North Bay at Lake Woodmoor RESIDENTIAL SUBDIVISION CONSTRUCTION DRAWINGS

Prepared for Lake Woodmoor Holdings, LLC

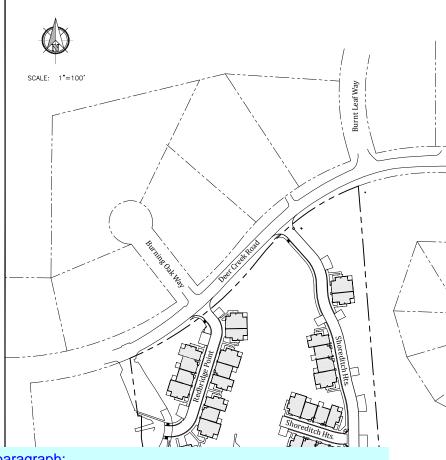
EL PASO COUNTY STANDARD NOTES

- All drainage and roadway construction shall meet the standards and specifications of the City of Colorado Springs/El Paso County Drainage Criteria Manual, Volumes 1 and 2, and the E
- Contractor shall keep a copy of these approved plans, the Grading and Erosion Control Plan, the Stormwater Management Plan (SWMP), the soils and geotechnical report, and the porture.us is stail seep a copy of these approved plans, the Grading and Erosion Control Plan, the Stormwater Manage oppropriate design and construction standards and specifications at the job site at all times, including the following: El Paso County Engineering Criteria Manual (ECM) City of Colorado Springs/El Paso County Drainage Criteria Manual, Volumes 1 and 2 Colorado Department of Transportation (CDOT) Standard Specifications for Road and Bridge Construction CDOT M & S Standards

- Notwithstanding anything depicted in these plans in words or graphic representation, all design and construction related to roads, storm drainage and erosion control shall conform to the standards and requirements of the most recent version of the relevant adopted EI Paso County standards, including the Land Development Code, the Engineering Criteria Manual, Drainage Criteria Manual, and the Drainage Criteria Manual Volume 2. Any deviations from regulations and standards must be requested, and approved, in writing. Any modifications necessary to meet criteria after-the-fact will be entirely the developer's responsibility to rectify.

- It is the contractor's responsibility to understand the requirements of all jurisdictional agencies and to obtain all required permits, including but not limited to El Paso County Erosion and Stormwater Quality Control Permit (ESQCP), Regional Building Floodplain Development Permit, U.S. Army Corps of Engineers-issued 401 and/or 404 permits, and county and state
- Contractor shall not deviate from the plans without first obtaining written approval from the design engineer and DSD. Contractor shall notify the design engineer immediately upon
- Contractor shall coordinate geotechnical testing per ECM standards. Pavement design shall be approved by El Paso County DSD prior to placement of curb and gutter and paver

- The limits of construction shall remain within the property line unless otherwise noted. The owner/developer shall obtain written permission and easements, where required, from adjoining property owner(s) prior to any off-site disturbance, grading, or construction.



GENERAL NOTES

- All new construction to conform to the specifications of the El Paso County Development Services Department. Any asphalt to be removed is to be replaced to me the specifications of the El Paso County Development Services Department.

 A Pre-Construction meeting shall be held with the El Paso County Development Services Department and Woodmoor Water and Sanitation District prior to any
- Approved plans, County Engineering Criteria Manual, etc. is required to be on-site at all times.
- All necessary permits, such as a Stormwater Discharge Permit and associated Stormwater Management Plan, Fugitive Dust, Access, etc. shall be obtained prior to
- Profile design lines and horizontal stationing are based on centerline, as shown, unless otherwise noted.
- Profile deet gig lines no be horszonta resistancing are lue "R' dierrom Hevem terrine, as shown, under ore approvee botte. Pavement gig line to be based on resistancing are lue "R' derrom Hevem the stand under approvee botte. El Paso County Development Servi Add as a 3rd paragraph:

- STREET R.O.W - STREET CENTER LINE - PROPOSED WATER

PROPOSED WATER HYDRANT

PROPOSED WATER VALVE

PROPOSED SANITARY MH

PROPOSED SANITARY SEWER

PROPOSED STORM SEWER

PROPOSED STORM MH

PROPOSED STORM FES

PROPOSED BOXBASE MH

EXISTING WATER HYDRANT

EXISTING WATER VALVE

EXISTING SANITARY MH

=== EXISTING SANITARY SEWER

EXISTING STORM SEWER

☐ EXISTING STORM INLET

EXISTING STORM MH

EXISTING STORM FES

Benchmarks: NGS Benchmark "T 395" -- Elevation = 7111.32 (NAVD 1988) TBM#1 Northwest Property Corner (N22,611.42, E49,719.36) Elevation=7133.64 TBM#2 Northeast Property Corner (N23,006.10, E50,252.56) Elevation=7134.40

LEGEND

INDEX OF SHEETS

Lake Fork Dirty Woman Creek Plan and Profile

Grading and Erosion Control Details Grading and Erosion Control Details
Plan and Profile - Redbridge Pt. & Shoreditch Hts.
Plan and Profile - Shoreditch Heights

Utility Plan Cover Sheet Utility Plan Utility Services Plan Water Plan and Profile -

Water Plan and Profile

Storm Sewer Details

Sand Filter Details

Shoreditch Heights Cro

Signing and Striping Plan Miscellaneous Civil Detail

Storm Sewer Plan and Profiles

Pavement design to be based on resistance value 'R' derived from Hveem tests and are approved by the El Paso County Development Servi work above subgrade.

The locations of existing utilities have been shown according to the best available information. The contractor is responsible for field locat existing utilities prior to beginning work. If it appears that there could be a conflict with any utilities, whether indicated on the plans or no the engineer and qwner immediately. The contractor is responsible for the protection and repair (if necessary) of all utilities.

Where appropriate, neatly sawcut all existing concrete and asphalt. Repair/replace all disturbed existing items with like materials and thic All disturbed areas shall be revegetated with native grasses within 30 days of excavation per Erosion Control Plan.
The prepared Erosion/Sediment Control Plan is to be considered a part of these plans and its requirements adhered to during the construct

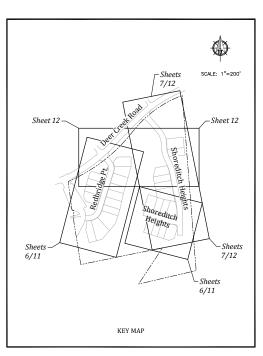
the El Paso County Engineer. If construction has not started within those The prepared Erosion/Sediment Control Plan is to be considered a part of these plans and its requirements adhered to during the construct
sections. Pipe lengths given as a horizontal length.
 All storm sewer bedding to be per CDOT Standards.
 All storm sewer pipe class and type is called out on the plan and profile sheets.
 All storm sewer pipe class and type is called out on the plan and profile sheets.
 All yes and bends used in construction of stormsewer facilities shall be factory fabricated, unless approved by the E Paso County Develor
 (Construction and materials used in all storm and sanitary sewer manholes shall be per specification.
 Water and sanitary sewer service provided by Wolontain Usew Electric.
 All electric service provided by Blackhills Energy. Electric service provided by Mountain Usew Electric.
 All electric service provided by Wolontain Usew E payment of review fees at the Planning and Community Development

VICINITY MAP

El Paso County Planning and Community Development	Nina Ruiz	719-520-6313
Lake Woodmoor Holdings, LLC	Thomas Taylor	719-867-2250
N.E.S., Inc.	Ron Bevens	719-471-007
Kiowa Engineering Corp.	Andy McCord	719-630-7342
Woodmoor Water & Sanitation District		719-488-252
Mountain View Electric Assoc.		719-495-228
Tri-Lakes Monument Fire Protection District		719-484-091

Kiowa Project No. 15073 December 1, 2017

ABBREVIATIONS ASSY = ASSEMBLY BNDY = BOUNDARY BOP = BOTTOM OF PIPE CL = CENTERLINE CN = CONCRETE FINANCE CR = POINT OF CURB RETURN DIP = DUCTILE IRON PIPE EL = ELEVATION ESMT = EASEMENT EX. = EXISTING FC = FACE OF CURB RETURN EX. = EXISTING FC = FACE OF CURB FES = FLARED END SECTION FL = FLAR ABBREVIATIONS = MAXMUM = MANHOLE = MINHOUM = MINHOUM = NOT TO SCALE = OUTSIDE DIAMETER = POINT OF HORIZONTAL CURVATURE = ROPOSED = POINT OF HORIZONTAL TANGENCY = POLY VINYL CHLORIDE PIPE = POINT OF VERTICAL LURVATURE = POINT OF VERTICAL LINEASECRY = REPORTED CONCRETE BOX = REPORTED CONCRETE PIPE = RIGHT = RIGHT = RIGHT = SHEFT MAY = MAYMUM = MAYMUM = MINHOUSE - MAYMUM - VERTICAL TANGENCY - REPORTED CONCRETE PIPE = RIGHT = RIGHT = SHEFT - SHEFT -



Design Engineer's Statement:

These detailed plans and specifications were prepared under my direction and supervision. Said plans and specifications have been prepared according to the criteria established by the County for detailed roadway, drainage, grading and erosion control plans and specifications, and said plans and specifications are in conformity with applicable master drainage plans and master transportation plans. Said plans and specifications meet the purposes for which the particular roadway and drainage facilities are designed and are correct to the best of my knowle and belief. I accept responsibility for any liability caused by any negligent acts, errors or omissions on my part in preparation of these detailed plans and specifications.

Andrew W. McCord, P.E. #25057 or and on behalf of Kiowa Engineering Corp.

Owner/Developer's Statement:

I, the owner/developer have read and will comply with all of the requirements specified in these detailed plans and specifical

Thomas Taylor, Director of Development Services Date Lake Woodmoor Holdings, LLC 1755 Telstar Drive Suite 211 Colorado Springs, Colorado 8092

County plan review is provided only for general conformance with County Design Criteria. The County is not responsible for the accuracy and adequacy of the design, dimensions, and/or elevations which shall be confirmed at the job site. The County through the approval of this document assumes no responsibility for completeness and/or accuracy of this document.

Filed in accordance with the requirements of the El Paso County Land Development Code, Drainage Criteria Manual, and Engineering Criteria Manual as amended

Tri-Lakes Monument Fire Protection District:

The number of fire hydrants and hydrant locations as shown on the Utility System Plan are correct and adequate to satisfy the fire protection requirements as specified by the Tri-Lakes

Woodmoor Water and Sanitation District No. 1
Approved for Construction

These plans have been reviewed only for general conformance with District Rules and Regulations and System Specifications. Review and construction approval by the District does not relieve the Developer (Owner and/or Contractor from responsibility for compliance with any Rules, Regulations, or Specifications required by the District.

DEVELOPER:

Lake Woodmoor Holdings, LLC 1755 Telstar Drive Suite 211 Colorado Springs, CO 80920

PREPARED BY:



Colorado Springs, Colorado 80904 (719) 630-7342



GRADING AND EROSION CONTROL NOTES

- 1. Construction may not commence until a Construction Permit is obtained from Development Services and a Preconstruction Conference is held with Development Services Inspections.
- 2. Stormwater discharges from construction sites shall not cause or threaten to cause pollution, contamination, or degradation of State Waters, All work and earth disturbance shall be done in a manner that minimizes pollution of any on-site or off site waters, including
- 3. Notwithstanding anything depicted in these plans in words or graphic representation, all design and construction related to roads, storm drainage and erosion control shall conform to the standards and requirements of the most recent version of the relevant adopted El Paso County standards, including the Land Development Code, the Engineering Criteria Manual, the Drainage Criteria Manual, and the Drainage Criteria Manual Volume 2. Any deviations to regulations and standards must be requested, and approved, in
- 4. A separate Stormwater Management Plan (SWMP) for this project shall be completed and an Erosion and Stormwater Quality Control Permit (ESQCP) issued prior to commencing construction. During construction the SWMP is the responsibility of the designated
- Stormwater Manager, shall be located on site at all times and shall be kept up to date with work progress and changes in the field. 5. Once the ESQCP has been issued, the contractor may install the initial stage erosion and sediment control BMPs as indicated on the Grading & Erosion Control Plan. A preconstruction meeting between the contractor, engineer, and El Paso County will be held prior to
- 6. Soil erosion control measures for all slopes, channels, ditches, or any disturbed land area shall be completed within 21 calendar days after final grading, or final earth disturbance, has been completed. Disturbed areas and stockpiles which are not at final grade but will remain dormant for longer than 30 days shall also be mulched within 21 days after interim grading. An area that is going to remain in an interim state for more than 60 days shall also be seeded. All temporary soil erosion control measures and BMPs shall be

any construction. It is the responsibility of the applicant to coordinate the meeting time and place with County DSD inspections staff.

- maintained until permanent soil erosion control measures are implemented and established. 7. Temporary soil erosion control facilities shall be removed and earth disturbance areas graded and stabilized with permanent soil erosion control measures pursuant to standards and specification prescribed in the Drainage Criteria Manual DCM Volume II and the
- Engineering Criteria Manual (ECM) appendix I. 8. All persons engaged in earth disturbance shall implement and maintain acceptable soil erosion and sediment control measures including BMPs in conformance with the erosion control technical standards of the DCM Volume II and in accordance with the
- Stormwater Management Plan (SWMP). 9. All temporary erosion control facilities including BMPs and all permanent facilities intended to control erosion of any earth disturbance operations, shall be installed as defined in the approved plans, the SWMP and the DCM Volume II and maintained
- throughout the duration of the earth disturbance operation. 10. Any earth disturbance shall be conducted in such a manner so as to effectively reduce accelerated soil erosion and resulting
- sedimentation. All disturbances shall be designed, constructed, and completed so that the exposed area of any disturbed land shall be limited to the shortest practical period of time.
- 11. Any temporary or permanent facility designed and constructed for the conveyance of stormwater around, through, or from the earth disturbance area shall be designed to limit the discharge to a non-erosive velocity. 12. Concrete wash water shall be contained and disposed of in accordance with the SWMP. No wash water shall be discharged to or
- allowed to runoff to State Waters, including any surface or subsurface storm drainage system or facilities. 13. Erosion control blanketing is to be used on slopes steeper than 3:1. 14. Building, construction, excavation, or other waste materials shall not be temporarily placed or stored in the street, alley, or other
- public way, unless in accordance with an approved Traffic Control Plan. BMP's may be required by El Paso County Engineering if deemed necessary, based on specific conditions and circumstances. 15. Vehicle tracking of soils and construction debris off-site shall be minimized. Materials tracked offsite shall be cleaned up and properly disposed of immediately.
- 16. Contractor shall be responsible for the removal of all wastes from the construction site for disposal in accordance with local and State regulatory requirements. No construction debris, tree slash, building material wastes or unused building materials shall be buried,
- 17. The owner, site developer, contractor, and/or their authorized agents shall be responsible for the removal of all construction debris, dirt, trash, rock, sediment, and sand that may accumulate in the storm sewer or other drainage conveyance system and stormwater appurtenances as a result of site developmen 18. The quantity of materials stored on the project site shall be limited, as much as practical, to that quantity required to perform the
- work in an orderly sequence. All materials stored on-site shall be stored in a neat, orderly manner, in their original containers, with original manufacturer's labels. 19. No chemicals are to be used by the contractor, which have the potential to be released in stormwater unless permission for the use of
- a specific chemical is granted in writing by the ECM Administrator. In granting the use of such chemicals, special conditions and monitoring may be required.
- 20. Bulk storage structures for petroleum products and other chemicals shall have adequate protection so as to contain all spills and prevent any spilled material from entering State Waters, including any surface or subsurface storm drainage system or facilities.
- 21. No person shall cause the impediment of stormwater flow in the flow line of the curb and gutter or in the ditchline. 22. Individuals shall comply with the "Colorado Water Quality Control Act" (Title 25, Article 8, CRS), and the "Clean Water Act" (33 USC 1344), in addition to the requirements included in the DCM Volume II and the ECM Appendix I. All appropriate permits must be
- obtained by the contractor prior to construction (NPDES, Floodplain, 404, fugitive dust, etc.). In the event of conflicts between these requirements and laws, rules, or regulations of other Federal, State, or County agencies, the more restrictive laws, rules, or regulations
- 23. All construction traffic must enter/exit the site at approved construction access points. 24. Prior to actual construction the permitee shall verify the location of existing utilities.
- 25. A water source shall be available on site during earthwork operations and utilized as required to minimize dust from earthwork equipment and wind.
- 26. The soils report for this site has been prepared by CTL Thompson, Inc. and shall be considered a part of these plans. 27. At least ten days prior to the anticipated start of construction, for projects that will disturb 1 acre or more, the owner or operator of
- construction activity shall submit a permit application for stormwater discharge to the Colorado Department of Public Health and Environment, Water Quality Division. The application contains certification of completion of a stormwater management plan (SWMP), of which this grading and erosion control plan may be a part. For information or application materials contact:

