

## **GENERAL SHEET NOTES**

- A. CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS AND EXISTING UTILITIES AND IS RESPONSIBLE FOR REMOVAL AS REQUIRED TO COMPLETE
- CONTRACTOR TO SUPPLY REFUSE CONTAINERS AS REQUIRED FOR DEBRIS TO
- CONTRACTOR TO PROVIDE SAFETY MEASURES TO PROTECT PEDESTRIANS,
- VEHICLES, AND ALL EXISTING CONSTRUCTION TO REMAIN. CONTRACTOR TO COORDINATE WITH THE OWNER FOR ALLOWABLE STAGING
- CONTRACTOR TO INCLUDE IN BASE BID DEMOLITION AND CAPPING OF IRRIGATION LINES AND THE RELOCATION OF EXISTING UTILITY LINES CONFLICTING WITH SCOPE OF WORK.
- "DEMOLISH" IN ALL NOTES MEANS TO REMOVE THE EXISTING ITEM AND ALL ASSOCIATED COMPONENTS AND PROPERLY DISPOSE OF OFF SITE. CAP ALL UTILITIES EITHER BELOW GRADE OR WITHIN CONCEALED CONSTRUCTION AND
- SALVAGED ITEMS NOT SCHEDULED FOR RE-USE IN THIS PROJECT TO BE
- WHERE PARTIAL DEMOLITION OCCURS CONTRACTOR TO PATCH/REPAIR AND MATCH THE SURROUNDING MATERIALS AND CONDITIONS.
- CONTRACTOR SHALL REFER TO BERNALILLO COUNTY STANDARD SPECIFICATIONS FOR STANDARD CURB AND GUTTER, SIDEWALK, AND ALL OTHER SITE DETAILS NOT CALLED OUT IN THESE PLANS.
- PROCEDURES AND OFFICERS. K. ONLY ELEMENTS SHOWN ARE WITHIN THE SCOPE OF WORK UNLESS NOTED
- WORK, REFER TO MECHANICAL AND ELECTRICAL M. IT IS NOT THE INTENT OF THESE DOCUMENTS TO INDICATE ALL WORK TO ACHIEVE A COMPLETE INSTALLATION. THE CONTRACTOR, IS EXPECTED TO PROVIDE ALL ADDITIONAL SCOPE OF WORK AND ASSOCIATED BID AMOUNTS TO COMPLETE THE INSTALLATION IN A WORKMANLIKE MANNER, INCLUSIVE OF
- N. UTILITIES AND ASSOCIATED EQUIPMENT SHOWN FOR REFERENCE ONLY. CONTRACTOR TO COORDINATE LOCATION AND INSTALLATION. SEE CIVIL AND ELECTRICAL DRAWINGS.
- D. EXISTING LANDSCAPE AREAS ADJACENT TO THE PROJECT SITE ARE TO BE PROTECTED DURING DEMOLITION AND CONSTRUCTION.
- SHEET KEYED NOTES
- DEMOLISH EXISTING ASPHALT PAVING THROUGHOUT.
   DEMOLISH CURB AND GUTTER, COORDINATE EXTENTS WITH NEW CONSTRUCTION.
- DEMOLISH SIDEWALK, COORDINATE EXTENTS WITH NEW CONSTRUCTION.
- DEMOLISH SIDEWALK, COORDINATE EXTENTS WITH NEW CONSTRUCTION.
   EXISTING CURB AND GUTTER TO REMAIN
   DEMOLISH EXISTING DRIVEWAY, COORDINATE WITH NEW CONSTRUCTION
- 5. EXISTING CONCRETE SIDEWALK TO REMAIN
  7. DEMOLISH EXISTING BUILDING INCLUDING ALL ASSOCIATED MECHANICAL ELECTRICAL, AND PLUMBING.
- B. APPROXIMATE LOCATION OF BURIED FIBER OPTIC LINE. PROTECT DURING CONSTRUCTION. COORDINATE WITH OWNER TO CONFIRM LOCATION.

## **LEGEND**

TREE PROTECTION, SEE B6/ASD101 AND SPECIFICATIONS \_\_\_\_\_ DEMOLITION DEMOLISH BASE COURSE

ASPHALT PAVING TO BE DEMOLISHED

COORDINATE EXTENTS WITH NEW CONSTRUCTION

EXISTING TREE TO REMAIN

EXISTING TREE TO BE DEMOLISHED

## **ESC PLAN LEGEND**

LIMITS OF DISTURBANCE

PERIMETER BMP (CONSTRUCTION FENCE WITH WINDFENCE, FILTER SOCK)

**SEDIMENT TRAP** 

**INLET / OUTLET PROTECTION** 

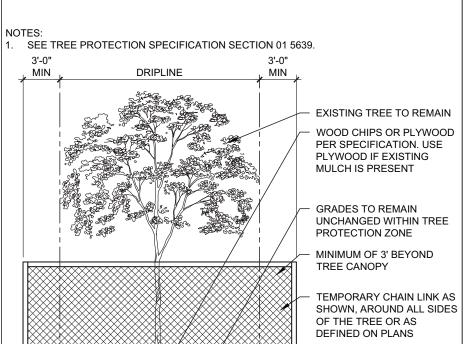
FLOW DIRECTION

VTC (VEHICLE TRACK-OUT CONTROL)

PORTABLE TOILETS (TBD)

