

SECTION J: FORMS, SPECIFICATIONS, & CONSTRUCTION STANDARDS

**TRUCKEE-CARSON IRRIGATION DISTRICT
APPLICATION AND CERTIFICATION FOR GRAZING
CARSON LAKE PASTURE**

I hereby **APPLY** for pasturage for the livestock designated below in the Carson Lake Pasture subject to the Rules and Regulations adopted by the Truckee-Carson Irrigation District. I attach herewith a check covering two months advance grazing fees plus vaccine and insecticide costs on all paying stock. In addition, I agree to pay any vaccination and grazing charges upon demand therefore. In the event of my failure to pay surcharges within ten days after demand for such payment, I hereby authorize you to sell a sufficient number of my livestock to satisfy your claim. And I do hereby, for myself and for my heirs, executors, administrators or assigns, waive any claims for damages which may have or which may accrue to me by reason of any loss or injury received by any of the stock hereinafter described while in the District’s care and custody. I also release the District from any liability for loss or damage to property and shall indemnify and hold harmless the District from all liability, cost and expense for loss suffered by the user for injuries to person or property or deaths of persons arising directly or indirectly from the issuance of this permit for use of the pasture grazing areas.

Cows _____ **Heifers** _____ **Two (2) Months Advance Grazing Fee:** _____
Bulls _____ **Steers** _____ **Vaccine/Insecticide Costs:** _____
Total Paid: _____

I, the undersigned, hereby **CERTIFY** that the cattle, which will be entered into the grazing areas, are the same as appear on the certificate issued by a licensed veterinarian, which guarantees that this stock is free from brucellosis. I further certify that this stock was at no time allowed to commingle with any other stock following the issuance of the certificate issued by the veterinarian. I realize that misrepresentation of this stock can result in all or any part of the entire herd being removed from District pastures at the District’s discretion and may jeopardize future permits in District grazing areas.

APPLICANT

Print: _____ **TCID Serial #:** _____ **W/R Acres Owned:** _____
W/R Acres Leased: _____
Signed: _____ **Date:** _____

This application for Permit is **not** valid until approved by the Board of Directors and signed by the President.

President, Board of Directors

Date

*Attached are the Rules and Regulations

**TRUCKEE-CARSON IRRIGATION DISTRICT
RULES AND REGULATIONS
CARSON LAKE PASTURE GRAZING AREA**

All Carson Lake Pasture grazing area applications, both Old and New users, must be filed with and received by the District annually **on or before March 1**. Fees for vaccine, insect control and for two (2) months grazing must accompany the application for both Old and New users.

The animal unit monthly rate for fees and insect control will be established at the Truckee-Carson Irrigation District Board of Director's regular meeting in February of each year.

The following stock shall be included in the overall application and permit: cows, heifers, steers and bulls. Pasture users must supply one bull to each twenty-five (25) head of cows or fraction thereof entered in the pasture. No application will be accepted for less than one increment, i.e., 26 head.

Permits will be limited to the following:

1. Two head of paying stock per each water-right acre owned as recorded on Truckee-Carson Irrigation District records. Owner water users shall be given first priority in pasture.
2. One head of adult paying stock per water-right acre leased upon written proof of the lease for Truckee-Carson Irrigation District's records. Resident lessee water users shall be given second priority in pasture. All proof of ownership or lease of water-right lands shall be the responsibility of the applicant and not the Truckee-Carson Irrigation District. No user shall be allowed over four hundred (400) head of paying stock except at the discretion of the Board of Directors.

The District's Board of Directors will review the applications at their regularly scheduled Board meeting in March. At that time, the Board will establish the number of cattle that the Carson Lake Pasture will be able to serve. The Board will also establish the number of cows, heifers, steers and bulls that will be acceptable into the grazing area based upon the applications submitted and the condition of the grazing area. If insufficient applications are received and approved by the Board of Directors from Old Users to fill the pasture area to capacity, the balance of capacity shall be filled from New Users in the priority of New User depending upon availability in that particular category of stock.

