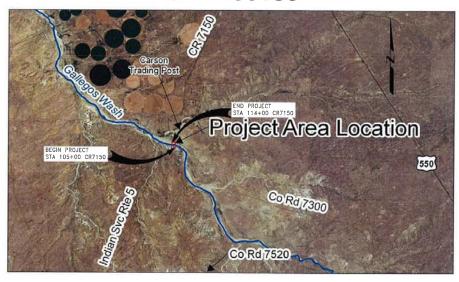
REPLACEMENT OF BRIDGE NO. 8105 CR7150 OVER GALLEGOS WASH CONSTRUCTION PLANS

NMDOT PROJECT NO. F100180, CN F100180



AUGUST 2013

PROJECT

DESIGN SPEED: 50 MPH - CR7150 DESIGN VOLUMES: 400 VPD - CR7150 DESIGN YEAR: 2035 PROJECT LENGTH: 900 LF - CR7150



SAN JUAN COUNTY
PUBLIC WORKS DEPARTMENT
305 SOUTH OLIVER DRIVE
AZTEC, NEW MEXICO 87410

INDEX OF SHEETS

1-1 COVER SHEET
1-2 INDEX OF APPLICABLE STANDARD SERIAL DRAWINGS
1-3 GENERAL MOTES - CLASS 'A' SEEDING
1-5 ENIFRONMENTAL COMMITMENTS
1-6 ENIFRONMENTAL COMMITMENTS
1-7 SEMPROMENTAL COMMITMENTS
1-8 SURVEY CONTROL PLAN
1-8 SURVEY CONTROL PLAN
1-9 TYPICAL SECTIONS
1-10 SUMMARY OF QUANTITIES
1-11 SURFACING SCHEDULE AND EARTHWORK QUANTITIES
1-11 SURFACING SCHEDULE AND EARTHWORK QUANTITIES
1-12 GRADING PLAN - SOUTH ABUTMENT
1-13 SURFACING SCHEDULE AND FORTH ABUTMENT
1-14 SURFACING SCHEDULE AND FORTH ABUTMENT
1-15 SEMPLO PLAN - SOUTH ABUTMENT
1-16 SEAM CHARDENT RIPPAR PROTECTION
1-16 SEAM GLARDRAIL TYPES 1-2 (W-BEAM) - MIDDT GR31-1
1-17 SURFACING SCHEDULE AND FORTH ABUTMENT
1-18 SURFACING SCHEDULE AND FORTH ABUTMENT
1-19 SEAM GLARDRAIL TYPES 1-2 (W-BEAM) - MIDDT GR31-1
1-10 SEAM GLARDRAIL TYPES 1-2 (W-BEAM) - MIDDT GR31-1
1-10 SEAM GLARDRAIL TYPES 1-2 (W-BEAM) - MIDDT GR31-1
1-10 SEAM GLARDRAIL TYPES 1-2 (W-BEAM) - MIDDT GR31-1
1-10 SEAM GLARDRAIL TYPES 1-2 (W-BEAM) - MIDDT GR31-1
1-10 SEAM GLARDRAIL TYPES 1-2 (W-BEAM) - MIDDT GR31-1
1-10 SEAM GLARDRAIL SEAM - MIDDT GR31-1
1-10 SEAM GLARDRAIL SEAM - MIDDT GR31-1
1-10 SEAM GLARDRAIL SEAM - MIDDT GR31-1
1-11 SEAM GLARDRAIL SEAM - MIDDT GR31-1
1-11 SEAM GLARDRAIL SEAM - MIDDT GR31-1
1-12 SEAM GLARDRAIL SEAM - MIDDT GR31-1
1-13 SEAM GLARDRAIL SEAM - MIDDT GR31-1
1-14 SEAM GLARDRAIL SEAM - MIDDT GR31-1
1-15 SEAM GLARDRAIL SEAM - MIDDT GR31-1
1-16 SEAM GLARDRAIL SEAM - MIDDT GR31-1
1-17 SEAM GLARDRAIL SEAM - MIDDT GR31-1
1-18 SEAM GLARDRAIL SEAM - MIDDT GR31-1
1-19 SEAM GLARDRAIL SEAM - MIDDT GR31-1
1-10 SEAM GLARDRAIL SEAM - SECURIONS - MIDDT GR31-1
1-10 SEAM GLARDRAIL SEAM - MIDTT GRAIL SEAM - MIDTT GRAIL SEAM - MIDTT G



MILITARY BRIDGE REPLACEMENT CR 7150 OVER GALLEGOS WASH

COVER SHEET

PROFESSIONAL

SHEET NO. 1-1

505-334-4520

DESIGNED BY: RPV DRAWN BY: RPV CHECKED BY: RBB

INDEX OF NMDOT STANDARD SERIAL DRAWINGS

DESCRIPTION	SERIAL	REV DAT
Fill Height & Bedding Details for Circular Concrete Pipe Culverts	206-01-1/1	04/10/12
Max. and Min. Cover - Steel - Round Pipes, Helical Corrugated Metal, and Structural Plates	206-03-1/1	04/10/12
Max. and Min. Cover - Aluminum Round Pipes, Helical Corrugated Metal, and Structural Plates	206-05-1/1	04/10/12
Corrugated Metal Culvert and Pipe Arches Bedding and Backfill Details	206-07-1/1	08/29/08
Single Metal Pipe Concrete Blanket without Safety Grate (Normal & 5° to 35° Skew)	511-11-1/2	07/15/11
Single Metal Pipe Concrete Blanket without Safety Grate (Normal & 5* to 35° Skew)	511-11-2/2	07/15/11
Culvert Pipe End Sections (Metal)	570-02-1/2	11/10/09
Culvert Pipe End Sections (Concrete)	570-02-2/2	11/10/09
Metal Railing NM Type A42 Details of Posts on Bridge, Wingwalls and Approach Slab	543-07-1/4	04/08/13
Metal Railing NM Type A42 Railing Elevation & Rail Expansion Joint Detail	543-07-2/4	04/08/13
Metal Railing NM Type A42 General Notes & Details of Rail to Post Connection & Gutter Details	543-07-3/4	04/08/13
Metal Railing NM Type A42 Details of Posts on Bridge, Wingwalls and Approach Slab	543-07-4/4	04/08/13
System 1 - Bridge Joint Strip Seal - General	562-01-1/3	08/17/12
System 1 - Bridge Joint Strip Seal - Type "A" Installation	562-01-2/3	04/03/12
System 1 - Bridge Joint Strip Seal - Type "B" Installation	562-01-3/3	04/03/12
Wire Enclosed Riprap, Class A	602-01-1/1	11/16/09
Erosion Control at Culvert Outlets	602-02-1/1	11/16/09
Temporary Erosion and Sediment Control Measures	603-01-1/7	11/29/04
Temporary Erosion and Sediment Control Measures Check Dams	603-01-2/7	11/29/04
Temporary Erosion and Sediment Control Measures Silt Fence	603-01-3/7	11/29/04
Temporary Erosion and Sediment Control Measures Culvert and Drop Inlet Protection	603-01-4/7	11/29/04
T.E.S.C.M. Sediment Basin, Sediment Trap, & Earth Dike	603-01-5/7	11/29/04
Temp. Erosion and Sediment Control Measures Pipe Slope Drain & Surface Roughening	603-01-6/7	11/29/04
T.E.S. C.M. Offsite Tracking Prevention & Diversion Dike	603-01-7/7	11/29/04
Median Drop Inlet Detail and Quantities Type I and Type II	623-02-1/1	11/10/09
Median Drop Inlet Valley Type Modification Details Type I, Type II, Type III	623-04-1/1	11/10/09
Small Sign Support Installation Details	701-02-1/3	01/11/05
Small Sign Support Installation Details	701-02-2/3	02/03/05
Multi-Directional Slip Base Post Details	701-02-3/3	01/11/05
Aluminum Sign Panel Details	701-03-1/2	01/11/05
Aluminum Panel Sign Details	701-03-2/2	01/11/05
Construction Sign Face Details	702-01-1/3	04/25/05
Channelization Devices & Portable Sign Supports for Constr., Maint., Util., & Incident Mgmt. Operations	702-01-2/3	04/25/05
Construction Traffic Notes	702-01-3/3	02/28/07

NOTE: THE CONTRACTOR SHALL OBTAIN THE NMDOT STANDARD SERIAL DRAWINGS IDENTIFIED ABOVE FROM THE NMDOT WEBSITE; PHYSICAL COPIES OF THESE DRAWINGS ARE NOT INCLUDED IN THESE CONSTRUCTION DOCUMENTS.



6501 Americas Porkway, NE Suite 900
Albuquerque, New Mexica 87110
p 505.855.7500 r 505.855.7555

3
2
1
NO. DESCRIPTION DATE BY
REVISIONS

SAN JUAN COUNTY
Public Works Department

MILITARY BRIDGE REPLACEMENT CR 7150 OVER GALLEGOS WASH BRIDGE NO. 9586

INDEX OF APPLICABLE STANDARD SERIAL DRAWINGS

SHEET NO. 1-2

BESIGNED BY: DRAWN BY: CHECKED BY:

GENERAL NOTES

- SPECIFICATIONS; NEW MEXICO STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION, 2007 EDITION, SHALL BE USED TO CONTROL CONSTRUCTION OF THIS PROJECT.
- 2. CONSTRUCTION EQUIPMENT AND MATERIAL STORAGE; THE CONTRACTOR SHALL NOT STORE EQUIPMENT OR MATERIAL WITHIN 25' OF THE EDGE OF TRAVEL LANES UNLESS THE EQUIPMENT OR MATERIAL IS PROPERLY SHIELDED. THE DESIGN FOR SHIELDING SHALL BE PROVIDED BY THE CONTRACTOR AND MUST BE APPROVED BY THE OWNER'S REPRESENTATIVE BEFORE IMPLEMENTING THE WORK, INCLUDING DESIGN, DESIGN, INSTALLATION AND REMOVAL OF THE SHIELDING SHALL BE CONSIDERED INCIDENTAL TO THE COMPLETION OF THE PROJECT, AND NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE THEREFOR.
- 3. <u>REMOVALS</u>: THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REMOVALS REQUIRED TO COMPLETE THE PROJECT. ADDITIONAL REMOVALS NOT SHOWN ON THE PLAN WILL BE DESIGNATED BY THE ENGINEER. THIS WORK WILL BE CONSIDERED AS INCLUDED IN THE CONTRACT PRICE FOR ITEM 601000 "REMOVAL OF STRUCTURES AND OBSTRUCTIONS" AND THE CONTRACTOR WILL NOT RECEIVE ADDITIONAL COMPENSATION FOR UNLISTED REMOVALS.
- 4. SALVAGEABLE MATERIALS: SALVAGEABLE MATERIALS FROM THE PROJECT SHALL BE DELVREDD TO THE SAN JUAN COUNTY STORAGE YARD DESIGNATED BY THE ENGINEER. HAUL OF THIS MATERIAL SHALL BE PERFORMED DURING NORMAL WORKING HOURS AS DIRECTED BY THE ENGINEER. PAYMENT FOR THIS WORK SHALL BE INCLUDED IN THE CONTRACT PRICE FOR ITEM 601000 "REMOVAL OF STRUCTURES AND OBSTRUCTIONS". ITEMS NOT IDENTIFIED AS SALVAGEABLE BY THE ENGINEER SHALL BE DISPOSED OF BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE COUNTY.

THE CONTRACTOR SHALL CONTACT DAVE KECK, PUBLIC WORKS ADMINISTRATOR, AT (505) 334-4530 PRIOR TO THE START OF CONSTRUCTION TO DETERMINE WHICH OF THE EXISTING PERMANENT SIGNS (THAT ARE SLATED TO BE REPLACED) WILL BE SALVAGED BY THE COUNTY. THE CONTRACTOR WILL BE REQUIRED TO DELIVER THOSE SIGNS TO THE COUNTY YARD. ALL OTHER SIGNS, POSTS AND SIGN BASES WILL BE DISPOSED OF BY THE CONTRACTOR. ANY COSTS ASSOCIATED WITH THIS ACTIVITY SHALL BE CONSIDERED INCIDENTAL TO THE COMPLETION OF THE PROJECT.

- 5. PROTECTION OF SURVEY MONUMENTS: THE CONTRACTOR SHALL TAKE PRECAUTIONS TO PROTECT HORIZONTAL AND VERTICAL CONTROL SURVEY MONUMENTS (MARKS) FROM DAMAGE PRIOR TO INITIATING CONSTRUCTION. AN INVENTORY OF THE EXISTING MONUMENTS WILL BE TAKEN BY THE ENGINEER AND THE CONTRACTOR WITH ACKNOWLEGOMENTS FROM TO START OF CONSTRUCTION. IF, DURING THE COURSE OF CONSTRUCTION OPERATIONS, THE CONTRACTOR DISTURBS OR DESTROYS A MARK, THE CONTRACTOR SHALL ESTABLISH A NEW MARK IN COMPLIANCE WITH THE STANDARDS AND PROCEDURES SET FORTH IN THE "GEODETIC MARK PRESERVATION GUIDEBOOK: NATIONAL GEODETIC SURVEY, MARCH 1939. CONTACT: NOS MARK PRESERVATION CENTER NOA., TELEPHONE (SOS)768—3606. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE COMPLETION OF THE PROJECT AND NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE THEREFOR.
- 6. PUBLIC ACCESS TO LOCAL BUSINESSES AND RESIDENCES: THE CONTRACTOR SHALL PROVIDE INGRESS AND GERES TO LOCAL BUSINESSES AND RESIDENCES FOR THE DURATION OF THE PROJECT. THE CONTRACTOR SHALL ADVISE THE PROPERTY OWNERS AND THE PROJECT MANAGER OF ANY SCHEDULED ACCESS MODIFICATIONS, AT LEAST 24 HOURS IN ADVANCE. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE COMPLETION OF THE PROJECT AND NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE THEREFOR.
- 7. CLEANING OF EXISTING STRUCTURES: THE CONTRACTOR SHALL CLEAN ALL EXISTING STRUCTURES THAT ARE TO REMAIN OPERATIONAL. STRUCTURES SHALL BE CLEAN AT THE TIME OF FINAL PROJECT ACCEPTANCE. THIS WORK WILL BE CONSIDERED INCIDENTAL TO THE COMPLETION OF THE PROJECT AND NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE THEREFOR.
- 8. CONTRACTOR'S RESPONSIBILITY: THE CONTRACTOR IS RESPONSIBLE FOR MAKING THE NECESSARY ADJUSTMENTS IN THE EQUIPMENT OR OPERATION FOR COMPACTION REQUIREMENTS AND SURFACING REMOVALS SO THAT UNDERGROUND UTILITIES AND PERMANENT STRUCTURES ARE NOT DAMAGED.

- 9. PUBLIC AWARENESS: THROUGHOUT THE LIFE OF THIS PROJECT, THE CONTRACTOR SHALL BE RESPONSIBLE TO KEEP THE ENGINEER AND DAVE KECK, PUBLIC WORKS ADMINISTRATOR (PHONE: 505-334-4530, E-MAIL: DKECK@SJCOUNTY.NET) INFORMED OF ANY LANE CLOSURES THAT WILL RESTRICT THE NORMAL FLOW OF TRAFFIC. ALL INFORMATION REGARDING CONSTRUCTION ACTIVITIES THAT AFFECT TRAFFIC SHALL BE PROVIDED TO MR. KECK. THERE WILL BE NO DIRECT MEASUREMENT OR PAYMENT FOR THE WORK DESCRIBED HEREIN. ALL WORK WILL BE CONSIDERED INCIDENTAL TO ITEM 618000 - "MOBILIZATON"
- 10. CONTRACTOR COORDINATION WITH UTILITIES: TWO WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR SHALL CONTACT LOCAL UTILITY COMPANIES FOR THE LOCATING OF EXISTING UTILITIES. THE LOCATIONS OF UNDERGROUND UTILITIES SHOWN IN THE PLANS ARE APPROXIMATE ONLY. IN ADDITION, THE CONTRACTOR IS ADVISED THAT UTILITIES MAY EXIST THAT ARE NOT SHOWN IN THE PLANS. THE FOLLOWING UTILITY CONTACTS ARE PROVIDED FOR THE INFORMATION OF THE CONTRACTOR:

 SACRED WIND COMMUNICATIONS LYNELL WIDNER, 505—905—6074
- 11. WATER PROVISION: IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO SECURE AND SUPPLY WATER FOR THE PROJECT. THE COST WILL BE INCIDENTAL TO COMPLETION OF THE PROJECT AND NO SEPARATE PAYMENT WILL BE MADE THEREFOR.
- 12. CONSTRUCTION PHASING & TRAFFIC CONTROL PLAN: A CONSTRUCTION PHASING PLAN HAS BEEN DEVELOPED AND CORRESPONDING TRAFFIC CONTROL MEASURES HAVE BEEN IDENTIFIED AND INCLUDED IN THE PLANS. CONSTRUCTION DURATIONS AND CONTRACT QUANTITIES ARE BASED ON THE INFORMATION PRESENTED IN THE PLANS. THE CONTRACTOR MAY, AT HIS/HER OWN EMPENSE, DEVELOP AN ALTERNATIVE CONSTRUCTION PHASING PLAN ALONG WITH ALTERNATIVE TRAFFIC CONTROL MEASURES AND SUBMIT IT TO THE COUNTY FOR REVIEW AND APPROVAL NOT LESS THAN TWO WEEKS PRIOR TO THE START OF ANY CONSTRUCTION. THE PLAN SHALL BE PREPARED IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (LATEST EDITION). THE CONTRACTOR SHALL SUBMIT THREE COPIES OF THE PLAN, EACH BEARING THE ORIGINAL STAMP AND ORIGINAL SIGNATURE OF A NEW MEXICO REGISTERED PROFESSIONAL ENGINEER COMPETENT IN THE DESIGN OF CONSTRUCTION TRAFFIC CONTROL PLANS. THE CONTRACTOR IS ADVISED THAT THE COUNTY IS UNDER NO OBLICATION TO APPROVE AN ALTERNATIVE CONSTRUCTION PLANS.
- 13. SIGNS: ALL SIGNS PLACED ON THIS PROJECT SHALL BE COATED WITH ANTI-GRAFFITI COATING. THIS WILL BE CONSIDERED INCIDENTAL TO THE SIGNS AND NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE THEREFOR.
- 14. <u>WEATHERING STEEL FOR GUARDRAIL:</u> STEEL ELEMENTS INSTALLED PURSUANT TO WORK COMPLETED UNDER THE FOLLOWING ITEMS SHALL BE FABRICATED FROM WEATHERING STEEL:

THERING STEEL: ITEM NO. 606050 — METAL BARRIER END TERMINAL

ITEM NO. 606100 - METAL BARRIER END TERMINAL (ANCHORAGE) TYPE A

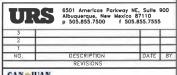
ITEM NO. 606200 - WEATHERING METAL BARRIER W-BEAM ITEM NO. 606300 - WEATHERING METAL BARRIER THRIE BEAM

INCIDENTAL ITEMS

THE FOLLOWING IS LIST OF INCIDENTAL ITEMS THAT PROVIDES ONLY A GENERAL DESCRIPTION OF THE REQUIRED WORK AND MATERIALS, AND MAY OR MAY NOT BE COMPLETE. THIS LIST DOES NOT INCLUDE ANY INCIDENTAL WORK OR MATERIALS REQUIRED BY SPECIAL PROVISIONS, SERIAL (STANDARD DETAIL) DRAWINGS, SUPPLEMENTAL SPECIFICATIONS, OR THE STANDARD SPECIFICATIONS. THESE ITEMS ARE ALL CONSIDERED INCIDENTAL TO THE WORK AND NO ADDITIONAL MEASUREMENT OR PAYMENT WILL APPLY.

- 1. SAFETY DESIGN AND SHIELDING OF EQUIPMENT AND MATERIALS.
- 2. SALVAGING MATERIALS.
- 3. PROTECTION OF SURVEY MONUMENTS.
- 4. MAINTAINING PUBLIC ACCESS.
- 5. PUBLIC AWARENESS.
- 6. ANTI-GRAFFITI COATING OF SIGNS
- 7. FLAGGING, AS NEEDED.
- 8. DEVELOPMENT OF ALTERNATIVE CONSTRUCTION PHASING AND/OR TRAFFIC CONTROL PLANS
- 9. TESTING.
- 10. REMOVAL OF GRAFFITI DURING CONSTRUCTION.
- 11. SETTING OR RESETTING OF TRAFFIC CONTROL DEVICES.
- 12. RESTORATION OF STAGING AREAS.
- 13. SIGNING HARDWARE.
- 14. ELECTRICAL SERVICE.
- 15. TEMPORARY FENCING OF CULTURAL RESOURCE SITES, IF ANY ARE ENCOUNTERED, IN ACCORDANCE WITH NOTE 1 ON SHEET 1-5.
- REMOVAL OF UNOCCUPIED NESTS AND INSTALLATION OF WIRE MESH IN ACCORDANCE NOTE 2 ON SHEET 1-5.
- 17. PROTECTION OF WETLANDS IN ACCORDANCE WITH NOTE 4 ON SHEET 1-5.







SAN JUAN COUNTY Public Works Department

MILITARY BRIDGE REPLACEMENT CR 7150 OVER GALLEGOS WASH BRIDGE NO. 9586

GENERAL NOTES

CLASS 'A' SEEDING SPECIFICATIONS

A. ERODIBLE SURFACE AREA
ALL REQUIREMENTS OUTLINED IN THE FEDERAL ENVIRONMENTAL PROTECTION AGENCY ALL RUDDISAMENTS DULUTANED IN IN FLUBERAL ENVIRONMENTAL PROTECTION AGENCY (CPS.) MADDISAME DULUTANE DISCHARGE LEMMATION STREEM (MPOES) AND THE NEW CONSTRUCTION OF THE COURSE OF CONSTRUCTION THIS PROJECT. EXPOSED AREAS OF DISTURBANCHMENT OF THE DISCHARGE OF THE CONSTRUCTION AND SHALL BE PROTECTED BY AN APPLICATION OF TEMPORARY SOIL STREAMENT AND SHALL BE PROTECTED BY APPLICATION OF TEMPORARY SOIL STREAMENT AS STATED BELOW AND ANY OTHER SCHOLEN OF THE PROJECT OF THE STREAMENT AGENCY AND SHALL BE PROTECTED BY THE PROJECT OF THE STREAM APPLICATION OF TEMPORARY SOIL STREAMENT AS STATED BELOW AND ANY OTHER SCHOLEN OF THE PROJECT OF THE STREAMENT AGENCY AS A POPULO.

B. TEMPORARY SOIL STABILANT
A TEMPORARY SOIL STABILANT SHALL BE APPLIED TO ALL EXPOSED SOIL AREAS WHICH
A TEMPORARY SOIL STABILANT SHALL BE APPLIED TO ALL EXPOSED SOIL AREAS WHICH
ARE NOT BEING ACTIVELY WORKED. A HYDROSEEDER SHALL BE KEPT PRADILY AVAILABLE
ON THE PROJECT SITE TO PERFORM THIS WORK, THE SOIL STABILIZING SUBSTANCE
SHALL BE FUNHAGO BADIERT TACKVIER BY NORTHSTAR HERYEX CORP OR AN APPROVED
SHALL BE WANNEAGUER TACKVIER BY NORTHSTAR HERY CORP OR AN APPROVED
THE PRODUCT AND WHICH WILL DISAPPEAR FROM THE SUBJECT WORM APPLICATION OF
THE PRODUCT AND WHICH WILL DISAPPEAR FROM THE SUBJECT WORM APPLICATION OF
THE PRODUCT SHALL SIZE
FOLLOWED INCLUDING A MINIMUM APPLICATION RATE AS PER THE "CERTIFICATIONS"
SCENTIM AGENTUM.

SECTION (BELOW).

C REMANDENT MEASURES
PRIOR TO COMMENCING THE SECOND OPERATION, THE PROJECT MANAGER, LANDSCAPE
ARCHIECT, AND SECOND CONTRACTOR'S REPRESENTATIVE SHALL REVIEW AREAS TO BE
REALED TO DETERMINE THE APPROPRIATE CLASS OF SECOND AND TO INSURE THAT
SLOPES HAVE BELLY PROPERLY CONSTRUCTED, SECOND COUPHENT SHALL ALSO BE
INSPECTED DURING THIS FERIOD TO INSURE PROPER OPERATION. ANY WORK DONE
SHOPES HAVE BELLY PROPERTY ON SECOND OF SECOND AND ANY WORK DONE
SECOND SHALL BE AS DIRECTED ALL BE ELECTED. ALL DETURBED AREAS TO BE
SECOND SHALL BE AS DIRECTED AND THE ANY OF SHALL BE ASSOCIATED. TANGAND
SECOND SHALL BE AS DIRECTED FROM THIS PROJECT.
SLOPES LESS THAN 3:1 IN GRADE SHALL BE TREATED WITH CLASS 'A' SEEDING AS
BELLOW, SLOPES STEPER THAN 3:1 IN GRADE SHALL BE TREATED WITH CLASS 'C'
SEDION OF SECOND SECOND SHALL BE TREATED WITH CLASS 'C'
SEDION OF SECOND SECOND SHALL BE TREATED WITH CLASS 'C'
SEDION OF SECOND SECOND SHALL BE TREATED WITH CLASS 'C'
SEDION OF SECOND SECOND SHALL BE TREATED WITH CLASS 'C'
SEDION OF SECOND SECOND SHALL BE TREATED WITH CLASS 'C'
SEDION OF SECOND SECOND SHALL BE TREATED WITH CLASS 'C'
SEDION OF SECOND SECOND SHALL BE TREATED WITH CLASS 'C'
SEDION OF SECOND SHALL BE TREATED WITH CLASS 'C'
SEDION OF SECOND SHALL BE TREATED WITH THE SECOND AND MUCH
MAKING CONTACT WITH THE SOIL SHALL BE REMOVED. DORMANT COOL-SEASON
ORASSES HAVE BEEN ADDED TO THIS SPECIFICATION. THERE ARE NO RESTRICTIONS AS
TO SECOND IN ARREST DE SECOND SHALL BE TREATED WITH THE GROUND
IS FROZEN.

CLASS. 'S' SECUNC

IN ADDITION OF HE STANDARD SEED BED PREPARATION REQUIRED AS PER HADOT
2007 EDITION OF HERSTANDARD SEC. 632.3.3. ADDITIONAL SEED BED PREPARATION IS TO
BE PERFORMED BY HAMO-DANKING OR CHAMM-HARMOWING I' OF COMPOST MULCH AS
DEFINED IN SEC. 832.2.5 NOT THE 4" SECURED BRIDE PREPARATION FOR ORGALISCEMEN.

FERTILIZER TREATMENT SHALL CONSIST OF DISKING INTO THE PREPARED SECORED A GRANULAR APPLICATION OF MYCOAPPLY ENDO CONTAINING GLOWUS HTRARROICES. GLOWUS AGGREGATUM GLOWUS TUNICATUM AND GLOWUS MOSSEAE AT A RATE OF 60,000 PROPAGULES PER POUND AS MANFACTURED BY MYCORRHIZAL APPLICATIONS, DIC., OF GRANTS PASS ORGEON (S41-478-2995), OR APPROVED GLOWAL IT SHALL BE APPLIED AT A RATE OF 15 LBS PER ACRE ONLY TO AREAS TO BE REVEGETATED.

BARLEY STRAW MULCH SHALL BE APPLIED AT A RATE OF 2 TONS PER ACRE AND SHALL BE MECHANICALLY ANCHORED (CRIMPED) STRAW IS TO BE FROM A CERTIFIED WEED-FREE SOURCE WITH CERTIFICATION FROM A RECOGNIZED CERTIFICATION

ALL SEEDED AREAS SHALL BE MULCHED THE SAME DAY THEY ARE SEEDED. ANY SEEDED AREAS NOT MULCHED THE SAME DAY SHALL BE REJECTED AND RESEEDED AND NO EXTRA PAYMENT SHALL BE MADE THEREFOR.

MULCH ANCHORING TACKIFIER FOR CLASS 'A' SEEDING IS TO BE PLANTAGO BINDER TACKIFIER BY NORTHSTAR IMPEX CORP. OR APPROVED EQUAL. TACKIFIER IS TO BE APPLIED AS AN OVERSPRAY AFTER SEED AND MULCH ARE IN PLACE, TACK SHALL BE APPLIED ACCORDING TO MANUFACTURERS RECOMMENDATIONS AND AT A SUFFICIENT RATE SO AS TO PREVENT MULCH FROM MOVING DUE TO WINDS OR TURBULENCE CREATED BY TRAFFIC ON THE ROADWAY, AREAS WHERE MULCH FAILS TO ADHERE SHALL REMULCHED AND TACKED AND NO EXTRA PAYMENT SHALL BE MADE THEREFOR.

CONTRACTORS' CAMPSITES, STOCKPILE AREAS AND ANY OTHER NONDESIGNATED HAUL ROAD OR DISTURBED AREA SHALL BE TREATED WITH CLASS "A" SEEDING AND NO MEASURMEMENT OR PAYMENT WILL BE MADE THEREFOR.

CLASS 'A' REQUIRED CERTIFICATIONS

1. TACKIFIER FOR USE AS TEMPORARY SOIL STABILANT OR FOR ANCHORING STRAW MULCH SHALL BE USED AT A RATE OF 200 LB PER ACRE FOR EACH APPLICATION FEVET, USED BASS WILL BE PRODUCED AND VERNIED FOR CREMITCATION. FOR ADDITIONAL VERIFICATION PURPOSES THE PROJECT MANAGER MUST BE NOTIFIED SO THAT HIS STAFF MAY BE PRESENT WANN BAGS ARE LOADED INTO THE HYDRO

2. COMPOST MULCH WILL BE USED AT A RATE OF 134 CUBIC YARDS PER ACRE. CERTIFICATION MUST BE PROVIDED THAT THE SOURCE IS A MIMODI-CERTIFIED COMPOST PRODUCER AND IS ON OUR APPROVED FROOLETS LIST, BILLS OF LANDIG FROM SAID CERTIFIED COMPOST PRODUCER MUST BE AN INKED DRIGINAL INDICATING THE PROJECT COMPOST, NOMBER, THE DATE, AND THE YOUNGE IN CUBIC YARDS OF THAT SHIPMONT, AN ORAYMETRIC MOISTURE RECAING MUST BE PROVIDED DATED NOT MORE THAN A MONTH PROVIDED FROM THE TIME OF DELIVERY KERTIFING THAT THE COMPOST MOSTURE OF THE THE OF DELIVERY KERTIFING THAT THE COMPOST MOSTURE OF MOISTURE OF MOIST

3. SEED CERTIFICATION SHALL BE AS PER NUMBER OF SPECIFICATIONS SECTION 632.2.1.
ON-SITE SEED SAMPLING & TESTING MAY BE DONE AT THE DISCRETION OF THE NUMBER.
ALL SEED CERTIFICATES FROM SEED SUPPLIER MUST BE PROVIDED TO PROJECT MANAGER BEFORE SEEDING COMMENCES.

4. STRAW SHALL BE USED AT A RATE OF 2 TONS (4,000 LBS) PER ACRE. WEIGHMASTER TICKETS SHALL BE PRODUCED AS CERTIFICATION THE CORRECT AMOUNT OF MULCH HAS BEEN BELYBERD.

5. FERTILIZER CERTIFICATION SHALL INCLUDE DOCUMENTATION OF POUNDS PER THE TOTAL ACREAGE OF THE PROJECT REQUIRED AND ALL LABELS OF CONTAINERS OF MATERIAL USED, FOR VERIFICATION PURPOSES THE PROJECT MANAGER SHALL BE NOTIFIED WHEN BAGS ARE LOADED INTO THE HYDROMULCH EQUIPMENT.