WASTE CONTAINER (TBD)

**CONCRETE WASHOUT (TBD** 



TREE PROTECTION

**DEKKER** PERICH SABATINI

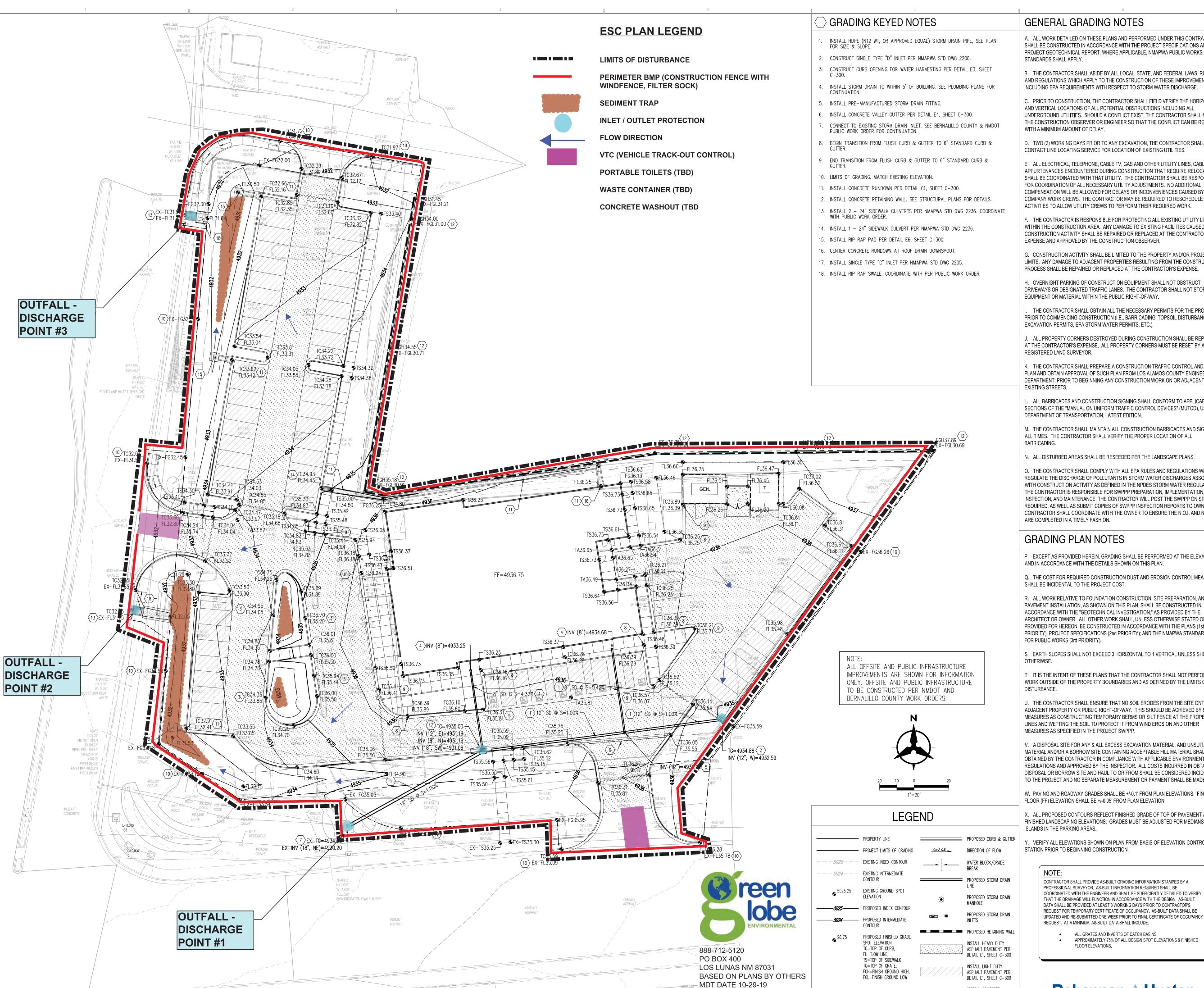
**ARCHITECTURE INSPIRATION** 

ISSUED FOR **BID/PERMIT** 

DRAWN BY REVIEWED BY 8/19/2019 PROJECT NO. 19-0039.001 DRAWING NAME

**DEMOLITION** SITE PLAN

SHEET NO. **ESC 101** 



Fri, 16-Aug-2019 - 3:14:pm, Plotted by: MSATCHES

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## **GENERAL GRADING NOTES**