Permits will be awarded by the following definitions:

1. "Old User" - those who have used the grazing area for the past three years; and
2. "New User" - new user qualifies as an "Old User" when he has been in the pasture for three (3) consecutive years. In case the "New User" is held out of the pasture for one or more years by Board action due to a shortage of water, he will not lose his years of use already accumulated toward qualifying as an "Old User". "New Users" are given priority amongst themselves based on the number of years they have been permitted in the pasture if not qualified as an "Old User" and then by the date "New User" continuously submitted applications.

Pasture areas usually open in the spring between April 1 and April 15. Proposed opening date will be set at the regular board meeting in March of each year and the pasture manager will have discretion to open as close to that date as feed allows. Permitted stock shall be entered in the grazing area by June 1 and each permittee shall be charged for permitted stock for a minimum of 120 days, if application is approved by the Board. Written notice will be sent to applicants of the action taken by the Board of Directors at the regular March Board meeting.

The permittee who must remove stock from the pasture because it is sick may:

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1. Replace the sick animal; or
2. Re-enter the sick animal when it is well. However, the animal in question must be identified by the pasture manager as being “sick” before it is released to allow the permittee the above option.

All Cattle, including heifer calves over the age of six (6) months, prior to entry into a Truckee-Carson Irrigation District controlled grazing area must have been vaccinated for brucellosis. Results of tests are to be provided to the District pasture manager before stock is entered in the pasture area. Owner of such stock must also certify that the stock represented by the testing record is the same as that which is now being entered and that this stock was at no time allowed to commingle with any other stock following testing. (02/07/02)

All bulls shall be tested for trichomonas and receive a veterinarian certification showing the bulls are free of trichomonas prior to entering the pasture. The testing veterinarian will tattoo the bull's ear at the time of the test with a number that corresponds with the paperwork. The certification and tattoo on the bull must match and will be presented to the Pasture Manager at entry. (2/7/01)

All paying cattle (all livestock 6 months or older whether weaned or not are considered paying cattle) entering the pasture must be branded with permittee's brand as registered in the Nevada State brand book.

Pasture personnel will administer vaccine and oversee application of insecticide ear tags.

No branding or marking of cattle will be allowed after stock has been put in the pasture area, unless approved by and under the direction of the pasture manager. All paying cattle must be counted in and out by pasture personnel. Pasture personnel will be available Monday through Friday each week to receive or release stock; no stock will be received or released Saturdays or Sundays. Before riding in any of the pasture areas to check cattle, user must notify pasture personnel

In the event that there is insufficient feed in the area, “New Users” shall first be reduced proportionately. Should there still be insufficient feed to accommodate the “Old Users”, then they will be cut proportionately. If a permittee does not fill his permit for any year, and does not pay the 120 days, the following year his permit will be reduced to that number of head actually entered in that prior year.

If permittee does not enter sufficient stock to fill his permit, he may retain the permit by paying grazing vaccination charges and insect control charges for a 120 day period on the entire permit, to be paid by November 15 of the current year. This privilege of retaining the permit by the paying of fees for the 120 day period shall pertain to one year only and must be followed by a season of actual use before the retention privileges can again be applied.

After being contacted by the pasture manager, the user shall bring his bulls within 15 days. Failure to do so will result in a \$100 per bull penalty and loss of pasture privilege for user's remaining cattle. Loss of pasture privilege will be reinstated only upon authority of the Board of Directors. Bulls must be acceptable to the pasture manager and full discretion as to bull scheduling will be given to him.

Bulls shall be removed within fifteen (15) days following notification by pasture manager. The 120-day requirement shall not apply to bulls. Bulls will be charged for only the number of days actually in the pasture, but in no case will it be less than 60 days. Final discretion as to bulls in and out of the pasture is granted to the pasture manager.

