

# EPA & TCEQ Construction General Permit - Checklist of Record Keeping Responsibilities

## City of San Antonio (COSA) - January-2015

### ENGINEER

#### Pre Construction

- Design of structural controls
- Development of SWP3
- Development of SWP3 site diagram(s) including grading plans/contours anticipated at initial, interim and final grade
- Development of project phasing schedule
- Water Pollution Abatement Plan (WPAP) (Edwards Aquifer)
- AST Plan (Edwards Aquifer)
- Environmental Preconstruction Meeting

#### During Construction

- Evaluation of BMP effectiveness
- Review of SWP3 Modifications

#### Post Construction

- Close Out Inspection
  - o Ensure removal of temporary BMPs,
  - o Verify correct installation of permanent BMPs,
  - o Assess final stabilization achieved to allow Notice of Termination

### COSA CONSTRUCTION PROJECT MANAGER

#### Pre Construction

- Review SWP3 Plans
- Environmental Preconstruction Meeting
- Conduct SWP3 Training (EPA only)

#### Construction

- Ensure inspection are performed and document every 7 days
- Ensure maintenance of up to date copies of SWP3 and associated records
  - o Corrective Action Documentation- within 7 days of time of discovery (EPA)
  - o Maintenance- document if unable to fix/install item within 7 days. (EPA)
- Ensure records of rainfall events are being maintained
  - o Rainfall during normal business hours that measures 0.25 inches or greater (EPA)
    - o Rainfall- record of total rainfall measured and the approximate beginning and ending dates of winter or drought conditions resulting in monthly frequency of inspections (TCEQ)
- Follow Up on incidents and spill reports to ensure proper corrective actions
  - o Construction Manager would be responsible for notifying COSA Environmental of a Reportable Quantity Release (e.g., sheen on water, 25 gallons of "oil" to land, etc.)
  - o Provide a description of spills and incidents & information obtained regarding quality and quantity of stormwater discharges to COSA Environmental.
- Ensure completing of the Grading Log (dates when activities start and end) and Construction Activities Log (daily)
  - o Ensure Construction Activities Log includes dates when construction activities temporarily or permanently cease on site (TCEQ) and dates when stabilization measures are initiated
- Ensure upkeep of the on-site Material Inventory
- Coordinate between Contractor, COSA, and Engineer when the SWP3 requires modification and/or when BMPs are not effective, are missing, or need maintenance/repair
- Ensure contractor is noting SWP3 accordingly (Dates of installment of BMPs, removal of BMPs, maintenance of BMPS, concrete washout pits date of install and removal, etc.)

#### Post Construction

- Close Out Inspection
  - o Ensure removal of temporary BMPs,
  - o Verify correct installation of permanent BMPs,
  - o Assess final stabilization achieved to allow Notice of Termination

### COSA ENVIRONMENTAL GROUP

#### Pre Construction

- Review SWP3 Plans
- File Construction Site Notice with SAWS
- Environmental Preconstruction Meeting
- Conduct SWP3 Training (EPA only)
- Post Construction Site Notice

#### Construction

- Ensure inspection are performed and document every 7 days
- Ensure a designated SW3P inspector certifies all inspection reports.
- Ensure maintenance of up to date copies of SWP3 and associated records
  - o Corrective Action Documentation- within 7 days of time of discovery (EPA)
  - o Maintenance- document if unable to fix/install item within 7 days. (EPA)
- Ensure records of rainfall events are being maintained
  - o Rainfall during normal business hours that measures 0.25 inches or greater (EPA)
  - o Rainfall- record of total rainfall measured and the approximate beginning and ending dates of winter or drought conditions resulting in monthly frequency of inspections (TCEQ)
- Follow Up on incidents and spill reports to ensure proper corrective actions
  - o Conduct TCEQ notification as required for spills above a reportable quantity (e.g., sheen on water, 25 gallons of "oil" to land, etc.)
- Ensure completion of the Grading Log (dates when activities start and end) and Construction Activities Log (daily)
  - o Ensure Construction Activities Log includes dates when construction activities temporarily or permanently cease on site (TCEQ) and dates when stabilization measures are initiated
- Ensure upkeep of the on-site Material Inventory
- Coordinate between Construction Project Manager, Contractor, and Engineer when the SWP3 requires modification and/or when BMPs are not effective, are missing, or need maintenance/repair
- Ensure contractor is noting SWP3 accordingly (Dates of installment of BMPs, removal of BMPs, maintenance of BMPS, concrete washout pits date of install and removal, etc.)

#### Post Construction

- Close Out Inspection
  - o Ensure removal of temporary BMPs,
  - o Verify correct installation of permanent BMPs,
  - o Ensure removal of posted SW3P documents
  - o Assess final stabilization achieved to allow Notice of Termination
- Obtain and file all records associated with the TPDES/NPDES Permit activities at the project for 3 years
- Terminate Construction Site Notice with SAWS

### CONTRACTOR

#### Pre Construction

- Review SWP3 Plans
- File Construction Site Notice with SAWS
- Provide the name, company, and certification of the stormwater Inspector [see COSA Ordinance No. 2019-02-04-0123, Sec. 34-805 (q)].
- Environmental Preconstruction Meeting
- Conduct SWP3 Training (EPA only)
- Post Construction Site Notice
- Provide SWPPP sheet showing staging area(s) within 1 mile of the project.

#### Construction

- Conduct inspections every 7 days and maintain records of inspections and corrective actions
- Ensure a designated SW3P inspector certifies all inspection reports.
- Maintain up to date copies of SWP3 and associated records
  - o Corrective Action Documentation- within 7 days of time of discovery (EPA)
  - o Maintenance- document if unable to fix/install item within 7 days. (EPA)
- Record rainfall events and maintain documentation with the SWP3
  - o Rainfall during normal business hours that measures 0.25 inches or greater (EPA)
  - o Rainfall- record of total rainfall measured and the approximate beginning and ending dates of winter or drought conditions resulting in monthly frequency of inspections (TCEQ)
- Conduct and record environmental monitoring-
  - o Retain all related records including: TSS (Once per week), Turbidity (Twice per day upstream and downstream) (EPA)
  - o Sampling-(onsite batch plant) document if sampling is not completed within the first 30 minutes of discharge (TCEQ).
- Follow Up on incidents and spill reports to ensure proper corrective actions
  - o Notify Construction Site Project Manager immediately of spills above a reportable quantity (e.g., sheen on water, 25 gallons of "oil" to land, etc.)
    - o Provide a description of spills and incidents & information obtained regarding quality and quantity of stormwater discharges to the Project Manager, as necessary.
- Complete the Grading Log (dates when activities start and end) and Construction Activities Log (daily)
  - o Ensure Construction Activities Log includes dates when construction activities temporarily or permanently cease on site (TCEQ) and dates when stabilization measures are initiated
- Maintain an on-site Material Inventory
- Update SWP3 to depict actual locations and types of BMPs, potential pollutant sources, etc., as the project proceeds.
- Coordinate between Construction Project Manager, COSA Environmental, and Engineer when the SWP3 requires modification and/or when BMPs are not effective, are missing, or need maintenance/repair
- Ensure SWP3 is being noted accordingly (Dates of installment of BMPs, removal of BMPs, maintenance of BMPS, concrete washout pits date of install and removal, etc.)