- A. ALL WORK DETAILED ON THESE PLANS AND PERFORMED UNDER THIS CONTRACT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND THE PROJECT GEOTECHNICAL REPORT. WHERE APPLICABLE, NMAPWA PUBLIC WORKS
- B. THE CONTRACTOR SHALL ABIDE BY ALL LOCAL, STATE, AND FEDERAL LAWS, RULES AND REGULATIONS WHICH APPLY TO THE CONSTRUCTION OF THESE IMPROVEMENTS,
  - C. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL POTENTIAL OBSTRUCTIONS INCLUDING ALL UNDERGROUND UTILITIES. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION OBSERVER OR ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED
  - D. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR SHALL CONTACT LINE LOCATING SERVICE FOR LOCATION OF EXISTING UTILITIES.
- E. ALL ELECTRICAL, TELEPHONE, CABLE TV, GAS AND OTHER UTILITY LINES, CABLES, AND APPURTENANCES ENCOUNTERED DURING CONSTRUCTION THAT REQUIRE RELOCATION, SHALL BE COORDINATED WITH THAT UTILITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL NECESSARY UTILITY ADJUSTMENTS. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR DELAYS OR INCONVENIENCES CAUSED BY UTILITY COMPANY WORK CREWS. THE CONTRACTOR MAY BE REQUIRED TO RESCHEDULE HIS ACTIVITIES TO ALLOW UTILITY CREWS TO PERFORM THEIR REQUIRED WORK.
- F. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITY LINES WITHIN THE CONSTRUCTION AREA. ANY DAMAGE TO EXISTING FACILITIES CAUSED BY CONSTRUCTION ACTIVITY SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE AND APPROVED BY THE CONSTRUCTION OBSERVER.
- G. CONSTRUCTION ACTIVITY SHALL BE LIMITED TO THE PROPERTY AND/OR PROJECT LIMITS. ANY DAMAGE TO ADJACENT PROPERTIES RESULTING FROM THE CONSTRUCTION PROCESS SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE.
- H. OVERNIGHT PARKING OF CONSTRUCTION EQUIPMENT SHALL NOT OBSTRUCT DRIVEWAYS OR DESIGNATED TRAFFIC LANES. THE CONTRACTOR SHALL NOT STORE ANY EQUIPMENT OR MATERIAL WITHIN THE PUBLIC RIGHT-OF-WAY.
- I. THE CONTRACTOR SHALL OBTAIN ALL THE NECESSARY PERMITS FOR THE PROJECT PRIOR TO COMMENCING CONSTRUCTION (I.E., BARRICADING, TOPSOIL DISTURBANCE, EXCAVATION PERMITS, EPA STORM WATER PERMITS, ETC.).
- J. ALL PROPERTY CORNERS DESTROYED DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. ALL PROPERTY CORNERS MUST BE RESET BY A REGISTERED LAND SURVEYOR.
- K. THE CONTRACTOR SHALL PREPARE A CONSTRUCTION TRAFFIC CONTROL AND SIGNING PLAN AND OBTAIN APPROVAL OF SUCH PLAN FROM LOS ALAMOS COUNTY ENGINEERING DEPARTMENT, PRIOR TO BEGINNING ANY CONSTRUCTION WORK ON OR ADJACENT TO
- L. ALL BARRICADES AND CONSTRUCTION SIGNING SHALL CONFORM TO APPLICABLE SECTIONS OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD), US DEPARTMENT OF TRANSPORTATION, LATEST EDITION.
- M. THE CONTRACTOR SHALL MAINTAIN ALL CONSTRUCTION BARRICADES AND SIGNING AT ALL TIMES. THE CONTRACTOR SHALL VERIFY THE PROPER LOCATION OF ALL
- N. ALL DISTURBED AREAS SHALL BE RESEEDED PER THE LANDSCAPE PLANS.
- O. THE CONTRACTOR SHALL COMPLY WITH ALL EPA RULES AND REGULATIONS WHICH REGULATE THE DISCHARGE OF POLLUTANTS IN STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY AS DEFINED IN THE NPDES STORM WATER REGULATIONS. THE CONTRACTOR IS RESPONSIBLE FOR SWPPP PREPARATION, IMPLEMENTATION, INSPECTION, AND MAINTENANCE. THE CONTRACTOR WILL POST THE SWPPP ON SITE AS REQUIRED, AS WELL AS SUBMIT COPIES OF SWPPP INSPECTION REPORTS TO OWNER. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER TO ENSURE THE N.O.I. AND N.O.T. ARE COMPLETED IN A TIMELY FASHION.