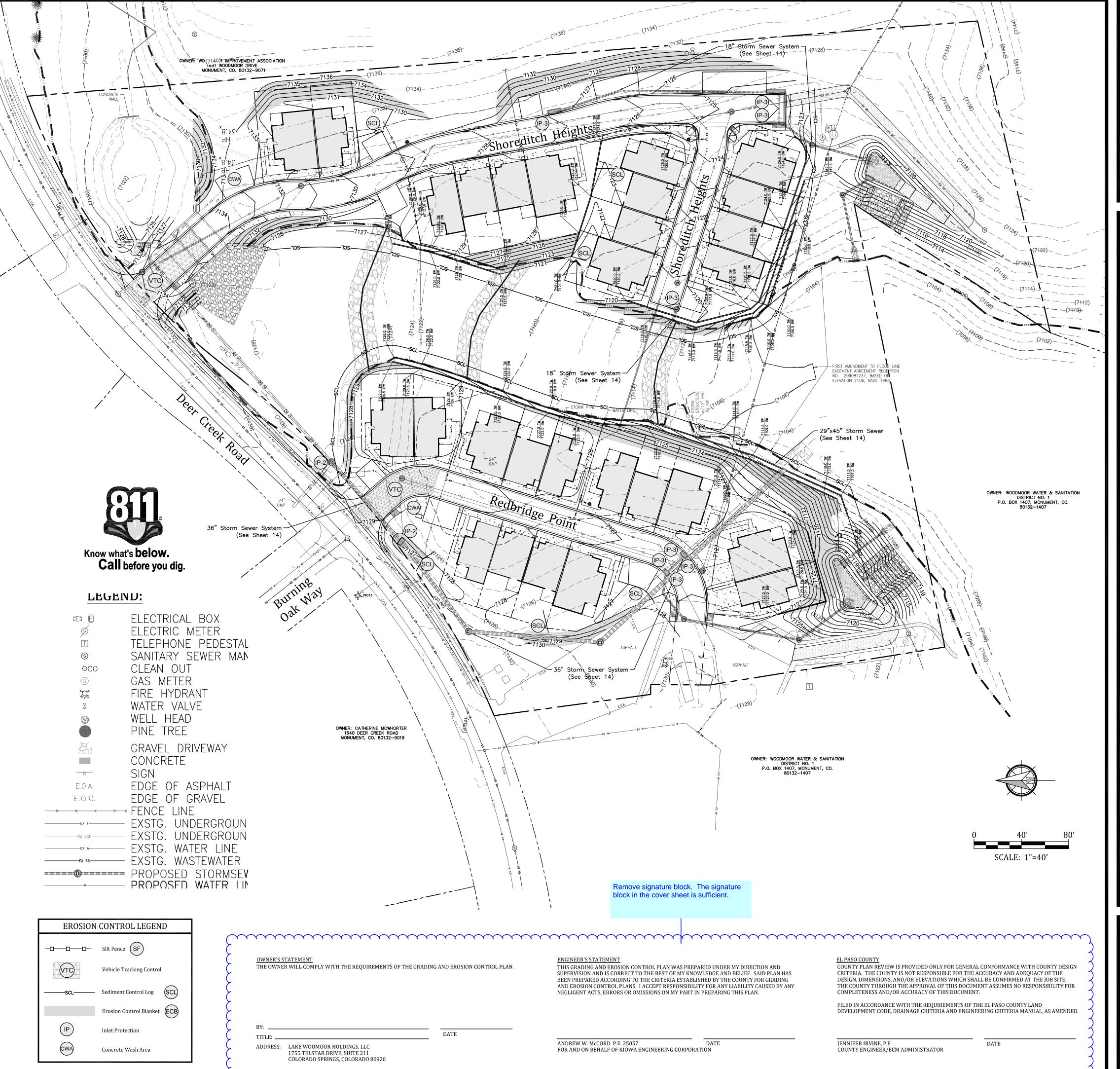
Colorado Department of Public Health and Environment Water Quality Control Division WQCD - Permits 4300 Cherry Creek Drive South Denver, CO 80246-1530 Attn: Permits Unit

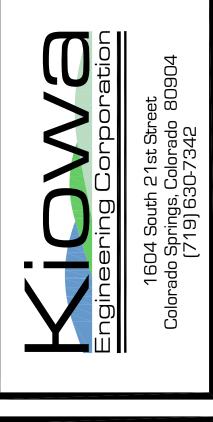
PROJECT SPECIFIC GRADING AND EROSION CONTROL NOTES

- 1. All earthwork required of this construction shall be completed in accordance with all applicable sections of the Project Specifications and Soil Investigation Report (Geotechnical Report).
- 2. Rubbish including timber, concrete rubble, trees, brush, and asphalt shall not be backfilled adjacent to any of the structures or be in the placement of any unclassified fill. The Contractor shall be responsible for the removal and hauling of such materials to a suitable spoil area. Costs associated with the removal of such materials shall be paid for as documented in the Project Specifications.
- 3. Excess excavation shall become the property of the Contractor and shall be disposed of at the Contractor's expense. The cost of haulage and spoiling of excess excavated materials shall be paid for as documented in the Project Specifications. 4. Water shall be used as a dust palliative as required and shall be included in the cost for earthwork item(s). No separate payment
- will be made for dust control associated with the site construction.
- 5. The road grades shall be cleared of vegetation and the topsoil stockpiled for later use. 6. All grading shall be in conformance with the Geotechnical Report for the area.
- 7. Placement of fill for roadway embankments shall be completed in conformance with the Geotechnical Report. 8. Grading contours shown on this plan are to final grade.
- 9. Compaction under filled areas, including roadway and detention basin embankments, shall be 95 percent of the maximum Standard Proctor Density (ASTM D698) at two (2) percent of optimum moisture content. 10. No rubble or debris shall be placed in the backfill under any of the proposed buildings, streets, curb & gutter, sidewalk and drainage structures or within five (5) feet of a building footprint. Properly graded rubble may be used in some locations as specified and
- 11. Contractor is responsible for reviewing the site prior to bidding to verify site conditions. 12. Contractor is responsible for providing erosion control measures as approved by the El Paso County DSD Engineering Division and
- as may be required by the El Paso County Inspector. 13. All slopes equal to or greater than 3:1 shall require anchored soil retention blanket (SRB), Geocoir 700 or equal.
- 14. The Developer is responsible for maintaining erosion control measures until a mature stage of vegetation is established. 15. All soils used for fill must be approved by a representative of the Geotechnical Engineer.
- 16. All natural ground to receive fill must be properly scarified, watered and compacted prior to placing fill.
- 17. The Contractor is solely responsible for the design, maintenance and operation of any required dewatering system. The Contractor shall perform such independent investigation as he deems necessary to satisfy himself as to the subsurface groundwater conditions and unstable soil conditions to be encountered throughout the construction. Contractor shall coordinate the dewatering system with El Paso County when associated with public facilities.
- 18. No fill shall be placed, spread or rolled while it is frozen, thawing or during unfavorable weather conditions. When the work is interrupted by heavy rain, fill operations shall not be resumed until a representative of the Geotechnical Engineer indicates that the moisture content and density of the previously placed fill are as specified. Fill surfaces may be scarified and recompacted after rainfall if necessary, to obtain proper moisture density relation.
- 19. Additional erosion control structures and/or grading may be required at the time of construction.
- 20. Sediment removal for erosion control facilities shall be performed continuously for proper function. 21. Base mapping was provided by Rampart Surveys, Inc.
- 22. Proposed Construction Schedule: Begin Construction: Winter 2016

verified by the Geotechnical Engineer.

- End Construction: Winter 2017 Total Site Area = 7.23 Acres
- 23. Area to be disturbed = 4.6 Acres (est.)
 - Existing 100-year runoff coefficient = 0.53 Proposed 100-year runoff coefficient = 0.57
- Existing Hydrological Soil Group: B & D (Pring course sandy loam, and Alamosa loam)
- 24. Site is currently undeveloped and covered with native grasses on gentle slopes (2%-8%).
- 25. Site is located in the Dirty Women Creek Drainage Basin.





Project No.: 15073 Date: December 1, 2017 Design: NRK Drawn: CAD Check: AWMc

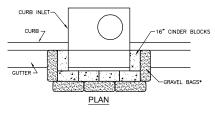
INSTALLATION REQUIREMENTS

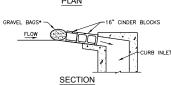
INLET PROTECTION SHALL BE INSTALLED
IMMEDIATELY AFTER CONSTRUCTION OF INLET.
2. BAGS ARE TO BE MADE OF 1/4" WIRE MESH
(USED WITH GRAVEL ONLY) OR GEOTEXTILE.
3. WASHED SAND OR GRAVEL 3/4 INCH TO SOCK
1 NO LES IN DIAMETER IS FLACED INSIDE THE SOCK
4. FLACEMENT OF THE SOCK TO BE 30 DEGREES FROM
PER BOUNDED OF THE SOCK STORE OF THE SOCK
2. AT LEAST 2 CURB SOCKS IN SERIES IS REDUIRED.

MAINTENANCE REQUIREMENTS

CONTRACTOR SHALL INSPECT INLET PROTECTION IMMEDIATELY AFTER EACH RAINFALL, AT LEAST DAILY DURING PROLONGED RAINFALL AND WEEKLY DURING PERIODS OF NO RAINFALL.
 DAMAGED OR INSPECTIVE INLET PROTECTION SHALL PROMPHLY BE REPAIRED OR REPLACED.
 SEDIMENT SHALL BE REMOVED WHEN GUTTER WIDTH IS FILLED.
 INLET PROTECTION SHALL BE REMOVED WHEN OUTDER WIDTH IS FILLED.
 INLET PROTECTION SHALL BE REMOVED WHEN ADEQUATE VEGETATIVE COVER. IS ATTAINED WITHIN THE DRAINAGE AREA AS APPROVED BY THE COUNTY.

CURB SOCK INLET PROTECTION (P-4)





INSTALLATION REQUIREMENTS
I NUEL PROTECTION SHALL BE INSTALLED IMMEDIATELY AFTER
CONSTRUCTION OF INLEY
CONCRETE BLOCKS ARE TO BE LAID AROUND THE INLET IN A
SINGLE ROW ON THEIR SIDES, ABUTTING ONE ANOTHER WITH
THE OPEN BODS OF THE BLOCK FACING OUTWARD.
3. GRAVEL BAGS ARE TO BE PLACED AROUND THE CONCRETE
BLOCKS CLOSELY ABUTTING ONE ANOTHER SO THERE ARE NO CAPS.

4. GRAVEL BAGS ARE TO CONTAIN WASHED SAND OR GRAVEL APPROXIMATELY 3/4" IN DIAMETER.

5. BAGS ARE TO BE MADE OF 1/4" WIRE MESH (USED WITH GRAVEL ONLY) OR GEOTEXTILE.

MAINTENANCE REQUIREMENTS

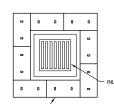
1. CONTRACTOR SHALL INSPECT INLET PROTECTION IMMEDIATELY
AFTER EACH RAINFALL, AT LEAST DAILY DURING PROLONGED
RAINFALL, AND WEEKLY DURING PERIODS OF NO RAINFALL.

2. DAMAGED OR INEFFECTIVE INLET PROTECTION SHALL
PROMPTLY BE REPAIRED OR REPLACED.

3. SEDIMENT SHALL BE REMOVED WHEN SEDIMENT HAS

*NOTE: AN ALTERNATE 3/4" TO 1" GRAVEL FILTER OVER A WIRE SCREEN MAY BE USED IN PLACE OF GRAVEL BASS. THE WIRE MESH SHALL EXTEND ABOVE THE TOP OF THE CONCRETE BLOCKS AND THE GRAVEL PLACED OVER THE WIRE SCREEN TO THE TOP OF THE CONCRETE BLOCKS.

BLOCK AND GRAVEL BAG INLET PROTECTION (IP-3) NTS



STRAW BALE -

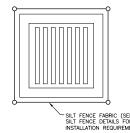
INSTALLATION REQUIREMENTS

1. INLET PROTECTION SHALL BE INSTALLED IMMEDIATELY AFTER
CONSTRUCTION OF INLET.
2. BALES ARE TO BE PLACED IN A SINGLE ROW AROUND THE INLET
WITH THE END OF THE BALES TIGHTLY ABUTTING ONE ANOTHER.
3. SEE STRAW BALE BARRIER DETAILS AND NOTES FOR INSTALLATION
REQUIREMENTS.

MAINTENANCE REQUIREMENTS

1. CONTRACTOR SHALL INSPECT STRAW BALE INLET PROTECTION IMMEDIATELY AFTER EACH RANNFALL, AT LEAST DAILY DURING PROLONGED RAINFALL, AND WEEKLY DURING PEROODS OF NO RAINFALL AND WEEKLY DURING PEROODS OF NO RAINFALL RAINFALL, AND WEEKLY DURING PEROODS OF NO RAINFALL RAINFALL REPORT SHALL REPORT OF THE REPORT OF NOR SHALL REPORT OF THE REPORT

STRAW BALE INLET PROTECTION (P-2)



INSTALLATION REQUIREMENTS

1. INLET PROTECTION SHALL BE INSTALLED IMMEDIATELY AFTER ONSTRUCTION OF INLET.

SEE SILT FENCE DETAILS AND NOTES FOR INSTALLATION AROUND THE EDGES AT A MAXIMUM SPACING OF 3 FEET.

MAINTENANCE REQUIREMENTS

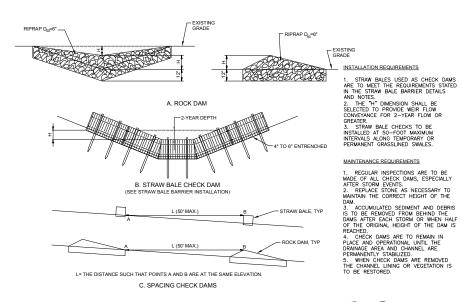
1. CONTRACTOR SHALL INSPECT STRAW BALE INLET PROTECTION IMMEDIATELY AFTER EACH RAINFALL, AT LEAST DAILY DURING PROLONGED RAINFALL, AND WEEKLY DURING PERIODS OF NO RAINFALL 2. DAMAGED, COLLAPSED, UNENTERCHED OR INEFFECTIVE INLET PROTECTION SHALL BE PROMPTLY REPAIRED OR REPLACED.

3. SEDIMENT SHALL BE REMOVED FROM BEHIND FILTER FABRIC WHEN IT ACCUMULATES TO HALF THE EXPOSED GEOTEXTILE HEIGHT.

4. FILTER FABRIC PROTECTION SHALL BE REMOVED WHEN ADEQUATE VEGETATIVE COVER IS ATTAINED IN THE DRAINAGE AREA AS APPROVED BY THE COUNTY.

FILTER FABRIC INLET PROTECTION (IP-1)





CHECK DAM NTS





STRAW BALES USED AS CHECK DAMS E TO MEET THE REQUIREMENTS STATED THE STRAW BALE BARRIER DETAILS

INSTALLATION REQUIREMENTS

INSTALLATION REQUIREMENTS

1. STRAW BALE BARRIERS SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.

2. BALES SHALL CONSIST OF APPROXIMATELY 5 CUBIC FEET OF CERTIFIED WEED FREE HAY OR STRAW AND WEIGH NOT LESS THAN 35 POUNDS.

3. DEALES SHALL SHAME OF A SINGLE ROW WITH THE RND OF THE BALES SHAME IS TO BE SCURELY ANAPORED WITH A TLEAST TWO STAKES AND THE RIRST STAKE IS TO BE DRIVEN TOWARD THE PREVIOUSLY LAID BALE TO FORCE THE BALES TOGETHER.

5. STAKES ARE TO BE A MINIMUM OF 42 INCHES LONG. METAL STAKES SHALL BE STANDARD "TO R" "U" TYPE WITH MINIMUM WEIGHT OF 1.33 POUNDS PER LINEAR FOOT. WOOD STAKES SHALL HAVE A MINIMUM BAHETER OR CROSS SECTION DIMENSION OF 2 INCHES.

6. BALES ARE TO BE BOUND WITH EITHER WIRE OR STRING AND ORIENTED SUCH THAT THE BINDINGS ARE AROUND THE SIDES AND NOT ALONG THE TOPS AND BOTTOMS OF THE BALE.

7. GAPS BETWEEN BALES ARE TO BE CHINKED (FILLED BY WEDGING) WITH STRAW

BOTTOMS OF THE BALE.
7. CAPS BETWEEN BALES ARE TO BE CHINKED (FILLED BY WEDGING) WITH STRAW OR THE SAME MATERIAL OF THE BALE.
8. END BALES ARE TO EXTEND UPSLOPE SO THE TRAPPED RUNOFF CANNOT FLOW AROUND THE ENDS OF THE BARRIER.

MAINTENANCE REQUIREMENTS

1. CONTRACTOR SHALL INSPECT STRAW BALE BARRIERS IMMEDIATELY AFTER EACH RAINFALL, AT LEAST DAILY DURING PROLONGED RAINFALL, AND WEEKLY DURING PERIODS NO RAINFALL.

2. DAMAGED OR INEFFECTIVE BARRIERS SHALL PROMPTLY BE REPAIRED, REPLACING BALES IF NECESSARY, AND UNENTRENCHED BALES NEED TO BE REPAIRED WITH COMPACTED BACKFILL MATERIAL.

3. SEDIMENT SHALL BE REMOVED FROM BEHIND STRAW BALE BARRIERS WHEN IT ACCUMULATES TO APPROXIMATELY 1/2 THE HEIGHT OF THE BARRIERS.

