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DESIGNED BY	CHECKED BY	DATE	BY

CITY OF RIO RANCHO

PUBLIC WORKS  
GENERAL NOTES

DESIGNED BY: BMP  
CHECKED BY:  
DATE: AUG. 1, 2014  
DPW CHK:  
SHEET:

RIO RANCHO, NEW MEXICO

**ADA GENERAL NOTES**

- These drawings provide guidance for compliance with the current public right of way accessibility guidelines (PROWAG). These standards shall apply to all new and altered sidewalks.
- Surfaces shall be stable, firm, and slip resistant. Sidewalk and curb ramp surfaces shall provide consistent slopes within each section.
- All street lighting altered or destroyed during construction shall be replaced by the Contractor to All Board finishes shall be perpendicular to the direction of pedestrian travel.
- A vertical change of 1/4 inch (6mm) or less is allowed. If greater than 1/4 inch and 1/2 inch (6mm and 13mm), then it needs to be beveled 2:1. Changes greater than 1/2 inch shall be ramped.
- Openings or cracks in sidewalks surfaces shall not exceed 1/2 inch (13mm). Elongated openings should be placed so that the long dimension is perpendicular or diagonal to the dominant direction of travel.
- The least possible curb ramp slope shall be used. Curb ramps running slope shall not exceed 12:1. Where existing terrain is steep, curb ramps shall not exceed 15:6 inch length.
- Provide a flush transition between curb ramps, sidewalks, gutters, and edge of pavement. Free of drainage lip, abrupt grade changes, drop-offs, or any surface irregularities. A 5% (20:1) or flatter transition layer shall be provided from the street to the gutter for curb ramp locations (this may require special treatment of the edge of OGI) when diagonal (not in line with crosswalk) curb ramps are necessary. A 2% (60:1) transition or lower landing shall be provided. The gutter running slope (flow line) shall not exceed 2% measured along the bottom of the curb ramp.
- Curb ramps shall be located to provide the most direct route of travel across the traffic lanes.
- Two directional (in line with the crosswalk) curb ramps per corner are used in order to provide short and direct crossings for users.
- Sign posts, utility poles, the hydrants, traffic signals standards, light poles, bollards, meters, valves, etc., shall not be located in the curb ramp including sidewalks, flares and landings.
- In order to better accommodate conditions in the field, the contractor shall obtain final approval of curb ramp locations from the project manager and the city traffic engineer. When necessitated by existing physical conditions, alternate curb ramps must be submitted to the project manager for approval by the city traffic engineer.
- Landings shall be a minimum of 4'6" x 4'. Slopes shall not exceed 2% (50:1) in all directions.
- Detectable warnings are required at all street intersections, signalized driveways, commercial driveways 30' wide or greater, and marked crosswalks.
- Concrete Procedural note: Before scheduling delivery of concrete, contractor shall meet with City Inspector/PM to ensure the concrete formwork is constructed to dimensions and grades shown on plans and meets PROWAG, 2011 Technical Design Criteria, California 24 electronic digital level with Contractor's electronic digital level prior to verifying measurements. Verify measurements meet requirements or require correction of all discrepancies before scheduling of concrete to ensure the finished concrete will meet PROWAG. When all measurements meet requirements then the inspector shall permit concrete pour. Repeat the procedure after concrete pour to ensure the curb ramp meets PROWAG compliance. Final acceptance of a curb ramp does not occur until the final inspection of the project. This procedure shall be considered incidental to the installation of the ADA curb ramp.
- The contractor shall submit a proposed work plan for pedestrian improvements to the project engineer for review and approval prior to initiating this work. This plan shall include the method proposed to maintain pedestrian access to businesses, schools, hospitals, buildings, etc. throughout the pedestrian improvements construction. In particular, the contractor, at all times, shall maintain a 4' clear path for pedestrians so as to meet ADA accessibility requirements. All temporary pedestrian facilities implemented during construction shall comply with ADA standards.
- Sidewalk and curb ramp cross slope is recommended to be constructed for a cross slope of 1.5% utility, but shall not exceed 2.2% cross slope on the pedestrian access route.