## **GRADING PLAN NOTES**

- P. EXCEPT AS PROVIDED HEREIN, GRADING SHALL BE PERFORMED AT THE ELEVATIONS AND IN ACCORDANCE WITH THE DETAILS SHOWN ON THIS PLAN.
- Q. THE COST FOR REQUIRED CONSTRUCTION DUST AND EROSION CONTROL MEASURES SHALL BE INCIDENTAL TO THE PROJECT COST.
- R. ALL WORK RELATIVE TO FOUNDATION CONSTRUCTION, SITE PREPARATION, AND PAVEMENT INSTALLATION, AS SHOWN ON THIS PLAN, SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE "GEOTECHNICAL INVESTIGATION," AS PROVIDED BY THE ARCHITECT OR OWNER. ALL OTHER WORK SHALL, UNLESS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE PLANS (1st PRIORITY); PROJECT SPECIFICATIONS (2nd PRIORITY); AND THE NMAPWA STANDARD SPECS FOR PUBLIC WORKS (3rd PRIORITY).
- S. EARTH SLOPES SHALL NOT EXCEED 3 HORIZONTAL TO 1 VERTICAL UNLESS SHOWN
- T. IT IS THE INTENT OF THESE PLANS THAT THE CONTRACTOR SHALL NOT PERFORM ANY WORK OUTSIDE OF THE PROPERTY BOUNDARIES AND AS DEFINED BY THE LIMITS OF
- U. THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES FROM THE SITE ONTO ADJACENT PROPERTY OR PUBLIC RIGHT-OF-WAY. THIS SHOULD BE ACHIEVED BY SUCH MEASURES AS CONSTRUCTING TEMPORARY BERMS OR SILT FENCE AT THE PROPERTY LINES AND WETTING THE SOIL TO PROTECT IT FROM WIND EROSION AND OTHER MEASURES AS SPECIFIED IN THE PROJECT SWPPP.
- V. A DISPOSAL SITE FOR ANY & ALL EXCESS EXCAVATION MATERIAL, AND UNSUITABLE MATERIAL AND/OR A BORROW SITE CONTAINING ACCEPTABLE FILL MATERIAL SHALL BE OBTAINED BY THE CONTRACTOR IN COMPLIANCE WITH APPLICABLE ENVIRONMENTAL REGULATIONS AND APPROVED BY THE INSPECTOR. ALL COSTS INCURRED IN OBTAINING A DISPOSAL OR BORROW SITE AND HAUL TO OR FROM SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT AND NO SEPARATE MEASUREMENT OR PAYMENT SHALL BE MADE.
- W. PAVING AND ROADWAY GRADES SHALL BE +/-0.1' FROM PLAN ELEVATIONS. FINISHED FLOOR (FF) ELEVATION SHALL BE +/-0.05' FROM PLAN ELEVATION.
- X. ALL PROPOSED CONTOURS REFLECT FINISHED GRADE OF TOP OF PAVEMENT AND FINISHED LANDSCAPING ELEVATIONS; GRADES MUST BE ADJUSTED FOR MEDIANS AND ISLANDS IN THE PARKING AREAS.
- VERIFY ALL ELEVATIONS SHOWN ON PLAN FROM BASIS OF ELEVATION CONTROL STATION PRIOR TO BEGINNING CONSTRUCTION.

CONTRACTOR SHALL PROVIDE AS-BUILT GRADING INFORMATION STAMPED BY A PROFESSIONAL SURVEYOR, AS-BUILT INFORMATION REQUIRED SHALL BE COORDINATED WITH THE ENGINEER AND SHALL BE SUFFICIENTLY DETAILED TO VERIFY THAT THE DRAINAGE WILL FUNCTION IN ACCORDANCE WITH THE DESIGN. AS-BUILT DATA SHALL BE PROVIDED AT LEAST 3 WORKING DAYS PRIOR TO CONTRACTOR'S

ALL GRATES AND INVERTS OF CATCH BASINS APPROXIMATELY 75% OF ALL DESIGN SPOT ELEVATIONS & FINISHED FLOOR ELEVATIONS.

**Bohannan** A Huston

INSTALL CONCRETE PAVEMENT SECTION PER

DETAIL E1, SHEET C-300

# PERICH SABATIN

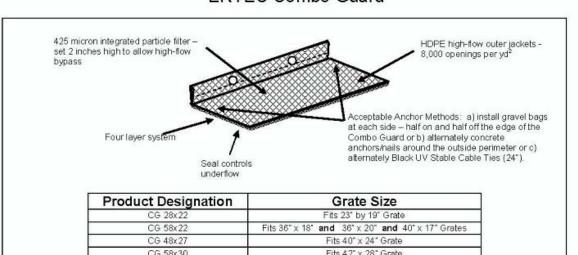
**ARCHITECTURE** DESIGN INSPIRATION



ISSUED FOR **BID/PERMIT** 

DRAWN BY REVIEWED BY MS DATE 8/19/2019 PROJECT NO. 19-0039.001 DRAWING NAME

**OVERALL GRADING &** DRAINAGE PLAN



A temporary sediment filter made of high density polyethylene with an integrated filter. During construction, place device over the grate and curb opening of the drain inlet near disturbed soil. Anchor with 2 Gravel Bags, or alternately 2 ERTEC GR-8 Hooks™ or alternately concrete anchors/nails or alternately black UV stable cable ties (24 to 36").

Storm drain inlet protection is used to intercept sediment laden water at the curb and grate opening and prevent the sediment, associated pollutants and debris from entering the storm water underground pipe systems. The system reduces water velocity which causes heavier soil particles to be deposited above ground. While allowing flow through the module, the barrier filters certain smaller sized particles from suspension and prevents them from flowing through the device and into the pipes. Heavy flows are passed over the top of the filter. Advantages are that it is effective, durable, re-usable, easily

Conditions Where the Practice Applies It is recommended for use over curb & grate openings with small drainage areas. Generally, the drainage areas should be less than 1/3 acre and the total for inlets in series should be 1 acre or less with slopes flatter than 5 percent in the

Design Criteria Geo-textile Filter: Apparent Opening Size (AOS) = 425 micron integrated particle filter. Flow rate (ASTM D-4491) = 145 gpm/ft\*. Provide a bypass over the top Outer Jacket Material: HDPE. For detailed characteristics contact ERTEC. Module weight = 3 to 5 lbs. Module height

= 6.0". Module length/opening size protected varies as per the chart above – according to grate size. Service

temperature (deg F) = -30 to 160. Install system with the vertical section covering the curb inlet and the horizontal section covering the grate. Alternate anchor methods listed above. If using Gravel Bags - place small gravel bags containing clean, pea-sized graded gravel on each end of the cover and butt the bags tightly against the curb to keep water in the gutter from flowing behind the filter (do not use sandbags). The porosity of the gravel bag should allow for design flow rate through the bag. The bag should be durable enough to last the period of intended use. If the storm inlet opening exceeds 5.0' in length, overlap one module by 6" over side of adjoining module for a continuous run until the desired length is achieved. Anchor thru

