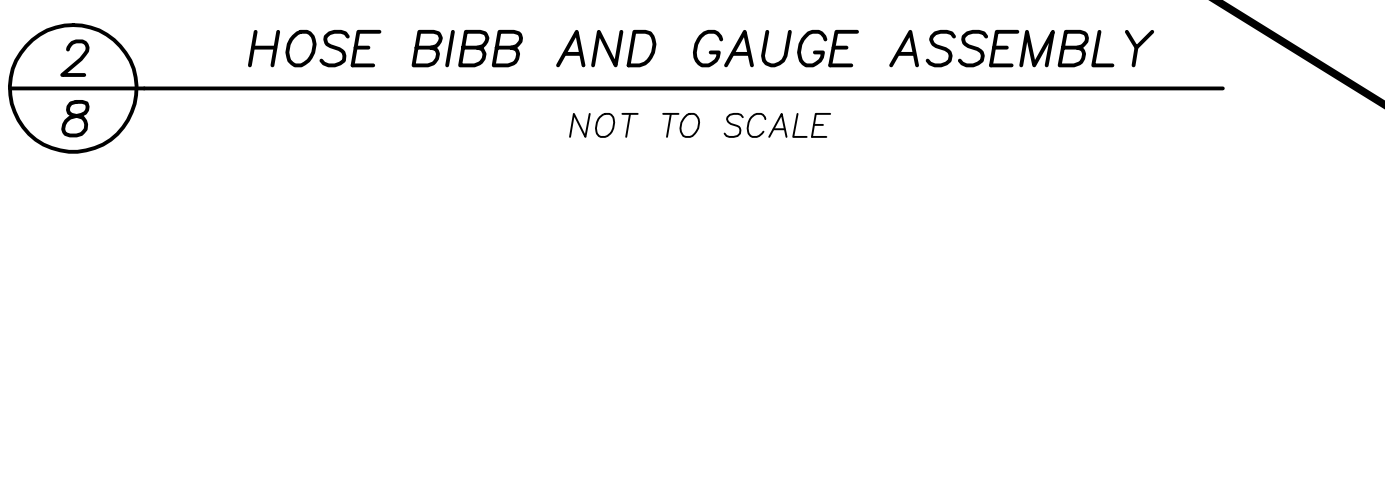
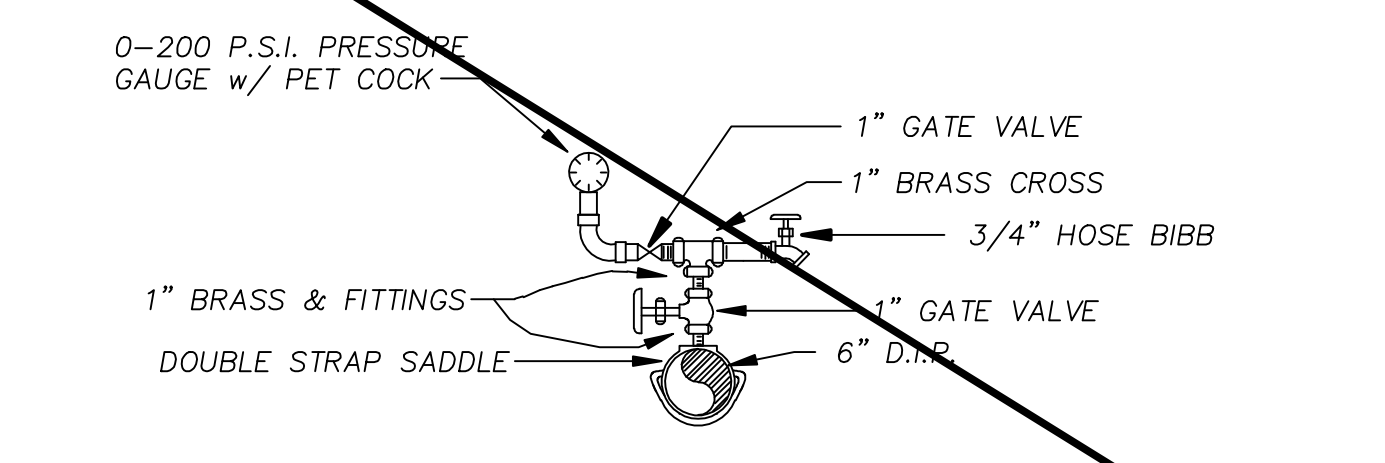
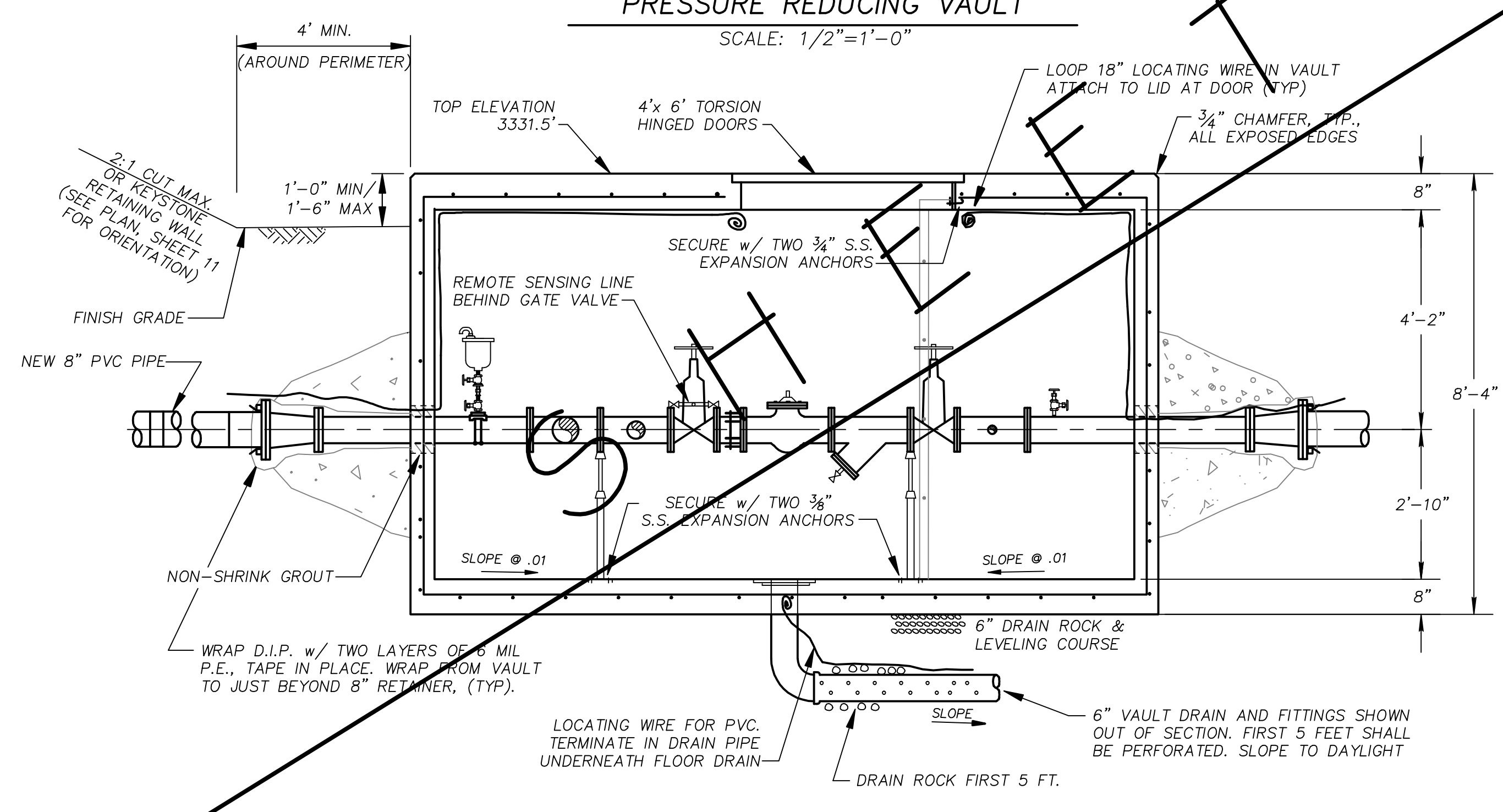
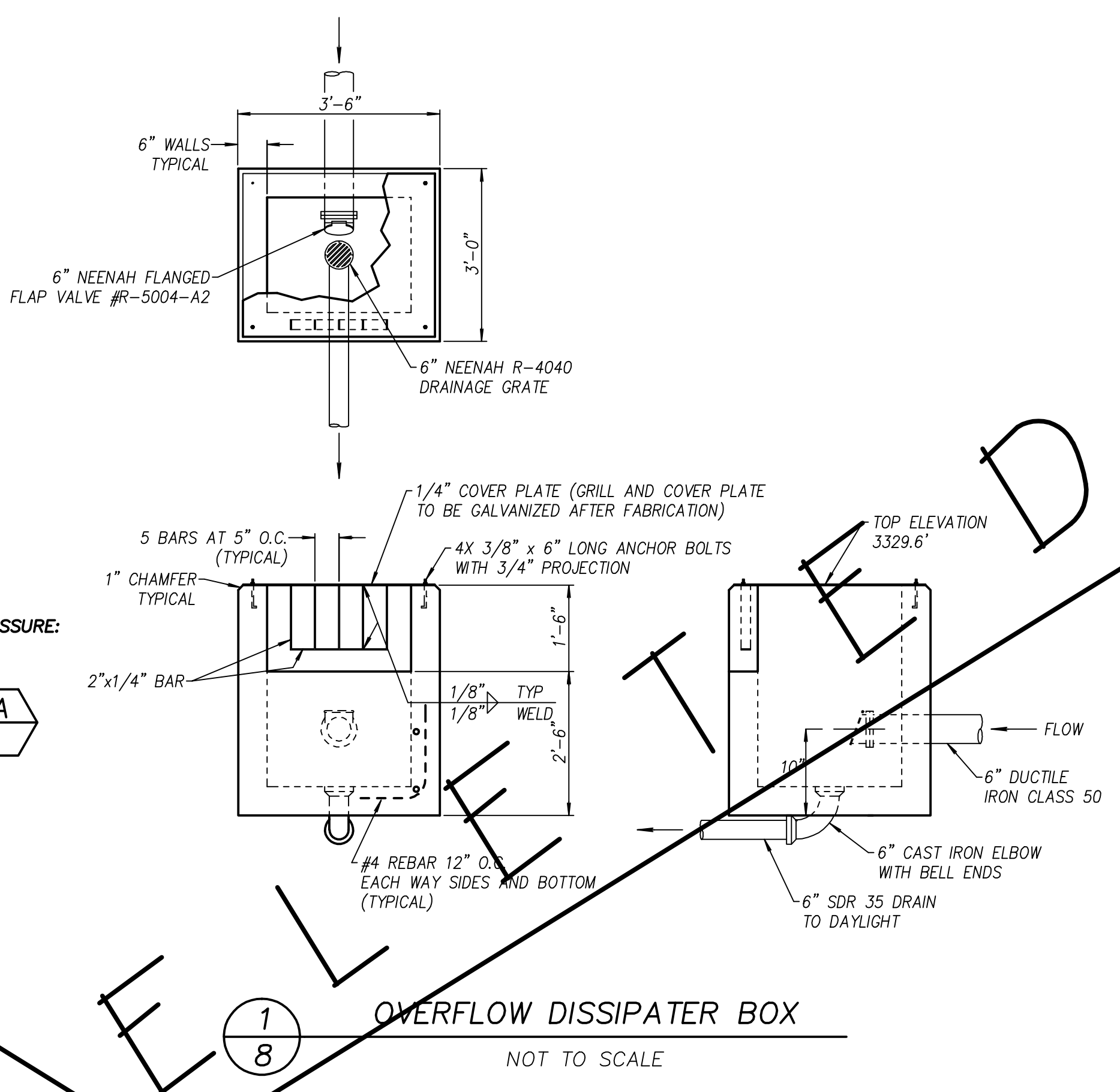
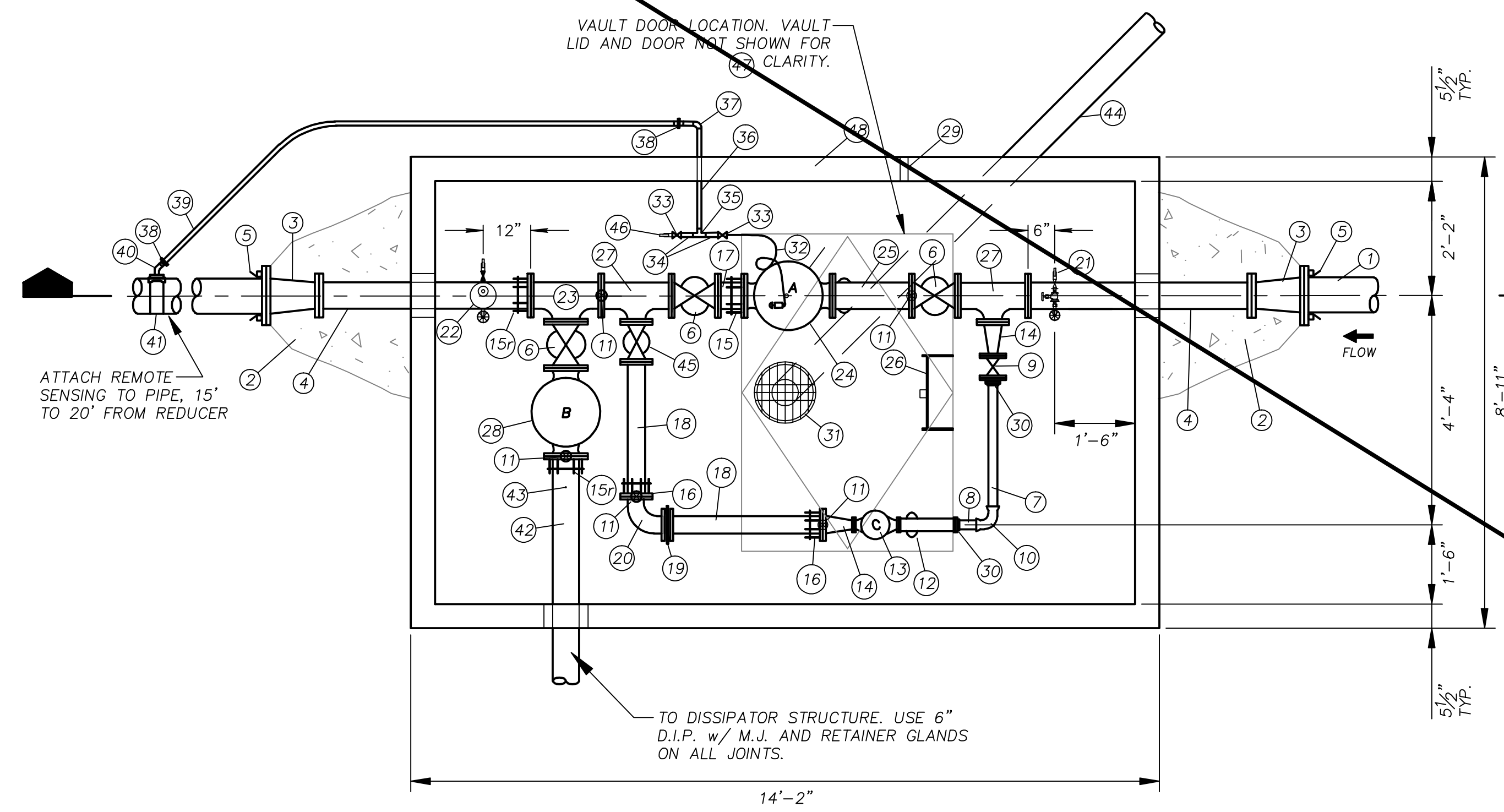
STANDARD DETAILS

