
Appendix A
Environmental Commitments

Project Specific Environmental Commitments Summary Table, Project # NM FLAP 11299(1), Dripping Springs Road and Baylor Canyon Road

No.	Commitment	Resources	Agency/Person Responsible	FP/SCR/Plan Sheet #/ Comp Date
1	A certified paleontological monitor will be on hand during ground disturbing activities within areas with the highest potential fossil yield classification (the Camp Rice Formation, of the Upper Santa Fe Group).	Paleontological	CFLHD	107.02
2	Prior to monitoring, a surface inspection will be completed in the area of disturbance to identify the locations of any surface accumulations of bone or tooth fragments which could be indicative of fossil remains eroding onto the surface.	Paleontological	CFLHD	107.02
3	Any fossil remains that meet the BLM significance criteria, per the certified paleontological monitor, will be prepared to the point of curation, identified, and repositied in the New Mexico Museum of Natural History and Science.	Paleontological	CFLHD	107.02
4	Construction activities within 500 feet of residential uses will be limited to the hours between ½ hour after sunrise to ½ hour before sunset.	Noise	CFLHD	107.02
5	Stationary sources will be located as far from sensitive receptors as practicable.	Noise	CFLHD	107.02
6	Water pipeline conduit and water pipe will be carried beneath Dripping Springs Road to repair any damage to the existing pipe during construction.	Livestock	CFLHD	To be determined during final design
7	All cattle guards, fencing, and gates impacted by the project will be replaced.	Livestock	CFLHD	To be determined during final design
8	The SHPO, FHWA, and BLM will enter into an Memorandum of Agreement for mitigations to historic resources.	Culture Resources	CFLHD	To be determined during final design
9	“Wildlife Xing” signs will be placed in the project area.	Wildlife	CFLHD	To be determined during final design
10	“Share the Road: signage will be placed in the project area.	Recreation	CFLHD	To be determined during final design

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No.	Commitment	Resources	Agency/Person Responsible	FP/SCR/Plan Sheet #/ Comp Date
11	“Local Traffic Only” signs will be placed in the project area to preclude through use by commercial trucks.	Transportation	CFLHD	To be determined during final design
12	Soil and gravel will be sources from local sources to better match existing conditions and reduce the potential of introducing vegetation within the project area	Geology	CFLHD	704, 713
13	If vegetation removal is to occur during breeding season (March 1–August 31). pre-construction nest surveys to eliminate the possibility of impacts to nesting birds will be performed.	Migratory Birds	BLM/CFLHD	To be determined during final design
14	Plant species desirable to the public (barrel cactus etc.) will be removed and given to the public when possible within the area of construction.	Vegetation	BLM	To be determined during final design

No.	Standard Environmental Commitments Summary Table, Project # NM FLAP 11299(1), Dripping Springs Road and Baylor Canyon Road	Resources	FP/SCR
1	Use only approved portions of the right-of-way for storing material and placing plants and equipment. Provide all additional space needed. Do not use private property for storage without written permission of the owner or lessee. Furnish copies of all agreements. Restore all Government-provided storage sites to their original condition.	Right-of-Way	FP 105.04
2	Comply with the terms and conditions of the 404 permit and with the terms and conditions, if any, specified in the 401 certification. Comply with the terms and conditions of any permits that are issued for the performance of work within the jurisdictional waters of the U.S.	Wetlands, Waters of the U.S., Water Quality	SCR 107.01
3	Do not disturb the area beyond the construction limits. Replace trees, shrubs, or vegetated areas damaged by construction operations as directed. BML will provide input on any necessary seed mix.	Vegetation	FP 107.02
4	Do not excavate, remove, damage, alter, or deface any archeological or paleontological remains or specimens. Control the actions of employees and subcontractors on the project to ensure that protected sites are not disturbed or damaged.	Cultural Resources	FP 107.02
5	Construction equipment is required to be maintained in proper working condition to minimize construction noise.	Noise	SCR 107.10©
6	<p>Properly clean up, mitigate, and remedy, if necessary, all spills of petroleum products, hazardous materials, or other chemical or biological products released from construction, fleet, or other support vehicles, or stationary sources. Respond in accordance with federal, state, and local regulations.</p> <p>Immediately report to the CO any spill of petroleum products or a hazardous material. Report the spill to the appropriate federal, state, and local authorities, if the spill is a reportable quantity.</p>	Hazardous Materials	SCR 107.10
7	All vehicles and equipment entering the project area must be clean of noxious weeds and free from oil leaks and are subject to inspection. Wash all construction equipment to thoroughly remove all dirt, plant, and other foreign material prior to entering the project. Particular attention must be shown to the under carriage and any surface where soil containing exotic seeds may exist. These efforts are critical to prevent the introduction and establishment of non-native plant species into the project area. Make arrangements for the CO to inspect each piece of equipment before entering the project. The CO will maintain records of inspections. Equipment found operating on the project that has not been inspected, or has oil leaks will be shut down and subject to citation.	Noxious weeds	SCR 107.10

No.	Standard Environmental Commitments Summary Table, Project # NM FLAP 11299(1), Dripping Springs Road and Baylor Canyon Road	Resources	FP/SCR
8	<p>In general, when gasoline, diesel fuel, antifreeze, hydraulic fluid or any other chemical contained within the vehicle is released to the pavement or ground, proper corrective, clean-up, and safety actions specified in the SWPPP must be immediately implemented. All vehicles with load rating of 2 tons or greater should carry, at minimum, enough absorbent materials to effectively immobilize the total volume of fluids contained within the vehicle.</p> <p>Repair oil leaks immediately on discovery. Do not use equipment that is leaking. Have oil pans and absorbent material in place prior to beginning repair work. Have the “on scene” capability of catching and absorbing leaks or spillages of petroleum products including antifreeze from breakdowns or repair actions with approved absorbent materials. Keep a supply of acceptable absorbent materials at the job site in the event of spills, as defined in the SWPPP. Sand or soil are not approved absorbent materials.</p> <p>Use oil pans and absorbent materials to prevent leaks, spills and draining petroleum fluids from falling onto bare ground and paved surfaces during servicing of equipment. Dig up soils contaminated with such fluids, place in appropriate safety containers, and dispose of according to state and/or federal regulations.</p>	Hazardous Materials	SCR 107.10
9	Provide permanent and temporary erosion control measures to minimize erosion and sedimentation during and after construction according to the contract erosion control plan, contract permits, FP Section 107, FP Section 157, and SCR Section 157.	Water Quality, Vegetation	FP 157.03
10	<p>Before grubbing and grading, construct all erosion controls around the perimeter of the project including filter barriers, diversion, and settling structures.</p> <p>Limit the combined grubbing and grading operations area to 350,000 square feet of exposed soil at one time.</p>	Water Quality, Vegetation	FP 157.04
11	Maintain temporary erosion control measures in working condition until the project is complete or the measures are no longer needed.	Water Quality, Vegetation	FP 157.13
12	<p>Control dust within the construction limits at all hours when the project is open to public traffic. When the project is not open to public traffic, control dust in areas of the project which neighbor inhabited residences or places of business. Control dust on approved, active detours established for the project.</p> <p>Control dust on active haul roads, in pits and staging areas.</p> <p>The measures above will be part of a Dust Abatement Plan developed specifically for the project.</p>	Air Quality	FP 158.03
13	Removal of structures and obstructions: Construct structurally adequate debris shields to contain debris within the construction limits. Do not permit debris to enter waterways, travel lanes open to public traffic, or areas designated not to be disturbed.	Water Quality	FP 203.04
14	Apply turf establishment to finished slopes and ditches within 14 days after completion of construction on a portion of the site.	Water Quality, Vegetation	FP 625.03

No.	Standard Environmental Commitments Summary Table, Project # NM FLAP 11299(1), Dripping Springs Road and Baylor Canyon Road	Resources	FP/SCR
15	Protect and care for seeded areas including watering when needed until final acceptance. Repair all damage to seeded areas by reseeding, refertilizing, and mulching.	Vegetation	FP 625.09
16	Conform to the Federal Seed Act, the Federal Noxious Weed Act, and applicable State and local seed and noxious weed laws.	Vegetation, Noxious Weeds	FP 713.04
17	Temporary closures, if needed, will be scheduled to occur only Monday through Friday, and would not occur during holidays.	Transportation	SCR 156.04
18	Uninterrupted access for emergency vehicles will be maintained for the duration of construction	Transportation	SCR 156.04
19	Public notices of construction locations, dates, and times will be provided in advance through on-site information signs, as appropriate.	Transportation	SCR 107.6
21	A Storm Water Pollution Prevention Plan will be developed for the proposed improvements to obtain National Pollutant Discharge Elimination System permit coverage. This plan will include measures that serve as best management practices (BMP), including permanent measures, to reduce the potential for impacts to water quality. The BMPs for erosion and sediment control will focus primarily on protecting receiving waters and water sources in areas of construction activity. The BMPs will include, but are not limited to, silt fencing, inlet protection, and riprap outlet protection at culverts	Water Quality	SCR 107.01

BLM STANDARD STIPULATIONS
NMNM 131088
JULY 2015

1. Right-of-way (ROW) Construction Administration

The Holder shall contact the AO (AO) at least seven days prior to the anticipated start of construction and/or any surface disturbing activities. The AO shall require and schedule a preconstruction conference with the Holder prior to the Holder's commencing construction and/or surface disturbing activities on the ROW. The Holder and/or his representative shall attend this conference. The Holder's contractor, or agents involved with construction and/or any surface disturbing activities associated with the ROW, shall also attend this conference to review the stipulations of the grant including the plan(s) of development.

The Holder shall submit a plan of development (POD) that describes in detail the construction, operation, maintenance, and termination of the ROW and its associated improvements and/or facilities. The plan shall include drawings in sufficient detail to enable a complete evaluation of all proposed structures, facilities, and landscaping to ensure compliance with the requirements of the grant and to ensure visual compatibility with the site. These drawings shall be the construction documents and must show dimensions, materials, finishes, etc. to demonstrate compliance with all requirements. The plans shall be reviewed and, if appropriate, modified and approved by the AO. An approved plan of development shall be made a part of the ROW grant.

The Holder shall construct, operate, and maintain the facilities, improvements, and structures within this ROW in strict conformity with these stipulations (and POD) and the terms and conditions of the ROW grant. Any relocation, additional construction, or use that is not in accord with the approved stipulations, shall not be initiated without the prior written approval of the AO. A copy of the complete ROW grant, including all stipulations, shall be made available on the ROW area during construction, operation, and termination to the AO. Noncompliance with the above shall be grounds for an immediate temporary suspension of activities if it constitutes a threat to public health and safety or the environment.

The Holder shall perform the necessary transportation studies and recommend a road standard to meet the purpose of the road. This standard and the topography, soils, and geologic hazards of the lands crossed shall define the level of survey and design necessary. Accepted standards for road design, including the BLM Manual Section may be used.

The Holder shall obtain the services of a licensed professional engineer to locate, survey, design, and construct the proposed road as directed by the AO. The road design shall be based on the (1) width, (2) maximum grade, and (3) design speed of the road.

The Holder shall submit standard or typical cross sections of the road to be constructed, maintained, or reconstructed as directed by the AO. The cross sections should include, but are not limited to, the proposed road width, ditch dimensions, cut and fill slopes, and typical culvert installation.

All design, material, and construction, operation, maintenance, and termination practices shall be in accordance with safe and proven engineering practices.

The Holder shall designate a representative who shall have the authority to act upon and to implement instructions from the AO. The Holder's representative shall be available for communication with the AO within a reasonable time when construction or other surface disturbing activities are underway. The Holder shall file a proof of construction within 90 days after completion of construction.

2. Work Limits

The Holder shall conduct all activities associated with new construction, operation, and termination of the ROW within the authorized limits of the ROW as identified in the POD.

Holder shall remove only the minimum amount of vegetation necessary for the construction of structures and facilities. Topsoil shall be conserved during excavation and reused as cover on disturbed areas to facilitate regrowth of vegetation.

Holder shall limit excavation to the areas of construction. No borrow areas for fill material shall be permitted on the site. All off-site borrow areas must be approved in writing by the AO in advance of excavation. All waste material resulting from construction or use of the site by Holder shall be removed from the site. All waste disposal sites on public land must be approved in writing by the AO in advance of use.

Materials encountered on the project and needed for select borrow, surfacing, riprap, or other special needs shall be conserved.

The Holder shall place slope stakes, culvert location and grade stakes, and other construction control stakes as deemed necessary by the AO to ensure construction in accordance with the plan of development. If stakes are disturbed, they shall be replaced before proceeding with construction. Stakes shall remain in place until removal is approved by the AO.

The Holder shall survey and clearly mark the centerline and/or exterior limits of the ROW, as determined by the AO. Markings shall remain in place until removal is approved by the AO.

Construction holes left open overnight shall be covered. Covers shall be secured in place and shall be strong enough to prevent livestock or wildlife from falling through and into a hole.

3. Drainage Structures

The Holder shall furnish and install culverts of the gauge, materials, diameter(s), and length(s) indicated and approved by the AO. Culverts shall be free of corrosion, dents, or other deleterious conditions. Culverts shall be placed on channel bottoms on firm, uniform beds which have been shaped to accept them and aligned to minimize erosion. Backfill shall be thoroughly compacted. No equipment shall be routed over a culvert until backfill depth is adequate to protect the culverts.

As directed by the AO, the Holder shall submit a complete culvert list to reflect the drainage plan for the road. The list shall include, but not be limited to, size(s), lengths, and locations of the culverts.

The Holder shall construct low-water crossings in a manner that shall prevent any blockage or restriction of the existing channel. Material removed shall be stockpiled for use in rehabilitation of the crossings.

The Holder shall design and construct adequate water-control structures in each drainage crossing to prevent excessive erosion along the pipeline and protect the pipeline from the natural erosion process within the drainage.

4. Access to and Along the ROW During New Construction

Construction-related traffic shall be restricted to routes approved by the AO. New access roads or cross-country vehicle travel shall not be permitted unless prior written approval is given by the AO. Authorized

roads used by the Holder shall be rehabilitated or maintained when new constructions activities are complete as approved by the AO.

The Holder shall permit free and unrestricted public access to and upon the ROW for all lawful purposes except for those specific areas designated as restricted by the AO to protect the public, wildlife, livestock, or facilities constructed within the ROW.

The Holder shall provide for the safety of the public entering the ROW. This includes, but is not limited to, barricades for open trenches, flagmen/women with communication systems for single-lane roads without visible turnouts, and attached gates for blasting operations.

Construction excavations, holes and trenches in roadways or in areas where pedestrians or vehicular traffic is present shall be flagged, plated or appropriately marked as required.

5. Maintenance of ROW

No construction or routine maintenance activities shall be performed during periods when the soil is too wet to adequately support construction equipment. If such equipment creates ruts in excess of three inches deep, the soil shall be deemed too wet to adequately support construction equipment.

Holder shall maintain the ROW in a safe, usable condition, as directed by the AO. A regular maintenance program shall include, but is not limited to, blading, ditching, culvert installation and surfacing.

6. Cultural and Paleontological Resources

Specific sites as identified by the AO (e.g., archaeological sites, areas with threatened and endangered species, or fragile watersheds) where construction equipment and vehicles shall not be allowed shall be clearly marked onsite by the Holder before any construction or surface disturbing activities begin. The Holder shall be responsible for assuring that construction personnel are well trained to recognize these markers and understand the equipment movement restrictions involved.

Any cultural and/or paleontological resource (historic or prehistoric site or object) discovered by the Holder, or any person working on his behalf, on public or Federal land shall be immediately reported to the AO. Holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the AO. An evaluation of the discovery shall be made by the AO to determine appropriate actions to prevent the loss of significant cultural or scientific values. The Holder shall be responsible for the cost of evaluation and any decision as to proper mitigation measures shall be made by the AO after consulting with the Holder.

7. Waste Disposal

The ROW site shall be maintained in a sanitary condition at all times; waste materials at those sites shall be disposed of promptly at an appropriate waste disposal site. "Waste" means all discarded matter including, but not limited to, human waste, trash, garbage, refuse, oil drums, petroleum products, ashes, and equipment.

8. Air and Dust Control

The Holder shall meet Federal, State, and local emission standards for air quality. The Holder shall furnish and apply water or other means satisfactory to the AO dust control.

9. Fences and Cattle Guards

The Holder shall minimize disturbance to existing fences and other improvements on public lands. The Holder is required to promptly repair impacted improvements to at least their former state. The Holder shall contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting of the fence. No permanent gates shall be allowed unless approved by the AO. Fences, gates, and brace panels shall be reconstructed to appropriate Bureau standards and/or specifications as determined by the AO.

When construction activity in connection with the ROW breaks or destroys a natural barrier used for livestock control, the gap, thus opened, shall be fenced to prevent the drift of livestock. The subject natural barrier shall be identified by the AO and fenced by the Holder as per instruction of the AO.

Fences and Cattle guards shall be constructed and installed as directed by the AO (drawings and specifications attached).

10. Signs

No signs or advertising devices shall be placed on the premises or on adjacent public land except those posted by or at the direction of the AO.

11. Industrial and Toxic Waste Disposal

The Holder(s) shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the Holder(s) shall comply with the Toxic Substances Control Act of 1976, as amended (15 U.S.C. 2601, *et seq.*) with regard to any toxic substances that are used, generated by or stored on the ROW or on facilities authorized under this ROW grant (See 40 CFR, Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.). Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation and Liability Act of 1980, Section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the AO concurrent with the filing of the reports to the involved Federal agency or State government.

The Holder of ROW No. NMNM 066392 agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, *et seq.* or the Resource Conservation and Recovery Act of 1976, 42 U.S.C. 6901 *et seq.*) on the ROW (unless the release or threatened release is wholly unrelated to the ROW Holder's activity on the ROW). This agreement applies without regard to whether a release is caused by the Holder, its agent, or unrelated third parties.

12. Indemnification

The United States, its officers and employees shall be held harmless from and indemnified against any damage, injury, or liability resulting from the construction, operation, or maintenance arising from the occupancy or use of public lands under this authorization.