CLASS 'A' SEED MIX

ROCKY MT. PENSTEMON

*PURE LIVE SEED

(CERTIFIED SEED OF NAMED VARIET	RIES ARE REQUIRED IF AVAILABLE) BOTANICAL MAME BOUTELOUA GRACILIS VAR. ALMA BOUTELOUA CREATER VAR. VAUGHN BOUTELOUA ARISTIDIODIES BOUTELOUA ARISTIDIODIES BOUTELOUA CRIPPONDA AGROPYRON SMITHII PASTURA ATRIPIEK CAMPSCEMS ATRIPIEK CAMPSCEMS	
COMMON NAME	BOTANICAL NAME LBS OF	DI SE /ACDE
BLUE GRAMA	BOUTELOUA GRACILIS VAR ALMA	D SO
SIDEOATS GRAMA	BOUTELOUA CURTIPENDULA VAR VALIGHN	0.50
NEEDLE GRAMA	BOUTEI OUA ARISTIDOIDES	0.30
BLACK GRAMA	ROLLTELOUIA ERIOPODA	0.75
WESTERN WHEATGRASS	AGROPYRON SMITHIL	0.23
LITTLE BLUESTEM	SCHIZACHYBIUM SCOPARIUM VAR	0.75
	PASTLIPA	0.73
FOUR-WING SALTBUSH	PASTURA ATRIPLEX CANESCENS	0.75
		0.75
APACHE PLUME	FALLUGIA PARADOXA PLEURAPHIS JAMESII VAR. VIVA ACHNATHERUM HYMENOIDES VAR	0.15
GALLETA	PLEURAPHIS JAMESII VAR. VIVA	0.75
INDIAN RICEGRASS	ACHNATHERUM HYMENOIDES VAR	0.75
	PALOMA	0.70
WINTERFAT	PALOMA Krascheninninkovia lanata	0.75
OATS	AVENA SATIVA TRITICUM AESTIVUM X SECALE CEREALE'QUICKGUARD'	3.00
STERILE TRITICALE	TRITICUM AESTIVUM X SECALE	3.00
	CEREALE'QUICKGUARD'	
ALKALI SACATON	SPOROBOLUS AIROIDES	0.15
SAND DROPSEED	SPOROBOLUS CRYPTANDRUS	0.05
WHITE PRAIRIE CLOVER	DALEA CANDIDA	0.10
PALMER PENSTEMON	SPOROBOLUS AIROIDES SPOROBOLUS CRYPTANDRUS DALEA CAMDIDA PENSTEMON PALMERI ACHILEA MILEFOLIUM RADIDA COLUMNIFERA LINUM LEWISII	0.25
COMMON YARROW	ACHILLEA MILLEFOLIUM	0.25
MEXICAN HAT	RATIBIDA COLUMNIFERA	0.10
BLUE FLAX	LINUM LEWISII	0.10

PENSTEMON STRICTUS

CONTRACTORS WARRANTY OF WORK

A 45 DAY INSPECTION OF STRAW MULCH TREATMENT FOLLOWING COMPLETION OF APPLICATION MUST INDICATE A MINIMUM OF 85% OF THE STRAW MULCH STILL IN PLACE. AREA NOT MEETING THIS PERCENTAGE MUST BE REMULCHED AND TACKIFIER APPLIED TO MEET THE 85% STANDARD.

ANY PROPOSED CHANGES OR MODIFICATIONS TO THIS PLAN SHALL BE DISCUSSED WITH THE LANDSCAPE ARCHITECT PRIOR TO MAKING SUCH CHANGES OR MODIFICATIONS.

CONTACT: NMDOT LANDSCAPE ARCHITECT WILLIAM S. HUTCHINSON.

APE AR

TOTAL 13.75

8501 Americas Parkway NE, Sulta 900 Albuquerque, New Mexico 87110 p 505.855.7500 1 505.855.7555 SAN JUAN SAN JUAN COUNTY Public Works Department COUNTY MILITARY BRIDGE REPLACEMENT CR 7150 OVER GALLEGOS WASH GENERAL NOTES

CLASS 'A' SEEDING

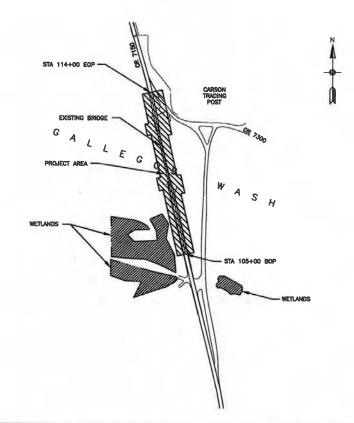
- 1. NON-VIBRATORY EQUIPMENT AND PRACTICES SHALL BE USED WITHIN 100 FEET OF THE THREE HISTORIC BUILDINGS ASSOCIATED WITH THE CARSON TRADING POST AND ONE HISTORIC STRUCTURE DEEMED ELUBBLE, OR POTENTIALLY ELIBIBLE, TO THE NATIONAL REGISTER OF HISTORIC PLACES. ANY WORK IN GALLEOOS WASH (DETOUR, EQUIPMENT OPERATION) SHALL AVOID IMPACTING THE POTENTIALLY HISTORIC, AND STILL FUNCTIONING, CONCRETE WELL-WATER SUPPLY STRUCTURE LOCATED APPROXIMATELY BE FEET EAST OF THE BRIDGE WITHIN THE WASH. IF BURICD CULTURAL MATERIALS ARE EXPOSED DURING CONSTRUCTION, ALL WORK SHALL CASE IMPEDIATELY AND NUMBER THE NEW MEMOLO STATE HISTORIC PRESERVATION OFFICER, AND THE NAVAJO NATION TRIBAL HISTORIC PRESERVATION OFFICER, AND THE NAVAJO NATION TRIBAL HISTORIC PRESERVATION
- 2.CONSTRUCTION ACTIVITIES ARE SCHEDULED TO OCCUR OUTSIDE THE REQULAR BIRD NESTING AND BAT ROOSTING STASON (APRIL 15 THROUGH AUGUST 15), THUS AVOIDING IMPACTS TO MIGRATORY BIRDS OF SENSITIVE BIRD AND BAT SPECIES, AND AVOIDING IMPACTS TO REMOVE UNOCCUPIED NESTS OR INSTALL NETTING AS DESCRIBED BELOW. IF THE CONSTRUCTION SCHEDULE IS ALTERED TO INCLUDE WORK BEGINNING WITHIN THIS TIMETRAME, A QUALIFIED BIOLOGIST SHALL CONDUCT PRE-CONSTRUCTION BIRD AND BAT SURVEYS UNDERREATH THE BRIDGS. ANY UNOCCUPIED INSTS ON THE UNDERSIDE OF THE BRIDGS SHALL BE REMOVED PRIOR TO THE NESTING SEASON, AND WIRE-MESH NETTING INSTALLED TO DISCOURAGE THE DEVELOPMENT OF THEW HESTS. ANY IMPACTS THAT ARE IDENTIFIED SHALL BE MITIGATED IN CONSULTATION WITH THE U.S FISH AND WILDLIFE
- 3.TO THE EXTENT POSSIBLE, CONSTRUCTION ROUTES AND STAGING AREAS SHOULD AVOID BURROWS AND GROUND SURFACE OBJECTS THAT MAY SERVE AS HABITAT FOR CALIFORNIA KINGSNAKE, A STATE-LISTED SENSITIVE SPECIES.
- 4. THE WETLANDS IN THE VICINITY OF THE PROJECT, AS SHOWN IN THE MAP ON THIS SHEET, SHALL BE COMPLETELY AVOIDED BY ALL CONSTRUCTION ACTIVITIES.
- 5.COMSTRUCTION WITHIN CALLEGOS WASH SHALL COMPLY WITH THE CLEAN WATER ACT SECTION 404 AND 40 FEMILITHIN PROCESSES AND FOLLOW ALL 404 AND 401 FEMILITHOR PROCESSES AND FOLLOW ALL 404 AND 401 FEMILITH AND FOLLOW THE CONDITIONS OUTLINED IN SECTION 404 MANIDONING PERMIT 14 FOR LINEAR TRANSPORTATION PROJECTS, AND NINED'S CONDITIONAL WATER GOALITY CERTIFICATION FOR FEMILIERIAL STREAMS, PRE-CONSTRUCTION AND REMOVAL OF ANY TEMPORARY DETOUR WITHIN GALLEGOS WASH SHALL ALSO FOLLOW 404 AND 401 FEMILIERIAL FRANCES.
- B.THE CONTRACTOR SHALL PREPARE AND IMPLEMENT A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND A TEMPORARY EROSION AND SEDMENT CONTROL PLAN (TESCP) IN COMPLIANCE WITH SECTION 402 OF THE CLEAN WATER ACT. BEST MANAGEMENT PRACTICES (BMP3) SHALL BE INSTALLED AND MAINTAINED BOTH DURING AND AFTER CONSTRUCTION TO PREVENT, OT THE EXTENT PRACTICABLE, POLLUTAINS IN STORM WATER CONTROL OF THE CONTROL PROCTORIES. AS THE CONSTRUCTION TO LIGHT EROSION POTENTIAL.
- 7.THE CONTRACTOR SHALL MINIMIZE VEGETATION AND SOIL DISTURBANCE FOR ALL LOCATIONS WHERE EQUIPMENT WILL BE PARKED DURING CONSTRUCTION, AND THE CONTRACTOR SHALL ACQUIRE ENVIRONMENTAL AND CULTURAL RESOURCES CLEARANCES FOR THESE SITES IN ACCORDANCE WITH SECTION 107.14 OF THE 2007 EDITION OF THE NIMOT STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTIONS.
- 8.TO REDUCE THE SPREAD OF NOXIOUS WEEDS, THE CONTRACTOR SHALL CLEAN EQUIPMENT BEFORE AND AFTER USE. ALL DISTURBED AREAS SHALL BE RESEEDED ACCORDING TO STANDARD NINDOT PROTOCOL AND ACCORDING TO THE REVEGETATION PLAN, WHICH IS DETAILED IN THESE CONSTRUCTION PLANS.
- 9.SIBERIAN ELM, SALT CEDAR, AND CHEATGRASS, ALL OF WHICH ARE STATE-LISTED CLASS C NOXIOUS WEEDS IDENTIFIED WHITHIN THE PROJECT AREA, SHALL BE CONTROLLED ACCORDING TO THE LOCAL AGENCY'S DISCRETION.
- 10. BRIDGE 8105 IS COATED WITH A LEAD BASED PAINT. THE CONTRACTOR SHALL EMPLOY THE SERVICES OF A QUALIFICE LEAD-BASED PAINT ABATEMENT FIRM. WORKING IN COORDINATION WITH THE BRIDGE DEMOLITION TEAM, THE ABATEMENT CONTRACTOR SHALL REMOVE ONLY THE PAINT AND PRIME COAT REQUIRED TO SAFELY DISMANTLE THE STRUCTURE IN ACCORDANCE WITH SPECIFICATION 547.3. THE STELL MEMBERS SHALL BE DISPOSED OF ACCORDANCE WITH SPECIFICATION 547.3. THE STELL MEMBERS SHALL BE

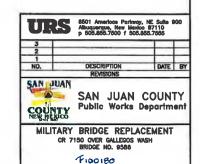
NMDOT ENVIRONMENTAL BUREAU MANAGER

CHECKED BY:

DESIGNED BY:

DRAWN BY:





ENVIRONMENTAL COMMITMENTS

Callente Canyon (Vermejo River to headwaters)

NOI INPUTS CN F100180	
NMDOT PROJECTS REQUIRE ELECTRONIC NOI SUBM	ISSION- PAPER SUBMISSION REQUIRES PRIOR APPROVAL.
PERMIT NUMBER: NMR12000 STATE OF NEW MEXICO, EXCEPT INDIAN NMR120001 INDIAN COUNTRY WITHIN THE STATE OF RESERVATION LANDS THAT ARE COVERED UNDER A UTE MOUNTAIN RESERVATION LANDS THAT ARE COV PERMIT COR100001.	NEW MEXICO, EXCEPT NAVAJO RIZONA PERMIT AZ100001 AND
OPERATOR INFORMATION: SEE DISTRICT ADDRESSE	S, THIS SHEET
IRS EMPLOYER IDENTIFICATION NUMBER (EIN): NMDC	DT: 35 - 6000581
POINT OF CONTACT: DISTRICT PROJECT MANAGER	
NOI PREPARED BY: DISTRICT PROJECT MANAGER	
PROJECT / SITE NAME: NMDOT CONTROL NUMBER (C	N) F100180
PROJECT / SITE ADDRESS: CR 7150 OVER GALLEGOS	WASH, CARSON TRADING POST, NEW MEXICO
LATITUDE, BOP	36.456 DECIMAL DEGREES
LONGITUDE, BOP	-108.008 DECIMAL DEGREES
FEDERAL OPERATOR = "ANY DEPARTMENT, AGENCY,	OR INSTRUMENTALITY OF THE EXECUTIVE, LEGISLATIVE,
AND JUDICIAL BRANCHES OF THE FEDERAL GOVERNI	
ESTIMATED PROJECT START DATE	IANUARY 2014

ESTIMATED PROJECT COMPLETION DATE OCTOBER 2014 ESTIMATED AREA TO BE DISTURBED (NEAREST 1/4 ACRE) 2.5 ACRES COMMENCED EARTH-DISTURBING ACTIVITIES? PREVIOUS NPDES PERMIT? IF YES, PERMIT NO: MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4): SEE THIS SHEET FOR MS4 LOCATIONS.

SURFACE WATERS WITHIN 50 FT? YES\NO RECEIVING WATER GALLEGOS CANYON (SAN JUAN TO NAVAJO BOUNDARY) IMPAIRED WATERS: SEE MAP FOR 303D LISTING & TMDL LISTINGS ON THIS SWPPP INFORMATION SHEET, CHECK

SPECIFIC TMDL LIST HERE: ftp://ftp.nmenv.state.nm.us/www/swqb/WQMP-CPPAppendixB-May2011.pdf GALLEGOS CANYON (SAN JUAN TO NAVAJO BOUNDARY)

IMPAIRED WATERS METHOD: ONLINE CONSULTATION OF NEW MEXICO ENVIRONMENT DEPARTMENT LISTING OF OF STATEWIDE 303D AND TMDL IMPAIRMENTS.

TIER 2, TIER 2.5, TIER 3 WATERS - CONSULT 2012 CGP APPENDIX "F"

CHEMICAL TREATMENT INFORMATION - TYPICAL NMDOT PROJECT WILL NOT UTILIZE THESE CHEMICALS.

SWPPP CONTACT INFORMATION - DISTRICT PROJECT MANAGER (DISTRICT 5)

ENDANGERED SPECIES CRITERIA (A, B, C, D, E, or F): A
BRIEF SUMMARY FOR THE BASIS FOR CRITERION SELECTION: Project will have no effect on Federal or State listed species

ARCHEOLOGICAL SURVEY PLAN PROJECT WILL INDICATE EXISTANCE OF HISTORIC PROPERTIES. IF HISTORIC PROPERTIES EXIST, SHEETS CAN SHOW NO EFFECT ON HISTORIC PROPERTIES.

WILL ANY STORMWATER CONTROLS REQUIRE SUBSURFACE DISTURBANCE? NO

CERTIFICATION: NOI MUST BE CERTIFIED BY "A PRINCIPAL EXECUTIVE OFFICER OR RANKING ELECTED OFFICIAL"

SWPPP INPUTS

DRAINAGE PATTERNS	REFER TO PLAN AND PROFILE SHEETS
APPROXIMATE SLOPES AFTER MAJOR GRADING	3H:1V
RAINFALL 2-YEAR, 24-HOUR, inch	1.17 INCHES
2-YEAR, 1-HOUR, inch	0.63 INCHES
INTENSITY, FOR Tc = 10 minutes	1.84 INCH/HOUR
HYDROLOGICAL SOIL GROUP	'B' AND 'C'
CURVE NUMBER (CN), UNDISTURBED AREA	88
CURVE NUMBER (CN), DISTURBED AREA	89
RUNOFF COEFFICIENT, PRIOR TO CONSTRUCTION	0.60 (50% PVMT, 50% NATURAL)
RUNOFF COEFFICIENT, DURING CONSTRUCTION	0.75 (75% PVMT, 25% NATURAL)
RUNOFF COEFFICIENT, AFTER CONSTRUCTION	0.75 (ADDED PVMT AREAS) 75% PVMT, 25% NATURAL

Cieneguilla Creek (Eagle Nest Lake to headwaters) Cimarron River (Canadian River to Cimarron Village) Cimarron River (Cimarron Village to Turkey Creek) Cimarron River (Turkey Creek to Eagle Nest Lake Coyote Creek (Mora River to Black Lake) Little Coyote Creek (Black lake to headwaters) Middle Ponil Creek (South Ponil Creek to headwaters Mora River (USGS gage east of Shoemaker to Hwy 434) Mora River (Hwy 434 to headwaters) Moreno Creek (Eagle Nest Lake to headwaters) North Ponii Creek (South Ponil Creek to McCrystal Creek) Ponil Creek (Cimarron River to confluence of North and South Ponil) Ponil Creek (Cimarron River to US 64) Ponil Creek (Us 64 to confl of North and South Ponil) Rayado Creek (Miami Lake Diversion to headwaters) Rayado Creek (Cimarron River to Miami Lake Diversion) Sapello River (Mora River to Manuelitas Creek) Sixmile Creek (Eagle Nest Lake to headwaters) South Ponil Creek (Ponil Creek to Middle Ponil) Ute Creek (Cirnarron River to headwaters) Vermejo River (Rail Canyon to York Canyon) Vermelo River (York Canyon to headwaters) York Canyon (Vermejo Park to headwaters) Dry Cimarron River (perennial reaches OK bnd to Long Canyon) Dry Cimarron River (Long Canyon to Oak Creek) Long Canyon (perennial reaches above Dry Cimarron)
Oak Creek (Dry Cimarron to headwaters) Black Canyon Creek (East Fork Gila River to headwaters)
Canyon Creek (Middle Fork Gila River to headwaters) Centerfire Creek (San Francisco R to headwaters) Gila River (East Fork) Mangas Creek (Gila River to Mangas Springs Mogollon Creek (Perennial reaches aby USGS gage) Negrito Creek (South Fork) San Francisco River (Centerfire Creek to AZ border) Sanillo Creek (Gila River to Lake Roberts Taylor Creek (Beaver Creek to Wall Lake) Tularosa River (San Francisco R to Apache Creek) Whitewater Creek (San Francisco River to White-water Campurd) Rio Grande (International Mexico boundary to Leasburg Dam) Rio Grande (Leasburg Dam to Percha Dam) Abiquiu Creek (Rio Chama to headwaters) Cañones Creek (Abiquiu Reservoir to headwaters) Chavez Creek (Rio Brazos to headwaters) Poleo Creek (Rio Puerco de Charna to headwaters) Polyadera Creek (Canoñes Creek to headwaters) Rio Brazos (Rio Chama to Chavez Creek) Rio Chama (Rio Brazos to Little Willow Creek) Rio Chamita (Rio Chama to CO border) Rio Chamita (Rio Chama to CO border Rio Nutrias (Rio Chama to headwaters Rio Vallecitos (Rio Tusas to headwaters) Rito de Tierra Amarilla (Rio Chama to HWY 64) Santa Fe River (Cochiti Pueblo bnd to Santa Fe WWTP) Clear Creek (Rio de las Vacas to San Gregio Lake) Jemez River (Fast Fork) East Fork Jemez (East Fork Jemez to to headwaters) East Fork Jemez River (San Antonio Creek to VCNP boundary) Jemez River (HWY 4 near Jemez Springs to East Fork) Jemez River (Rio Guadalupe to HWY 4 nr Jemez Springs) Jemez River (Zia Pueblo bnd to Jemez Pueblo bnd) Jemez River (Jemez Pueblo bnd to Rio Guadalupe) Jemez River (Rio Guadalupe to Soda Dam nr Jemez Springs) emez River (Soda Dam nr Jemez Springs to East Fork) Redondo Creek (Sulphur Creek to headwaters) Jaramillo Creek (VCNP boundary to headwaters) Rio Cebolla (Fenton Lake to headwaters) Rio Cebolla (Rio de las Vacas to Fenton Lake) Rio de las Vacas (Rio Cebolla to Clear Creek)

Rio de las Vacas (Rio Cebolia to Rito de las Palomas) Rio Guadalupe (Jemez River to confl with Rio Cebolla Rito de las Palomas (Rio de las Vacas to headwaters) Rito Penas Negras (Rio de las Vacas to headwaters) San Antonio Creek (East Fork Jemez River to headwaters) San Antonio Creek (East Fork Jemez to VCNP bnd) Sulphur Creek (Redondo Creek to headwaters) Bluewater Creek (Bluewater Reservoir to headwaters) Bluewater Creek (non-tribal Rio San Jose to Bluewtaer Rsrv) La Jara Creek (perennial reaches above Arroyo San Jose) Rio Grande (non-Pueblo Alameda to Angostura Diversion) Rio Grande (Alameda Bridge to Santa Ana Pueblo bnd) Rio Grande (Isleta Pueblo boundary to Alameda Bridge) Rio Grande (Rio Puerco to Isleta Pueblo boundary) Rio Grande (San Marcial at USGS gage to Rio Puerco) Rio Moquino (Laguna Pueblo to Seboyettia Creek) Rio Puerco (Arroyo Chijuilla to Northern Boundary Cuba) Bitter Creek (Red River to headwaters) Comanche Creek (Costilla Creek to Little Costilla Creek) Cordova Creek (Costilla Creek to headwaters) Costilla Creek (diversion above Costilla to Comanche Creek) Embudo Creek (Rio Grande to Cañada de Ojo Sarco) Little Tesuque (Rio Tesuque to headwaters) Placer Creek (Red River to headwaters) Red River (Rio Grande to Placer Creek) Rio de los Pinos (Colorado border to headwaters) Rio Fernando de Taos (Rio Pueblo de Taos to headwaters) Rio Grande (non-pueblo Santa Clara to Embudo Creek) Rio Grande (Red River to NM-CO border Rio Grande del Rancho (Rio Pueblo de Taos to Hwy 518) Rio Hondo (Rio Grande to USFS boundary) Rio Hondo (South Fork of Rio Hondo to Lake Fork Creek) Rio Pueblo de Taos (Arroyo del Alamo to Rio Grande del Rancho) Rio Pueblo de Taos (Rio Grande del Rancho to Taos Pueblo bounadry) Rio Pueblo de Taos (Rio Grande to Arroyo del Alamo) Rio San Antonio (Montoya Canyon to headwaters) Rio Santa Barbara (Picuris Pueblo boundary to USFS bounadry) Bull Creek (Cow Creek to headwaters) Cow Creek (Bull Creek to headwaters) Cow Creek (Pecos River to Bull Creek) Gallinas River (Las Vegas diversion to headwaters) Pecos River (Alamitos Canyon to Willow Creek)
Pecos River (Cañon de Manzanita to Alamitos Canyon) Carrizo Creek (Rio Ruidoso to Mescalero Apache boundary) Rio Bonito (Angus Canyon to headwaters) Rio Hondo (Perennial Reaches Pecos to headwaters) Rio Ruidoso (Rio Bonito to US Highway 70) Rio Ruidoso (US Highway 70 Mescalero Apache boundary) Animas River (San Juan River to Estes Arroyo)
Gallegos Canyon (San Juan to Navajo Boundary) La Plata River (McDermott Arroyo to Colorado Border) La Plata River (San Juan River to McDermott Arroyo)

San Juan River (Navajo Boundary at Hogback to Animas River)

San Juan River (Animas River to Cañon Largo)





SAN JUAN COUNTY **Public Works Department**

MILITARY BRIDGE REPLACEMENT CR 7150 OVER GALLEGOS WASH BRIDGE NO. 9586

STORM WATER POLLUTION PREVENTION PLAN (SWPPP) INFORMATION

SHEET NO. 1-6

DRAWN BY CHECKED BY

STORM WATER POLLUTION PREVENTION PLAN INFORMATION

REGULATED SMALL MS4s IN NEW MEXICO

Doña Ana County Albuquerque Bernalillo Aztec Camuel Farmington Corrales Flora Vista Isleta Village Proper Kirtland Los Ranchos de Albuquerque San Juan County Rio Rancho Agua Fria Santa Ana Pueblo La Cienega Bernalillo County Santa Fe Sandoval County Tesuque Doña Ana Santa Fe County Las Cruces Anthony, TX Mesilla Santa Teresa University Park Sunland Park

IMPAIRED STREAMS IN NEW MEXICO

THE MAP BELOW SHOWS IMPAIRED WATERS LOCATIONS AS OF MARCH 2012. IF YOUR PROJECT IS ADJACENT OR NEAR TO AN IMPAIRED WATER, CONSULT THE NEW MEXICO ENVIRONMENT DEPARTMENT WEBSITE TO UTILIZE THEIR GIS MAPPING TOOL TO IDENTIFY THE IMPAIRMENT. EACH IMPAIRED STREAM LOCATION WILL IDENTIFY THE IMPAIRMENT WHEN THE "ID" TOOL IS USED BY CLICKING WITH THE MOUSE IS USED BY CLICKING WITH THE MOUSE ON A PARTICULAR IMPAIRED STREAM.

http://gis.nmenv.state.nm.us/EGIS/



GENERAL NOTES:

- 1. THE 2012 EDITION OF NMDOT NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) HANDBOOK AND SECTION 603 TEMPORARY EROSION AND SEDIMENT CONTROL OF THE 2007 NEW MEXICO DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION - SHALL BE USED AS MINIMUM REQUIREMENTS TO DEVELOP OR MODIFY THE STORM WATER POLLUTION
- 2. THE NPDES PERMIT NUMBER FOR THE PROJECT OR A COPY OF THE NOTICE OF INTENT (NOI), IF A PERMIT NUMBER HAS NOT YET BEEN ASSIGNED, SHALL BE POSTED AT THE PROJECT SITE OR THE FIELD OFFICE AT ALL TIMES DURING CONSTRUCTION
- 3. THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND ALL MAINTENANCE AND INSPECTION REPORTS SHALL BE SIGNED BY A QUALIFIED INSPECTOR ASSIGNED BY CONTRACTOR. THE SWPPP AND THE INSPECTION REPORTS SHALL BE AVAILABLE TO EPA REPRESENTATIVE AT ALL TIMES DURING CONSTRUCTION.
- 4. ALL DRAINAGE INFORMATION NEEDED TO COMPLETE THE NOTICE OF INTENT (NOI) ARE PROVIDED IN THIS PLAN,
- 5. BMPS SHOWN ON TESCM SHEETS LISTED ON SHEET 1-2 ARE DETERMINED USING THE EQUATIONS SHOWN ON THIS SHEET AND OTHER HYDROLIC MODELS AS SPECIFIED IN THE DEPARTMENTS DRAINAGE MANUALS LATEST EDITION, BMPS CONTROL SEDIMENT SO THAT NO ADDITIONAL SEDIMENT RESULTING FROM CONSTRUCTION ACTIVITIES DISCHARGE TO WATERWAYS.
- 6. THE CONTRACTOR SHALL SPECIFICALLY DEFINE ALL REQUIRED CONTROL MEASURES FOR EACH CONSTRUCTION PHASE, AND SHALL COMPLY WITH THE PROVISIONS OF THE NPDES MANUAL AND THE 2012 CONSTRUCTION GENERAL PERMIT
- 7. THE TESCM STANDARD SERIALS REFERENCED IN THESE PLANS PROVIDE A BASIS FOR ESTIMATING QUANTITIES.

DISTRICT ADDRESSES

DISTRICT 1 **DISTRICT 4**

2912 F. Pine St. Deming, NM 88030 Telephone: 575-544-6530 Toll Free: 800-444-0745 Fax: 575-546-0272

Box 10 Las Vegas, NM 87701-0010 Telephone: 505-454-3625 Toll Free: 800-234-7520

DISTRICT 2 DISTRICT 5

4505 W. Second P.O. Box 1457 Roswell, NM 88202-1457 Telephone: 576-637-7200 Toll Free: 800-432-7845

Box 4127, Coronado Santa Fe, NM 87502-4127 Telephone: 505-476-4200 Toll Free: 800-388-6630

DISTRICT 3

P.O. Box 91750 Albuquerque, NM 87199 Telephone: 505-841-2700 Toll Free: 866-466-8178 Fax: 505-841-2790

DISTRICT 6

P.O. Box 2160 Milan, NM 87021 Telephone: 505-285-3206 Toll Free: 800-361-3596

RUNOFF DISCHARGE & VOLUME CALCULATION:

THE FOLLOWING PROCEDURES SHOULD BE USED TO CALCULATE THE RUNOFF DISHARGE AND VOLUME TO DESIGN THE EROSION CONTROL MEASURES:

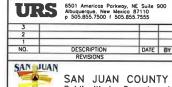
DISCHARGE: Q = CIA WHERE:

Q = DISCHARGE, cfs C = RUNOFF COEFFICIENT I = RAINFALL INTENSITY, in/hr A = AREA OF THE SITE acres

VOLUME: V = QT_C WHERE: V = VOLUME, ft³

T_C = (1/60) 0.0078 L^{0,77} S^{-0,385} minutes Assume T_C = 10 min. for basins within the project limits

L = LENGTH OF WATERSHED. ff S = SLOPE, ft / ft





Public Works Department

MILITARY BRIDGE REPLACEMENT CR 7150 OVER GALLEGOS WASH

STORM WATER POLLUTION PREVENTION PLAN (SWPPP) INFORMATION

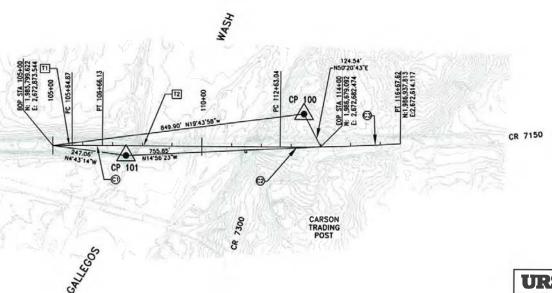
SHEET NO. 1-7

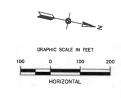
DESIGNED BY: DRAWN BY: CHECKED BY

TANGENT TABLE									
ID	DISTANCE	BEARING							
T1	64.87	N 12'39'30" W							
T2	596.90"	N 12'04'41" W							

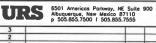
	С	URVE T	ABLE	
0	DELTA	RADIUS	TANGENT	ARC
(C)	01'34'49"	10000.00'	50.63	101.26
(3)	01'22'36"	5700.00"	68.49'	136.96
C3	02'41'24"	5700.00"	133.84'	267.62"

CONTROL POINT TABLE							
	NORTHING	EASTING	DESCRIPTION				
CP 100	1,986,599,615	2,672,586.590	ALUMINUM CAP				
CP 101	1,986,045.840	2,672,853.213	ALUMINUM CAP				





ESIGNED BY: DRAWN BY: CHECKED BY:



NO. DESCRIPTION REVISIONS

SAN JUAN

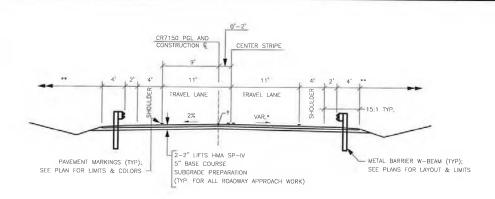
SAN JUAN

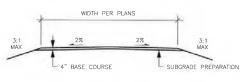
Public Wor

SAN JUAN COUNTY Public Works Department

MILITARY BRIDGE REPLACEMENT CR 7150 OVER GALLEGOS WASH BRIDGE NO. 9586

SURVEY CONTROL PLAN





TYPICAL SECTION - UNPAVED TURNOUT

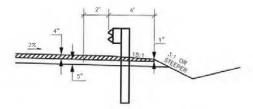
PROPOSED TYPICAL SECTION - CR7150

STA 106+25.00 TO STA 107+74 STA 111+60.50 TO STA 113+75.00

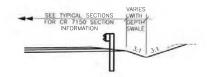
NOTES:

- * SEE ROADWAY PLANS AND CROSS SECTIONS FOR PAVEMENT CROSS SLOPE INFORMATION
- ** SEE CROSS SECTION FOR SIDE SLOPE DATA
- † APPLICATION POINT FOR PROFILE GRADE AND CROSS SLOPE ROTATION POINT

UNLESS OTHERWISE NOTED IN PLANS, DISTURBED AREAS SHALL BE SEEDED UPON COMPLETION OF WORK



DETAIL FOR PAVING TAPER AT GUARDRAIL



SECTION - CR7150 DRAINAGE SWALE

STA 111+67 RT TO STA 112+43 RT





SAN JUAN COUNTY
Public Works Department

MILITARY BRIDGE REPLACEMENT
CR 7150 OVER GALLEGOS WASH
BRIDGE NO. 9586

TYPICAL SECTIONS

SHEET NO. 1-9

ESIGNED BY: DRAWN BY: CHECKED BY:

Item No	Description	Units	Roadway	Bridge	Totals
201000	Clearing and Grubbing	LS	1		1 1
203000	Unclassified Excavation	CY	2,301		2,301
207000	Subgrade Preparation	SY	2,350		2,350
210000	Excavation & Backfill for Major Structures	CY		490	490
304000	Base Course	TON	580	100	580
407000	Asphalt Material For Tack Coat	TON	1.0		1.0
408100	Prime Coat Material	TON	4.0		4.0
423283	HMA SP IV Complete	TON	380		380
502084	Drilled Shaft Foundation 84" D	LF		205	205
505000	CSL Consultant Testing	EA		4	4
511030	Structural Concrete, Class A A	CY		168	168
512003	High Performance Concrete (HPD)	CY		500	500
518065	Prestressed Concrete Bridge Member, Type 63 MOD	LF		1406	1406
532100	Permanent Anti-Graffiti Protective Coating	SF		900	900
540060	Reinforcing Bars, Grade 60	LB		39000	39000
540160	Epoxy Coated Reinforcing Bars, Grade 60	LB		125460	125460
541000	Structural Steel for Concrete Bridges	LB		9000	9000
543002	Metal Railing, Type A42	LF		764	764
562000	Bridge Joint Strip Seal	LF		75	75
570024	24" Culvert Pipe	LF	161		161
570025	24" Culvert Pipe End Section	EA	2		2
601000	Removal of Structures & Obstructions	LS	0.1	0.9	1
602000	Riprap Class A	CY	2		2
602020	Riprap Class C	CY		1,713	1,713
603200	Silt Fence	LF	1,700		1,700
603250	Drop Inlet Protection Type 1	EA	1		1
603261	Mulch Sock	LF	50		50
603280	SWPPP Management	LS	1		1
604001	Geotextile Class I	SY		1,255	1,255
606050	Metal Barrier End Treatment	EA	4		4
606200	Weathering Metal Barrier W-Beam	LF	213		213
606300	Weathering Metal Barrier Thrie Beam	LF	100		100
606610	Temporary CWB Retained by the Contractor	LF	80		80
618000	Traffic Control Management	LS	1		1
621000	Mobilization	LS	0.1	0.9	1
623012	Median Drop Inlet Type I (Rural) 3' to 6'	EA	1		1
632000	Class A Seeding	AC	2.0		2.0
701000	Panel Signs	SF	57		57
701100	Steel Posts & Base Posts for Aluminum Panel Signs	LF	112		112
702000	Construction Signing	SF	266		266
702100	Posts for Construction Signing	LF	112		112
702238	Barricade, Type III 8'	EA	11		11
702525	Channelization Devices Type Drum	EA	36		36
704000	Retroreflective Painted Markings	LF	2,792		2,792
704099	Temporary Striping	LF	580		580
801000	Construction Staking by Contractor	LS	1		1
901000	Contractor Process Quality Control	LS	1		1

URS 6501 Americas Parkway, NE Suite 900 Albuquerque, New Mexico 87110 p 505.855.7500 (505.855.7555 NO.