DESIGNED:	DATE:	JOB NO.
TIM McCALL	3/9/94	
RECOMMENDED BY:	DATE:	SERIAL NO.
ROBERT G. SINGLETON	3/9/94	
APPROVED BY:	DATE:	SHEET
		7 OF 12

HQL = 3327.1

PRESSURE SETTINGS	
VALVE	PRESSURE
A	40
B	50
C	45

VAULT SCHEDULE OF FITTINGS		
NO.	QTY.	DESCRIPTION
1	--	8" C900 CL200 PVC WATERMAIN - LENGTH AS REQ'D
2	2	THRUST BLOCKS, LEAN CONCRETE (THREE SACKS/CU. YD.)
3	2	8" x 6" FLG X MJ REDUCERS
4	2	6" FLG'D SPOOL, LENGTH AS REQUIRED
5	2	MJ JOINT RESTRAINT (DUCTILE IRON PIPE ONLY)
6	3	6" FLG'D RESILIENT SEAT GATE VALVE w/ HAND WHEEL
7	1	2" BRASS NIPPLE, LENGTH AS REQUIRED
8	1	2" BRASS NIPPLE, 3" LONG
9	1	2" FLG'D RESILIENT SEAT GATE VALVE
10	1	2" - 90° BRASS ELBOW, THREADED
11	5	FLOOR STAND, 3 SIZED FOR 6" PIPE, 2 SIZED FOR 4" PIPE
12	1	2" FLG'D WYE STRAINER w/ BOLT ON CAP & 3/4" FULL PORT BALL VALVE BLOWOFF
13	1	2" CLA-VAL PRESSURE REDUCING VALVE (90-01 YBCSKC w/ X101, FLG'D #150 GLOBE)
14	2	4" x 2" FLG'D REDUCER
15	1	6" FLG'D COUPLING ADAPTOR (15r = 6" FLG'D COUPLING ADAPTOR, RESTRAINED)
16	2	4" FLG'D COUPLING ADAPTOR
17	1	6" FLG'D x P.E. SPOOL, LENGTH AS REQUIRED
18	2	4" FLG'D x P.E. SPOOL, LENGTH AS REQUIRED
19	1	S.S. PADDLE ORIFICE PLATE (5 PSI PRESSURE DROP @ 175 GPM, 2" DIA. HOLE)
20	1	4" FLG'D 90° ELBOW
21	1	HOSE BIBB AND PRESSURE GAUGE ASSEMBLY (2/8)
22	1	AIR RELEASE, HOSE BIBB AND PRESSURE GAUGE ASSEMBLY (3/8)
23	1	6" FLG'D TEE
24	1	6" CLA-VAL PRESSURE REDUCING VALVE (90-04 YBCSKC w/ X101, FLG'D #150 GLOBE)
25	1	6" FLG'D WYE STRAINER w/ BOLT ON CAP & 2" FULL PORT BALL VALVE BLOWOFF
26	1	SAFETY LADDER w/ A BILCO "LADDER UP" w/ KNURLED RUNGS
27	2	6" x 6" x 4" FLG'D TEE
28	1	6" CLA-VAL PRESSURE RELIEF VALVE (50-01 BKC w/ X101, FLG'D 150 GLOBE)
29	1	VAULT DOOR DRAIN (SEE BILCO SPECIFICATION SHEET)
30	2	2" COMPANION FLANGE
31	1	6" FLOOR DRAIN w/ 1/4" GRATE
32	1	3/8" COPPER TUBING
33	2	1" BRASS GATE VALVE
34	2	1" BRASS NIPPLE, 2" LONG
35	1	1" BRASS TEE
36	1	1" BRASS NIPPLE, LENGTH AS REQUIRED
37	1	1" BRASS 90° ELBOW
38	2	1" M.I.P. x 1" I.P.S. P.E. PACK JOINT w/ STIFFENER - USE SERVICE ASSEMBLY SPECIFICATIONS
39	1	1" POLYETHYLENE I.P.S. PIPE AND LOCATING WIRE, LENGTH AS REQUIRED. USE SERVICE ASSEMBLY SPECIFICATIONS
40	1	1" BRASS 45° STREET ELBOW
41	1	8" SADDLE w/ 1" TAP - USE SERVICE ASSEMBLY SPECIFICATIONS SET 15' TO 20' FROM REDUCER
42	1	6" FLG'D x P.E. DUCTILE IRON PIPE, LENGTH AS REQUIRED
43	1	1/4" HOLE DRILLED IN BOTTOM OF 6" DUCTILE IRON PIPE
44	1	6" VAULT DRAIN AND FITTINGS TO DAYLIGHT (DO NOT CONNECT TO DISSIPATOR)
45	1	4" FLG'D GATE VALVE
46	1	HOSE BIBB
47	1	4'-0" x 6'-0" DOUBLE LEAF ALUMINUM VAULT DOOR (BILCO MODEL JD-3AL-PARKWAY LOADING)
48	1	14'-2" x 8'-11" x 8'-4" PRECAST VAULT (AASHTO LOADING)



A SECTION
SCALE: 1/2" = 1'-0"

2
8 HOSE BIBB AND GAUGE ASSEMBLY
NOT TO SCALE

3
8 AIR RELEASE, HOSE BIBB AND GAUGE ASSEMBLY
NOT TO SCALE

INITIALS	REVISION	DATE	REV. NO.

N.I.D. NEVADA IRRIGATION DISTRICT
NEVADA COUNTY -- PLACER COUNTY
GRASS VALLEY CALIFORNIA

6" x 2" PRESSURE REDUCING STATION
PLAN VIEW, SECTION & DETAILS

DESIGNED BY:	DATE:	JOB NO.
TIM McCALL	3/9/94	TIM McCALL
RECOMMENDED BY:	DATE:	SERIAL NO.
ROBERT G. SINGLETON	3/9/94	STAFF
APPROVED BY:	DATE:	SHEET OF
		8 OF 12

CENTERLINE COURSE LEGEND

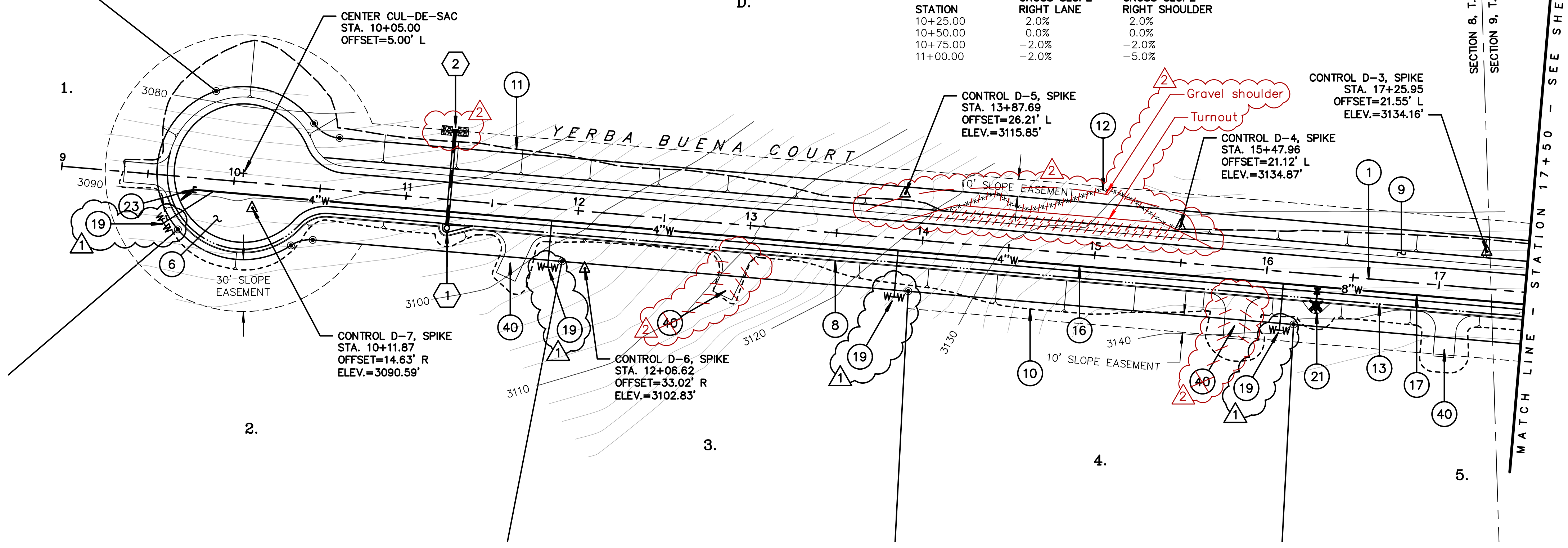
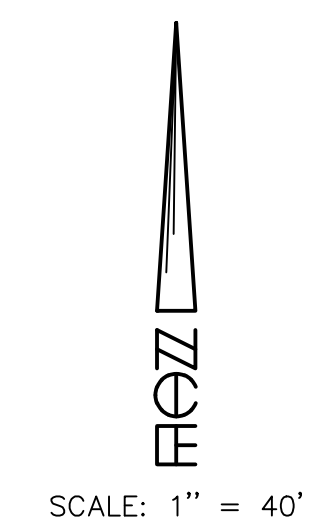
9+65.31 BEGIN (EP) to 20+41.13 BC S85°04'42"E 1075.82'
 20+41.13 BC to 22+15.66 EC R=200' L=174.53'
 22+15.66 EC to 22+64.69 END (EX. EP) N44°55'18"E 49.03'

SUPERELEVATION LEGEND

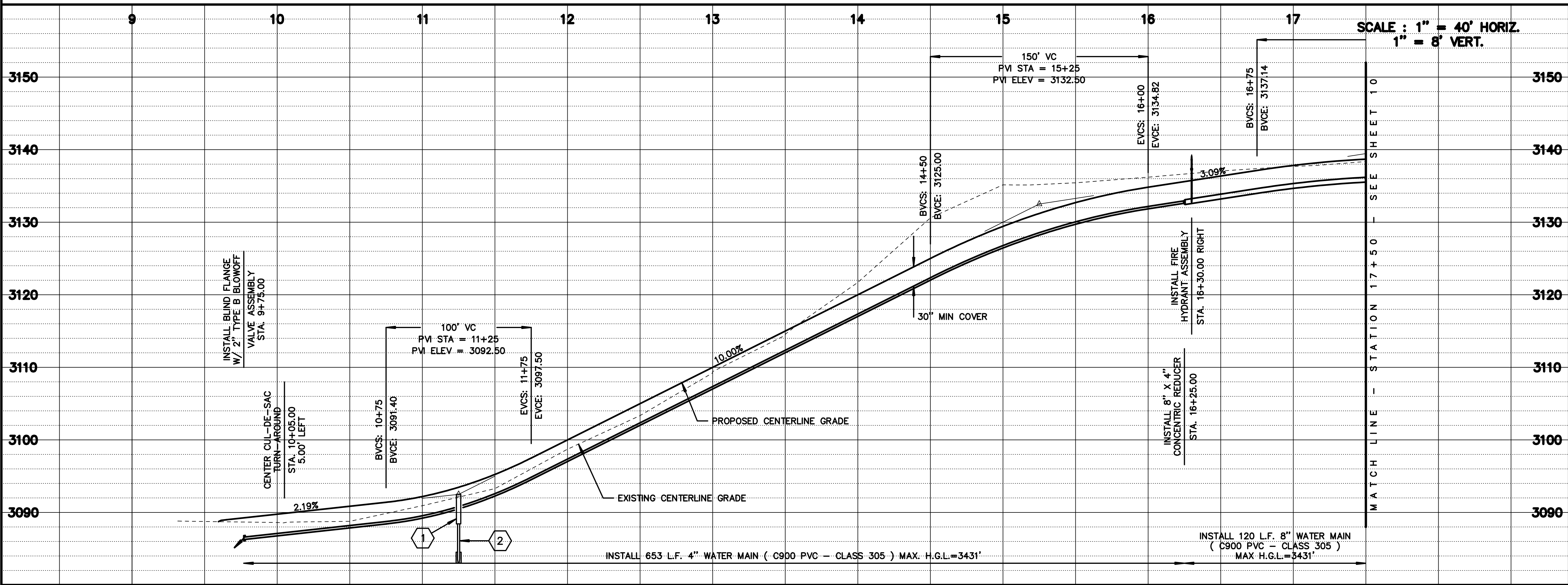
STATION	CROSS SLOPE RIGHT LANE	CROSS SLOPE RIGHT SHOULDER
10+25.00	2.0%	2.0%
10+50.00	0.0%	0.0%
10+75.00	-2.0%	-2.0%
11+00.00	-2.0%	-5.0%