13. Survey Monuments

The Holder shall protect all survey monuments found within the ROW. Survey monuments include, but are not limited to, General Land Office and Bureau of Land Management (BLM) Cadastral Survey Corners, reference corners, witness points, U.S. Coastal and Geodetic benchmarks and triangulation stations, military control monuments, and recognizable civil (both public and private) survey monuments. In the event of obliteration or disturbance of any of the above, the Holder shall immediately report the incident, in writing, to the AO and the respective installing authority if known. Where General Land Office or BLM ROW monuments or references are obliterated during operations, the Holder shall secure the services of a registered land surveyor or a Bureau cadastral surveyor to restore the disturbed monuments and references using surveying procedures found in the Manual of Surveying Instructions for the Survey of the Public Lands in the United States, latest edition. The Holder shall record such survey in the appropriate county and send a copy to the AO. If the Bureau cadastral surveyors or other Federal surveyors are used to restore the disturbed survey monument, the Holder shall be responsible for the survey cost.

14. Civil Rights

The Holder of this ROW grant or the Holder's successor in interest shall comply with Title VI of the Civil Rights Act of 1964 (42 U.S.C. 2000d et seq.) and the regulations of the Secretary of the Interior issued pursuant thereto.

15. Corp of Engineers 404 Permits

The Holder shall comply with the construction practices and mitigating measures established by 33 CFR 323.4, which sets forth the parameters of the "nationwide permit" required by Section 404 of the Clean Water Act. If the proposed action exceeds the parameters of the nationwide permit, the Holder shall obtain an individual permit from the appropriate office of the Army Corps of Engineers and provide the AO with a copy of same. Failure to comply with this requirement shall be cause for suspension or termination of this ROW grant.

16. Other

In the event that the public land underlying the ROW encompassed in this grant, or a portion thereof, is conveyed out of Federal ownership and administration of the ROW or the land underlying the ROW is not being reserved to the United States in the patent/deed and/or the ROW is not within a ROW corridor being reserved to the United States in the patent/deed, the United States waives any right it has to administer the ROW, or portion thereof, within the conveyed land under Federal laws, statutes, and regulations, including the regulations at 43 CFR Part [2800][2880], including any rights to have the Holder apply to BLM for amendments, modifications, or assignments and for BLM to approve or recognize such amendments, modifications, or assignments. At the time of conveyance, the patentee/grantee, and their successors and assigns, shall succeed to the interests of the United States in all matters relating to the ROW, or portion thereof, within the conveyed land and shall be subject to applicable State and local government laws, statutes, and ordinances. After conveyance, any disputes concerning compliance with the use and the terms and conditions of the ROW shall be considered a civil matter between the patentee/grantee and the ROW Holder.

17. Termination

Six months prior to termination of the ROW, the Holder shall contact the AO to arrange a joint inspection of the ROW. This inspection shall be held to agree to an acceptable termination (and rehabilitation) plan.

This plan shall include, but is not limit to, removal of facilities, drainage structures, or surface material, re-contouring, top-soiling, or seeding. The AO must approve the plan in writing prior to the Holder's commencement of any termination activities.

BLM SPECIAL STIPULATIONS
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1. Noxious Weed Control

The Holder shall be responsible for weed control on disturbed areas within the limits of the site. The Holder is responsible for consultation with the AO and/or local authorities for acceptable weed control methods, which include following EPA and BLM requirements and policy.

Power or high-pressure clean all equipment of all mud, dirt, and plants immediately prior to moving into the project area. Any gravel or fill to be used must come from weed-free sources. Inspect gravel pits and fill sources to identify weed-free sources. No soil spoil that could potentially contain noxious weed seeds shall be transported out of the area where it is created.

The project applicants shall be responsible for conducting a survey for and control of noxious weeds along the route proposed for construction. If during construction noxious weeds are identified that were not originally encountered during the survey, the project applicant shall avoid driving vehicles and equipment through or over the infested area. If avoidance measures cannot be taken within the area originally cleared, construction shall cease and the project inspector (PI) or the AO contacted.

Any use of herbicides/pesticides shall comply with the applicable Federal and State laws. Herbicides/pesticides shall be used only in accordance with their registered uses and within limitations imposed by the Secretary of the Interior. Prior to the use of pesticides, Holder shall obtain from the AO written approval of a plan showing the type and quantity of materials to be used, pest(s) to be controlled, method of application, location of storage and disposal of containers, and any other information deemed necessary by the AO. Emergency use of pesticides shall be approved in writing by the AO prior to use.

2. No activity shall occur within the Wilderness Study Area.

3. A certified paleontological monitor shall be present during ground disturbing activities within areas with the highest potential fossil yield classification (the Camp Rice Formation, of the Upper Santa Fe Group).

Prior to monitoring, a surface inspection shall be completed in the area of disturbance to identify the locations of any surface accumulations of bone or tooth fragments which could be indicative of fossil remains eroding onto the surface. Any fossil remains that meet the BLM significance criteria, per the certified paleontological monitor, shall be prepared to the point of curation, identified, and repositied in the New Mexico Museum of Natural history and Science.

4. Stationary sources shall be located as far from sensitive receptors as practicable.

5. All cattle guards, fencing, and gates impacted by the project shall be replaced.

6. Holder shall comply with the Memorandum of Agreement entered between the SHPO, FHWA and BLM for mitigations to historic resources.

7. "Wildlife Xing" signs shall be placed in the project area.

8. "Share the Road" signage shall be placed in the project area.

9. “Local Traffic Only” signs shall be placed in the project area to preclude through use by commercial trucks.

10. Soil and gravel shall be from local sources approved by the AO to better match existing conditions and reduce the potential of introducing vegetation within the project area.

11. If vegetation removal is to occur during breeding season (March 1 – August 31), pre-construction nest surveys to eliminate the possibility of impacts to nesting birds shall be performed.

12. Plant species desirable to the public (barrel cactus, etc.) shall be removed and given to the public when possible within the area of construction.

13. A Storm Water Pollution Prevention Plan shall be developed for the proposed improvements to obtain National Pollutant Discharge Elimination System permit coverage. This plan shall include measures that serve as best management practices (BMP), including permanent measures, to reduce the potential for impacts to water quality. The BMPs for erosion and sediment control shall focus primarily on protecting receiving waters and water sources in areas of construction activity. The BMPs shall include, but are not limited to, silt fencing, inlet protection, and riprap outlet protection at culverts.

14. Reclamation

The Holder shall reclaim disturbed areas in accordance with the following, which establishes guidelines to be used during reclamation, when necessary throughout lands administered by the Las Cruces Field Office of the Bureau of Land Management (BLM).

Water Diversions

Water diversions shall be constructed as needed to control surface water runoff and soil erosion. Water diversions typically shall consist of waterbars constructed at the following spacing intervals:

<u>Percent slope</u>	<u>Spacing Interval</u>
Less than 1%	400'
1-5%	300'
5-15%	200'
15-25%	100'
More than 25%	50'

If diversion of water from the ROW will result in accelerated erosion in undisturbed areas, water bars shall not be constructed. Furthermore, if the ROW has a side slope approximately one-third or more of the slope along the length of the ROW, water bars shall not be constructed. Exceptions to spacing intervals shall be upon approval of the AO.

Contouring

The holder shall recontour disturbed areas, or designated sections of the ROW by grading to restore the sites to approximately the original contour of the ground as determined by the AO.

When sufficiently abundant, overburden and topsoil shall be stockpiled during construction for use during reclamation. Prior to seeding the topsoil shall be re-deposited (shaped and contoured) to resemble surrounding topography. Ripping or plowing compacted soils may be necessary in some areas and shall be addressed on a case by case basis.

The holder shall uniformly spread topsoil over all unoccupied disturbed areas (outside the ditch line, fence line, and work area). Spreading shall not be done while the ground or topsoil is frozen or wet.

The holder shall restore drainages, to the greatest extent possible, to the original bank concentration, stream-bottom width and channel gradient. Loose soils, rill, and culverts shall be removed from the drainage channels as directed by the AO.

Seeding

Any seed used on public lands shall not contain noxious weed seed and must meet certified seed quality. The seed procured for use on public lands shall meet the Federal Seed Act criteria. All seed to be applied on public lands must have a valid seed test, within 1 year of the acceptance date, from a seed analysis lab by a registered seed analyst (Association of Official Seed Analysts). The seed lab results shall show no more than 0.5 percent by weight of other weed seeds. The seed lot shall contain no noxious, prohibited, or restricted weed seeds according to state seed laws in the respective state(s). Copies of the seed lab test results, including purity and germination (viability) rate, must be forwarded to the appropriate BLM office prior to seed application. If the seed does not meet the BLM and State/Federal standards for noxious weed seed content or other crop seed allowances, it shall not be applied to public lands.

Seeding shall be conducted between the months of June 15 - July 15, to coincide with onset of rainy season and well after spring winds have subsided. This gives best chances of successful seeding/vegetation establishment. Planting can be done as early as May if conditions are optimal.

At that time, soil in these areas to be reclaimed should be treated to reduce compaction. Even very minimal use of roads greatly increases compaction. Soil structure compaction reduces available soil, air and water; this reduction kills soil organisms, and decreases success rate of re-vegetation.

Seed-bed preparation needs to be performed to provide a hospitable environment for germinating seed by breaking up impermeable soil layers that have formed and increasing void spaces for air and water. Ground shall be roughed-up prior to planting, by raking, harrowing or other methods.

Seed shall be broadcast with a "cyclone" hand seeder or similar broadcast seeder to facilitate an even spread of seed.

After seed is broadcast, ground shall be raked or dragged, to help bury it and improve soil contact and provide texture. Next, mulch should be placed to prevent loss of moisture and seed to wind.

Mulching is **required** on **all** seeding projects. Mulch shall be free of weeds and weed seed. Mulching shall be done using one of these following methods:

- a. weed-free straw (2 tons/Ac)
- b. wood residues (sawdust, wood chips, bark (2 tons/Ac)
- c. hydro mulching (1,500 lb/Ac)
- d. composted manure (5 tons/Ac)
- e. excelsior blanket
- f. straw jute
- g. rock mulch

Straw mulch is not recommended if livestock potentially have access to the area. Livestock should be temporarily fenced-out of any seeded area, as they will otherwise greatly reduce possibility of successful re-vegetation. Probability of successful seeding will be considerably increased if fencing remains until

reclamation is stable, and plants have grown well enough to withstand grazing. Stabilization would occur after a minimum of two full summer growing seasons after planting.

Mulch shall be applied on the surface within one day following seeding. Mulch must be free of noxious weeds and other diseased plant residues. Rotten or molded hay is not acceptable as mulch. A soil-stabilant tack shall be applied as an overspray after seed and mulch are in place. This tack should be at a sufficient rate so as to prevent mulch from moving due to wind.

Here is the link to certified weed-free mulch providers:

<http://aces.nmsu.edu/ces/seedcert/certified-weed-free-fora.html>

If cattle or other livestock have access to this area, straw mulch is not recommended. If livestock can be kept off all seeded areas during the growing season those first two summers after seeding, successful seeding probability can be greatly increased.

The seeding rate is given for Pure Live Seed (**PLS**).
Percent purity X percent germination = Pure Live Seed.

Species	LBS/AC PLS
Black grama (<i>Bouteloua eriopoda</i>)	2.0
Sideoats grama (<i>Bouteloua curtipendula</i>)	3.0
Sand dropseed (<i>Sporobolus cryptandrus</i>)	2.0
Four-wing saltbush (<i>Atriplex canescens</i>)	4.0
Desert Globemallow (<i>Sphaeralcea ambigua</i>)	0.50
Desert marigold (<i>Baileya multiradiata</i>)	0.50
Total	12.00

If you have difficulty in obtaining any of these species or substitutes are necessary due to lack of seed availability, please contact Joseph Navarro, Environmental Protection Specialist at (575) 525-4363. These recommendations all can be consulted upon between the operator and BLM to arrive at a mutual strategy for successful reclamation.

BLM STANDARD STIPULATIONS
NMNM 066392
JULY 2015

1. Right-of-way (ROW) Construction Administration

The Holder shall contact the AO (AO) at least seven days prior to the anticipated start of construction and/or any surface disturbing activities. The AO shall require and schedule a preconstruction conference with the Holder prior to the Holder's commencing construction and/or surface disturbing activities on the ROW. The Holder and/or his representative shall attend this conference. The Holder's contractor, or agents involved with construction and/or any surface disturbing activities associated with the ROW, shall also attend this conference to review the stipulations of the grant including the plan(s) of development.

The Holder shall submit a plan of development (POD) that describes in detail the construction, operation, maintenance, and termination of the ROW and its associated improvements and/or facilities. The plan shall include drawings in sufficient detail to enable a complete evaluation of all proposed structures, facilities, and landscaping to ensure compliance with the requirements of the grant and to ensure visual compatibility with the site. These drawings shall be the construction documents and must show dimensions, materials, finishes, etc. to demonstrate compliance with all requirements. The plans shall be reviewed and, if appropriate, modified and approved by the AO. An approved plan of development shall be made a part of the ROW grant.

The Holder shall construct, operate, and maintain the facilities, improvements, and structures within this ROW in strict conformity with these stipulations (and POD) and the terms and conditions of the ROW grant. Any relocation, additional construction, or use that is not in accord with the approved stipulations, shall not be initiated without the prior written approval of the AO. A copy of the complete ROW grant, including all stipulations, shall be made available on the ROW area during construction, operation, and termination to the AO. Noncompliance with the above shall be grounds for an immediate temporary suspension of activities if it constitutes a threat to public health and safety or the environment.

The Holder shall perform the necessary transportation studies and recommend a road standard to meet the purpose of the road. This standard and the topography, soils, and geologic hazards of the lands crossed shall define the level of survey and design necessary. Accepted standards for road design, including the BLM Manual Section may be used.

The Holder shall obtain the services of a licensed professional engineer to locate, survey, design, and construct the proposed road as directed by the AO. The road design shall be based on the (1) width, (2) maximum grade, and (3) design speed of the road.

The Holder shall submit standard or typical cross sections of the road to be constructed, maintained, or reconstructed as directed by the AO. The cross sections should include, but are not limited to, the proposed road width, ditch dimensions, cut and fill slopes, and typical culvert installation.

All design, material, and construction, operation, maintenance, and termination practices shall be in accordance with safe and proven engineering practices.

The Holder shall designate a representative who shall have the authority to act upon and to implement instructions from the AO. The Holder's representative shall be available for communication with the AO within a reasonable time when construction or other surface disturbing activities are underway. The Holder shall file a proof of construction within 90 days after completion of construction.

2. Work Limits

The Holder shall conduct all activities associated with new construction, operation, and termination of the ROW within the authorized limits of the ROW as identified in the POD.

Holder shall remove only the minimum amount of vegetation necessary for the construction of structures and facilities. Topsoil shall be conserved during excavation and reused as cover on disturbed areas to facilitate regrowth of vegetation.

Holder shall limit excavation to the areas of construction. No borrow areas for fill material shall be permitted on the site. All off-site borrow areas must be approved in writing by the AO in advance of excavation. All waste material resulting from construction or use of the site by Holder shall be removed from the site. All waste disposal sites on public land must be approved in writing by the AO in advance of use.

Materials encountered on the project and needed for select borrow, surfacing, riprap, or other special needs shall be conserved.

The Holder shall place slope stakes, culvert location and grade stakes, and other construction control stakes as deemed necessary by the AO to ensure construction in accordance with the plan of development. If stakes are disturbed, they shall be replaced before proceeding with construction. Stakes shall remain in place until removal is approved by the AO.

The Holder shall survey and clearly mark the centerline and/or exterior limits of the ROW, as determined by the AO. Markings shall remain in place until removal is approved by the AO.

Construction holes left open overnight shall be covered. Covers shall be secured in place and shall be strong enough to prevent livestock or wildlife from falling through and into a hole.

3. Drainage Structures

The Holder shall furnish and install culverts of the gauge, materials, diameter(s), and length(s) indicated and approved by the AO. Culverts shall be free of corrosion, dents, or other deleterious conditions. Culverts shall be placed on channel bottoms on firm, uniform beds which have been shaped to accept them and aligned to minimize erosion. Backfill shall be thoroughly compacted. No equipment shall be routed over a culvert until backfill depth is adequate to protect the culverts.

As directed by the AO, the Holder shall submit a complete culvert list to reflect the drainage plan for the road. The list shall include, but not be limited to, size(s), lengths, and locations of the culverts.

The Holder shall construct low-water crossings in a manner that shall prevent any blockage or restriction of the existing channel. Material removed shall be stockpiled for use in rehabilitation of the crossings.

The Holder shall design and construct adequate water-control structures in each drainage crossing to prevent excessive erosion along the pipeline and protect the pipeline from the natural erosion process within the drainage.

4. Access to and Along the ROW During New Construction

Construction-related traffic shall be restricted to routes approved by the AO. New access roads or cross-country vehicle travel shall not be permitted unless prior written approval is given by the AO. Authorized

roads used by the Holder shall be rehabilitated or maintained when new constructions activities are complete as approved by the AO.

The Holder shall permit free and unrestricted public access to and upon the ROW for all lawful purposes except for those specific areas designated as restricted by the AO to protect the public, wildlife, livestock, or facilities constructed within the ROW.

The Holder shall provide for the safety of the public entering the ROW. This includes, but is not limited to, barricades for open trenches, flagmen/women with communication systems for single-lane roads without visible turnouts, and attached gates for blasting operations.

Construction excavations, holes and trenches in roadways or in areas where pedestrians or vehicular traffic is present shall be flagged, plated or appropriately marked as required.

5. Maintenance of ROW

No construction or routine maintenance activities shall be performed during periods when the soil is too wet to adequately support construction equipment. If such equipment creates ruts in excess of three inches deep, the soil shall be deemed too wet to adequately support construction equipment.

Holder shall maintain the ROW in a safe, usable condition, as directed by the AO. A regular maintenance program shall include, but is not limited to, blading, ditching, culvert installation and surfacing.

6. Cultural and Paleontological Resources

Specific sites as identified by the AO (e.g., archaeological sites, areas with threatened and endangered species, or fragile watersheds) where construction equipment and vehicles shall not be allowed shall be clearly marked onsite by the Holder before any construction or surface disturbing activities begin. The Holder shall be responsible for assuring that construction personnel are well trained to recognize these markers and understand the equipment movement restrictions involved.