4. STRAW BALE BARRIERS SHALL BE REMOVED WHEN ADEQUATE VEGETATIVE COVER IS ATTAINED SA APPROVED BY THE COUNTY.

STRAW BALE BARRIER

€FLOW



INSTALLATION REQUIREMENTS 1. SILT FENCES SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES AT THE LOCATIONS INSTALLATION REQUIREMENTS 1. SILT FENCES SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES AT THE LOCATIONS 1. SHOWN ON THE GRADING AND EROSION CONTROL PLAN (GEC). 2. WHEN JOHNS ARE WECSSARY, SILT FENCE GEOTEXTHE SHALL BE SPLICED TOGETHER ONLY AT 2. WHEN JOHNS ARE WECSSARY, SILT FENCE GEOTEXTHE SHALL BE SPLICED TOGETHER ONLY AT 3. METAL POSTS SHALL BE "STUDDED TEE" OR "U" TYPE WITH MINIMUM WEIGHT OF 1.33 POUNDS PER LINEAR FOOT WOOD POSTS SHALL HAVE A MINIMUM DIAMETER OR CROSS SECTION DIMENSION OF 2 INCHES. 4. THE FILTER MATERIAL SHALL BE FASTENED SECURELY TO METAL OR WOOD POSTS USING WIRE TIES, OR TO WOOD POSTS WITH 3/4" LONG #9 HEAVY—DUTY STAPLES. THE SILT FENCE GEOTEXTHE SHALL NOT BE STAPLED TO EXISTING TREES. 5. WHILE NOT REQUIRED, WIRE MESH FENCE MAY BE USED TO SUPPORT THE GEOTEXTHE. WIRE FENCE SHALL BE FASTENED SECURELY TO THE UPSION SED OF THE POSTS USING HEAVY—DUTY WITE FENCE SHALL BE FASTENED SECURELY TO THE UPSION OF SECURE THE ORIGINAL GROUND SUFFACE. 6. ALONG THE TOE OF FILLS, INSTALL THE SILT FENCE ALONG A LEVEL CONTOUR AND PROVIDE AN AREA BEHIND THE FENCE FOR RUMORF TO POND AND SEDIMENT TO SETTLE. A MINIMUM DISTANCE OF 5 FEET FROM THE TOE OF FILLS, INSTALL THE SILT FENCE ALONG A LEVEL CONTOUR AND PROVIDE AN AREA BEHIND THE FENCE FOR RUMORF TO POND AND SEDIMENT TO SETTLE. A MINIMUM DISTANCE OF 5 FEET FROM THE TOE OF FILE FILL IS RECOMENDED. 7. THE HEIGHT OF THE SILT FENCE FROM THE GROUND SURFACE SHALL BE MINIMUM OF 24 INCHES AND SHALL NOT EXCEED 30 INCHES; HIGHER FENCES MAY IMPOUND VOLUMES OF WATER SUFFICIENT TO CAUSE FAILURE OF THE STRUCTURE.

MAINTENANCE REQUIREMENTS

I CONTRACTOR SHALL INSPECT SILT FENCES IMMEDIATELY AFTER EACH RAINFALL, AT LEAST DAILY DURING PROLONGED RAINFALL, AND WEEKLY DURING PERIODS OF NO RAINFALL DAMAGED, COLLAPSED, UNENTRENCHED OR REPETCITY SILT FENCES SHALL BE PROMPTLY REPRIMED OR REPLACED.

2. SEDIMENT SHALL BE REMOVED FROM BEHIND SILT FENCE WHEN IT ACCUMULATES TO HALF THE EXPOSED GEOTEXTILE HEIGHT. AFFORD GEVIENTILE MEIGHT. 5. SILT FENCES SHALL BE REMOVED WHEN ADEQUATE VEGETATIVE COVER IS ATTAINED AS APPROVED BY

SILT FENCE DETAIL _0__0__0__

INSTALLATION REQUIREMENTS:

1. TEMPORARY SOIL BERMS SHALL BE GRADED ALONG BOTH SIDES OF A ROUGH CUT STREET TO DIVERT SEDIMENT-LADEN RUNOFF & SLOW THE VELOCITY OF STORM RUNOFF.

2. ALTERNATE MATERIALS SUCH AS CURB SOCKS OR SILT FENCES MAY BE USED WHERE LARGE FLOWS ARE NOT EXPECTED.

3 REQUIREMENTS FOR AND SPACING OF

MAINTENANCE REQUIREMENTS

CONTRACTOR SHALL INSPECT BERMS AFTER
EACH RAINFALL, AT LEAST DAILY DURING
PROLONGED RAINFALL, AND WEEKLY DURING
PERIODS OF NO RAINFALL.

2. BERMS SHALL BE ROUTINELY CLEARED OF ANY DEBRIS OR ACCUMULATION OF SEDIMENT.

3. ERODED BERMS SHALL IMMEDIATELY BE REPAIRED.

4. TEMPORARY BERMS SHALL REMAIN OPERATIONAL AND PROPERLY MAINTAINED UNTIL THE SITE AREA IS PERMANENTLY STABILIZED WITH ADEQUATE VEGETATIVE COVER AND/OR OTHER PERMANENT STRUCTURE AS APPROVED BY THE COUNTY.



ROUGH-CUT STREET CONTROL RCS FOR STREET SLOPES > 4%

COMPACTED EARTH BERM-

FI EVATION

BERM (TYP.)

W=75% ROADBED WIDTH



A SEDIMENT FILTER OR AN EXCAVATED IMPOUNDING AREA AROUND A STORM DRAIN CULVERT INLET.

TO PREVENT SEDIMENT FROM ENTERING STORM DRAINAGE SYSTEMS PRIOR TO PERMANENT STABILIZATION OF THE DISTURBED AREA.

200' MAX: (SEE MAINTENANCE NOTE #2)

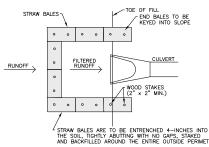
PLAN

CROSS SECTION

12" TO 18"-

SECTION

3:1 OR FLATTER



MAINTENANCE REQUIREMENTS

1. CONTRACTOR SHALL INSPECT STRAW BALE INLET PROTECTION IMMEDIATELY AFTER EACH RAINFALL, AND WEEKLY DURING PROLONGED RAINFALL, AND WEEKLY DURING PERIODS OF NO RAINFALL.

2. DAMAGED OR INSPECTIVE INLET PROTECTION SHALL PROMPTLY BE REPARRED OF NORTHANDERS OF THE PROMPTLY BE REPAIRED BALES NEEDED BY NEEDESSAY AND OWNERHOUSE BALES NEEDED BY NEEDESSAY AND OWNERHOUSE BALES NEEDED BY NEEDESSAY AND OWNERHOUSE PROMPT BEHIND STRAW BALES WHEN IT ACCUMULATES TO APPROXIMATELY 1/3 THE HEIGHT OF THE BARRIER.

4. INLET PROTECTION SHALL BE REMOVED WHEN ADEQUATE VEGETATIVE COVER IS ATTAINED WITHIN THE DRAINAGE AREA AS APPROVED BY THE COUNTY.

INSTALLATION, REQUIREMENTS

I NIMET PROTOCTION SHALL BE INSTALLED IMMEDIATELY
AFTER CONSTRUCTION OF MILET.

2. BALES ARE TO BE PLACED IN A SINGLE ROW
AROUND THE INLET WITH THE END OF THE BALES
TIGHTLY ABUTING ONE ANOTHER.

3. SEE STRAW BALE BARRIER DETAILS AND NOTES FOR
INSTALLATION REQUIREMENTS.

CULVERT INLET PROTECTION



NOTE:

DETAILS SHOWN MAY NOT BE REQUIRED FOR THIS PROJECT. REFER TO GRADING AND EROSION CONTROL PLAN. ANY CHANGES SHALL BE COORDINATED WITH EL PASO COUNTY ENGINEERING DIVISION INSPECTIONS

Woodmo Lake at B orth

Control] Grading and Erosion County, Colorado Final G

Plan

roject No.: 15073 Date: December 1, 2017 Design: NRK Drawn: CAD Check: AWMc

INSTALLATION REQUIREMENTS

- THE SLOPE DRAIN IS TO BE DESIGNED TO CONVEY
 THE PEAK RUNOFF FOR THE 2-YEAR STORM.
 PIPE MATERIAL MAY INCLUDE CORRUGATED METAL,
 OR RIGID OR FEXIBLE PLASTIC.
 BEMBANKMENT MATERIAL SHALL CONSIST OF SOIL
- WITH A MINIMUM OF 15% PASSING A #200 SIEVE. EXCAVATED SOIL CAN BE USED IF IT MEETS THIS REQUIREMENT.

 4. EMBANKMENT IS TO BE COMPACTED TO AT LEAST
 90% OF MAXIMUM DENSITY AND WITHIN 2% OF OPTIMUM
 MOISTURE CONTENT ACCORDING TO ASTM D 698.

 5. SLOPE DRAIN SECTIONS ARE TO BE SECURELY
 FASTENED TOGETHER AND HAVE WATERTIGHT
- FITTINGS.

 6. THE OUTLET IS TO BE STABILIZED AND, UNLESS THE DRAIN DISCHARGES DIRECTLY TO A SEDIMENT BASIN, A TEMPORARY SURFACE IS TO BE PROVIDED TO CONVEY FLOWS DOWNSTREAM.)NVEY FLOWS DOWNSTREAM.

 IMMEDIATELY STABILIZE ALL AREAS DISTURBED BY
 STAILATION OR REMOVAL OF THE PIPE SLOPE DRAIN.

MAINTENANCE REQUIREMENTS

- MAINTENANCE REQUIREMENTS

 1. INLET AND OUTLET POINTS ARE TO BE CHECKED

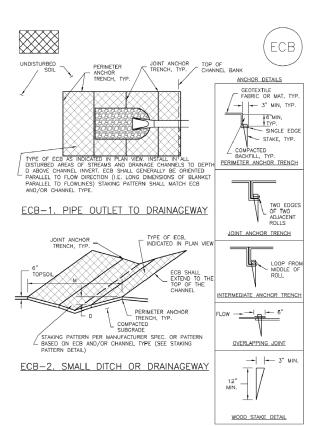
 1. REQUIABLY, AND AFTER HEAVY STORMS FOR
 CLOGGING AND DAYA PARE HEAVY STORMS FOR
 CLOGGING AND DAYA PARE HEAVY STORMS FOR
 CLOGGING AND DAYA PARE HEAVY STORMS FOR
 LIFE PIER ARE TO BE PROMPTLY PEPARED, AND
 THE PIER ARE TO TO BE WAS SOR UNDERCUT THE
 UNET OR PIPE: IF THESE PROBLEMS DO EXIST.
 THE HEADWALL NEEDS TO BE REMFORCED WITH
 COMPACT EARTH OR SANDBASS.
 3. THE OUTLET POINT IS TO BE FREE OF EROSION,
 AND, IF NECSBAY, ADDITIONAL OUTLET
 PROTECTION SHOULD BE INSTALLED.
 4. CONSTRUCTION TRAFFICIS NOT TO CROSS THE
 SLOPE DRAIN AND MATERIALS ARE NOT TO BE
 PLACED ON IT.
 5. THE SLOPE DRAIN IS TO REMAIN IN PLACE UNTIL
 THE SLOPE HAS BEEN COMPLETELY STABLIZED
 OR UP TO 30 DAYS AFTER PERMANENT SLOPE
 STABLIZEDORS

TEMPORARY SLOPE DRAIN



EROSION CONTROL BLANKET INSTALLATION NOTES

- 1. SEE PLAN VIEW FOR:
 - -TYPE OF ECB (STRAW, STRAW-COCONUT, COCONUT, OR EXCELSIOR). -AREA, A, IN SQUARE YARDS OF EACH TYPE OF ECB.
- 2. 100% NATURAL AND BIODEGRADABLE MATERIALS ARE PREFERRED FOR RECPS, ALTHOUGH SOME JURISDICTIONS MAY ALLOW OTHER MATERIALS IN SOME APPLICATIONS.
- 4. PERIMETER ANCHOR TRENCH SHALL BE USED ALONG THE OUTSIDE PERIMETER OF ALL BLANKET AREAS.
- 5. JOINT ANCHOR TRENCH SHALL BE USED TO JOIN ROLLS OF ECBs TOGETHER (LONGITUDINALLY AND TRANSVERSELY) FOR ALL ECBs EXCEPT STRAW WHICH MAY USE AN OVERLAPPING JOINT.
- 6. INTERMEDIATE ANCHOR TRENCH SHALL BE USED AT SPACING OF ONE-HALF ROLL LENGTH FOR COCONUT AND EXCELSIOR ECBs.
- 7. OVERLAPPING JOINT DETAIL SHALL BE USED TO JOIN ROLLS OF ECBs TOGETHER FOR ECBs ON SLOPES.
- 8. MATERIAL SPECIFICATIONS OF ECBs SHALL CONFORM TO TABLE ECB-1.
- 9. ANY AREAS OF SEEDING AND MULCHING DISTURBED IN THE PROCESS OF INSTALLING ECBS SHALL BE RESEEDED AND MULCHED.
- 10. DETAILS ON DESIGN PLANS FOR MAJOR DRAINAGEWAY STABILIZATION WILL GOVERN IF DIFFERENT FROM THOSE SHOWN HERE.



т	ABLE ECB-1.	ECB MATERIA	AL SPECIFICAT	IONS			
TYPE	COCONUT CONTENT	STRAW CONTENT	EXCELSIOR CONTENT	RECOMMENDI NETTING**			
STRAW*	-	100%	-	DOUBLE/ NATURAL			
STRAW- COCONUT	30% MIN	70% MAX	-	DOUBLE/ NATURAL			
COCONUT	100%	-	-	DOUBLE/ NATURAL			
EXCELSIOR	-	-	100%	DOUBLE/ NATURAL			
*STRAW ECB: MAY ONLY BE USED OUTSIDE OF STREAMS AND DRAINAGE CHANNEL. **ALTERNATE NETTING MAY BE ACCEPTABLE IN SOME JURISDICTIONS							

EROSION CONTROL BLANKET MAINTENANCE NOTES

INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION.
MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS 500N AS
POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE
EROSION, AND PERFORM NECESSARY MAINTENANCE.

2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs in effective operating condition. Inspections and corrective measures should be documented thoroughly.

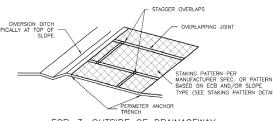
3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.

4. ECBs SHALL BE LEFT IN PLACE TO EVENTUALLY BIODEGRADE, UNLESS REQUESTED TO BE REMOVED BY THE LOCAL JURISDICTION.

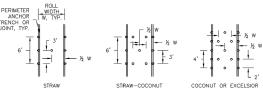
5. ANY ECB PULLED OUT, TORN, OR OTHERWISE DAMAGED SHALL BE REPAIRED OR REINSTALLED. ANY SUBGRADE AREAS BELOW THE GEOTEXTILE THAT HAVE ERODED TO CREATED A VOID UNDER THE BLANKET, OR THAT REMAIN DEVOID OF GRASS SHALL BE REPAIRED, RESEEDED AND MULCHED AND THE ECB REINSTALLED.

NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFOD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

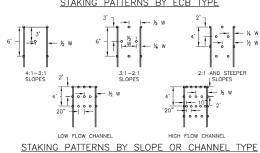
(DETAILS ADAPTED FROM DOUGLAS COUNTY, COLORADO AND TOWN OF PARKER COLORADO, NOT AVAILABLE IN AUTOCAD)



ECB-3. OUTSIDE OF DRAINAGEWAY

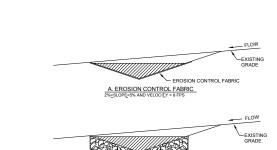


STAKING PATTERNS BY ECB TYPE



EROSION CONTROL BLANKET





SWALE LINING SLA SLB

A. EXCAVATED SWALE

B. SWALE FORMED BY BERM

C. SWALE FORMED BY CUT AND FILL

B. RIPRAP SLOPE>5% OR VELOCITY >8 FPS



- REFER TO THE MANUFACTURER'S INSTALLATION SPECIFICATIONS FOR PROPER INSTALLATION OF EROSION CONTROL FABRIC LINING.
- VELOCITIES FOR EROSION CONTROL FABRICS
 SHALL NOT EXCEED 8 FPS. SWALES WITH VELOCITIES
 GREATER THAN 8 FPS SHALL BE LINED WITH RIP RAP.

MAINTENANCE REQUIREMENTS

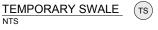
- CONTRACTOR SHALL INSPECT SWALE LININGS
 AFTER EACH RAINFALL, AT LEAST DAILY DURING
 PROLONGED RAINFALL AND WEEKLY DURING PERIODS
 OF NO RAINFALL.
- 2. DAMAGED LININGS SHALL IMMEDIATELY BE REPAIRED.
- 3. REFER TO THE EROSION CONTROL BLANKETS FACTSHEET FOR PROPER MAINTENANCE.
- 4. DISPLACED RIPRAP OR COARSE AGGREGATE IS TO BE REPLACED AS SOON AS POSSIBLE.

MAINTENANCE REQUIREMENTS

- CONTRACTOR SHALL INSPECT SWALES AFTER EACH RAINFALL, AT LEAST DAILY DURING PROLONGED RAINFALL, AND WEEKLY DURING PER
- 4. TEMPORARY SWALES SHALL REMAIN OPERATIONAL AND PROPERLY MAINTAINED UNTIL THE SITE AREA IS PERMANENTLY STABILIZED WITH ADEQUATE VEGETATIVE COVER ADJORO OTHER PERMANENT STRUCTURE AS APPROVED BY THE COUNTY.

INSTALLATION REQUIREMENTS

- 1. TEMPORARY SWALES SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.
- 3. EMBANKMENT MATERIAL SHALL CONSIST OF SOIL WITH A MINIMUM OF 15% PASSING A #200 SIEVE EXCAVATED SOIL CAN BE USED IF IT MEETS THIS REQUIREMENT.
- 5. SWALES WITH SLOPE > 2% SHALL BE LINED, SEE FIGURE TSW-3.
- 6. SWALES ARE TO DRAIN INTO A SEDIMENT BASIN OR OTHER STABILIZED OUTLET.
- 7. Z SHALL BE 3 OR GREATER.



DETAILS SHOWN MAY NOT BE REQUIRED FOR THIS PROJECT. REFER TO GRADING AND EROSION CONTROL PLAN. ANY CHANGES SHALL BE COORDINATED WITH EL PASO COUNTY ENGINEERING DIVISION INSPECTIONS

Woodmoo Lake at Bay orth

Plan

Control]

d Erosion (

| Grading and | o County, Colorad

Final C

Date: December 1, 2017 Design: NRK Drawn: CAD Check: AWMc

INSTALLATION REQUIREMENTS

- INSTALLATION REQUIRMENTS

 1. SEE GEE FOR DETAIL OF DIVERSION DITCH.
 TYPE OF DITCH (UNLINED, ECB LINED, PLASTIC LINED OR RIPRAP LINED).
 LEINGTH OF EACH TYPE OF DITCH.
 LEINGTH OF EACH TYPE OF DITCH.
 DEPTH, "DY, AND WIGHT, W"DIMENSIONS.
 FOR ECB LINED DITCH, EROSION CONTROL BLANKET TYPE (SEE ECB DETAIL).
 FOR RIPRAP LINED DITCH, SIZE OR RIPRAP, "Dis".