### CONTRACTOR (Cont'd)

#### Post Construction

- Close Out Inspection
  - o Ensure removal of temporary BMPs,
  - o Verify correct installation of permanent BMPs,
  - o Assess final stabilization achieved to allow Notice of Termination
  - o Ensure removal of posted SW3P documents
- Obtain and file all records associated with the TPDES/NPDES Permit activities at the project for 3 years
- Terminate Construction Site Notice with SAWS

JANUARY 2015

CITY OF SAN ANTONIO  
PUBLIC WORKS DEPARTMENT

STORM WATER POLLUTION  
GENERAL NOTES

70% % SUBMITTAL	PROJECT NO.: 23-03763	DATE: 1/20/2023
DRWN. BY: _____	DSGN. BY: _____	CHKD. BY: _____

SHEET NO.: 305

## SITE DESCRIPTION

1. PROJECT NAME AND LOCATION: DOLOROSA STREET RECONSTRUCTION

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2. CONTACT AND PHONE NO.: CAMACHO-HERNANDEZ & ASSOCIATES  
415 EMBASSY OAKS, STE 205, SAN ANTONIO, TEXAS 78216  
210-341-6200

3. PROJECT DESCRIPTION: FOR WORK CONSISTING OF PAVEMENT, GRADING, BASE, STORM DRAIN, SIDEWALKS, AND SIGNING.

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4.  LINEAR ROW OR  NON LINEAR ROW

5. POTENTIAL POLLUTANT SOURCES AT THE CONSTRUCTION PROJECT MAY INCLUDE (CHECK ALL THAT APPLY):

<input checked="" type="checkbox"/> DUST	<input checked="" type="checkbox"/> LITTER/TRASH	<input type="checkbox"/> CONTAMINATED SOILS
<input checked="" type="checkbox"/> VEHICLE FLUIDS	<input checked="" type="checkbox"/> AGGREGATE, BASE, SAND,	<input type="checkbox"/> FERTILIZERS/HERBICIDES
<input checked="" type="checkbox"/> OIL AND GREASE	<input checked="" type="checkbox"/> SAND SPOILS	(DESCRIBE)
<input checked="" type="checkbox"/> CONCRETE WASHOUT	<input type="checkbox"/> VEHICLE WASH WATER	<input type="checkbox"/> OTHER CHEMICALS (DESCRIBE)

6. MAJOR SOIL DISTURBING ACTIVITIES: PLACEMENT OF UTILITIES, ILLUMINATION, TRAFFIC POLES, STORM DRAIN, BASE, PAVEMENT, CURB, SIDEWALK, AND ADA RAMPS.

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TOTAL PROJECT AREA (ACRES): 5.76 MATERIAL STORAGE AREAS (ACRES): \_\_\_\_\_ SUPPORTING ASPHALT PLANT: \_\_\_\_\_  
TOTAL AREA TO BE DISTURBED: 5.08 SUPPORTING CONCRETE BATCH PLANT: \_\_\_\_\_ SUPPORTING BARROW PIT: \_\_\_\_\_  
LAYDOWN YARDS: \_\_\_\_\_ OTHER: \_\_\_\_\_

7. WEIGHTED RUNOFF COEFFICIENT (AFTER CONSTRUCTION):  
C= 0.96

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8. EXISTING CONDITION OF SOIL, VEGETATIVE COVER AND % OF VEGETATIVE COVER:  
EXISTING CONDITION OF SOIL: AUSTIN SILTY CLAY (AUC), 2% TO 5% SLOPES.  
EXISTING VEGETATIVE COVER: NATIVE GRASSES AND TREES.  
EXISTING % OF VEGETATIVE COVER: APPROX 10%. FAIR AND PORTIONS MAINTAINED.

9. DESCRIPTION OF WATER DISCHARGED NOT ASSOCIATED WITH CONSTRUCTION:  
N/A

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10. NAMES AND SEGMENT NUMBERS OF RECEIVING WATERS THAT WILL RECEIVE DISCHARGES FROM DISTURBED AREAS OF THE PROJECT:  
SAN PEDRO CREEK

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11. IDENTIFY STORMWATER DISCHARGE POINTS:  
STORMWATER WILL COLLECT THROUGH GUTTER FLOW AND INTO STORM INLETS. STORM INLETS WILL CONVEY WATER TO EXISTING TRUNKLINE AND EVENTUALLY DISCHARGES TO SAN PEDRO CREEK.

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12. DESCRIPTION AND TIME FRAME FOR INSTALLATION OF STABILIZATION PRACTICES IN CONJUNCTION WITH CONSTRUCTION:  
REFER TO SW3P P&P SHEETS FOR LOCATIONS. SW3P MEASURES SHALL BE PLACED PRIOR TO CONSTRUCTION AND REMAIN IN PLACE UNTIL VEGETATION HAS BEEN ESTABLISHED.

## EROSION AND SEDIMENTATION CONTROLS

1. SOIL STABILIZATION PRACTICES: (Select T = Temporary or P = Permanent, as applicable)

<input type="checkbox"/> SEEDING	<input type="checkbox"/> PRESERVATION OF NATURAL RESOURCES
<input type="checkbox"/> MULCHING (Hay or Straw)	<input type="checkbox"/> FLEXIBLE CHANNEL LINER
<input type="checkbox"/> BUFFER ZONES	<input type="checkbox"/> RIGID CHANNEL LINER
<input type="checkbox"/> PLANTING	<input type="checkbox"/> SOIL RETENTION BLANKET
<input type="checkbox"/> COMPOST/MULCH FILTER BERM	<input checked="" type="checkbox"/> P COMPOST MANUFACTURED TOPSOIL
<input checked="" type="checkbox"/> P SODDING	<input type="checkbox"/> OTHER (Specify Practice)

OTHER:  
DISTURBED AREAS ON WHICH CONSTRUCTION ACTIVITY HAS CEASED TEMPORARILY OR PERMANENTLY, SHALL BE STABILIZED WITHIN 14 DAYS UNLESS ACTIVITIES ARE SCHEDULED TO RESUME AND DONE WITHIN 21 DAYS.