Any cultural and/or paleontological resource (historic or prehistoric site or object) discovered by the Holder, or any person working on his behalf, on public or Federal land shall be immediately reported to the AO. Holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the AO. An evaluation of the discovery shall be made by the AO to determine appropriate actions to prevent the loss of significant cultural or scientific values. The Holder shall be responsible for the cost of evaluation and any decision as to proper mitigation measures shall be made by the AO after consulting with the Holder.

7. Waste Disposal

The ROW site shall be maintained in a sanitary condition at all times; waste materials at those sites shall be disposed of promptly at an appropriate waste disposal site. "Waste" means all discarded matter including, but not limited to, human waste, trash, garbage, refuse, oil drums, petroleum products, ashes, and equipment.

8. Air and Dust Control

The Holder shall meet Federal, State, and local emission standards for air quality. The Holder shall furnish and apply water or other means satisfactory to the AO dust control.

9. Fences and Cattle Guards

The Holder shall minimize disturbance to existing fences and other improvements on public lands. The Holder is required to promptly repair impacted improvements to at least their former state. The Holder shall contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting of the fence. No permanent gates shall be allowed unless approved by the AO. Fences, gates, and brace panels shall be reconstructed to appropriate Bureau standards and/or specifications as determined by the AO.

When construction activity in connection with the ROW breaks or destroys a natural barrier used for livestock control, the gap, thus opened, shall be fenced to prevent the drift of livestock. The subject natural barrier shall be identified by the AO and fenced by the Holder as per instruction of the AO.

Fences and Cattle guards shall be constructed and installed as directed by the AO (drawings and specifications attached).

10. Signs

No signs or advertising devices shall be placed on the premises or on adjacent public land except those posted by or at the direction of the AO.

11. Industrial and Toxic Waste Disposal

The Holder(s) shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the Holder(s) shall comply with the Toxic Substances Control Act of 1976, as amended (15 U.S.C. 2601, *et seq.*) with regard to any toxic substances that are used, generated by or stored on the ROW or on facilities authorized under this ROW grant (See 40 CFR, Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.). Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation and Liability Act of 1980, Section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the AO concurrent with the filing of the reports to the involved Federal agency or State government.

The Holder of ROW No. NMNM 066392 agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, *et seq.* or the Resource Conservation and Recovery Act of 1976, 42 U.S.C. 6901 *et seq.*) on the ROW (unless the release or threatened release is wholly unrelated to the ROW Holder's activity on the ROW). This agreement applies without regard to whether a release is caused by the Holder, its agent, or unrelated third parties.

12. Indemnification

The United States, its officers and employees shall be held harmless from and indemnified against any damage, injury, or liability resulting from the construction, operation, or maintenance arising from the occupancy or use of public lands under this authorization.

13. Survey Monuments

The Holder shall protect all survey monuments found within the ROW. Survey monuments include, but are not limited to, General Land Office and Bureau of Land Management (BLM) Cadastral Survey

Corners, reference corners, witness points, U.S. Coastal and Geodetic benchmarks and triangulation stations, military control monuments, and recognizable civil (both public and private) survey monuments. In the event of obliteration or disturbance of any of the above, the Holder shall immediately report the incident, in writing, to the AO and the respective installing authority if known. Where General Land Office or BLM ROW monuments or references are obliterated during operations, the Holder shall secure the services of a registered land surveyor or a Bureau cadastral surveyor to restore the disturbed monuments and references using surveying procedures found in the Manual of Surveying Instructions for the Survey of the Public Lands in the United States, latest edition. The Holder shall record such survey in the appropriate county and send a copy to the AO. If the Bureau cadastral surveyors or other Federal surveyors are used to restore the disturbed survey monument, the Holder shall be responsible for the survey cost.

14. Civil Rights

The Holder of this ROW grant or the Holder's successor in interest shall comply with Title VI of the Civil Rights Act of 1964 (42 U.S.C. 2000d et seq.) and the regulations of the Secretary of the Interior issued pursuant thereto.

15. Corp of Engineers 404 Permits

The Holder shall comply with the construction practices and mitigating measures established by 33 CFR 323.4, which sets forth the parameters of the "nationwide permit" required by Section 404 of the Clean Water Act. If the proposed action exceeds the parameters of the nationwide permit, the Holder shall obtain an individual permit from the appropriate office of the Army Corps of Engineers and provide the AO with a copy of same. Failure to comply with this requirement shall be cause for suspension or termination of this ROW grant.

16. Other

In the event that the public land underlying the ROW encompassed in this grant, or a portion thereof, is conveyed out of Federal ownership and administration of the ROW or the land underlying the ROW is not being reserved to the United States in the patent/deed and/or the ROW is not within a ROW corridor being reserved to the United States in the patent/deed, the United States waives any right it has to administer the ROW, or portion thereof, within the conveyed land under Federal laws, statutes, and regulations, including the regulations at 43 CFR Part [2800][2880], including any rights to have the Holder apply to BLM for amendments, modifications, or assignments and for BLM to approve or recognize such amendments, modifications, or assignments. At the time of conveyance, the patentee/grantee, and their successors and assigns, shall succeed to the interests of the United States in all matters relating to the ROW, or portion thereof, within the conveyed land and shall be subject to applicable State and local government laws, statutes, and ordinances. After conveyance, any disputes concerning compliance with the use and the terms and conditions of the ROW shall be considered a civil matter between the patentee/grantee and the ROW Holder.

17. Termination

Six months prior to termination of the ROW, the Holder shall contact the AO to arrange a joint inspection of the ROW. This inspection shall be held to agree to an acceptable termination (and rehabilitation) plan. This plan shall include, but is not limit to, removal of facilities, drainage structures, or surface material, re-contouring, top-soiling, or seeding. The AO must approve the plan in writing prior to the Holder's commencement of any termination activities.

BLM SPECIAL STIPULATIONS
NMNM 066392
JULY 2015

1. Noxious Weed Control

The Holder shall be responsible for weed control on disturbed areas within the limits of the site. The Holder is responsible for consultation with the AO and/or local authorities for acceptable weed control methods, which include following EPA and BLM requirements and policy.

Power or high-pressure clean all equipment of all mud, dirt, and plants immediately prior to moving into the project area. Any gravel or fill to be used must come from weed-free sources. Inspect gravel pits and fill sources to identify weed-free sources. No soil spoil that could potentially contain noxious weed seeds shall be transported out of the area where it is created.

The project applicants shall be responsible for conducting a survey for and control of noxious weeds along the route proposed for construction. If during construction noxious weeds are identified that were not originally encountered during the survey, the project applicant shall avoid driving vehicles and equipment through or over the infested area. If avoidance measures cannot be taken within the area originally cleared, construction shall cease and the project inspector (PI) or the AO contacted.

Any use of herbicides/pesticides shall comply with the applicable Federal and State laws. Herbicides/pesticides shall be used only in accordance with their registered uses and within limitations imposed by the Secretary of the Interior. Prior to the use of pesticides, Holder shall obtain from the AO written approval of a plan showing the type and quantity of materials to be used, pest(s) to be controlled, method of application, location of storage and disposal of containers, and any other information deemed necessary by the AO. Emergency use of pesticides shall be approved in writing by the AO prior to use.

2. No activity shall occur within the Wilderness Study Area.

3. A certified paleontological monitor shall be present during ground disturbing activities within areas with the highest potential fossil yield classification (the Camp Rice Formation, of the Upper Santa Fe Group).

Prior to monitoring, a surface inspection shall be completed in the area of disturbance to identify the locations of any surface accumulations of bone or tooth fragments which could be indicative of fossil remains eroding onto the surface. Any fossil remains that meet the BLM significance criteria, per the certified paleontological monitor, shall be prepared to the point of curation, identified, and repositied in the New Mexico Museum of Natural history and Science.

4. Stationary sources shall be located as far from sensitive receptors as practicable.

5. Water pipeline conduit and water pipe shall be carried beneath Dripping Springs Road to repair any damage to the existing pipe during construction.

6. All cattle guards, fencing, and gates impacted by the project shall be replaced.

7. Holder shall comply with the Memorandum of Agreement entered between the SHPO, FHWA and BLM for mitigations to historic resources.

8. "Wildlife Xing" signs shall be placed in the project area.
9. "Share the Road" signage shall be placed in the project area.
10. "Local Traffic Only" signs shall be placed in the project area to preclude through use by commercial trucks.
11. Soil and gravel shall be from local sources approved by the AO to better match existing conditions and reduce the potential of introducing vegetation within the project area.
12. If vegetation removal is to occur during breeding season (March 1 – August 31), pre-construction nest surveys to eliminate the possibility of impacts to nesting birds shall be performed.
13. Plant species desirable to the public (barrel cactus, etc.) shall be removed and given to the public when possible within the area of construction.
14. A Storm Water Pollution Prevention Plan shall be developed for the proposed improvements to obtain National Pollutant Discharge Elimination System permit coverage. This plan shall include measures that serve as best management practices (BMP), including permanent measures, to reduce the potential for impacts to water quality. The BMPs for erosion and sediment control shall focus primarily on protecting receiving waters and water sources in areas of construction activity. The BMPs shall include, but are not limited to, silt fencing, inlet protection, and riprap outlet protection at culverts.

15. Reclamation

The Holder shall reclaim disturbed areas in accordance with the following, which establishes guidelines to be used during reclamation, when necessary throughout lands administered by the Las Cruces Field Office of the Bureau of Land Management (BLM).

Water Diversions

Water diversions shall be constructed as needed to control surface water runoff and soil erosion. Water diversions typically shall consist of waterbars constructed at the following spacing intervals:

<u>Percent slope</u>	<u>Spacing Interval</u>
Less than 1%	400'
1-5%	300'
5-15%	200'
15-25%	100'
More than 25%	50'

If diversion of water from the ROW will result in accelerated erosion in undisturbed areas, water bars shall not be constructed. Furthermore, if the ROW has a side slope approximately one-third or more of the slope along the length of the ROW, water bars shall not be constructed. Exceptions to spacing intervals shall be upon approval of the AO.

Contouring

The holder shall recontour disturbed areas or designated sections of the ROW by grading to restore the sites to approximately the original contour of the ground as determined by the AO.

When sufficiently abundant, overburden and topsoil shall be stockpiled during construction for use during reclamation. Prior to seeding the topsoil shall be re-deposited (shaped and contoured) to resemble surrounding topography. Ripping or plowing compacted soils may be necessary in some areas and shall be addressed on a case by case basis.

The holder shall uniformly spread topsoil over all unoccupied disturbed areas (outside the ditch line, fence line, and work area). Spreading shall not be done while the ground or topsoil is frozen or wet.

The holder shall restore drainages, to the greatest extent possible, to the original bank concentration, stream-bottom width and channel gradient. Loose soils, rill, and culverts shall be removed from the drainage channels as directed by the AO.

Seeding

Any seed used on public lands shall not contain noxious weed seed and must meet certified seed quality. The seed procured for use on public lands shall meet the Federal Seed Act criteria. All seed to be applied on public lands must have a valid seed test, within 1 year of the acceptance date, from a seed analysis lab by a registered seed analyst (Association of Official Seed Analysts). The seed lab results shall show no more than 0.5 percent by weight of other weed seeds. The seed lot shall contain no noxious, prohibited, or restricted weed seeds according to state seed laws in the respective state(s). Copies of the seed lab test results, including purity and germination (viability) rate, must be forwarded to the appropriate BLM office prior to seed application. If the seed does not meet the BLM and State/Federal standards for noxious weed seed content or other crop seed allowances, it shall not be applied to public lands.

Seeding shall be conducted between the months of June 15 - July 15, to coincide with onset of rainy season and well after spring winds have subsided. This gives best chances of successful seeding/vegetation establishment. Planting can be done as early as May if conditions are optimal.

At that time, soil in these areas to be reclaimed should be treated to reduce compaction. Even very minimal use of roads greatly increases compaction. Soil structure compaction reduces available soil, air and water; this reduction kills soil organisms, and decreases success rate of re-vegetation.

Seed-bed preparation needs to be performed to provide a hospitable environment for germinating seed by breaking up impermeable soil layers that have formed and increasing void spaces for air and water. Ground shall be roughed-up prior to planting, by raking, harrowing or other methods.

Seed shall be broadcast with a "cyclone" hand seeder or similar broadcast seeder to facilitate an even spread of seed.

After seed is broadcast, ground shall be raked or dragged, to help bury it and improve soil contact and provide texture. Next, mulch should be placed to prevent loss of moisture and seed to wind.

Mulching is **required** on **all** seeding projects. Mulch shall be free of weeds and weed seed. Mulching shall be done using one of these following methods:

- a. weed-free straw (2 tons/Ac)
- b. wood residues (sawdust, wood chips, bark (2 tons/Ac)
- c. hydro mulching (1,500 lb/Ac)
- d. composted manure (5 tons/Ac)
- e. excelsior blanket
- f. straw jute
- g. rock mulch

Straw mulch is not recommended if livestock potentially have access to the area. Livestock should be temporarily fenced-out of any seeded area, as they will otherwise greatly reduce possibility of successful re-vegetation. Probability of successful seeding will be considerably increased if fencing remains until reclamation is stable, and plants have grown well enough to withstand grazing. Stabilization would occur after a minimum of two full summer growing seasons after planting.

Mulch shall be applied on the surface within one day following seeding. Mulch must be free of noxious weeds and other diseased plant residues. Rotten or molded hay is not acceptable as mulch. A soil-stabilant tack shall be applied as an overspray after seed and mulch are in place. This tack should be at a sufficient rate so as to prevent mulch from moving due to wind.

Here is the link to certified weed-free mulch providers:

<http://aces.nmsu.edu/ces/seedcert/certified-weed-free-fora.html>

If cattle or other livestock have access to this area, straw mulch is not recommended. If livestock can be kept off all seeded areas during the growing season those first two summers after seeding, successful seeding probability can be greatly increased.

The seeding rate is given for Pure Live Seed (**PLS**).
 Percent purity X percent germination = Pure Live Seed.

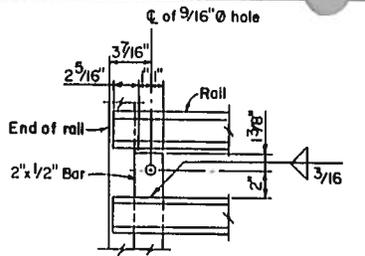
<u>Species</u>	<u>LBS/AC PLS</u>
Black grama (<i>Bouteloua eriopoda</i>)	2.0
Sideoats grama (<i>Bouteloua curtipendula</i>)	3.0
Sand dropseed (<i>Sporobolus cryptandrus</i>)	2.0
Four-wing saltbush (<i>Atriplex canescens</i>)	4.0
Desert Globemallow (<i>Sphaeralcea ambigua</i>)	0.50
Desert marigold (<i>Baileya multiradiata</i>)	0.50
Total	12.00

If you have difficulty in obtaining any of these species or substitutes are necessary due to lack of seed availability, please contact Joseph Navarro, Environmental Protection Specialist at (575) 525-4363. These recommendations all can be consulted upon between the operator and BLM to arrive at a mutual strategy for successful reclamation.

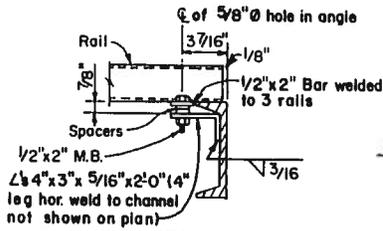
BLM FENCE AND CATTLE GUARD SPECIFICATIONS

BLM Type 'A' Fence Specifications

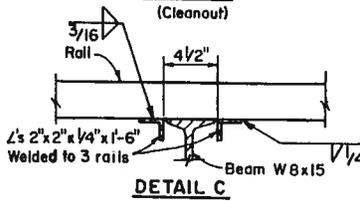
The proposed fence shall consist of BLM Type "A" design fence with four strands; the upper three strands shall be barbed, while the bottom strand shall be smooth wire. Wire spacing shall be 16" from the ground to the first wire, 6" from the bottom wire, 8" from the second wire, and 12" from the third wire (42" from ground level). Braces and corners shall be constructed of wood or angle iron. Line post spacing shall be approximately 16.5'. Routes shall be surveyed for noxious weeds, areas with established noxious weeds shall be completely avoided or at least till measures of control could be taken. All equipment used in the construction of the fences shall be washed with a high pressure washer to remove any possible noxious weed seed from the equipment. Routes of disturbance shall be monitored in the future to determine if noxious or invasive weeds have spread.