SHEET NOTE LEGEND

- 1 Construct new roadway alignment as shown.
- 6 Construct cul-de-sac turn-around as shown.
- 8 Install type "D" A.C. dike (typical).
- 9 Construct 4" thick gravel walkway (typical).
- 10 Top of 2:1 (unless otherwise specified) cut slope (typical).
- 11 Toe of 2:1 (unless otherwise specified) fill slope (typical).
- 12 2% daylight cut (typical).
- 13 Gutter flowline (typical).
- 16 Install 4" water main (PVC-C900 typical).
- 17 Install 8" water main (PVC-C900 typical).
- 19 Install 3/4" double water meter assembly with 1" fire service per NID standard detail SD12 for each new lot as shown.
- 21 Install fire hydrant assembly (typical).
- 23 Install blind flange w/ 2" type "B" blowoff assembly (typical).
- 40 Construct driveway approach per county standard detail BB. (drive slope = 10% typical)



YERBA BUENA COURT



STORM DRAIN LEGEND

- 1 Install drop inlet Sta 11+25.00 16.5' Right Rim : 92.50 Inv : 89.5 D = 3.0'
- 2 Install 54 LF 18" storm drain conduit w/ tee outlet Inv In : 89.5 Inv Out : 84.0 S = 0.1019 Install 5' wide by 6' long rock inlet/outlet protection on each side of the tee outlet.

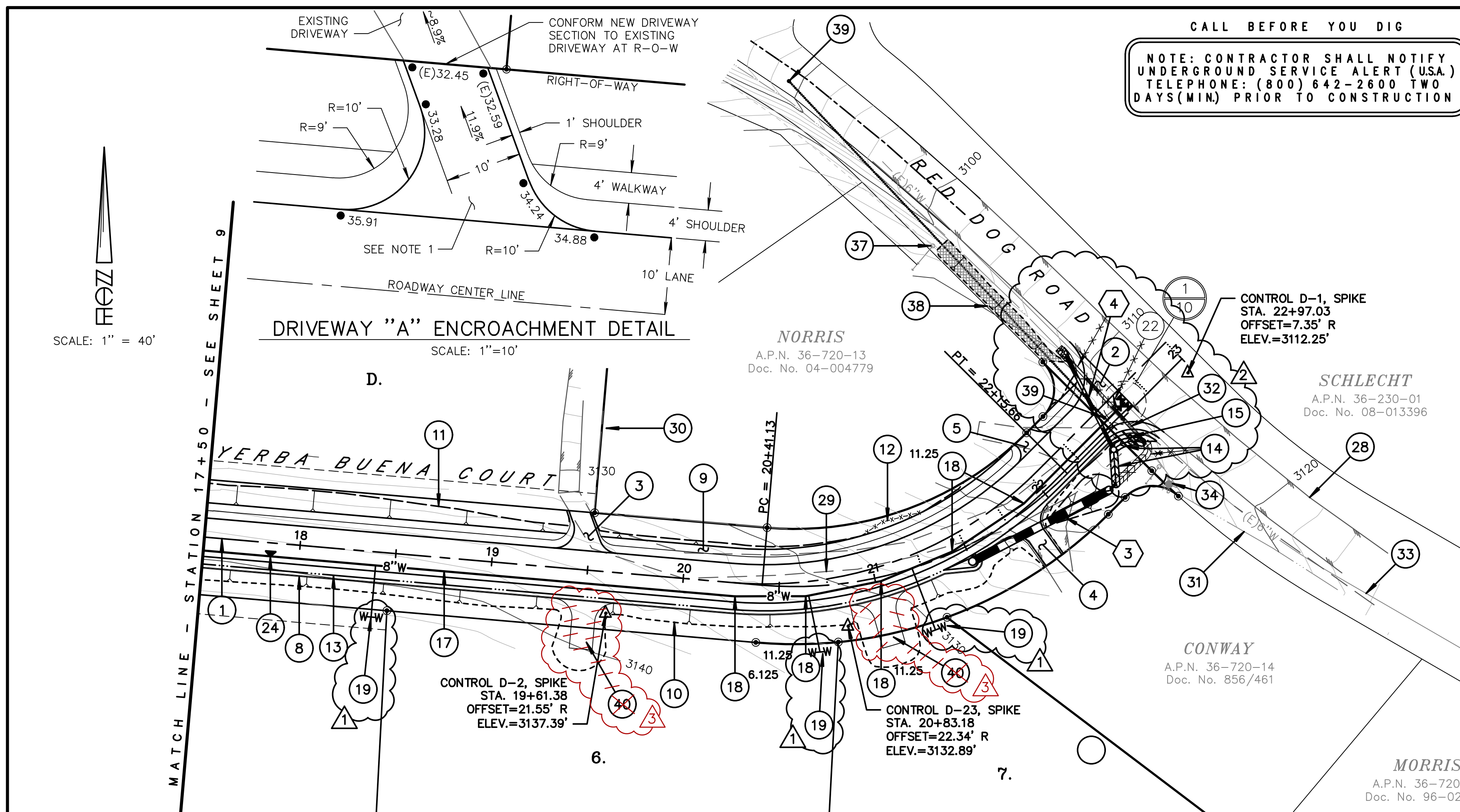
RECORD DRAWING

CALL BEFORE YOU DIG
 NOTE: CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT (USA) TELEPHONE: (800) 642-2600 TWO DAYS(MIN) PRIOR TO CONSTRUCTION

IMPROVEMENT PLANS FOR
Deer Creek Park Iia
 NEVADA COUNTY BEGIN TO STA. 17+50.00 CALIFORNIA

PREPARED BY
NEVADA CITY ENGINEERING, INC.
 505 COYOTE STREET - P.O. BOX 1437 - NEVADA CITY - CALIFORNIA

DESIGNED	NCL	DATE	04/19/10	JOB NO.	98-061
DRAWN	NCE	DATE	1/28/15	SHEET	9 OF 12



CENTERLINE COURSE LEGEND

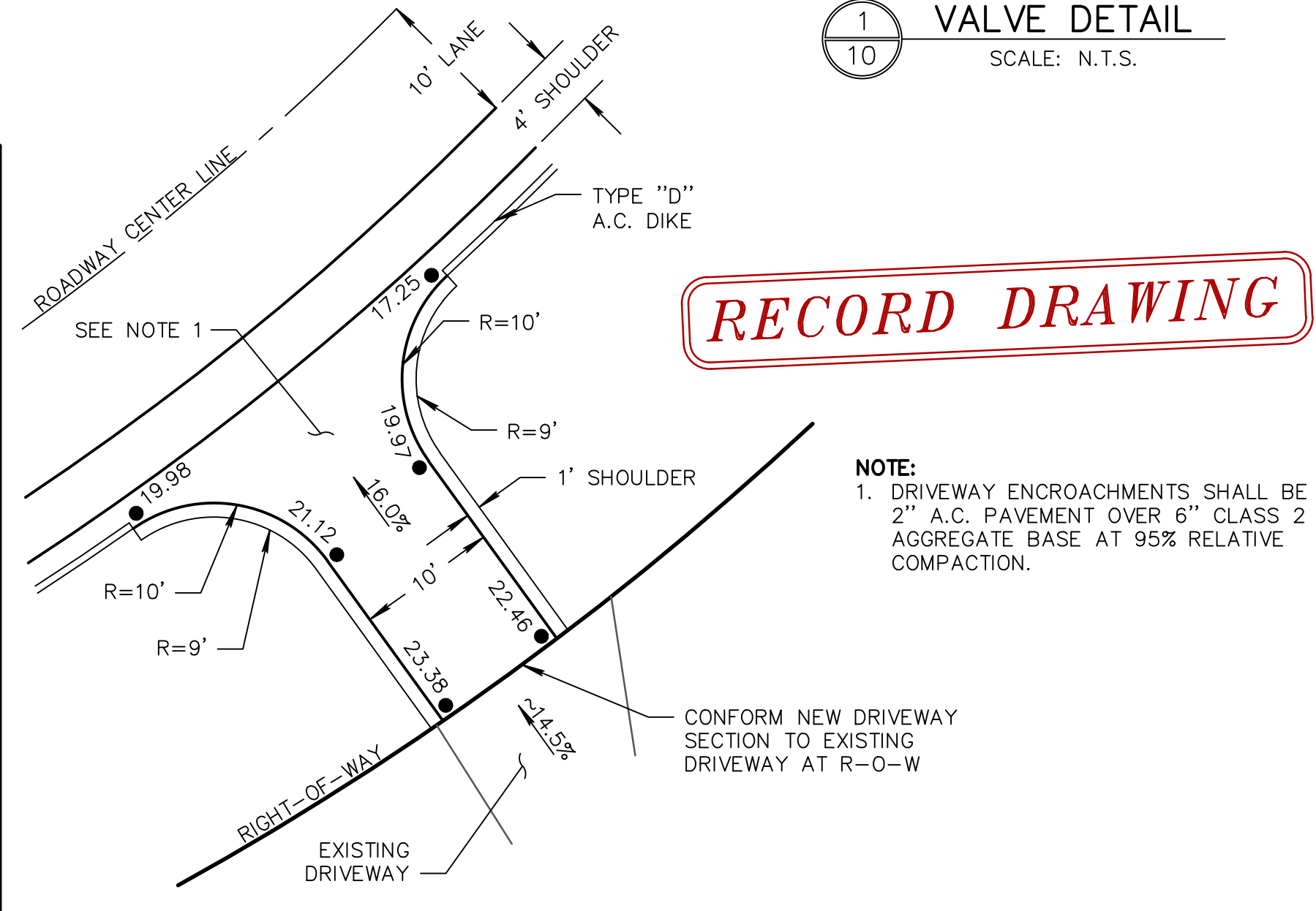
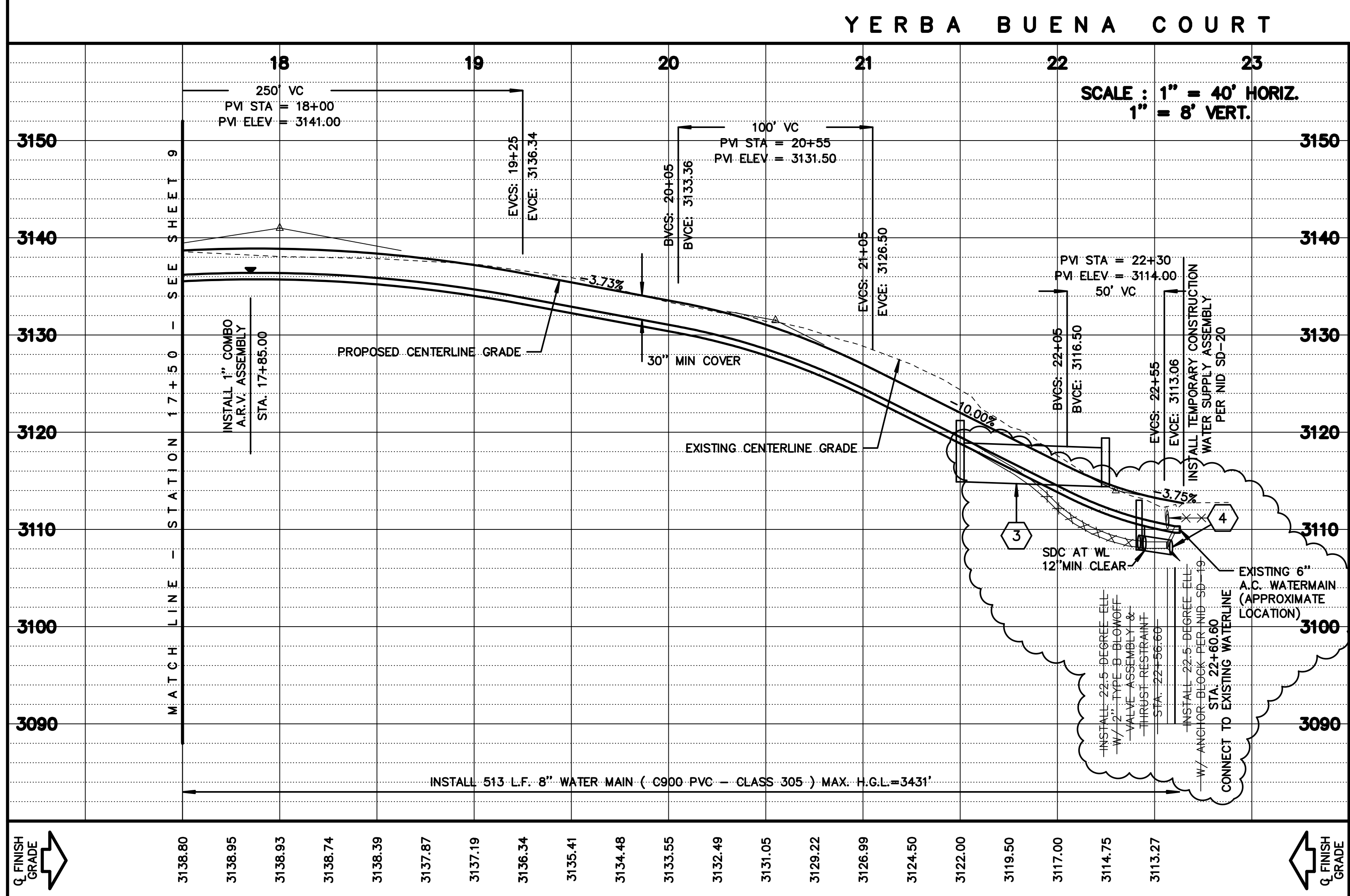
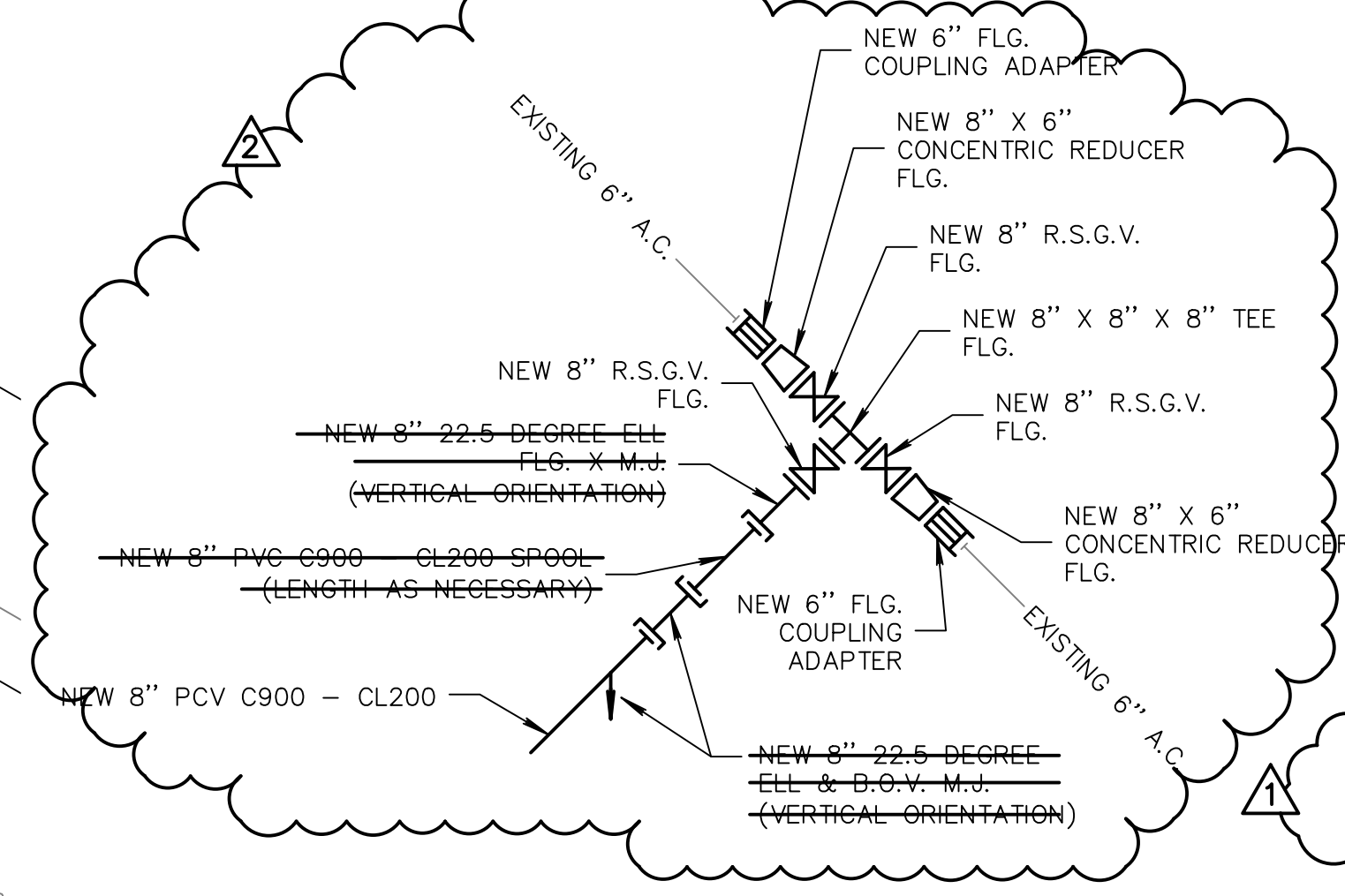
9+65.31 BEGIN (EP) to 20+41.13 BC S85°04'42"E 1075.82'
 20+41.13 BC to 22+15.66 EC R=200' L=174.53'
 22+15.66 EC to 22+64.69 END (EX. EP) N44°55'18"E Δ=50°00'00" L=174.53'
 49.03'