Pasture users will be notified immediately of any identifiable loss that is discovered by pasture personnel. Every effort shall be made by the pasture manager to identify all livestock. Any unidentified stock shall be sold through proper channels.

Any pasture user not assisting in gathering and working of stock as required by the pasture manager is to be fined \$1.00 per head of stock owned by that user in the pasture. Help required in gathering and working stock will be one man per 75 head or portion thereof to a maximum of three men.

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Pasture bills must be paid before removal of livestock. Bills may be paid at the Truckee-Carson Irrigation District offices at 2666 Harrigan Road, twenty-four (24) hours before removal, or to the Pasture Manager the day of removal. No permanent pasture employees shall be allowed to run stock in the pastures.

Pasture areas shall be closed on November 15 and all stock must be removed by this date. Any livestock not so removed shall be gathered and sold. Specific days for removal of stock from the pasture areas may be set by the pasture manager and users so notified.

When a permittee sells the property, which supports his permit by virtue of water-right acreage requirements, the permit is terminated at the end of the grazing season then in effect. If title to the property changes as a result of an estate proceeding, the permit will be transferred to the heir(s), the intent being to maintain continuity of the farming operation. However, any further disposition of the property to the extent that it affects the status of the grazing permit must come before the Board of Directors for individual review.

Failure to comply with any of the rules shall be reason for cancellation of permit.

I, _____, AGREE TO BE GOVERNED BY THE ABOVE RULES AND REGULATIONS.

Signature of Permittee

Date

**TRUCKEE-CARSON IRRIGATION DISTRICT
NEWLANDS PROJECT, NEVADA
PERMISSION FOR INSTALLATION AND MAINTENANCE OF PRIVATE
COMMERCIAL PUMP**

**TAG #«tag»
SERIAL #«ser_no»**

«name», the undersigned applicant, hereby accepts full responsibility for the entire costs involved in the construction and removal of a private pump installation for commercial purposes within the Newland's Project.

Such installation is to be made at the following location:

STREET ADDRESS: «pump_add»

LEGAL DESCRIPTION: «legdescript_dist» District

SECTION: «sec», TOWNSHIP: «town» North, RANGE: «range» East, M.D.B.&M.

LATERAL/CANAL/DRAIN/RIVER: «lateral»

This agreement of use is granted upon the following terms and conditions:

1. The applicant shall be liable for any and all damages to the property of the United States, the District or of any third party or parties by reason of the exercise of privileges conferred by this permission of use.
2. The pump installation shall be so constructed as not to obstruct in any manner whatsoever the flow of water in the canals, laterals or drain ditches operated and maintained by the District. Any interference in any manner whatsoever with the construction, operation and maintenance of any part of the Newlands Project will be cause for removal.
3. Pump and inlet lines are to be removed after the irrigation season. Those not removed will be confiscated by the District if they present an obstacle in any form to the District's regular maintenance program. Pumps for domestic purposes shall not exceed a maximum discharge of one and one-half (1-1/2) inches in diameter. Inlet lines crossing maintenance roads are to be buried at least six (6) inches deep but no more than one foot deep.
4. The cost of construction and maintenance of the pump shall be the responsibility of the applicant.
5. It is subject to an annual fee as set by the District's Board of Directors and the current District policies.
6. This permit is for commercial pumping: «description».
7. Approximately «gallons» gallons per day when in use.
8. The construction and maintenance of the pump installation shall be in accordance with the following additional conditions: «conditions»
9. This agreement is personal, revocable, and nontransferable.
10. This agreement will terminate:
 - If applicant fails to pay the annual charge when due.
 - If the Truckee-Carson Irrigation District, or applicant, disposes of its or his interest in the land upon which this agreement applies.
 - Upon failure of applicant to comply with any of the provisions of this agreement, or
 - If this agreement is ever considered detrimental to the public interest.