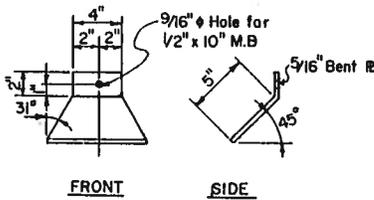
DETAIL A
(Both ends of 3 rail cleanout similar)



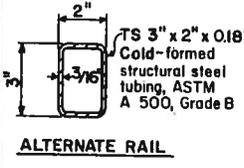
DETAIL B
(Cleanout)



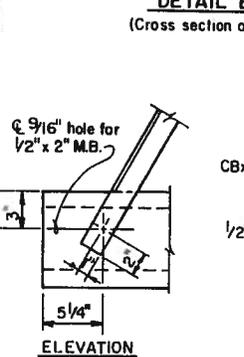
DETAIL C



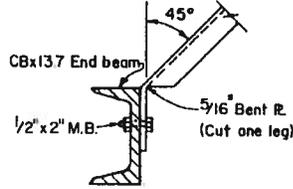
DETAIL D



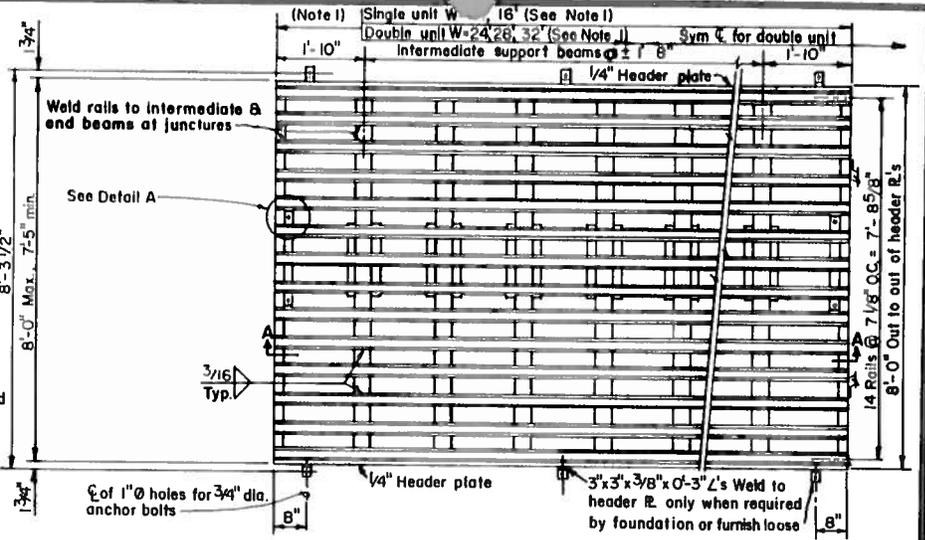
ALTERNATE RAIL



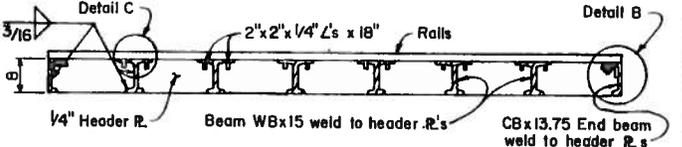
DETAIL E
(Cross section of rail)



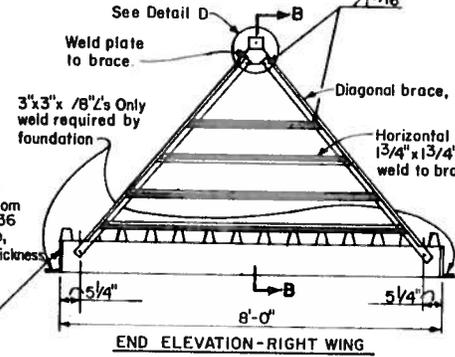
DETAIL F



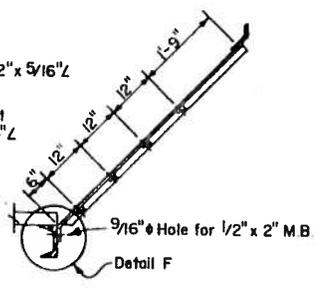
PLAN



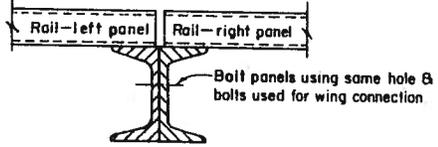
SECTION A-A
(3 rail cleanout)



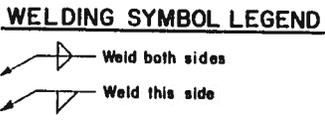
DETACHABLE WING



SECTION B-B



CONNECTION FOR MULTIPLE INSTALLATION

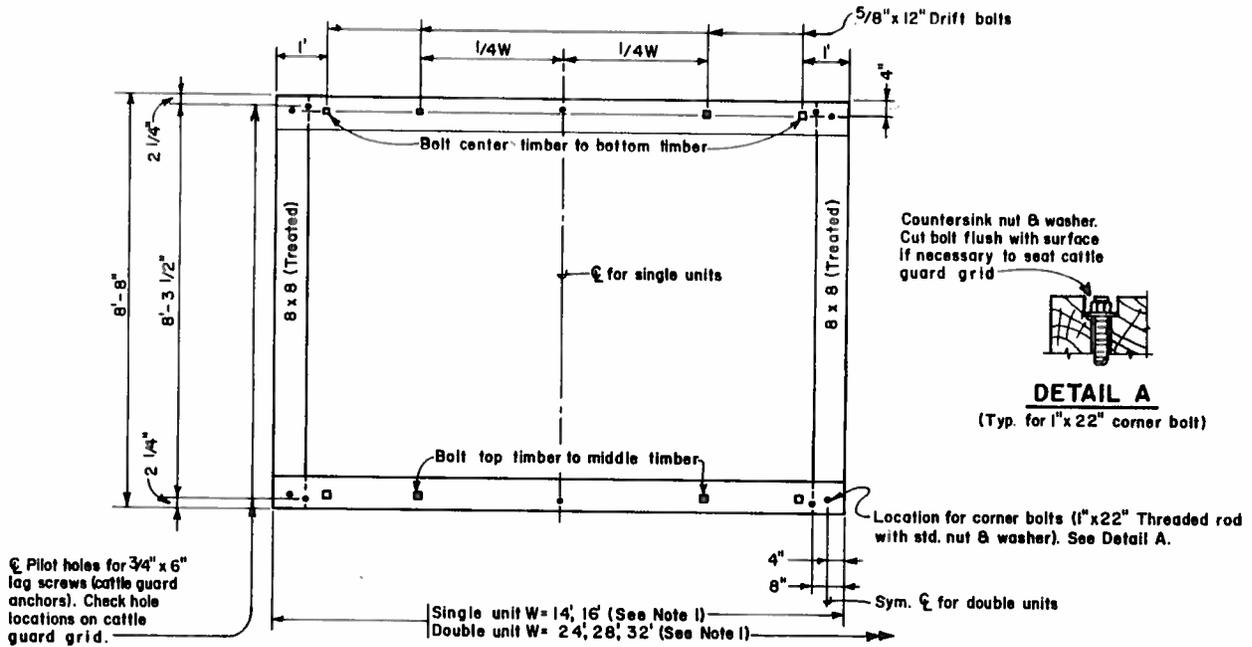


NOTES:

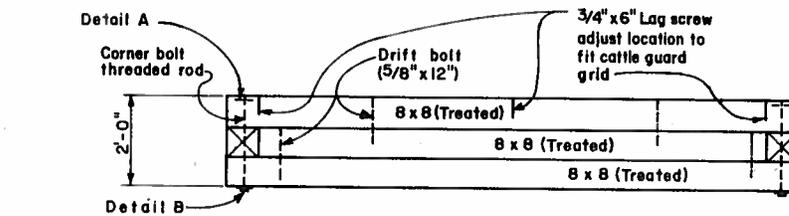
1. See Bid Schedule for width (W).
2. Bolts to be supplied with standard nuts & washers.
3. Furnish grid with cleanout only when specified in the Bid Schedule.
4. Provide 4-7'10" x 2" x 1/4" torque bars, equally spaced, welded by 3/16" fillet welds to top of rails when alternate rectangular structural tube rails are provided.
5. Steel for components shall be ASTM A 36, unless indicated otherwise on drawing.
6. Design loading of grid shall conform to AASHTO H-20

ALWAYS THINK SAFETY

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT	
DIVISION OF ENGINEERING SYSTEMS DENVER SERVICE CENTER	
STEEL CATTLE GUARD GRID AND WINGS	
DESIGNED BY OTHERS	
REVIEWED <i>[Signature]</i>	
APPROVED <i>[Signature]</i>	
DRAWN P.W.TWIST	SCALE NONE
DATE APRIL 5, 1984	SHEET OF
DRAWING NO. 02881-4	

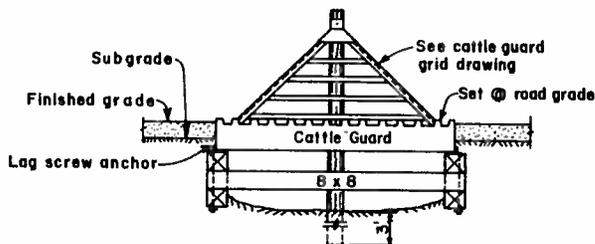
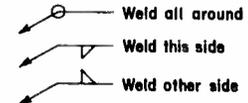


PLAN

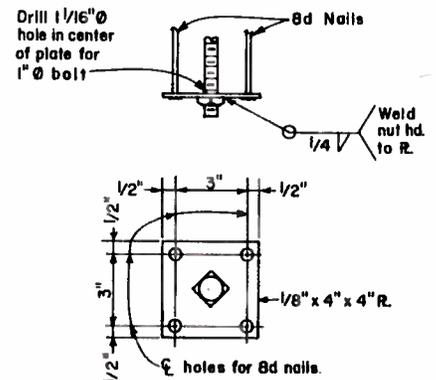


SIDE ELEVATION

WELDING SYMBOL LEGEND



SECTION AT ROAD ⊕
(With grid & wings in place)



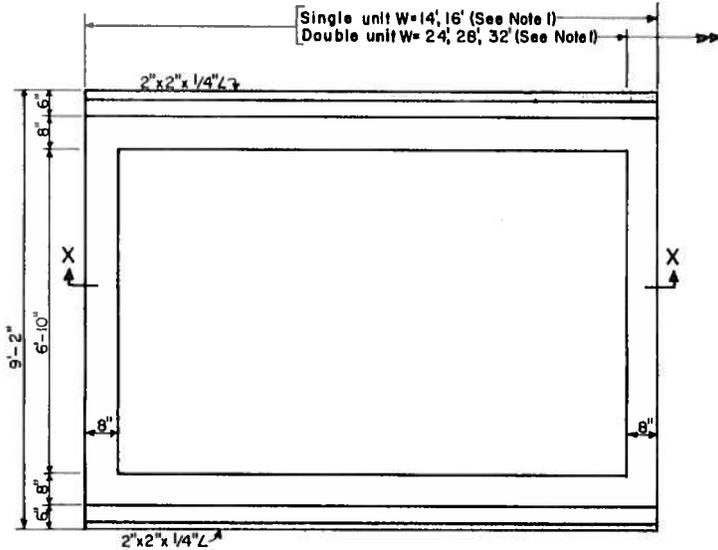
DETAIL B

(Typ. for 1" x 22" corner bolt)

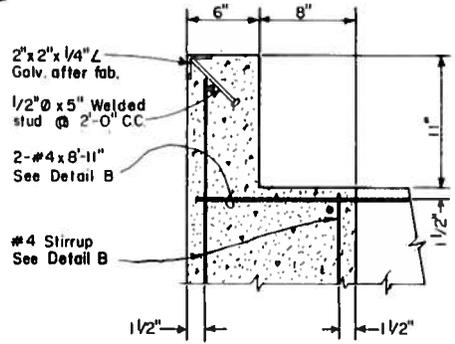
NOTES:

1. See Bid Schedule for width (W).
2. Cattle guard anchor angles with 3/4" x 6" lag screws with standard washer to be furnished with each single grid.
3. On earth-surfaced roads, set top of cattle guard eight inches above subgrade unless plans or stakes indicate another elevation. Taper fill back from cattle guard approx. 50 ft. in both directions.
4. Dimensions for lumber are nominal unless otherwise noted.

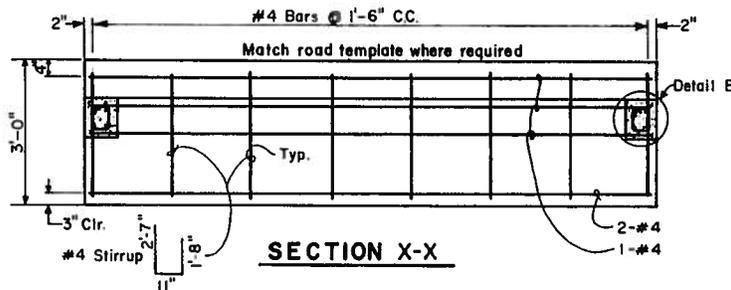
UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT	
DIVISION OF ENGINEERING SYSTEMS	DENVER SERVICE CENTER
CATTLE GUARD FOUNDATION (Timber)	
DESIGNED BY OTHERS	
REVIEWED <i>[Signature]</i>	
APPROVED <i>[Signature]</i>	
DRAWN J.D.Sedillo	SCALE NONE
DATE APRIL 4, 1984	SHEET OF
DRAWING NO. 02881-3	



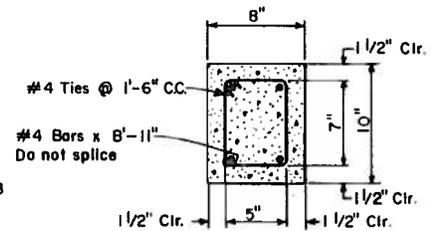
PLAN



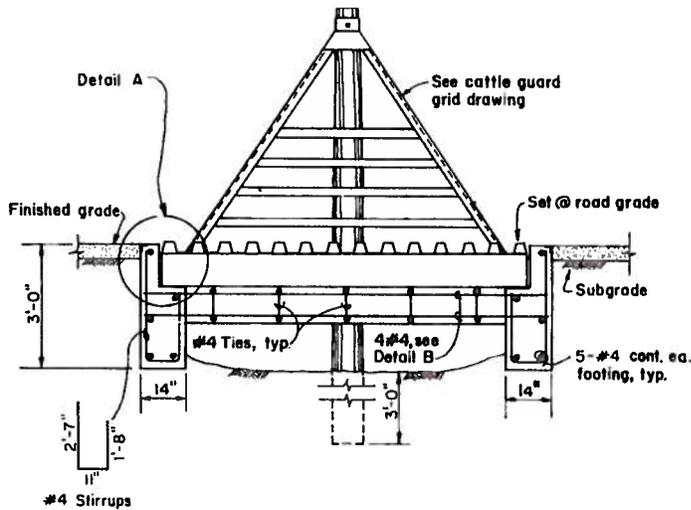
DETAIL A



SECTION X-X



DETAIL B



SECTION AT ROAD CL
(With grid and wings in place)

NOTES:

1. See Bid Schedule for width (W).
2. Cattle guard grid dimensions shall be verified prior to construction.
3. On earth-surfaced roads, set top of cattle guard foundation eight inches above subgrade unless plans or stakes indicate another elevation. Taper fill back from cattle guard approx. 50 ft. in both directions.
4. #4 Reinforcement may be spliced with 24" lap unless prohibited.

ESTIMATED QUANTITIES FOR REINFORCED CONCRETE FOUNDATION

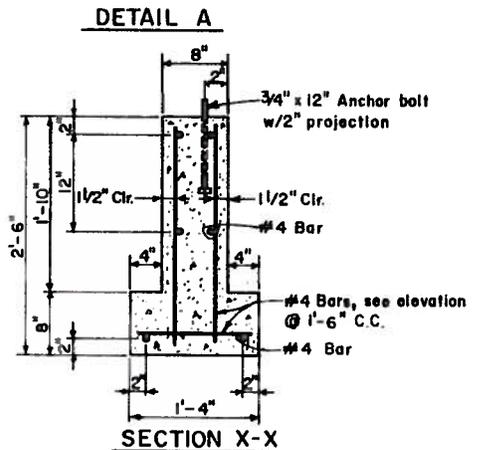
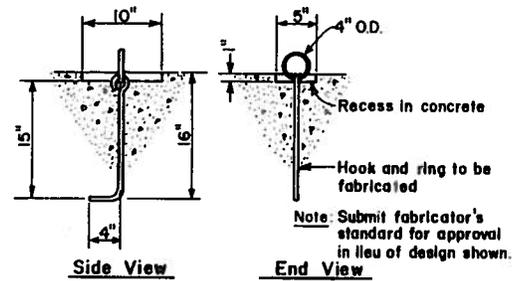
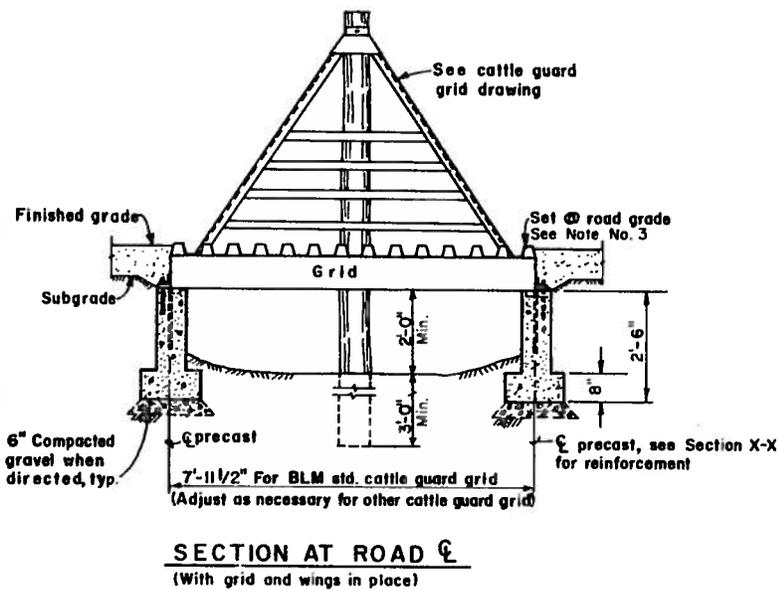
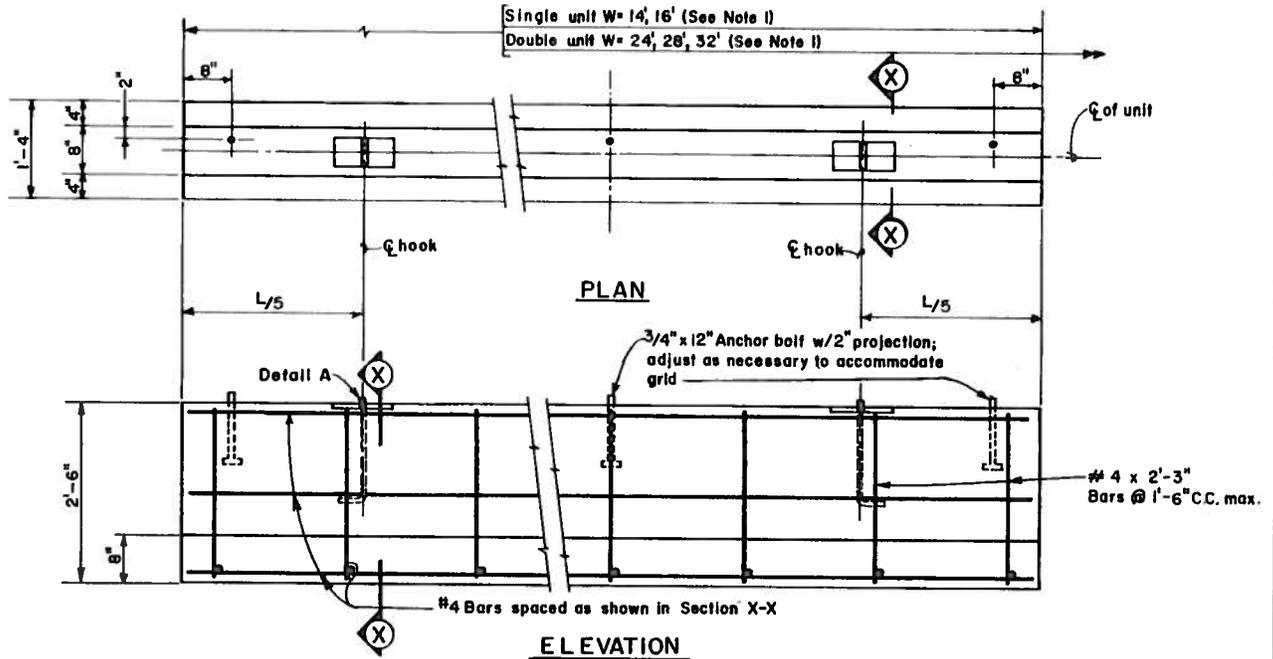
DESCRIPTION	QUANTITIES				
	14'	16'	24'	28'	32'
UNIT WIDTHS					
CONCRETE	3.3cy	3.7cy	5.4cy	6.3cy	7.1cy
#4 REINFORCING STEEL	324 L.F.	355 L.F.	486 L.F.	547 L.F.	618 L.F.
L 2"x2"x 1/4"	28 L.F.	32 L.F.	48 L.F.	56 L.F.	64 L.F.