SAN JUAN COUNTY Public Works Department

MILITARY BRIDGE REPLACEMENT CR 7150 OVER GALLEGOS WASH BRIDGE NO. 9586

SUMMARY OF QUANTITIES

SHEET NO. 1-10

DESIGNED BY: DRAWN BY: CHECKED BY:

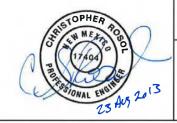
					average			average		2070	100	7	30-	4000			42	3270		407000	408100
					base course	average pavement	average pavement	base course	average subgrade	SUBGF PREPAR				COURSE				COMPLETE		BIT. MAT'L. FOR	PRIME COAT
STATION 1	O STATION	LT / RT	DESCRIPTION	LENGTH	width	width	thickness	thickness	width	AVG. WIDTH	AREA	AVG. WIDTH	DEPTH	VOLUME		AVG. WIDTH	DEPTH	VOLUME			
R 7150				(ft)	(ft)	(ft)	(in)	(in)	(ft)	(ft)	(sy)	(ft)	(in)	(cy)	(T)	(ft)	(in)	(cy)	(T)	(T)	(T)
105+75.00	106+25.00	LT	Full Depth	50.00	17.07	12.40	4.00	F 00	47.07	47.07											
105+75.00	106+25.00	RT	Full Depth	50.00		13.40	4.00	5.00	17.07	17.07	94.82	17.07	5.00	13.17	25.88	13.40	4.00	8.27	16.54	0.02	0.16
106+25.00	107+38.25	LT	The second secon		18.97	15.30	4.00	5.00	18.97	18.97	105.37	18.97	5.00	14.64	28.76	15.30	4.00	9.44	18.89	0.03	0.18
107+38.25	107+74.00	LT	Full Depth	113.25	18.67	15.00	4.00	5.00	18.67	18.67	234.89	18.67	5.00	32.62	64.11	15.00	4.00	20.97	41.94	0.06	0.41
107+36.23	107+74.00		Full Depth	35.75	17.67	14.00	4.00	5.00	17.67	17.67	70.18	17.67	5.00	9.75	19.15	14.00	4.00	6.18	12.36	0.02	0.12
111+60.50	111+98.75	RT	Full Depth	149.00	22.67	19.00	4.00	5.00	22.67	22.67	375.26	22.67	5.00	52.12	102.42	19.00	4.00	34.95	69.90	0.10	0.65
111+60.50		LT	Full Depth	38.25	17.67	14.00	4.00	5.00	17.67	17.67	75.08	17.67	5.00	10.43	20.49	14.00	4.00	6.61	13.22	0.02	0.13
	113+00.00	RT	Full Depth	139.50	22.67	19.00	4.00	5.00	22.67	22.67	351.34	22.67	5.00	48.80	95.89	19,00	4.00	32.72	65.44	0.10	0.61
111+98.75	113+60.00	LT	Full Depth	161.25	18.67	15.00	4.00	5.00	18.67	18.67	334.45	18.67	5.00	46.45	91.28	15.00	4.00	29.86	59.72	0.09	0.00
113+00.00	113+75.00	RT	Full Depth	75.00	19.17	15.50	4.00	5.00	19.17	19.17	159.73	19.17	5.00	22.18	43.59	15.50	4.00	14.35	28.70	0.04	0.28
113+60.00	113+75.00	LT	Full Depth	15.00	16.57	12.90	4.00	5.00	16.57	16.57	27.61	16.57	5.00	3.83	7.54	12.90	4.00	2.39	4.78	0.01	0.05
rnouts and Pa		3			Basecourse Taper Width	Pavement Taper Width, ft	Avg Pavement Thicknes, in	Avg Basecourse Thickness, in	Subgrade Prep Width, ft												
105+75.00	107+74.00	LT	TAPER	199.00	3.67	3.67	2.50	2.50	3.67	3.67	81.08	3.67	2.50	5.63	11.06	3.67	2.50	5.63	11.26	0.03	0.10
105+75.00	107+74.00	RT	TAPER	199.00	3.67	3.67	2.50	2.50	3.67	3.67	81.08	3.67	2.50	5.63	11.06	3.67	2.50	5.63	11.26	0.03	0.10
111+60.50	113+75.00	LT	TAPER	214.50	3.67	3.67	2.50	2.50	3.67	3.67	87.40	3.67	2.50	6.07	11.93	3.67	2.50	6.07	12.14	0.04	0.10
111+60.50	112+45.00	RT	TAPER	84.50	3.67	3.67	2.50	2.50	3.67	3.67	34.43	3.67	2.50	2.39	4.70	3.67	2.50	2.39	4.78	0.01	0.06
113+03.70	113+75.00	RT	TAPER	71.30	3.67	3.67	2.50	2.50	3.67	3.67	29.05	3.67	2.50	2.02	3.96	3.67	2.50	2.02	4.03	0.01	0.05
CR 7300 TURN	OUT	RT	UNPAVED TURNOUT	43.00	32.00	0.00	0.00	4.00	43.00	43.00	205.44	32.00	4.00	16.99	33.38	0.00	0.00	0.00	0.00	0.00	0.00
											2347.22				575.19				374.98	0.62	2.99
											2350				580				380	1	4
											(sy)				(T)				(T)	(T)	(T)

EART	HWORK QU	JANTITIES		
LOCATION	ITEM 203000 UNCLASSIFIED EXCAVATION (CY)	EMBANKMENT (INCIDENTAL) (CY)	FACTORED EMBANKMENT (X1.1) (CY)	EXCESS EXCAVATION (INCIDENTAL) (CY)
SOUTH ROADWAY APPROACH STA 105+00 TO STA 107+74	8	657	723	-715
NORTH ROADWAY APPROACH STA 111+61 TO STA 114+00	314	339	373	-59
SOUTH ABUTMENT RIPRAP PROTECTION (DIKE)	954	442	486	468
NORTH ABUTMENT RIPRAP PROTECTION (DIKE)	1025	62	68	957
TOTALS	2301	1500	1650	651

TOTALS	2301	1500	1650	6
			-	
NOTE: EXCESS EXCAVATION MATE	RIAL SHALL BECOME	THE PROPERTY	OF THE	

DRAWN BY: CHECKED BY:

	BITUMII	NOUS MATERIA	L	EMULSION	ESTIMATED	HYDRATED
BASE COURSE					3930	
HMA, TYPE SP4V	5.30%				4000	1.50%
APPLICATION RATES (gal/sy)		0.080	0.450	0.0748		
GAL / TON		240.00	260.00	243.49		



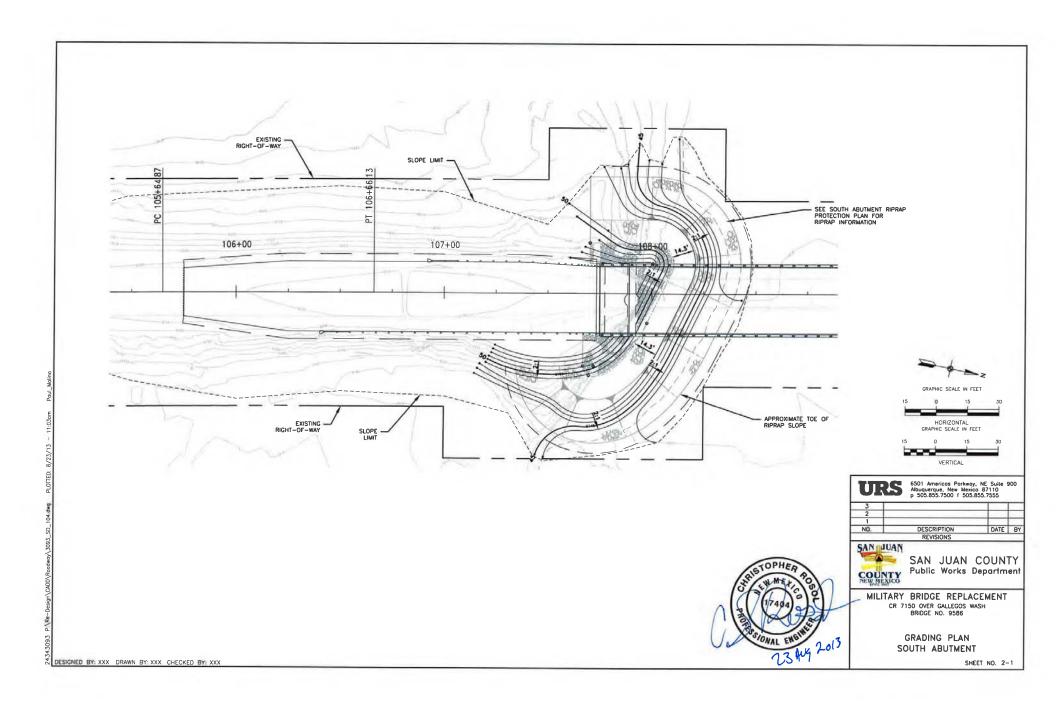
URS 6501 Americos Porkwoy, NE Suite 900 Albuquerque, New Mexico 87110 p 505.855.7500 f 505.855.7555 DESCRIPTION REVISIONS DATE BY

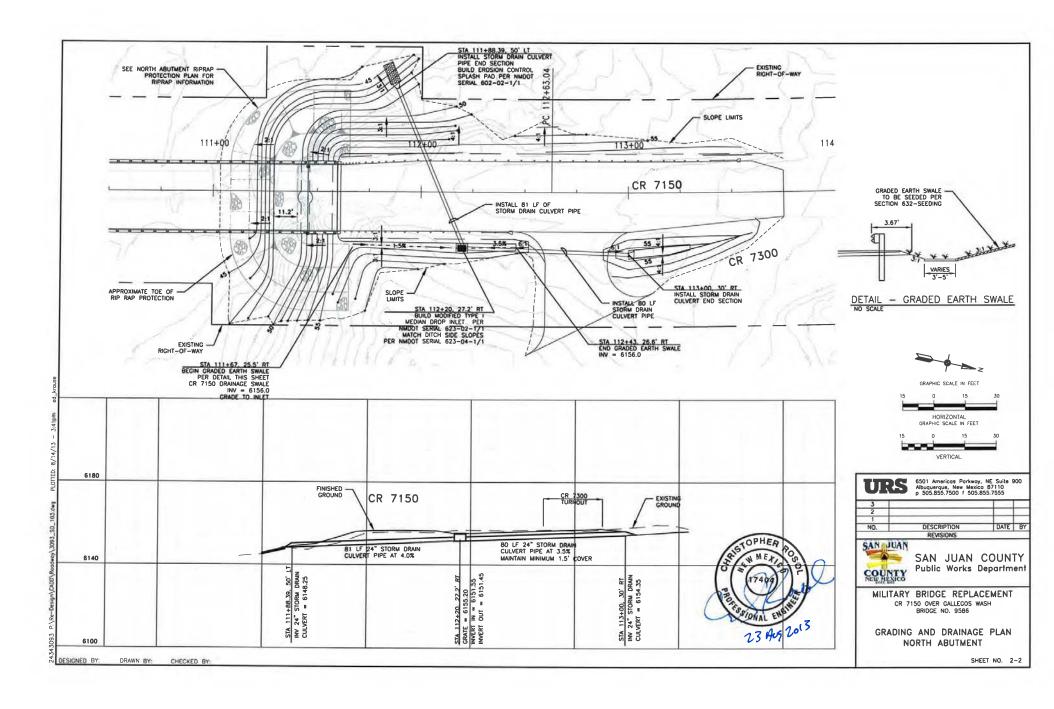


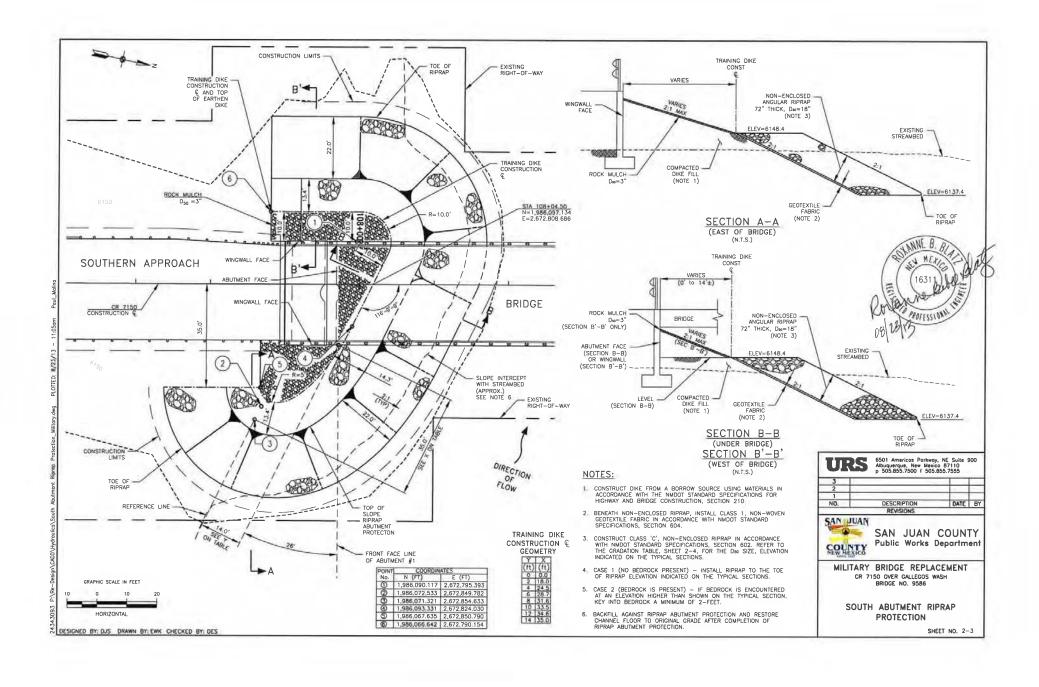
SAN JUAN COUNTY Public Works Department

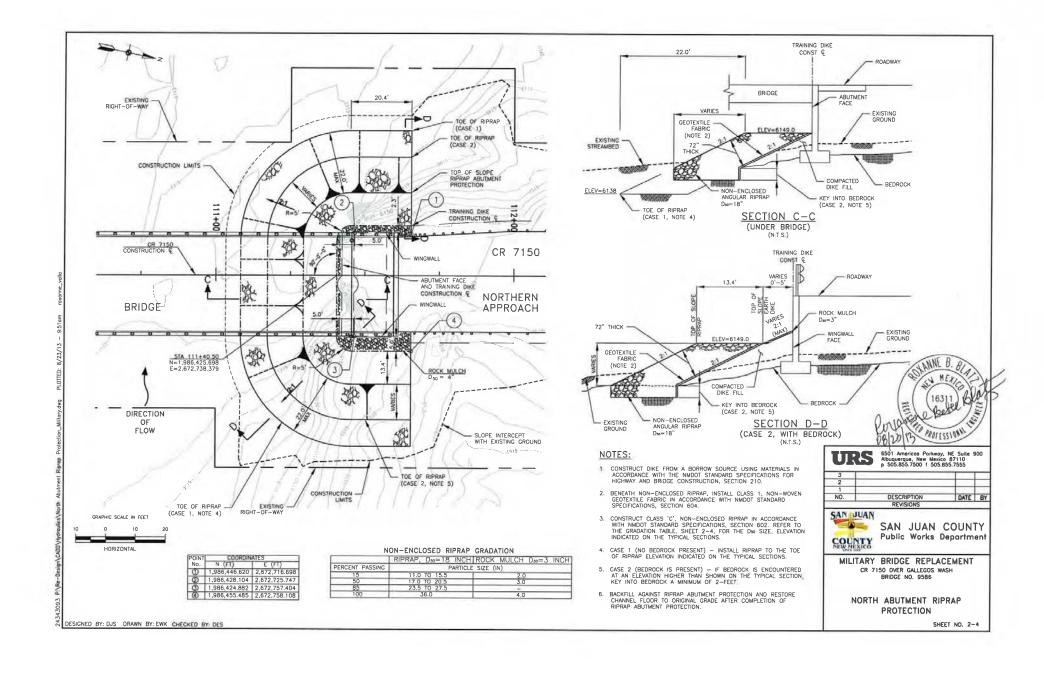
MILITARY BRIDGE REPLACEMENT CR 7150 OVER GALLEGOS WASH BRIDGE NO. 9586

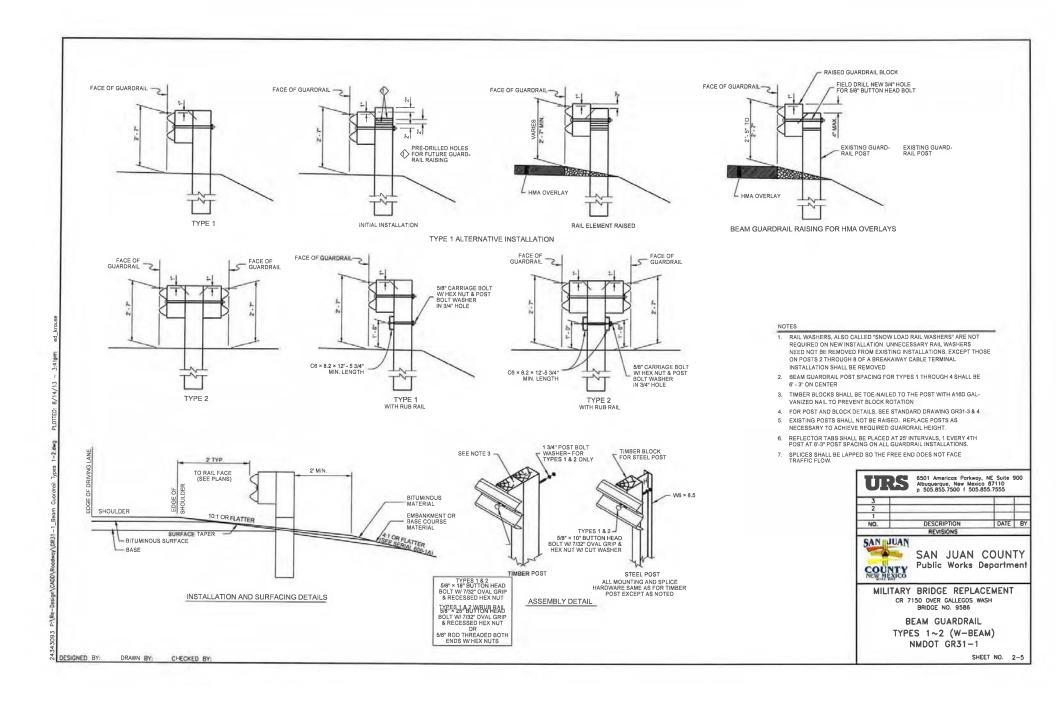
SURFACING SCHEDULE AND EARTHWORK QUANTITIES SHEET NO. 1-11



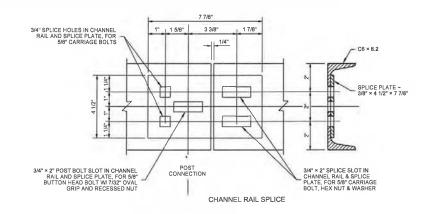


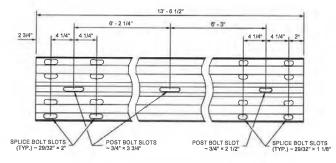




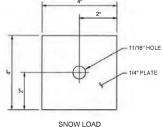


TYPICAL RAIL ELEMENT



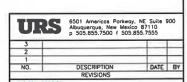


EXPANSION SECTION



SNOW LOAD POST WASHER

RAIL WASHERS, ALSO CALLED "SNOW LOAD RAIL WASHERS" ARE NOT REDURED ON NEW INSTALLATION, UNINCESSARY INSTALLATIONS, EXCEPT THOSE ON POSTS 2 THROUGH B OF A BREAKAWAY CABLE TERMINAL INSTALLATION SHALL BE REMOVED.





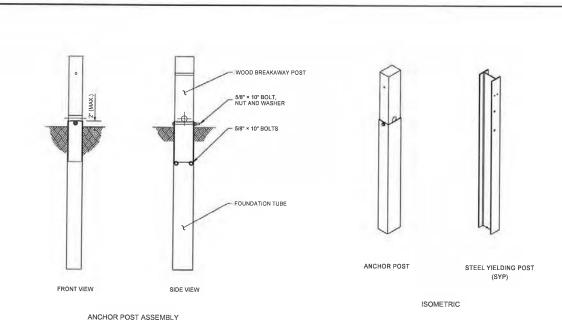
SAN JUAN COUNTY Public Works Department

MILITARY BRIDGE REPLACEMENT
CR 7150 OVER GALLEGOS WASH
BRIDGE NO. 9586

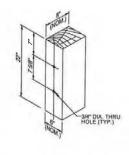
BEAM GUARDRAIL
TYPES 1~2 (W-BEAM)
NMDOT GR31-2

SHEET NO. 2-6

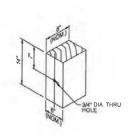
DESIGNED BY: DRAWN BY: CHECKED BY:



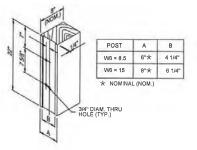
- WOOD POSTS FOR ALL GUARDRAIL PLACEMENT PLANS SHALL BE 6 \times 8 EXCEPT WHERE NOTED OTHERWISE
- 2. LOWER HOLE IS FOR RUB RAIL OF TYPE 1 AND TYPE 2 BEAM GUARDRAIL.
- 3. W6×8.5 STEEL POSTS AND TIMBER BLOCKS ARE ALTERNATES FOR 6 × 8 TIMBER POSTS AND BLOCKS. W6×15 STEEL POSTS AND TIMBER BLOCKS ARE ALTERNATES FOR 10 × 10 TIMBER POSTS AND BLOCKS.
- 4. HOLES SHALL BE LOCATED ON APPROACHING TRAFFIC SIDE OF WEB.
- 5. APPROVED COMPOSITE MATERIAL (ON THE APPROVED PRODUCT LIST) MAY BE SUBSTITUTED FOR WOOD BLOCKS



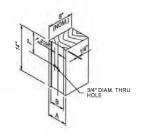




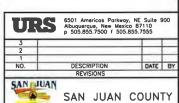
W-BEAM WOOD BLOCK FOR WOOD POSTS



THRIE BEAM WOOD BLOCK FOR STEEL POST



W-BEAM WOOD BLOCK FOR STEEL POST



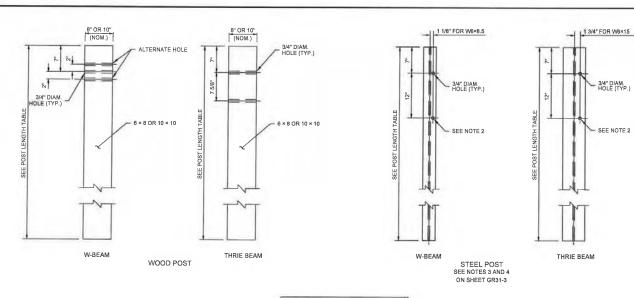
Public Works Department

MILITARY BRIDGE REPLACEMENT CR 7150 OVER GALLEGOS WASH BRIDGE NO. 9586

> ANCHOR DETAIL POSTS AND BLOCKS NMDOT GR31-3

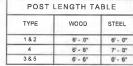
> > SHEET NO. 2-7

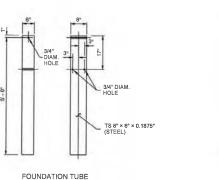
DESIGNED BY: DRAWN BY: CHECKED BY:

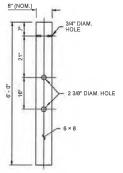


NOTES:

- WOOD POSTS FOR ALL GUARDRAIL PLACEMENT PLANS SHALL BE 6 × 8 EXCEPT WHERE NOTED OTHERWISE.
- LOWER HOLE IS FOR RUB RAIL OF TYPE 2 AND TYPE 3 BEAM GUARDRAIL.
- 3. W6×8.5 STEEL POSTS AND TIMBER BLOCKS ARE ALTERNATES FOR 6 × 8 TIMBER POSTS AND BLOCKS. W8×15 STEEL POSTS AND TIMBER BLOCKS ARE ALTERNATES FOR 10 × 10 TIMBER POSTS AND BLOCKS.
- HOLES SHALL BE LOCATED ON APPROACHING TRAFFIC SIDE OF WEB.
- 5 APPROVED COMPOSITE MATERIAL (ON THE APPROVED PRODUCT LIST) MAY BE SUBSTITUTED FOR WOOD BLOCKS.







CONTROLLED RELEASING TERMINAL (CRT) POST



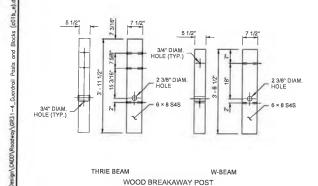


SAN JUAN COUNTY Public Works Department

MILITARY BRIDGE REPLACEMENT
CR 7150 OVER GALLEGOS WASH
BRIDGE NO. 9586

BEAM GUARDRAIL POSTS AND BLOCKS NMDOT GR31-4

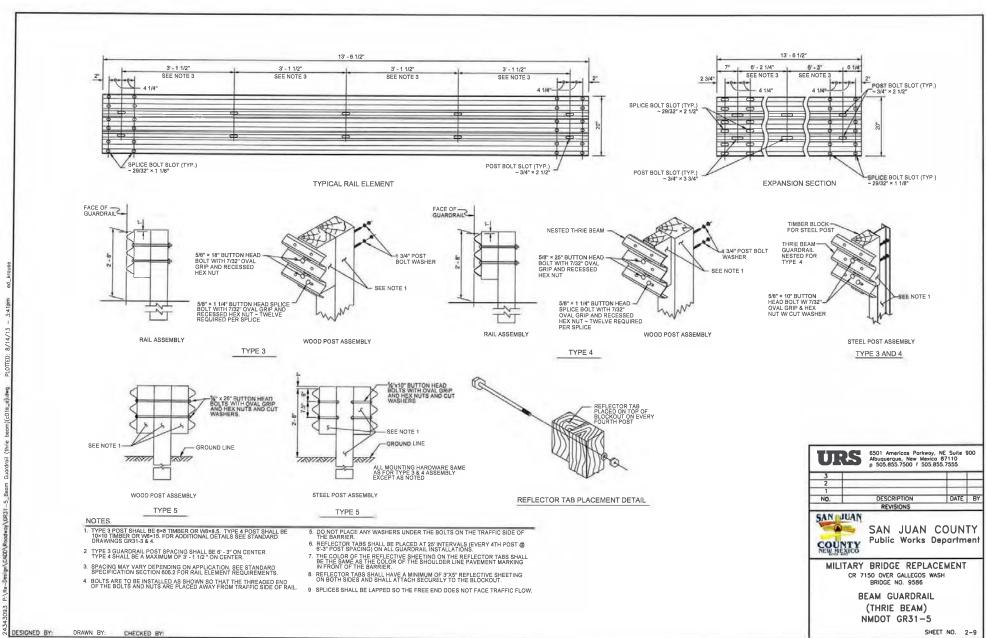
SHEET NO. 2-8



CHECKED BY:

DESIGNED BY:

DRAWN BY:

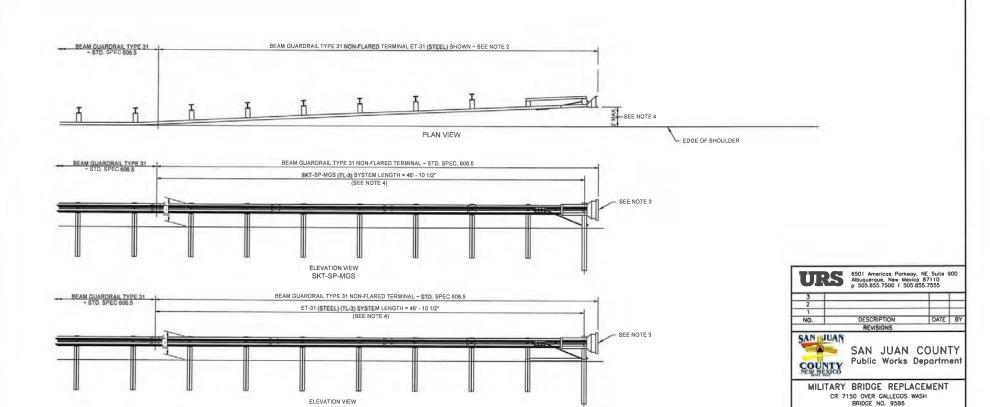


DESIGNED BY:

DRAWN BY:

CHECKED BY:

- 1. THESE TERMINALS ARE FHWA ACCEPTED AT TEST LEVEL THREE (TL-3) AND MAY BE USED FOR ALL POSTED SPEEDS
- 2. AN ET-31 (STEEL) AS MANUFACTURED BY TRINITY HIGHWAY PRODUCTS LLC OR AN SKT-SP-MGS AS MANUFACTURED BY ROAD SYSTEMS INC. OR OTHER APPROVED SYSTEMS SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
- 3. A REFLECTORIZED OBJECT MARKER SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
- 4 TERMINAL SHALL BE INSTALLED ENSURING THAT THE END PIECE IS ENTIRELY OFF THE SHOULDER. WHILE THESE TERMINALS DO NOT REQUIRE AN OFFSET AT THE END, A MAXIMUM FLARE OF 25: 1, OR FLATTER OVER THE LENGTH OF THE TERMINAL IS ALLOWED FOR EITHER THE ET-31 (STEEL) OR THE SKT-SP-MGS.
- 5. FOR TERMINAL DETAILS, SEE NMDOT APPROVED MANUFACTURER'S DRAWINGS.