**WATER GENERAL NOTES**

- For water connections to existing lines, the Contractor shall notify the City's Project Manager a minimum of 48 hours before the connection.
- Compression joints may be used on copper service lines. Flared joints shall be used when connecting to steel/cast-iron.
- Valve boxes shall be brought to surface elevation upon completion of the surface course of pavement. Concrete collars shall be constructed to surface elevations.
- Flushing of water lines shall be initiated and reported to the City's Project Manager on a weekly basis. Preference for flushing is (1) on available land surface or (2) in storm sewers. Disposal methods shall be discussed with the City's Project Manager.
- Flushing, disinfection and testing of water lines shall be coordinated with the City's Project Manager.
- It will be the Contractor's sole responsibility to protect and maintain, in service, all existing utilities. The Contractor shall adequately support and protect existing utilities affected by the Contractor's trenching activity. In the event that existing utilities are damaged by the Contractor's operations, the Contractor shall arrange for and coordinate prompt repair by the respective utility and shall bear the cost of the repairs.
- All water lines must have tracer wire and marker balls per City of Rio Rancho standard drawings.
- The City of Rio Rancho shall approve material submittals before construction.
- Before any water line installation, the following conditions will occur:
  - The water line route will be cleared and grubbed and then graded to plan elevation
  - The water line will be staked when outside an area with curb and gutter.
- The City of Rio Rancho Utilities Operations Division shall be the only personnel authorized to operate existing valves, fire hydrants, etc. for construction purposes. All shutoffs must be coordinated with the City's Project Manager seven (7) days before proposed shutoff and shall comply with the accepted shutoff plan.
- The Contractor is responsible for testing of all lines, including but not limited to, hydrostatic and bacteria testing, disinfecting, and flushing. The Contractor is responsible for the testing of the water line system before acceptance by the City. Testing shall be performed to demonstrate the functionality of the system. All costs for these requirements are incidental to the Contractor.
- For non-hot tap water connections to existing lines, the Contractor shall prepare and submit to the City's Project Manager, for acceptance, a water shutoff plan 48 hours before the connection is to be made.
- The Contractor shall mark the top of the curb with a "W" for water lines following service installations and before final acceptance.

**WASTEWATER GENERAL NOTES**

- Sewer/Water lines shall be placed in separate trenches at a distance of 15 feet typically or a minimum of 10 feet apart horizontally. The water line shall be placed a minimum of 1.5 feet higher in elevation than the sewer line. At all crossings of water and sewer lines, the water line shall be a minimum of 1.5 feet higher than the sewer line or the sewer line shall be <C60 pressurized pipe.
- It will be the Contractor's sole responsibility to protect and maintain in service all existing utilities. The Contractor shall adequately support and protect existing utilities affected by the Contractor's trenching activity. In the event that existing utilities are damaged by the Contractor's operations, the Contractor shall arrange for and coordinate with the Project Manager, prompt repair by the respective utility and shall bear the cost of the repairs.
- The City of Rio Rancho shall approve material submittals before construction.
- Prior to the sewer line installation, the following conditions will occur:
  - The sewer line route will be cleared and grubbed and then graded to plan elevation
  - The sewer line will be staked when outside an area with curb and gutter
- All sewer lines must have tracer wire and marker balls per City of Rio Rancho standard drawings.
- The City of Rio Rancho Utilities Operations Division shall be the only personnel authorized to operate existing valves, etc. for construction purposes. All shutoffs must be coordinated with the City's Project Manager seven (7) days before proposed shutoff and shall comply with the accepted shutoff plan.
- 30 days following installation and backfill of sewer lines, a deflection test using a hand pulled manhole shall be performed in the presence of the City's Inspector. All costs for these requirements are incidental to the Contractor.
- Air testing of sewer lines and hydrostatic testing of force mains shall be conducted in the presence of the City's Inspector. All costs for these requirements are incidental to the Contractor.
- All sewer service lines shall be inspected by TV camera and videoed then provided to the City's Inspector for review before acceptance by the City. In the event that the first inspection or subsequent inspections after that do not pass, the Contractor will be required to perform additional inspections of the sewer service lines using a TV camera at the Contractor's expense.
- Manholes shall meet the City of Rio Rancho standards except that there shall be no ladder runs installed.
- The Contractor is responsible for testing of all force main lines, including but not limited to hydrostatic and bacteria testing, disinfecting, and flushing. All costs for these requirements are incidental to the Contractor.
- Bypass pumping is required, then a bypass pumping plan must be submitted to the City's Project Manager, for acceptance, seven (7) days before bypass pumping begins.
- The Contractor shall mark the top of the curb and pan of the gutter with "S" for sanitary sewer following service installation and before final acceptance.
- Manholes shall be raised to surface course of pavement. Circular concrete collars shall be constructed to surface elevation.
- No bricks shall be used to adjust manholes to finished grade.