Upon termination, the District will send a notice of allowing the applicant thirty (30) days to remove the pump and all accessories. Upon failure of applicant to remove the installation, the District, without any liability for so doing, may remove the pump and all accessories at the cost of the applicant. Any costs or expenses incurred by the District shall become a lien upon applicant's property and collected in the same manner as all other liens.

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**TRUCKEE-CARSON IRRIGATION DISTRICT
NEWLANDS PROJECT, NEVADA
PERMISSION FOR INSTALLATION AND MAINTENANCE OF PRIVATE
DOMESTIC PUMP**

SERIAL #«ser_no»

SUB. #«sub_no»

TAG #«tag»

APN «apn»

«name», the undersigned applicant, hereby accepts full responsibility for the entire costs involved in the construction and removal of a private pump installation for domestic purposes within the Newland's Project.

Such installation is to be made at the following location:

PUMP ADDRESS: «pump_add»

LEGAL DESCRIPTION: «legdescript_dist» District

SECTION: «sec», TOWNSHIP: «town» North, RANGE: «range» East, M.D.B.&M.

LATERAL/CANAL/DRAIN/RIVER: «lateral»

This agreement is granted upon the following terms and conditions:

1. The applicant shall be liable for any and all damages to the property of the United States, the District or of any third party or parties by reason of the exercise of privileges conferred by this permission.
2. The pump installation shall be so constructed as not to obstruct in any manner whatsoever the flow of water in the canals, laterals or drain ditches operated and maintained by the District. Any interference in any manner whatsoever with the construction, operation and maintenance of any part of the Newlands Project will be cause for removal.
3. Pump and inlet lines are to be removed after the irrigation season. Those not removed will be confiscated by the District if they present an obstacle in any form to the District's regular maintenance program. Pumps for domestic purposes shall not exceed a maximum discharge of one and one-half (1-1/2) inches in diameter. Inlet lines crossing maintenance roads are to be buried at least six (6) inches deep but no more than one foot deep.
4. The cost of construction and maintenance of the pump shall be the responsibility of the applicant.
5. It is subject to an annual fee as set by the District's Board of Directors and the current District policies.
6. Such domestic use shall be in conjunction with a residence for a lawn, garden, orchard, or pasture area for domestic animals and shall not exceed 1,800 gallons a day.
7. This agreement is for domestic pumping: **«description»**.
8. The construction and maintenance of the pump installation shall be in accordance with the following additional conditions: **«conditions»**
9. This agreement is personal, revocable, and nontransferable.
10. This agreement will terminate:
 - If applicant fails to pay the annual charge when due.
 - If the Truckee-Carson Irrigation District, or applicant, disposes of its or his interest in the land upon which this agreement applies.
 - Upon failure of applicant to comply with any of the provisions of this agreement, or
 - If this agreement is ever considered detrimental to the public interest.

Upon termination, the District will send a notice of allowing the applicant thirty (30) days to remove the pump and all accessories. Upon failure of applicant to remove the installation, the District, without any liability for so doing, may remove the pump and all accessories at the cost of the applicant. Any costs or

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expenses incurred by the District shall become a lien upon applicant's property and collected in the same manner as all other liens.

Dated at Fallon, Nevada this _____ day of _____, 20____.

«name»

«name»

Name: «name»
Mailing Address: «mailadd» «city_st_zip»

Witness: _____

Approved this _____ day of _____, 20_____.

Truckee-Carson Irrigation District

Rusty D. Jardine, Esq., Project Manager

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**TRUCKEE-CARSON IRRIGATION DISTRICT
NEWLANDS PROJECT, NEVADA
INSTALLATION AND MAINTENANCE OF PRIVATE
WATER RIGHT PUMP**

SERIAL #«ser_no»

SUB #«sub_no»

TAG #«tag»

APN «apn»

«name», the undersigned applicant, hereby accepts full responsibility for the entire costs involved in the construction and removal of a private pump installation for water right purposes within the Newland's Project.