BEAM GUARDRAIL NON FLARED TERMINAL TYPE 1 NMDOT GR31-6

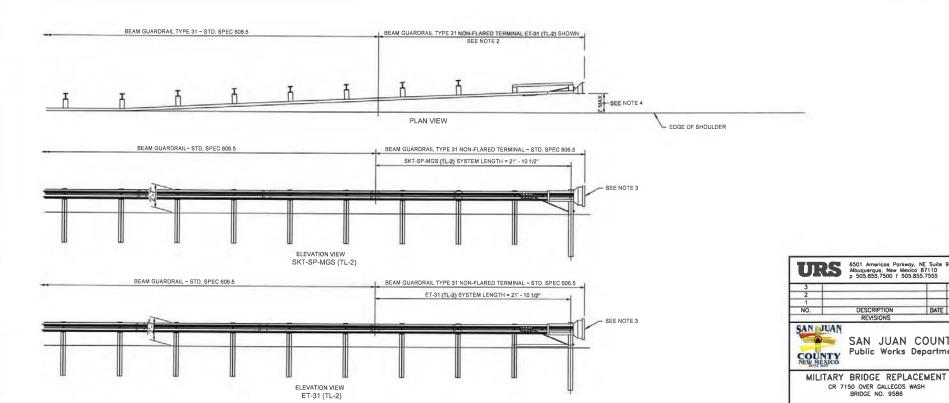
SHEET NO. 2-10

ELEVATION VIEW ET-31 (STEEL)

DRAWN BY:

CHECKED BY:

- 1. THESE TERMINALS ARE FHWA ACCEPTED AT TEST LEVEL TWO (TL-2) AND MAY BE USED IN APPLICATIONS WITH SPEEDS OF 40 MPH OR LESS.
- 2 AN ET-31 (TL-2) AS MANUFACTURED BY TRINITY HIGHWAY PRODUCT LLC OR AN SKT-SP-MGS (TL-2) AS MANUFACTURED BY ROAD SYSTEMS INC. OR APPROVED END TREATMENT SHALL BE INSTALLED ACCORDING TO MANUFACTURERS' RECOMMENDATIONS.
- 3. A REFLECTORIZED OBJECT MARKER SHALL BE INSTALLED ACCORDING TO MANUFACTURERS' RECOMMENDATIONS.
- TERMINAL SHALL BE INSTALLED ENSURING THE END PIECE IS ENTIRELY OFF THE SHOULDER. WHILE THESE TERMINALS DO NOT REQUIRE AN OFFSET AT THE END. A MAXIMUM FLARE OF 25: 1 OR FLATTER OVER THE LENGTH OF THE TERMINAL IS ALLOWED FOR ETHER THE ET-31 (TL-2) OR THE SKT-5P-MOS (TL-2).
- 5 FOR TERMINAL DETAILS, SEE NMDOT-APPROVED MANUFACTURERS' DRAWINGS.



6501 Americas Parkway, NE Suite 900 Albuquerque, New Mexica 87110 p 505.855.7500 f 505.855.7555

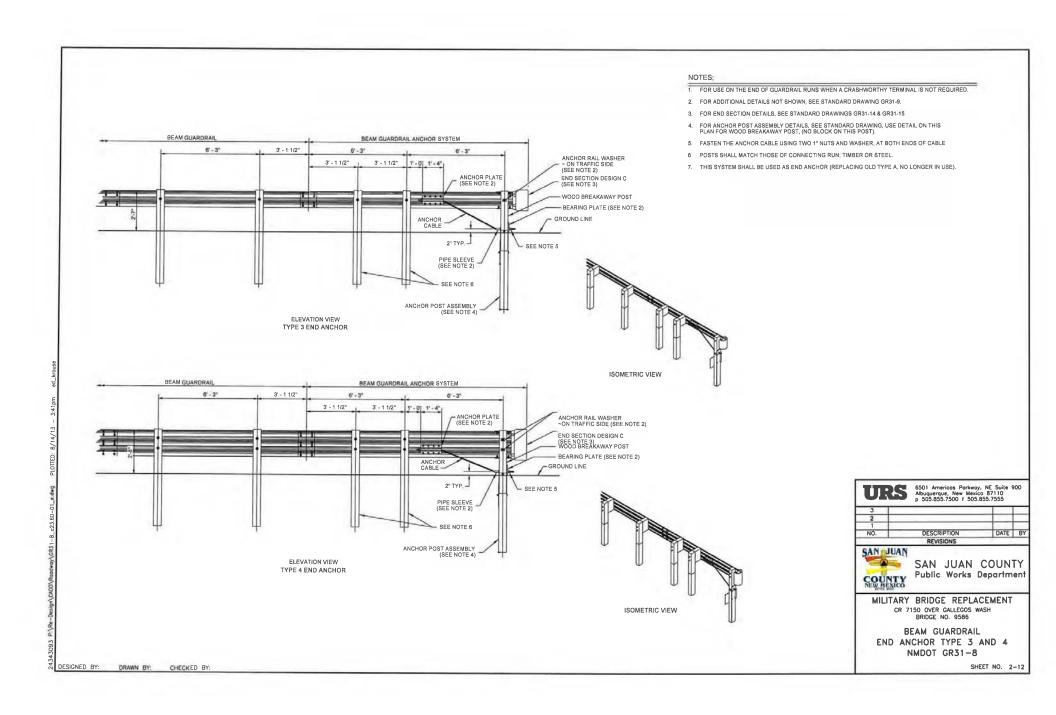
SAN JUAN COUNTY Public Works Department

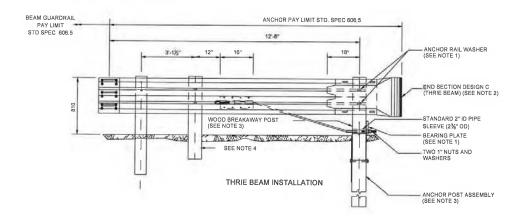
DESCRIPTION

REVISIONS

BEAM GUARDRAIL NON FLARED TERMINAL TYPE 2 NMDOT GR31-7

DATE BY





CHECKED BY:

NOTES:

- 1. FOR DETAILS, SEE STANDARD DRAWING GR31-10 & 11.
- 2 FOR DETAILS, SEE STANDARD DRAWING GR31-14 & 15.
- 3. FOR DETAILS, SEE STANDARD DRAWINGS GR31-3 & 4.
- 4. POST AND BLOCK SHALL MATCH BEAM GUARDRAIL POSTS.

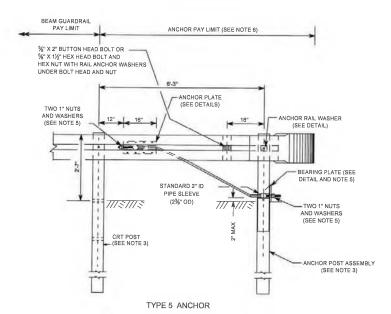




SAN JUAN COUNTY Public Works Department

MILITARY BRIDGE REPLACEMENT
CR 7150 OVER GALLEGOS WASH
BRIDGE NO. 9586

BEAM GUARDRAIL ANCHOR DETAILS NMDOT GR31-9



NOTE

- ANCHOR PLATE MAY BE CONSTRUCTED FROM ½" PLATES WELDED TO EQUAL STRENGTH AND DIMENSIONS AS SHOWN
- 2. FOR END SECTION DETAILS SEE STANDARD DRAWING G31-14 & 15, "BEAM GUARDRAIL END SECTIONS".
- 3. FOR POST DETAILS, SEE STANDARD DRAWING G31-3 & 4, "BEAM GUARDRAIL POSTS AND BLOCKS".
- EIGHT %"X1½" MACHINE BOLTS WITH HEX NUT AND WASHER. PLACE WASHER ON FACE SIDE OF RAIL.
- 5 TOENAIL BEARING PLATE WITH 10D NAIL AT CORNERS TO PREVENT TURNING. BEND THE NAIL OVER THE BEARING PLATE.
- 6 ANCHOR PAY LIMIT DOES NOT APPLY WHEN ANCHOR IS INCLUDED IN A BEAM GUARDRAIL TERMINAL. SEE STANDARD SPEC 606.5
- 7. THIS SYSTEM IS SIMILAR TO OLD TYPE B OR C





SAN JUAN COUNTY Public Works Department

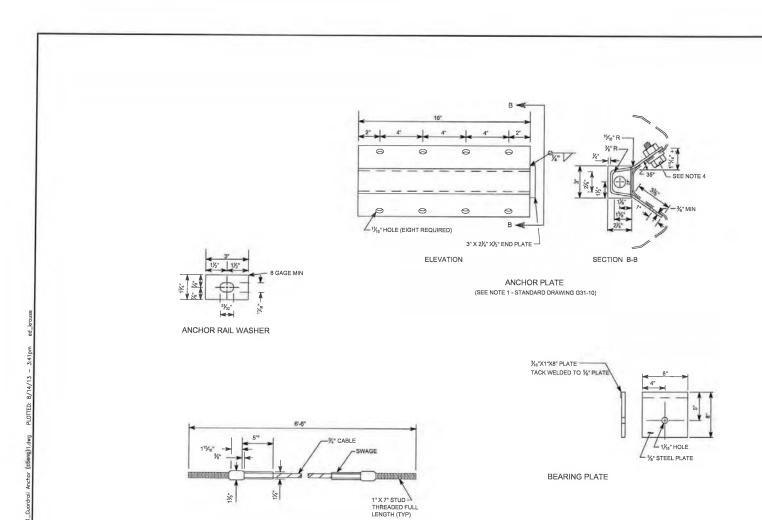
MILITARY BRIDGE REPLACEMENT CR 7150 OVER GALLEGOS WASH BRIDGE NO. 9586

BEAM GUARDRAIL ANCHOR TYPE 5 NMDOT GR31-10

SHEET NO. 2-14

DRAWN BY:

CHECKED BY:



ANCHOR CABLE

DRAWN BY:

CHECKED BY:

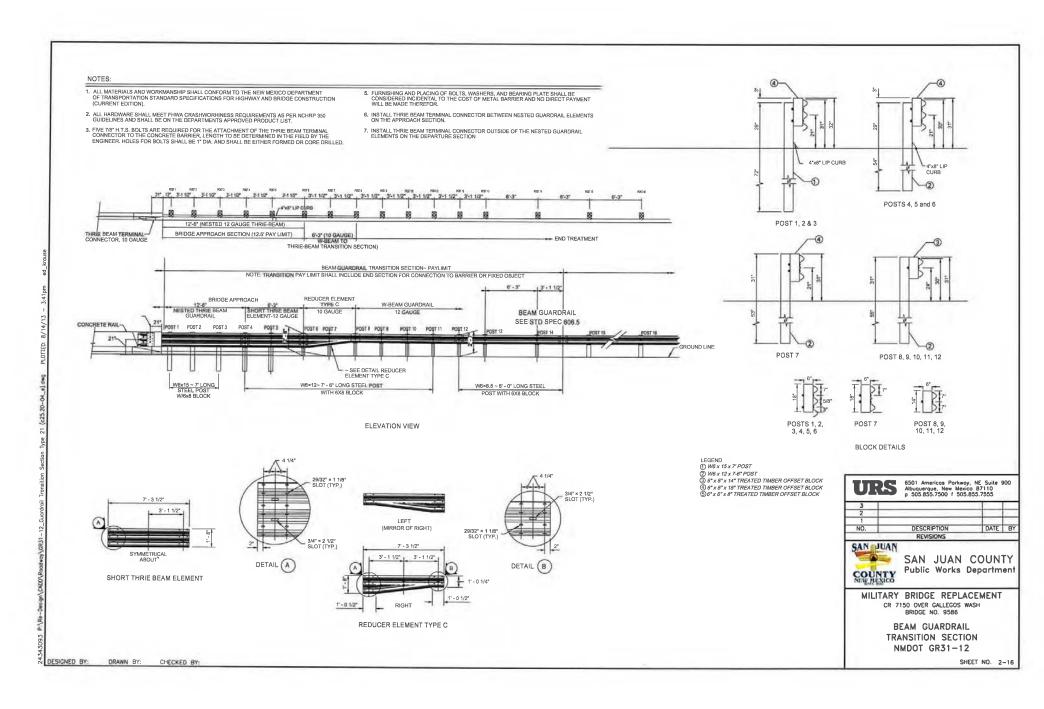


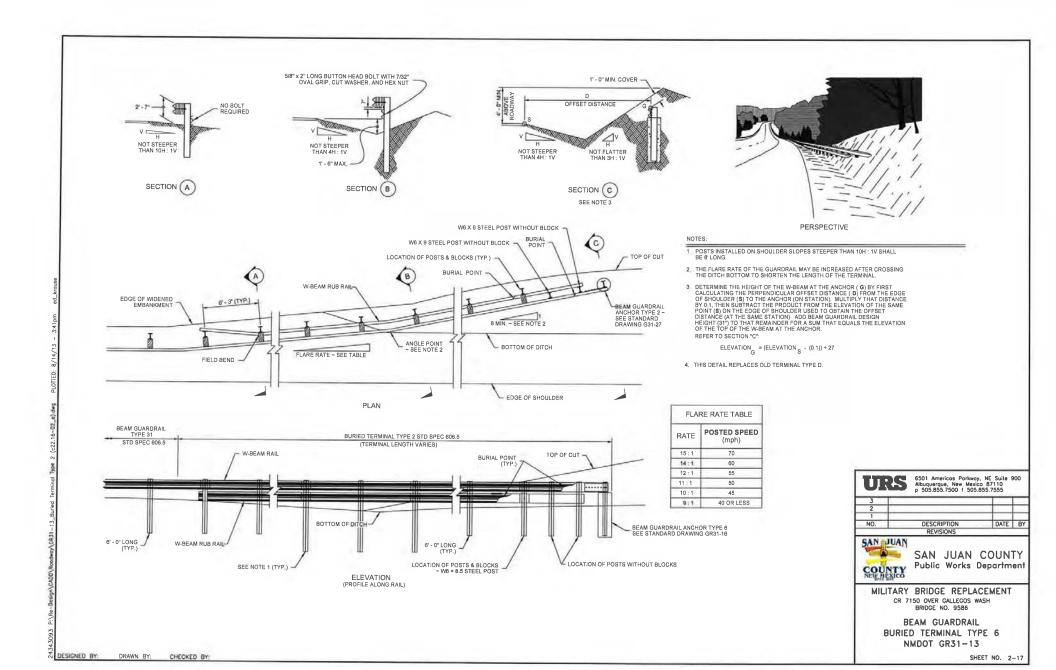


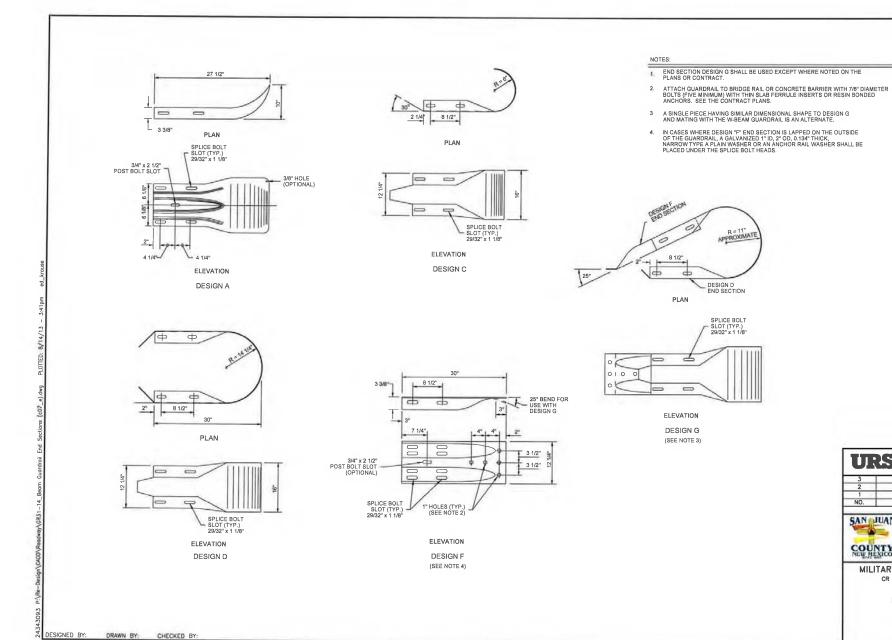
SAN JUAN COUNTY Public Works Department

MILITARY BRIDGE REPLACEMENT CR 7150 OVER GALLEGOS WASH BRIDGE NO. 9586

BEAM GUARDRAIL ANCHOR TYPE 5 NMDOT GR31-11







6501 Americas Parkway, NE Suite 900 Albuquerque, New Mexico 87110 p 505.855.7500 f 505.855.7555

SAN JUAN COUNTY

Public Works Department

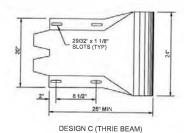
DATE BY

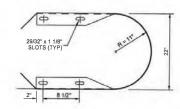
SHEET NO. 2-18

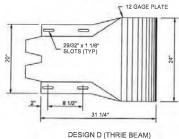
DESCRIPTION

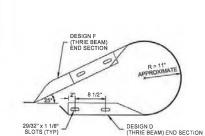
MILITARY BRIDGE REPLACEMENT CR 7150 OVER GALLEGOS WASH BRIDGE NO. 9586 BEAM GUARDRAIL END SECTIONS NMDOT GR31-14

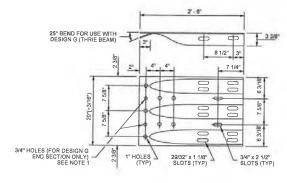
SANJUAN



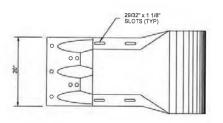












DESIGN G (THRIE BEAM)



ATTACH GUARDRAIL TO BRIDGE RAIL OR CONCRETE BARRIER WITH 7/8" DIAMETER BOLTS (FIVE MINIMUM) WITH THIN SLAB FERRULE INSERTS OR RESIN BONDED ANCHORS. SEE THE CONTRACT PLANS.

2 IN CASES WHERE DESIGN F END SECTION IS LAPPED ON THE OUTSIDE OF THE GUARDRAIL, A GALVANIZED 1" ID, 2" OD, 0.134" THICK, NARROW TYPE A PLAIN WASHER OR AN ANCHOR RAIL WASHER WILL BE PLACED UNDER THE SPLICE BOLT HEADS.





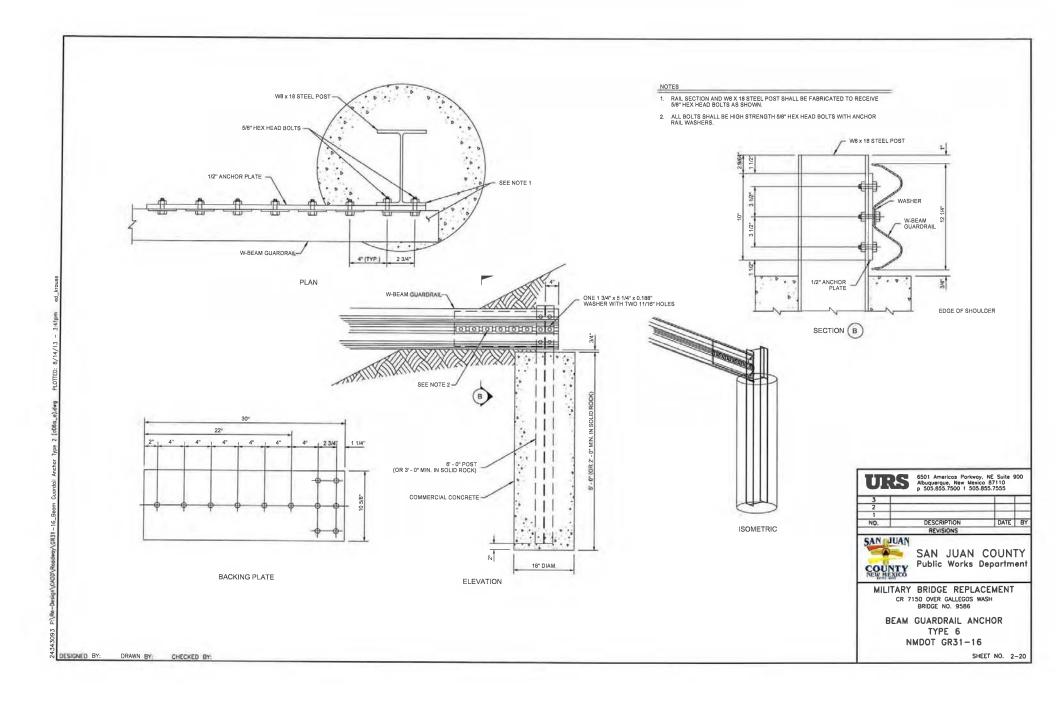
SAN JUAN COUNTY Public Works Department

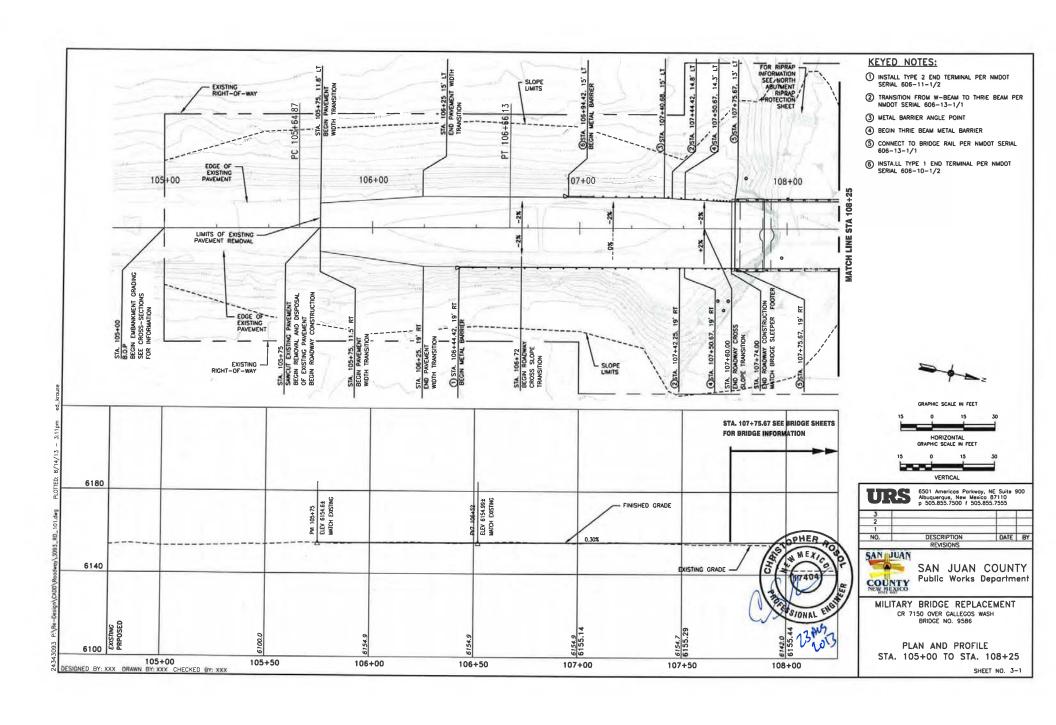
MILITARY BRIDGE REPLACEMENT
CR 7150 OVER GALLEGOS WASH
BRIDGE NO. 9586

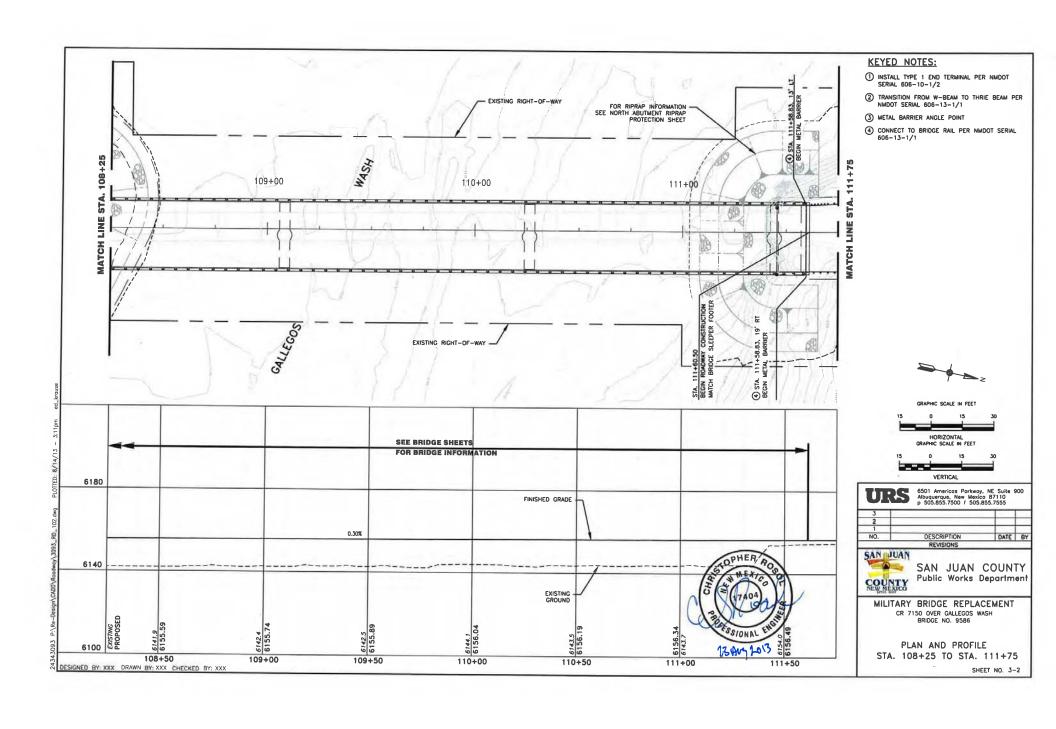
THRIE BEAM END SECTIONS NMDOT GR31-15

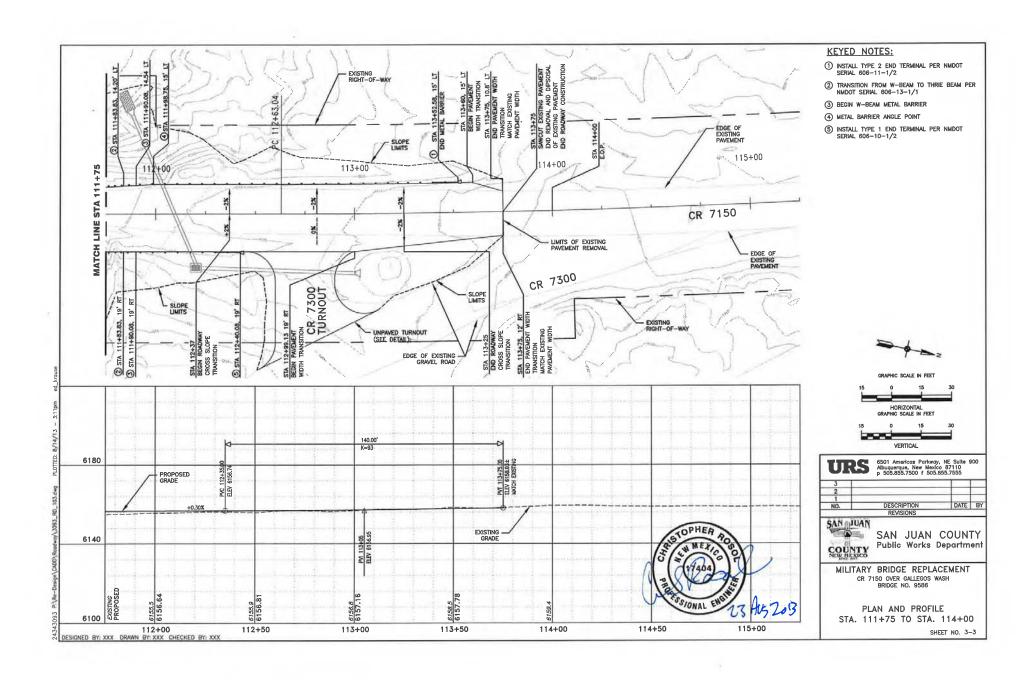
SHEET NO. 2-19

DESIGNED BY: DRAWN BY: CHECKED BY:









ALL DIMENSIONS SHOWN ARE IN FEET AND INCHES, UNLESS NOTED OTHERWISE. ALL STATIONS AND ELEVATIONS SHOWN ARE IN FEET. 2. SCALES APPLY TO 11"x17" SHEETS

SPECIFICATIONS

1. DESIGN: AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 6th EDITION, 2012 AND NEW MEXICO DEPARTMENT OF TRANSPORTATION (NMOOT) BRIDGE PROCEDURES AND DESIGN GUIDE, APRIL 2013

 CONSTRUCTION: NEW MEXICO DEPARTMENT OF TRANSPORTATION
 STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION, 2007 EDITION; W/SUPPLEMENTAL SPECIFICATIONS; AND SPECIAL

REINFORCED CONCRETE

1. PROVIDE 3/4" CHAMFERS ON ALL EXPOSED EDGES, UNLESS NOTED OTHERWISE.
2. PROVIDE 2" MINIMUM COVER TO REINFORCING STEEL, UNLESS NOTED OTHERWISE.
3. CONSTRUCTION JOINTS SHALL BE MADE ONLY AT THE LOCATIONS SHOWN IN THE PLANS, UNLESS OTHERWISE. APPROVED BY THE ENGINEER.
4. PREFORMED CLOSED CELL FOAM BRIDGE JOINT 52AL SYSTEMS REQUIRE THE INSTALLER TO BE CERTIFICAL PRIOR TO INSTALLATION. THE COST OF OBTAINING THE CERTIFICATION SHALL BE INCIDENTAL.

5. ALL EXPOSED SUBSTRUCTURE CONCRETE SURFACES SHALL HAVE AN ANTI-GRAFFITI COATING APPLIED TO THEM AFTER CURING. ANTI-GRAFFITI COATING SHALL BE IN ACCORDANCE WITH SECTION 532 OF THE NIMOT STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION, 2007 EDITION.

6. SURFACE FINISHES FOR CAST—IN—PLACE CONCRETE SHALL BE IN ACCORDANCE WITH SECTION 511.3.8 AS FOLLOWS:

A. CLASS 1, ORDINARY SURFACE FINISH FOR ALL SUBSTRUCTURE ELEMENTS BELOW

GROUND B. CLASS 2, RUBBED SURFACE FINISH FOR ALL ELEMENTS OF THE STRUCTURE

EXPOSED TO GENERAL PUBLIC VIEW.

C. CLASS 3, FLOAT FINISH FOR UPPER SURFACES THAT ARE NOT FORMED SUCH AS TOP OF WALLS AND SLABS.

CAST-IN-PLACE CONCRETE DECKS

1. CONCRETE FOR DECK SLAB, APPROACH SLABS, SLEEPER FOOTERS, AND ABUTMENT AND PIER DIAPHRAGMS SHALL BE CLASS HPD IN ACCORDANCE WITH SECTION 509, TABLE 509.2.8.1:1 OF THE STANDARD SPECIFICATION FOR HIGHWAY

2. DECK SLAB CONCRETE SHALL BE PLACED IN ACCORDANCE WITH THE PLACEMENT

DECA SURGE CONCRETE SHALL BE FLANCE IN ACCOUNTAGE THE RESIDENCE CENTERLINE, FINISHING MACHINES SHALL OPERATE PARALLEL TO THE BRIDGE CENTERLINE, UNLESS NOTED OTHERWISE, FLOAT AND BROOM THE PLASTIC CONCRETE PARALLEL

UNILESS NOTEO OTHERWISE. FLOAT AND BROOM THE PLASTIC CONCRETE PARALLE TO THE FINISHING OPERATION.

AFTER GIRDERS ARE PLACED AND BEFORE SCREEDS ARE SET, A PROFILE SHALL BE TAKEN ALONG EACH GIRDER TO COMPARE THE FIELD CONDITION TO THE ESTIMATED CONDITION SHOWN IN THE PLANS. IF THE ACTUAL CONDITION VARIES SIGNIFICANTLY FROM THAT SHOWN IN THE PLANS SUCH THAT EXCESSIVE HAUNCHES OR DEFICIENT SLAB HICKNESS WOULD RESULT, THE CONTRACTOR SHALL MAKE APPROPRIATE ADJUSTMENTS DIRECTED BY THE ENGINEER.

SHALL MAKE APPROPRIATE ADJUSTMENTS DIRECTED BY THE ENGINEER.

S. STEL STAY—IN-PLACE FORMS WAY BE USED FOR ALL INTERIOR SLAB SPANS,
NO STEEL STAY—IN-PLACE FORMS WILL BE ALLOWED ON THE CANTILEVER
PORTIONS OF THE SLAB. FORMS SHALL BE VENTED AS PER SUBSECTION
512.3.4.1.1 OF NMDOT SPECIFICATIONS. COMPLETE SHOP DRAWINGS, DESIGN,
CALCULATIONS, AND SPECIFICATIONS FOR THE PROPOSED FORMING SYSTEM MUST
BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION. COST OF STAY-IN-PLACE FORMS SHALL BE INCLUDED IN THE UNIT PRICE FOR ITEM 512003 (HIGH PERFORMANCE CONCRETE).