CONSTRUCTION CENTERLINE & SUPERELEVATION LEGEND

STATION	CENTERLINE OFFSET	CROSS SLOPE RIGHT LANE	CROSS SLOPE RIGHT SHOULDER
20+25.00	0.00'	-2.0%	-5.0%
20+50.00	1.31' LEFT	-2.0%	-5.0%
20+75.00	3.24' LEFT	-2.0%	-5.0%
21+00.00	5.11' LEFT	-2.0%	-5.0%
21+25.00	6.89' LEFT	-2.0%	-5.0%
21+50.00	8.56' LEFT	-2.0%	-2.0%
21+75.00	10.10' LEFT	0.0%	0.0%
22+00.00	11.48' LEFT	2.0%	2.0%
22+25.00	12.00' LEFT	4.0%	4.0%
22+50.00	12.00' LEFT	6.0%	6.0%

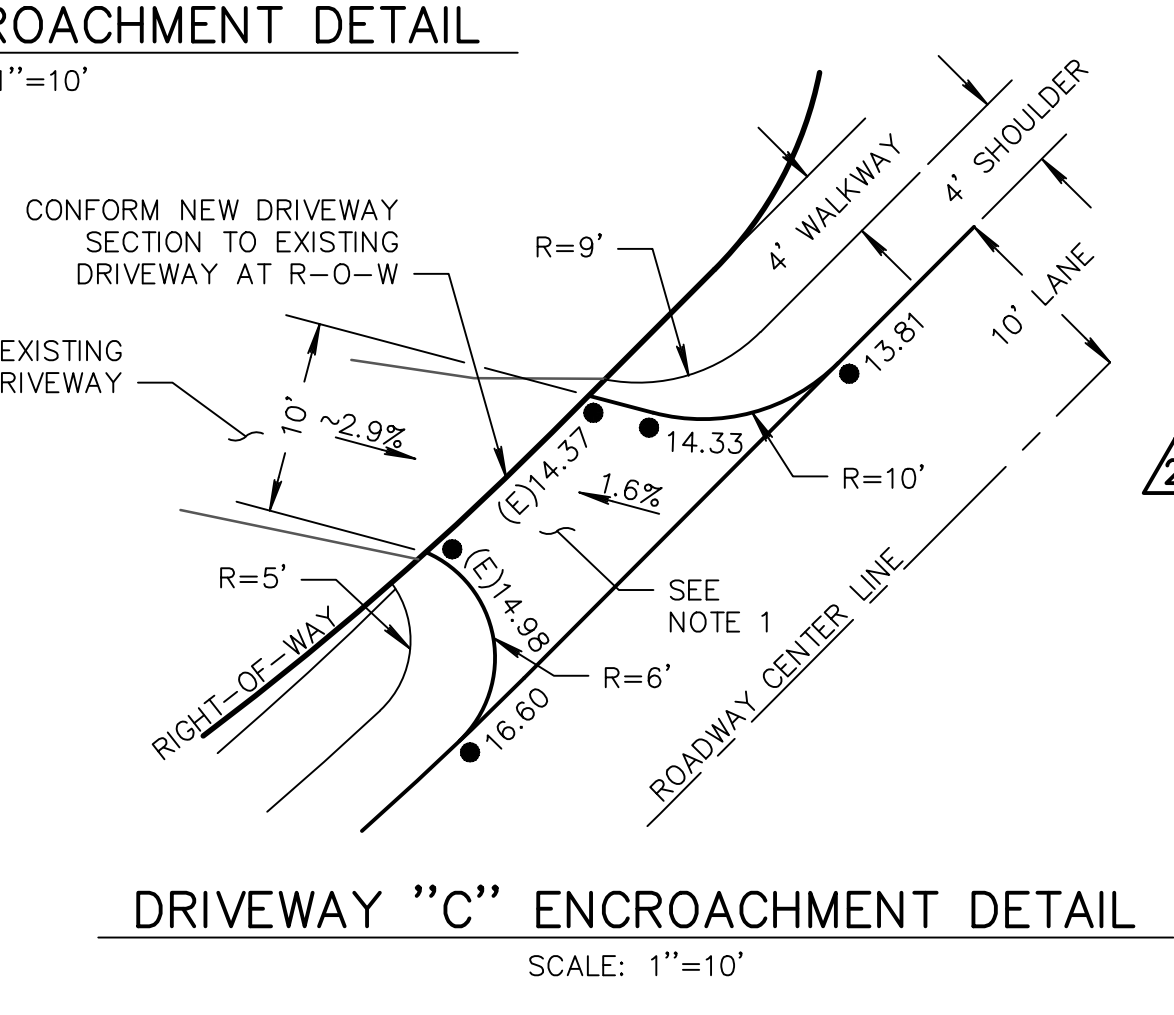
SHEET NOTE LEGEND

- 1 Construct new roadway alignment as shown.
- 2 Construct roadway encroachment per county standard detail B-1 and as shown hereon.
- 3 Construct driveway "A" encroachment as shown on detail hereon.
- 4 Construct driveway "B" encroachment as shown on detail hereon.
- 5 Construct driveway "C" encroachment as shown on detail hereon.
- 8 Install type "D" A.C. dike (typical).
- 9 Construct 4" thick gravel walkway (typical).
- 10 Top of 2:1 (unless otherwise specified) cut slope (typical).
- 11 Toe of 2:1 (unless otherwise specified) fill slope (typical).
- 12 2% daylight cut (typical).
- 13 Gutter flowline (typical).
- 14 Construct 1' deep rocked lined ditch with 2:1 side slopes when gradient is greater than 5%.
- 15 Install street/stop sign.
- 17 Install 8" water main (PVC-C900 typical).
- 18 Install XX degree water main elbow with thrust block.
- 19 Install 3/4" double water meter assembly with 1" fire service per NID standard detail SD12 for each new lot as shown.
- 22 Install 2" type "B" blowoff valve assembly (typical).
- 24 Install 1" combination air release valve assembly (typ.).
- 28 Existing asphalt roadway/driveway (typical).
- 29 Existing gravel driveway (typical).
- 30 Existing fence (typical).
- 31 Existing flowline (typical).
- 32 Existing 18" C.M.P. culvert (to be removed).
- 33 Existing 6" A.C. watermain (approximate location).
- 34 Existing fire hydrant.
- 37 Existing utility pole (typical).
- 38 Regrade existing cut bank in hatched area to provide maximum sight distance available within existing R/W. (new top of cut 12" from r/w, 2:1 cut slope)
- 39 Provide 385' unobstructed sight line between a point 3.5 ft high, 15' back from the ETW of Red Dog Rd in the center of the east bound lane Yerba Buena Ct. a point 4.5 ft high in the center of the east bound lane Red Dog Road as shown. (385' desired, Min.=250')
- 40 Construct driveway approach per county standard detail BB. (drive slope = 10% typical)



RECORD DRAWING

NOTE:
 1. DRIVEWAY ENCROACHMENTS SHALL BE 2" A.C. PAVEMENT OVER 6" CLASS 2 AGGREGATE BASE AT 95% RELATIVE COMPACTION.