Such installation is to be made at the following location:

STREET ADDRESS: «pump_add»

LEGAL DESCRIPTION: «legdescript_dist» District

SECTION: «sec», TOWNSHIP: «town» North, RANGE: «range» East, M.D.B.&M.

LATERAL/CANAL/DRAIN/RIVER: «lateral»

This agreement is granted upon the following terms and conditions:

1. The applicant shall be liable for any and all damages to the property of the United States, the District or of any third party or parties by reason of the exercise of privileges conferred by this license.
2. The applicant has a legal right to appropriate water within the Newlands Reclamation Project.
3. The pump installation shall be so constructed as not to obstruct in any manner whatsoever the flow of water in the canals, laterals or drain ditches operated and maintained by the District. Any interference in any manner whatsoever with the construction, operation and maintenance of any part of the Newlands Project will be cause for removal.
4. Pump and inlet lines are to be removed after the irrigation season. Those not removed will be confiscated by the District if they present an obstacle in any form to the District's regular maintenance program. Pumps for domestic purposes shall not exceed a maximum discharge of one and one-half (1-1/2) inches in diameter. Inlet lines crossing maintenance roads are to be buried at least six (6) inches deep but no more than one foot deep.
5. The cost of construction and maintenance of the pump shall be the responsibility of the applicant.
6. A water order will be placed once a month and reflected in the water card. The water user will be required to report any adjustments to water usage within ten (10) days from the receipt of the monthly water card. A form is available on www.tcid.org.
7. This agreement is for a water right pump permit: «description».
8. This pumping installation is to be used to irrigate «ppalloc» acres of water righted land with a duty of «duty» per acre and an allocation of «afused» a.f. annually. Such amount will annually be charged to T.C.I.D. Serial No. «ser_no».
9. The construction and maintenance of the pump installation shall be in accordance with the following additional conditions: «conditions»
10. All pumps shall display the TCID issued placard a minimum of 4.5 ft. off the ground next to the authorized pump. Reference instructions for placard display in Section E of Management Policies.
11. This agreement is personal, revocable, and nontransferable.
12. This agreement will terminate:
 - If applicant fails to pay the annual charge when due.

WATER RIGHT AGREEMENT - IRRIGATION PLAN

THIS WATER RIGHT AGREEMENT, made and entered into this _____ day of _____, 20__, between «**name**», of the County of «**county**», State of «**state**», hereinafter referred to as “Grantor” and TRUCKEE-CARSON IRRIGATION DISTRICT, hereinafter referred to as “District”.

WITNESSETH

WHEREAS, Grantor has acquired certain water entitlements within the Newlands Project of the State of Nevada, amounting to «**totalacres**» acre(s) of water rights bearing the District Serial # «**serialno**» and «**county**» County Assessor’s # «**apn**»; and

WHEREAS, Grantor has submitted to the appropriate authorities in «**county**» County, a parcel map, District Map Identification # «**idno**», «**county**» County File # _____ (to be inserted when final maps are recorded) which seeks to subdivide water-righted land; and

WHEREAS, the District and «**county**» County require that all water-righted parcel(s) have easements dedicated for the continuance of irrigation deliveries to such parcel(s), as well as provisions for drainage, a water user’s association, and other criteria; and

WHEREAS, Grantor desires to continue irrigation of the entire «**totalacres**» acres of water rights during the «**present_yr**» irrigation season before the installation of the irrigation system that is required to irrigate each of the «**parcels**» parcel(s) separately; and

WHEREAS, the District has agreed to accommodate Grantor by accepting the following water rights as security for grantors promise to install the irrigation system to each parcel after the «**present_yr**» irrigation season and before the «**next_yr**» irrigation season.