2. STRUCTURAL PRACTICES:

<input type="checkbox"/> SILT FENCES
<input type="checkbox"/> HAY BALES
<input type="checkbox"/> ROCK FILTER DAMS
<input type="checkbox"/> DIVERSION, INTERCEPTOR OR PERIMETER DIKES
<input type="checkbox"/> DIVERSION, INTERCEPTOR OR PERIMETER SWALES
<input type="checkbox"/> DIVERSION, DIKE AND SWALE COMBINATIONS
<input type="checkbox"/> PIPE SLOPE DRAINS
<input type="checkbox"/> PAVED FLUMES
<input type="checkbox"/> ROCK BEDDING AT CONSTRUCTION EXIT (STABILIZED ENTRANCE)
<input checked="" type="checkbox"/> T TIMBER MATTING AT CONSTRUCTION EXIT (STABILIZED ENTRANCE)
<input type="checkbox"/> CHANNEL LINERS
<input type="checkbox"/> SEDIMENT TRAPS
<input type="checkbox"/> SEDIMENT BASINS
<input checked="" type="checkbox"/> T STORM INLET SEDIMENT TRAP
<input type="checkbox"/> STONE OUTLET SEDIMENT STRUCTURES
<input checked="" type="checkbox"/> P CURBS AND GUTTERS
<input checked="" type="checkbox"/> P STORM SEWERS
<input type="checkbox"/> VELOCITY CONTROL STRUCTURES
<input checked="" type="checkbox"/> T OTHER: (Specify Practice)

OTHER:  
SANDBAGS

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3. NARRATIVE - SEQUENCE OF CONSTRUCTION (STORMWATER MANAGEMENT) ACTIVITIES:

- INSTALL AND MAINTAIN SW3P MEASURES.
- CONSTRUCT PROPOSED DRAINAGE, PAVEMENT, SIDEWALK, DRIVEWAYS, CURBING AND TRAFFIC ITEMS
- PLACE TOPSOIL AND SODDING AND ESTABLISH VEGETATION FOR DISTURBED AREAS
- PERFORM FINAL CLEAN UP AND REMOVE SW3P MEASURES

4. A DESCRIPTION OF MAINTENANCE PROCEDURES FOR CONTROL MEASURES USED:  
CONTROL MEASURES SHALL BE INSPECTED ON A REGULAR BASIS BY THE COSA INSPECTOR AND REPLACED AS DIRECTED

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5. STORMWATER MANAGEMENT:  
THE PROPOSED FACILITY WAS DESIGNED IN CONSIDERATION OF HYDRAULIC DESIGN STANDARDS TO CONVEY STORMWATER IN A MANNER THAT IS PROTECTIVE OF PUBLIC SAFETY AND PROPERTY. VELOCITIES DO NOT REQUIRE DISSIPATION DEVICES.

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6. A DESCRIPTION OF PERMANENT STORM WATER MANAGEMENT CONTROLS:  
CONCRETE CURB AND GUTTERS, AND SODDING AND LANDSCAPING ALONG PROPOSED LIMITS.

7. THE FOLLOWING ITEMS SHOULD BE UPDATED AS NECESSARY AND BE INCLUDED AS PART OF THE WEEKLY INSPECTION REPORTS

SCHEDULE OF CONSTRUCTION ACTIVITIES IS MAINTAINED BY \_\_\_\_\_ AND CAN BE ACCESSED BY CONTACTING \_\_\_\_\_ (NAME) AT \_\_\_\_\_ (PHONE)

INSTALLATION OF STORMWATER CONTROL MEASURES (INSTALL DATE, OPERATIONAL DATE, DEVIATION FROM MANUFACTURE SPEC):

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COMMENCEMENT AND DURATION OF EARTH WORK, FINAL GRADING, CREATION OF SOIL AND VEGETATION STOCKPILES REQUIRING STABILIZATION:

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CESSATION OF CONSTRUCTION ACTIVITIES WITHIN A PORTION OF THE SITE (TEMPORARY AND PERMANENT):

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FINAL AND TEMPORARY STABILIZATION AREAS OF EXPOSED SOILS:

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REMOVAL OF TEMPORARY STORMWATER CHANNELS, CONTROL MEASURES, CONSTRUCTION EQUIPMENT AND VEHICLES, AND CESSATION OF ANY POLLUTANT-GENERATING ACTIVITIES:

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**NOTE:**  
SW3P NARRATIVE TO ACCOMPANY SITE MAP AND PROJECT DESIGN SHEETS THAT INCLUDE IDENTIFYING EARTH DISTURBING ACTIVITIES, EXISTING AND PROPOSED SLOPES OF GRADING ACTIVITIES, CONSTRUCTION AND SOIL STOCKPILE LOCATIONS, SURFACE WATER CROSSINGS, DESIGNATED EXIST POINTS, STRUCTURES AND IMPERVIOUS SURFACES TO BE CONSTRUCTED, CONSTRUCTION SUPPORT ACTIVITY AREAS, LOCATION OF ALL SURFACE WATERS IN VICINITY, BOUNDARIES OF NATURAL BUFFERS, AREAS OF FEDERALLY LISTED CRITICAL HABITAT, TOPOGRAPHY, VEGETATIVE COVER AND DRAINAGE PATTERNS OF FLOWS ONTO, OVER AND FROM THE PROJECT SITE, STORMWATER AND ALLOWABLE NON STORMWATER DISCHARGE LOCATIONS, ALL STORM INLETS ON AND IN VICINITY OF THE SITE, LOCATION OF ALL POTENTIAL POLLUTANT GENERATING ACTIVITIES, LOCATION OF STORMWATER CONTROL MEASURES, AND LOCATIONS WHERE POLYMERS, FLOCCULANTS, AND OTHER CHEMICALS WILL BE USED AND STORED.

<b>OCTOBER 2014</b>			
<b>CITY OF SAN ANTONIO</b> PUBLIC WORKS DEPARTMENT			
<b>STORM WATER POLLUTION PREVENTION PLAN (SWP3) NARRATIVE SHEET 1 OF 2</b>			
70% % SUBMITTAL	PROJECT NO.:	23-03763	DATE: 1/20/2023
DRWN. BY: ES	DSGN. BY: JAS	CHKD. BY: JH	SHEET NO.: 306 OF 521

## BEST MANAGEMENT PRACTICES

### 1. NATURAL BUFFER SECTION:

- \_\_\_\_\_ 50-FOOT (OR MORE) BUFFER ZONE  
 \_\_\_\_\_ LESS THAN 50-FOOT BUFFER ZONE  
 \_\_\_\_\_ LINEAR CONSTRUCTION PROJECT; DOES NOT REQUIRE 50-FOOT BUFFER ZONE