STORM DRAIN LEGEND

- 3 Install Detention Facility assembly as shown. Install 48" riser inlet at Sta 21+50 - 5.5' Right. Install 48" riser with outlet control at Sta 22+25 Sta 22+25 - 21'4" Right See detail sheet 3
- 4 Install 60 x 54 LF 18" storm drain conduit -0.0093 Inv In : 44.6 07.9 Inv Out : 07.4 S = -0.0700 Install rock inlet/outlet protection per detail, and Drop Inlet (no paved apron, rim=12.9, D=5.0')

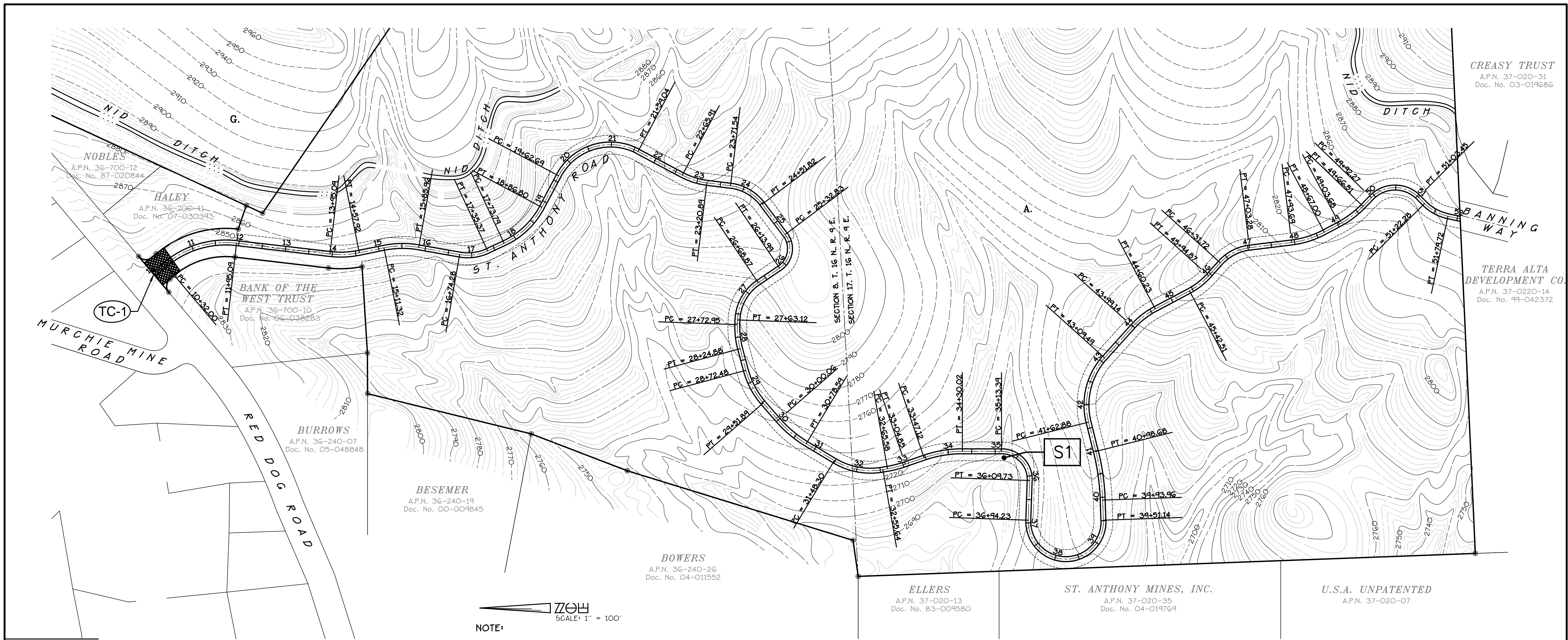
IMPROVEMENT PLANS FOR
Deer Creek Park Iia
 NEVADA COUNTY STA. 17+50.00 TO END CALIFORNIA

PREPARED BY
NEVADA CITY ENGINEERING, INC.
 505 COYOTE STREET - P.O. BOX 1437 - NEVADA CITY - CALIFORNIA

DESIGNED	NCL	DATE	04/19/10	JOB NO.	98-061
DRAWN	NCE	DATE	04/19/10	SHEET	10 OF 12

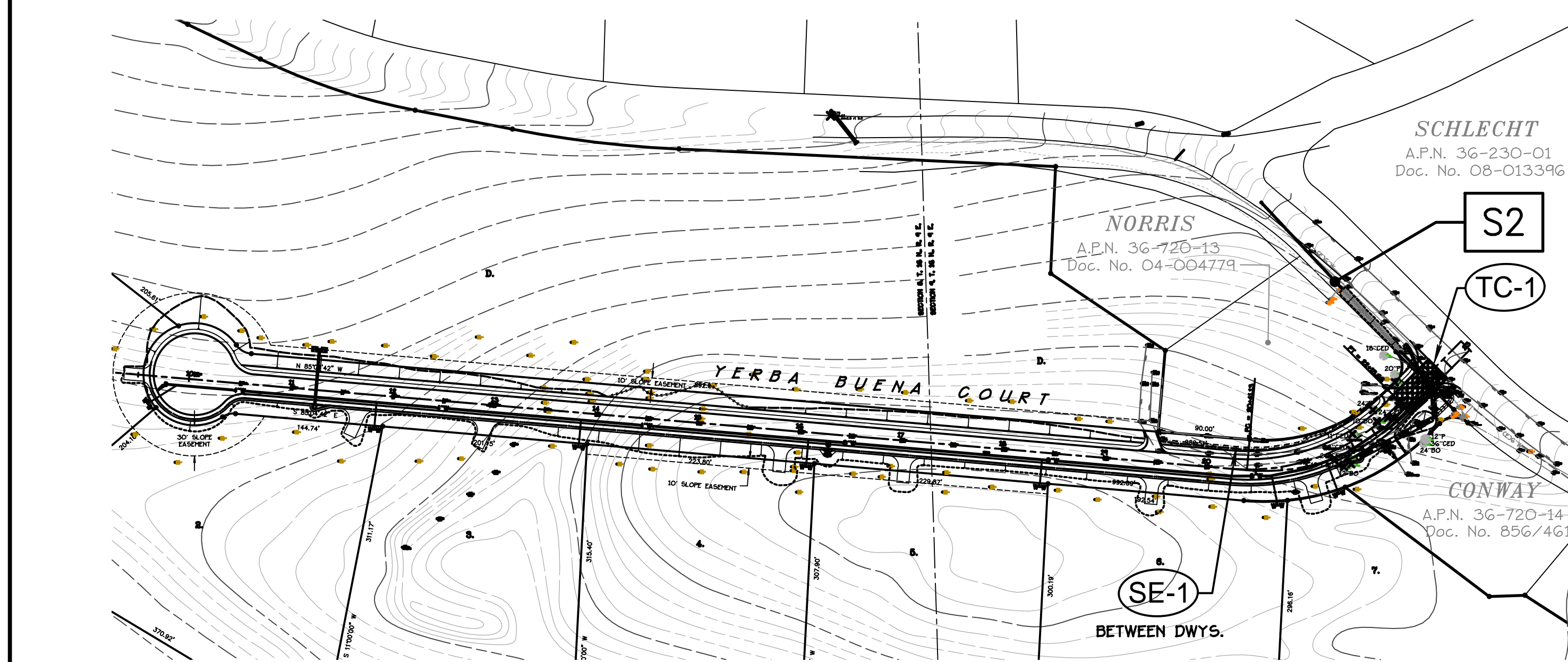
CREASY TRUST
A.P.N. 37-020-31
Doc. No. 03-019686

TERRA ALTA
DEVELOPMENT CO.
A.P.N. 37-0220-14
Doc. No. 99-042372



NOTE:
SCALE: 1" = 100'

1. THE CONTOURS SHOWN ON THIS PAGE HAVE BEEN GENERATED FROM AN AERIAL SURVEY OF THE PROJECT SITE.



STORAGE NOTE:
Waste storage / Vehicle storage / Material storage areas - to be designated by the QSP or his/her appropriately trained employee. These areas may be moved several times throughout the course of the project as most suitable to the activities that are occurring on the site at that time. All personnel must be made aware of these locations. Storage area and new monitoring locations shall be noted and/or sketched into reports.

MONITORING and/or SAMPLING LOCATIONS
S1 NORTH SIDE PROJECT DISCHARGE LOCATION
S2 SOUTH SIDE PROJECT DISCHARGE LOCATION

B.M.P. LEGEND

B.M.P. Name	Implementation Schedule	Implementation Location
XX-X	B.M.P. Name	Implementation Location
EC-1	Scheduling	Project wide
EC-2	Preservation of Existing Vegetation	Project wide
EC-4	Hydroseeding	All disturbed soils
EC-6	Straw Mulch	Bare soils as required
NS-1	Water Conservation Practices	Project wide
NS-9	Vehicle and Equipment Fueling	Project wide
NS-10	Vehicle and Equipment Maintenance	Project wide
SE-1	Silt Fence	As shown
SE-5	Fiber Rolls	at 15 ft O.C. on contour on 2:1 slopes
SE-6	Gravel Bag Berm	Alternate to SE-5
SE-9	Straw Bale Barrier	Alternate to SE-1
TC-1	Construction Entrance	Prior to the start of any other work
WE-1	Wind Erosion Control	Throughout course of construction

EROSION CONTROL NOTES:

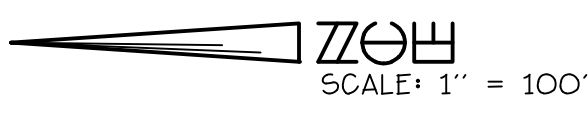
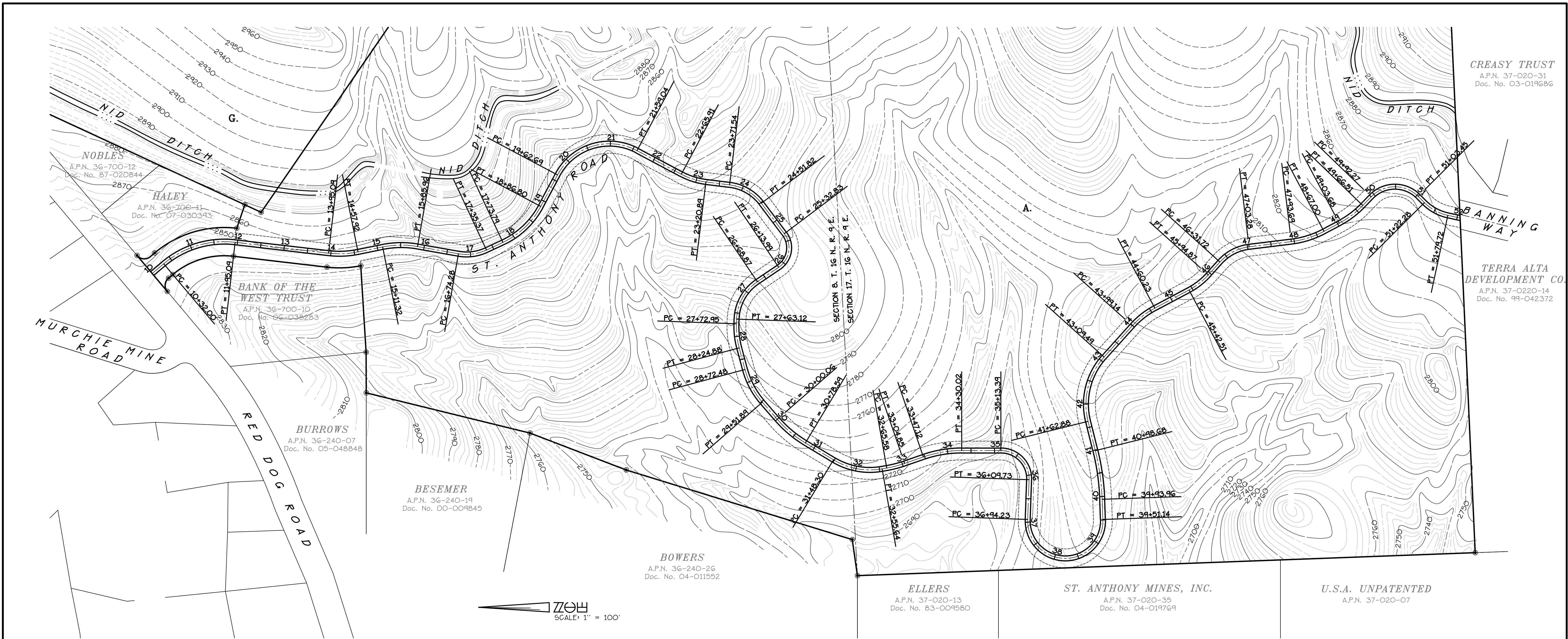
DUST AND MUD CONTROL SHALL BE PROVIDED AT ALL TIMES INCLUDING EVENINGS, WEEKENDS, AND HOLIDAYS. AT LEAST ONE MOBILE UNIT WITH A MINIMUM CAPACITY OF 1000 GALLONS SHALL BE AVAILABLE AT ALL TIMES FOR APPLYING WATER OR A PALLIATIVE ON THE AFFECTED AREAS AND ACCESS ROADS.
PRIOR TO THE START OF ANY LAND DISTURBANCE ACTIVITIES THE CONTRACTOR SHALL HAVE STOCKPILED ON-SITE ADEQUATE SUPPLIES OF STRAW, SILTATION FENCING, STAKES, AND ANY OTHER FACILITIES NECESSARY TO IMPLEMENT EMERGENCY OR TEMPORARY EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION.