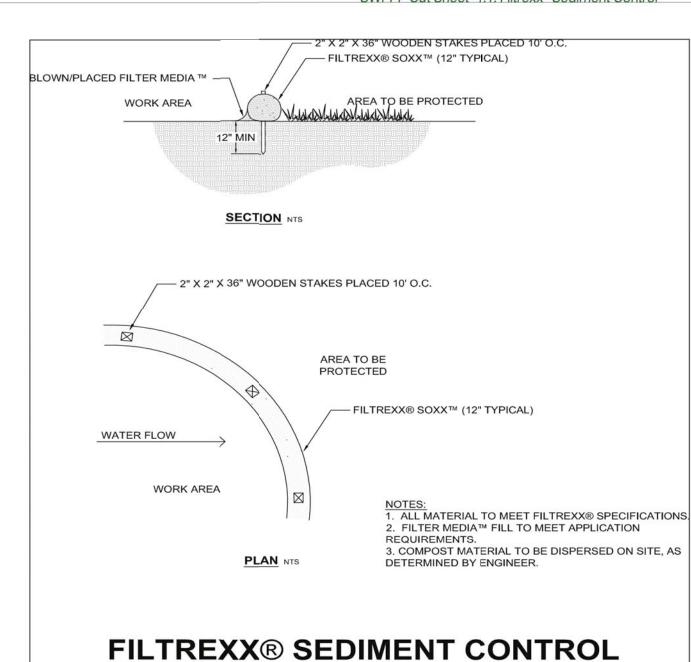
the overlap as necessary. Perform maintenance as required. Inspect following rainfall events and at least daily during prolonged rainfall. Maintain to provide an adequate sediment holding capacity. Debris shall be removed daily and sediment shall be removed when the sediment accumulation reaches 2 inches. Removed sediment shall be incorporated in the project at designated locations or disposed-of outside the project or in conformance with requirements. Remove the device after final stabilization has been achieved.

H400032 Updated: 8/11



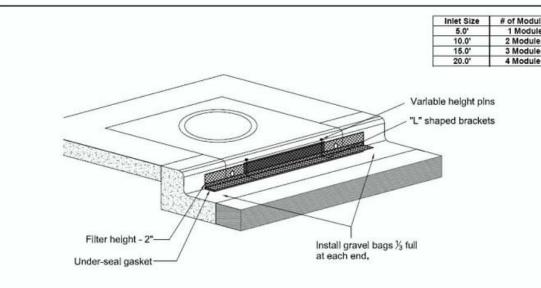
A2-11

SWPPP Cut Sheet -1.1. Filtrexx® Sediment Control



let nature do it." Construction Activities | Section 1: Erosion & Sediment Control | 325

### SWPPP Binder Insert - Curb Inlet Protection ERTEC Curb Inlet Guard™



A temporary sediment barrier, "L" shaped, made of high density polyethylene (HDPE) with an integrated filter (woven geotextile). During construction, place device over the opening of the curb storm inlet near where soil is disturbed (See drawings)

Storm drain inlet protection is used to intercept sediment laden water at the curb gutter opening and prevent sediment, debris

and associated pollutants from entering the storm water underground pipe systems. The barrier reduces water velocity which in turn causes heavier soil particles to be deposited in front. While allowing flow through the module, the barrier filters certain smaller sized particles from suspension and prevents them from flowing through the device and into the pipes. Excessive flows are passed over the top of the filter. Advantages are that it is effective, durable, re-usable, easily installed and cleaned. It is recommended for use in curb openings in front of areas with small drainage areas. Generally, the drainage areas should be less than 1/3 acre and the total for inlets in series should be 1 acre or less with slopes flatter than 5 percent in the contributing

- Geo-textile Filter: See drawing for dimensions. Apparent Opening Size (AOS) = 425 micron integrated particle filter. Flow rate (ASTM D-4491) = 145 gpm/ft<sup>2</sup>. Provide a bypass over the top.
- Outer Jacket Material: HDPE. For detailed characteristics contact ERTEC. Module weight = 3.5 lbs. Module height = 7.5". Module length/opening size protected = 6' 3"/5.0 ft. Service temperature (deg F) = -30 to 160. Install barrier with the anchor flap facing upstream toward the street. Place small gravel bags containing clean, pea-sized graded gravel on each end of the flap and butt the bags tightly against the curb to keep water in the gutter from flowing behind the filter. Additional bags can be placed on the flap as necessary; however, bags should be kept off the street for
- safety reasons. The porosity of the gravel bag should allow for design flow rate through the bag. The bag should be durable enough to last the period of intended use. If the storm inlet opening exceeds 5.0' in length, overlap one of module by 6" over end of adjoining module for a continuous run until the desired length is achieved. When overlapping, note the gasket material under the flap is cut-out where the flap of top module sits on flap of bottom module.