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
DIVISION OF ENGINEERING SYSTEMS DENVER SERVICE CENTER

CATTLE GUARD FOUNDATION
(Poured-in-Place Concrete)

DESIGNED BY OTHERS
REVIEWED *[Signature]*
APPROVED *[Signature]*

DRAWN J.D.Sedillo SCALE NONE
DATE APRIL 4, 1984 SHEET OF
DRAWING NO. 02881-2



NOTES:

1. See Bid Schedule for width (W).
2. Standard nuts & washers shall be furnished with each foundation unit including anchor angles. Weld or bolt anchor angles to cattle guard.
3. On earth-surfaced roads, set top of cattle guard eight inches above subgrade unless plans or stakes indicate another elevation. Taper fill back from cattle guard approx. 50' in both directions.
4. #4 Reinforcement may be spliced with 24" lap unless prohibited.

ESTIMATED QUANTITIES FOR FOUNDATION				
DESCRIPTION	QUANTITIES			
	14'	16'	24'	28'
CONCRETE	22 CY	25 CY	36 CY	44 CY
#4 REINFORCING STEEL	276 L.F.	311 L.F.	471 L.F.	543 L.F.

ALWAYS THINK SAFETY

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
DIVISION OF ENGINEERING SYSTEMS DENVER SERVICE CENTER

CATTLE GUARD FOUNDATION
(Precast Concrete)

DESIGNED BY OTHERS

REVIEWED *[Signature]*
APPROVED *[Signature]*

DRAWN J.D. Sedillo SCALE NONE

DATE APRIL 6, 1984 SHEET OF

DRAWING NO. 02881-1

MEMORANDUM OF AGREEMENT

AMONG

**THE FEDERAL HIGHWAY ADMINISTRATION
CENTRAL FEDERAL LANDS HIGHWAY DIVISION**

AND

**THE DEPARTMENT OF INTERIOR
BUREAU OF LAND MANAGEMENT LAS CRUCES DISTRICT OFFICE**

AND

THE NEW MEXICO STATE HISTORIC PRESERVATION OFFICER

REGARDING

**THE DRIPPING SPRINGS ROAD AND BAYLOR CANYON ROAD IMPROVEMENT
PROJECT, DONA ANA COUNTY, NEW MEXICO**

WHEREAS, the Federal Highway Administration, Central Federal Lands Highway Division (FHWA), in cooperation with the Bureau of Land Management Las Cruces District Office (BLM), are proposing roadway improvements on 2.4 miles of Baylor Canyon Road and 2.5 miles of Dripping Springs Road (undertaking); and

WHEREAS, the undertaking will increase federal land access and increase roadway user safety, and the roads will be improved (paved) to include a 32-foot section, which includes two 11-foot lanes and two 5-foot shoulders along with the installation of low water crossings, culverts and minor realignments of the roads among other improvements as described in Attachment A; and

WHEREAS, FHWA has defined the undertaking's area of potential effects (APE) as the construction zone within the right of way and any temporary easements required to build the project, typically 100 feet wide and parallel to the centerline of the proposed roadway; and

WHEREAS, FHWA has determined that the undertaking will have an adverse effect on HCPI 36654, a property eligible for inclusion in the National Register of Historic Places, and FHWA has consulted with the New Mexico State Historic Preservation Officer (SHPO) pursuant to 36 CFR Part 800, regulations implementing Section 106 of the National Historic Preservation Act; and

WHEREAS, FHWA has consulted with the Comanche Indian Tribe, Fort Sill Apache Tribe, Isleta Pueblo, Kiowa Tribe, Mescalero Apache Tribe, Navajo Nation, White Mountain Apache Tribe, Ysleta del Sur Pueblo, Hopi, Tesuque Pueblo, and Acoma Pueblo (Tribes) regarding the effects of the undertaking on these historic properties pursuant to 36 CFR 800.3(f)(2) and 36 CFR 800.4(a)(4), and has invited the Tribes to participate in the resolution of adverse effects; and

WHEREAS, FHWA received responses from two of the Tribes with the Hopi Tribe deferring to SHPO and Ysleta del Sur Pueblo stating that “While we do not have any comments on the proposed undertaking and believe that this project will not adversely affect traditional, religious or culturally significant sites of our Pueblo and have no opposition to it; we would like to request consultation should any human remains or artifacts unearthed during this project be determined to fall under Native American Graves Protection and Repatriation Act (NAGPRA) guidelines;” and

WHEREAS, FHWA has consulted with the BLM regarding the effects of the undertaking on the historic properties pursuant to 36 CFR 800.3(f)(2) and 36 CFR 800.4(a)(4), and has invited the BLM to be a signatory to this MOA; and

WHEREAS, FHWA has invited the Advisory Council on Historic Preservation (ACHP) to participate in the resolution of adverse effects and development of the MOA on April 21, 2015; and ACHP responded by telephone on June 8, 2015 to say they decline to participate and that a letter will follow; and

WHEREAS, FHWA has invited twelve tribes to participate in the resolution of adverse effects and development of the MOA and no tribes requested participation; and

NOW THEREFORE, FHWA, BLM, and the SHPO agree that the undertaking shall be administered in accordance with the following stipulations in order to take into account the effect of the undertaking on historic properties and to satisfy FHWA’s responsibilities under Section 106 of the National Historic Preservation Act.

STIPULATIONS

To the extent of its legal authority and in coordination with the SHPO and BLM, the FHWA will ensure that the adverse effects of the undertaking are resolved by implementing the following measures and procedures:

I. MITIGATION MEASURES

A. FHWA will ensure that the redesigned road alignment at the intersection of

Dripping Springs Road and Baylor Canyon Road is constructed as illustrated in Figure 1 of Attachment B, thereby avoiding impacts to two historic features in this area. Baylor Canyon Road will be constructed according to the designed road alignment to minimize the number of check dams affected by construction. The preliminary plans (70%) are illustrated on Plan Sheets C11 to C20 in Attachment B. Minor changes to horizontal or vertical alignment of the roads may be made in the process of finalizing the project plans. If additional impacts to the HCPI 36654 are identified due to changes to the design, FHWA will reopen consultation with the SHPO. Additionally, construction equipment will not be allowed to enter or park outside of the construction limits on HCPI 36654, and provisions for marking or fencing the features within the right of way will be made to prevent damage. A pre-construction meeting will be held to review construction boundaries and guidelines to avoid any impacts not already identified in the cultural report to the rock features associated with HCPI 36654.

- B. FHWA will prepare or cause to be prepared a concise historic context for HCPI 36654 that will be based on historic research sufficient to understand the significance of the property and its history (possibly including important area events, the CCC and New Deal in the Las Cruces area, flood and water control history, and agricultural history). The research will be consistent with the *Secretary of Interior's Standards and Guidelines for Historical Documentation*. The historic context will be used by the FHWA, in consultation with SHPO and BLM, to develop the text for the interpretative signage. FHWA will provide a copy of the draft historic context to the SHPO and BLM for review and comment. All comments will be provided within thirty (30) calendar days of receipt. FHWA will ensure that the context is revised, if necessary, to address comments received. FHWA will provide a final copy of the historic context to the BLM and SHPO.
- C. FHWA in consultation with the BLM and SHPO will ensure that interpretive signage is designed and installed at the two pullouts as part of the project. The signage will discuss HCPI 36654 and related history as revealed in the historic context. The content and look of the signs will be developed by the FHWA in consultation with BLM and the SHPO. The FHWA will provide the BLM and SHPO with descriptions of the signs and draft copies of the text. All comments will be provided within thirty (30) calendar days or less and the FHWA will take comments into consideration in the final design.
- D. Any party to this MOA may propose to amend the mitigation measures. The party will write to the other signatories explaining the proposed changes. Comments will be provided in thirty (30) calendar days or less. The amended mitigation measures

will go into effect when agreed to in writing by all parties. Such amendment will not require amendment of the MOA.

II. DISCOVERY SITUATIONS

- A. If previously unknown cultural resources are exposed by construction, work will stop in the immediate vicinity and the cultural resource will be protected. The contractor will notify FHWA, BLM and SHPO within 24 hours of the discovery. FHWA will ensure that the property is recorded in conformance with state standards and the current version of the BLM Handbook H-8100-1 (*Procedures for Performing Cultural Resource Fieldwork on Public Lands in the Area of New Mexico BLM Responsibilities*). The documentation will be forwarded to the BLM and SHPO for review and comment. If the FHWA, in consultation with the BLM and SHPO, determines that the cultural resource is eligible for inclusion on the National Register of Historic Places, the FHWA will consult with the BLM and the SHPO to develop and implement a plan to mitigate the effects of the undertaking on the historic property.
- B. If human remains, funerary objects, sacred objects, or objects of cultural patrimony are discovered during construction, work will stop in the immediate vicinity. The BLM and the FHWA will be notified of the discovery immediately by telephone with written confirmation. The remains will be protected from further disturbance, and the BLM will notify the appropriate local law enforcement agency and the Office of the Medical Investigator (OMI) immediately. If the OMI determines that the remains are without medico-legal significance, the OMI will terminate their jurisdiction to the BLM and the BLM and FHWA will determine the steps to be taken to protect or remove the remains in accordance with the Native American Graves Protection and Repatriation Act (25 USC 3001 et seq. and amendments).

III. DISPUTE RESOLUTION

Should any signatory to this Memorandum of Agreement (MOA) object at any time to any actions proposed or the manner in which the terms of this MOA are implemented, FHWA shall consult with such parties to resolve the objection. If FHWA determines, within thirty (30) days, that such objection cannot be resolved, FHWA will:

- A. Forward all documentation relevant to the dispute, including FHWA's proposed resolution, to the ACHP. Upon receipt of adequate documentation, the ACHP shall review and advise FHWA on the resolution of the objection within thirty (30) days of receiving adequate documentation. Any comment provided by the ACHP, and

all comments from the parties to the MOA, will be taken into account by FHWA in reaching a final decision regarding the dispute.

- B. If the ACHP does not provide any comments regarding the dispute within thirty (30) days after receipt of adequate documentation, FHWA may render a decision regarding the dispute and proceed accordingly. In reaching its decision, FHWA will take into account all comments regarding the dispute from the parties to the MOA.
- C. FHWA's responsibilities to carry out all other actions subject to the terms of this MOA that are not subject of the dispute remain unchanged. FHWA will notify all parties of its decision in writing before implementing that portion of the undertaking subject to dispute under this stipulation. FHWA's decision will be final.

IV. AMENDMENT

This MOA may be amended when such an amendment is agreed to in writing by all signatories. The amendment will be effective on the date a copy signed by all of the signatories is filed with the ACHP.

V. DURATION OF AGREEMENT/TERMINATION

Should the proposed undertaking be approved by the FHWA, this MOA shall remain in effect until the undertaking has been completed, and when all requirements of this MOA have been met. If implementation of the undertaking is delayed for more than five years after the date of execution of this MOA, the FHWA shall review this MOA to determine whether amendments are needed. If amendments are needed, the FHWA will consult with the SHPO and BLM in accordance with 36 CFR Part 800 to make such amendments. If within thirty (30) days (or another time period agreed to by the signatories) an amendment cannot be reached, any signatory may terminate the MOA upon written notification to the other signatories.

Once the MOA is terminated, and prior to work continuing on the undertaking, FHWA must either (a) execute an MOA pursuant to 36 CFR 800.6 or (b) request, take into account, and respond to the comments of the SHPO under 36 CFR 800.7. FHWA shall notify the signatories as to the course of action it will pursue.

VI. FAILURE TO CARRY OUT THE TERMS OF THE AGREEMENT

In the event that the terms of this Agreement are not completed, the FHWA shall comply with 36 CFR 800.4 through 800.6 with regard to individual actions covered by this MOA.

VII. SCOPE OF AGREEMENT

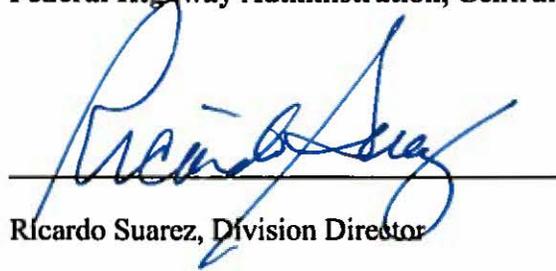
This MOA is limited in scope to the 2.4 miles of Baylor Canyon Road and 2.5 miles of Dripping Springs Road and is entered into solely for that purpose, should the proposed undertaking be approved by the FHWA.

VIII. EXECUTION

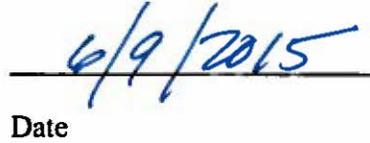
Execution of this MOA by the FHWA, BLM, and the SHPO, and implementation of its terms, evidences that the FHWA has afforded the ACHP an opportunity to comment on the project and that FHWA has taken into account the effects of the undertaking on historic properties.

SIGNATORIES:

Federal Highway Administration, Central Federal Lands Highway Division

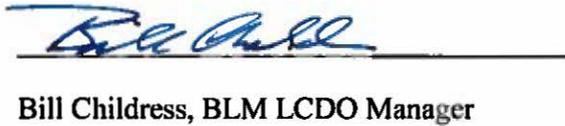


Ricardo Suarez, Division Director



Date

Bureau of Land Management, Las Cruces Office

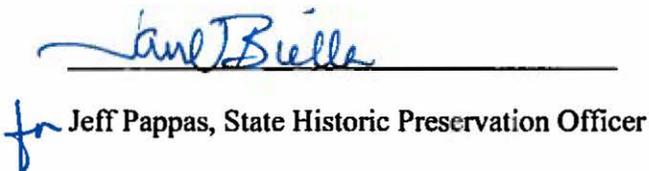


Bill Childress, BLM LCDO Manager

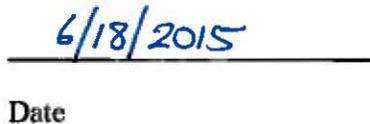


Date

New Mexico State Historic Preservation Officer



for Jeff Pappas, State Historic Preservation Officer



Date

ATTACHMENT A

Description of the Undertaking

The Federal Highway Administration, Central Federal Lands Highway Division (FHWA), in cooperation with the Bureau of Land Management, Las Cruces District Office (BLM) is proposing roadway improvements on 2.4 miles of Baylor Canyon and 2.5 miles of Dripping Springs Road in Dona Ana County, New Mexico. These improvements would serve to increase federal land access and increase roadway user safety. The road will be improved (paved) to include a 32-foot section, which includes two 11-foot lanes and two 5-foot shoulders. Other improvements include the following:

- Installation of 18 low water crossings, with 13 on Baylor Canyon Road and 5 on Dripping Springs Road.
- Installation of two culverts and extension of one culvert on Baylor Canyon Road.
- Minor straightening of one curve along Baylor Canyon Road.
- Realignment of the intersection at Baylor Canyon Road and Dripping Springs Road. This realignment would improve safety at one curve and improve drainage at one arroyo where water currently pools behind the roadway.
- Construction of roadside ditches throughout the project corridor.
- Construction of three pullouts, which are generally 120 feet long and 14 feet wide, of which two would be located on Baylor Canyon Road and one located on Dripping Springs Road.
- Signage to enhance safety for cyclists and wildlife – this would include “Share the Road” signs and “Open Range” signs.
- Approximately a 90- to 100-foot wide right-of-way to allow for construction and maintenance activities.
- Painting stripes that consist of two yellow, reflective center line stripes and two white, reflective edge marker stripes, on any paved roads.
- Replacement of three cattle guards and any fencing and gates affected by the project, which would include approximately 1.7 miles of barbed wire fence located on the north side of Dripping Springs Road.
- A posted speed limit of 35 miles per hour throughout the project corridor and signage noting the presence of low water crossings with an advisory speed limit of 25 miles per hour.

- Placement of a conduit for a livestock water pipeline to cross under the road near the intersection of Dripping Springs Road and Baylor Canyon Road.
- Installation of the water pipeline through the conduit to the watering facilities at the livestock pens located north of Dripping Springs Road.

ATTACHMENT B

Associated Plan Sheets (70% design)

The proposed horizontal alignment for this project at the intersection of Baylor Canyon Road and Dripping Springs Road will not be changed within this area of potential effect except if minor changes can avoid or further minimize impacts to HCPI 36654.

Minor changes to horizontal or vertical alignment of the Baylor Canyon Road and Dripping Springs Road may be made in the process of finalizing the project plans.