 2. SEE DRAINAGE PLANS FOR DETAILS OF ANY PERIMANENT CONVEYANCE FACILITIES OR DIVERSION DITCHES EXCEEDING A 2-YEAR FLOW RATE OF 10 CFS.

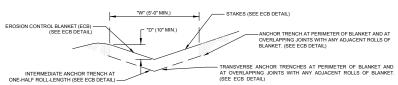
 3. DIVERSION DITCHES INDICATED ON INITIAL SWIMP PLAN SHALL BE INSTALLED PRICAT TO ANY LAND-DISTURBING ACTIVITIES.
 4. FOR ECB LINED DITCHES, INSTALLATION OF EROSION CONTROL BLANKET SHALL CONFORM TO THE REQUIREMENTS OF THE ECB DETAIL.
 5. IN LOCATIONS WHERE CONSTRUCTION TRAFFIC MUST CROSS A DIVERSION DITCH, THE PERMITTEES SHALL INSTALL A TEMPORARY CULVERT WITH A MINIMUM DIAMETER OF 12-INCHES.

MAINTENANCE REQUIREMENTS

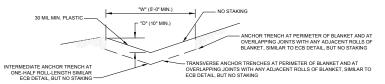
 THE SWMP MANAGER SHALL INSPECT DIVERSION DITCHES WEEKLY AND DURING AND AFTER ANY STORM. MAKE REPAIRS AS NECESSARY. 2. DIVERSION DITCHES ARE TO REMAIN IN PLACE UNTIL THE END OF CONSTRUCTION, OR IF APPROVED BY LOCAL JURISDICTION MAY BE LEFT IN PLACE.

3. IF DIVERSION DITCHES ARE REMOVED, DISTURBED AREA SHALL BE COVERED WITH TOPSOIL, DRILL SEEDEN HAY CRIMPED MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY LOCAL JURISDICTION.

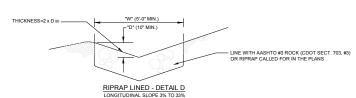




EROSION CONTROL BLANKET (ECB) LINED - DETAIL B

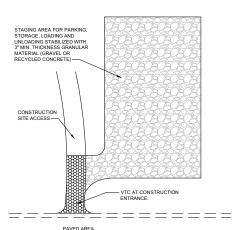


PLASTIC LINED - DETAIL C



TEMPORARY DIVERSION DIKE





PLAN

INSTALLATION REQUIREMENTS

SEE GEC FOR GENERAL LOCATION OF STAGING AREA. CONTRACTOR MAY MODIFY LOCATION AND SIZE OF STABILIZED STAGING AREA WITH

MAY MODIFY LOCATION AND SIZE OF STABILIZED STAGING ANLA WITH COUNTY AFPROVAL.

2. STABILIZED STAGING APEA SHALL BE LARCE ENDUGH TO FULLY CONTINN PARKING, STORAGE, AND UNLOADING AND LOADING OPERATIONS.

3. IF REQUIRED BY THE COUNTY, SITE ACCESS ROADS SHALL BE STABILIZED IN THE SAME MANNER AS THE STAGING AREA.

4. STAGING APEA SHALL BE STABILIZED PRIOR TO ANY OTHER OPERATIONS ON THE SITE.

5. THE STABILIZED STAGING AREA SHALL CONSIST OF A MINIMUM OF 3" OF GRANULAR MATERIAL (GRAVEL OR RECYCLED CONCRETE).

MAINTENANCE REQUIREMENTS

I. THE GESC MANAGER SHALL INSPECT THE STABILIZED STAGING AREA WEEKLY, DURING AND AFTER ANY STORM EVENT AND MAKE REPAR'S OR CLEAN OUT UPSTREAM SEDIMENT AS NECESSAH'ICKNESS OF GRANULAR AND AFTER ANY STORM EVENT AND COLORS OF UNDERTING SUBGRAVE BECOMES OF STAGING AND AFT RUTTING OCCURS OR UNDERTING SUBGRAVE SECOMES OF STAGING AND LOADING AND LOADING OPERATIONS.

3. STABILIZED STAGING AREA SHALL BE ENLARGED IF NECESSARY TO CONTAIN PARKING, STORAGE, AND UNLCADING AND LOADING OPERATIONS.

4. ANY ACCUMULATED DIRT OR MUD SHALL BE REMOVED FROM THE STABILIZED STAGING AREA. SHALL BE REMOVED THE STAGING AREA. SHALL BE REMOVED THE STAGING AREA SHALL BE REMOVED THE STAGING AREA SHALL SHALL BE REMOVED ON THE APPROVED BY THE COMMY, USED ON SIE, AND THE AREA TOPSOILED, DRILL SEEDED AND CRIMP MULCHED OR OTHERWISE STABILIZED.

STABILIZED STAGING AREA



CONCRETE WASHOUT AREA

EX. GROUND SURFACE

PLAN VIEW

2'-0" MIN

CONTAIN WAST CONCRETE

SECTION A

INSTALLATION REQUIREMENTS

1. ALL ENTRANCES TO THE CONSTRUCTION SITE ARE TO BE STABILIZED PRIOR TO CONSTRUCTION

ARE TO BE STABILIZED PRIOR TO CONSTRUCTION DEGINNING.

2. CONSTRUCTION ENTRANCES ARE TO BE BUILT WITH AN APRON TO ALLOW FOR TURNING TRAFFIC, BUT SHOULD NOT BE BUILT OVER EXISTING PAVEMENT EXCEPT FOR A SLIGHT OVERLAP.

3. AREAS TO BE STABILIZED ARE TO BE PROPERLY GRADED AND COMPACTED PRIOR TO LATING DOWN GRADED AND COMPACTED PRIOR TO BE TO BE STABILIZED S. CONSTRUCTION PROADS ARE TO BE STABILIZED.

5. CONSTRUCTION PROADS ARE TO BE BUILT TO CONFORM TO SITE GRADES, BUT SHOULD NOT HAVE SIDE SLOPES OR ROAD GRADES THAT ARE EXCESSIVELY STEEP.

MAINTEANNICE REQUIREMENTS

1. REGULAR INSPECTIONS ARE TO BE MADE OF
ALL STABLIZED AREAS, ESPECIALLY AFTER STORM
EVENTS.

2. STONES ARE TO BE REAPPLIED PERIODICALLY
AND WHEN REPAIR IS NECESSARY.

3. SEDIMENT TRACKED ONTO PAVED ROADS IS TO
BE REMOVED DAILY BY SHOVELING OR SWEEPING.
SEDIMENT IS NOT TO BE WASHED DOWN STORM
SEMER DRAINS.

NOT TO BE WASHED DOWN STORM
PLACE, INSPECTED, AND CLEANED IF NECESSARY.

5. OTHER ASSOCIATED SEDIMENT CONTROL
MESSURES ARE TO BE INSPECTED TO ENSURE
GOOD WORKING CONDITION.

75' MIN.

PLAN

SECTION VEHICLE TRACKING CONTROL

9 N N

INSTALLATION REQUIREMENTS

MAINTENANCE REQUIREMENTS

INSTALLATION REQUIREMENTS

1. SEE GES FOR LOCATIONS OF CONCRETE
WASHOUT AREA.
2. THE CONCRETE WASHOUT AREA SHALL BE
INSTALLED PRIOR TO ANY CONCRETE
PLACEMENT SISTS
3. VEHICLE TRACKING CONTROL IS REQUIRED
AT THE ACCESS POINT.
4. SIGNS SHALL BE PLACED AT THE
CONSTRUCTION ENTRANCE, AT THE WASHOUT
AREA AND ELSAWERS AND THE WASHOUT
AREA MAD ELSAWERS AND THE WASHOUT
CONCRETE WASHOUT AREA TO OPERATORS OF
CONCRETE TRUCKS AND PUMP RIGS.
5. EXCAVATED MATERIAL SHALL BE UTILIZED IN
PERIMETER BERM CONSTRUCTION.

THE CONCRETE WASHOUT AREA SHALL BE REPAIRED AND ENLARGED OR CLEANED OUT AS NECESSARY TO MAINTAIN CAPACITY FOR WASTED CONCRETE.

NECESSARY TO MAINTAIN CAPACITY FOR WASTED CONCRETE:
2. AT THE END OF CONSTRUCTION, ALL CONCRETE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF AT AN APPROVED WASTE SITE.
3. WHEN THE CONCRETE WASHOUT AREA IS REMOVED, COVER THE DISTURBED AREA WITH TOPSOLL, DRILL SEED AND CRIMM MULCH OR OTHERWISE STABILIZE IN A MANNER APPROVED BY THE LOCAL JURISDICTION.
4. INSPECT WEEKLY, AND DURING AND AFTER ANY STORM EVENT.

INSTALLATION REQUIREMENTS

1. SEE GEC FOR;

1. SEE GEC FOR;

— LOCATION, LENGTH AND WIDTH OF SEDIMENT TRAP.

SEDIMENT TRAPS INDICATED ON INITIAL GESC PLAN SHALL BE INSTALLED PRIOR TO ANY LAND-DISTURBING ACTIVITIES.

ACTIVITIES.

SHALL BE INSTALLED PRIOR TO ANY LAND-DISTURBING PROME SHALL BE CONSTRUCTED FROM EXCAVATION THE BERM SHALL BE COMPACTED TO 95% OF THE MAXIMUM DENSITY IN ACCORDANCE WITH ASTM DE98.

4. RIPRAP OUTLET SHALL BE CONSTRUCTED WITH D00=12" RIPRAP WITH A MINIMUM OVERFLOW OF 6".

5. THE TOP OF THE EARTHEN BERM SHALL BE A MINIMUM OF 6" HIGHER THAN THE TOP OF THE RIPRAP OUTLET SHAUTED.

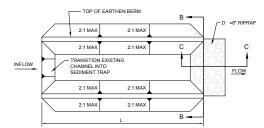
6. THE ENDS OF THE RIPRAP OUTLET STRUCTURE SHALL BE A MINIMUM OF 6" HIGHER THAN THE CENTER OF THE OUTLET STRUCTURE.

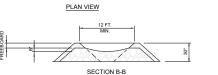
MAINTENANCE REQUIREMENTS

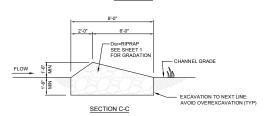
I. THE GESC MANAGER SHALL INSPECT THE SEDIMENT TRAPS WEEKLY, DURING AND AFTER ANY STORM EVENT AND MAKE REPAIRS OR CLEAN OUT UPSTREAM SEDIMENT AS NECESSARY.

2. SEDIMENT ACCUMULATED UPSTREAM OF RIPRAP SHALL BE REMOVED WHEN THE UPSTREAM SEDIMENT DEPTH IS WITHIN HALF THE HEIGHT OF THE RIPRAP OUTLET STRUCTURE.

3. SEDIMENT TRAPS SHALL REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND GRASS OF A WHEN SEDIMENT TRAPS ARE REMOVED THE DISTURBED AREA SHALL BE DRILLED, SEEDED AND CRIMP MULCHED OR STABILIZED IN A MANNER APPROVED BY THE COUNTY.







SEDIMENT TRAP (ST) NTS

3'-0" MAX -6" AT END LOGS ENDS SHALL BE DETAIL A-A

SECTION B-B

INSTALLATION REQUIREMENTS SEE GEC FOR;
 LOCATION, LENGTH AND WIDTH OF SEDIMENT CONTROL LOG.
 SEDIMENT CONTROL LOGS INDICATED ON INITIAL GESC PLAN
SHALL BE INSTALLED PRIOR TO ANY LAND-DISTURBING ACTIVITIES.
 SEDIMENT CONTROL LOGS SHALL CONSIST OF STRAW, COMPOST,
EXCELSIOR, OR COCONUT FIBER.
 NOT FOR USE IN CONCENTRATED AREAS.
 THE SEDIMENT CONTROL LOG SHALL BE TRENCHED INTO THE
GROUND A MINIMUM OF 2."

MAINTENANCE REQUIREMENTS

T. THE GESC MANAGER SHALL INSPECT SEDIMENT CONTROL LOSS DALLY, DURNO AND AFTER ANY STORM EVENT AND MAKE REPAIRS OR CLEAN OUT UPSTREMS SEDIMENT AS NECESSARY.

2. SEDIMENT ACCUMULATED UPSTREAM OF SEDIMENT CONTROL LOGS SHALL BE REMOVED WHEN THE UPSTREAM SEDIMENT CONTROL LOGS SHALL BE REMOVED WHEN THE UPSTREAM SEDIMENT DEPTH IS WITHIN HALF THE HEIGHT OF THE CREST OF LOG.

3. SEDIMENT CONTROL LOSS SHALL BE REMOVED AT THE END OF CONSTRUCTION, IF ANY DISTURBED AREA EXISTS AFTER REMOVAL, IT SHALL BE ORILLED, SEEDED AND CREMP MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE COUNTY.

SEDIMENT CONTROL LOG



NOTE:

DETAILS SHOWN MAY NOT BE REQUIRED FOR THIS PROJECT. REFER TO GRADING AND EROSION CONTROL PLAN. ANY CHANGES SHALL BE COORDINATED WITH EL PASO COUNTY ENGINEERING DIVISION INSPECTIONS