### 2. GENERAL REQUIREMENTS:

1. INSTALL PERIMETER CONTROLS TO RETAIN SEDIMENT ON-SITE TO THE EXTENT PRACTICABLE WITH CONSIDERATION FOR LOCAL TOPOGRAPHY, SOIL TYPE, AND RAINFALL.
2. MINIMIZE SEDIMENT TRACK OUT ONTO OFF-SITE STREETS, OR OTHER PAVED AREAS AND SIDEWALKS. RESTRICT VEHICLE USE TO PROPERTY THROUGH DESIGNATED ACCESS POINTS. USE APPROPRIATE STABILIZATION MEASURES. REMOVE SEDIMENT FROM TIRES, WHEN PRACTICABLE.
3. CONTROL DISCHARGES FROM STOCKPILED SEDIMENT BY:
  - 1) LOCATING PILES OUTSIDE OF NATURAL BUFFERS AND PHYSICALLY SEPARATING PILES FROM OTHER STORMWATER CONTROLS
  - 2) USE A TEMPORARY PERIMETER SEDIMENT BARRIER
  - 3) PROVIDE COVER OR TEMPORARY STABILIZATION, WHERE PRACTICABLE
  - 4) USE DRY CLEAN UP METHODS TO REMOVE ACCUMULATED SEDIMENT FROM PAVED AREAS
  - 5) PROTECT FROM WIND WHERE FEASIBLE
4. MINIMIZE DUST THROUGH THE APPROPRIATE APPLICATION OF WATER.
5. MINIMIZE SLOPE STEEPNESS OF EXPOSED SOILS THROUGH PHASED DISTURBANCE AND IMPLEMENTATION OF BMP'S.
6. MINIMIZE SOIL COMPACTION IN AREAS WHERE RE-VEGETATION IS PLANNED BY RESTRICTING VEHICLE USE AND CONDITION SOIL PRIOR TO RE-VEGETATION.
7. PROTECT STORM DRAIN INLETS PRIOR TO LAND DISTURBANCE.

### 3. SEDIMENTATION BASINS:

- SEDIMENTATION BASINS (CHECK ALL THAT APPLY)
- \_\_\_\_\_ DRAINAGE AREA > 10 ACRES (SEDIMENTATION BASIN DESIGN ON SHEET \_\_\_\_\_)
- \_\_\_\_\_ DRAINAGE AREA > 10 ACRES (SEDIMENTATION BASIN INFEASIBLE-ALTERNATE EQUIVALENT CONTROL DESIGN ON SHEET \_\_\_\_\_)
- \_\_\_\_\_ DRAINAGE AREA < 10 ACRES (SEDIMENT TRAPS AND BASINS)
- \_\_\_\_\_ DRAINAGE AREA < 10 ACRES (PERIMETER CONTROLS)

### 4. DEWATERING PRACTICES:

1. DO NOT DISCHARGE VISIBLE FLOATING SOLIDS OR FOAM; USE AN OIL-WATER SEPARATOR OR SUITABLE FILTRATION DEVICE THAT IS DESIGNED TO REMOVE OIL, GREASE, OR OTHER PRODUCTS IF DEWATERING WATER IS FOUND TO CONTAIN THESE MATERIALS.
2. UTILIZE VEGETATED UPLAND AREAS OF THE SITE TO INFILTRATE DEWATERING WATER BEFORE DISCHARGE, WHERE FEASIBLE.
3. DISCHARGE DEWATERING WATER ONTO A VELOCITY DISSIPATION DEVICE.
4. MANAGE BLACKWASH WATER AS A WASTE OR RETURN IT TO THE BEGINNING OF THE TREATMENT PROCESS.
5. REPLACE AND CLEAN FILTER MEDIA USED IN DEWATERING DEVICE ACCORDING TO MANUFACTURE'S SPECIFICATIONS.
6. DO NOT USE TREATMENT CHEMICALS WITHOUT PRIOR WRITTEN CONSENT FROM COSA. A WRITTEN MANAGEMENT PLAN IS REQUIRED FOR USE OF TREATMENT CHEMICALS.

### 5. NON STORM WATER DISCHARGES:

- THE FOLLOWING NON-STORMWATER DISCHARGES ARE AUTHORIZED FOR DISCHARGE BY THE GENERAL PERMIT. PROJECT SITE MAPS MUST REFLECT THE LOCATIONS OF ANY NON-STORMWATER DISCHARGES. NON-STORMWATER DISCHARGES MUST BE MANAGED BY STORMWATER BMP'S TO PROTECT RECEIVING WATER QUALITY.
1. DISCHARGES FROM FIRE FIGHTING ACTIVITIES AND/OR FIRE HYDRANT FLUSHING.
  2. VEHICLE, EXTERNAL BUILDING, AND PAVEMENT WASH WATER WHERE DETERGENTS AND SOAPS ARE NOT USED AND WHERE SPILLS OR LEAKS OF TOXIC OR HAZARDOUS MATERIALS HAVE NOT OCCURRED (UNLESS ALL SPILLED MATERIAL HAS BEEN REMOVED).
  3. PLAIN WATER USED TO CONTROL DUST.
  4. PLAIN WATER ORIGINATING FROM POTABLE WATER SOURCES.
  5. UNCONTAMINATED GROUNDWATER, SPRING WATER, OR ACCUMULATED STORMWATER.
  6. FOUNDATION OR FOOTING DRAINS WHERE FLOWS ARE NOT CONTAMINATED WITH PROCESS MATERIALS SUCH AS SOLVENTS.
  7. UNCONTAMINATED AIR CONDITIONING CONDENSATE.
  8. LAWN WATERING AND SIMILAR DRAINAGE.
  9. OTHER \_\_\_\_\_

### 6. PROHIBITED STORM WATER DISCHARGES:

1. WASTEWATER FROM WASH OUT OF CONCRETE TRUCKS.
2. WASTEWATER FROM WASH OUT AND CLEAN OUT OF STUCCO, PAINT, FORM RELEASE OILS, CUTTING COMPOUNDS, AND OTHER CONSTRUCTION MATERIALS.
3. FUELS, OILS, OR OTHER POLLUTANTS USED IN VEHICLE AND EQUIPMENT OPERATIONS AND MAINTENANCE.
4. SOAPS OR SOLVENTS USED IN VEHICLE AND EQUIPMENT WASHING.

NOTE - DO NOT USE TREATMENT CHEMICALS WITHOUT PRIOR WRITTEN CONSENT FROM COSA. A WRITTEN MANAGEMENT PLAN IS REQUIRED FOR USE OF TREATMENT CHEMICALS.