Figure 1: Intersection of Dripping Springs Road and Baylor Canyon Road

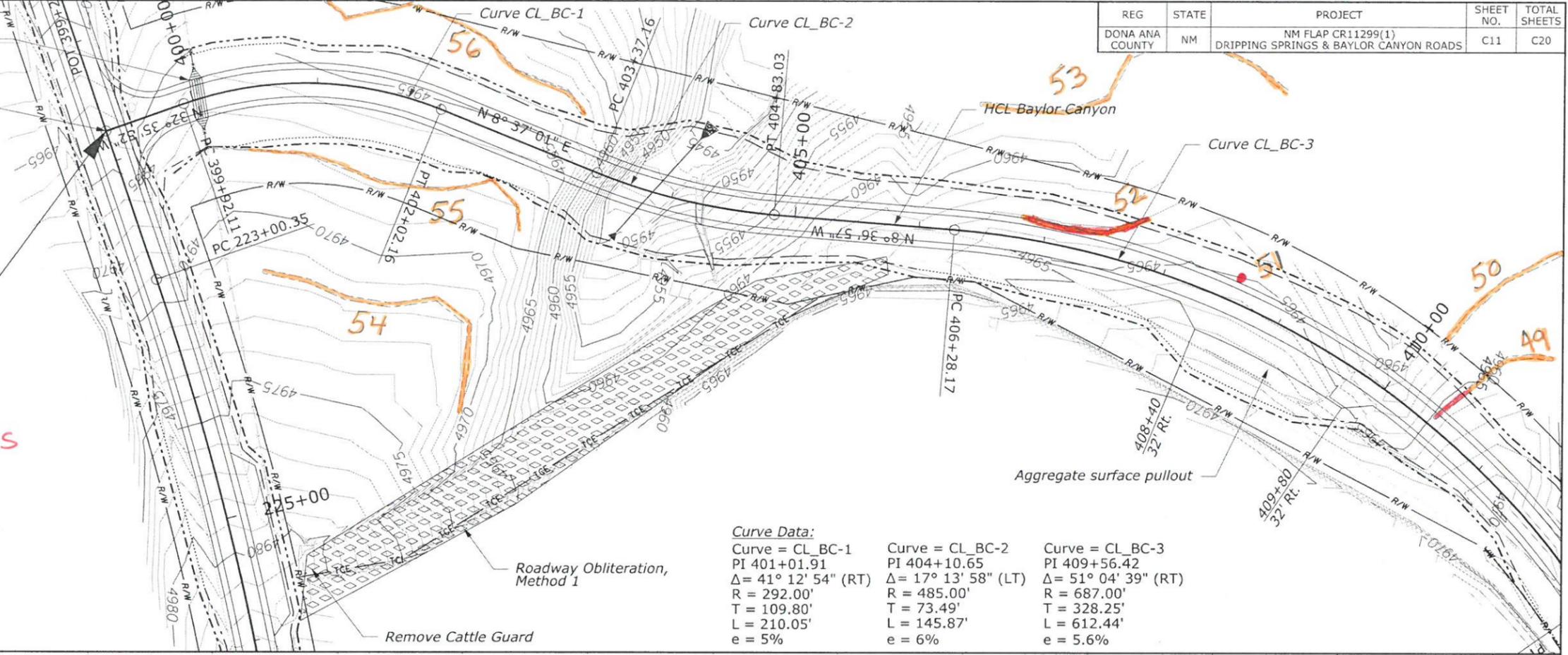
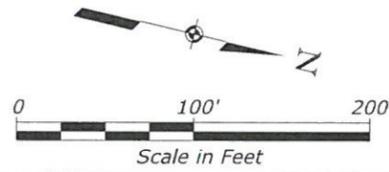


REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
DONA ANA COUNTY	NM	NM FLAP CR11299(1) DRIPPING SPRINGS & BAYLOR CANYON ROADS	C11	C20

HCL Baylor Canyon Station 399+25.94=
HCL Dripping Springs Station 221+75

Begin Project
Station 399+25.94
NM FLAP CR11299(1)
Baylor Canyon Drive
N 482840.65
E 1524210.44

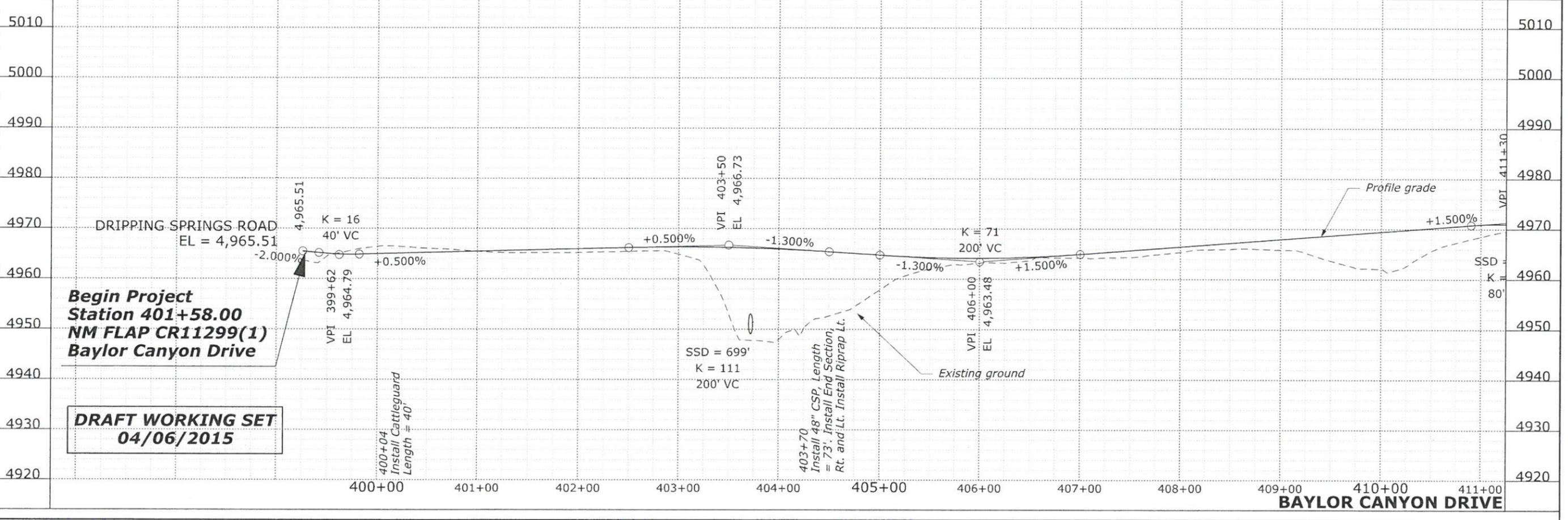
— Features
— Impacted features



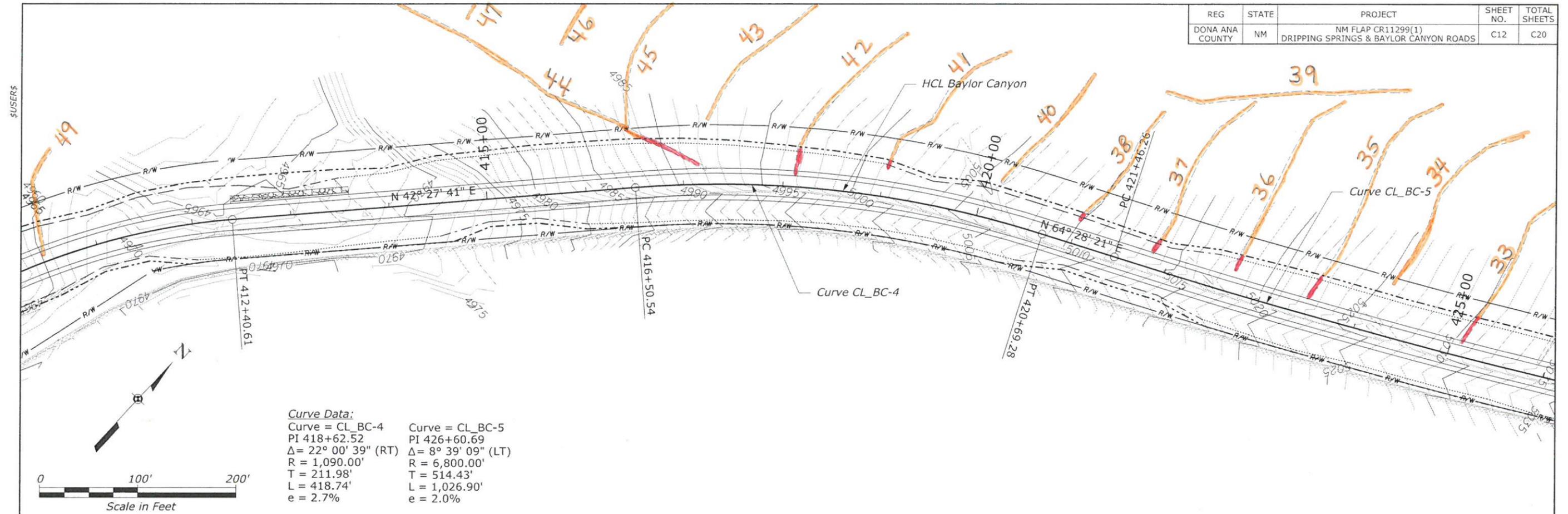
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R = 292.00'	R = 485.00'	R = 687.00'
T = 109.80'	T = 73.49'	T = 328.25'
L = 210.05'	L = 145.87'	L = 612.44'
e = 5%	e = 6%	e = 5.6%

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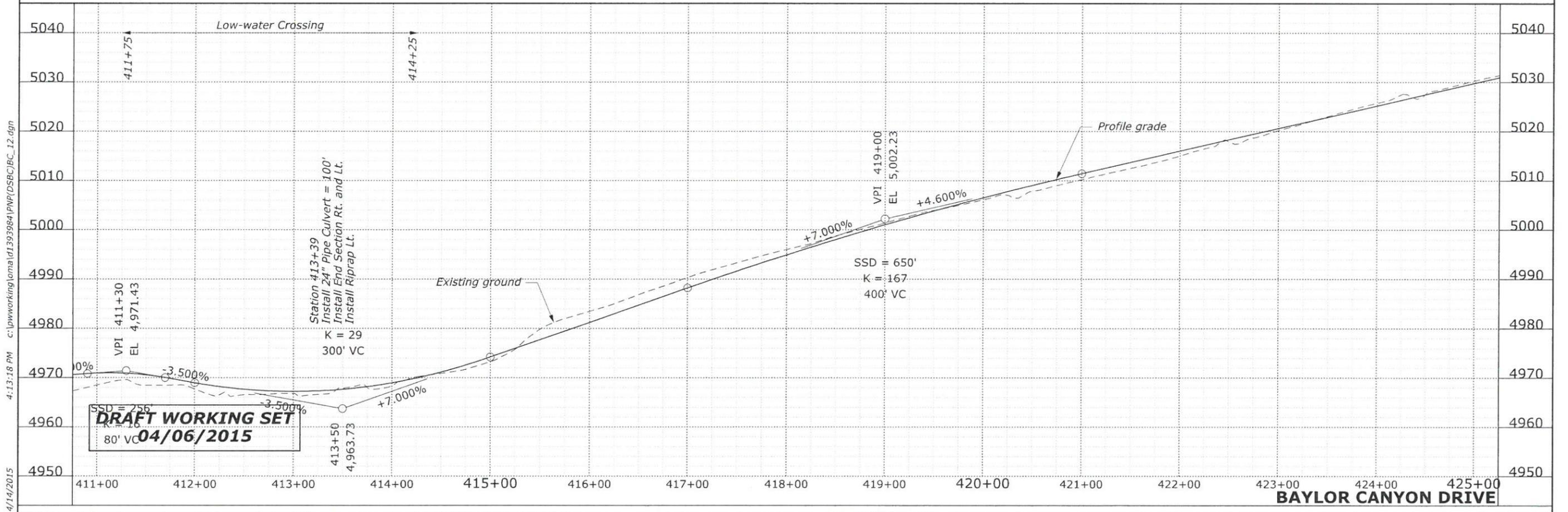


REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
DONA ANA COUNTY	NM	NM FLAP CR11299(1) DRIPPING SPRINGS & BAYLOR CANYON ROADS	C12	C20



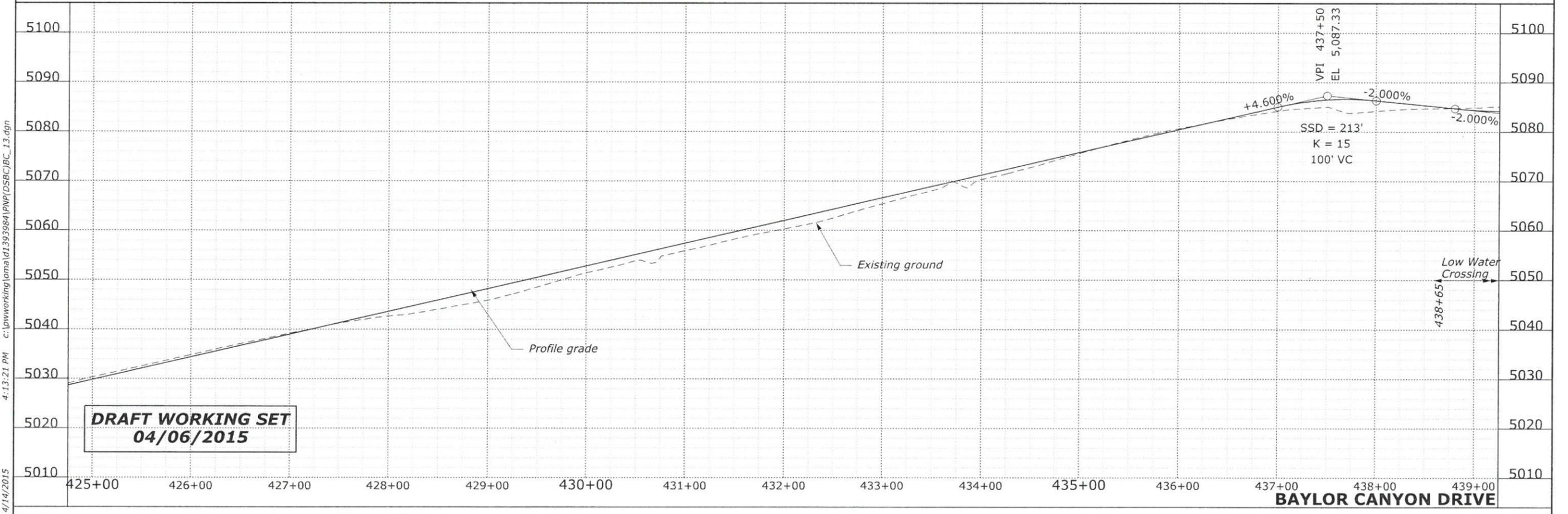
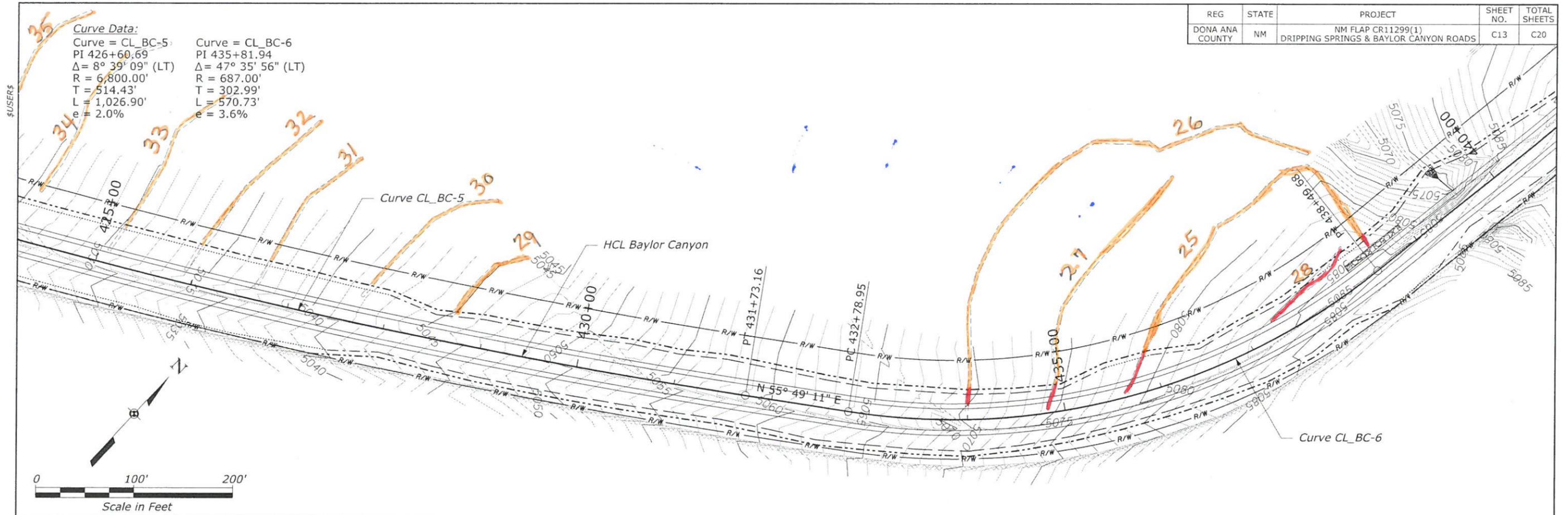
Curve Data:

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PI 418+62.52	PI 426+60.69
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R = 1,090.00'	R = 6,800.00'
T = 211.98'	T = 514.43'
L = 418.74'	L = 1,026.90'
e = 2.7%	e = 2.0%



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REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
DONA ANA COUNTY	NM	NM FLAP CR11299(1) DRIPPING SPRINGS & BAYLOR CANYON ROADS	C13	C20