Lake at Bay orth

Control] Grading and Erosion County, Colorado Final G El Paso (

Plan

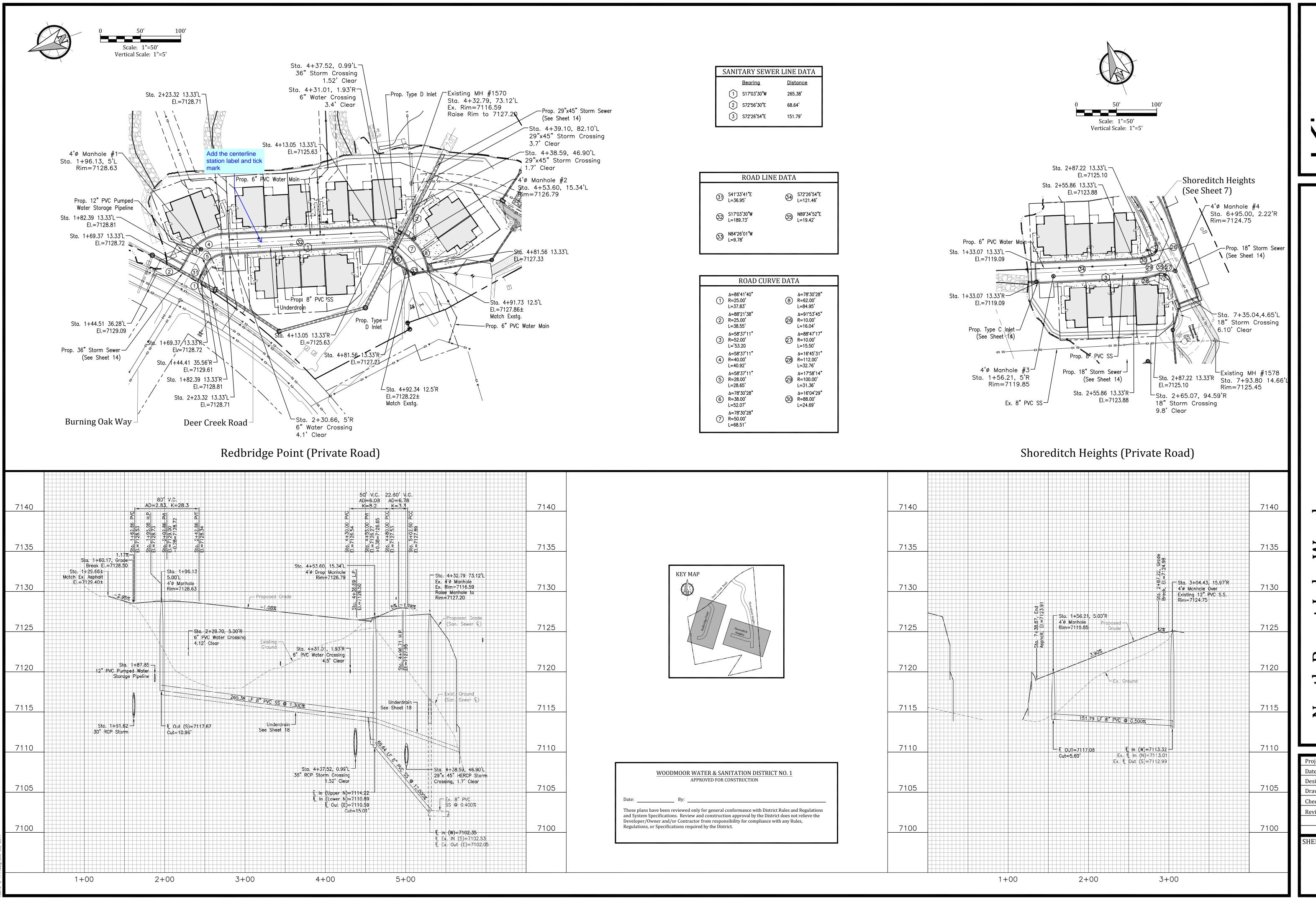


roject No.: 150736 Date: December 1, 2017

Design: NRK

Drawn: CAD Check: AWMc

Woodmoor



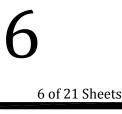


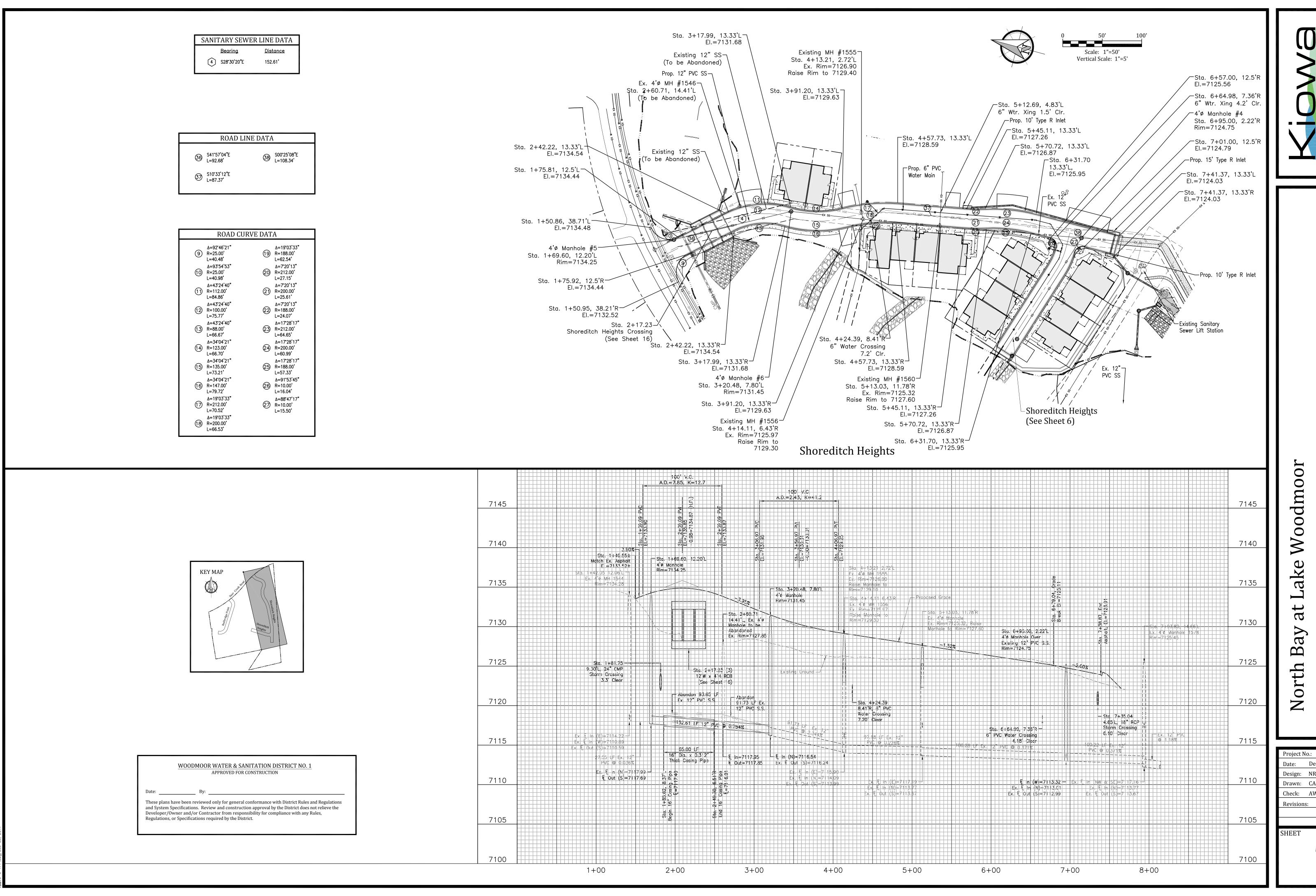
Profile ind Profile 'oodm Plan and s -- Plan an Redbridge Point -Shoreditch Heigh El Paso County, Colora

Heights -- y, Colorado

Project No.: 15073 Date: December 1, 2017 Design: NRK









Heights -- y, Colorado

Project No.: 15073 Date: December 1, 2017 Design: NRK Check: AWMc

North Bay at Lake Woodmoor

EL PASO COUNTY, COLORADO

PUBLIC WATER SYSTEM PLAN AND PROFILES

INCLUDING UTILITY SERVICES

December 1, 2017

GENERAL NOTES:

- All materials and installation procedures will be in compliance with the System Specifications and the Rules and Regulations of the District.
- 2. Developer/Owner or Contractor shall be responsible for determining and obtaining any and all permits required to perform the work from all applicable regulatory agencies or entities having jurisdiction, and will perform the work in accordance with any and all applicable ordinances, regulations, laws and permits issued by such entities or
- Contractor shall pothole and field verify elevations, pipe size, type, alignment, etc. of existing water lines at all noted connection points to the District's system.
- 4. In case of conflict between these plans and the system specifications, consult the District prior to commencing work.
- Contractor shall notify the District a minimum of 2 working days prior to performing scheduled tests for observation by District personnel.
- Bypass pumping of existing sewer flows is required when connecting to the District's existing sewer system. Contractor shall provide 100% redundant pumping capacity with continuous supervision during pumping operations. Contractor shall coordinate timing, location, etc. of bypass pumping operations with the District prior to commencing pumping operations.
- The horizontal control is the state plane coordinate system, Colorado Central Zone (NAD 83). Coordinates of the two temporary benchmarks are noted below and on the plan.
- 8. Benchmarks: NGS Benchmark "T 395" -- Elevation = 7111.32 (NAVD 1988)

TBM#1 Northwest Property Corner (N1,462,260.00, E3,181,465.66) Elevation=7101.48

TBM#2 Southeast Property Corner (N1,460,800.42, E3,181,738.69) Elevation=7049.84

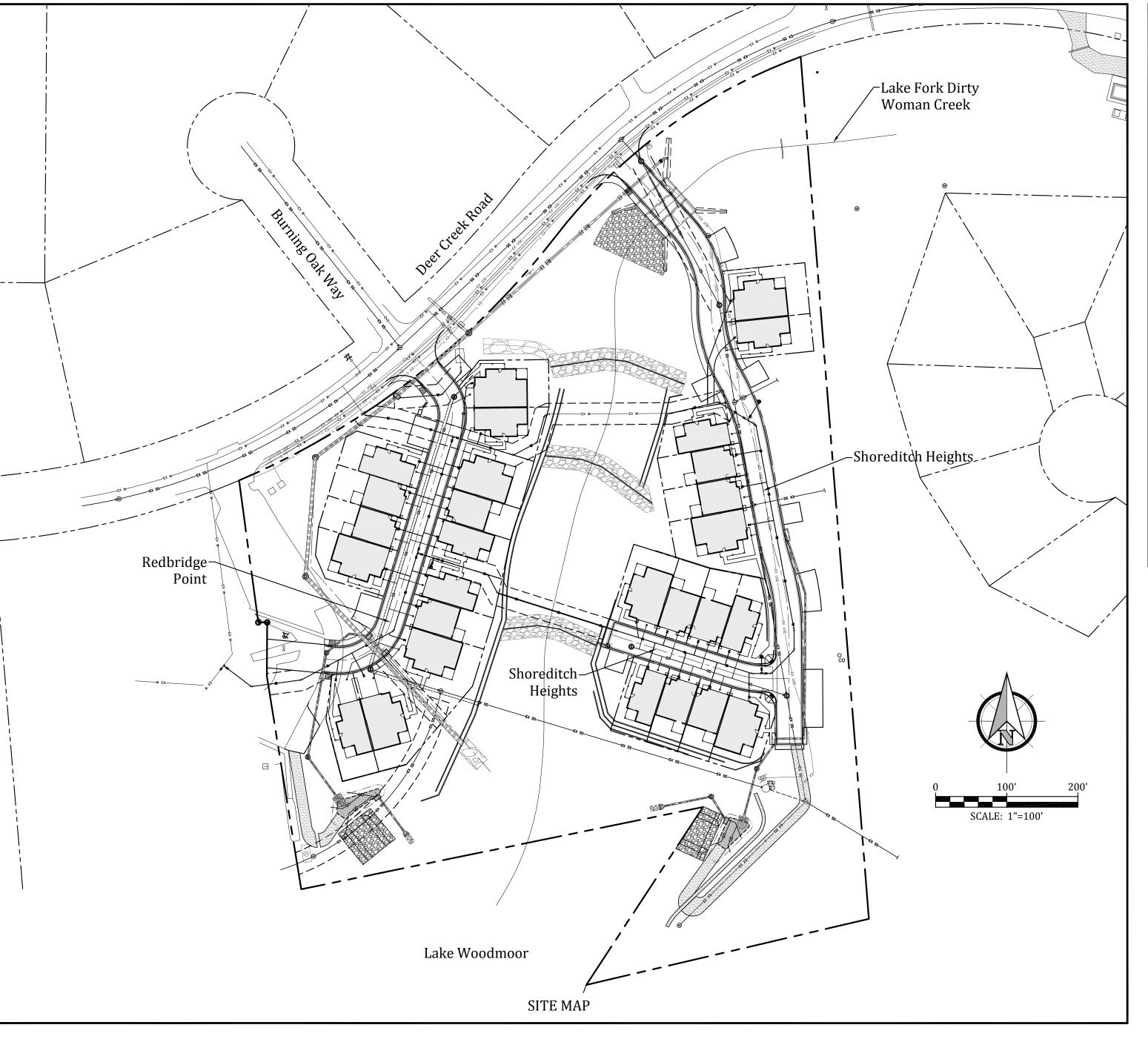


PRE-EXCAVATION CHECKLIST

- Gas and other utility lines of record shown on the
- Utilities Central Locating called at least 2 business days ahead. (1-800-922-1987)
- ☐ Utilities located and marked.
- ☐ Employees briefed on marking and color codes.*
- Employees trained on excavation and safety procedures for natural gas lines.
- When excavation approaches gas lines, employees expose lines by careful probing and hand digging.

*A.G.A./A.P.W.A. STANDARD UTILITY MARKING COLOR CODE

Natural Gas Electric Water Wastewater Green



WATER AND SEWER SERVICE LINE NOTES:

- Sewer service tap connections will be located a minimum of five (5) feet away from any manhole and be installed at the main with a gasket wye or tee fitting for new installations of sewer main. For service tap connections to existing sewer mains a sewer service saddle tap may be installed.
- Sewer service lines/stubs will be installed such that a sewer service clean out is located 5 feet into the property or centered in the front lot easement, whichever is less and be located a minimum of 10 feet away from any side lot line. Tracer wire from the sewer tap at the main to the clean out at the property line shall be installed and a metal tee post will be installed next to the clean out for protection and ease of location.
- A minimum of 10 feet of horizontal separation must be maintained between water service lines and sewer service lines
- 4. Water service lines/stubs will be 3/4-inch in diameter unless otherwise noted and installed such that the curb stop is located 5 feet into the property or centered in the front lot easement, whichever is less and a minimum of 10 feet from any sewer service line/sewer clean out.
- 5. Curb stops and boxes shall be buried such that 6-feet (+/-0') of cover exists as measured from finished grade to the top of the service line. A metal tee post will be installed at the curb stop box for protection and ease of location.
- Water service taps will not be located on a fire hydrant lateral or within 30" from a pipe bell, valve or mechanical joint connection. Water taps will maintain minimum five (5) foot spacing from other taps on the water main.

Direct tapping of water service line corporation stops (i.e. no saddle) will not be

Public Water System Plan & Profiles--Cover Sheet

INDEX OF SHEETS

Utility Plan

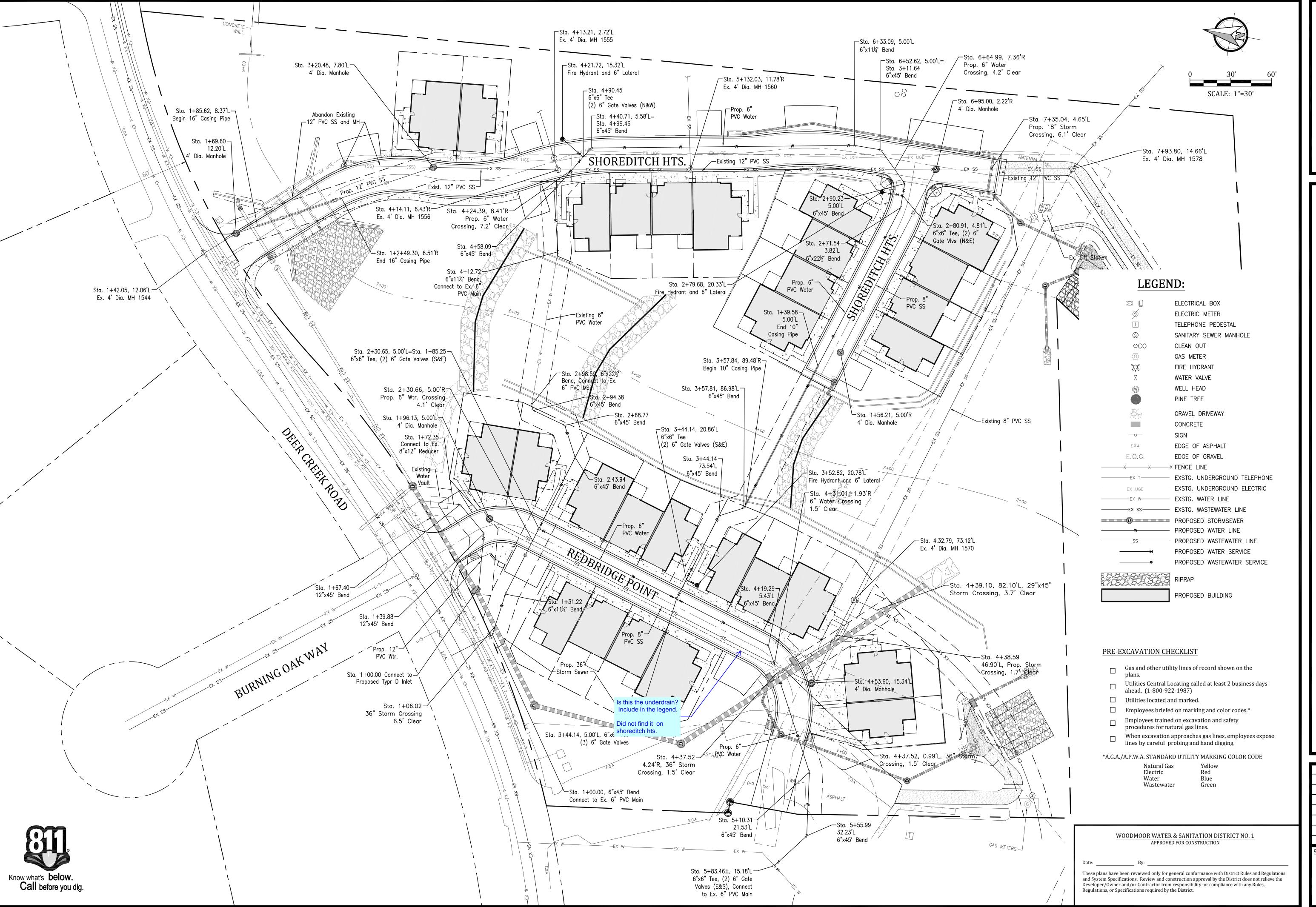
10 Utility Services Plan Water Plan and Profile - Redbridge Pt. and Shoreditch Hts. 12 Water Plan and Profile - Redbridge Pt. and Shoreditch Hts.

WOODMOOR WATER & SANITATION DISTRICT NO. 1

These plans have been reviewed only for general conformance with District Rules and Regulations and System Specifications. Review and construction approval by the District does not relieve the Developer/Owner and/or Contractor from responsibility for compliance with any Rules, Regulations, or Specifications required by the District.