Perform maintenance as required. Inspect following rainfall events and at least daily during prolonged rainfall. Maintain to provide an adequate sediment holding capacity. Trash shall be removed daily and sediment shall be removed when the sediment accumulation reaches 1 inch. Removed sediment shall be incorporated in the project at designated locations or disposed-of outside the project or in conformance with requirements. Remove the device after final stabilization has

Curb Inlet Guard

H999222 Updated: 02/10

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National Pollutant Discharge Elimination System Manual Appendix A5 – Good Housekeeping/Materials Management

August 2012

Revision 2

#### **Concrete Waste Management** Applications Perimeter Control DESCRIPTION Slope Protection Concrete waste management prevents or reduces the discharge of pollutants to storm water by conducting washout offsite, Sediment Trapping performing onsite washout in a designated area, and training Channel Protection employees and subcontractors. **APPLICATIONS** Temporary Stabilization Permanent Stabilization The following low-cost measures will help reduce storm water pollution from concrete wastes: Waste Management Store dry and wet materials under cover, away from Housekeeping Practices Avoid mixing excess amounts of fresh concrete or cement **Targeted Constituents** Perform washout of concrete trucks offsite or in designated areas only. Nutrients Do not wash out concrete trucks into storm drains, open Toxic Materials ditches, streets, or streams. Oil and Grease Do not allow excess concrete to be dumped onsite except in designated areas. Floatable Materials For onsite washout: Construction Wastes <sup> ±</sup> Locate washout area at least 50 feet from storm drains, open ditches, or water bodies. Prevent runoff from this area by constructing a temporary pit or bermed area Impact large enough for liquid and solid waste. Significant Wash out wastes into the temporary pit where the Medium concrete can set, be broken up, and then disposed of When washing concrete to remove fine particles and expose Unknown or Questionable the aggregate, avoid creating runoff by draining the water to a bermed or level area. Do not wash sweepings from exposed aggregate concrete into the street or storm drain. Collect and return sweepings to aggregate base stock pile, or dispose in the trash. Train employees and subcontractors in proper concrete waste management. LIMITATIONS Offsite washout of concrete wastes may not always be possible.

nspect subcontractors to ensure that concrete wastes are being

A5-13

f using a temporary pit, dispose of hardened concrete on a

MAINTENANCE REQUIREMENTS

properly managed.

regular basis.

filtrexx®

Section 1: Erosion & Sediment Control – Construction Activities

# **SWPPP Cut Sheet:** Filtrexx® Sediment Control

Sediment & Perimeter Control Technology

(440-926-2607 or visit website at www.filtrexx.

com). Certification shall be considered current if

appropriate identification is shown during time

of bid or at time of application (current listing

can be found at www.filtrexx.com). Look for the

indicated on plans as directed by the Engineer.

the base of the slope or other disturbed area. In

extreme conditions (i.e., 2:1 slopes), a second

5. Effective Soxx<sup>™</sup> height in the field should be

18" Diameter SiltSoxx™ = 14.5" high, 24"

6. Stakes shall be installed through the middle of

the Sediment control on 10 ft (3m) centers, using

wood stakes. In the event staking is not possible,

pavement, heavy concrete blocks shall be used

behind the Sediment control to help stabilize

7. Staking depth for sand and silt loam soils shall be

12 in (300mm), and 8 in (200mm) for clay soils. 8. Loose compost may be backfilled along the

upslope side of the Sediment control, filling the

seam between the soil surface and the device,

improving filtration and sediment retention.

permanent filter or part of the natural landscape,

establishment of permanent vegetation. The

it may be seeded at time of installation for

Engineer will specify seed requirements.

9. If the Sediment control is to be left as a

2 in (50mm) by 2 in (50mm) by 3 ft (1m) hard

Diameter Sediment control = 19" high.

i.e., when Sediment control is used on

during rainfall/runoff events.

Sediment control shall be constructed at the top

as follows: 8" Diameter Sediment control = 6.5"

high, 12" Diameter Sediment control = 9.5" high,

4. Sediment control should be installed parallel to

3. Sediment control will be placed at locations

Filtrexx® Certified™ Seal.

of the slope.

**PURPOSE & DESCRIPTION** Filtrexx® Sediment control is a three-dimensional

tubular sediment control and storm water runoff filtration device typically used for perimeter control of sediment and other soluble pollutants (such as phosphorus and petroleum hydrocarbons), on and around construction activities.

Filtrexx® Sediment control is to be installed down slope of any disturbed area requiring erosion and sediment control and filtration of soluble pollutants from runoff. Sediment control is effective when installed perpendicular to sheet or low concentrated

- flow. Acceptable applications include: Site perimeters · Above and below disturbed areas subject to sheet
- runoff, interrill and rill erosion Above and below exposed and erodable slopes
- Around area drains or inlets located in a 'sump' On compacted soils where trenching of silt fence is difficult or impossible
- · Around sensitive trees where trenching of silt fence is not beneficial for tree survival or may unnecessarily disturb established vegetation.
- On frozen ground where trenching of silt fence is · On paved surfaces where trenching of silt fence is

INSTALLATION 1. Sediment control used for perimeter control of sediment and soluble pollutants in storm runoff

shall meet Filtrexx® Soxx™ Material Specifications

and use Certified Filtrexx® FilterMedia™. 2. Contractor is required to be Filtrexx<sup>®</sup> Certified™ as determined by Filtrexx® International, LLC

the inlet protection in place.

area from flooding.

let nature do it."