«**description**», M.D.B.&M., in the «**county**» County Records. (See Quitclaim Deed recorded with this agreement); and

NOW THEREFORE, the parties agree as follows:

1. Grantor understands and agrees that by signing this agreement and Quitclaim Deed, the District will own, in trust, and control such water rights that are appurtenant to the above-described parcels. Grantor further understands that as long as these water rights are in trust, Grantor will not be able to vote such water rights at District elections.
2. Grantor understands that the District’s subdivision policy requires an irrigation system approved by the District, which provides a method and means to separately irrigate each subdivided parcel. However the existing irrigation system and crop on the entire «**totalacres**» acres of water rights is not in compliance with the District’s policy, but Grantor desires to continue the existing irrigation of the «**totalacres**» acres of water rights and wait until the end of the «**present_yr**» irrigation season before installing the required irrigation system to each parcel.
3. Grantor understands that this Water Right Agreement and Quit Claim Deed are for the purpose of securing to the District the Grantor’s promise to comply with the District’s subdivision policy prior to the «**next_yr**» irrigation season.
4. The District agrees to allow the Grantor to continue irrigation of the «**totalacres**» acres of water righted land without complying with the District’s subdivision policy for the «**present_yr**» irrigation season only based upon the unique circumstances of Grantor’s irrigation system now in place.

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5. Grantor understands and agrees that the District will release its security interest in the «**totalacres**» of water rights upon the Grantor completing the installation of the required irrigation system to each of the «**parcels**» parcels prior to the «**next_yr**» irrigation season.
6. Grantor further understands and agrees that should he/she fail to install the irrigation system prior to the «**next_yr**» irrigation season that the water rights will then be held in trust by the District as if the land was developed as non-water righted land and the Grantor shall then comply with all the other terms and conditions of this agreement or otherwise the water rights will belong to the District.
7. Grantor understands that such water rights or portion thereof may be used by Grantor on the hereinabove described parcels only upon the following conditions:
 - Grantor has made application to the District prior to February 15th of the year in which Grantor wants to use such water and water rights.
 - Grantor has paid all taxes and assessments on such water rights and there are no delinquent taxes and assessments outstanding.
 - Grantor has reserved such water and water rights in any deed or other instrument, which conveys any portion of the land to which the water rights are appurtenant.
8. Grantor further understands that if the water and water rights or portion thereof are to be sold, transferred, deeded or otherwise disposed of, Grantor must first obtain the permission of the District for such sale, transfer, conveyance or disposition. The District agrees not to unreasonably withhold the District's permission to such disposal as long as Grantor has complied with all the terms of this agreement. Upon sale or other disposition the new owner shall sign and execute an agreement with the District similar to the terms hereof until the water and water rights have been approved for transfer to other lands by the Nevada State Engineer.
9. Grantor understands and agrees that the District will not approve sale or transfer of "active" water rights only without additional or different security provided to the District on the remaining water rights.
10. Grantor understands that there is remaining outstanding at this time the amount of _____ as and for the original construction obligation of the water rights herein; and Grantor agrees to pay in full such outstanding obligation at the time of approval of this Water Right Agreement.
11. If Grantor does not notify the District by February 15 of Grantors intended use (see para. 2) or has not notified the District of a sale or other disposition of such water rights (see para. 3), Grantor understands and agrees that the District may temporarily transfer or use such water and water rights for any and all beneficial purposes that the District deems to be in the best interests of the District.
12. Grantor warrants that the ownership rights to the water entitlements that are described herein, within the Newlands Project amounting to «**totalacres**» acres of water rights which currently bears the District Serial # «**serialno**» and «**county**» County Assessor # «**apn**» have not previously been transferred, sold or otherwise assigned.
13. At the time of signing of this agreement, Grantor warrants that all assessments and charges against the District's Serial # «**serialno**», «**county**» County Assessor # «**apn**»

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have been paid in full or have been assessed on the current tax roll and such taxes are in good standing and are not delinquent.