Utility El Paso (

Project N	lo.: 15073
Date:	December 1, 2017
Design:	NRK
Drawn:	CAD
Check:	AWMc
Revision	s:





North Bay at Lake Woodmoor

Project N	o.: 15073
Date:	December 1, 2017
Design:	NRK
Drawn:	CAD
Check:	AWMc
Revisions	::

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Utility El Paso (

SHEET





Engineering Corporation
1604 South 21st Street
Colorado Springs, Colorado 80904

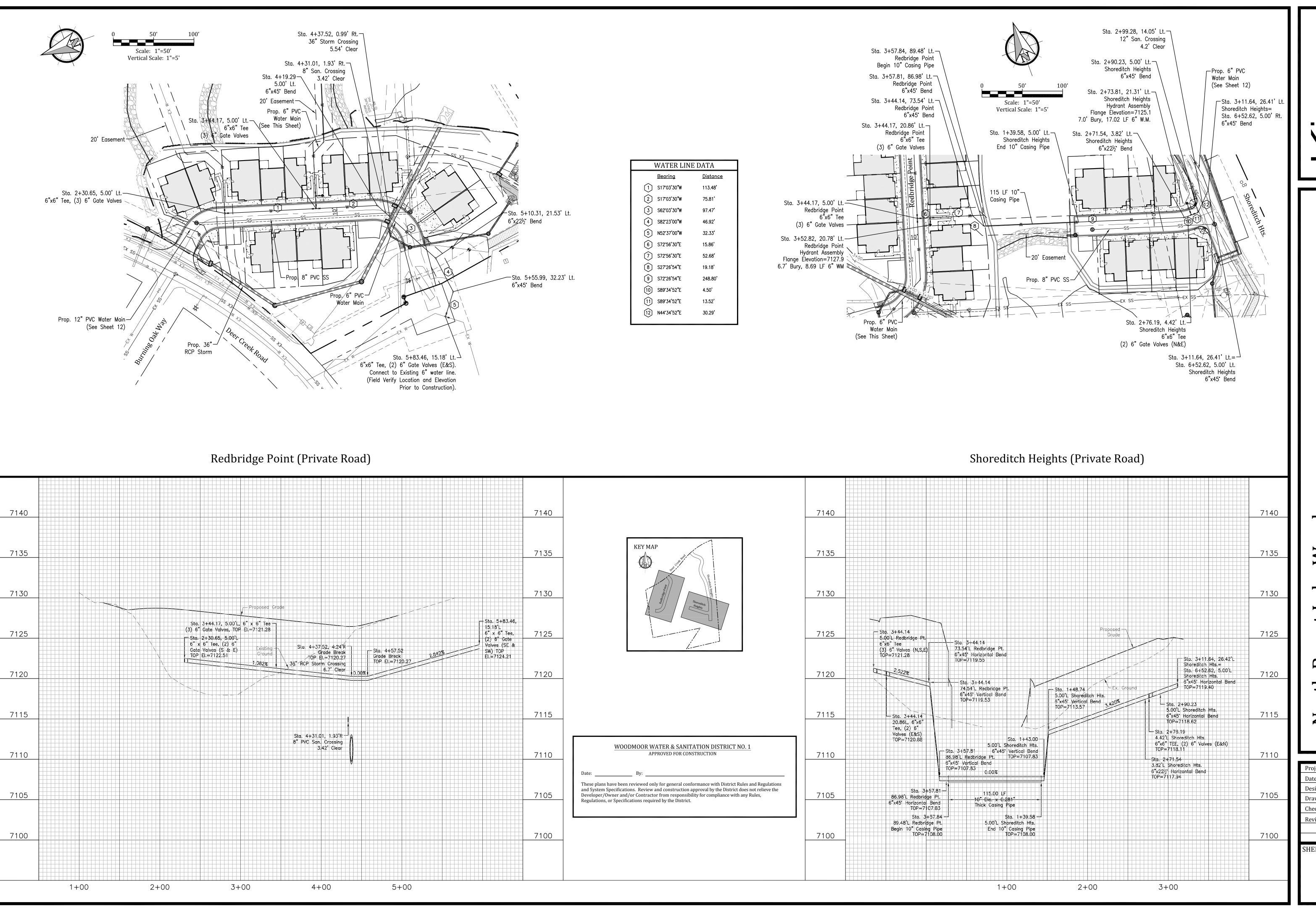
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Project N	o.: 15073
Date:	December 1, 2017
Design:	NRK
Drawn:	CAD
Check:	AWMc
Revisions	:

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North Bay at Lake Woodmoor
Redbridge Point -- 6" Water Plan and Profile
Shoreditch Heights -- 6" Water Plan and Profile
El Paso County, Colorado

Project No.: 15073

Date: December 1, 2017

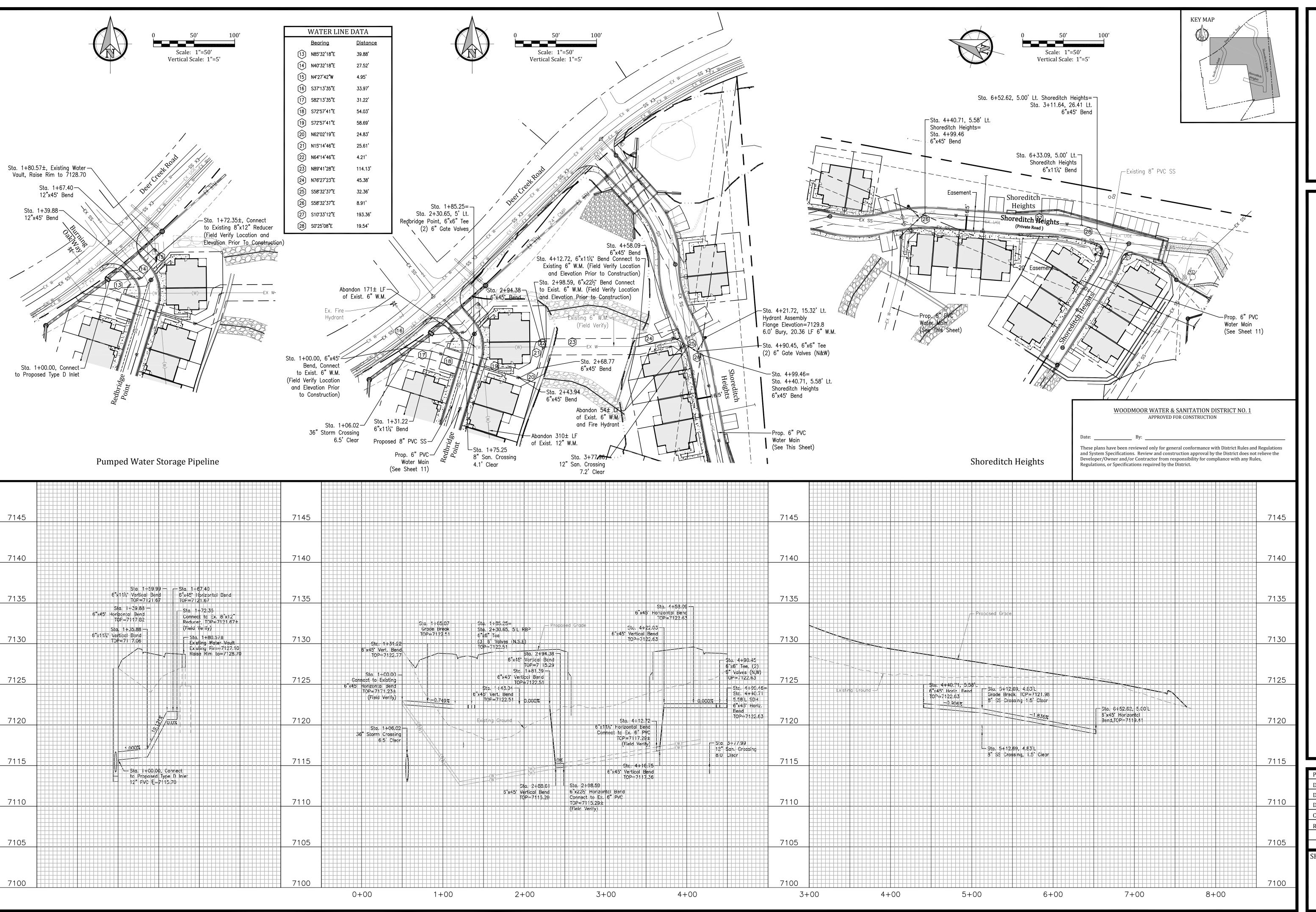
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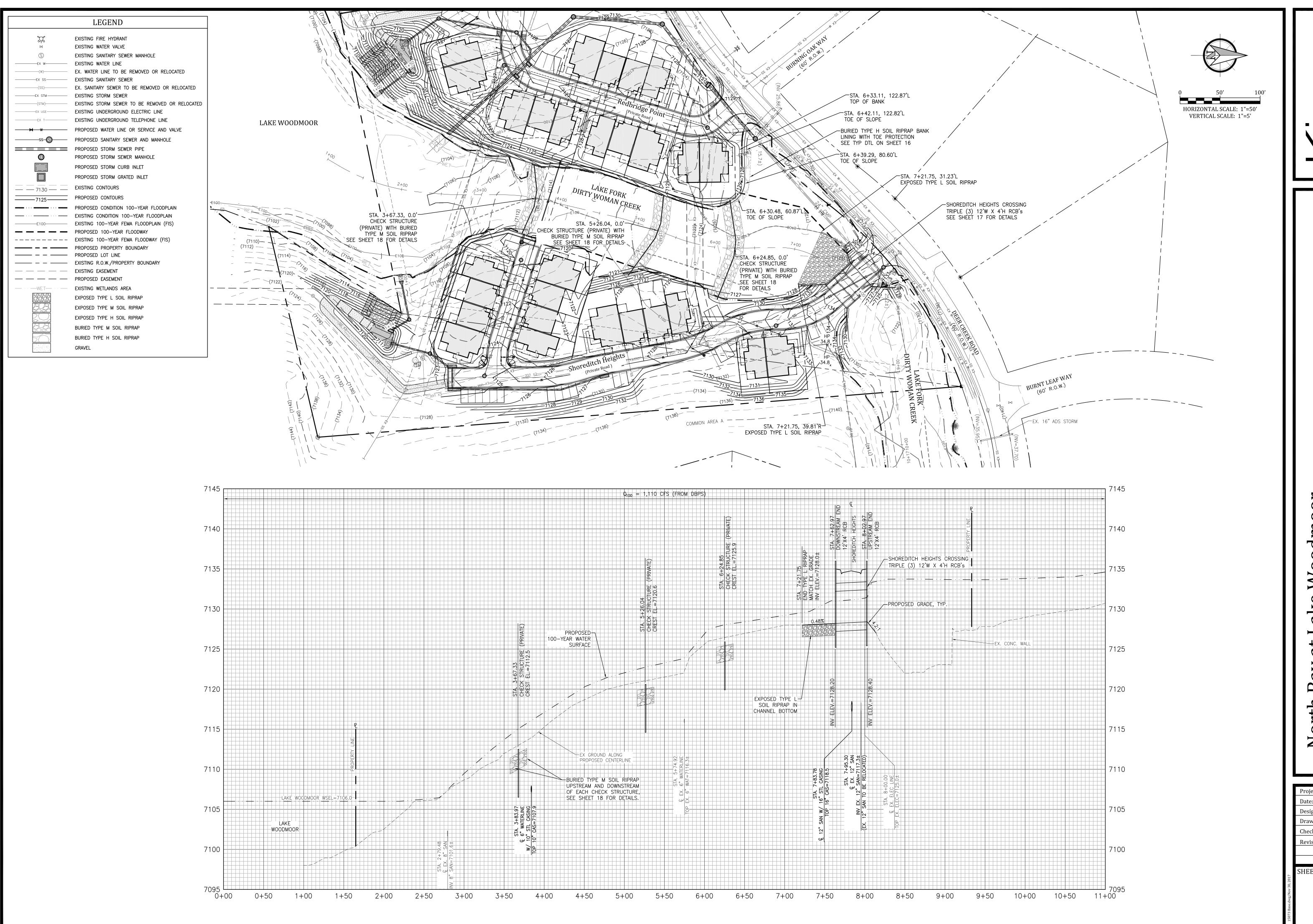




North Bay at Lake Woodmoor 12" Water Storage Pipieline Plan and Profile Shoreditch Heights -- 6" Watermain Plan and Prof

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Engineering Corporation
1604 South 21st Street
Colorado Springs, Colorado 80904

North Bay at Lake Woodmoor Lake Fork Dirty Woman Creek Plan and Profile Sta. 1+00 to Sta. 9+50

Project No.: 15073

Date: December 1, 2017

Design: CJC

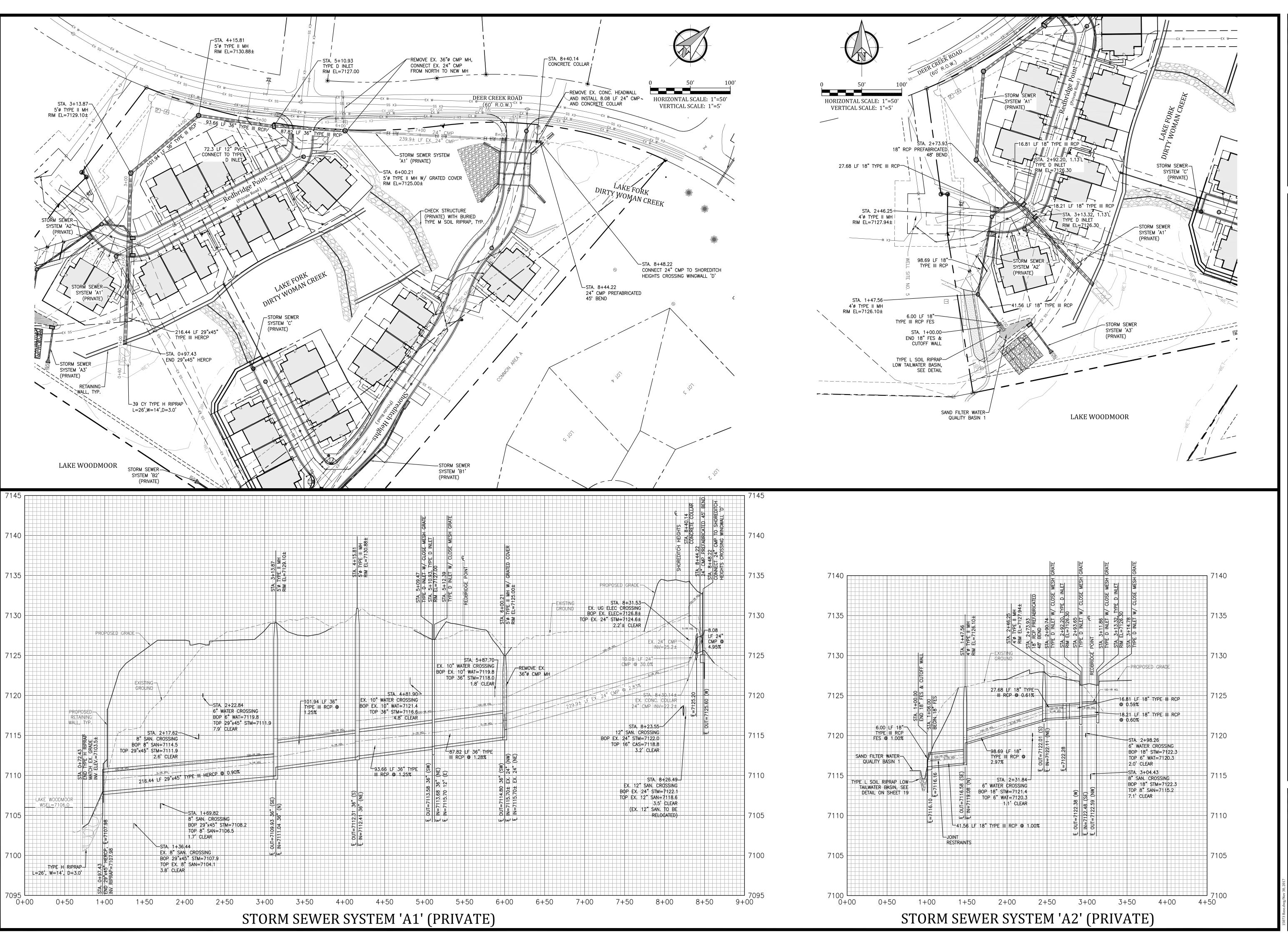
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Revisions:

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Engineering Corporation
1604 South 21st Street
Colorado Springs, Colorado 80904
[719] 630-7342

North Bay at Lake Woodmoor

and Profiles

Storm Sewer Plan ar El Paso County, Colorado

Project No.: 15073

Date: December 1, 2017

Design: CJC

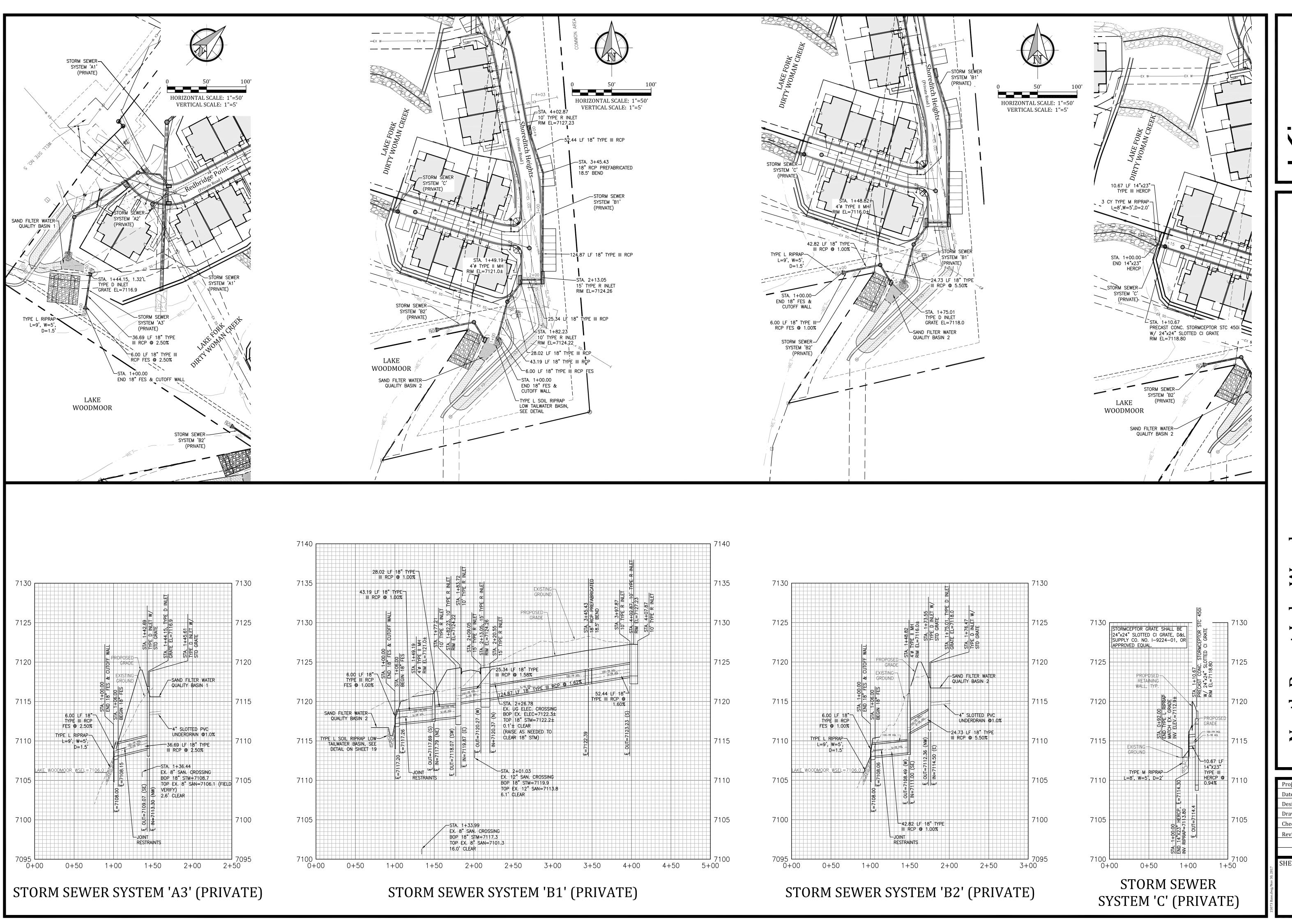
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Revisions:

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North Bay at Lake Woodmoor

Storm Sewer Plan and Profiles El Paso County, Colorado

Project No.: 15073

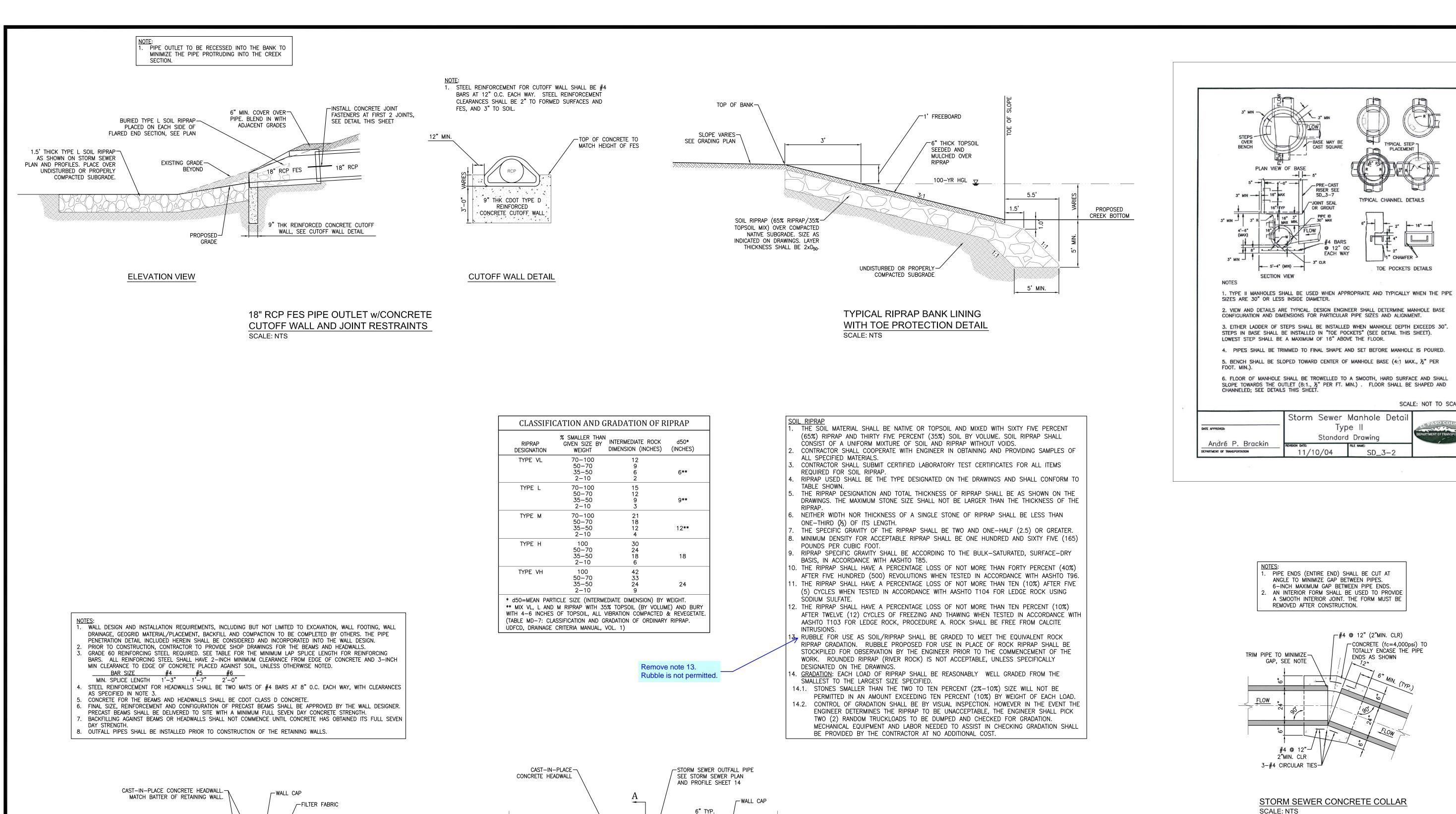
Date: December 1, 2017

Design: CJC

Drawn: CJC

Check: AWMc

Revisions:



PROVIDE BOND BREAK AT WALL OPENING, TYP. EACH SIDE CONCRETE BLOCK-RETAINING WALL (DESIGN BY OTHERS) -PRECAST CONCRETE BEAM, MATCH HEIGHT AND DEPTH OF WALL BLOCKS (DESIGN BY OTHERS) WALL FOOTING (DESIGN BY OTHERS)

ELEVATION VIEW

18" MIN.

BEARING, TYP.

SOIL RIPRAP OUTLET

SHOWN FOR CLARITY

EROSION PROTECTION NOT

3/4" GALVANIZED ANCHOR BOLTS, NUTS AND WASHERS, MILD STEEL, ASTM A 307, ROD LUG SHALL BE COATED WITH COAL-TAR, EPOXY PAINT OR APPROVED EQUAL.

LOCATION OF 1" DIA HOLES

CONCRETE JOINT FASTENERS REQUIRED ON THE FIRST TWO PIPE JOINTS FROM A FLARED END SECTION.

PLACEMENT

TYPICAL CHANNEL DETAILS

TOE POCKETS DETAILS

SCALE: NOT TO SCALE

Type II

_#4 @ 12" (2"MIN. CLR)

ENDS AS SHOWN

CONCRETE (fc=4,000psi) TO

TOTALLY ENCASE THE PIPE

DIAMETER 18"-30" 36"-42" | 6 48"-60" 72"-84" 9"

RETAINING WALL PIPE PENETRATION SCALE: NTS

-CONCRETE BLOCK RETAINING WALL BEYOND

-FILTER FABRIC INSTALLED

-- PRECAST CONCRETE BEAM, MATCH

AROUND PIPE OPENING

HEIGHT AND DEPTH OF WALL

BLOCKS (DESIGN BY OTHERS)

-CONCRETE BLOCK RETAINING

WALL (DESIGN BY OTHERS)

-WALL FOOTING

SECTION A-A

(DESIGN BY OTHERS)

OUTFALL PIPE

CAST-IN-PLACE-CONCRETE HEADWALL

SOIL RIPRAP OUTLET EROSION-PROTECTION. SEE STORM SEWER PLAN AND PROFILE SHEET 14.

CONCRETE PIPE JOINT FASTENER

SCALE: NTS

p 7

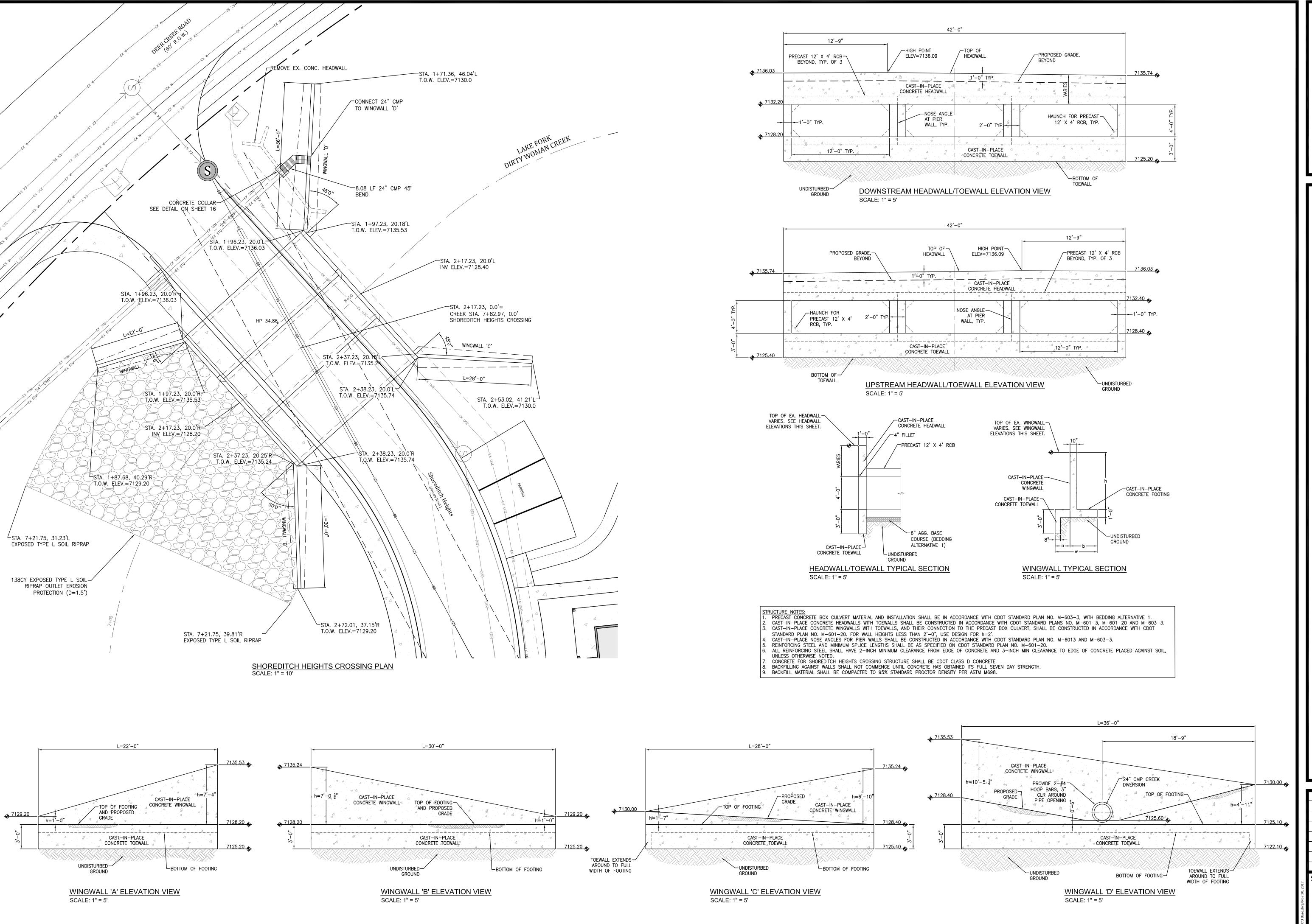
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Engineering Corporations 1604 South 21st Street Colorado Springs, Colorado 80904 [719] 630-7342

North Bay at Lake Woodmoor

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Project No.: 15073

Date: December 1, 2017

Design: CJC

Drawn: CJC

Check: AWMc

Revisions:



			(/ LL DIV	IENSIONS IN FEET	0.11.0.,												
CHECK STRUCTURE STATION	LEFT CREST COORDINATES	RIGHT CREST COORDINATES	LEFT BANK COORDINATES	RIGHT BANK COORDINATES	В	B _R	Sį	S _R	CREST ELEV (LEFT/RIGHT)	ELEV A	ELEV B	ELEV C	ELEV D				
STA. 3+67.33	N 22476.23	N 22473.09	N 22472.88	N 22457.64	26.6	30.6 5.7	5 5.7 7.3	7 3	7112.5	7114.0	7113.8	7112.7	7113.8				
31A. JT07.JJ	E 49997.75	E 50017.50	E 49965.65	E 50052.14	20.0	30.6		/.5									
STA. 5+26.04	N 22630.92	N 22623.82	N 22634.40	N 22590.16	34.4 37.6	37.6	37.6	37.6	37.6		19.9	7120.6		7120.9	7120.0	7123.6	
31A. JT20.04	E 50038.95	E 50057.65	E 50004.76	E 50104.31		'9	19.9	7120.0		/120.9	7120.9	/ 123.					
STA. 6+24.85	N 22724.61	N 22722.37	N 22716.96	N 22701.08	44.3 42	44.7. 40.9	44.7. 40.9	44.7 40.0	44.7 40.0	40.0 7.1	7 1	15.4	7125.9	7128.5	7126.2	7106.0	7100 5
31A. UTZ4.03	E 50060.19	E 50080.06	E 50009.39	E 50134.29		42.8	42.0 7.1	1 13.4	/125.9	/120.3	/ 120.2	7126.2	/128.5				

STRUCTURE NOTES:

1. TOP OF CHECK STRUCTURES SHALL MATCH PROPOSED GRADE ON THE SIDE SLOPES.

2. BACKFILL TO MATCH EXISTING GRADE FOR CHANNEL BOTTOM AND BENCHES.

3. BACKFILLING AGAINST WALLS SHALL NOT COMMENCE LINTIL CONCRETE HAS OBTAINED ITS FOR

BACKFILL TO MATCH EXISTING GRADE FOR CHANNEL BOTTOM AND BENCHES.
 BACKFILLING AGAINST WALLS SHALL NOT COMMENCE UNTIL CONCRETE HAS OBTAINED ITS FULL SEVEN DAY STRENGTH.
 BACKFILL MATERIAL SHALL BE COMPACTED TO 95% STANDARD PROCTOR DENSITY PER ASTM M698.
 THE TOP 3 FEET MINIMUM OF EACH CHECK STRUCTURE SHALL BE FORMED CONCRETE, AND THE BOTTOM 3 FEET CAN BE PLACED AGAINST UNDISTURBED SOIL.

S. LIMIT OF DISTURBANCE REPRESENTS THE MAXIMUM ALLOWABLE LIMIT OF DISTURBANCE TO THE NATURAL CHANNEL BOTH UPSTREAM AND DOWNSTREAM OF EACH CHECK STRUCTURE. DISTURBED AREAS SHALL BE SEEDED WITH A NATIVE GRASS MIX.

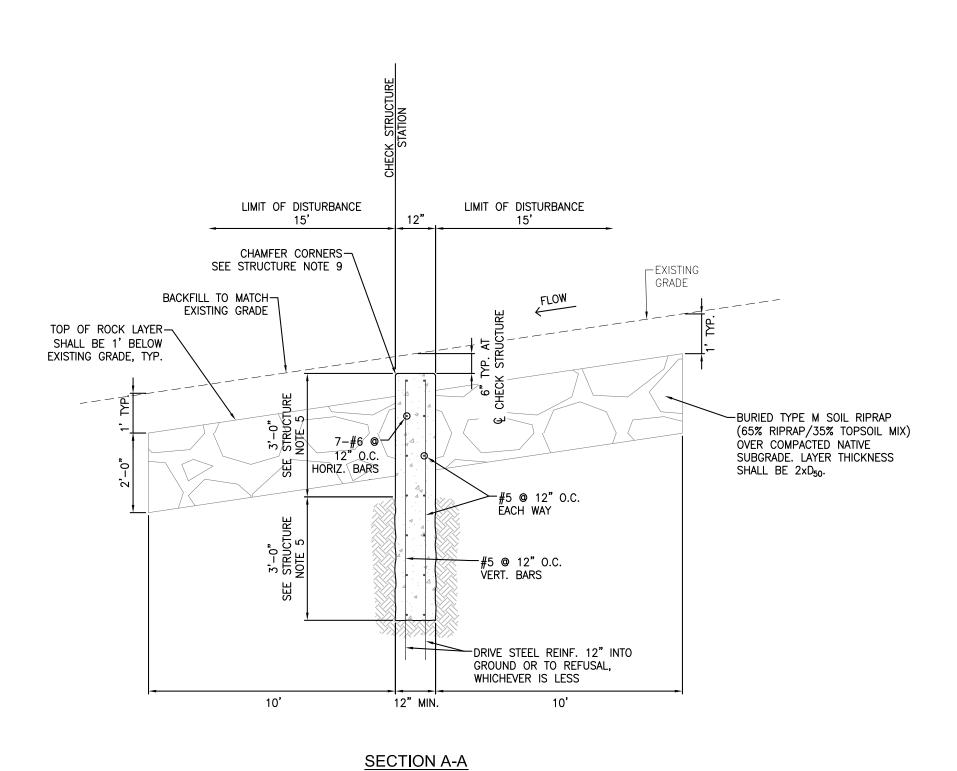
7. GRADE 60 REINFORCING STEEL REQUIRED. SEE TABLE FOR THE MINIMUM LAP SPLICE LENGTH FOR REINFORCING BARS. ALL REINFORCING STEEL SHALL HAVE 2-INCH MINIMUM CLEARANCE FROM EDGE OF CONCRETE AND 3-INCH MIN CLEARANCE TO EDGE OF CONCRETE PLACED AGAINST SOIL, UNLESS OTHERWISE NOTED.

BAR SIZE #4 #5 #6

MIN. SPLICE LENGTH 1'-3" 1'-7" 2'-0"

CONCRETE FOR CHECK STRUCTURES SHALL BE CDOT CLASS B CONCRETE.

8. CONCRETE FOR CHECK STRUCTURES SHALL BE COOT CLASS B CONCRETE.
9. ALL EXPOSED CONCRETE CORNERS SHALL HAVE A 3/4—INCH CHAMFER UNLESS OTHERWISE NOTED.