RECORD DRAWING

CALL BEFORE YOU DIG
NOTE: CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT (USA) TELEPHONE: (800) 642-2600 TWO DAYS (MIN) PRIOR TO CONSTRUCTION

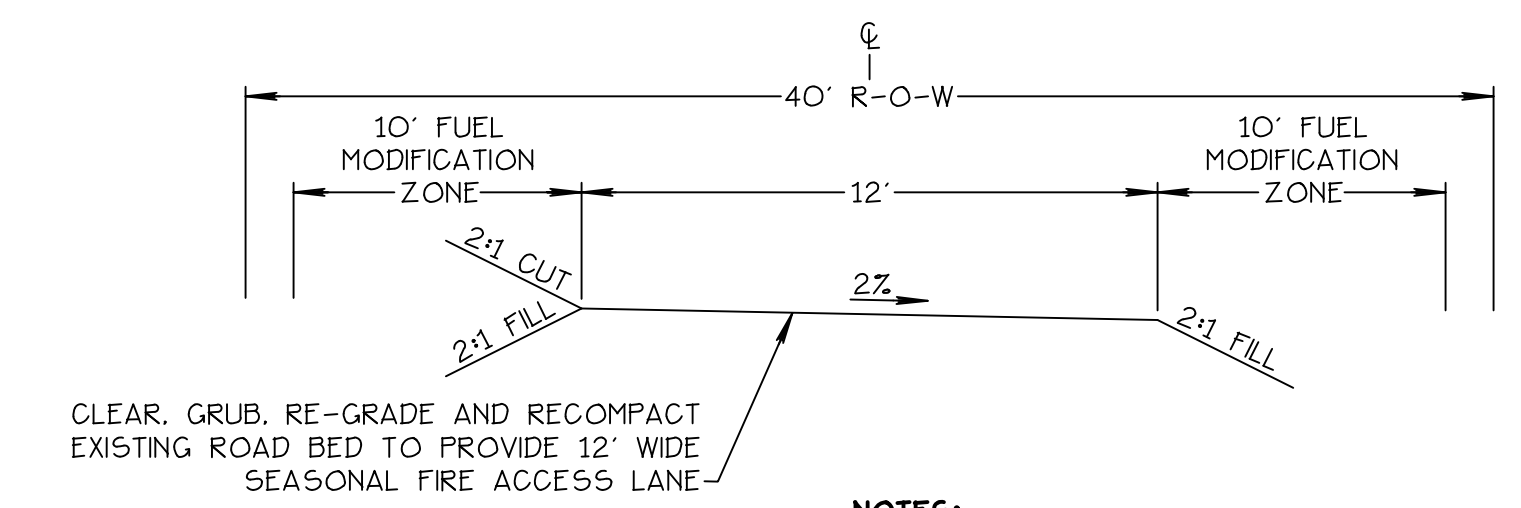
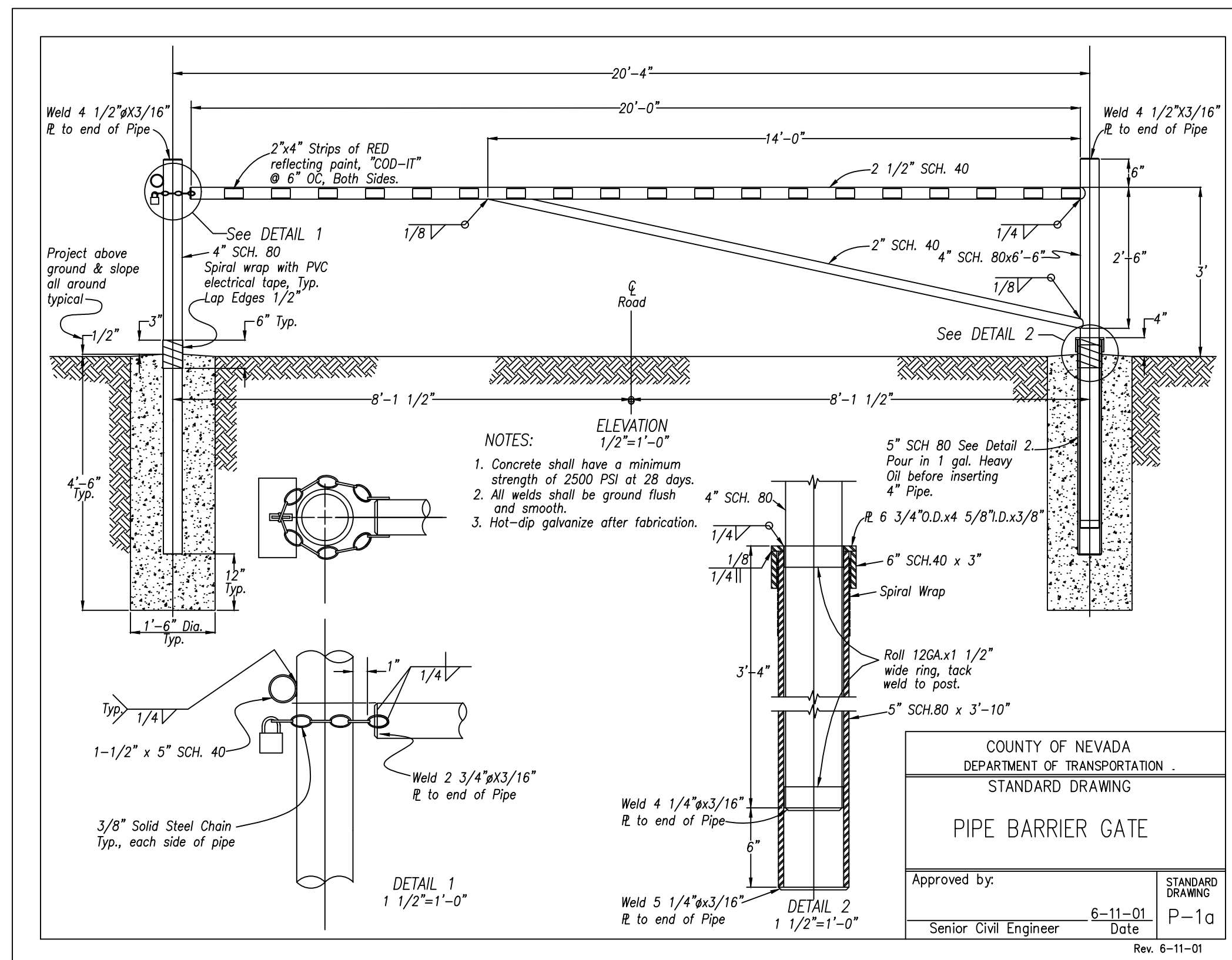
S.W.P.P.P. EXHIBIT FOR PHASE Ia
Deer Creek Park Ia
NEVADA COUNTY B.M.P. OVERVIEW CALIFORNIA
PREPARED BY
NEVADA CITY ENGINEERING, INC.
505 COYOTE STREET - P.O. BOX 1437 - NEVADA CITY - CALIFORNIA

DESIGNED	NCL	DATE	04/19/10	JOB NO.	98-061
DRAWN	NCE	SHEET	11	OF	12

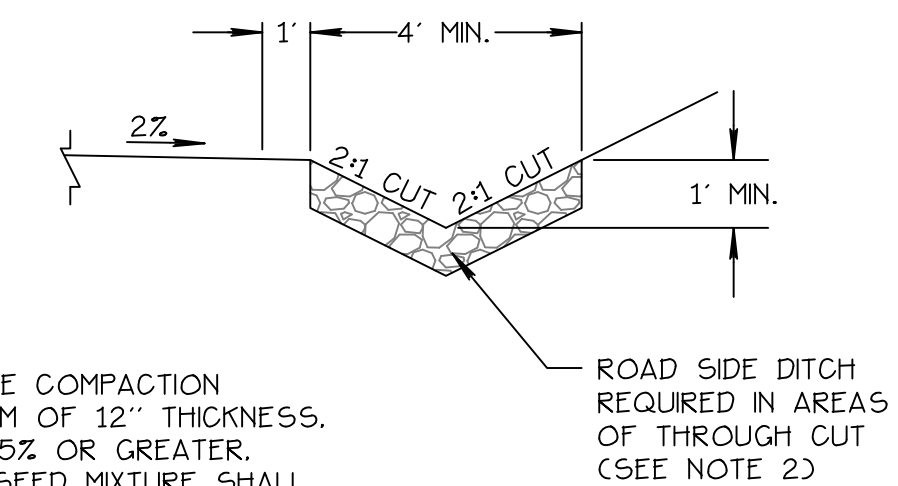


NOTES

1. THE CONTRACTOR TO CONFORM ST. ANTHONY ROAD TO THE EXISTING ROADWAYS AS APPROPRIATE.
2. THE CONTRACTOR SHALL INSTALL A PIPE BARRIER GATE AT EACH END OF ST. ANTHONY ROAD. FINAL LOCATION TO BE DETERMINED IN THE FIELD BY THE OWNER.
3. THE CONTOURS SHOWN ON THIS PAGE HAVE BEEN GENERATED FROM AN AERIAL SURVEY OF THE PROJECT SITE.



- NOTES:**
1. UPPER 6" OF SUBGRADE SHALL BE AT 95% RELATIVE COMPACTION
 2. ROCK LINING TO BE NO. 2 BACKING PLACED A MINIMUM OF 12" THICKNESS. METHOD "B" PLACEMENT WHEN FLOWLINE SLOPE IS 5% OR GREATER. OTHERWISE GRASS LINING WITH EROSION CONTROL SEED MIXTURE SHALL BE USED.



RECORD DRAWING

IMPROVEMENT PLANS FOR
Deer Creek Park IIa
NEVADA COUNTY ST. ANTHONY ROAD FIRE ACCESS CALIFORNIA

PREPARED BY
NEVADA CITY ENGINEERING, INC.
505 COYOTE STREET - P.O. BOX 1437 - NEVADA CITY - CALIFORNIA

DESIGNED	NCL	DATE	04/19/10	JOB NO.	98-061
DRAWN	NCE	SHEET	12	OF	12

NOTE: CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT (USA) TELEPHONE: (800) 642-2600 TWO DAYS (MIN) PRIOR TO CONSTRUCTION

SCHEDULE OF RATES AND CHARGES
BY NEVADA IRRIGATION DISTRICT

SCHEDULE 4-A
EFFECTIVE JANUARY 1, 2020

**TREATED WATER SYSTEM
STANDBY CHARGES AND CONNECTION FEES**

STANDBY CHARGES - \$6.00 per month for each parcel.

CONNECTION FEES: Single family residence

Drop In (Existing Meter Box and Water Service Lateral)

		-----Capacity Charge-----	
Meter Size	Installation Charge	Parcels In District Prior to 03/01/2007	Parcels Annexed to District After 03/01/2007
5/8"	\$ 667.00	\$ 10,929.00	\$ 14,657.00
3/4"	708.00	15,738.00	21,107.00
Domestic Meter & Fire Meter Installation			
5/8" & 1"	\$ 1,420.00	\$ 10,929.00	\$ 14,657.00
3/4" & 1"	1,461.00	15,738.00	21,107.00

Installation Requiring Tap to Main*

		-----Capacity Charge-----	
Meter Size	Installation Charge	Parcels In District Prior to 03/01/2007	Parcels Annexed to District After 03/01/2007
5/8"	\$ 5,309.00	\$ 10,929.00	\$ 14,657.00
3/4"	5,349.00	15,738.00	21,107.00
1"	5,434.00	27,980.00	37,427.00
1 1/2"	5,753.00	62,941.00	84,725.00
2"	5,964.00	111,914.00	150,099.00
Over 2"	DETERMINED BY DISTRICT		
Domestic Meter & Fire Meter Installation			
5/8" & 1"	\$ 5,736.00	\$ 10,929.00	\$ 14,657.00
3/4" & 1"	5,776.00	15,738.00	21,107.00

***Service Line Installation Cost**

\$66.00 per foot of service line installed per standard detail (in addition to meter installation cost)

NOTE:

Add 25% to all charges above for existing accounts serving lands outside the District (amount rounded to the nearest dollar.) The District does not presently offer treated water service to new accounts serving lands outside the District.

SCHEDULE OF RATES AND CHARGES
BY NEVADA IRRIGATION DISTRICT

SCHEDULE 4-A (CONTINUED)
EFFECTIVE JANUARY 1, 2020

**TREATED WATER SYSTEM
STANDBY CHARGES AND CONNECTION FEES (CONTINUED)**

CONNECTION FEES: Commercial, Industrial, Municipal and Multi-Unit Master Meters

Meter Size	-----Installation Charge-----		Capacity Charge
	Drop-In (Existing Meter Box and Water Service Lateral)	Installation Requiring Tap to Main*	
5/8"	\$ 667.00	\$ 5,309.00	Requires Water Demand Analysis - See Below
3/4"	708.00	5,349.00	
1"	753.00	5,434.00	
1 1/2"	1,028.00	5,753.00	
2"	1,232.00	5,964.00	
Over 2"	DETERMINED BY DISTRICT		
Domestic Meter & Fire Meter Installation			
5/8" & 1"	\$ 1,420.00	\$ 5,736.00	Requires Water Demand Analysis - See Below
3/4" & 1"	1,461.00	5,776.00	

***Service Line Installation Cost**

\$66.00 per foot of service line installed per standard detail (in addition to meter installation cost)

Capacity Charge

Fees will be based on an engineering analysis of expected peak day water capacity provided by the developer's engineer. The District will review the report for acceptance. If accepted, the District will utilize the report to calculate fees based on the peak capacity in Equivalent Residential Units (5/8 inch meter). The 2014 Adopted Capacity Fee Study indicates a peak day capacity of 1,250 GPD per 5/8 inch meter or equivalent (p. 12).