7. CONCRETE TRUCK WASH WATER DISCHARGES ON THE SITE SHOULD BE PROHIBITED OR MINIMIZED. IF ALLOWED BY THE ENGINEER, THEY MUST BE MANAGED IN A MANNER SO AS NOT TO CONTAMINATE SURFACE WATER. THEY MUST NOT BE LOCATED IN AREAS OF CONCENTRATED FLOW. CONCRETE TRUCK WASH-OUT LOCATIONS MUST BE SHOWN ON THE SW3P LAYOUT AND INCLUDED IN THE INSPECTIONS. HAZARDOUS MATERIAL SPILL/LEAK SHALL BE PREVENTED OR MINIMIZED. AT A MINIMUM, THIS INCLUDES ASPHALT PRODUCTS, FUELS, OILS, LUBRICANTS, SOLVENTS, PAINTS, ACIDS, CONCRETE CURING COMPOUNDS, AND CHEMICAL ADDITIVES FOR SOIL STABILIZATION. BMP'S SHALL BE IMPLEMENTED TO THE STORAGE OF THESE PRODUCTS. ALL SPILLS MUST BE CLEANED AND DISPOSED PROPERLY AND REPORTED TO THE ENGINEER. REPORT ANY RELEASE AT OR ABOVE THE REPORTABLE QUANTITY DURING A 24 HOUR PERIOD TO THE NATIONAL RESPONSE CENTER AT 1-800-424-8802.

### 8. MATERIAL MANAGEMENT PRACTICES:

CONTRACTOR MUST MAINTAIN AN INVENTORY OF CONSTRUCTION AND WASTE MATERIALS EXPECTED TO BE STORED ON-SITE AND A DESCRIPTION OF CONTROLS IMPLEMENTED TO MINIMIZE POLLUTANTS FROM THESE SOURCES.

### 9. COMPLIANCE WITH APPROVED STATE AND LOCAL PLANS:

THIS SW3P SHALL CONFORM TO APPLICABLE LOCAL RULES AND REGULATIONS FOR WATER QUALITY, INCLUDING BUT NOT LIMITED TO THOSE ESTABLISHED BY COSA, SAWS, BEXAR COUNTY, EAA, OR OTHERS, AS APPLICABLE.

## OTHER REQUIREMENTS AND PRACTICES

### 1. MAINTENANCE:

ALL EROSION AND SEDIMENT CONTROLS SHALL BE MAINTAINED IN GOOD WORKING ORDER. IF A REPAIR IS NECESSARY, IT SHALL BE PERFORMED BY CLOSE OF THE NEXT DAY FOLLOWING DISCOVERY. RECOMMENDATIONS FOR NEW BMP'S OR SIGNIFICANT REPAIRS TO EXISTING BMP'S MADE BY INSPECTORS OF THIS SWPPP OR BY THE EPA WILL BE INSTALLED WITHIN SEVEN (7) CALENDAR DAYS FROM THE DATE OF INSPECTION OR PRIOR TO THE NEXT RAIN EVENT, WHICHEVER IS SOONER. CORRECTIVE ACTIONS, SUCH AS TEMPORARY BMP'S, SHALL BE IMMEDIATELY TAKEN IN THE EVENT THAT A DISCHARGE OF POLLUTANTS IS DISCOVERED TO MINIMIZE OR PREVENT FURTHER DISCHARGE UNTIL A PERMANENT SOLUTION IS INSTALLED. WHEN CORRECTIVE ACTIONS RESULT IN CHANGES TO STORMWATER CONTROLS OR PROCEDURES, AMEND THE SWPPP WITHIN SEVEN (7) CALENDAR DAYS OF COMPLETING THE CORRECTIVE ACTION WORK. EACH CORRECTIVE ACTION REPORT MUST BE SIGNED AND CERTIFIED BY THE AUTHORIZED SIGNATORY AUTHORITY. KEEP A CURRENT COPY OF ALL CORRECTIVE ACTION REPORTS AT THE SITE OR AT AN EASILY ACCESSIBLE LOCATION. MAINTAIN ALL CORRECTIVE ACTION REPORTS FOR AT LEAST THREE (3) YEARS FROM THE DATE THAT YOUR PERMIT COVERAGE EXPIRES OR IS TERMINATED. DISTURBED AREAS ON WHICH CONSTRUCTION ACTIVITIES HAVE CEASED, TEMPORARILY OR PERMANENTLY, SHALL BE STABILIZED WITHIN 14 CALENDAR DAYS UNLESS THEY ARE SCHEDULED TO AND DO RESUME WITHIN 21 CALENDAR DAYS. THE AREAS ADJACENT TO CREEKS AND DRAINAGE WAYS SHALL HAVE PRIORITY FOLLOWED BY PROTECTING STORM WATER INLETS.

### 2. INSPECTIONS:

FOR AREAS OF THE CONSTRUCTION SITE THAT HAVE NOT BEEN FINALLY STABILIZED, AREAS USED FOR STORAGE OF MATERIALS, STRUCTURAL CONTROL MEASURES, AND LOCATION WHERE VEHICLES ENTER OR EXIT THE SITE. PERSONNEL PROVIDED BY THE PERMITTEE AND FAMILIAR WITH THE SW3P, AND CERTIFIED IN ACCORDANCE WITH COSA ORDINANCE NO. 2019-02-14-0123, SEC. 34-805 (q) MUST INSPECT DISTURBED AREAS AT LEAST ONCE EVERY (7) CALENDAR DAYS ON A SPECIFICALLY DEFINED DAY. AN INSPECTION AND MAINTENANCE REPORT SHALL BE PREPARED FOR EACH INSPECTION AND THE CONTROLS SHALL BE REVISED ON THE SW3P WITHIN SEVEN (7) CALENDAR DAYS FOLLOWING THE INSPECTION. IF DISCHARGES OCCUR TO SEDIMENT OR NUTRIENT-IMPAIRED WATERS, OR TO OTHER SITES WITH IMPAIRMENT STATUS, INSPECTIONS MUST TAKE PLACE ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF A STORM EVENT OF 0.25 INCHES OR GREATER. INSPECTION REPORTS MUST BE COMPLETED WITHIN 24 HOURS OF COMPLETING ANY SITE INSPECTION.

### 3. WASTE MATERIALS:

ALL NON-HAZARDOUS MUNICIPAL WASTE MATERIALS SUCH AS LITTER, RUBBISH, AND GARBAGE LOCATED ON OR ORIGINATING FROM THE PROJECT SHALL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER PROVIDED BY THE CONTRACTOR. THE DUMPSTER SHALL BE EMPTIED AS NECESSARY OR AS REQUIRED BY LOCAL REGULATION AND THE TRASH SHALL BE HAULED TO A PERMITTED DISPOSAL FACILITY. THE BURYING OF NON-HAZARDOUS MUNICIPAL WASTE ON THE PROJECT SHALL NOT BE PERMITTED. CONSTRUCTION MATERIAL WASTE SITES, STOCKPILES, AND HAUL ROADS SHALL BE CONSTRUCTED TO MINIMIZE AND CONTROL THE AMOUNT OF SEDIMENT THAT MAY ENTER RECEIVING WATERS. CONSTRUCTION MATERIALS WASTE SITES SHALL NOT BE LOCATED IN ANY WETLAND, WATER BODY, OR STREAM BED. CONSTRUCTION STAGING AREAS AND VEHICLE MAINTENANCE AREAS SHALL BE CONSTRUCTED IN A MANNER TO MINIMIZE THE RUNOFF OF POLLUTANTS.