- 14. Grantor understands and agrees that the divided parcel(s) will be taxed and assessed annually and such parcel(s) will be subject to such assessments of the District until the water right has been approved for transfer to other land by the Nevada State Engineer. Until such time as the State Engineer approves the transfer of such water right, the Grantor agrees to pay upon billing and within thirty (30) days thereof, all water and other assessments levied upon such parcel(s) by the District.
- 15. It is further understood and agreed that should the O&M assessments not be paid within thirty (30) days, such assessments and charges shall bear interest at the rate of 1-1/2% per month until paid; that should such assessments and charges not be paid for a period of three (3) years, such water right quitclaimed to the District shall thereafter become the property of the District and all rights of Grantor shall be permanently transferred to the District for such delinquency.
- 16. It is further understood and agreed that should the District actually use the water and water rights or portion thereof during any year then the Grantor would not be billed for or have any obligation for the District O&M assessments for the portion of water rights used for that particular year.
- 17. It is further understood that it is the District’s policy to only sign one water right agreement with respect to the division of water right land, therefore it is agreed that Grantor(s) will not, nor will Grantor(s) heirs successors and assigns, request the District to sign any other water right agreement that involves the water rights (amounting to «totalacres» acres) as shown on parcel(s) «parcels» of the parcel map (District’s map Id #«idno») and the map attached to the quitclaim deed executed as part of this agreement.
- 18. This agreement shall inure to the benefit and bind the heirs, executors, administrators, and assigns of the parties hereto.

The address to which the District shall send the invoice for the O&M assessment shall be as follows, unless the District is notified in writing of a change of address prior to April 15th.

Name: «name»
Address: «address»

IN WITNESS WHEREOF, the parties hereto have hereunto set their hands the day and year first above written.

«name»

«name»

DISTRICT

TRUCKEE-CARSON IRRIGATION

Rusty D. Jardine, Esq., Project Manager

MANAGEMENT POLICIES – SECTION J

SPECIFICATION & CONSTRUCTION STANDARDS

Bridge Specifications

| A SPAN | STEMWALLS & WINGWALLS | |
|---------------|--------------------------|--------------------------------------|
| | CONCRETE THICKNESS | STEEL SIZE & SPACING |
| 4' to 5' | 8" THICK 3,000 P.S.I. | #4 BAR 12" C.C. SINGLE CURTAIN |
| 6' to 7' | 8" THICK 3,000 P.S.I. | #4 BAR 12" C.C. SINGLE CURTAIN |
| 8' to 9' | 8" THICK 3,000 P.S.I. | #4 BAR 12" C.C. SINGLE CURTAIN |
| 10' to 11' | 8" THICK 3,000 P.S.I. | #4 BAR 12" C.C. DOUBLE CURTAIN |
| 12' to 13' | 8" THICK 3,000 P.S.I. | #4 BAR 12" C.C. DOUBLE CURTAIN |

| B SPAN | BOTTOM SLAB & FOOTINGS | |
|---------------|------------------------------------|-------------------------------|
| | CONCRETE THICKNESS | STEEL SIZE & SPACING |
| 4' to 5' | 8" THICK SLAB 10" x 24" FOOTING | #4 BAR 12" C.C. SINGLE MAT |
| 6' to 7' | 8" THICK SLAB 10" x 24" FOOTING | #4 BAR 12" C.C. SINGLE MAT |
| 8' to 9' | 8" THICK SLAB 10" x 24" FOOTING | #4 BAR 8" C.C. SINGLE MAT |
| 10' to 11' | 8" THICK SLAB 12" x 24" FOOTING | # BAR 6" C.C. SINGLE MAT |
| 12' to 13' | 8" THICK SLAB 12" x 24" FOOTING | #5 BAR 6" C.C. SINGLE MAT |