An example of calculation is as following:

Approved Meter Capacity by developers engineer: 6250 GPD

Equivalent ERU Calculation: $6250 \text{ GPD} / 1250 \text{ gal per ERU} = 5 \text{ ERU}$

Capacity Fee Calculation: $5 \text{ ERU} \times \$10,929 / \text{ERU} = \$54,645 \text{ for capacity fees}$

Abandonment of an Existing Service

Customer requesting new meter installation at a location other than existing box and curb stop will be charged an abandonment fee of \$394.20 in addition to applicable meter installation fees. Existing box and curb stop will be removed and the area backfilled. Customer will be responsible for re-vegetation or landscaping.

NOTE:

Add 25% to all charges above for existing accounts serving lands outside the District (amount rounded to the nearest dollar.) The District does not presently offer treated water service to new accounts serving lands outside the District.

AGREEMENT

(Conveyance)

THIS AGREEMENT made and entered into this 25TH day of MAY, 2016, by and between the NEVADA IRRIGATION DISTRICT, hereinafter referred to as "District" and TERRA ALTA DEVELOPMENT COMPANY, hereinafter referred to as "Developer".

RECITALS

WHEREAS, Developer has prepared or caused to be prepared, at Developer's sole cost, expense, and responsibility, plans and specifications entitled Deer Creek Park IIa, (filed in District's office as Deer Creek Park 2 – Ph I Waterline Extension"), as prepared by Nevada City Engineering, Inc. for construction of water system improvements consisting generally of 633 lineal feet of 8-inch C900 pipe, 653 lineal feet of 4-inch C900 pipe, one fire hydrant and all appurtenances thereto, to provide treated water to Nevada County AP 36-230-33 & 36-240-27, a copy of which is attached hereto marked Exhibit "A" and made a part of this Agreement; and

WHEREAS, the plans and specifications contained in Exhibit "A" meet with the Department of Public Health and District Engineer's acceptance; and

WHEREAS, the facilities and lands to be served treated water by said water system improvements lie within the boundaries of the District and are more particularly described in Exhibit "A"; and

WHEREAS, Developer desires District to accept said water system improvements into District's overall water system upon completion; and

WHEREAS, District, subject to the following terms and conditions, as well as those contained in the District's Regulations Relating to Water Service, is willing to accept said water system improvements upon completion, provided the water system improvements are constructed in accordance with the plans and specifications and in a manner meeting District's approval;

NOW, THEREFORE, the parties mutually agree as follows:

ARTICLE 1 - RECITALS: The recitals contained herein are an integral part of this Agreement.

ARTICLE 2 - PLANS: Attached hereto marked Exhibit "A" and made a part of this Agreement is one set of plans reduced to 11" x 17", prepared by the Developer's licensed civil engineer, and consisting of 12 sheets, and specifications for construction of water system improvements. The District's acceptance of these plans and specifications does not constitute a warranty or guaranty by District of proper design nor does it relieve Developer of responsibility for the proper design and construction of the improvements thereon.

ARTICLE 3 – CAPACITY CHARGES AND CONNECTION FEES: Pursuant to Section 10.07 of the District's "Regulations Relating to Water Service", a capacity charge for a minimum size meter shall be paid by the Developer for each parcel to be served by the water system improvements, prior to District's acceptance of the improvements. The capacity charge for a minimum-size meter shall be as shown in Schedule 4-A, entitled, "Treated Water System, Standby

Charges, and Connection Fees”, which is attached hereto and marked Exhibit “B” and made a part of this Agreement. Therefore, Developer, prior to conveying the water system improvements to District, agrees to and shall pay District the then current capacity charges for a 3/4-inch meter (currently \$13,973.00) for each of the 7 parcels shown in Exhibit “A”. Based on the current Schedule 4-A, the total capacity charges to be paid prior to conveyance equals \$97,811.00. Developer understands and agrees to be bound by any District alterations, additions, amendments, revisions, or modifications to Schedule 4-A, or any other District policies, rules, or regulations.

Those parcels described in Exhibit “A”, upon application for water service, shall be credited the then current capacity charges for a 3/4-inch meter and shall otherwise be subject to all connection fees as shown in the then current Schedule 4-A, or its equivalent, and all other then applicable fees and charges.

ARTICLE 4 - ENGINEERING, PLAN-CHECK, AND INSPECTION SERVICES PERFORMED BY DISTRICT: District and Developer understand and agree that Developer shall assume the cost and expense of District’s performance of “engineering, plan-check, and inspection services”, hereinafter referred to as “inspection”, in connection with Developer’s construction of water system improvements described in Exhibit “A” attached hereto. Developer shall deposit the sum of \$4,712, receipt of which is hereby acknowledged by District, which sum shall be applied to Developer’s payment for inspection services performed by District. Should the fee for inspection services exceed the above deposit, Developer agrees to pay any balance due within 30 days after the date of the billing. A late payment charge of 1.5 percent per month will be added on any unpaid balance thereafter. Furthermore, the Developer agrees to pay any balance due prior to offering the improvements to District. District shall not accept conveyance until any balance due is paid. Should the fee for inspection services be less than the above deposit, District shall refund the remaining amount to Developer. The primary purpose of this paragraph within Article 4 is intended to compensate and reimburse District for any and all inspection services performed in connection with Developer’s construction of treated water system facilities described in Exhibit “A” attached hereto. District’s acceptance of payment for inspection services performed is not a warranty or guarantee by District of proper design or proper specifications of materials or construction.

ARTICLE 5 - LABOR AND MATERIAL PAYMENT BONDING REQUIREMENTS: The Developer shall defend and indemnify the District against all claims for nonpayment of labor, material, and other obligations incurred by the Developer, its agents, contractors, employees, and assigns. The estimated cost of construction of the water system improvements is \$98,410.

Should the estimated cost of constructing the improvements be less than \$50,000 at the time of offering the water system improvements to the District, the Developer shall provide a written “OFFER OF DEDICATION” in the form as described in Exhibit “C” attached hereto and made a part hereof. The “OFFER OF DEDICATION” shall state inter alia that the improvements are free and clear of all liens, encumbrances, and other expense.

Should the estimated cost of constructing the water system improvements be less than \$500,000, but more than \$50,000, in addition to supplying a written “OFFER OF DEDICATION” in the form as described in Exhibit “C”, the Developer shall either submit a “RELEASE” agreement in the form of Exhibit “D”, attached hereto and made a part hereof, from each and every contractor, subcontractor, corporation, firm, person, or business entity furnishing materials for or performing labor or other services in performing the terms and provisions of this Agreement, or a Labor and Material Payment Bond to the District in the form prescribed by Exhibit “E” attached hereto and

made a part hereof the principal sum of not less than the estimated construction cost as provided herein. In addition, Developer shall maintain an accurate and current list of all contractors, subcontractors, business entities, corporations, firms, and/or persons performing the terms and provisions of this Agreement, and shall make this list available to the District engineer upon request.

Should the estimated cost of constructing the water system improvements be in excess of \$500,000, the Developer shall, prior to commencing construction, submit a Labor and Material Payment Bond in the form as shown in Exhibit "E" attached hereto and made a part hereof. The bond shall be obtained at the sole cost of Developer and shall be in a principal amount of not less than the estimated cost of construction as set forth herein. In addition, the Developer shall, at the time of offering the water system improvements to the District, provide an "OFFER OF DEDICATION" statement in the form as set forth in Exhibit "C", attached hereto and made a part hereof, which statement verifies that the water system improvements are free and clear of all liens, encumbrances, and other expense.

ARTICLE 6 - INSURANCE REQUIREMENTS: Prior to Developer's commencement of construction of the water system improvements as otherwise set forth in the terms and provisions of this Agreement, general liability insurance naming the District as additional named insured shall be taken out and maintained for the duration of this Conveyance Agreement by Developer or Developer's contractor for claims for damages to property, personal injury, bodily injury, and accidental death. The types of insurance covered under the general liability policy shall include, but not be limited to, comprehensive form, premises-operations, underground hazard, products/completed operations hazard, broad form property damage, independent contractor, and personal injury. Prior to any blasting operations for removal of rock, stumps, or other materials from the work area, the general liability policy must also contain explosion and collapse hazard coverage. It shall also include coverage for Products-Completed Operations liability losses for a period of 12 months from the date of District's acceptance of the completed works. (This time period corresponds with the 12-month maintenance bond requirement.) All insurance acquired under the terms of this article must be obtained through an insurance company authorized and licensed to do business in the State of California. The general liability policy shall contain limits of liability as follows:

1. Bodily Injury: \$1,000,000 for each occurrence, \$1,000,000 aggregate
2. Property Damage: \$500,000 each occurrence, \$500,000 aggregate.

General Liability Insurance policies having combined single limits damage combined of liability shall carry limits for bodily injury and property damage combined of \$1,000,000 each occurrence and \$1,000,000 aggregate.

The certificate of insurance shall also have a description of operations/locations/vehicles that refers specifically to the water system improvements.

ARTICLE 7 - PROOF OF INSURANCE: The Developer shall submit or cause to be submitted a copy of the insurance policy(ies) with endorsements and exclusions, and shall submit a certified copy of the endorsement naming the District as additional insured to the District as proof of general liability insurance as required by this Agreement. Developer shall receive District approval that the insurance requirements of this Agreement have been met. The Developer must receive this approval prior to the start of construction pursuant to the terms of this Agreement.

ARTICLE 8 - HOLD HARMLESS AND INDEMNIFICATION: Developer shall hold District and District's agents, officers, and employees harmless from any and all claims, lawsuits, acts, or omissions arising out of Developer's performance of the terms and conditions of this Agreement. Likewise, Developer shall defend and/or pay the cost of defending and indemnifying District together with District's Agents, employees, and officers from all civil proceedings, claims, and/or judgments including, but not limited to, payment of all attorney fees and litigation costs.

ARTICLE 9 – INSPECTION OF WORK: Developer shall give two working days' advance notice prior to Developer's contractor starting any work associated with the water system improvements and shall keep District informed of construction schedules throughout the course of the work in order for District to properly schedule inspection personnel. It is suggested that Developer's contractor provide District submittals on any materials proposed for the water system improvements for approval prior to purchase.

ARTICLE 10 - BEGINNING OF WORK OR TERMINATION: This Agreement shall terminate and be of no further force or effect at District's discretion should District determine that Developer has failed to cause construction of the water system improvements as shown on Exhibit "A" to commence within nine (9) months from the date of this Agreement.

For purposes of this Article, Developer's commencement of construction shall not be deemed to have occurred upon one or any combination of the following actions or events:

1. Bid advertisement
2. Execution of contracts or bonds
3. Ordering of material and supplies or the delivery and stockpiling of materials and supplies on the job site.
4. Clearing and grubbing for or construction of roads including the completion of rough subgrade work.

District and Developer understand and agree that construction upon the water system improvements shall be deemed to have commenced when Developer causes its properly-licensed contractor to excavate and backfill pipeline in excess of 10 percent of the total water system to be constructed pursuant to the terms of this Agreement. The District engineer shall make the determination as to the percentage of water system caused to be constructed and installed by Developer.

ARTICLE 11 - CONSTRUCTION: Developer shall cause the water system improvements described in Exhibit "A" to be constructed by a properly-licensed contractor, without expense to District, and District shall not be responsible for any of the cost of said improvements. The Developer is not acting as a contractor, agent, official, or representative of District in constructing or providing such water system improvements, or in causing such improvements to be installed. This Agreement simply provides for the transfer and assumption of responsibility for such water system improvements to be installed upon completion and upon performance of all terms of this Agreement to be performed by Developer. The approval of the plans and specifications as presented by Developer shall not be deemed as a warranty or guarantee by District of proper design or proper specifications of materials or construction. District specifically relies upon the design and specifications as prepared or caused to be prepared by Developer as being in keeping with the requirements of District, as being in accordance with the conditions of the geography, and as having specific materials and equipment of the highest practicable quality and character. The Developer will provide a licensed civil engineer to act as the project engineer during construction.

ARTICLE 12 - NOTIFICATION OF DEVIATIONS OR FAILURES: District agrees to notify Developer in writing as to any deviations or failure in construction of the water system improvements pursuant to said plans and specifications, and the requirements of said District as soon as any deviation is brought to District's attention, and Developer shall immediately cause such deviation or failure to be corrected at the sole cost of Developer. Developer agrees that District is not, by inspection of the construction or installation of the improvements, representing Developer or providing a substitute for inspection and control of the work by Developer. Developer agrees that any inspections and observations of the work by District are for the sole purposes of providing notice of the stage and character of the work. Developer agrees that the failure of the District to note variances from the plans and specifications for the project does not excuse or exempt Developer from complying with all terms of these plans and specifications.

ARTICLE 13 - REIMBURSEMENT FOR MONIES EXPENDED BY DEVELOPER: Should Developer desire reimbursement for the monies expended in the installation and construction of water system improvements as provided in the terms and provisions of this Agreement in addition to all other monies expended for the acquisition of rights of way and employment of engineers and contractors for construction, planning, and design of the water system improvements, then Developer shall request such reimbursement in writing and deliver such writing to District headquarters 30 days prior to conveyance of the water system improvements to District as provided in Article 15 herein. District, upon receiving Developer's written request for reimbursement for monies expended pursuant to the terms and provisions of this Agreement, will then determine whether or not Developer is entitled to reimbursement pursuant to District policies, rules, and regulations then in effect. Should District determine that Developer may be entitled to reimbursement, then District, in its sole discretion, may enter into a reimbursement agreement with Developer which shall provide for the method and manner by which Developer would achieve reimbursement of its monies expended for the construction and installation of the water system improvements. Should the District, in its discretion, determine to enter into a reimbursement agreement with Developer, such agreement shall be prepared and entered into prior to Developer's conveyance of water distribution facilities to District, all as set forth in Article 15 herein. The reimbursement agreement shall provide for the method and manner by which District may assist Developer in obtaining reimbursement of a portion of monies expended by Developer for the water system improvements constructed pursuant to the terms of this Agreement.