CHECK STRUCTURE DETAILS (PRIVATE)
NTS

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North

Structure Details County, Colorado

Check : El Paso (

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Project No.: 15073

Date: December 1, 2017

Design: CJC

Drawn: CJC

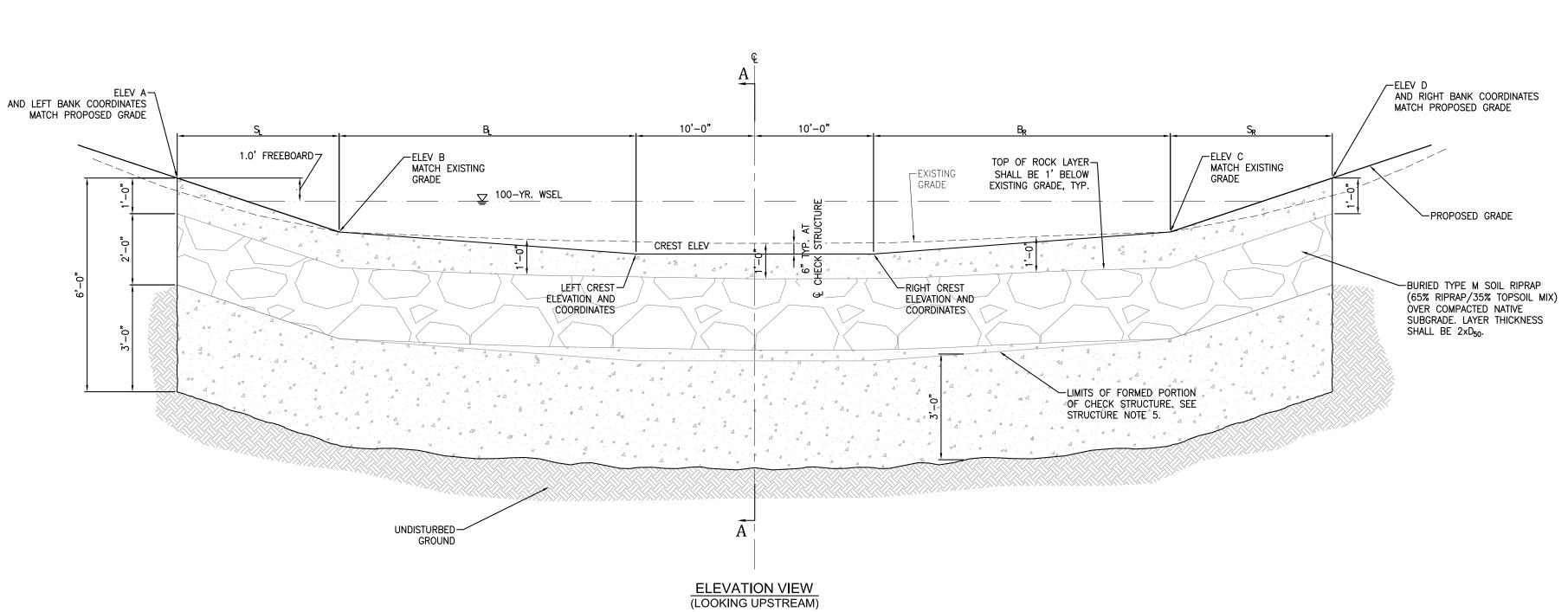
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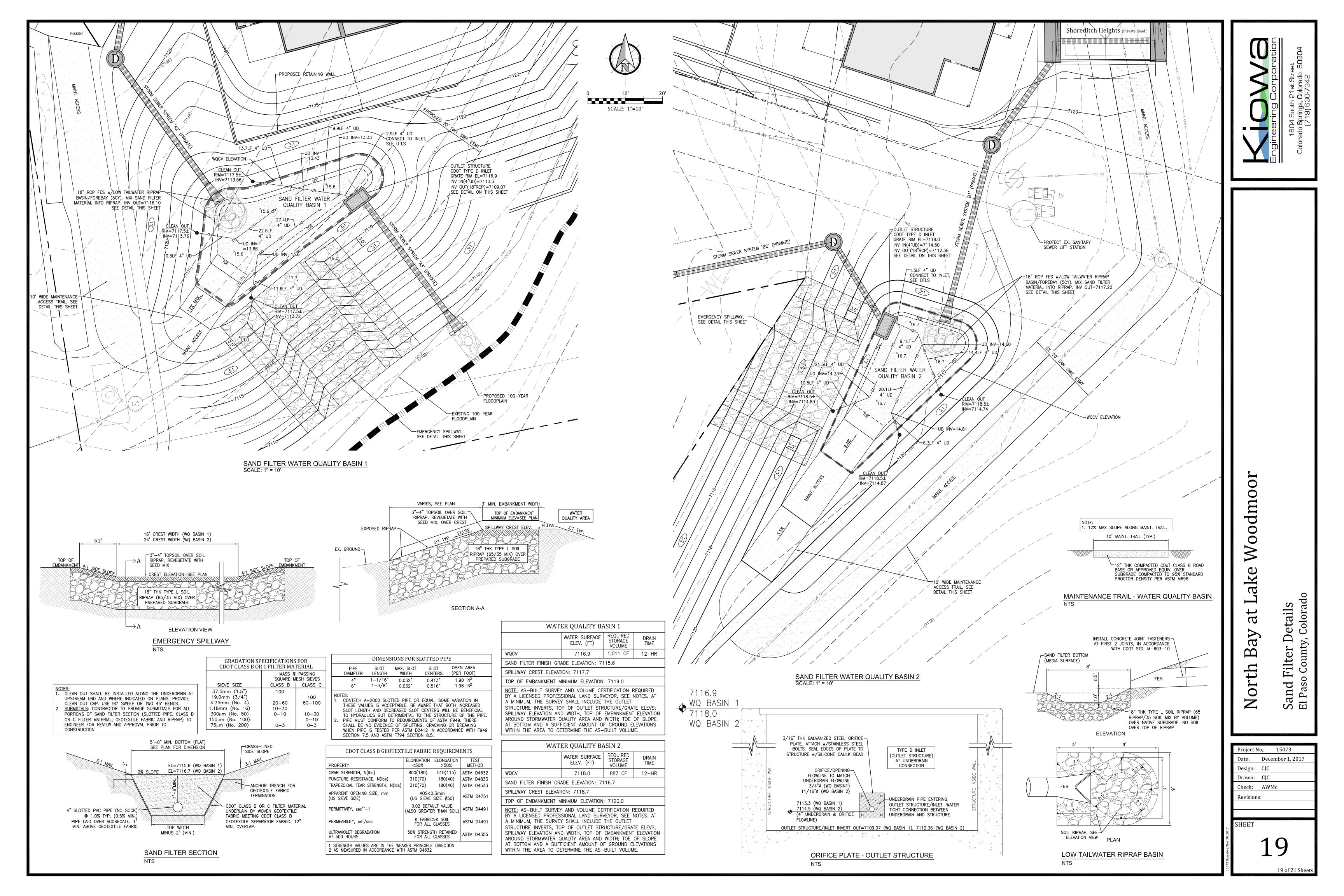
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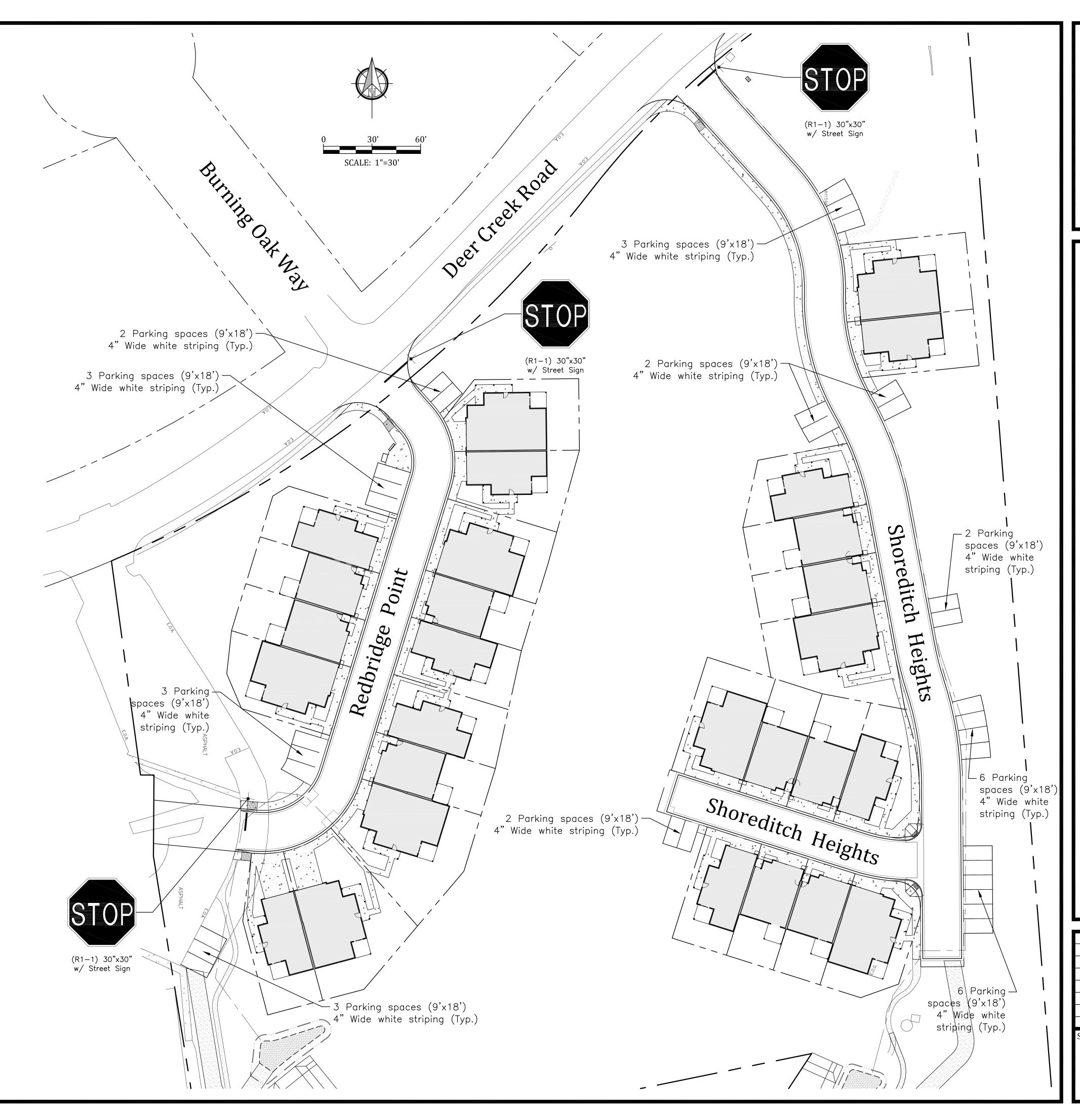
18

18 of 21 Sheet:

BURIED TYPE M SOIL RIPRAP CONCRETE CHECK STRUCTURE SEE STRUCTURE NOTE 8 LEFT CREST CHECK STRUCTURE RIGHT CREST ELEVATION AND FLEV C ELEVATION AND COORDINATES STATION COORDINATES ∽ELEV D AND LEFT BANK AND RIGHT BANK COORDINATES COORDINATES SOIL RIPRAP PLAN VIEW

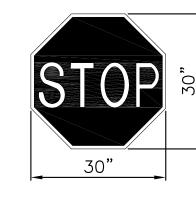






NOTE:

 STOP SIGN PLACEMENT LOCATIONS SHALL BE PER SECTION 2B-9 OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION AND CDoT S-614-1.



STOP SIGN

SIGN DETAILS

SCALE: 1/4" =1'-0"

EL PASO COUNTY STANDARD SIGNING AND STRIPING NOTES:

- 1. All signs and pavement markings shall be in compliance with the current Manual on Uniform Traffic Control Devices (MUTCD).
- 2. Removal of existing pavement markings shall be accomplished by a method that does not materially damage the pavement. The pavement markings shall be removed to the extent that they will not be visible under day or night conditions. At no time will it be acceptable to paint over existing pavement markings.

 Any deviation from the striping and signing plan shall be approved by El Paso County Planning and
- Any deviation from the striping and signing plan shall be approved by El Paso County Planning and Community Development.
 All signs shown on the signing and striping plan shall be new signs. Existing signs may remain or be reused
- if they meet current El Paso County and MUTCD standards.5. Street name and regulatory stop signs shall be on the same post at intersections.
- 5. Street name and regulatory stop signs shall be on the same post at intersection6. All removed signs shall be disposed of in a proper manner by the contractor.
- 7. All street name signs shall have "D" series letters, with local roadway signs being 4" upper-lower case lettering on 8" blank and non-local roadway signs being 6" lettering, upper-lower case on 12" blank, with a white border that is not recessed. Multi-lane roadways with speed limits of 40 mph or higher shall have 8" upper-lower case lettering on 18" blank with a white border that is not recessed. The width of the non-recessed white borders shall match page 255 of the 2012 MUTCD "Standard Highway Signs"
- 8. All traffic signs shall have a minimum High Intensity Prismatic grade sheeting.
- 9. All local residential street signs shall be mounted on a 1.75" x 1.75" square tube sign post and stub post base. For other applications, refer to the CDOT Standard S-614-8 regarding use of the P2 tubular steel post slipbase design.
- 10. All signs shall be single sheet aluminum with 0.100" minimum thickness.
- 11. All limit lines/stop lines, crosswalk lines, pavement legends, and arrows shall be a minimum 125 mil thickness preformed thermoplastic pavement markings with tapered leading edges per CDOT Standard S-627-1. Word and symbol markings shall be the narrow type. Stop bars shall be 24" in width. Crosswalks lines shall be 12" wide and 8' long per CDOT S-627-1.
- 12. All longitudinal lines shall be a minimum 15mil thickness epoxy paint. All non-local residential roadways shall include both right and left edge line striping and any additional striping as required by CDOT S-627-1.
- 13. The contractor shall notify El Paso County Planning and Community Development (719) 520-6819 prior to and upon completion of signing and striping.
- 14. The contractor shall obtain a work in the right of way permit from the El Paso County Department of Public Works (DPW) prior to any signage or striping work within an existing El Paso County roadway.

North Bay at Lake Woodmoor Signing and Striping Plan

Project No.: 15073

Date: March 23, 2017

Design: NRK

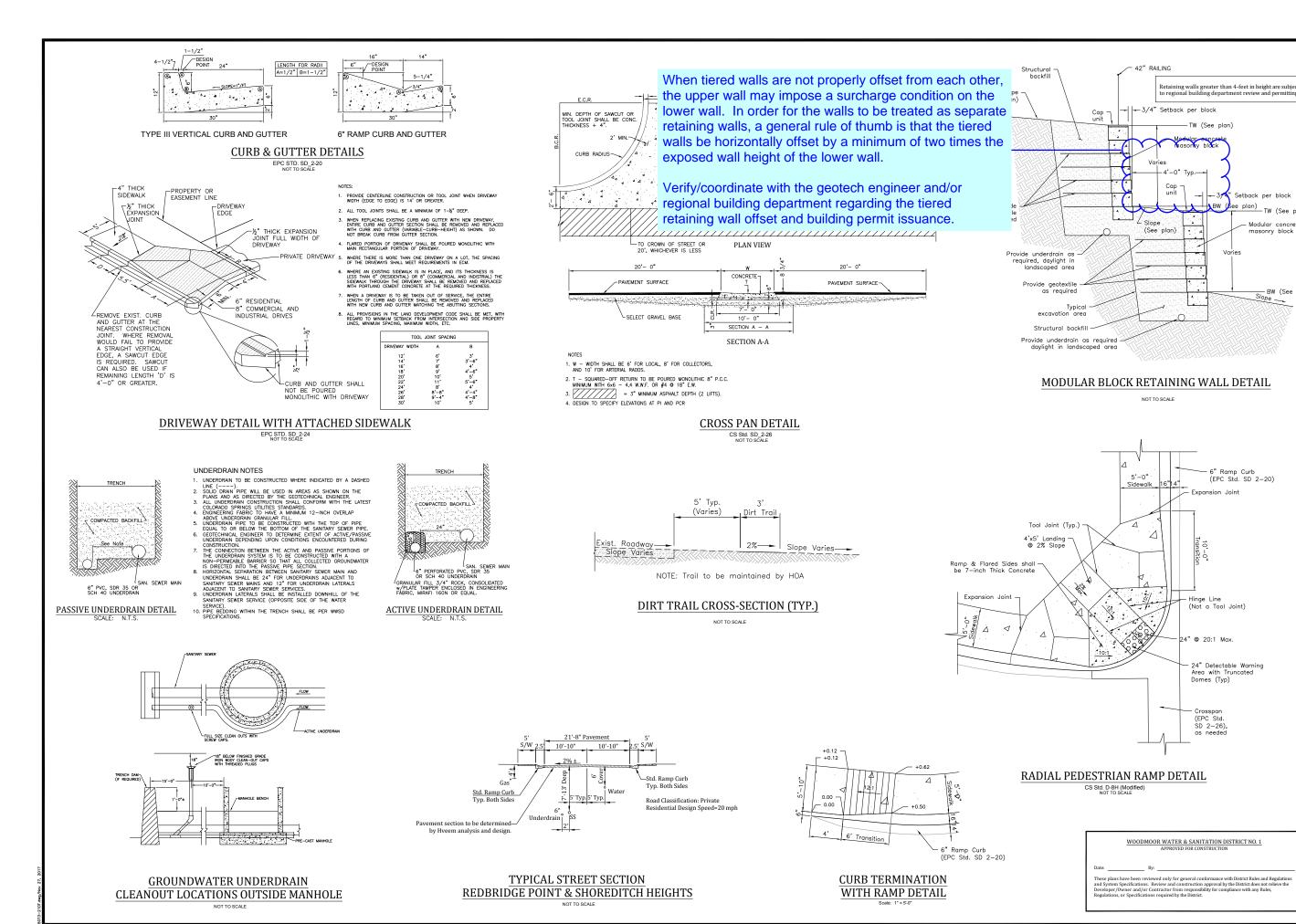
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Check: AWMc

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Woodmoor at Lake Bay North

Civil Details

Miscellaneous Civil I El Paso County, Colorado

- BW (See pla

Date: December 1, 2017 Design: NRK Drawn: CAD Check: AWMc