Construction Activities | Section 1: Erosion & Sediment Control | 323

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INSTALLATION SPECIFICATION

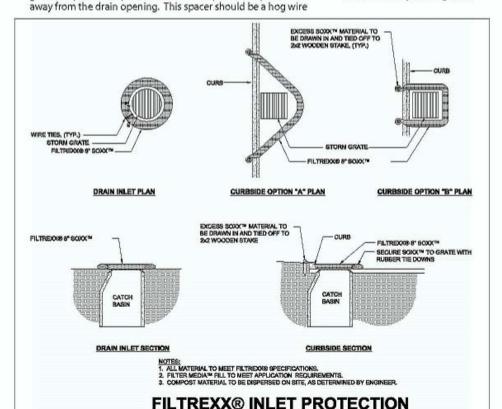
screen bent to overlap the grate opening and keep the sock from falling into the opening. Use at least one spacer for every 4 ft 1.2m) of curb drain opening. The wire grid also prevents other loatable waste from passing over the inlet protection.

50mm) by 3 ft (1m) wooden stakes. Staking depth for sand and silt loam soils shall be 12 in (300mm), and 8 in (200mm) for clay soils.

side of the inlet protection when accumulation has reached 1/2 of the effective height of the inlet protection, or as directed by the Engineer, Alternatively, for drain inlet protection, a new Soxx may be placed on top of the original increasing the sediment storage capacity without soil disturbance.

construction activity has ceased. Regular maintenance includes lifting the inlet protection and cleaning around and under them as sediment collects. . The FilterMedia will be removed from paved areas or dispersed on site soil or behind curb once disturbed area has been

permanently stabilized, construction activity has ceased, or as determined by the Engineer.



10. Filtrexx® Sediment control is not to be used in perennial, ephemeral, or intermittent streams.

See design drawing schematic for correct Filtrexx® Sediment control installation (Figure 1.1).

Routine inspection should be conducted within 24 hrs of a runoff event or as designated by the regulating authority. Sediment control should be regularly inspected to make sure they maintain their shape and are producing adequate hydraulic flowthrough. If ponding becomes excessive, additional Sediment control may be required to reduce effective slope length or sediment removal may be necessary. Sediment control shall be inspected until area above has been permanently stabilized and construction activity has ceased

INSPECTION AND MAINTENANCE

- 1. The Contractor shall maintain the Sediment control in a functional condition at all times and it shall be routinely inspected. 2. If the Sediment control has been damaged, it shall
- be repaired, or replaced if beyond repair.

base of the upslope side of the Sediment control when accumulation has reached 1/2 of the effective height of the Sediment control, or

as directed by the Engineer. Alternatively, a new Sediment control can be placed on top of and slightly behind the original one creating more sediment storage capacity without soil

3. The Contractor shall remove sediment at the

4. Sediment control shall be maintained until disturbed area above the device has been permanently stabilized and construction activity

5. The FilterMedia™ will be dispersed on site once disturbed area has been permanently stabilized, construction activity has ceased, or as determined by the Engineer.

6. For long-term sediment and pollution control applications, Sediment control can be seeded at the time of installation to create a vegetative filtering system for prolonged and increased filtration of sediment and soluble pollutants (contained vegetative filter strip). The appropriate seed mix shall be determined by the Engineer.

Slope Percent	Maximum Slope Length Above Sediment Control in Feet (meters)*				
	8 in (200 mm) Sediment control 6.5 in (160 mm)**	12 in (300 mm) Sediment control 9.5 in (240 mm) **	18 in (450 mm) Sediment control 14.5 in (360 mm) **	24 in (600mm) Sediment control 19 in (480 mm) **	32 in (800mm) Sediment control 26 in (650 mm) **
5	400 (120)	500 (150)	550 (165)	650 (200)	750 (225)
10	200 (60)	250 (75)	300 (90)	400 (120)	500 (150)
15	140 (40)	170 (50)	200 (60)	325 (100)	450 (140)
20	100 (30)	125 (38)	140 (42)	260 (80)	400 (120)
25	80 (24)	100 (30)	110 (33)	200 (60)	275 (85)
30	60 (18)	75 (23)	90 (27)	130 (40)	200 (60)
35	60 (18)	75 (23)	80 (24)	115 (35)	150 (45)
40	60 (18)	75 (23)	80 (24)	100 (30)	125 (38)
45	40 (12)	50 (15)	60 (18)	80 (24)	100 (30)
50	40 (12)	50 (15)	55 (17)	65 (20)	75 (23)

\* Based on a failure point of 36 in (0.9 m) super silt fence (wire reinforced) at 1000 ft (303 m) of slope, watershed width equivalent to receiving length of sediment control device, 1 in/ 24 hr (25 mm/24 hr) rain event.

\*\* Effective height of Sediment control after installation and with constant head from runoff as determined by Ohio State University

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# EROSION CONTROL/ENVIRONMENTAL PROTECTION/STORM WATER POLLUTION PREVENTION PLAN WATER AND WASTEWATER GENERAL

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FULFILLING ALL NECESSARY NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) REQUIREMENTS INCLUDING, BUT NOT LIMITED TO, OBTAINING AN NPDES PERMIT PRIOR TO CONSTRUCTION, FILLING OUT THE NOTICE OF INTENT (NOI) APPLICATION, AND FILLING 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 (BMPS) THAT ARE REQUIRED IN

THE APPROVED SWPPP SHALL BE INCLUDED IN AND ARE INCIDENTAL TO THE SWPPP BID AMOUNT. THE CONTRACTOR SHALL MAINTAIN A COPY OF THE APPROVED SWPPP ON-SITE AT ALL TIMES, AND SHALL COMPLY WITH THE REQUIREMENTS INDICATED ON THAT PLAN. 3. THE CONTRACTOR SHALL CONFORM TO ALL 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 REGULATORYAGENCIES. 4. THE CONTRACTOR SHALL EITHER PROMPTLY REMOVE ANY MATERIAL EXCAVATED WITHIN THE PUBLIC RIGHT-OF-WAY OR INSTALL BMPS IDENTIFIED IN THE APPROVED SWPPP TO PREVENT DISCHARGE OF EXCAVATED MATERIAL WITHIN THE PUBLIC RIGHT-OF-WAY DURING A RAIN OR WIND EVENT.