### 4. OFFSITE VEHICLE TRACKING:

OFFSITE VEHICLE TRACKING OF SEDIMENT AND THE GENERATION OF DUST MUST BE MINIMIZED. EXCESS SEDIMENTS ON ROAD SHALL BE REMOVED ON A REGULAR BASIS AS DIRECTED/APPROVED BY THE ENGINEER.

### 5. STAFF TRAINING REQUIREMENTS:

OPERATOR STAFF MUST RECEIVE TRAINING PRIOR TO COMMENCEMENT OF EARTH DISTURBING OR POLLUTANT GENERATING ACTIVITIES, WHICHEVER COMES FIRST. OPERATORS ARE NOT REQUIRED TO PROVIDE OR DOCUMENT FORMAL TRAINING FOR SUBCONTRACTORS OR OTHER OUTSIDE SERVICE PROVIDERS, BUT THEY MUST ENSURE THAT SUCH PERSONNEL UNDERSTAND THE PERMIT REQUIREMENTS THAT MAY BE AFFECTED BY THEIR WORK.

### 6. SUPPORTING CONCRETE BATCH PLANTS:

THE CONTRACTOR SHOULD DEVELOP A SEPARATE SW3P FOR OPERATIONS ASSOCIATED WITH A SUPPORTING CONCRETE BATCH PLANT IN CONFORMANCE WITH THE TCEQ TPDES CONSTRUCTION GENERAL PERMIT, PART IV RELATING TO STORM WATER RUNOFF FROM CONCRETE BATCH PLANTS. THIS SW3P DOES NOT PROVIDE ADEQUATE CONTROLS FOR THIS ACTIVITY.

### 7. SANITARY WASTE:

PORT-A-POT (PLACED OUTSIDE OF FLOODPLAIN)

### 8. OFFSITE EXCAVATION SOURCE LOCATION:

CONTRACTOR TO REMOVE AND PLACE SPOILS DAILY.

### 9. OFFSITE FILL SOURCE LOCATION:

CONTRACTOR TO REMOVE AND PLACE SPOILS DAILY.

### 10. OTHER:

CERTIFICATION THAT SITE DISTURBANCE AND/OR DISCHARGES WILL NOT EFFECT LISTED ENDANGERED SPECIES AND THEIR HABITAT. WHAT METHOD IS USED TO SATISFY THE ENDANGERED SPECIES REQUIREMENTS? SEE THE EPIC SHEET FOR ADDITIONAL INFORMATION.

## SPILL PREVENTION AND RESPONSE PROCEDURES (CONTRACTOR TO COMPLETE)

1. IDENTIFY PROCEDURES FOR STOPPING, CONTAINING, AND CLEANING UP SPILLS, LEAKS AND OTHER RELEASE. \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

2. IDENTIFY THE NAME OR POSITION OF THE PERSON RESPONSIBLE FOR DETECTION AND RESPONSE OF SPILLS AND LEAKS. \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

3. IDENTIFY PROCEDURES FOR NOTIFICATION OF APPROPRIATE FACILITY PERSONNEL, REGULATORY AGENCIES, ETC. \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

### REMARKS:

DISPOSAL AREAS, STOCKPILES AND HAUL ROADS SHALL BE CONSTRUCTED IN A MANNER THAT WILL MINIMIZE AND CONTROL THE AMOUNT OF SEDIMENT THAT ENTERS RECEIVING WATERS. DISPOSAL AREAS SHALL NOT BE LOCATED IN ANY WETLAND, BODY OF WATER, STREAMBED, OR FLOODPLAIN. CONSTRUCTION STAGING AREAS AND VEHICLE MAINTENANCE AREAS SHALL BE CONSTRUCTED BY THE CONTRACTOR IN A MANNER TO MINIMIZE THE RUNOFF OF POLLUTANTS. ALL WATERWAYS SHALL BE CLEARED AS SOON AS POSSIBLE OF TEMPORARY EMBANKMENT, TEMPORARY BRIDGES, MATTING, FALSEWORK, PILING DEBRIS, OR OTHER OBSTRUCTION PLACED DURING CONSTRUCTION OPERATIONS THAT ARE NOT PART OF THE FINISHED WORK.