REINFORCING STEEL

AS MODIFIED BY SECTION 540 OF THE SPECIFICATIONS. DIMENSIONS TO REINFORCING STEEL LOCATIONS ARE TO CENTERLINE OF BARS,

UNLESS NOTED OTHERWISE.
REINFORCING STEEL SHALL BE EPOXY COATED IN ALL CAST—IN—PLACE CONCRETE COMPONENTS LOCATED ABOVE THE BEARING (EXCEPT WINGWALLS) AND SHALL CONFORM TO AASHTO M 284 AS MODIFIED BY SECTION 540 OF THE SPECIFICATIONS

SPECIFICATIONS.

3. REINFORCING STEEL SPLICES NOT SHOWN IN THE PLANS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO USE.

4. MECHANICAL BAR SPLICES MAY BE USED AS SHOWN IN THE PLANS OR AS APPROVED BY THE ENGINEER IN LIEU OF LAP SPLICES. THE CONTRACTOR SHALL SUBMIT CERTIFIED TEST RESULTS FOR EACH BAR SIZE AND EACH MECHANICAL SPLICE IN CAPABLE OF DEVELOPMENT AT LEAST 125% OF THE YELD STRENGTH OF THE BARS BEING DEVELOPMENT AND AND ASSETTION OF THE BARS BEING SPLICED.

5. SHOP DRAWINGS SHALL BE PROVIDED FOR REINFORCING STEEL.

METAL RAILING

1. METAL RAILING SHALL BE NM TYPE A42 IN ACCORDANCE WITH NMDOT STANDARD DRAWING 543-07, SHEETS 1-4.

2. METAL RAILING FOR THIS PROJECT SHALL BE GALVANIZED IN ACCORDANCE WITH SECTION 543.3.2 OF THE NMDOT STANDARD SPECIFICATIONS FOR HIGHWAY AND PROJECT COLLECTION. BRIDGE CONSTRUCTION.

3. GUTTER CHANNEL WILL NOT BE REQUIRED FOR THIS PROJECT.

PRESTRESSED GIRDERS

PRESTRESSED GIRDERS ARE DESIGNED AS SIMPLY SUPPORTED SPANS FOR DEAD AND LIVE LOADS.

2. PRESTRESSING FORCE OF STRANDS AND MINIMUM CONCRETE STRENGTH AT

RELEASE AND 28 DAY SHALL BE AS SHOWN ON THE GIRDER DETAIL SHEETS.
STRENDS STRANDS SHALL BE LOW-RELAXATION HIGH-STRENGTH STEEL
STRANDS CONFORMING TO AASHTO M 203 GRADE 270, UNLESS NOTED

HARPED STRANDS ARE DESIGNED TO HAVE A MAXIMUM UPLIFT FORCE OF 5. KIPS/STRAND. IF THE TOTAL UPILIF FORCE EXCEEDS THE SAFE WORKING LOAD OF THE FABRICATORS HOLD DOWN DEVICE, TWO DEVICES MAY BE USED.

5. THE LOCATION OF HOLD DOWN DEVICES, LIFTING DEVICES MAY BE USED.

6. THE CONTRACTOR SHALL BE SHOWN ON THE SHOP DRAWINGS.

6. THE CONTRACTOR SHALL SATISFACTORILY SECURE OR BRACE ALL GIRDERS PRIOR

TO PLACEMENT OF THE DECK AND/OR DIAPHRAGMS.

7. ALL REINFORCING STEEL PROJECTING FROM TOP OF PRECAST PRESTRESSED

GIRDERS SHALL BE UNCOATED CORROSION RESISTANT STEEL

BRIDGE NUMBER PLATES

THE CONTRACTOR SHALL FURNISH AND INSTALL TWO NEW 6"X4"X3/8" BRIDGE NUMBER PLATE. THE COST OF THE PLATE SHALL BE INCIDENTAL TO THE PROJECT. PLATES TO BE PLACED ON THE END OF BRIDGE ON THE NORTHWEST AND SOUTHEAST CORNERS AS SHOWN IN PARTIAL ELEVATION THIS SHEET.

100% STD.

MATERIAL

PROCTOR A-1-0

DESIGN DATA

LIVE LOADING
HL-93 AND P327-13 PERMIT LOADING

DEAD LOADING NORMAL WEIGHT CONCRETE - 150 PCF STRUCTURAL STEEL - 490 PCF STAY-IN-PLACE DECK FORM SYSTEM - 15 PSF FUTURE WEARING SURFACE - 30 PSF

WIND LOADING BASE WIND VELOCITY - 100 MPH MATERIAL PROPERTIES

f'c = 3000 PSI f'c = 4000 PSI SUBSTRUCTURE f'c = 4000 PSISUPERSTRUCTURE fy = 60,000 PSI GRADE 60 REINFORCEMENT

LFR RATINGS INVENTORY RATING = HS 20.8 OPERATING RATING = HS 36.5

INCIDENTAL ITEMS

1. BRIDGE NUMBER PLATES

HAULING AND STOCKPILING OF SALVAGED MATERIAL.
PREFORMED CLOSED CELL BRIDGE JOINT SEALS, CERTIFICATION AND INSTALLATION

5/8"

5/8"

0

Ne

TYPICAL -

TRAFFIC PROTECTION.

WATER DIVERSION IN CHANNEL

0

3/4

1/2

3/4

1/2" HOLES

2"Ø STEEL CONDUIT FOR TELEPHONE. EXPANSION AND FIXED RESTRAINERS AT ABUTMENTS AND PIERS.

8. 16 GAGE SHEET METAL AT SLEEPER FOOTER

BR.

5/8"

NUMBER PLATE ELEVATION

SCALE: NTS

INDEX OF BRIDGE SHEETS

BRIDGE NOTES & INDEX OF SHEETS GENERAL PLAN & ELEVATION

TYPICAL SECTION, PROFILE & QUANTITIES FOUNDATION PLAN & DRILLED SHAFT DETAILS

BORING LOGS -

BORING LOGS - II

BORING LOGS - IV

ABUTMENT & WINGWALL PLAN & ELEVATION ABUTMENT DETAILS

PIER PLAN & ELEVATION PIER DETAILS

BEARING DETAILS

BEARING DETAILS
FRAMING PLAN, RAILING POST & GIRDER DEFLECTIONS
GIRDER DETAILS - TYPE 63 MODIFIED
PRESTRESSED CONCRETE GIRDER NOTES

PRESTRESSED CONCRETE GIRDER NOTES AND CHAMFER DETAIL

MISCELLANEOUS GIRDER DETAILS

INTERMEDIATE DIAPHRAGM DETAILS

DECK PLAN & DETAILS
DECK SECTION & SCREED ELEVATIONS

ARLITMENT DIAPHRAGMS

PIER DIAPHRAGMS

APPROACH SLAB PLAN

APPROACH SLAB DETAILS

STANDARD DRAWINGS

543-07-1/4 THROUGH 4/4 METAL RAILING NM TYPE A42 562-01-1/3 THROUGH 3/3 SYSTEM 1 BRIDGE JOINT STRIP SEALS

SPECIAL PROVISIONS
532-A PERMANENT ANTI-GRAFFITI PROTECTIVE COATING (01/23/97) 532-A

SUPERSTRUCTURE CONCRETE (02/15/10)

PRESTRESSED CONCRETE MEMBERS (04/06/09) STEEL REINFORCEMENT (06/16/11) 518

540

ELASTOMERIC BEARING PADS (04/15/10)

PREFORMED CLOSED CELL BRIDGE JOINT SEALS (06/26/08)

BACKFILL COMPACT TO 100% STANDARD PROCTOR DENSITY WITH AASHTO A-1-a MATERIAL (MAXIMUM COARSE FRACTION SIZE 1½"). VOLUME OF A-1-a
MATERIAL TO BE PAID UNDER STRUCTURE EXCAVATION AND BACKFILL FOR

NOTES BRIDGES 210000. 1. PROCTOR CURVES OF A-1-q & NORMAL EMBANKMENT MATERIAL SHALL BE

PARTIAL ELEVATION

SCALE: NTS

SUBMITTED TO THE BRIDGE FOUNDATION ENGINEER. FIELD DENSITY TESTS REPORTS SHALL ALSO BE SUBMITTED TO THE BRIDGE FOUNDATION ENGINEER OF 100% STANDARD PROCTOR ZONES.

THIS DETAIL SHALL BE PLACED AT BOTH ABUTMENT LOCATIONS FOR THE PLACEMENT AND CONSTRUCTION OF THE ASSHTO A-1-a MATERIAL UNDER THE

95% STD PROCTOR

BACKFILL COMPACTION DETAIL

SCALE: NTS

3/8" - 1/8" CTSK \Box NUMBER PLATE TOP OF DECK 1/4" WINGWALL

TYPICAL

-3/R'

GRIND FACE OF

BORDER SMOOTH.

LETTERS AND

TÝPICAL

NUMBER PLATE SECTION SCALE: NTS

BRIDGE NUMBER PLATE DETAILS

BRIDGE NO. 9586 REPLACES EXISTING BRIDGE NO. 8105

COUNTY

6501 Americos Parkway, NE Suite 900 Albuquerque, New Mexico 87110 p 505.855.7500 f 505.855.7555

OXANNE B.

Constitutio PROFESSIONIN

SEN MEXI

DESCRIPTION NO. REVISIONS SAN JUAN

SAN JUAN COUNTY **Public Works Department**

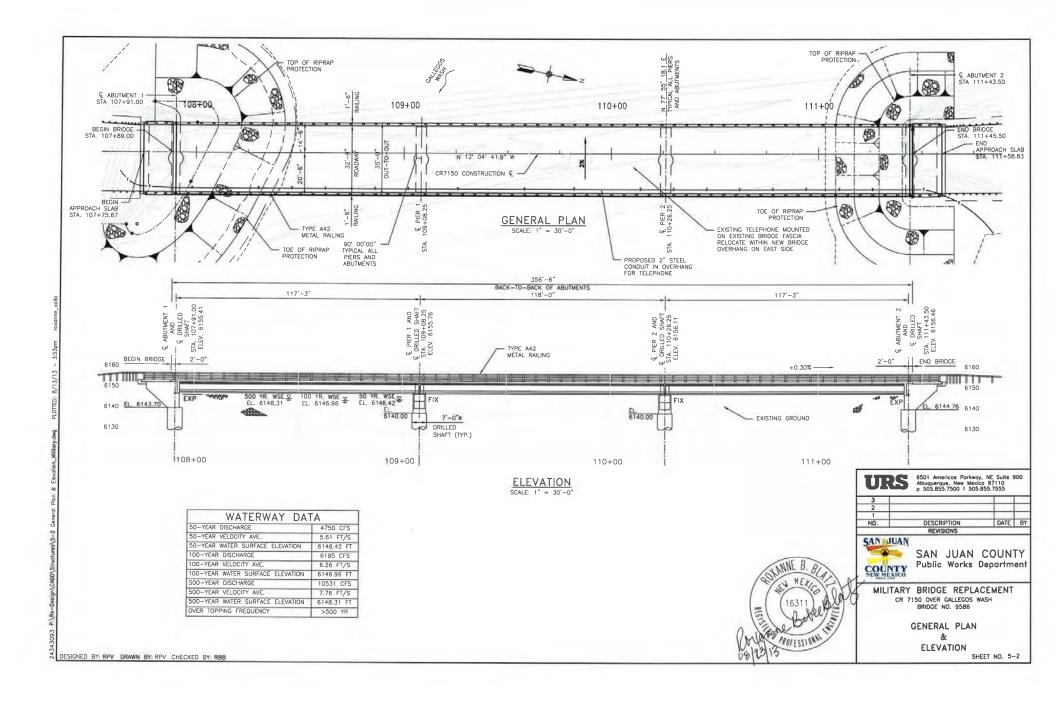
MILITARY BRIDGE REPLACEMENT CR 7150 OVER GALLEGOS WASH BRIDGE NO. 9586

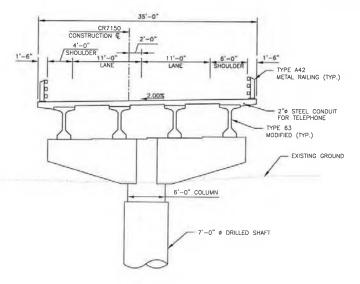
> **BRIDGE NOTES** &c INDEX OF SHEETS

SHEET NO. 5-1

DATE BY

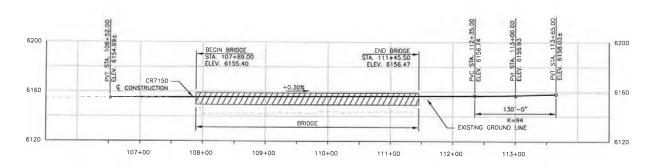
DESIGNED BY: RPV DRAWN BY: RPV CHECKED BY: RBB





		QUA	NTITIES						
			SUPERSTRUCTURE		SUBSTR	APPROACH			
ITEM #	DESCRIPTION	UNIT		ABUT, 1	PIER 1	PIER 2	ABUT. 2	SLABS	TOTALS
210000	EXCAVATION AND BACKFILL FOR MAJOR STRUCTURES	CY		220			220	50	490
502084	DRILLED SHAFT FOUNDATION 84" D	LF		84	61	41	19		205
505000	CSL CONSULTANT TESTING	EA		1	1	1	1		4
511030	STRUCTURAL CONCRETE, CLASS AA	CY		40	44	44	40		168
512003	HIGH PERFORMANCE CONCRETE (HPD)	CY	450	1		3		50	500
518065	PRESTRESSED CONCRETE BRIDGE MEMBER, TYPE 63 MOD	LF	1,406						1,406
532100	PERMANENT ANTI-GRAFFITI PROTECTIVE COATING	SF		100	350	350	100		900
540060	REINFORCING BARS, GRADE 60	LB		10,100	9,400	9,400	10,100		39,00
540160	EPOXY-COATED REINFORCING BARS, GRADE 60	LB	112,400	1,200	930	930	1,200	8,800	125,46
541000	STRUCTURAL STEEL FOR CONCRETE BRIDGES	LB	9,000						9,000
543002	METAL RAILING - TYPE A42	LF	708					56	764
562000	BRIDGE JOINT STRIP SEAL	LF						75	75
601000	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LS							LS
602020	RIPRAP CLASS C	CY		1,021		7	692		1,713
604001	GEOTEXTILE CLASS I	SY	1	754			501		1,255
621000	MOBILIZATION	LS					-		LS

TYPICAL SECTION
SCALE: 1" = 10'-0"



PROFILE

HORIZONTAL SCALE: 1" = 100'-0"

VERTICAL SCALE: 1' = 50'-0"

6501 Americos Parkway, NE Suite 900 Albuquerque, New Mexico 87110 p 505.855.7500 (505.855.7555 1 NO. DESCRIPTION DATE BY REVISIONS

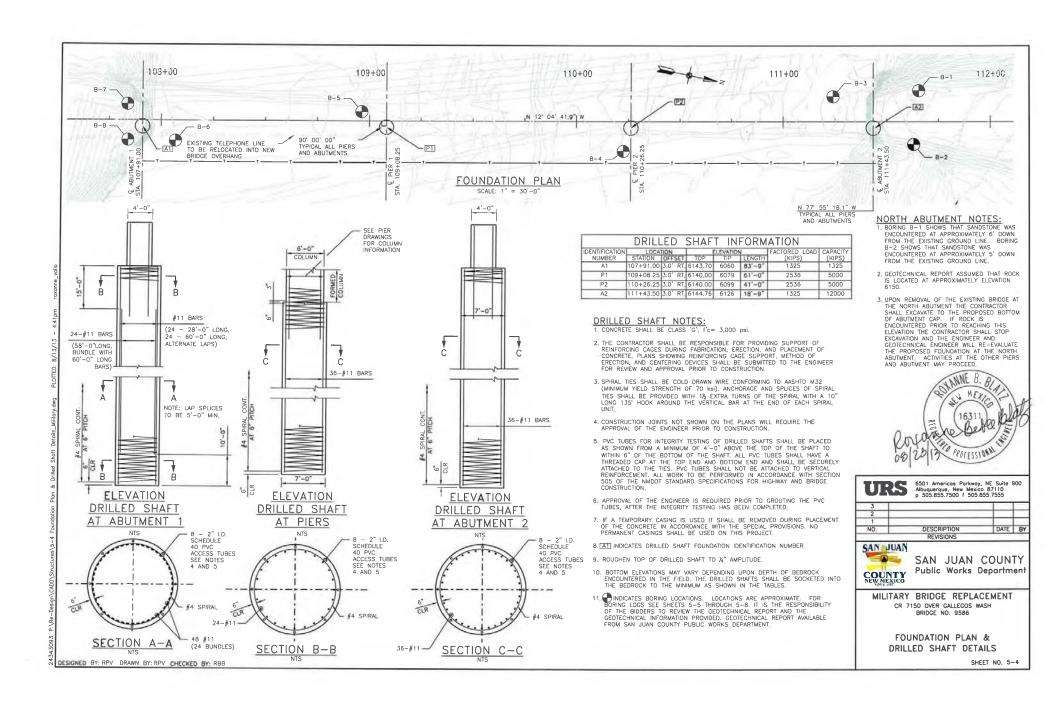


SAN JUAN COUNTY **Public Works Department**

MILITARY BRIDGE REPLACEMENT CR 7150 OVER GALLEGOS WASH BRIDGE NO. 9586

TYPICAL SECTION, PROFILE & QUANTITIES SHEET NO. 5-3

DESIGNED BY: RPV DRAWN BY: RPV CHECKED BY: RBB



Project Client: Site Lo Rig Ty Drilling Sampli	Method: Ing Method er Weigh		San . San . San .	Juan Juan Juan - 75 D. Hi and	Cour	or 7150 nty nty, New Me Stem Auge spoon samp	Boring Location: See Site Plan Groundwater Depth: Approx 44 ft during drilling
Papouston (pdf) N. Passing Soore	Plasticity Index Moisture Content (%)	Blows per 6"	Sample Type	Recovery	nscs	Soil Symbol	Soil Description
		28.50/3	MC 9		SM		SILTY SAND, Ian, fine-grained, loose to medium dense, damp
		32-50/1	8 8 7	200	пк		SANDSTONE, tan, fine-grained, moderately weathered, soft to moderately hard, weakly to moderately cemented, slight odo (hydrocarbon?)
		34-60/2	SS 8	350			SILTSTONE, gray, moderately weathered, soft to moderately hard
		27-50/3 50/8	SS 9	260	RK	X X X X X X X X X X X X X X X X X X X	
		15-19-35	8 SS 18	×	RK		SHALE, gray, moderately weathered, soft, massive
		50/5	SS S	*	RK	X X X X X X X X X X X X X X X X X X X	SitTSTONE, gray, moderately weathered, moderately soft to moderately hard
	П	5015 38-504	SS 5	340			¥SANDSTONE, gray, clayey, fine-grained, moderately
		39-50/2	SS 10 SS 8	×	RK	OF FRANCISCO STATE OF	weathered, soft to moderately hard, weakly to moderately cemented
H	H	BGS	Ÿ	><			SANDSTONE, gray, clayey, fine-grained, moderately weathered, soft to moderately hard, weakly to moderately cemented.
		50/3	55 6 55	*	RK	6000000	
		50/6	SS 6	260		96 23	SILTSTONE, gray, moderately weathered, soft
П	5	M-50/3	SS 9	80	RK	71 72 72 76 76 76 76 76 76 76 76 76 76 76 76 76	
		50/4	SS I			0000000	SHALE, brown, moderately weathered, moderately soft,
			SS B				massive
		50/4	85	-	RK	870	
	H	ANA .	65	-	-		Total Depth 100 5 feet

Page 1 of 2 Date Drilled: 12/15/2009 Latitude: Not Determined Longitude: Not Determined Delevation: Not Determined Boring Location: See Site Plan Groundwater Dept: Agrox. 43 ft during drilling Logged By: LEC Remarks: North Abutment	Project Name: Bridge 8105 CR 7150 Project Number: 92-0970 Client: San Juan County Sile Location: San Juan County, New Mexics Rig Type: CME - 75 Drilling Method: 7" O.D. Hollow Stem Auger Sampling Method: 3pilt spoon sample Hammer Weight: 140 Ibs Hammer Falt: 30 Inches										
Soil Description	Depth (ft)	Sail Symbol	nscs	Recovery	Sample Type & Length (in)	Blows per 6"	3		(pcf) % Passing % Passing % Passing % Passing mindex Moisture Moisture		
SILTY SAND, tan to brown, fine-grained, loose to medium dense, damp	1 :		SM				O		o. ¥€	1	
SANDSTONE, tan to gray, fine-grained, highly to moderately weathered, moderately soft, weakly to moderately cemented slight odor (hydrocarbon?)	**************************************	14310			93 8	50/6					
	Copen		RK		88	50/6					
SILTSTONE, gray, moderately weathered, soft	2000	m			88 8	50/6					
	200000		RK	2	35-50/3 85 9						
	2000				9 \$3 6	50/8					
SANDSTONE, gray, fine-grained, moderately weathered, highly to moderately weathered, soft to moderately hard, weakly to moderately comented.	2000000	35-50/J 88									
	337			=		28-60/2					
2	47444		RK		\$3 5	\$0/5					
	4900000			2	5S 8	50/6					
SANDSTONE, gray, fine-grained, moderately weathered, highly to moderately weathered, soft to moderately hard, weakly to moderately cemented	557			-	8	154	7	7	1	1	
weakly to indicately define neo	8533		RK		SS 6	50/6					
OH YOU ONE AND ARREST OF THE PARTY OF THE PA	500			×	88 11	26-50/5					
SILTSTONE, gray, alightly weathered, moderately hard	20777			-	53 8	50/6					
	2507-00			-	SS 3	50/3					
	STATE OF THE PARTY		RK	-	SS 5	50/5					
	000-001	X		_	SS 4	50/4					
Total Depth 100.5 feet	2000000			-	88	50/5	-	-	-	+	

NOTE:
DATA FROM SIGNED AND SEALED GEOTECHNICAL REPORT,
SEE DRILLED SHAFT NOTE 11, SHEET NO. 5-4.

UR	6501 Americas Parkway Albuquerque, New Mexic p 505.855.7500 f 505.	o 87110	900
3			1
2			
1			-8
NO.	DESCRIPTION	DATE	B,
	REVISIONS		16.



SAN JUAN COUNTY
Public Works Department

MILITARY BRIDGE REPLACEMENT CR 7150 OVER GALLEGOS WASH BRIDGE NO. 9586

BORING LOGS - I

Project Name: Project Number: Client: Site Location: Rig Type: Drilling Method: Sampling Method: Hammer Weight: Hammer Fall:	92-0970 San Juan County San Juan County, New Mexico CME - 75 7" O.D. Hollow Stern Auger Split spoon sample	Date Drilled: 12/21/2009 Latitude: Not Determined Longitude: Not Determined Elevation: Not Determined Bering Location: See Site Plan Groundwater Depth: Approx. 4.5.11 during drilling Logged By: DRB Remarks: Channel	
Plasticity Index Moisture Control R	Samper of the Sa	Soil Description	
2.2	-2 85 SM 5 - 17	SAND with trace gravel, brown, fine- to urn-grained, loose, moist	
6364 85-98	SS SHALE	E, brown, highly weathered, moderately soft, massin	
34-9 24-3 50.0	on SS SANDS Weath	STONE, green-gray, clayey, fine-grained, highly hered, moderately soft to moderately hard, weakly inted	
30.40	98 11		
23-60	5S 10		
22-50	12 SHALE	, brown to gray, moderately weathered, moderately derately hard, massive to blocky	
500		brown to gray, moderately weathered, moderately derately hard, massive to blocky ray weathered tely hard	
40-503	4 SS 10 RK dark bro		
SON	ss green-gi	ray	
602.	92 rock	erminated at 88 foot depth due to auger refusal on upth 88 2 feet	

,	roin	of Ale	me:		aride-	o P4	15 0	R 7150		Page 1 of 2 Date Drilled: 12/16/2009				
			mber		2-09		ese. S	, (00		Lalitude: Not Determined				
C	lient	_			an J		Cour	nty.		Longitude: Not Determined				
			on:		an J	uan	Cou	ntv. New	Mexic					
	ig T				ME					Boring Location: See Site Plan				
	Drilling Method: 7" O.D. Hollow Stem Auger Sampling Method: Solit spoon sample								uger	Groundwater Depth: Approx. 3.5 ft during drilling Logged By: DRB				
Н	lamn	ner V	/elgh	t: 1	40 lb	19	. peace	inglies.		Remarks: Channel				
	lamm				0 inc									
Lap	orator	y Re	sults	ło				1 -						
ji.	ng	b	98		Type (n) (n)	very	SCS	Symbol	€					
(pol)	% Passing #200 Sieve	Plasticity Index	Moisture Content (%)	Blows per	Sample 8	Recovery	US)	Soil S	Depth (Soil Description				
6	名费	ā.	× 5	80	লু প			Ø,	-					
								H	3	SILTY SAND, brown, fine- to medium-grained, loose, moist				
	6.8			4-4-5	SS 18	S			3	∇				
					18	M			7	color change to green-gray				
	3.8			2-3-2	SS 18			119	10					
	"				18	\times	SM	143	12					
				2-5-5	ss		OW	11	18					
					18	\times		H	12					
				4-3-2	88			M	18					
					18	\times								
				16-50/6	88 12				25					
					12				26	SANDSTONE, green-gray, clayey, fine-grained, highly weathered, soft, weakly cemented				
				20-38-	85	=		100	30					
- 1				30/2	17	9			33	color change to tan				
				31-50/4	SS 10	25	RK	11111	33					
					10				37					
				58%	ss	200			38					
					6		-		43	SHALE, purple-gray, moderately weathered, moderately soft,				
				10.004	88	25			33	massive				
					11				47					
				50/6	ss		RK		38					
					6				53					
4	_	_	1			_								
									57.6500000000000000000000000000000000000	SHALE, purple-gray, moderately weathered, moderately soft, massive				
				50/3	\$S			-	58					
					\$8				61	color change to green-gray moderately soft to moderately hard				
									83	weakly fissile				
									87					
				500	20				98					
				50/4	88	-	RK		27					
									23					
									29 -					
									78					
				50/1	SS	\dashv			BY -	slightly weathered				
						- 1			8	moderately hard				
									勝-					
						1			88	SANDSTONE, light gray, clayey, fine-grained, slightly weathered, moderately hard, weakly to moderately cemented				
				50/2	\$\$	-			83-	weathered, moderately hard, Weakly to moderately cemented				
-		-1					RK		83					
		- 1					\		86	interbedded with thin layers of sandy shale				
								H	88					
+	+	+	+	5016	55.	-		12112	BOOK STATE	Total Depth 100.4 feet				
									183					
- 1		- 1	- 1	- 1	- 1				105					

NOTE:
DATA FROM SIGNED AND SEALED GEOTECHNICAL REPORT,
SEE DRILLED SHAFT NOTE 11, SHEET NO. 5-4.

URS	6501 Americas Parkway, NE Suite Albuquerque, New Mexico 87110 p 505.855.7500 f 505.855.7555	900
3		T
2		

DESCRIPTION REVISIONS

SAN JUAN COUNTY
Public Works Department

MILITARY BRIDGE REPLACEMENT CR 7150 OVER GALLEGOS WASH BRIDGE NO. 9586

BORING LOGS - II

	Proje Proje Client Site L Rig T Drillin Samp Hamr Hamr	ct Nu cocati yps: g Me ding I	on: thod: Wethor	od;	92-0 San San CME 7- O Bulk 140	Juar Juar Juar - 75 D H	Cou Cou S Hollow Split	onty unty, New Mex v Stem Auger	Date Drilled: 12/22/2009 Latitude: Not Determined Longitude: Not Determined Elevation: Not Determined Boring Location: See Size Plan Groundwater Depth Approx 4 ft during drilling Logged By: DRB Remarks: Channel
	Passing #200 Sirve		1 2	Blows per 6"	Sample Type	Recovery	nscs	Soil Symbol Depth (ft)	Soil Description
	8.5				A	Ī		- COOP-1200-100-100-100-100-100-100-100-100-10	SILTY SAND, brown, fine- to medium-grained, loose, mois wet
	14			2-1-2	SS 18	X			color change to green-gray interbedded with thin clay layers
				3-3-5	SS 18	×	SM	7-8000-0-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	fine- to coarse-grained with trace gravel and occasional thickay layers
				444	99 18	×		**************************************	fine- to medium-grained
				6-8-10	89 18	×		97-5000-cc-940	fine- to coarse-grained with trace gravel medium dense
				35-50/4	SS 10	×	RK	444000000	SHALE, yellow-brown, sandy, highly weathered, moderate, soft, massive
		1	T						SHALE, yellow-brown, sandy, highly weathered, moderately soft, massive
				50/3	\$8 3				color change to green-gray slightly weathered, moderately hard weakly fissile
				50/5	SS S	-	RK		color change to dark gray fresh, moderately hard fissile
				50/4	33	-		700	color change to green-gray
				50/4	SS 4	-	RK	870000000000000000000000000000000000000	SANDSTONE, light gray, fine-grained, fresh, moderately has weakly to moderately comented
+	-	-		10.2	2	-		100	Total Depth 100.2 feet

	1	_		<i>^</i>		Fax	(505) 3	ivenue , NM 874 27-7928 126-5721		Borehole B-6
		t Na					05. CF	7150		Date Drilled: 12/17/2009
	rojec Hient		mber		92-09 San J		Count	v		Latitude: Not Determined Longitude: Not Determined
		ocati	on:						Mexico	
	tig Ty				CME					Boring Location: See Site Plan
			thod:				nes n	Stem A	uger	Groundwater Depth: Approx. 3 ft during drilling Logged By: DRB
			/eigh	:	140 lb	s				Remarks: Channel
Н	lamn	ner F	all:	- 3	30 inc	hes				
-	-	ry Re		10	8.2	7		8	۵	
0	Sieve	A city	t (%)	s pe	20	Recovery	nscs	Soil Symbol	Depth (ft)	Soil Description
(bd)	% Passing #200 Sieve	Plasticity	Moisture Content (%)	Blows per	Sample Type & Length (no	Red	5	Soil	8	
-			·					145	1.	SILTY SAND with gravel, brown, fine- to coarse-grained,
									APPROXIMENT	☑ loose, moist wel
				3-3-1	5S 18	X		18	7	
				2-2-2	00				10	
				- 6-6	SS 18	\times	5	133	13	color change to green-gray
				3-4-5	SS 18	V			100	
				344					0000-00000000	
					\$S 18	X				fine-grained
				44-8	SS 18	X	SM		200	
				3-5-7	SS 18	X			30	trace gravei
				3-3-4	55 18	×			355	no recovery
				3-4-5	SS 18	X			380	
									35	
				4-10-11	SS 18	X			碧	
				6-3-9	00				48	
				0.2.9	\$S 18	\times			5555	interbedded with thin clay layers
1			-			+			83 85	SILTY SAND with gravel, brown, fine- to coarse-grained,
				0-0-0	39				COCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOC	loose, moist
					89			114	83	very loose SPT 18" under weight of hammer
							SM		65	
								14	85	
				5-9-8	SS 16	×			29 T	interbedded with thin clay layers
								16	33	increased gravel content 72 to 74 feet
						1		dal	38	SANDSTONE, green-gray, clayey, fine-grained, moderately weathered, moderately hand, weakly to moderately cemented
									復日	weathered, moderately hard, weakly to moderately comented
				50/4	SS 4				1	
							RK		83	
									87	
				600	45				88 -	fresh - hard drilling
					1				000	Boring terminated at 90 foot depth due to auger refusal on
									956	sandstone Total Depth 90,1 feet
									97	
									189	
				- 1					183	
									185	
	- 1	- 1	- 1			- 1	- 1	- 1	108	

NOTE: DATA FROM SIGNED AND SEALED GEOTECHNICAL REPORT, SEE DRILLED SHAFT NOTE 11, SHEET NO. 5-4.