5. THE CONTRACTOR SHALL IMPLEMENT THE APPROVED SWPPP AND ENSURE THAT NO SOIL ERODES FROM THE SITE INTO PUBLIC RIGHT-OF-WAY OR ONTO PRIVATE PROPERTY. 6. THE CONTRACTOR SHALL MITIGATE EROSION OF TEMPORARY OR PERMANENT DIRT SWALES BY

INSTALLING BMPS IDENTIFIED IN THE APPROVED SWPPP IN THE SWALES PERPENDICULAR TO THE DIRECTION OF FLOW, AND AT INTERVALS AS SPECIFIED IN THE SWPPP. 7. 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 THEREFOR. 8. ANY AREAS DISTURBED BY CONSTRUCTION AND NOT COVERED BY LANDSCAPING OR AN IMPERVIOUS SURFACE SHALL BE REVEGETATED WITH NATIVE GRASS SEEDING. WHEN CONSTRUCTION ACTIVITIES CEASE AND EARTH DISTURBING ACTIVITIES WILL NOT RESUME WITHIN 14 DAYS, STABILIZATION MEASURES MUST BE INITIATED. UNLESS INDICATED OTHERWISE ON THESE PLANS OR ON THE LANDSCAPING PLAN, NATIVE GRASS SEEDING SHALL BE SEEDING PER SECTION 1012 OF THE NEW MEXICO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, APWA NM CHARTER, LATEST EDITION. 9. 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 OFF-SITE AT NO ADDITIONAL COST TO THE OWNER. 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 ARCHAEOLOGICAL

10. 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 505-827-9329. 11. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE REGULATIONS CONCERNING SURFACE AND UNDERGROUND WATER. 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. 12. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE REGULATIONS CONCERNING CONSTRUCTION NOISE AND HOURS OF OPERATION. 13. WHERE STORM INLETS ARE SUSCEPTIBLE TO INFLOW OF SILT OR DEBRIS FROM CONSTRUCTION

ACTIVITIES, PROTECTION SHALL BE PROVIDED ON THEIR UPSTREAM SIDE UTILIZING BMPS IDENTIFIED IN

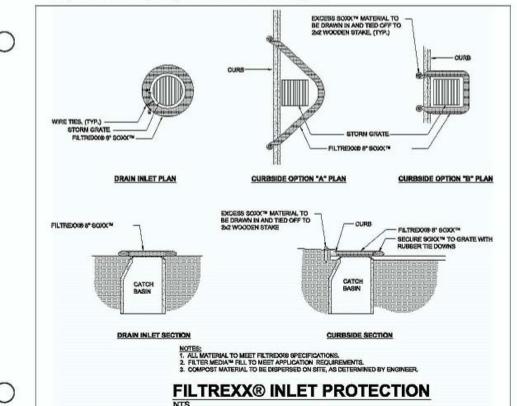
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DRAWN BY SLK REVIEWED BY MDT DATE **9/22/16** PROJECT NO.

DRAWING NAME

**EROSION AND** SEDIMENT CONTROL **DETAILS AND NOTES** 

filtrexx® INLET PROTECTION - Compost Filter Sock Inlet protection shall be placed at locations indicated on plans as directed by the Engineer. Inlet protection should be installed in a pattern that allows complete protection of the inlet area. Stakes shall be installed through the middle of the drain inlet 2. Installation of curb inlet protection will ensure a minimal overlap protection on 5 ft (1.5m) centers, using 2 in (50mm) by 2 in of at least 1 ft (300mm) on either side of the opening being protected. Inlet protection will be anchored to the soil behind the curb using staples, stakes or other devices capable of holding 3. Standard inlet protection for curb inlet protection and curb MAINTENANCE & DISPOSAL sediment containment will use 8 in (200mm) diameter inlet protection, and drain inlets on soil will use 12 in (300mm) or 18 The Contractor shall remove sediment at the base of the upslope n (450mm) diameter inlet protection. In severe flow situations, larger inlet protection may be specified by the Engineer. During curb installation, inlet protection shall be compacted to be slightly shorter than curb height. 4. If inlet protection becomes clogged with debris and sediment, . Inlet protection shall be maintained until disturbed area above they shall be maintained so as to assure proper drainage and water flow into the storm drain. In severe storm events, overflow or around the device has been permanently stabilized and of the inlet protection may be acceptable in order to keep the 5. Curb and drain inlet protection shall be positioned so as to provide a permeable physical barrier to the drain itself, allowing sediment to collect on the outside of the inlet protection. 6. For drains and inlets that have only curb cuts, without street grates, a spacer is required in order to keep the inlet protection



Refer to Design Specification for complete application, design, installation, maintenance, and removal documentation. filtrexx.com | 877.542,7699 | info@filtrexx.com