**SOILS**

- Unless otherwise specified subgrade soils and structural fill materials shall be compacted to the following percentages of the ASTM D-1557 maximum density.

MATERIALS	PERCENT (%) COMPACTION
STRUCTURAL FILL IN THE BUILDING AREA	95
BASE FOR SLAB	95
MISCELLANEOUS BACKFILL BELOW STRUCTURAL FILL OR ROAD	95
MISCELLANEOUS BACKFILL BELOW UNPAVED	90
NON-ENCLOSING BACKFILL	90
ROAD SUB GRADE	95
SIDEWALK SUB GRADE	90
CURB AND GUTTER SUBGRADE	95
ARROYOS	90

**ROADWAY CONSTRUCTION NOTES**

- No paving construction activity shall be started until all underground utilities within the roadway are completed, tested, and approved. All water valve boxes and electrical, telephone, teledata, and sewer manholes in the construction area shall be adjusted to finished grade.
- All signs, barricades, channelization devices, pavement markings, sign frames and erection of such devices shall conform to the requirements of the "Manual on Uniform Traffic Control Devices for Streets and Highways" (MUTCD), current edition.
- All street signing altered or destroyed during construction shall be replaced by the Contractor to match the original conditions (i.e. type, spacing) at the location prior to construction, or as shown in IIS plan set.
- Street grades shall be restored by the Contractor to the existing grades unless otherwise directed by the City of Rio Rancho. Stormwater transitions shall be made between existing pavement and remain in place and pavement which is replaced. When abutting new pavement to existing, saw cut back existing pavement to a minimum depth as required to remove any broken or cracked pavement. Refer to standard drawing PS-20.
- The location of all valves and manholes must be referenced to all lines by the Contractor during construction and made accessible daily upon completion of all paving activities.