UR	6501 Americas Parkway Albuquerque, New Mexic p 505.855.7500 f 505.	, NE Suite 9 to 87110 855.7555	900
3			
2			
1		- G	
NO,	DESCRIPTION	DATE	8
	REVISIONS		

SAN JUAN COUNTY
Public Works Department

MILITARY BRIDGE REPLACEMENT CR 7150 OVER GALLEGOS WASH BRIDGE NO. 9586

BORING LOGS - III

DESIGNED BY: XXX DRAWN BY: RPV CHECKED BY: RBB

Project Name: Bridae 8105, CR 7150 Project Number: 92-0970 Client: San Juan County Site Location: San Juan County, New Mexico Killy Type: CME - 75 Drilling Method: 7- 0.D. Hollow Stem Auger Sampling Method: Bulk, Ring and Spilt spoon same Hammer Weight: 140 lbs Hammer Fall: 30 inches										Date Drilled: 12/15/2009 Latitude: Not Determined Longitude: Not Determined Longitude: Not Determined Elevation: Not Determined Bering Location: See Site Plan Groundwaler Depth: Approx. 18 ft during drilling 1 Logged By: LEC Remarks: South Abulment				
-	Passing P200 Sleve	Plasticity &	3	Blows per 6"	Sample Type & Length (m)	Recovery	nscs	Soil Symbol	Depth (ft)	Soil Description				
				10-11	A MC 12		GP	χ,υ		GRAVEL with sand and cobbles, tan to gray, fine-to coarse-gramed, loose, damp (FILL to approx. 12 ft depth) SILTY SAND, tan, fine-to coarse-grained, loose, damp				
				12-11	MC 12									
				7-8	MC 12				COO-COO	no recovery ⊊moist				
				3-3-4	5S 18	×			21	wel				
				4-6-5	55 18	×			A 2000 A					
				4 5-5	88 18	X	SM		2857255	color change to green-gray				
				2-2-2	SS 18	X			25555					
				3-2-2	SS 18	X			10 A	heaving sand in auger interbedded with thin day layers				
				7-5-7	SS 18	X			455	fine- to medium-grained				
				4-7-10	86 18	×			995778785 995778785					
				4-8-10	99 89 18	×	1		50000000000000000000000000000000000000	SILTY SAND, Ian, fine-to coarse-grained, loose, damp				
				5-7-6	55 18	×	SM		23					
							The second second		20000000000000000000000000000000000000	fine-grained unable to drive sampler due to approx 7 feet of heaving sand in auger advanced auger without sampling				
					٨		CL		Consistence	SANDY LEAN CLAY, gray, moist to wet				
1	1		1	201	0	1	RIK.		100000 100000 100000 100000 100000 100000 100000 100000 1000	SANDSTONE (?), fresh, hard no recovery auger refusal at 99.5 foot depth Total Depth 99.5 feet				

NOTE: DATA FROM SIGNED AND SEALED GEOTECHNICAL REPORT, SEE DRILLED SHAFT NOTE 11, SHEET NO. 5-4.

URS	6501 Americos Porkwoy Albuquerque, New Mexic p 505.855.7500 1 505.	o 87110	900
3			-
2			
1			
NO.	DESCRIPTION	DATE	B
	REVISIONS	100	
CANMILIA	N		

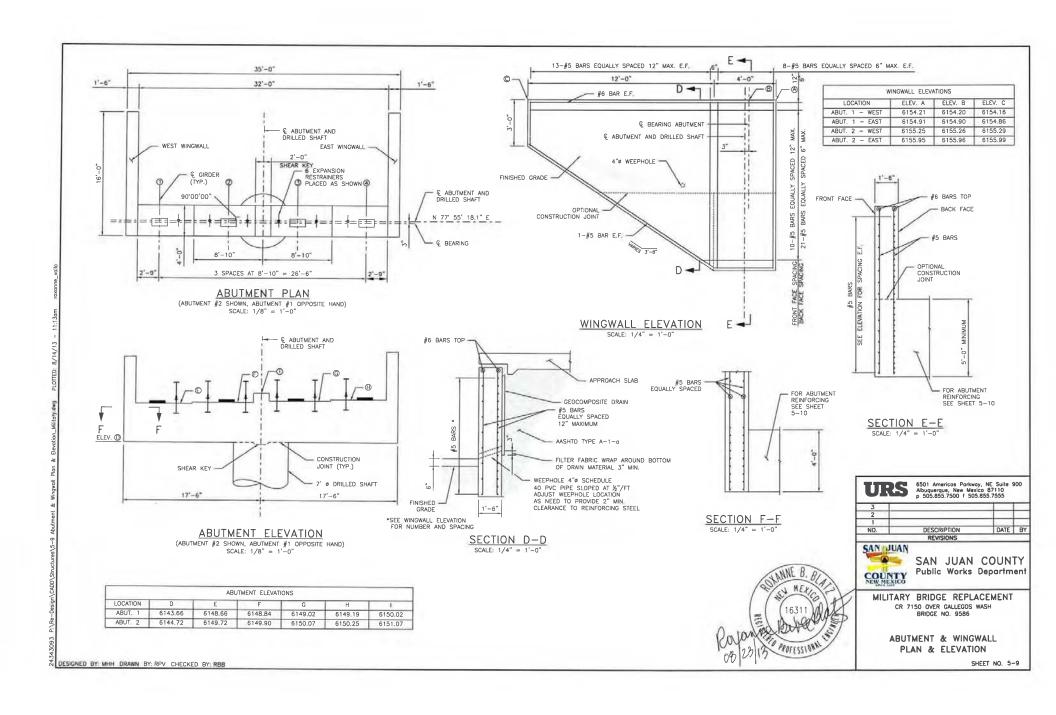
COUNTY

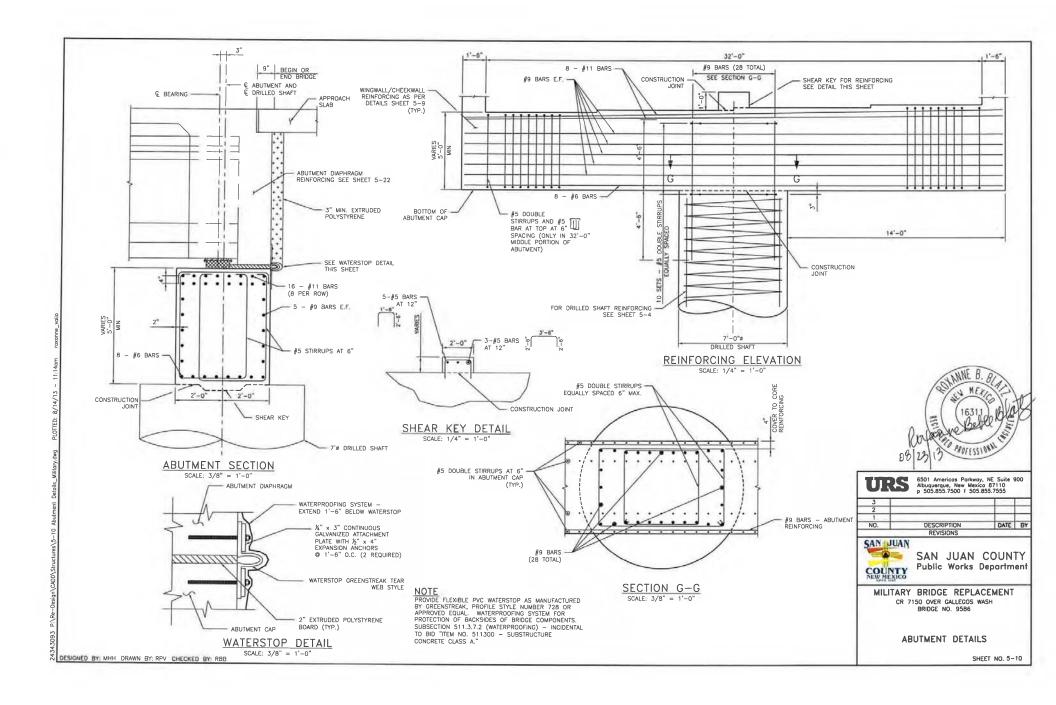
SAN JUAN COUNTY Public Works Department

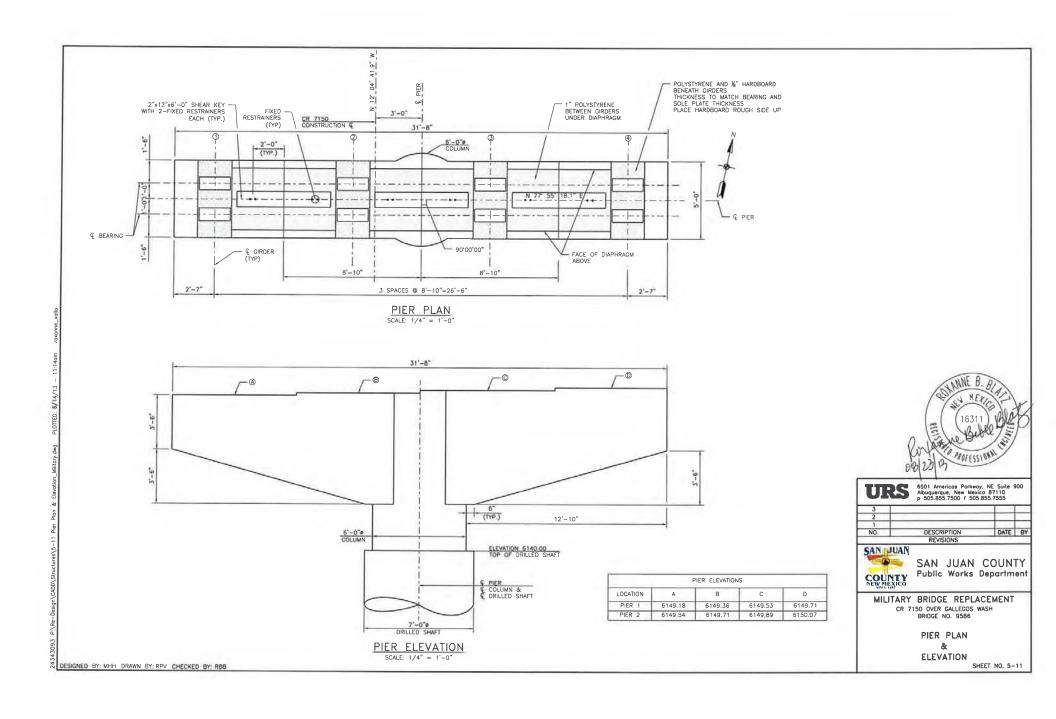
MILITARY BRIDGE REPLACEMENT

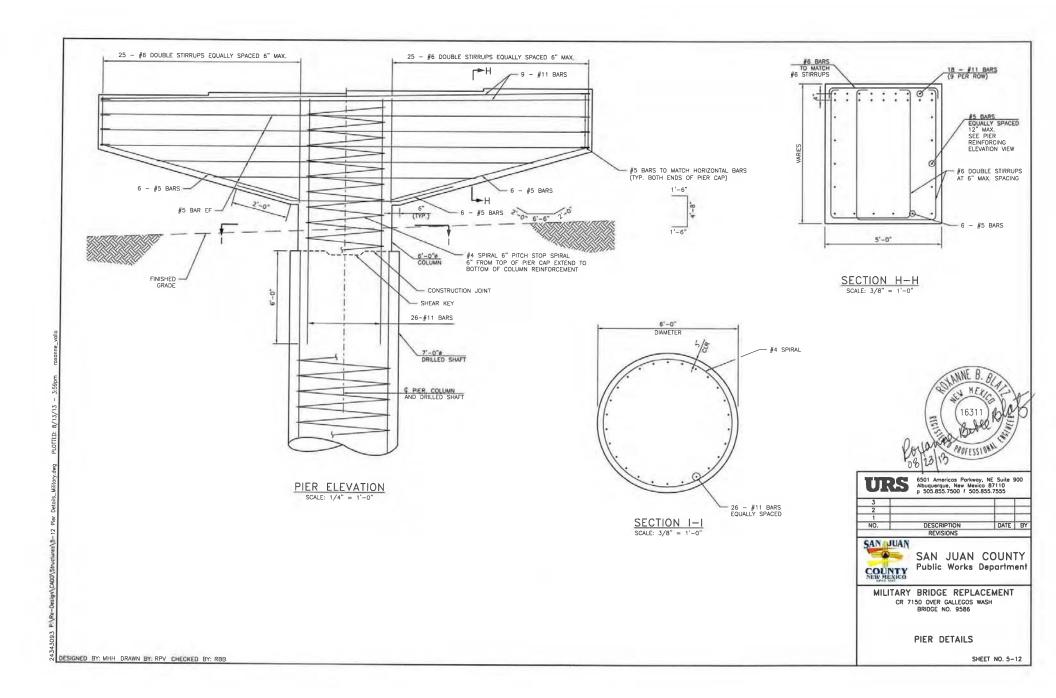
CR 7150 OVER GALLEGOS WASH
BRIDGE NO. 9586

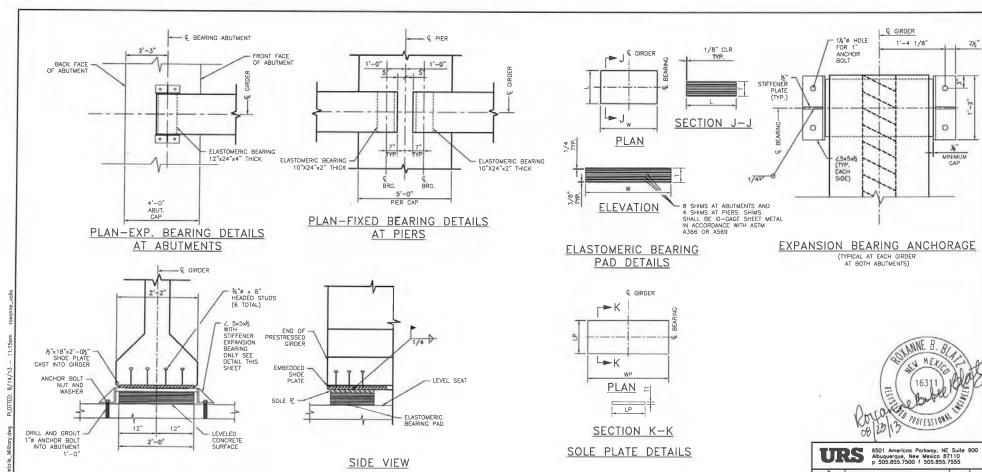
BORING LOGS - IV











BEARING SECTION

				BEAK	ING	SCI	HEDULI				
	SI	OLE PLA	ATE			E	ELASTOMERIC PAD				
LOCATION	LP	WP	T1	L	W	T	NUMBER	DESIGN LO	AD (SERVICE)		
ABUT. 1	1'-0"	2'-3"	1,35"	1'-0"	2'-0"	4.0	8	126.1	79.1		
PIER 1	10"	2"-3"	135"	10"	2"-0"	2.0	4	143.1	91.1		
PIER 2	10*	2'-3"	1/5"	10"	2'-0"	2.0"	4	143.1	91.1		
ABUT 2	1'-0"	2 -3	135"	1'-0"	2'-0"	4.0"	8	126.1	79.1		

- NOTES

 1. ELASTOWER SHALL BE GRADE 3, 55 DUROMETER (SHORE A), AND SHALL HAVE A MINIMUM SHEAR MODULUS OF 130 PSI.

 2. ELASTOWERIC BEARING PADS SHALL BE PLACED ON A LEVEL SEAT. CORRECTIVE MEASURES SHALL BE TAKEN AS NECESSARY TO ENSURE THAT THE BEARING SEAT IS LEVEL WITHIN A TOLERANCE OF 0.005 OF THE NOMINAL PAD DIMENSIONS.

 3. TOP AND BOTTOM SURFACES OF THE SOLE PLATES SHALL BE FLAT WITHIN A ½2" TOTAL INDICATOR READING. SURFACE FINISHES SHALL BE FLAT WITHIN A ½2" THE PLATE THICKNESS SHOWN IS THE FINISHED THICKNESS.

 4. SURFACE PREPARATION AND COATING OF THE SOLE PLATE SHALL BE IN ACCORDANCE WITH SECTION 545 OF THE MODIT STANDARD SPECIFICATIONS.

 5. SEE PRESTRESSED GIRDER SHEET 5-15 FOR GIRDER SHOE PLATE DETAILS.

 6. DUE TO CONSTRUCTION TOLERANCE, FIELD WELD SHOE PLATE TO SOLE PLATE AFTER GIRDER PLACEMENT.



REVISIONS



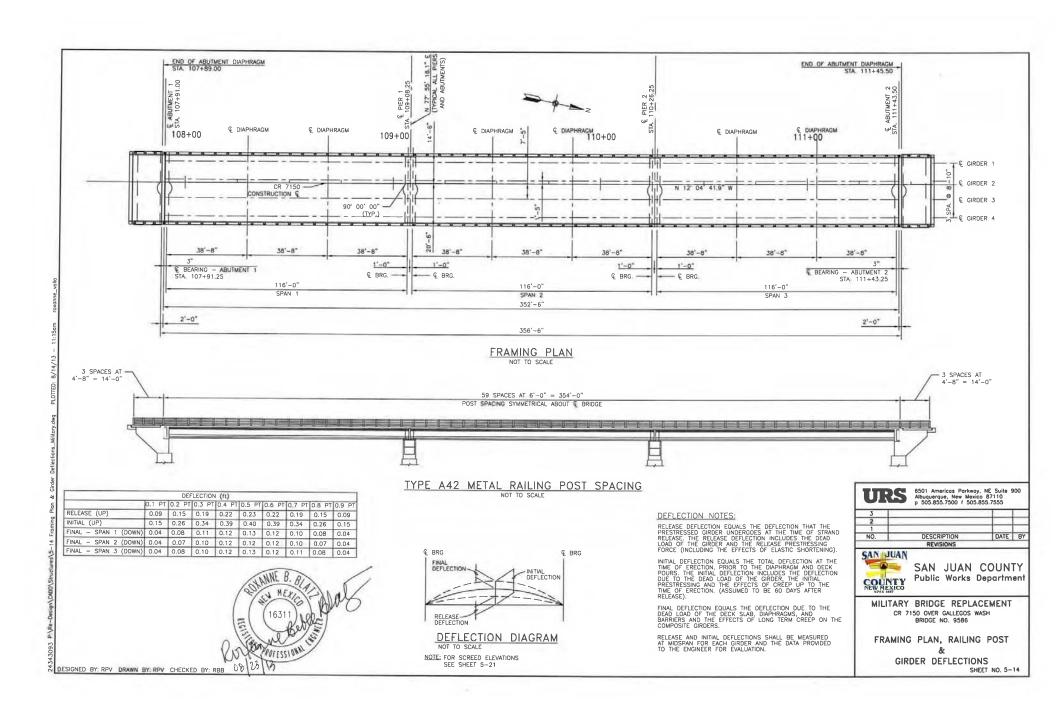
SAN JUAN COUNTY Public Works Department

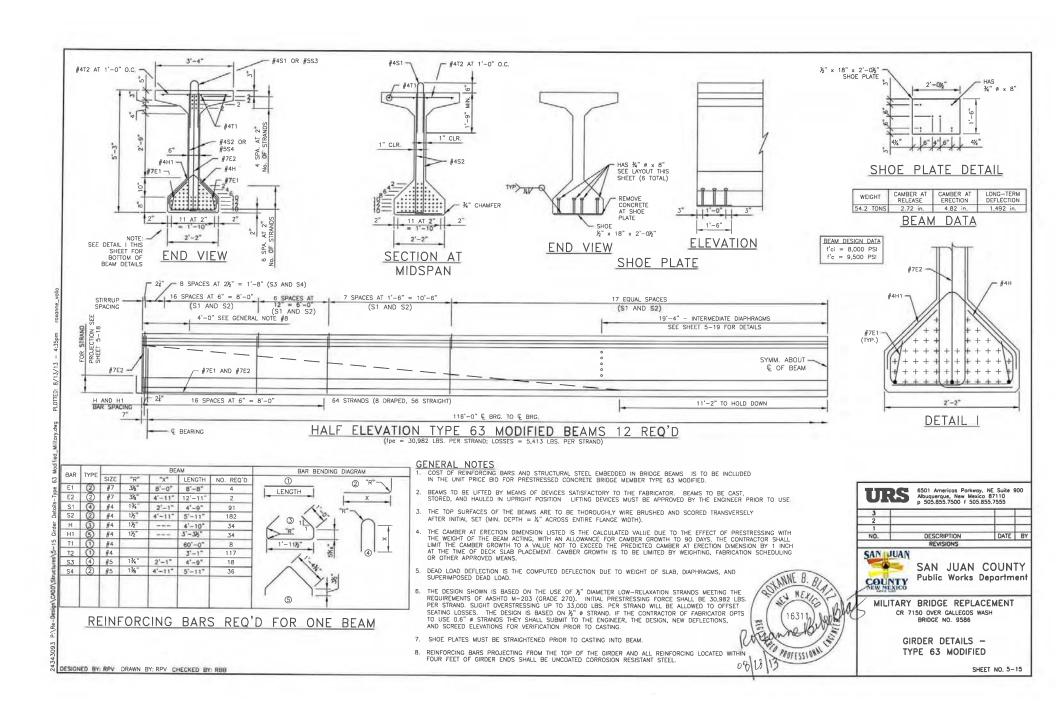
MILITARY BRIDGE REPLACEMENT CR 7150 OVER GALLEGOS WASH BRIDGE NO. 9586

BEARING DETAILS

SHEET NO. 5-13

DESIGNED BY: RPV DRAWN BY: RPV CHECKED BY: RBB





ALL PROVISIONS OF 518 - PRESTRESSED CONCRETE MEMBERS OF THE NEW MEXICO DEPARTMENT OF TRANSPORTATION'S STANDARD SPECIFICATION SHALL APPLY EXCEPT AS MODIFIED BELOW,

518.3.5.1 WORKING DRAWINGS (PRESTRESSED CONCRETE MEMBER) THE CONTRACTOR SHALL FURNISH WORKING DRAWINGS IN CONFORMITY WITH SUBSECTION 105.2 "PLANS AND THE CONTRACTOR SHALL FURNISH WORKING DRAWINGS IN CONFORMITY WITH SUBSECTION 105.2 "PLANS AND WORKING DRAWINGS" FOR ALL PRESTRESSED CONCRETE MEMBERS. THE WORKING DRAWINGS THAT ARE SUBMITTED TO THE MINDOT SHALL CONTAIN THE ENDORSEMENT SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF NEW MEXICO AND WITH 5 YEARS EXPERIENCE WITH PRESTRESSED CONCRETE MEMBER. MINDOT REVIEW OF THE WORKING DRAWINGS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY FOR ADEQUACY OF THE PRESTRESSED MEMBERS, THE CONTRACTOR SHALL SUBMIT SUPPORTING CALCULATIONS FOR THE WORKING DRAWINGS. THE MINDOT WILL REVIEW THE INITIAL SUBMITTAL WITHIN 30 CALENDAR DAYS. ANY RE-SUBMITIALS WILL BE REVIEWED WITHIN 14 CALENDAR DAYS.

THE WORKING DRAWINGS SHALL INCLUDE THE FOLLOWING:

- 13 ALL LINIT DIMENSIONS
- LOCATION, SIZE, AND TYPE OF PRESTRESS STRANDS
- INITIAL AND FINAL JACKING FORCES.
 LOCATION, DESCRIPTION, AND DETAIL OF STRUCTURAL REINFORCING ITEMS.
- LOCATION OF ALL HOLD-DOWN DEVICES.
 LOCATION AND SHOP DRAWINGS OF ALL STEEL ITEMS. SHOP DRAWINGS SHALL BE PER
- AASHTO/NSBA G1.3, SHOP DRAWINGS PRESENTATION GUIDELINES. DETAILS FOR STEEL DIAPHRAGM CONNECTIONS.
- BLOCKOUT AND KEYWAY DIMENSIONS, IF ANY.
 LOCATIONS AND DETAILS OF DEBONDED STRANDS
- 10) REBAR SCHEDULE PER ACI DETAILING MANUAL SP-66
 11) FRAMING PLAN WITH THE FABRICATORS MARK NUMBERS.
- 12) EMBEDS FOR OVERHANG BRACKETS AND PERMANENT STEEL DECK FORMS.
- 13) STRESSES IN THE TOP AND BOTTOM OF THE PRE-STRESSED CONCRETE MEMBERS DURING DETENSIONING OF THE STRANDS.
- 14) THE PREDICTED GIRDER SHORTENING, CAMBER AT RELEASE, AND CAMBER AT 90 DAYS.
- 15) DETAIL DRAWINGS, WRITTEN PROCEDURES, AND CALCULATIONS FOR ANY SPECIAL DESIGN SUCH AS CAMBER CONTROL USING PRESTRESSING TOP STRANDS.

518.3.5.2 NOTIFICATION OF FABRICATION FOR PRESTRESSED CONCRETE MEMBERS

A) START OF WORK, PRIOR TO BEGINNING THE WORK, THE CONTRACTOR SHALL PROVIDE WRITTEN NOTICE TO THE QUALITY ASSURANCE (QA) REPRESENTATIVE, AS DEFINED IN SUBSECTION 518.3.5.3, SO THAT QA SERVICES MAY BE PROVIDED. THE WRITTEN NOTICE SHALL BE RECEIVED AT LEAST SEVEN DAYS BEFORE FABRICATION BEGINS.

THE ANTICIPATED PRODUCTION SCHEDULE, INCLUDING THE START OF WORK, PHASE WORK AND SHIPMENT DATES SHALL BE SUBMITTED IN WRITING TO THE OA REPRESENTATIVE BEFORE ANY WORK BEGINS FABRICATION SHALL NOT BE STARTED UNTIL THE WORKING DRAWINGS SUBMITTAL HAVE BEEN RETURNED WITH THE NMDOT ENGINEER'S REVIEW STAMP, INDICATING REVIEWED, NO EXCEPTION TAKEN; OR REVIEWED, REVISE AS NOTED, AND DELIVERED TO THE CONTRACTOR'S SITE OF FABRICATION.

- B) PRODUCTION SCHEDULE CHANGES. ACCELERATED CHANGES TO THE PROPOSED PRODUCTION SCHEDULE, INCLUDING START OF WORK, PHASE WORK, AND SHIPMENT DATES, SHALL REQUIRE ADVANCE WRITTEN NOTIFICATION BE PROVIDED TO THE OA REPPRESENTATIVE THE WRITTEN NOTICE OF CHANGE SHALL BE RECEIVED AT LEAST 48 HOURS BEFORE FABRICATION BEGINS, UNLESS OTHERWISE APPROVED IN WRITING BY THE QA REPRESENTATIVE.
- C) NOTICE OF SHIPMENT. THE QA REPRESENTATIVE SHALL BE NOTIFIED IN WRITING, AT LEAST 72 HOURS BEFORE SHIPMENT OF PRESTRESSED MEMBERS TO THE JOB SITE.
- D) NOTIFICATION. FAILURE TO NOTIFY THE DESIGNATED QA REPRESENTATIVE AS DESCRIBED IN THIS SECTION MAY BE CAUSE FOR REJECTION.

518.3.5.3 INSPECTION OF PRESTRESSED CONCRETE MEMBERS.

A) QUALITY CONTROL, AND QUALITY ASSURANCE, QUALITY CONTROL. (OC) OF PRESTRESSED CONCRETE FABRICATION IS THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL DESIGNATE A OC MANAGER WHO STALL BE RESPONSIBLE FOR PRODUCT QUALITY REQUIREMENTS AS DEFINED IN THE SPECIFICATIONS AND THE CONTRACTOR'S. APPROVED QC PLAN (QCP). THE QC MANAGER SHALL POSSESS AND MAINTAIN CERTIFICATION AT LEVEL II MINIMUM, FORM THE PRESTRESSED CONCRETE INSTITUTE (PCI), AND SHALL HAVE ONE YEAR MINIMUM OF CONSTRUCTION RELATED EXPERIENCE. THE QC MANAGER SHALL NOT BE SUPERVISED BY THE CONTRACTOR'S PRODUCTION SECTION. QUALITY ASSURANCE AND PRODUCTION ACCEPTANCE ARE THE PREROGATIVES OF THE NMDOT. THE DEPARTMENT'S INSPECTOR WILL BE THE DA REPRESENTATIVE AND ACTS FOR AND ON BEHALF OF THE NMBOT ON ALL MATTERS WITHIN THE SCOPE OF THE CONTRACT DOCUMENTS OA ADMINISTRATION WILL BE PERFORMED TO THE EXTENT NECESSARY TO ASSURE CONTRACT

REPEATED OUT OF TOLERANCE WORK, INCLUDING DIMENSIONAL NON-CONFORMANCE, SHALL BE CONSIDERED RECURRING DEFICIENCIES. RECURRING DEFICIENCIES AS EVIDENCE THAT REQUIRED OC IS NOT BEING PROVIDED. WHEN THE QA REPRESENTATIVE DETERMINES THAT IFAI REQUIRED QC IS NOT BEING PROVIDED. WHEN THE UR REPRESENTATIVE DETERMINES THAT PABRICATION DEPERATIONS ARE PRODUCING RECURRING DEFECTS THAT DO NOT CONFORM TO THAT CONTRACT AND THE QCP REQUIREMENTS, THE CONTRACTOR WILL BE NOTIFIED THAT THE PRESENT WORK IS UNACCEPTABLE. WORK SHALL NOT CONTINUE UNTIL THE QC MANAGER HAS SUBMITTED A WRITTED PROPOSAL ADDRESSING CORRECTIVE PROCEDURES THAT THE CONTRACTOR WILL TAKE TO PREVENT RECURRENCE OF THE NON CONFORMING WORK. FABRICATION SHALL NOT RESUME UNTIL THE PROPOSAL HAS BEEN REVIEWED AND ACCEPTED IN WRITING BY THE QA REPRESENTATIVE.

QUALITY CONTROL PLAN (QCP). THE CONTRACTOR SHALL SUBMIT A WRITTEN QCP TO THE QA REPRESENTATIVE PRIOR TO THE BEGINNING OF FABRICATION. THE QCP SHALL ISE REVIEWED AND APPROVED IN WRITING BY THE CONTRACTOR'S QC MANAGER. THE QCP SHALL UST ALL METHODS APPROVED IN WRITING BY THE CONTRACTOR TO UNMADER. THE OUP SHALL LIST ALL ME HOUS UTILIZED BY THE CONTRACTOR TO ENSURE THAT THE WORK CONFORMS TO CONTRACT REQUIREMENTS. THE COS SECTION IS RESPONSIBLE FOR ESTABLISHING THE OUP, AS WELL AS CONFORMANCE TO THE OUP, FABRICATION SHALL NOT BEGIN UNIT. THE OUP HAS BEEN REVIEWED AND ACCEPTED IN WRITING BY THE QA REPRESENTATIVE

IF WORK METHODS FOR A SPECIFIC PROJECT OR PRODUCT ARE NOT LISTED IN THE ORIGINAL QCP, THE CONTRACTOR SHALL SUBMIT WRITTEN ADDENDA ADDRESSING THE PROPOSED METHODS THAT ARE NECESSARY TO MEET CONTRACT REQUIREMENTS. FABRICATION SHALL BEGIN UNTIL THE ADDENDA HAVE BEEN REVENDE AND ACCEPTED IN WRITING BY THE OA REPRESENTATIVE.

THE OCP SHALL ADDRESS THE FOLLOWING.

- NAMES AND QUALIFICATIONS OF THE QC MANAGER AND PERSONNEL CONDUCTING INSPECTION AND TESTING, THIS LIST SHALL BE UPDATED WHEN CHANGES IN PERSONNEL OCCUR. COPIES OF THE TRAINING CERTIFICATES OF THE PERSONNEL CONDUCTING INSPECTION AND TESTING SHALL BE SUBMITTED TO DA REPRESENTATIVE.
- LIST OF MATERIAL SUPPLIERS AND CERTIFIED TESTING LABORATORIES USED. THE LIST SHALL BE UPDATED WHEN VENDORS CHANGE.
 MATERIALS SAMPLING AND TESTING SCHEDULE, SHOWING TESTING METHODS AND FREQUENCIES.
- OC INSPECTION METHODS AND PROCEDURES FOR ALL STAGES OF FABRICATION OPERATIONS.
 METHODS FOR CURING PRODUCTS AND TESTING SPECIMENS.

METHOD AND SEQUENCE FOR TENSIONING STRANDS, INCLUDING METHODS USED FOR VERIFYING EQUAL DISTRIBUTION OF JACKING FORCES.