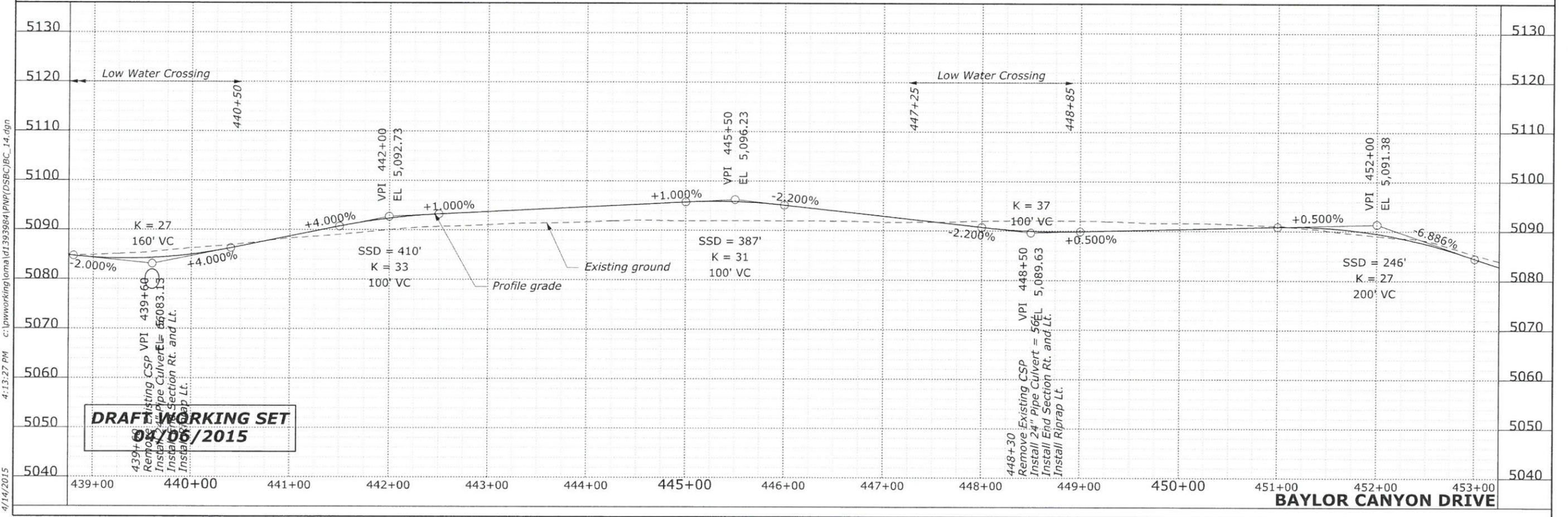
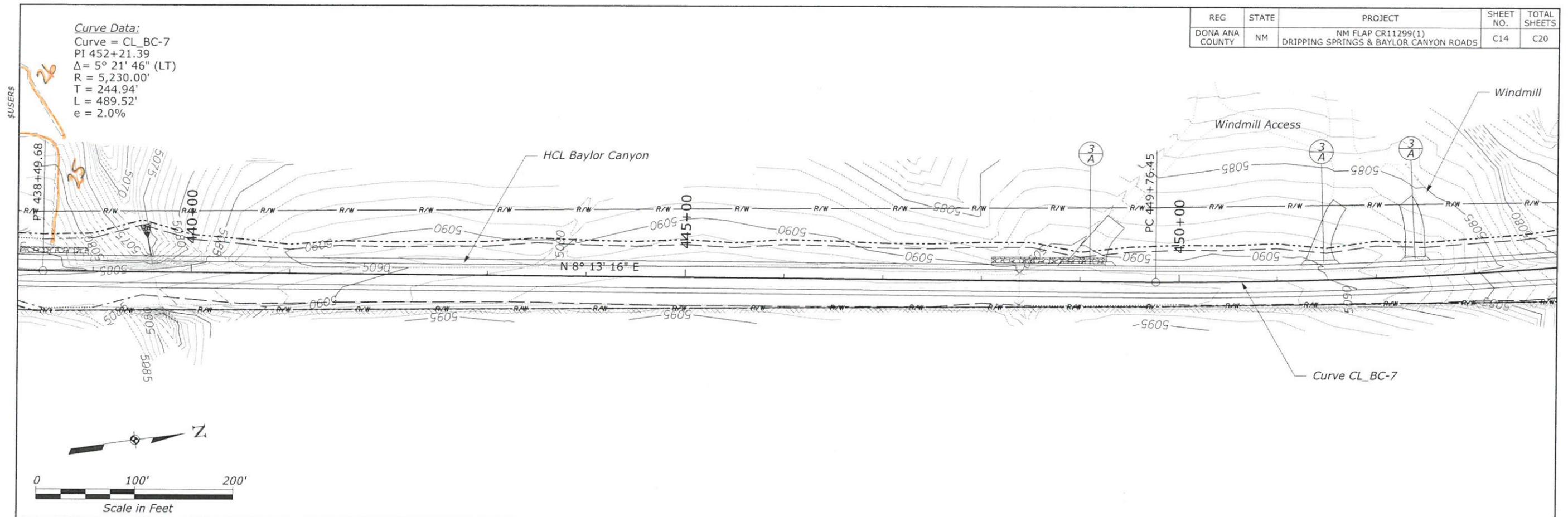


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4/14/2015

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
DONA ANA COUNTY	NM	NM FLAP CR11299(1) DRIPPING SPRINGS & BAYLOR CANYON ROADS	C14	C20

Curve Data:
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 $T = 244.94'$
 $L = 489.52'$
 $e = 2.0\%$

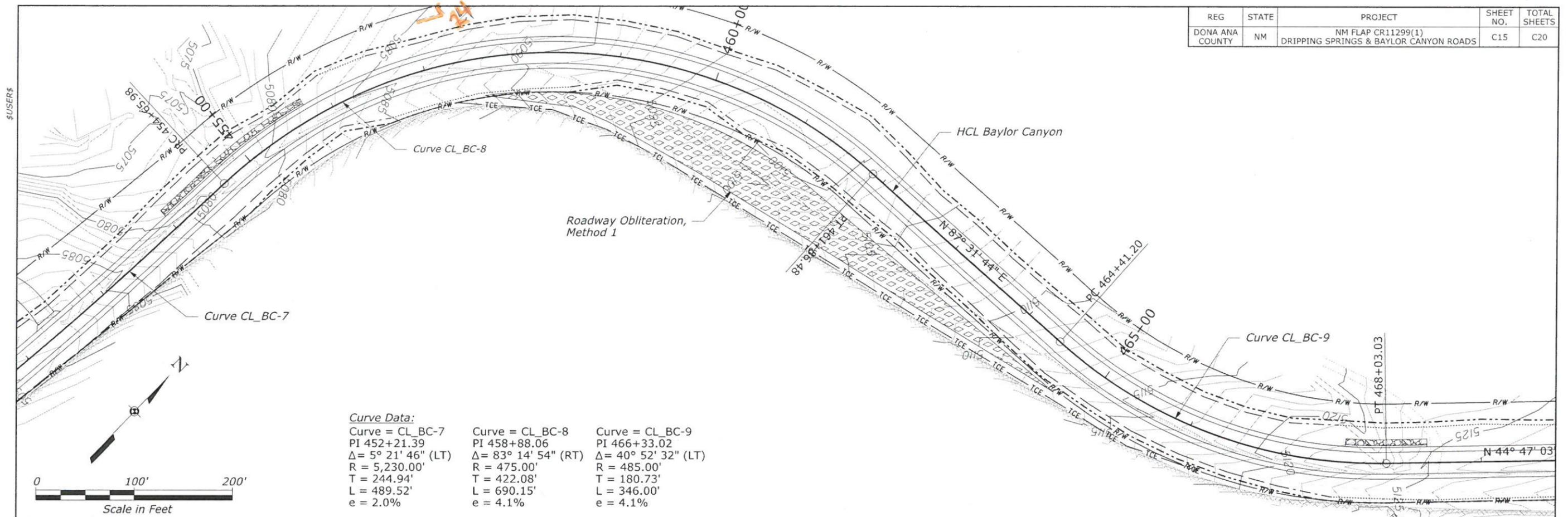


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DRAFT WORKING SET
 04/06/2015

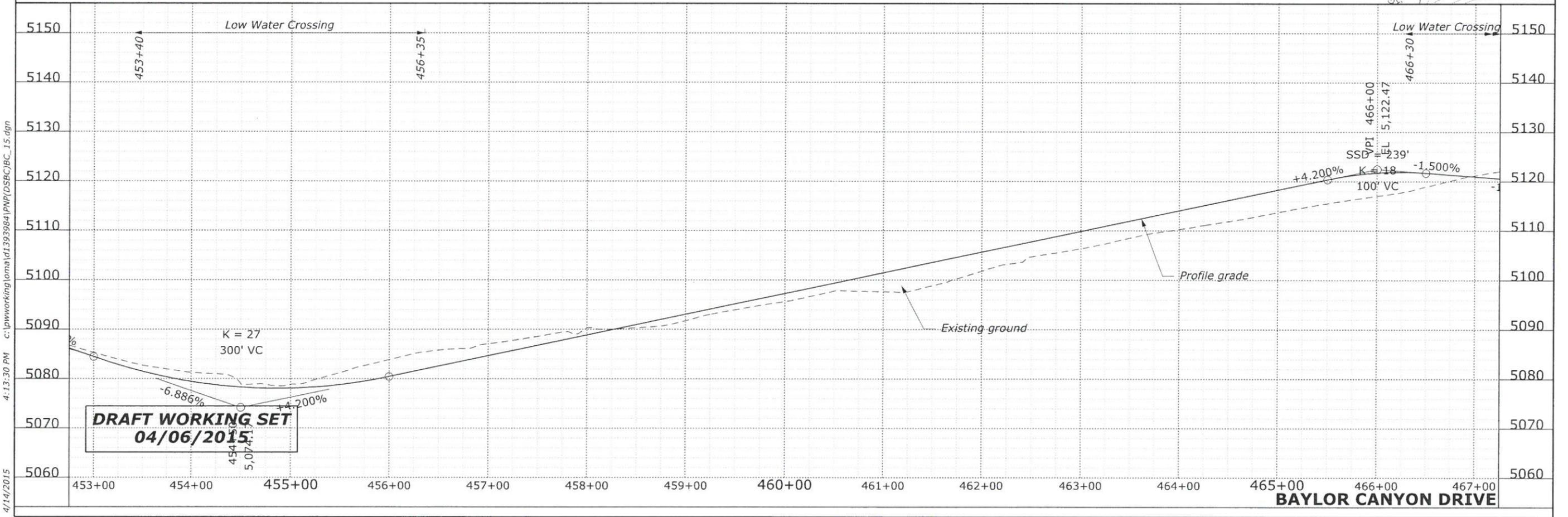
BAYLOR CANYON DRIVE

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
DONA ANA COUNTY	NM	NM FLAP CR11299(1) DRIPPING SPRINGS & BAYLOR CANYON ROADS	C15	C20



Curve Data:

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R = 5,230.00'	R = 475.00'	R = 485.00'
T = 244.94'	T = 422.08'	T = 180.73'
L = 489.52'	L = 690.15'	L = 346.00'
e = 2.0%	e = 4.1%	e = 4.1%

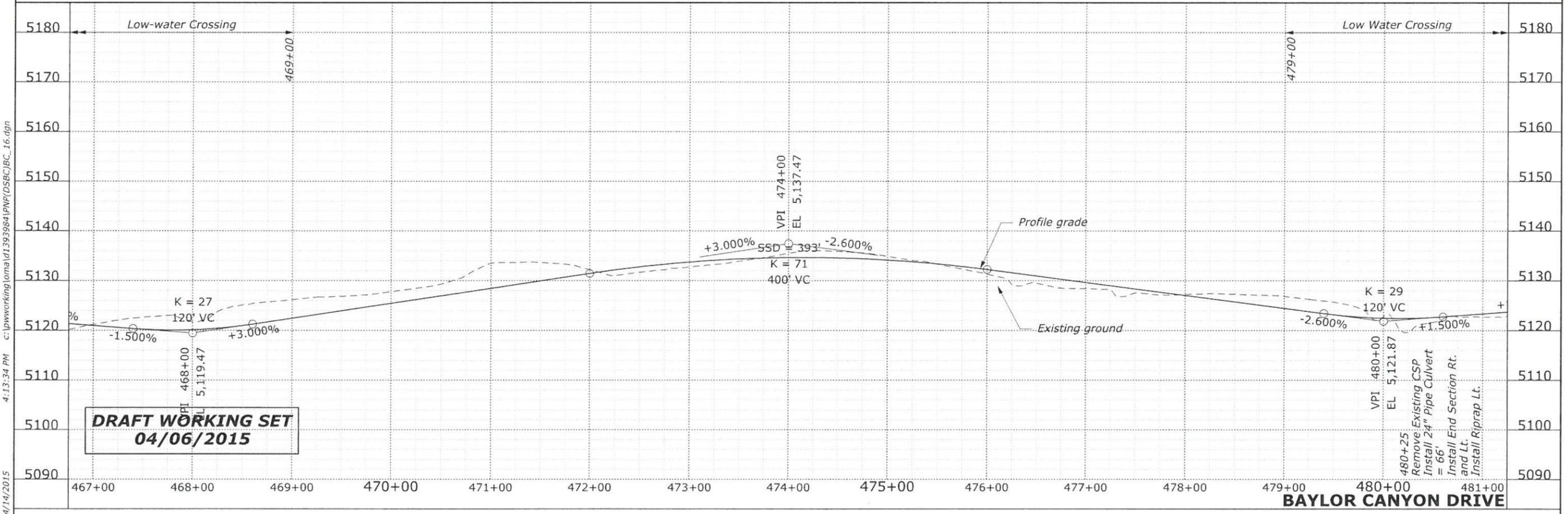
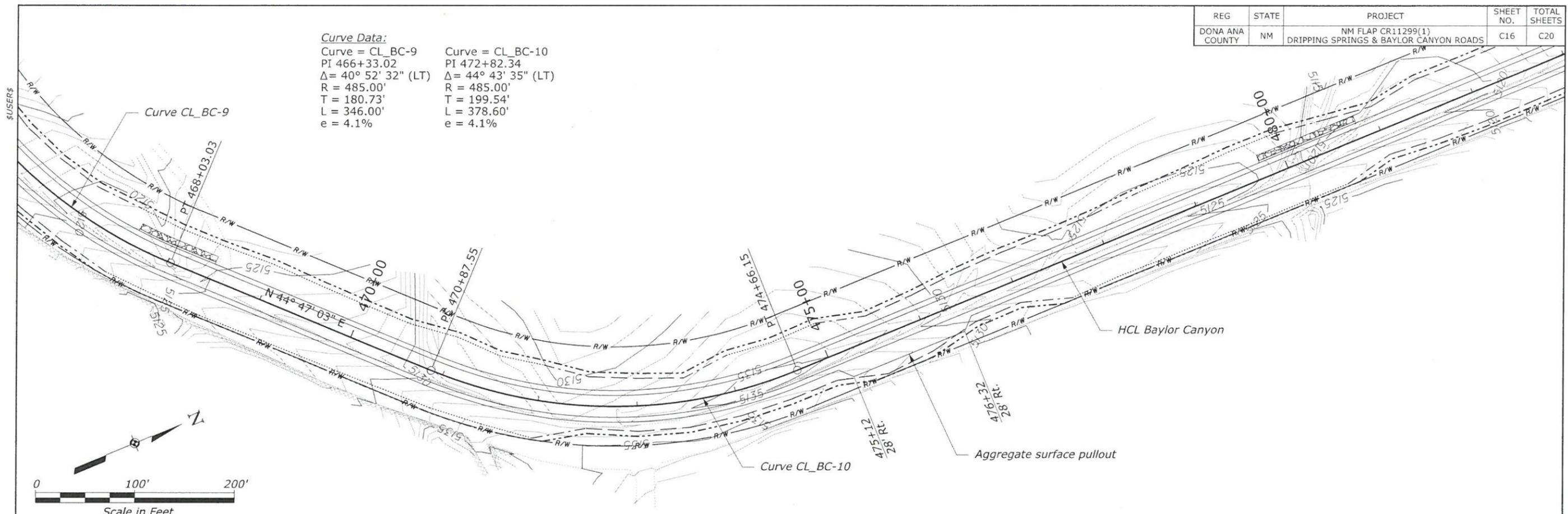


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DRAFT WORKING SET
04/06/2015

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
DONA ANA COUNTY	NM	NM FLAP CR11299(1) DRIPPING SPRINGS & BAYLOR CANYON ROADS	C16	C20

Curve Data:
 Curve = CL_BC-9 Curve = CL_BC-10
 PI 466+33.02 PI 472+82.34
 $\Delta = 40^\circ 52' 32''$ (LT) $\Delta = 44^\circ 43' 35''$ (LT)
 R = 485.00' R = 485.00'
 T = 180.73' T = 199.54'
 L = 346.00' L = 378.60'
 e = 4.1% e = 4.1%