The Developer is advised that for facilities installed with public funds, the Labor Code requires that all craftsmen, mechanics and laborers be paid the local prevailing wages. The District has not ascertained whether or not reimbursement could be construed as public funding. The Developer assumes all risk as to whether reimbursement could be construed as public funding, and indemnifies the District from all liability claims arising or alleged to arise from construction wages not conforming to local prevailing wages.

ARTICLE 14 - COMPLETION OF WORK OR TERMINATION: This Agreement shall terminate and be of no further force or effect at District's discretion should District determine that Developer has failed to cause construction of the water system improvements as shown on Exhibit "A" to be completed within one and one-half (1-1/2) years from the date of this Agreement.

For the purposes of this Article, Developer's completion of the construction shall occur upon the District's accepting conveyance of the water system improvements pursuant to Article 15 of this Agreement. Developer further understands and agrees that District may withhold acceptance of Developer's proposed dedication of the facilities should the District Engineer determine that any portion of the water system improvements have failed to pass appropriate pressure and leakage tests or that samples of water taken from the treated water lines and tested

are determined not to be safe by the District Engineer. Developer understands and agrees the District may also withhold acceptance of the proposed dedication of water system should the District Engineer determine that Developer failed to complete all other construction either over, under or adjacent to the water system improvements including but not limited to final road grade, paving, curbs, gutters, sidewalks, all other utilities, and restoration of rights of way.

ARTICLE 15 - CONVEYANCE: Upon completion of the water system improvements in a manner meeting District's approval, Developer shall immediately convey said improvements and title thereto free and clear of all liens, encumbrances and expense to District by such conveyance and documents as deemed necessary by District, including but not limited to the following:

1. An executed "OFFER OF DEDICATION" (Exhibit "C") offering the water system improvements shown on Exhibit "A" to the District.
2. "RELEASE" statements (Exhibit "D") from every contractor, subcontractor, corporation, firm or business entity furnishing materials for or performing labor or other services, OR a Labor and Material Payment Bond (Exhibit "E"), all as specified in Article 5.
3. Developer shall provide District with proof satisfactory to District that Developer has acquired all local, state, and federal permits, maps or licenses and that Developer shall comply with all local, state and federal rules, ordinances and regulations relevant to the real property on, over or under which the water system improvements are situated.
4. Payment of capacity charges due District pursuant to then current District rules and regulations and as specified in Article 3 of this Agreement.
5. Payment of any balance due for engineering, plan-check, and inspection services performed by District.
6. One set of 24-inch by 36-inch reproducible "as-built" drawings on Mylar or material of suitable durability of the improvements constructed and electronic copies in pdf or tif and AUTOCAD.
7. All easements and rights of way required by District.
8. The Developer-constructed water system shall be flushed (or re-flushed) and shall pass bacteriological testing no earlier than 14 calendar days prior to the date the General Manager accepts the Offer of Dedication. The Developer shall provide for proper drainage and de-chlorination equipment during flushing operations.
9. Developer shall furnish a Maintenance Bond in the form prescribed in Exhibit "F" attached hereto and made part hereof in an amount of not less than 20 percent of construction cost of the water system improvements protecting the District against any failure of the work due to faulty materials, poor workmanship, or defective equipment within a period of one year following acceptance of the "OFFER OF DEDICATION" of the water system improvements by the District's Board of Directors.

In place of a Maintenance Bond, the Developer may offer a certificate of deposit or an irrevocable letter of credit meeting the District's approval as to form and financial institute utilized. Certificates of deposit used in lieu of a maintenance bond must be opened either in the Developer's name and specifically assigned to the District or opened on behalf of the District only. The signatory for the District shall be the Treasurer or Assistant Treasurer of the District.

District, upon approving the work in writing, shall accept the "OFFER OF DEDICATION" of the water system improvements and include said improvements into its overall water system and shall operate, maintain, and repair said improvements except as specified during the warranty period.

ARTICLE 16 - APPLICATION FOR WATER: No water shall be delivered to or conveyed by or through the water system improvements shown on Exhibit "A", other than for testing purposes, until said water system is conveyed to District, formally accepted by District, and proper applications for water service have been filed with District and accepted.

ARTICLE 17 - OBLIGATION FOR PIPELINES AND/OR FACILITIES: District shall be under no obligation to provide additional pipelines and/or facilities in order to serve water to Developer's project. Upon acceptance of the water system improvements by District, it shall become the sole property of District and shall be used and operated at District's sole discretion.

ARTICLE 18 - RULES AND REGULATIONS: Upon the water system improvements being accepted by District, Developer, its successors and assigns, shall be subject to and shall comply with all of the rules and regulations of District and shall pay the water rates, tolls and charges, and standby charges as they may be levied and/or established by District's Board of Directors from time to time.

For purposes of determining standby charges, each parcel to be served from the water system improvements will be assessed from the District acceptance date regardless of the status of the recording of the final map by the appropriate county.

ARTICLE 19 - ASSIGNMENT: No transfer or assignment may be made by Developer of this Agreement or any part or interest of law unless such transfer or assignment is approved in writing by the District, provided further that District shall not unreasonably withhold consent to transfer or assignment. In the event of such transfer or assignment, District may, at its sole option and in addition to any other remedy that it may have, elect to terminate this Agreement.

ARTICLE 20 - NOTICES: The mailing addresses of District and Developer for purposes of giving any notice required pursuant to this Agreement are as follows:

DISTRICT	DEVELOPER
NEVADA IRRIGATION DISTRICT	TERRA ALTA DEVELOPMENT COMPANY
1036 West Main Street	P.O. Box 1657
Grass Valley, CA 95945	Nevada City, CA 95959

IN WITNESS WHEREOF, the parties hereto have executed this Agreement on the day and year first above written.

NEVADA IRRIGATION DISTRICT
By Nancy V. Wilson President
By Jim Francis Jassone Secretary
DEVELOPER
By Arnold Pres.
By Terra Alta Dev.

In case of a parcel split, the existing service will be assigned, at the sole discretion of the District, to one of the newly created parcels. The remaining new parcel(s) which may be served from the extension will be subject to the reimbursement.

The parcel reimbursement fee shall not be applied more than once to any parcel, of the cost of the extension. The cost of the extension shall be considered to be the Developer's out-of-pocket expenses directly and solely related to the installation of the extension, as determined by the District. The Developer's on-site improvements will be excluded from the cost of the extension.

eff. 04/11/2001; rev 6/11/03; rev 11/9/05; rev 03/28/18

10.06.02 Reimbursement for District Installed Pipelines

The District will collect a reimbursement charge, where applicable, before connecting a water service, including a private fire service, to a parcel which lies along and may be served directly from any pipeline installed by the District. The reimbursement charge for each parcel will be determined by specific methods established by District policy. The cost subject to the charge will be based on all costs to install the pipeline, including labor, equipment, materials, and incidentals for the design, installation, and inspection, legal costs, easements, environmental documentation, permits, and restoration. The reimbursement charge will be calculated to represent the proportionate costs of installing a distribution pipeline (8-inch diameter distribution pipeline, or larger if required for fire flow and other needs of the immediate area) for those parcels served and/or anticipated to be served directly by the pipeline, regardless of the actual pipe size installed by the District.

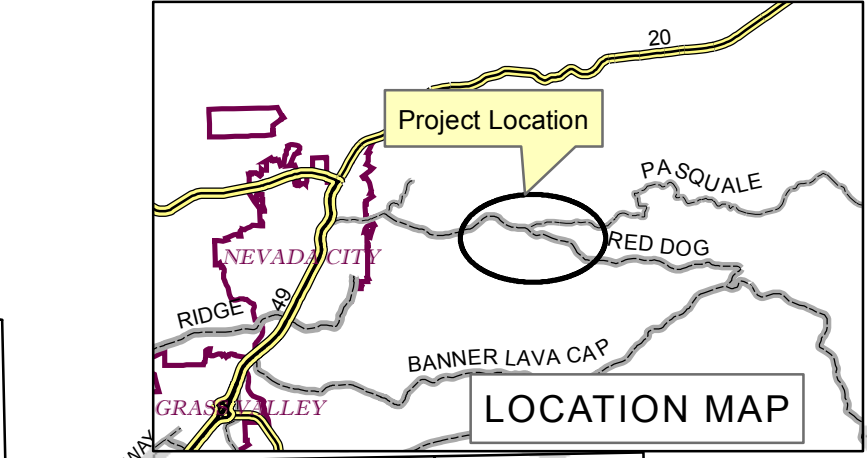
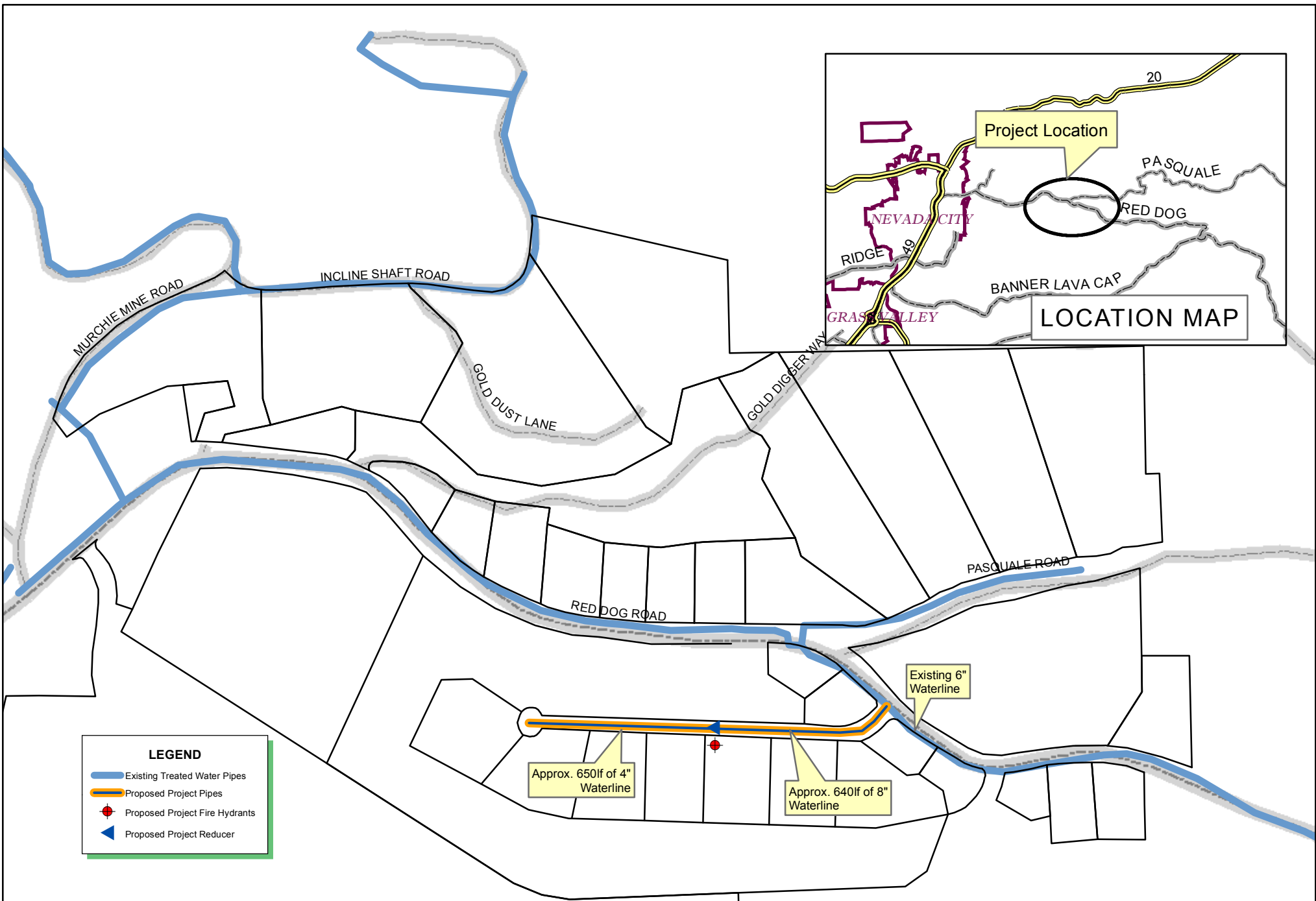
eff. 9/1/13

10.07 PREPAYMENT OF CAPACITY CHARGES

All treated water extensions serving greater than four parcels will require the payment of a minimum size meter capacity charge, as shown in Schedule 4-A, for each parcel to be served prior to District acceptance of the extension in the case of developer-constructed extension. District sponsored water line projects are not subject to the requirement of prepayment of capacity charges.

rev. 11/14/07

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LEGEND

- Existing Treated Water Pipes
- Proposed Project Pipes
- ◆ Proposed Project Fire Hydrants
- ▲ Proposed Project Reducer



NEVADA IRRIGATION DISTRICT
 NEVADA COUNTY -- PLACER COUNTY
 GRASS VALLEY, CALIFORNIA

DEER CREEK PARK IIa WATERLINE EXTENSION

Drawn By: D. HUNT Date: 4/25/2016 Scale: 1" = 400' @ 8-1/2x11 Sheet: 1 of 1