MEXICO 1631 DA PROIESSIONAL 6501 Americas Parkway, NE Suite 900 Albuquerque, New Mexico 87110 p. 505.855.7500 f. 505.855.7555

DESCRIPTION DATE BY NO. REVISIONS SAN JUAN

> SAN JUAN COUNTY **Public Works Department**

MILITARY BRIDGE REPLACEMENT CR 7150 OVER GALLEGOS WASH BRIDGE NO. 9586

PRESTRESSED CONCRETE GIRDER NOTES

SHEET NO. 5-16

DESIGNED BY: XXX DRAWN BY: XXX CHECKED BY: XXX

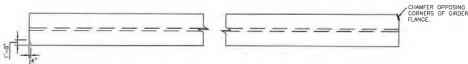
- METHOD SEQUENCE OF DETENSIONING STRANDS.
 WRITTEN REPORT FORMAT FOR MATERIALS SAMPLING, TESTING, AND INSPECTION FOR ALL PHASES
 OF THE WORK.
- 9) COPIES OF ALL CONCRETE MIX DESIGN TO BE USED, INCLUDING MIX DESIGN COMPUTATIONS AND TEST DATA.
- 10) PROVISIONS FOR FABRICATION OPERATIONS DURING COLD, WINDY, OR HOT WEATHER CONDITIONS.
- PROCEDURES FOR PATCHING SMALL PRODUCTION HOLES AND HOLES LEFT BY STRAND HOLD-DOWN
- 12) PROCEDURES FOR IDENTIFYING, EVALUATING AND REPORTING DEFECTS. INCLUDING DIMENSIONAL NON-CONFORMANCE, DISCOVERED DURING QC/QA INSPECTIONS AND TESTING.

 13) PROCEDURES FOR NOTIFYING THE QA REPRESENTATIVE AND THE STATE BRIDGE ENGINEER OF
- STRUCTURAL DEFECTS, AND SUBMITTAL OF WRITTEN PROPOSAL FOR REPAIR
- FREQUENCY, QC INSPECTION AND TESTING AT ALL INTERVALS OF FORMING, TENSIONING, STEEL AND CONCRETE PLACEMENT, CURING, AND STORAGE OPERATIONS SHALL BE PERFORMED IN ACCORDANCE
 WITH THE ACCEPTED OCP AND CONTRACT REQUIREMENTS THE OCP SHALL CONTAIN PROVISIONS FOR
 INCREASED FREQUENCIES OF INSPECTION AND TESTING WHEN OPERATIONS OR PRODUCTS DO NOT
 CONFORM TO THE CONTRACT.
- D) WRITTEN RECORDS AND REPORTS. THE QC MANAGER SHALL REVIEW AND SUBMIT THE FOLLOWING COMPLETED RECORDS AND REPORTS TO THE QA REPRESENTATIVE BEFORE THE PRODUCT RECEIVES ACCEPTANCE BY
- PRESTESSED STEEL TENSIONING REPORTS FOR EACH SETUP, SHOWING THE JACKING FORCE CALCULATIONS; INITIAL AND FINAL JACKING FORCE USED; CALCULATED AND FINAL NET MEASURED ELONGATION; APPLICABLE STRESSING CORRECTIONS FOR SEATING, SLIPPAGE, SHORTENING, ROTATION MOVEMENT, AND TEMPERATURE; CERTIFIED MILL TEST REPORTS FOR PRESIESSED STEEL USED.
- 2) CONCRETE A DAILY REPORT OF EACH MIX DESIGN USED, SHOWING THE FRESH CONCRETE SLUMP. TEMPERATURE, UNIT WEIGHT, AND AIR CONTENT (IF SPECIFIED). THE DAILY REPORT SHALL ALSO INCLUDE THE FOLLOWING DATA:
- a) DATE AND TIME OF CASTING
- BED AND SETUP LOCATIONS
- AMBIENT CONDITIONS
- TOTAL CUBIC YARDS PLACED
- GIRDER MARK AND UNIQUE SUB-MARK IDENTIFICATIONS ACTUAL PRODUCT CURING TEMPERATURE CHARTS OR GRAPHS
- ACTUAL CURING ENCLOSURE HUMIDITY CHARTS OR GRAPHS AVERAGE RELEASE STRENGTH IN PSI
- g) AVERAGE RELEASE STRENGTH IN PSI h) DATE AND TIME OF RELEASE STRENGTH
- i)COPIES OF INDIVIDUAL BATCH TICKETS WHEN REQUESTED BY THE QA REPRESENTATIVE
- 3) PRE-POUR INSPECTION RECORDS SHALL INCLUDE THE ITEMS TO BE CHECKED AS LISTED IN THE QCP.
- 4) POST-POUR INSPECTION RECORDS SHALL INCLUDE THE ITEMS TO BE CHECKED AS LISTED IN THE OCP. THESE RECORDS SHALL INCLUDE ALL DISCOVERED VARIANCES FROM PRODUCT DIMENSIONAL TOLERANCES.
 5) REPORT OF MINOR REPAIRS MADE TO EACH INDIVIDUAL PRODUCT.
- 6) THE FOLLOWING WRITTEN RECORDS SHALL BE SUBMITTED TO THE QA REPRESENTATIVE BEFORE PRODUCT SHIPMENT:
- SHIPMENT:

 (a) LENGTH MEASUREMENT OF BEAMS WITHIN THREE DAYS PRIOR TO SHIPPING.

 (b) PRODUCT CAMBER MEASUREMENT WITHIN SEVEN DAYS PRIOR TO SHIPPING.

 (c) STEEL AND METAL. FOR REINFORCING BARS, WELDED WIRE FABRIC, PLATE STEEL, AND MISCELLANEOUS STEEL AND METAL PRODUCTS ARE COVERED UNDER SECTION 540 STEEL REINFORCING AND SECTION 541 STEEL STRUCTURES.



TOP FLANGE CHAMFER DETAIL

O SERVICE STORY

UR	6501 Americas Parkway Albuquerque, New Mexic p 505.855.7500 f 505.8	, NE Suite 9 o 87110 355.7555	900
3			
2			
1			
NO.	DESCRIPTION	DATE	B
	REVISIONS		
SANJU	AN		

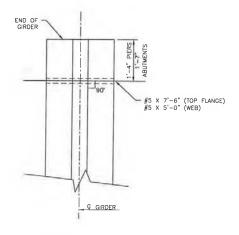
SAN JUAN COUNTY **Public Works Department**

MILITARY BRIDGE REPLACEMENT CR 7150 OVER GALLEGOS WASH BRIDGE NO. 9586

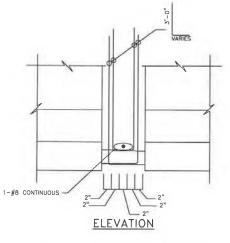
PRESTRESSED CONCRETE GIRDER NOTES & CHAMFER DETAIL

SHEET NO. 5-17

DESIGNED BY: XXX DRAWN BY: RPV CHECKED BY: RBB

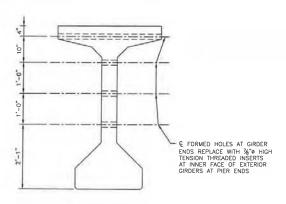


SECTION FORMED HOLE LOCATIONS AND REINFORCING AT GIRDER ENDS SCALE: &"=1"



CONTINUITY CONNECTION DETAIL

NO SCALE



SECTION
FORMED HOLE AND INSERT
LOCATIONS FOR PIER
DIAPHRAGM REINFORCEMENT

SCALE: 1/2"=1"

NOTES

1. INSERTS SHALL BE %"Ø HIGH TENSION THREADED INSERTS.

 FOR INSERT LOCATIONS FOR INTERMEDIATE DIAPHRAGMS, SEE SHEET 5-19.



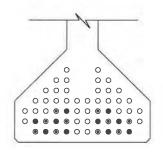
OXANNE B.

NEXIC

16311

- O STRANDS CUT FLUSH WITH GIRDER END AND COATED WITH ASPHALTIC SEALANT
- EXTENDED STRANDS
- EXTENDED STRANDS FOR OPPOSITE GIRDER

EXTEND 20 STRANDS AS SHOWN, 10 STRANDS AT EACH GIRDER END.



NOTE: AT EXTERIOR GIRDER FASCIA, BEND EXTENSION OF PRESTRESSED STRANDS TO MAINTAIN 2" CLEAR FROM FACE OF DIAPHRAGM





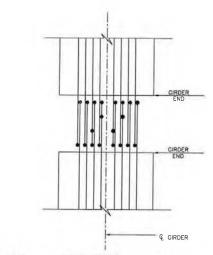
SAN JUAN COUNTY Public Works Department

MILITARY BRIDGE REPLACEMENT

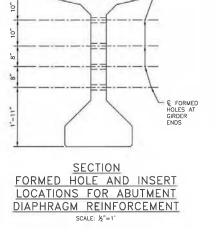
CR 7150 OVER GALLEGOS WASH
BRIDGE NO. 9586

MISCELLANEOUS GIRDER DETAILS

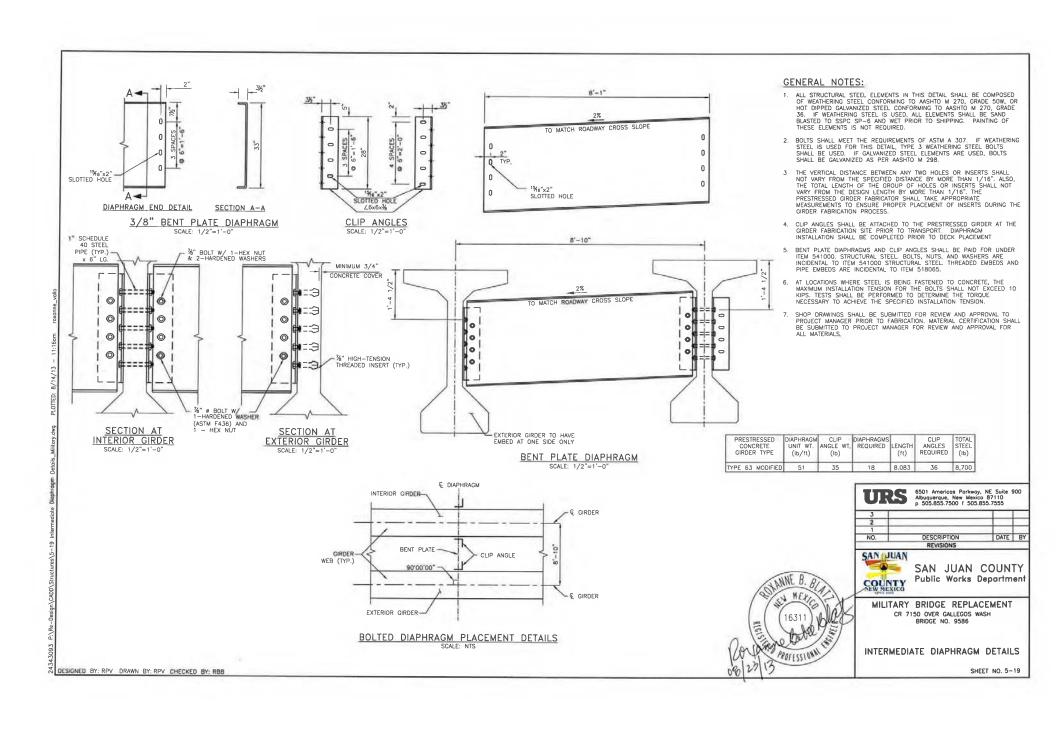
SHEET NO. 5-18

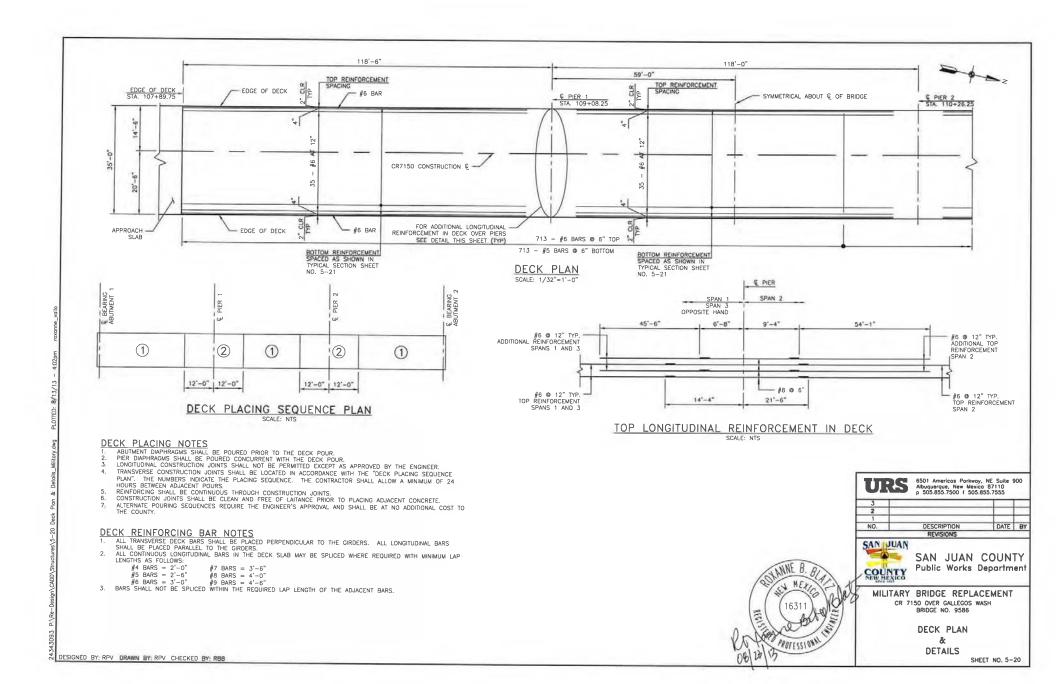


PLAN - EXTENDED STRANDS



DESIGNED BY: RPV DRAWN BY: RPV CHECKED BY: RBB





SCREED ELEVATIONS

		& BEARING ABUT #1	0.1 PT	0.2 PT	0.3 PT	0.4 PT	0.5 PT	0.6 PT	0.7 PT	0.8 PT	0.9 PT	€ PIER #1
	LEFT EDGE OF DECK	6155.12	6155.19	6155.26	6155.33	6155.38	6155.42	6155.45	6155.47	6155.47	6155.47	6155.47
П	© GIRDER #1	6155.20	6155.28	6155.35	6155.41	6155.47	6155.51	6155.53	6155.55	6155.56	6155.56	6155.55
-	€ GIRDER #2	6155.38	6155.45	6155,53	6155.59	6155.64	6155.68	6155.71	6155.73	6155.74	6155.73	6155.73
Į₹	CONSTRUCTION €	6155.41	6155.48	6155.55	6155.62	6155.67	6155.71	6155.74	6155.76	6155.76	6155.76	6155.76
S,	e omocii go	6155.55	6155.63	6155.70	6155.77	6155.82	6155.86	6155.89	6155,91	6155.91	6155.91	6155.91
Ш	€ GIRDER #4	6155.73	6155.81	6155.88	6155.94	6156.00	6156.04	6156.07	6156.08	6156.09	6156 09	6156.08
L	RIGHT EDGE OF DECK	6155.82	6155.89	6155,96	6156.03	6156.08	6156.12	6156.15	6156,17	6156.17	6156.17	6156.17

		© PIER #1	0.1 PT	0.2 PT	0.3 PT	0.4 PT	0.5 PT	0.6 PT	0.7 PT	0.8 PT	0.9 PT	€ PIER #2
	LEFT EDGE OF DECK	6155,47	6155.54	6155.61	6155.68	6155,73	6155.77	6155.80	6155.82	6155.83	6155.83	6155.82
	© GIRDER #1	6155.55	6155.63	6155.70	6155.76	6155.81	6155.85	6155,88	6155_90	6155.91	6155.91	6155.91
2	€ GIRDER #2	6155.73	6155.80	6155.87	6155.94	6155.99	6156.03	6156.06	6156.08	6156.09	6156.09	6156.08
18	CONSTRUCTION ©	6155.76	6155.83	6155.90	6155.97	6156.02	6156.06	6156.09	6156.11	6156.12	6156.12	6156.11
S	C 110	6155.91	6155.98	6156.05	6156.11	6156.17	6156.21	6156.24	6156.26	6156.26	6156.26	6156.26
	€ GIRDER #4	6156,08	6156.16	6156.23	6156.29	6156.34	6156.39	6156.41	6156.43	6156.44	6156.44	6156.44
L	RIGHT EDGE OF DECK	6156.17	6156.24	6156.31	6156.38	6156.43	6156.47	6156_50	6156.52	6156.53	6156.53	6156.52

_		© PIER #2	0.1 PT	0.2 PT	0.3 PT	0.4 PT	0.5 PT	0.6 PT	0.7 PT	0.8 PT	0.9 PT	© BEARING ABUT #2
L	LEFT EDGE OF DECK	6155.82	6155.90	6155.97	6156.03	6156.09	6156.13	6156.16	6156.17	6156.18	6156.18	6156.17
	€ GIRDER #1	6155.91	6155.98	6156.05	6156.12	6156.17	6156.21	6156.24	6156.26	6156.27	6156.27	6156.26
2	€ GIRDER #2	6156.08	6156.16	6156.23	6156.29	6156.35	6156.39	6156.42	6156.44	6156,44	6156.44	6156.44
{	CONSTRUCTION €	6156.11	6156.19	6156.26	6156.32	6156.38	6156.42	6156.45	6156.46	6156.47	6156.47	6156.46
5	€ GIRDER #3	6156.26	6156.34	6156.41	6156.47	6156.52	6156.57	6156.60	6156.61	6156.62	6156.62	6156.61
	€ GIRDER #4	6156.44	6156.51	6156.58	6156.65	6156.70	6156.74	6156.77	6156.79	6156.80	6156.80	6156.79
	RIGHT EDGE OF DECK	6156.52	6156.60	6156.67	6156.73	6156.79	6156.83	6156.86	6156.87	6156.88	6156.88	6156.87

- SCREED ELEVATION NOTES

 1. THE SCREED ELEVATIONS INCLUDE AN ALLOWANCE FOR DEFLECTION DUE TO THE DEAD LOAD OF THE CONCRETE DECK SLAB, DIAPHRAGMS, BARRIERS, AND THE EFFECT OF LONG-TERM CREEP AND PRESTRESS LOSS.
- CONTRACTOR SHALL SET SCREED ELEVATIONS USING ELEVATIONS SHOWN IN THE TABLES ON THIS SHEET.
- 3. THE TOP OF ERECTED GIRDER ELEVATIONS SHALL BE MEASURED AND PROVIDED TO THE ENGINEER FOR VERIFICATION OF PREDICTED DEFLECTIONS PRIOR TO FORMING THE DECK.
- 4. THE HAUNCHES SHALL BE CALCULATED BASED ON THE MEASURED TOP OF ERECTED GIRDER ELEVATIONS. THE HAUNCH EQUALS (SCREED ELEVATION) MINUS (MEASURED ERECTED GIRDER ELEVATION) MINUS (DECK SLAB THICKNESS).





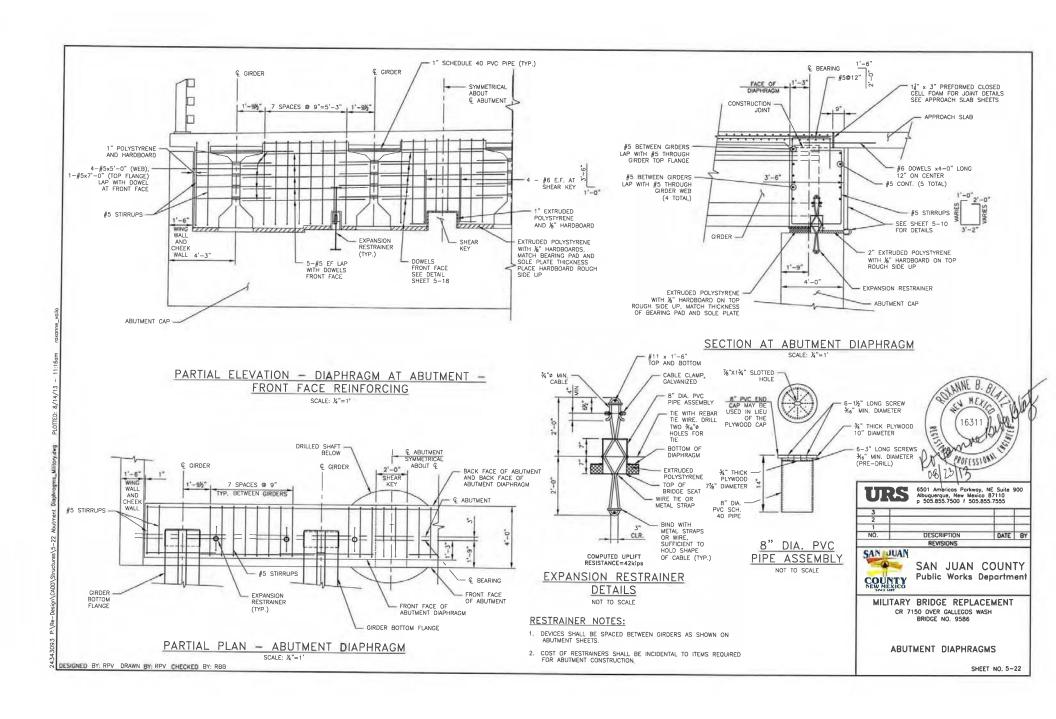


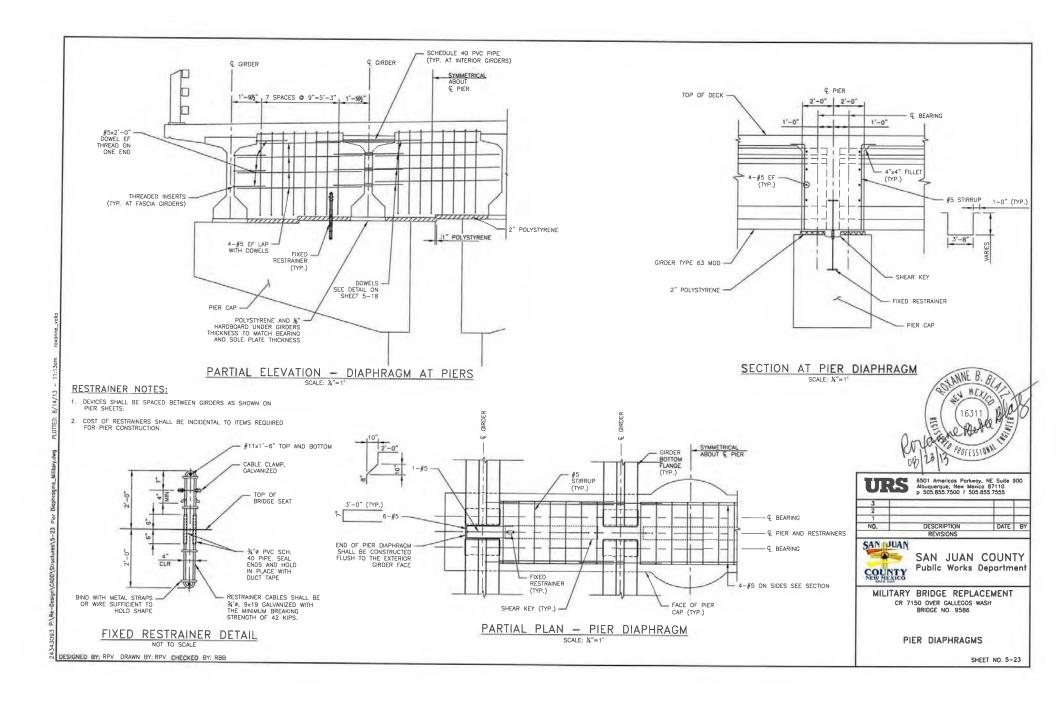
SAN JUAN COUNTY Public Works Department

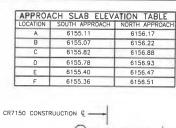
MILITARY BRIDGE REPLACEMENT CR 7150 OVER GALLEGOS WASH BRIDGE NO. 9586

> **DECK SECTION** SCREED ELEVATIONS SHEET NO. 5-21

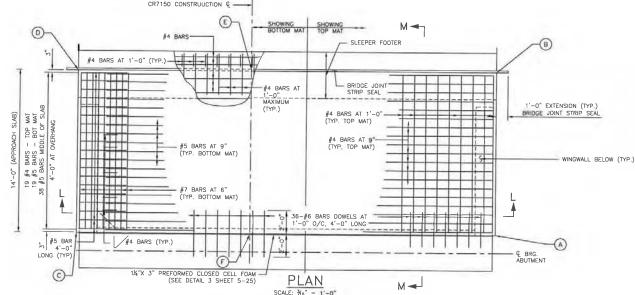
DESIGNED BY: RPV DRAWN BY: RPV CHECKED BY: RBB



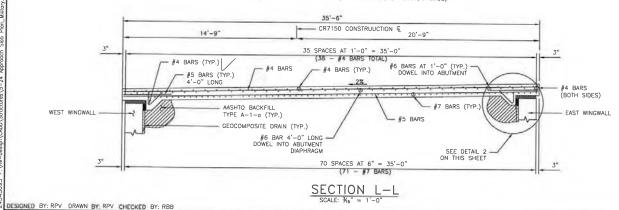


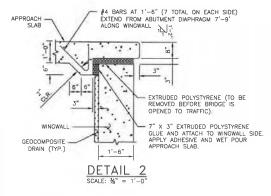


NOTE: FOR APPROACH ROADWAY RAILING SEE ROADWAY DRAWINGS



SCALE: $\frac{1}{8}$ " = 1"-0" (NORTH APPROACH SHOWN, SOUTH APPROACH MIRROR IMAGE)





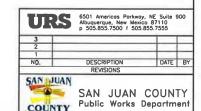
NOTES:

CXANNE B.

STA MEXICO

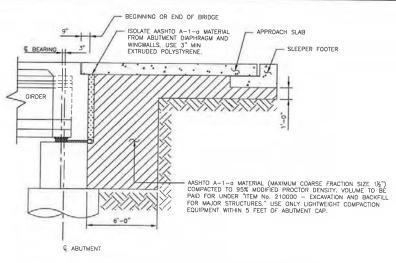
16311

- 1. CONCRETE FOR APPROACH SLABS AND SLEEPER FOOTERS SHALL BE HIGH PERFORMANCE CONCRETE (HPD)
- 2. DIMENSIONS ARE TO THE CENTERLINE OF BARS. ALL BARS ARE EPOXY COATED REINFORCING BARS GRADE 60.
- 3 THE PREFORMED CLOSED CELL FOAM BRIDGE JOINT SEALS BETWEEN APPROACH SLABS AND DECK SLAB (SEE DETAIL 3 ON SHEET 5-25 "APPROACH SLAB DETAILS") SHALL BE CONSIDERED INCIDENTAL AND INCLUDED IN THE UNIT BID PRICE FOR "ITEM No. 512003 - HIGH PERFORMANCE CONCRETE (HPD)."
- 4. TOP SURFACE OF THE ROADWAY SHALL MATCH APPROACH SLAB FINISHED GRADE.
- 5. TOP SURFACES OF THE APPROACH SLABS SHALL BE MACHINE GROOVED IN CONFORMANCE WITH SUBSECTION 512.3 10.3 (GROOVING OF HARDENED CONCRETE) OF THE STANDARD SPECIFICATIONS.
- 6. SEE SHEET 5-25 "APPROACH SLAB DETAILS" FOR SECTION M-M.



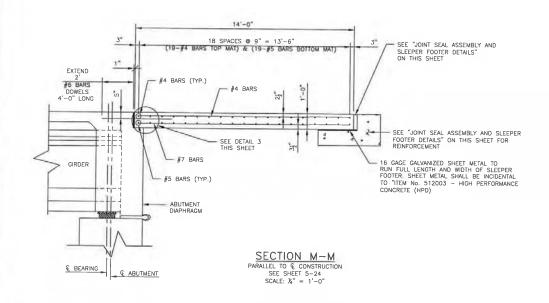
MILITARY BRIDGE REPLACEMENT CR 7150 OVER GALLEGOS WASH BRIDGE NO. 9586

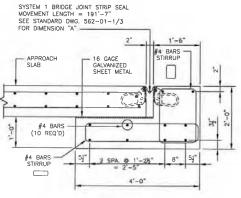
APPROACH SLAB PLAN



ABUTMENT BACKFILL COMPACTION DETAIL SCALE: %" = 1'-0"

DESIGNED BY: XXX DRAWN BY: RPV CHECKED BY: RBB



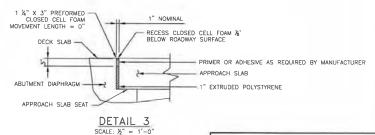


JOINT SEAL ASSEMBLY AND SLEEPER FOOTER DETAILS

OXANNE B.

SEY MEXICO

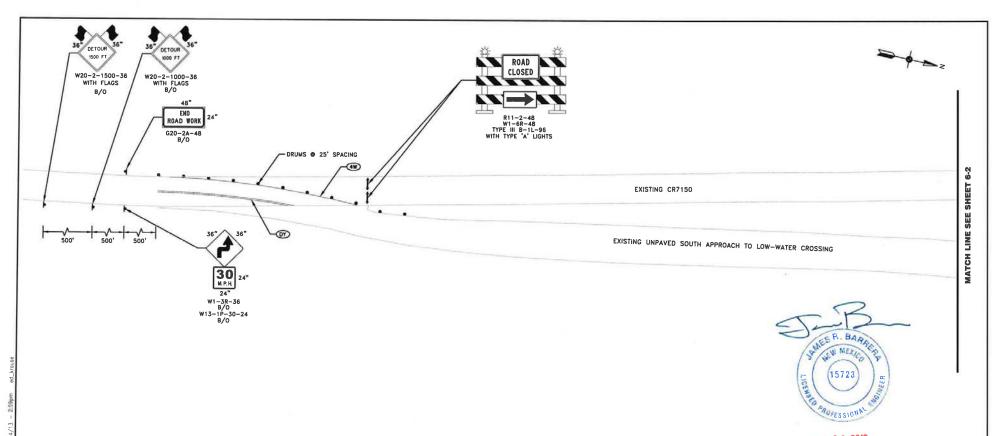
16311



SAN JUAN COUNTY Public Works Department

MILITARY BRIDGE REPLACEMENT CR 7150 OVER GALLEGOS WASH BRIDGE NO. 9586

APPROACH SLAB DETAILS



TRAFFIC CONTROL NOTES

- 1. ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE FHWA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, 2009 EDITION.
- ALL TRAFFIC SIGN FACES SHALL CONFORM TO THE DIMENSIONS SHOWN IN THE FHWA HIGHWAY SIGNS 2004 EDITION, AND 2012 SUPPLEMENT.
- 3. ALL CONSTRUCTION SIGNS SHALL HAVE TYPE III, VII, VIII, OR IX RETROREFLECTIVE SHEETING.
- 4. THE CONTRACTOR SHALL ERADICATE ALL CONFLICTING STRIPING WHEN FINAL PERMANENT PAVEMENT MARKING IS REPLACED.

SYMBOL LEGEND FOR ALL 6-SERIES DRAWINGS

DRUM

TYPE III BARRICADE

TRAFFIC FLOW ARROW

SIGN

DY DOUBLE 4" YELLOW PAVEMENT MARKING STRIPE

4" WHITE PAVEMENT MARKING STRIPE

SEQUENCE OF CONSTRUCTION

- PLACE CONSTRUCTION TRAFFIC CONTROL DEVICES AND ADVANCE SIGNING DESIGNATING THE LOW-WATER CROSSING AS THE PROJECT DETOUR ROUTE.
- PLACE BARRICADES AND CLOSE EXISTING CR 7150 AND THE EXISTING BRIDGE. REROUTE TRAFFIC ONTO THE LOW-WATER CROSSING DETOUR ROUTE.
- 3. REMOVE THE EXISTING BRIDGE AND APPROACHES, CONSTRUCT NEW BRIDGE, ABUTMENT PROTECTION AND APPROACHES, AND PLACE FINAL SIGNING AND STRIPING.
- 4. REMOVE DETOUR TRAFFIC CONTROL DEVICES AND REROUTE TRAFFIC BACK ONTO CR 7150 ON THE NEW BRIDGE.