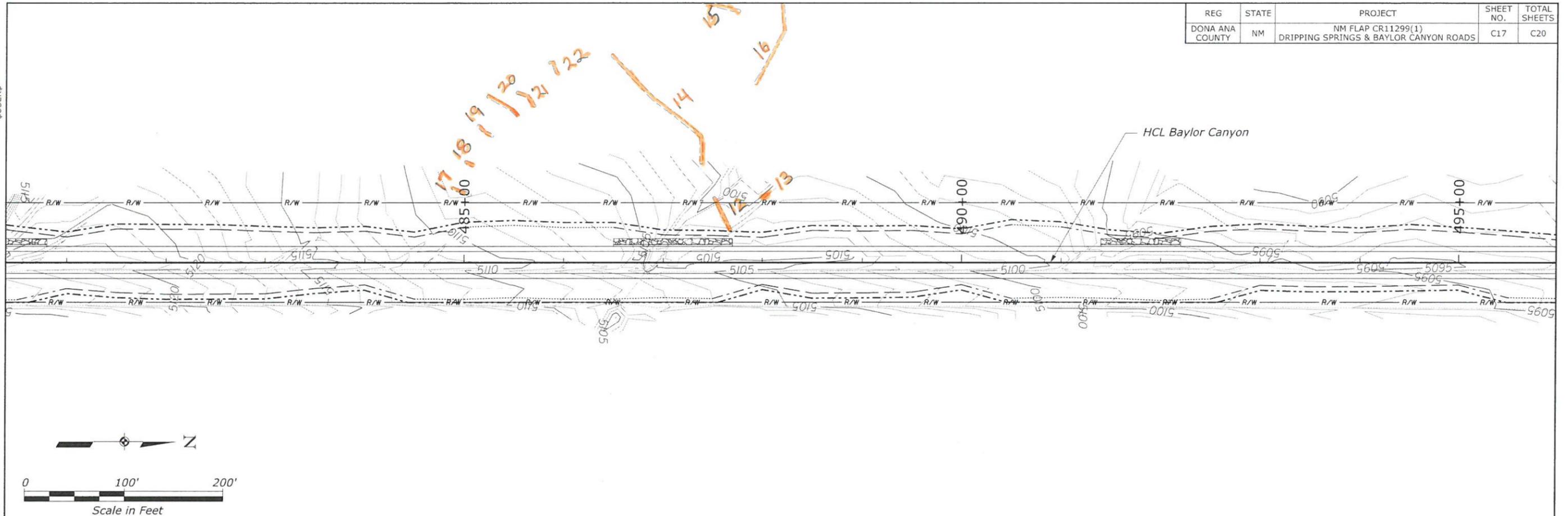
DRAFT WORKING SET
04/06/2015

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BAYLOR CANYON DRIVE

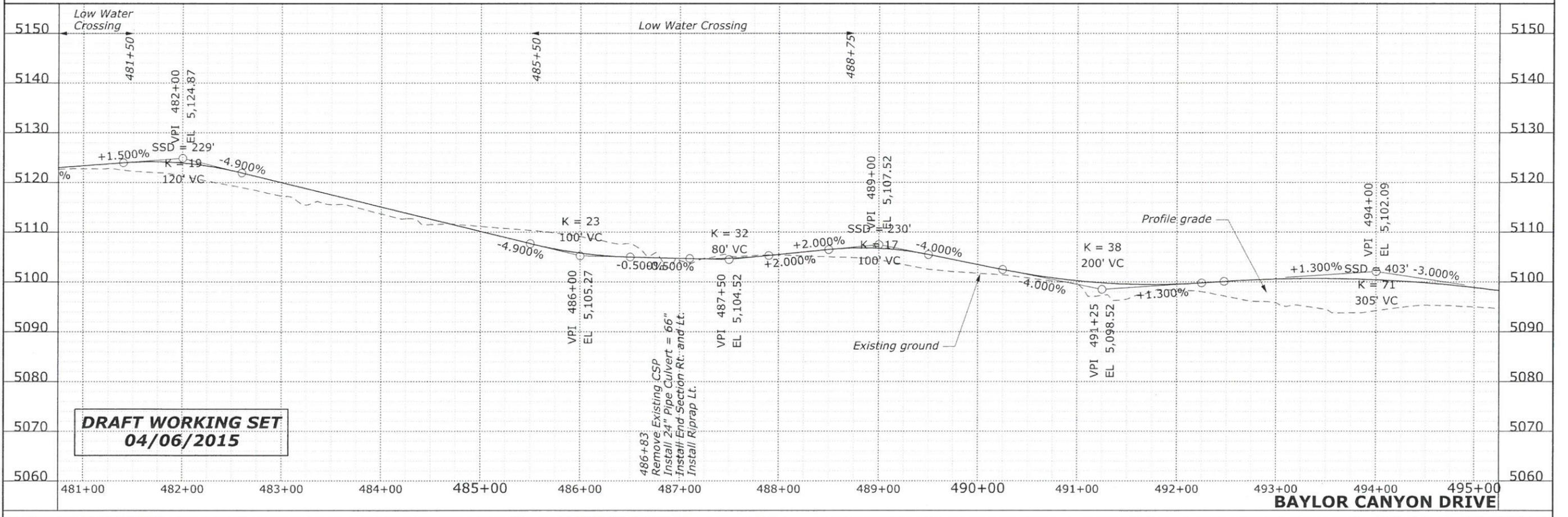
REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
DONA ANA COUNTY	NM	NM FLAP CR11299(1) DRIPPING SPRINGS & BAYLOR CANYON ROADS	C17	C20

\$USERS



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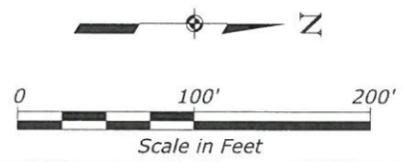
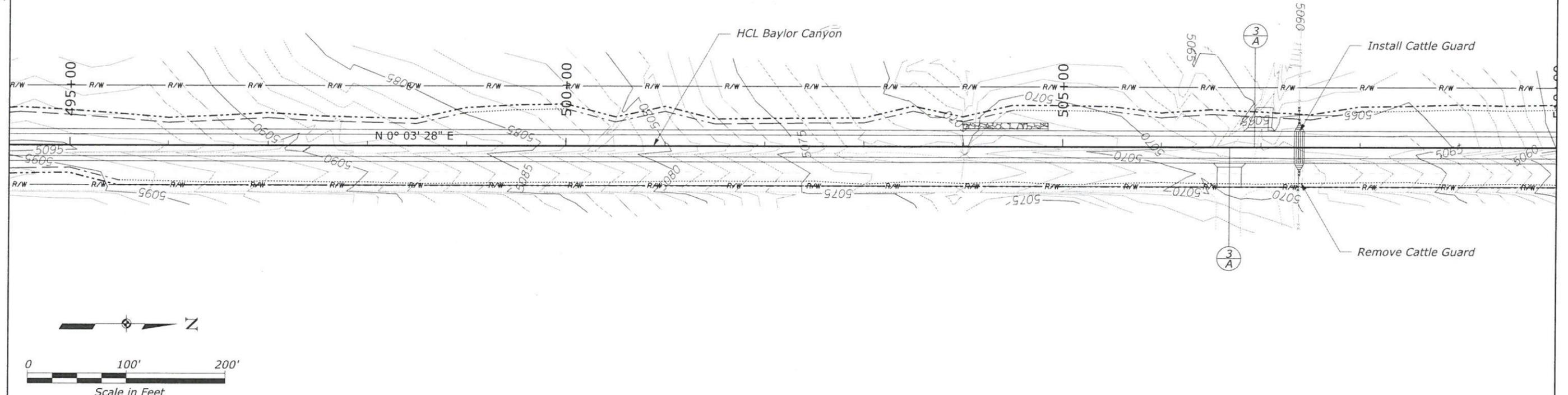
4/14/2015



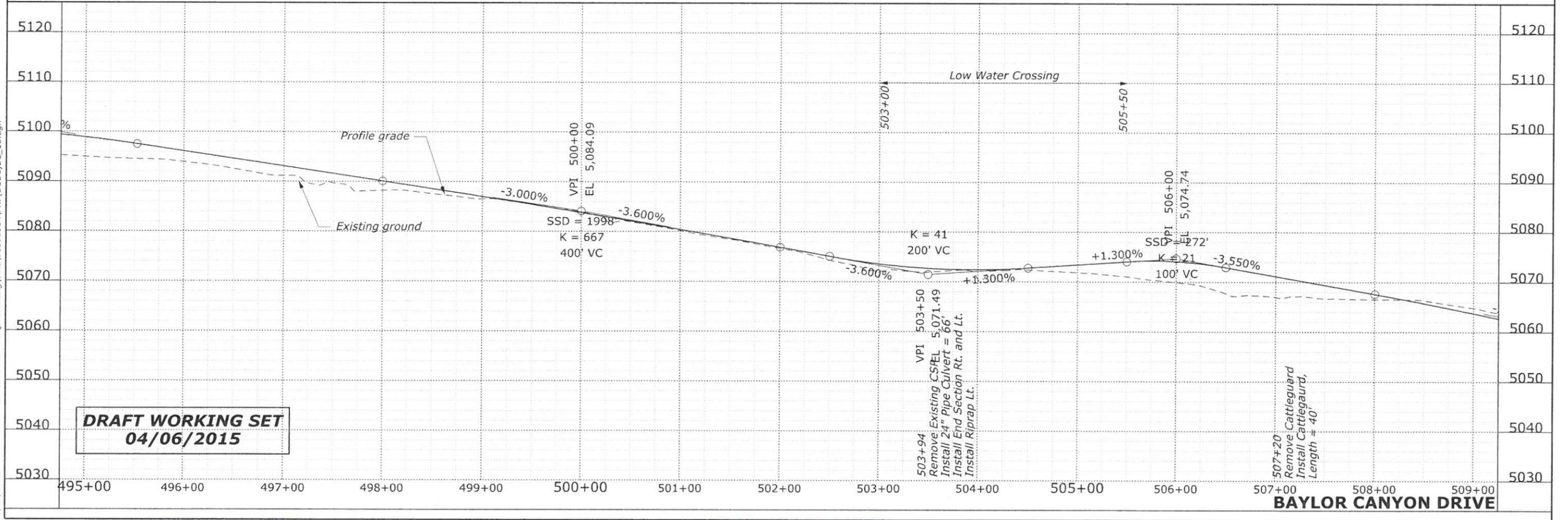
BAYLOR CANYON DRIVE

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
DONA ANA COUNTY	NM	NM FLAP CR11299(1) DRIPPING SPRINGS & BAYLOR CANYON ROADS	C18	C20

\$USERS\$

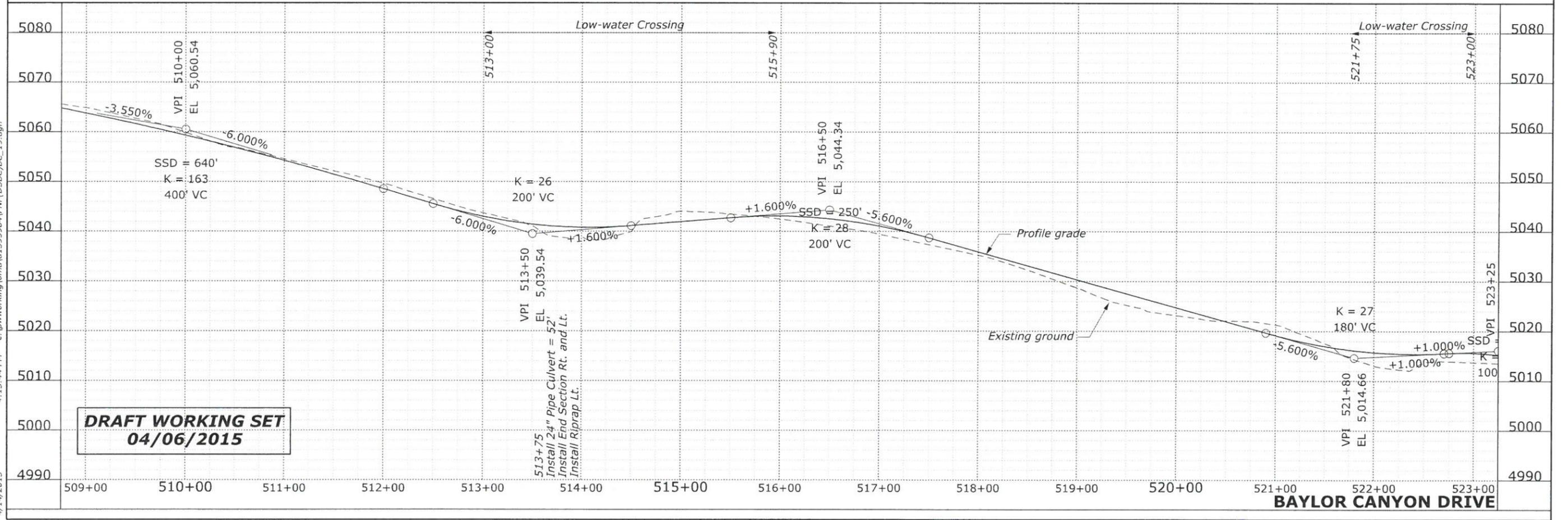
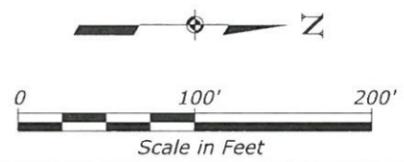
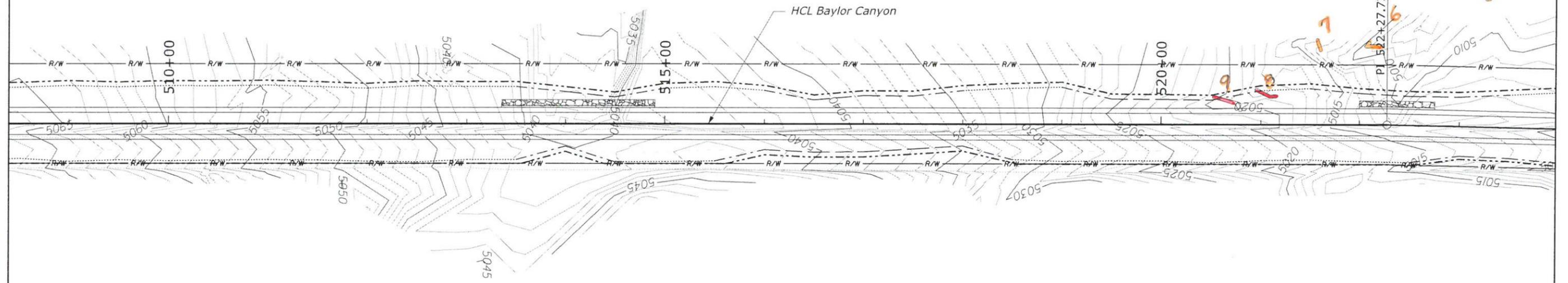


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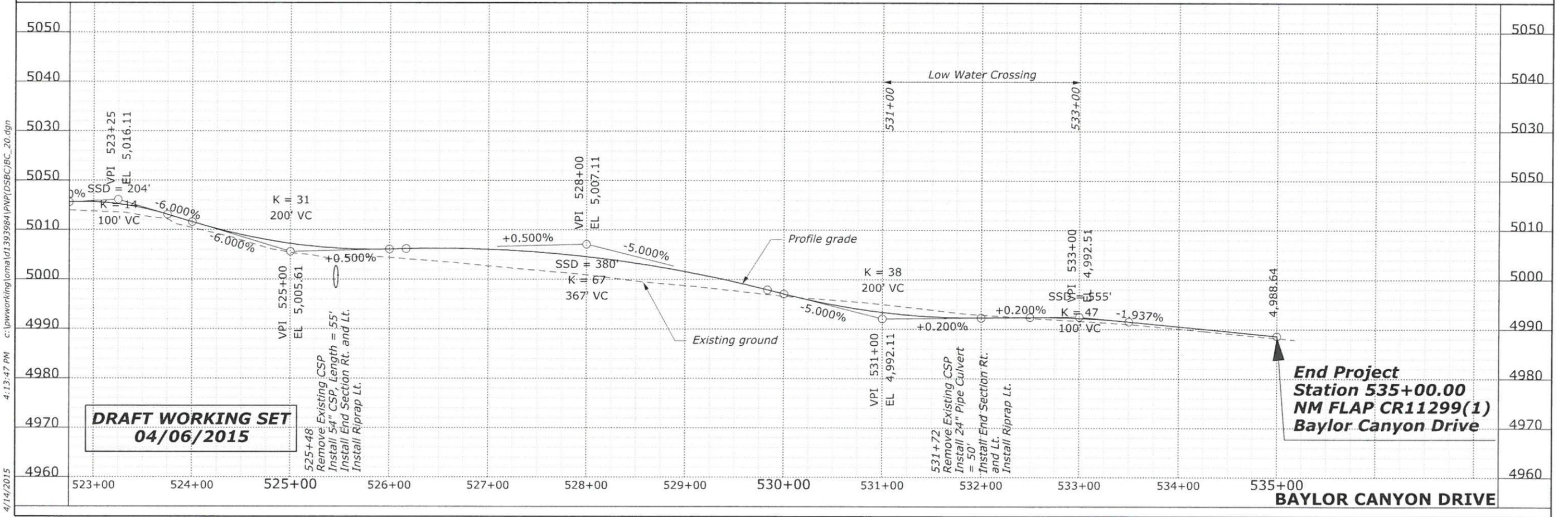
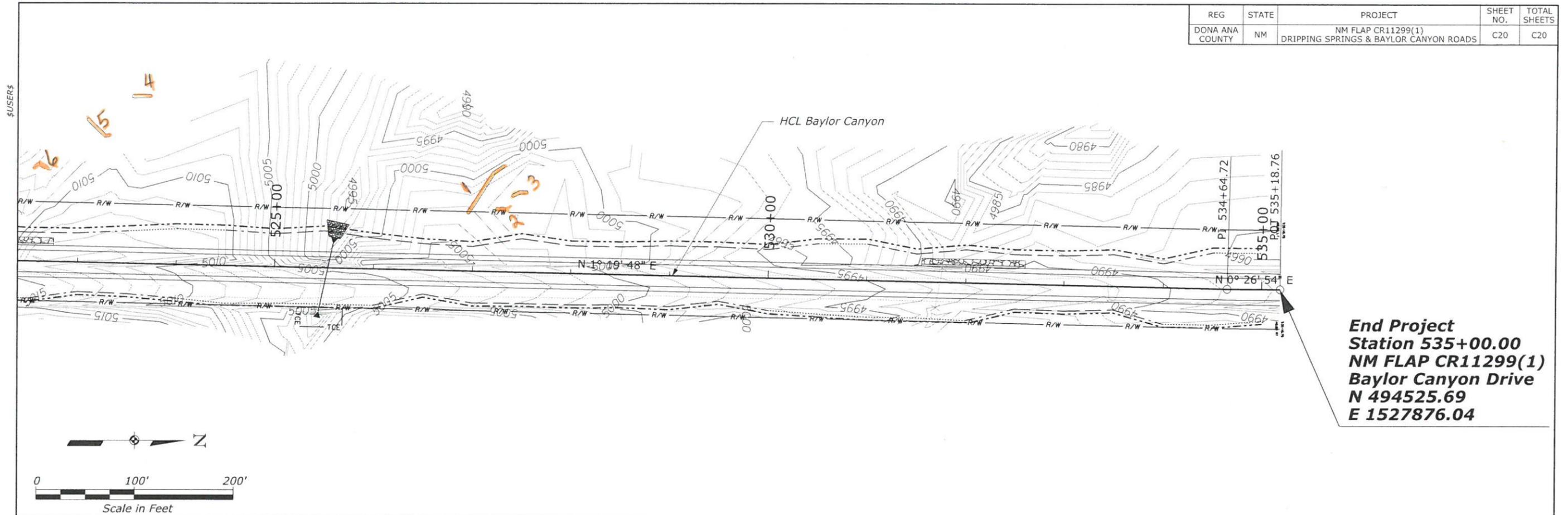
REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
DONA ANA COUNTY	NM	NM FLAP CR11299(1) DRIPPING SPRINGS & BAYLOR CANYON ROADS	C19	C20

\$USERS



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REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
DONA ANA COUNTY	NM	NM FLAP CR11299(1) DRIPPING SPRINGS & BAYLOR CANYON ROADS	C20	C20



DRAFT WORKING SET
04/06/2015

End Project
Station 535+00.00
NM FLAP CR11299(1)
Baylor Canyon Drive

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