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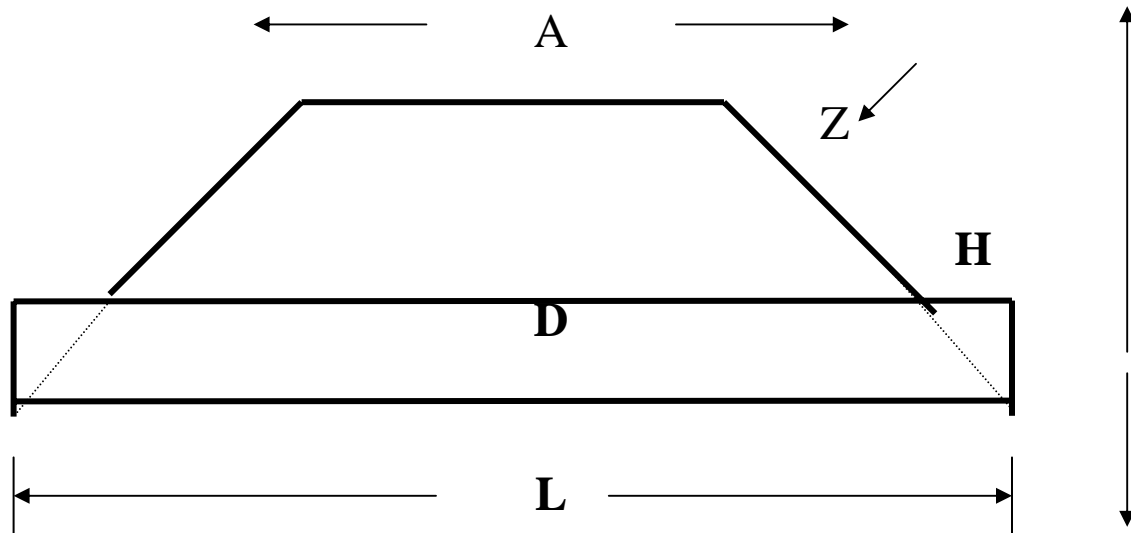
| C SPAN | DECK SLAB | | |
|------------|-----------|-----------------|--|
| | “T” | TOP MAT STEEL | BOTTOM MAT STEEL |
| 4' to 5' | 8" | #4 BAR 18" C.C. | #5 BAR 12" I.D.O.T. 12" O.D.O.T. |
| 6' to 7' | 8" | #4 BAR 18" C.C. | #5 BAR 11" I.D.O.T. 12" O.D.O.T. |
| 8' to 9' | 8" | #4 BAR 18" C.C. | #5 BAR 9" I.D.O.T. 11" O.D.O.T. |
| 10' to 11' | 10" | #4 BAR 18" C.C. | #6 BAR 7" I.D.O.T. 9" O.D.O.T. |
| 12' to 13' | 10" | #4 BAR 12" C.C. | #6 BAR 4" I.D.O.T. 6" O.D.O.T. |

I.D.O.T. = DIRECTION OF TRAFFIC
O.D.O.T. = OPPOSITE DIRECTION OF TRAFFIC
SINGLE CURTAIN & MAT – CENTER IN CONCRETE
DOUBLE CURTAIN & MAT – CENTER 2" FROM EXTERIOR
SURFACES Drain Crossing Installation

MANAGEMENT POLICIES – SECTION J

Drain Crossing Installation

DIMENSION OF CROSS SECTION VIEW



PIPE SPECIFICATIONS:

1. 12 gauge asphalt coated pipe
2. ADS polyethylene pipe

FORMULA:

1. $L = 2 (HX2) + A$
2. A = ROAD WIDTH AS SPECIFIED BY CITY, COUNTY AND OTHER ORDINANCES
3. D = DIAMETER OF PIPE AS SPECIFIED BY T.C.I.D.
4. Z = FILL SLOPE AS SPECIFIED BY T.C.I.D. SLOPE WILL BE 2:1
5. H = DEPTH OF FILL AS SPECIFIED BY PROPOSED SITE NEEDS
6. RIP RAP WILL BE 3" +
7. COMPACTION 95%