OCTOBER 2014

**CITY OF SAN ANTONIO**  
PUBLIC WORKS DEPARTMENT

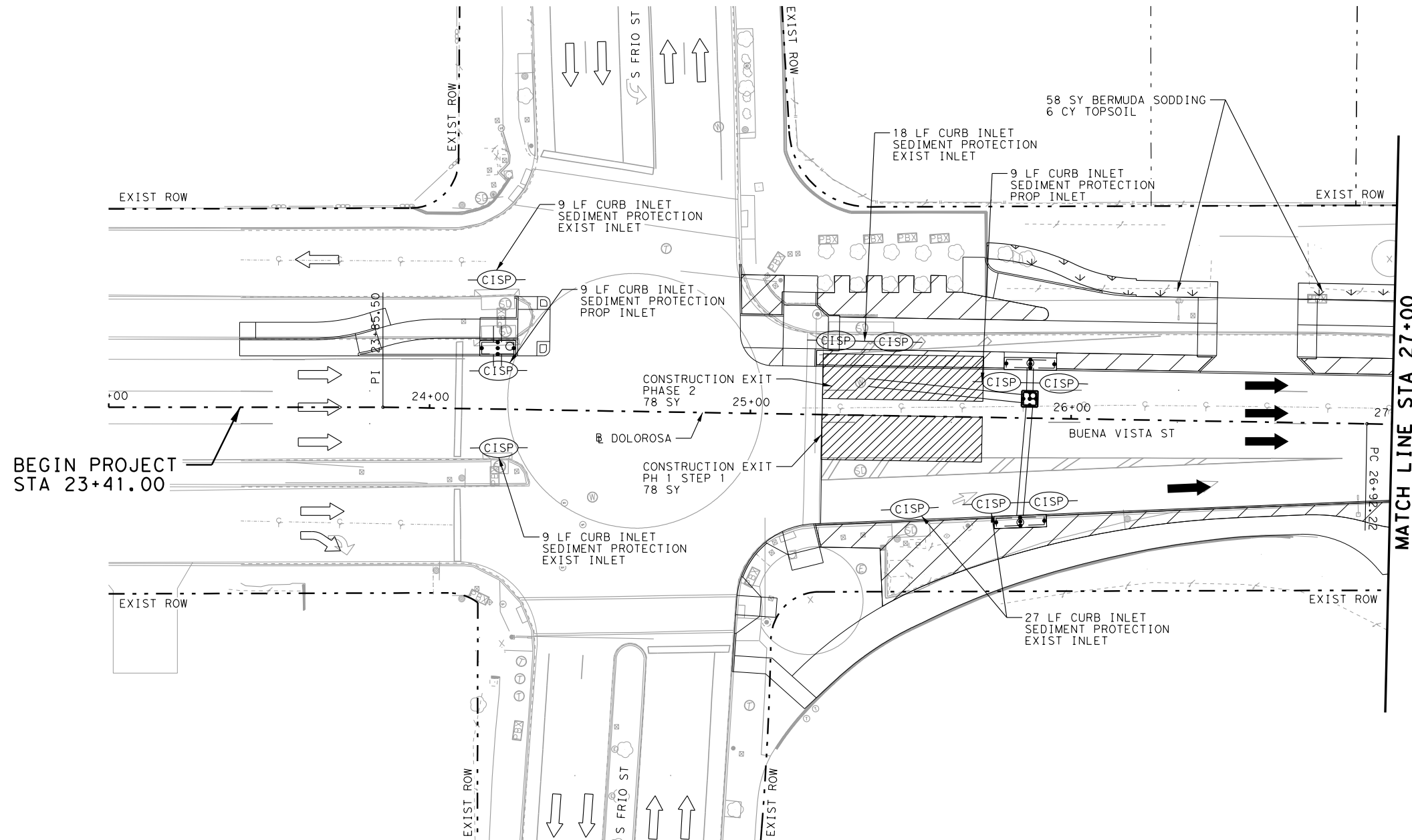
**STORM WATER POLLUTION  
PREVENTION PLAN (SWP3) NARRATIVE  
SHEET 2 OF 2**

70% % SUBMITTAL	PROJECT NO.:	23-03763	DATE:	1/20/2023
DRWN. BY: ES	DSGN. BY: JAS	CHKD. BY: JH	SHEET NO.: 307 OF 521	

ITEM	DESCRIPTION	UNIT	QTY
515.1	TOPSOIL	CY	6
516.1	BERMUDA SODDING	SY	58
540.6	CONSTRUCTION EXITS	SY	156
540.8	SANDBAGS FOR EROSION CONTROL	LF	-
7012-6001	CURB INLET SEDIMENT PROTECTION	LF	90

Plotted on: 1/20/2023

Design File name: K:\COSA Dolorosa\ENVIRONMENTAL\Dolorosa\_SW3P\_01.dgn



**LEGEND**

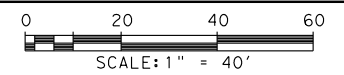
- DRAINAGE FLOW ARROWS
- SEDIMENT CONTROL FENCE
- CURB INLET GRAVEL FILTER
- GRAVEL FILTER BAGS
- EXISTING DIRECTION OF TRAFFIC
- PROPOSED DIRECTION OF TRAFFIC
- PERMANENT SODDING

NOTES:  
1.

**PRELIMINARY**  
FOR INTERIM REVIEW ONLY

By: MICHAEL G. RAMIREZ P.E. 133983  
DATE 1/20/2023

**CAMACHO-HERNANDEZ & ASSOCIATES, LLC**  
NOT FOR CONSTRUCTION, BIDDING, OR PERMIT PURPOSES



REV. NO.	DATE	DESCRIPTION	BY
<b>CAMACHO-HERNANDEZ &amp; ASSOCIATES, LLC</b> 415 EMBASSY OAKS - SUITE 205 SAN ANTONIO, TX. 78216 OFFICE: (210) 341-6200 FAX: (210) 341-6300 FIRM NUMBER: F-8478			

**PAPE-DAWSON ENGINEERS**

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS  
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000  
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