**EROSION CONTROL/ENVIRONMENTAL PROTECTION/STORM WATER POLLUTION PREVENTION PLAN**

- The Contractor shall be responsible for limiting all necessary Nonpoint Pollutant Discharge Elimination System (NPDES) requirements including, but not limited to, obtaining an NPDES permit before construction, filing out the Notice of Intent (NOI) application, and filing out the Notice of Termination (NOT) application. The Contractor shall also be responsible for the implementation of and inspection reports for the Storm Water Pollution Prevention Plan (SWPPP). The Contractor shall submit the SWPPP with the proposed construction staging area and temporary sanitary facilities clearly shown. Any check dams, silt fences, or other Best Management Practices (BMP) that are required in the approved SWPPP shall be included in and be incidental to the SWPPP bid amount.
- The Contractor is required to keep a current copy of the SWPPP at the construction site or at an easily accessible location so that it can be made available at the time of an on-site inspection or upon request by the EPA, a state, tribal or local agency approving storm water management plans; the operator of a storm sewer system receiving discharges from the site; or representatives of the U.S. Fish and Wildlife Service (USFWS) or the National Marine Fisheries Service (NMFS).
- The Contractor shall conform to the City, County, State and Federal dust and erosion control regulations. The Contractor shall prepare and obtain any necessary dust or erosion control permits from the regulatory agencies.
- The Contractor shall either promptly remove any material excavated within the public Right-of-Way or install BMPs according to NPDES requirements to prevent discharge of excavated materials within the public Right-of-Way during a rain or wind event. All costs for these requirements are incidental to the Contractor.
- The Contractor shall implement the approved SWPPP and ensure that no soil enters from the site into public Right-of-Way or onto private property.
- The Contractor shall mitigate erosion of temporary or permanent dirt swales by installing BMPs identified in the approved SWPPP at the swales perpendicular to the direction of flow, and at intervals as specified in the SWPPP.
- Construction areas shall be watered for dust control in compliance with government ordinances. The Contractor shall be responsible for locating and supplying water as required. Watering as required for construction and dust control shall be considered incidental to construction and no measurement or payment shall be made therefore.
- Any areas disturbed by construction and not covered by landscaping or an impervious surface shall be re-vegetated with native grass seeding. When construction activities cease and earth stabilizing activities will not resume within 14 days, stabilizer measures must be installed. Unless indicated otherwise on these plans or on the landscaping plan, native grass seeding shall be in accordance with Section 1017 of the New Mexico Standard Specifications for Public Works Construction, APWA NM Chapter, current edition.
- All waste products from the construction site, including items designated for removal, construction waste, construction equipment waste products (oil, gas, tires, etc.), garbage, grubbing, excess cut material, vegetative debris, etc., shall be appropriately disposed of offsite at no additional cost to the City. It shall be the Contractor's responsibility to obtain permits required to haul or dispose of waste products. It shall be the Contractor's responsibility to ensure that the waste disposal site complies with government regulations regarding the environment, endangered species, and archeological resources.
- The Contractor shall be responsible for the cleanup and reporting of spills of hazardous materials associated with the construction site. Hazardous materials include gasoline, diesel fuel, motor oil, solvents, chemicals, paints, etc. which may be a threat to the environment. The Contractor shall report the discovery of past or present spills to the New Mexico Environment Department Emergency Response Team at (505) 827-6229.
- The Contractor shall comply with all applicable regulations concerning surface and underground waste. Contact with surface water by construction equipment and personnel shall be minimized. Equipment maintenance and refueling operations shall be performed in an environmentally safe manner in compliance with government regulations.
- Where storm inlets are susceptible to inflow of all or debris from construction activities, protection shall be provided on their upstream side according to NPDES requirements. All costs for these requirements are incidental to the Contractor.
- Storm Water Pollution Prevention Plans (SWPPP) and accompanying Federal EPA Administrative Procedures shall meet the City of Rio Rancho guidelines and procedures outlined in the current edition of the New Mexico State Highway and Transportation Department Storm Water Management Guidelines for Construction and Industrial Activities Manual.
- The Contractor shall provide adequate means for cleaning trucks and other equipment of mud before entering public streets. It is the Contractor's responsibility to clean streets and take whatever measures are necessary to ensure that all roads are maintained in a clean, mud and dust-free condition at all times.
- No work may begin in an arroyo or other drainage way until authorization has been provided by the U.S. Army Corp. of Engineers and the City of Rio Rancho Flood Plain Manager.