AUG 2 3 2013





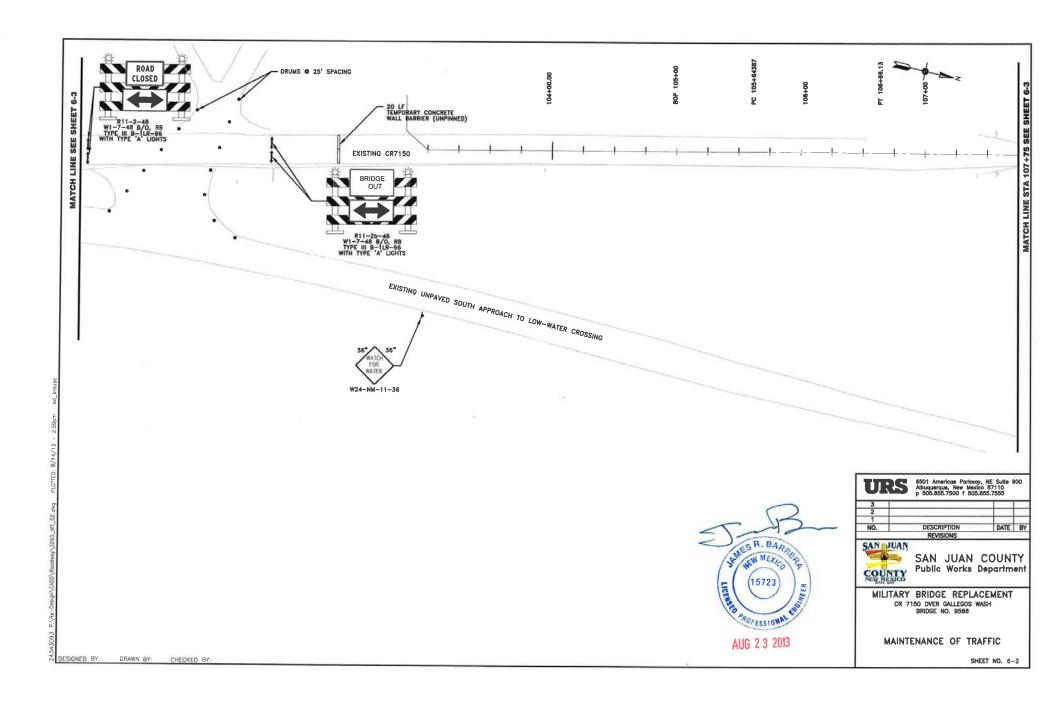
SAN JUAN COUNTY Public Works Department

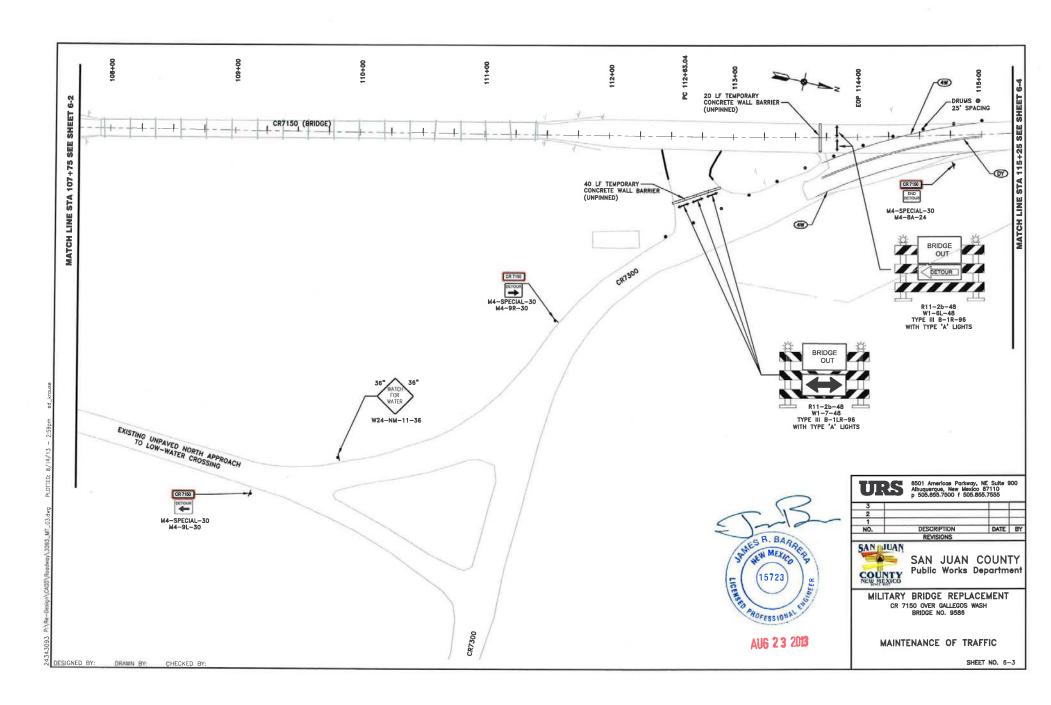
MILITARY BRIDGE REPLACEMENT CR 7150 OVER GALLEGOS WASH BRIDGE NO. 9586

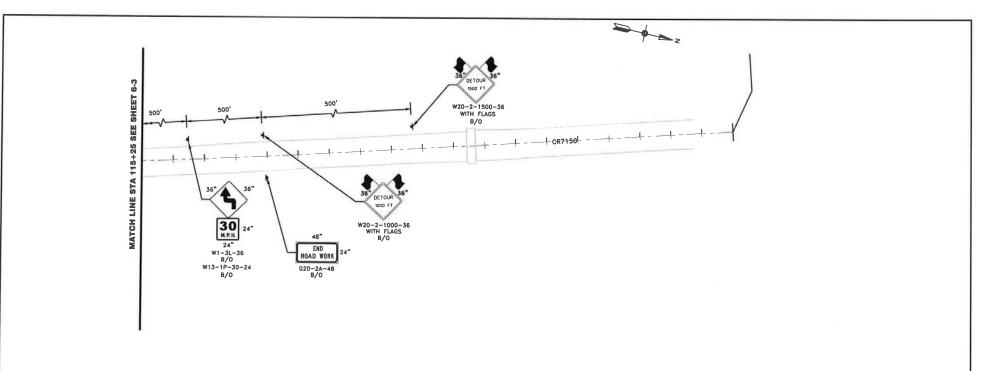
MAINTENANCE OF TRAFFIC

SHEET NO. 6-1

ESIGNED BY: DRAWN BY: CHECKED BY:







DESIGNED BY:

DRAWN BY: CHECKED BY:



AUG 2 3 2013





SAN JUAN COUNTY Public Works Department

MILITARY BRIDGE REPLACEMENT CR 7150 OVER GALLEGOS WASH BRIDGE NO. 9586

MAINTENANCE OF TRAFFIC

SIGN	SIGN CODE	COLOR	LETTER SHEETING	BACKGROUND SHEETING
STOP	R1-1	(W/RED)	TYPE VIII OR IX	TYPE VIII OR IX
YIELD	R1-2	(W/RED)	TYPE VIII OR IX	TYPE VIII OR IX
DO NOT ENTER	R5-1	(W/RED)	TYPE VIII OR IX	TYPE VIII OR IX
WRONG WAY	R8-1a	(W/RED)	TYPE VIII OR IX	TYPE VIII OR IX
SCHOOL BUS SIGN	S3-1	(BLK/FLOURESCENT YELLOW GREEN)	TYPE VIII OR IX	TYPE VIII OR IX
SCHOOL BUS XING	S1-1	(BLK/FLOURESCENT YELLOW GREEN)	TYPE VIII OR IX	TYPE VIII OR IX
PEDESTRIAN XING	W11-2	(BLK/FLOURESCENT YELLOW GREEN)	TYPE VIII OR IX	TYPE VIII OR IX
BIKE XING	W11-1	(BLK/FLOURESCENT YELLOW GREEN)	TYPE VIII OR IX	TYPE VIII OR IX
ALL SCHOOL/PED/BIKE SUPPLEMENTAL PLAQUES		(BLK/FLOURESCENT YELLOW GREEN) WHEREVER BLK/YELLOW IS SPECIFIED AS COLOR IN MUTCD	TYPE VIII OR IX	TYPE VIII OR IX
ALL OTHER WARNING SIGNS & SUPPLEMENTAL PLAQUES		(BLK/FLOURESCENT YELLOW) WHEREVER BLK/YELLOW IS SPECIFIED AS COLOR IN MUTCD	TYPE VIII OR IX	TYPE VIII OR IX
GUIDE & DESTINATION SIGNS INCLUDE EXTRUDED & NON-EXTRUDED (OVERHEAD & GROUND MOUNTED)	ALL	(W/GREEN) EXCEPT WHERE SPECIFIED IN THE MUTCD	TYPE VIII OR IX	TYPE IV
E-CODE SIGNS	E 11-1, 1a, 1b, 1a	(BLK/FLOURESCENT YELLOW)	TYPE VIII OR IX	TYPE IV
RECREATIONAL & CULTURAL INTERESTS	ALL	(W/BROWN)	TYPE VIII OR IX	TYPE IV
GENERAL SERVICE	ALL	(W/BLUE)	TYPE VIII OR IX	TYPEIV
SPECIFIC SERVICE	ALL	(W/BLUE)	TYPE VIII OR IX	TYPE IV
ALL OTHER PERMANENT SIGNS		(BLKWHITE) EXCEPT WHERE SPECIFIED OTHERWISE IN THE MUTCD	TYPE IV	TYPE IV

- ONLY 0.125 INCHES THICK ALUMINUM PANEL SIGNS ARE PERMITTED FOR WARNING AND REGULATORY SIGNS.
- QUANTITIES MAY VARY AS FIELD CONDITIONS DICTATE. THE CONTRACTOR WILL BE PAID FOR ACTUAL QUANTITIES USED.
- 4. ALL TRAFFIC CONTROL DEVICES SHALL COMPLY WITH N.M. STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION (LATEST EDITION) AND ANY APPLICABLE SPECIAL PROVISION AND/OR SUPPLEMENTAL SPECIFICATION. ALSO THE DEVICES SHALL COMPLY WITH CURRENT EDITION, WITH REVISIONS, OF THE MUTCD.
- EACH SIGN FACE SHOWN ON PLANS SHALL MEET THE SPECIFICATIONS IN THE STANDARD HIGHWAY SIGNS MANUAL (CURRENT EDITION) FOR PROPER ARRANGEMENT, SPACING OF LETTERS, LETTER HEIGHT, SYMBOLS AND BORDERS FOR THE SPECIFIED SIZE AND MESSAGE AS SHOWN ON PLANS.
- 6. POST LENGTHS ARE BASED ON A MINIMUM OF 5 FT FOR RURAL ROADWAY SECTIONS TO A MINIMUM OF 7 FT FOR URBAN AND INTERSTATE ROADWAY SECTIONS. THE LENGTHS ARE MEASURED FROM THE BOTTOM OF THE SIGN TO NEAR EDGE OF THE DRIVING LANE
- 7. THE LATERAL CLEARANCE OF SIGNS SHALL BE NO CLOSER THAN THE 6 FT FROM THE EDGE OF SHOULDER OR 12 FT FROM THE EDGE OF TRAVELED WAY FOR RURAL AREAS AND NO CLOSER THAN 2 FT FROM FACE OF CURB FOR URBAN AREAS.
- ALL SIGNING HARDWARE, INCLUDING BRACKETS, (FOR MOUNTING ALL STREET NAME SIGNS, W1-8-18 BACK TO BACK MOUNTING, ETC.) ARE CONSIDERED INCIDENTAL TO SIGN INSTALLATION. THEREFORE, NO PAYMENT WILL BE MADE.
- 9. THREE 4 LB/FT SIGN POST INSTALLATION APPROVED ONLY IF THE SPAN BETWEEN THE OUTER POSTS EXCEEDS 84" (SIGN WIDTH OF 96" OR GREATER).
- 3'- 6" BASE POSTS ARE REQUIRED FOR ALL SMALL SIGN POSTS. SEE STANDARD DRAWING 701-02-1/3 FOR DETAILS.
- SIGN POSTS SHALL BE SQUARE TUBING AS APPROVED BY THE PROJECT MANAGER OR THE DISTRICT TRAFFIC ENGINEER.
- 12. CONTRACTOR SHALL FIELD VERIFY ALL SIGNING INFORMATION, TEXT, AND LOCATIONS PRIOR TO FABRICATION AND INSTALLATION. NEW SIGN LOCATIONS SHALL BE APPROVED BY THE PROJECT MANAGER OR THE DISTRICT TRAFFIC ENGINEER.
- 13. ALL SIGNS AND STRIPING RELATED TO PASSING ZONE MUST BE VERIFIED AND REVIEWED WITH PROJECT MANAGER AND DISTRICT TRAFFIC ENGINEER FO CONFORMANCE TO ASAHTO AND MUTCD STANDARDS. ALL THE PASSING ZONE LENGTHS SHALL BE RECALCULATED AND RE-VERIFIED AGAIN.
- 14. THE APPLICATION RATE FOR HIGH DURABLE PAINT IS AS FOLLOWS:

A MINIMUM RATE OF 24.14 TO 27.42 GALLONS PER MILE OF SOLID 4-INCH LINE OR 6.04 TO 6.86 GALLONS PER MILE OF 4-INCH BROKEN LINE ON A 10 FOOT STRIPE AND 30 FOOT GAP.

THE SECOND APPLICATION WILL BE A MINIMUM OF 14 DAYS AFTER THE FIRST APPLICATION.

GLASS REFLECTORIZED BEADS SHALL BE APPLIED ON THE WET PAINT AT A MINIMUM RATE OF 6 POUNDS PER GALLON OF PAINT.

TO TESSION A TOPESSION A TOPES

AUG 2 3 2013



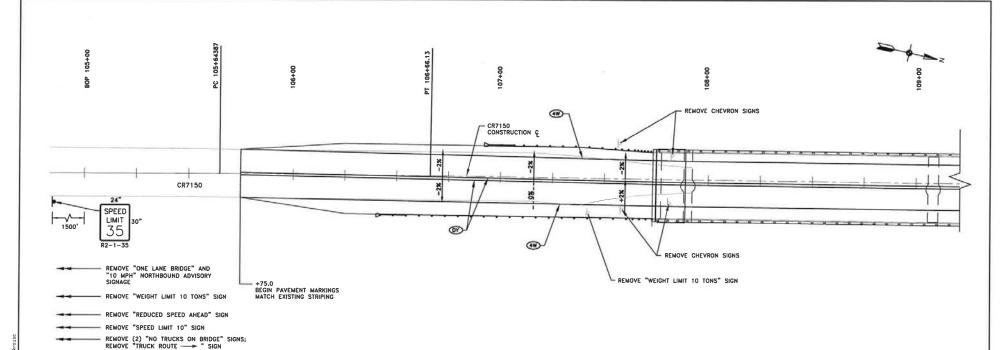
SAN JUAN COUNTY Public Works Department

MILITARY BRIDGE REPLACEMENT
CR 7150 OVER GALLEGOS WASH
BRIDGE NO. 9586

SIGNING AND STRIPING GENERAL NOTES

SHEET NO. 7-1

DESIGNED BY: DRAWN BY: CHECKED BY:



LEGEND

4" SOLID WHITE LINE, PAINT

OY DOUBLE 4" SOLID YELLOW LINE, PAINT

SB 12" STOP BAR, PAINT

EXISTING SIGN

PROPOSED SIGN



URS 6501 Americos Porkwoy, NE Suite 900 Albuquerque, New Mexico 87110 p 505.855.7500 f 505.855.7555

DESCRIPTION

REVISIONS SAN JUAN

NO.

SAN JUAN COUNTY Public Works Department

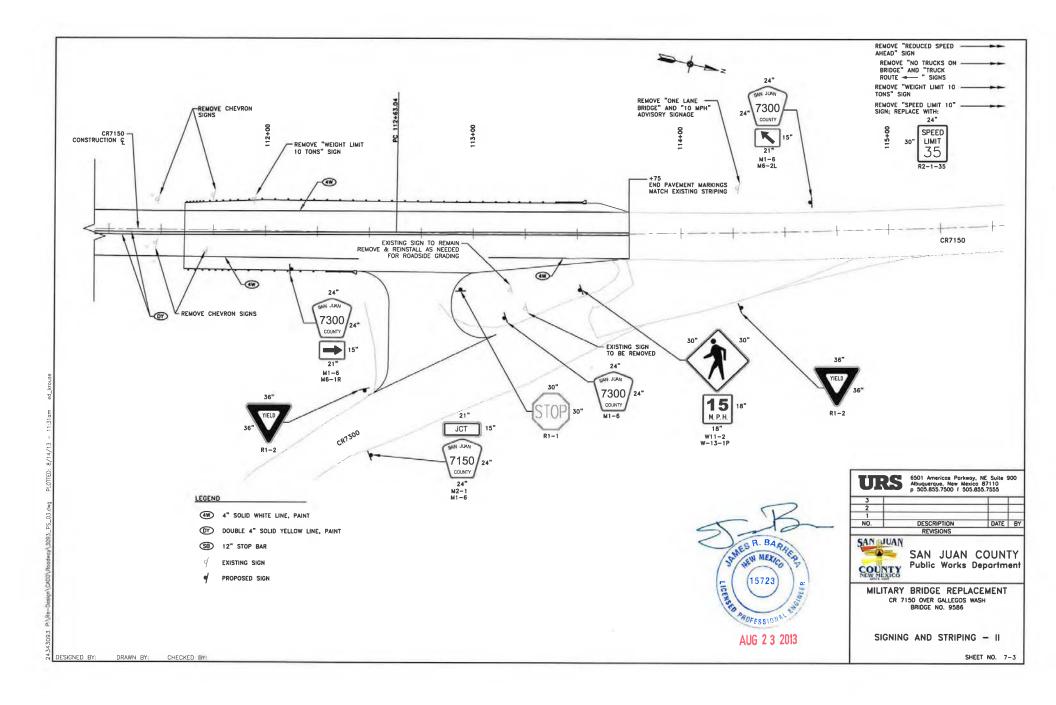
MILITARY BRIDGE REPLACEMENT CR 7150 OVER GALLEGOS WASH BRIDGE NO. 9586

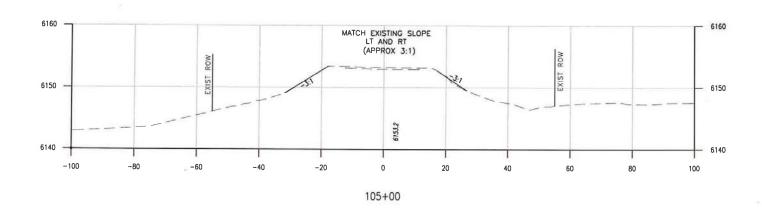
SIGNING AND STRIPING - I

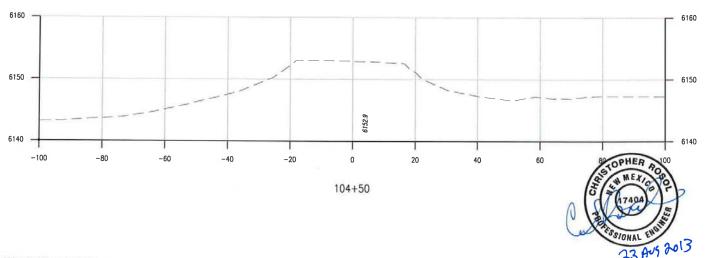
SHEET NO. 7-2

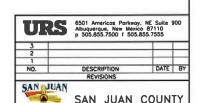
DATE BY

DRAWN BY: CHECKED BY:







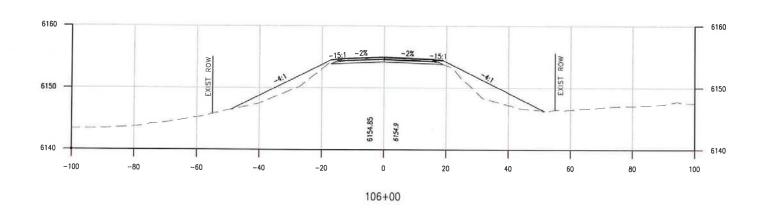


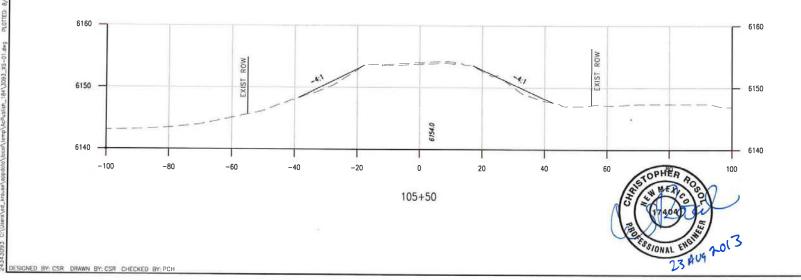
MILITARY BRIDGE REPLACEMENT CR 7150 OVER GALLEGOS WASH BRIDGE NO. 9586

CROSS SECTIONS STA 104+50 TO STA 105+00

SHEET NO. 10-1

DESIGNED BY: CSR DRAWN BY: CSR CHECKED BY: PCH



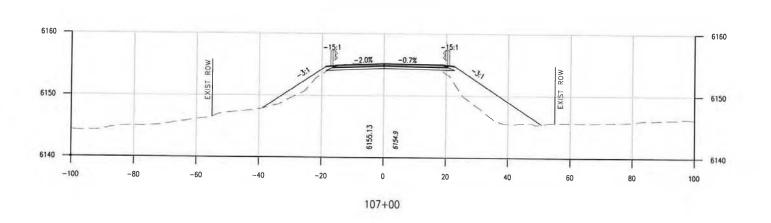


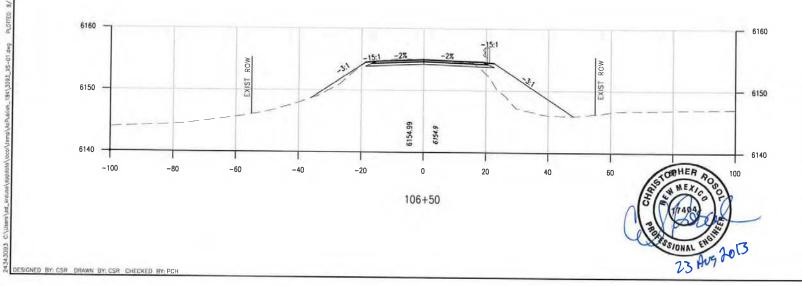


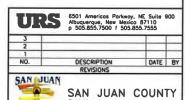


MILITARY BRIDGE REPLACEMENT
CR 7150 OVER GALLEGOS WASH
BRIDGE NO. 9586

CROSS SECTIONS STA 105+50 TO STA 106+00

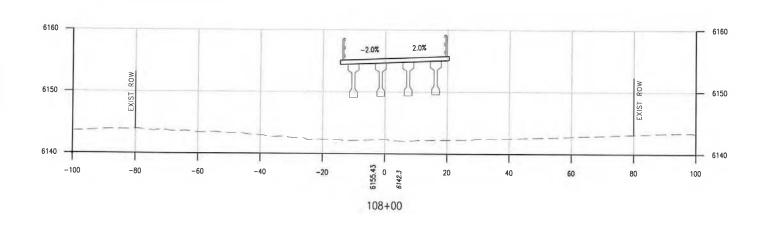


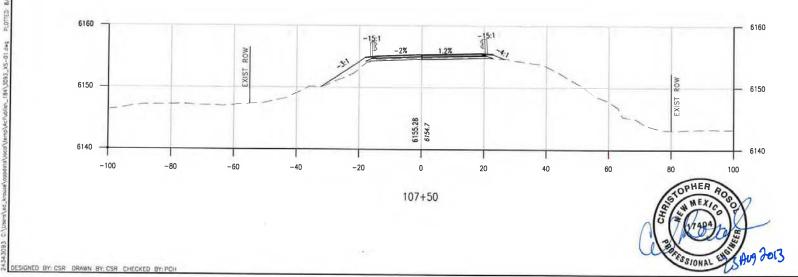




MILITARY BRIDGE REPLACEMENT CR 7150 OVER GALLEGOS WASH BRIDGE NO. 9586

CROSS SECTIONS STA 106+50 TO STA 107+00

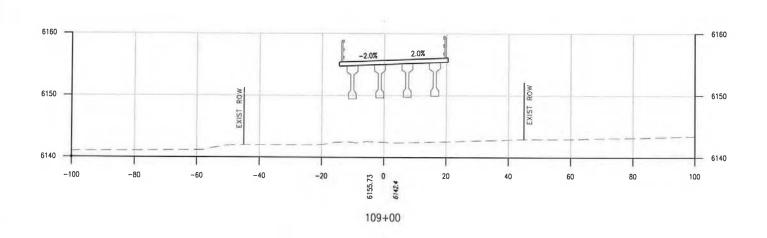


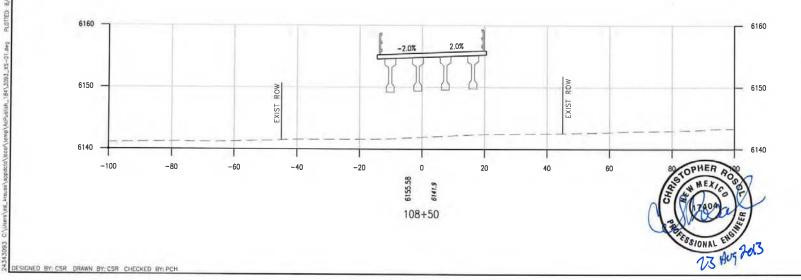


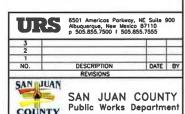


MILITARY BRIDGE REPLACEMENT CR 7150 OVER GALLEGOS WASH BRIDGE NO. 9586

CROSS SECTIONS STA 107+50 TO STA 108+00



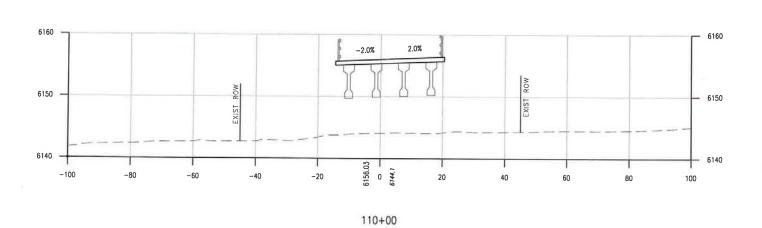


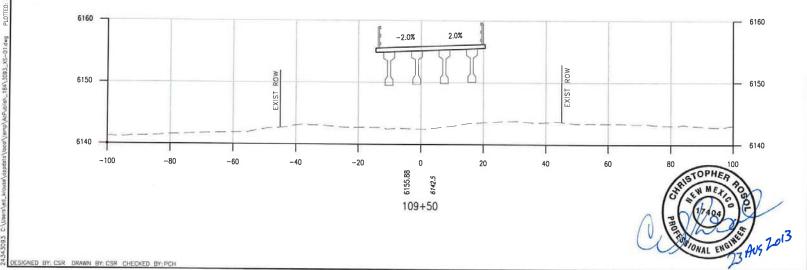


Public Works Department

MILITARY BRIDGE REPLACEMENT CR 7150 OVER GALLEGOS WASH BRIDGE NO. 9586

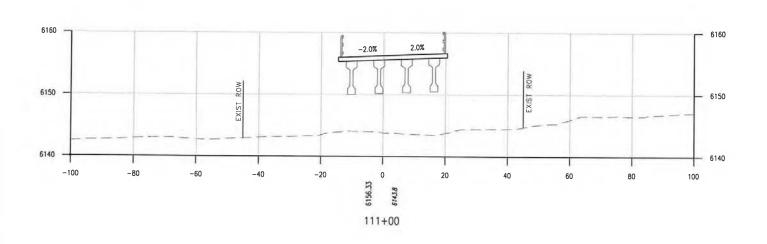
CROSS SECTIONS STA 108+50 TO STA 109+00

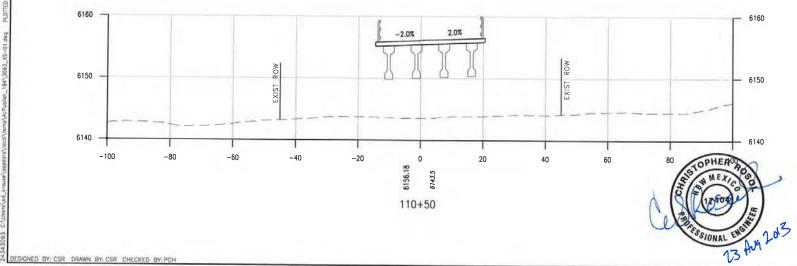




MILITARY BRIDGE REPLACEMENT CR 7150 OVER GALLEGOS WASH BRIDGE NO. 9586

CROSS SECTIONS STA 109+50 TO STA 110+00

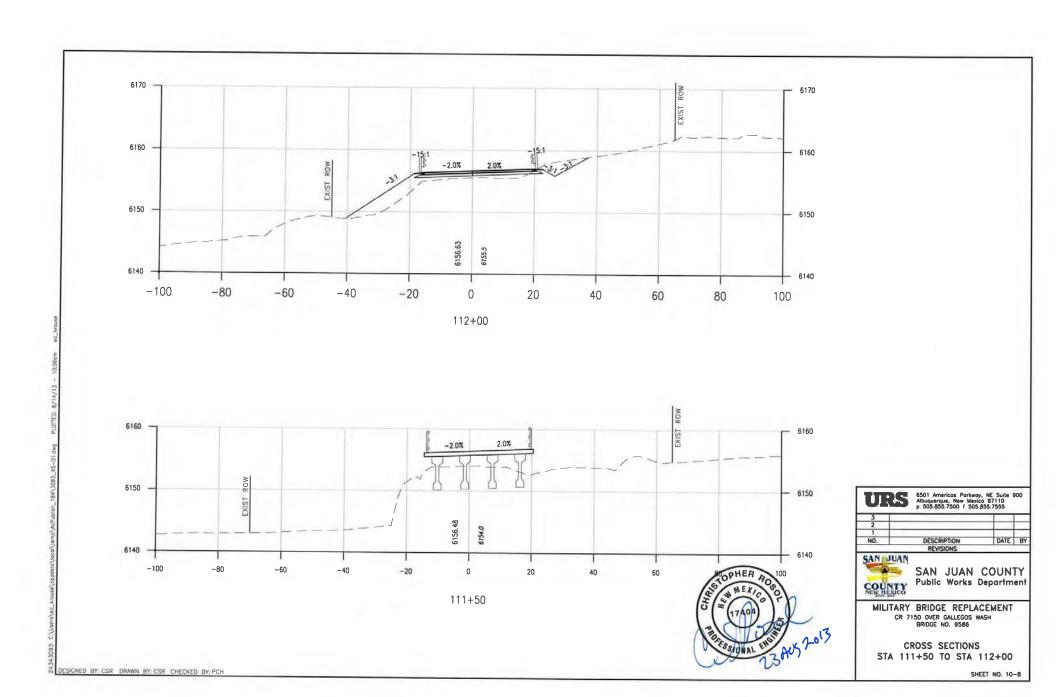


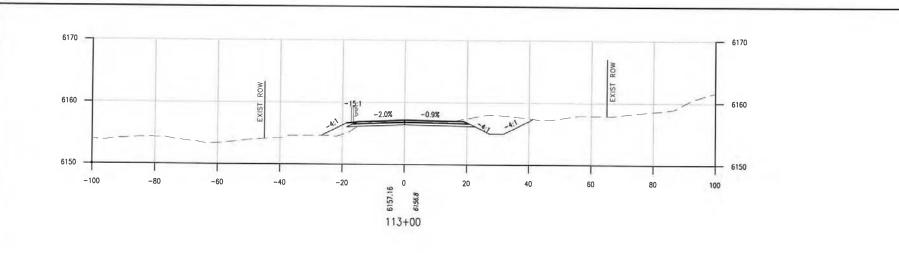


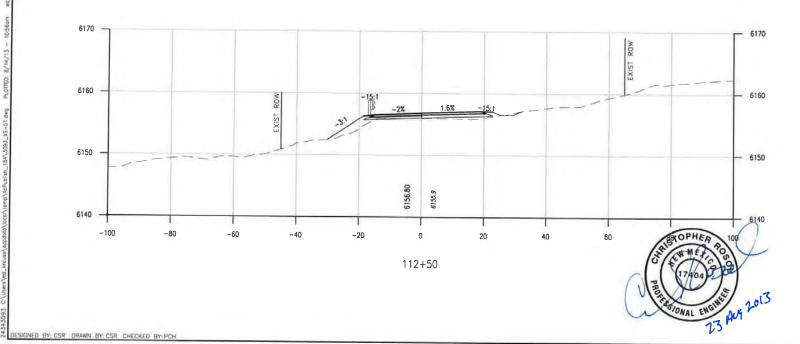


MILITARY BRIDGE REPLACEMENT CR 7150 OVER GALLEGOS WASH BRIDGE NO. 9586

CROSS SECTIONS STA 110+50 TO STA 111+00











MILITARY BRIDGE REPLACEMENT CR 7150 OVER GALLEGOS WASH BRIDGE NO. 9586

CROSS SECTIONS STA 112+50 TO STA 113+00