**GENERAL NOTES**

- All construction shall be performed in accordance with 1) the project construction plans, 2) the project specifications, 3) the current edition of the City of Rio Rancho standard details, 4) the current edition of the MHDOT Standard Specifications for Highway and Bridge Construction, and 5) the New Mexico Standard Specifications for Public Works Construction and details, as prepared by the New Mexico Chapter, American Public Works Association and addendum. In the case of conflicting specifications, the City of Rio Rancho will determine which specification governs.
- The Contractor agrees to assume the sole and complete responsibility for the job site conditions during the course of construction of the project, including safety of all persons and property. This requirement shall apply continuously and not be limited to normal working hours, and the Contractor shall defend, indemnify and hold the City and Engineer harmless from any and all liability, real or alleged, in connection with the performance of the work on this project, except for liability arising from the sole negligence of the City or Engineer.
- No modifications to these plans shall be made without the written consent of the City, Engineer, and all approval signatories. The Engineer shall not be responsible for construction methods or techniques or for the prosecution of the work as shown on these plans. The Engineer shall not be held responsible for the acts or omissions of the Contractor, Subcontractors, or other persons performing any work, as shown in the project Contract Documents.
- A Right-of-Way Use Permit and Traffic Control Plan (TCP) are required for all work performed within the public Right-of-Way. Provisions contained within Chapter 96 of the City of Rio Rancho Municipal Code shall govern. All construction signing, barricading, and channelization devices shall conform to the latest edition of the Manual on Uniform Traffic Control Devices (MUTCD). The Contractor is responsible for the setup and maintenance of all traffic control devices. Any modifications to the approved traffic control plan must be approved by the City prior to any changes being implemented. A Traffic Control Supervisor must be available for the duration of the project 24 hours a day and seven days a week. Access to residents and businesses must be maintained at all times.
- The Contractor shall designate at least one emergency contact person, and shall provide telephone numbers where this person can be contacted at any time. This information shall be provided to the City's Project Manager.
- The Contractor is responsible for obtaining all necessary permits from all jurisdictional authorities before the start of construction.
- All work on this project shall be performed in accordance with applicable federal, state, and local laws, rules and regulations concerning construction safety, health, and environmental protection.
- Existing site improvements which are damaged or displaced by the Contractor shall be removed and replaced by the Contractor at the Contractor's own expense. The work shall be approved by the City before construction of the repairs. Repairs must be accepted by the City before final payment.
- The Contractor shall only utilize the designated staging areas for storage of all equipment and materials. The City assumes no responsibility or liability for the Contractor's equipment and materials in the staging areas. Security shall be the sole responsibility of the Contractor. If no staging area is designated on these plans, an offsite staging area shall be provided by the Contractor at the Contractor's expense, or the Contractor may negotiate with the City to use an on-site area.
- Unless otherwise noted, all roadway stationing is along the centerline of the roadway right-of-way.
- Unless otherwise noted, stationing of channels and/or pipes in drainage easements is along the centerline of the channel.
- The Contractor shall be responsible for determining, in advance of their construction operations, if overhead utility lines, support structures, poles, guys, etc., are an obstruction to construction operations. If any obstruction is evident, the Contractor shall be responsible for coordinating with the appropriate utility owner to remove or support the utility structure. All costs for these requirements are incidental to the Contractor.
- Facilities which are not specifically located with actual vertical and horizontal controls on the construction documents, are shown approximate and in accordance with the best available information provided by various owners of the facilities, and supplemented by visual surface information where appropriate. Accuracy, location, and completeness of this information is the sole responsibility of the Contractor and should be verified, by any means necessary, before the initiation of construction. Should a conflict exist, the Contractor shall notify the City, Engineer, and the City's Project Manager immediately.
- It is mandatory that a preconstruction meeting be held before commencing construction. The Contractor is responsible for contacting the City's Project Manager to determine the time and location of the preconstruction meeting.
- At the preconstruction meeting, the Contractor shall submit a detailed construction schedule to the City's Project Manager. The schedule will be updated on a monthly basis and submitted with the monthly invoice.
- Any work performed without the approval of the City of Rio Rancho and/or all work and materials not in conformance with the specifications is subject to removal and replacement at the Contractor's expense.
- The Contractor shall contact NM 811 at 1-800-321-2537 for utility spots in accordance with applicable state law.
- The Contractor shall confine their work to within the construction limits and/or public Right-of-Way to preserve existing vegetation, landscaping, and private property. Approval of these plans does not give or imply any permission to trespass or work on private property. Permission must be granted in writing by the Owner of that property.
- It is the sole responsibility of the Contractor to keep the job site free from trash on a daily basis, and all materials will be neatly organized. Trash and/or non-used materials shall not be balled curbside.
- The Contractor shall park equipment and vehicles so as not to interfere with normal activities of residents, other Contractors, or Emergency Services.
- The Contractor will provide construction staking utility approved construction plans, the appropriate Right-of-Way maps, recorded plans, and City of Rio Rancho standard details. Each relation to the plans shall be recorded in the plan relation book. Plans shall include a location map with legal descriptions and location grid.
- The Contractor shall maintain an up-to-date and accurate set of Working Record Drawings, redlined drawings. In accordance with the City of Rio Rancho's Development Process Manual (DPM) Chapter 117, These Working Record Drawings shall reflect all approved changes to the original plans throughout the construction process. At the completion of construction, the Contractor shall submit the Working Record Drawings as outlined in the City of Rio Rancho's DPM Chapter 117. Also, the Contractor shall ensure that all submittals, permitting, and construction activities are in accordance with the City of Rio Rancho's DPM and applicable ordinances. All costs for these requirements are incidental to the Contractor.
- No work shall be performed in a floodplain without written authorization from the City's Floodplain Manager.
- Any work performed in a drainage way, channel, arroyo, or floodplain must be protected by the means identified in the Temporary Erosion Control and Sediment Plans approved by the City.
- Vibration monitoring will be at the Contractor's discretion and incidental to the Contract.