CITY OF SAN ANTONIO  
**PUBLIC WORKS DEPARTMENT**

DOLOROSA  
**SW3P LAYOUTS**

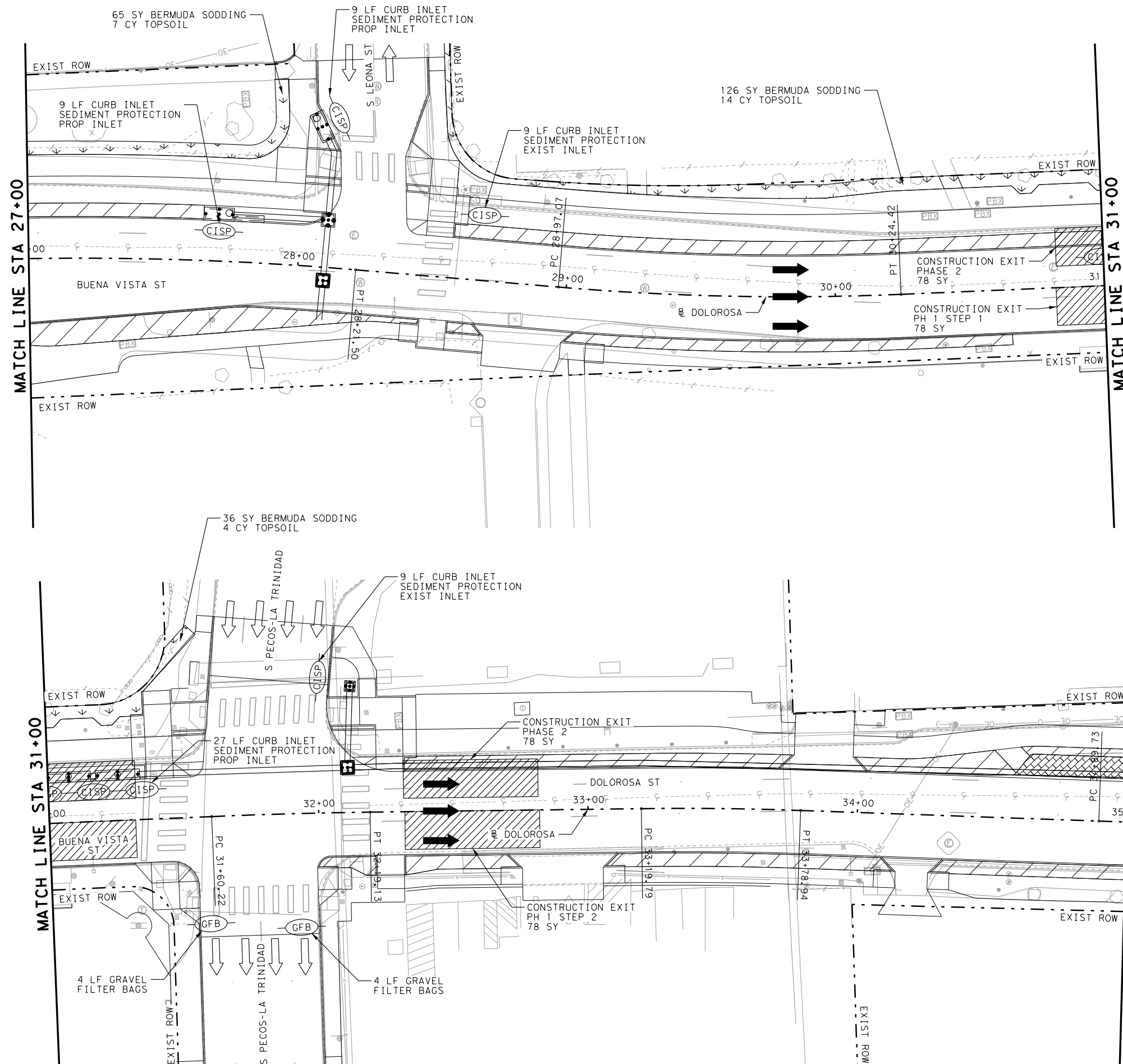
BEGIN TO STA 27+00

SHEET 1 OF 5

DESIGN	CHECKED	DRAWN	PROJECT NO.	SUBMITTAL	SHEET NO.
MGR	JH	HR	23-03763	70%	308

Plotted on: 1/20/2023

Design File name: K:\COSA Dolorosa\ENVIRONMENTAL\Dolorosa\_SW3P\_02.dgn



ITEM	DESCRIPTION	UNIT	QTY
515.1	TOPSOIL	CY	25
516.1	BERMUDA SODDING	SY	227
540.6	CONSTRUCTION EXITS	SY	312
540.8	SANDBAGS FOR EROSION CONTROL	LF	8
7012-6001	CURB INLET SEDIMENT PROTECTION	LF	63

**LEGEND**

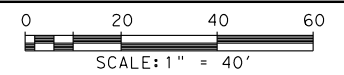
- DRAINAGE FLOW ARROWS
- SEDIMENT CONTROL FENCE
- CURB INLET GRAVEL FILTER
- GRAVEL FILTER BAGS
- EXISTING DIRECTION OF TRAFFIC
- PROPOSED DIRECTION OF TRAFFIC
- PERMANENT SODDING

NOTES:  
1.

**PRELIMINARY**  
FOR INTERIM REVIEW ONLY

By: MICHAEL G. RAMIREZ P.E. 133983  
DATE 1/20/2023

**CAMACHO-HERNANDEZ & ASSOCIATES, LLC**  
NOT FOR CONSTRUCTION, BIDDING, OR PERMIT PURPOSES



REV. NO.	DATE	DESCRIPTION	BY
<b>CAMACHO-HERNANDEZ &amp; ASSOCIATES, LLC</b> 415 EMBASSY OAKS - SUITE 205 SAN ANTONIO, TX. 78216 OFFICE: (210) 341-6200 FAX: (210) 341-6300 FIRM NUMBER: F-8478			

**PAPE-DAWSON ENGINEERS**

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS  
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000  
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

**CITY OF SAN ANTONIO**  
**PUBLIC WORKS DEPARTMENT**

DOLOROSA  
**SW3P LAYOUTS**

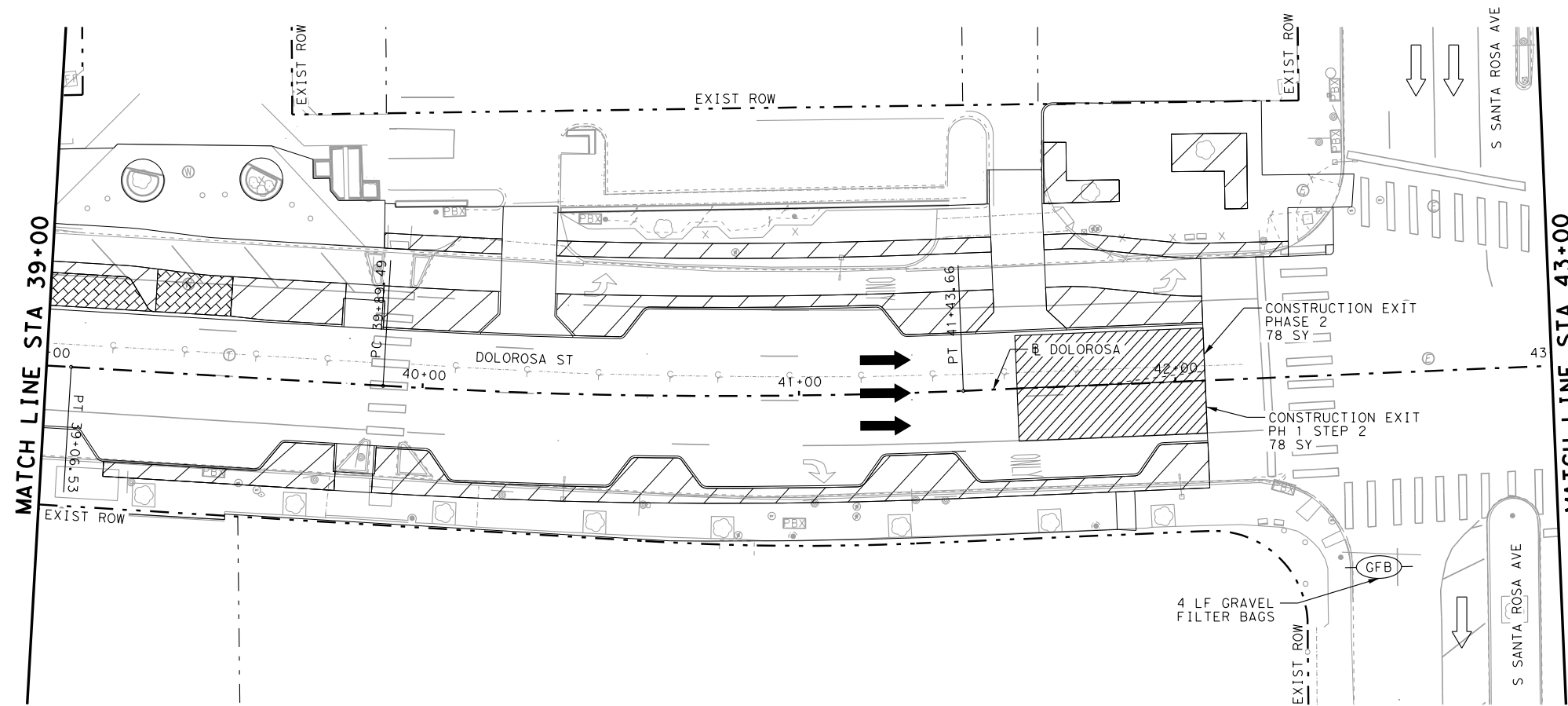
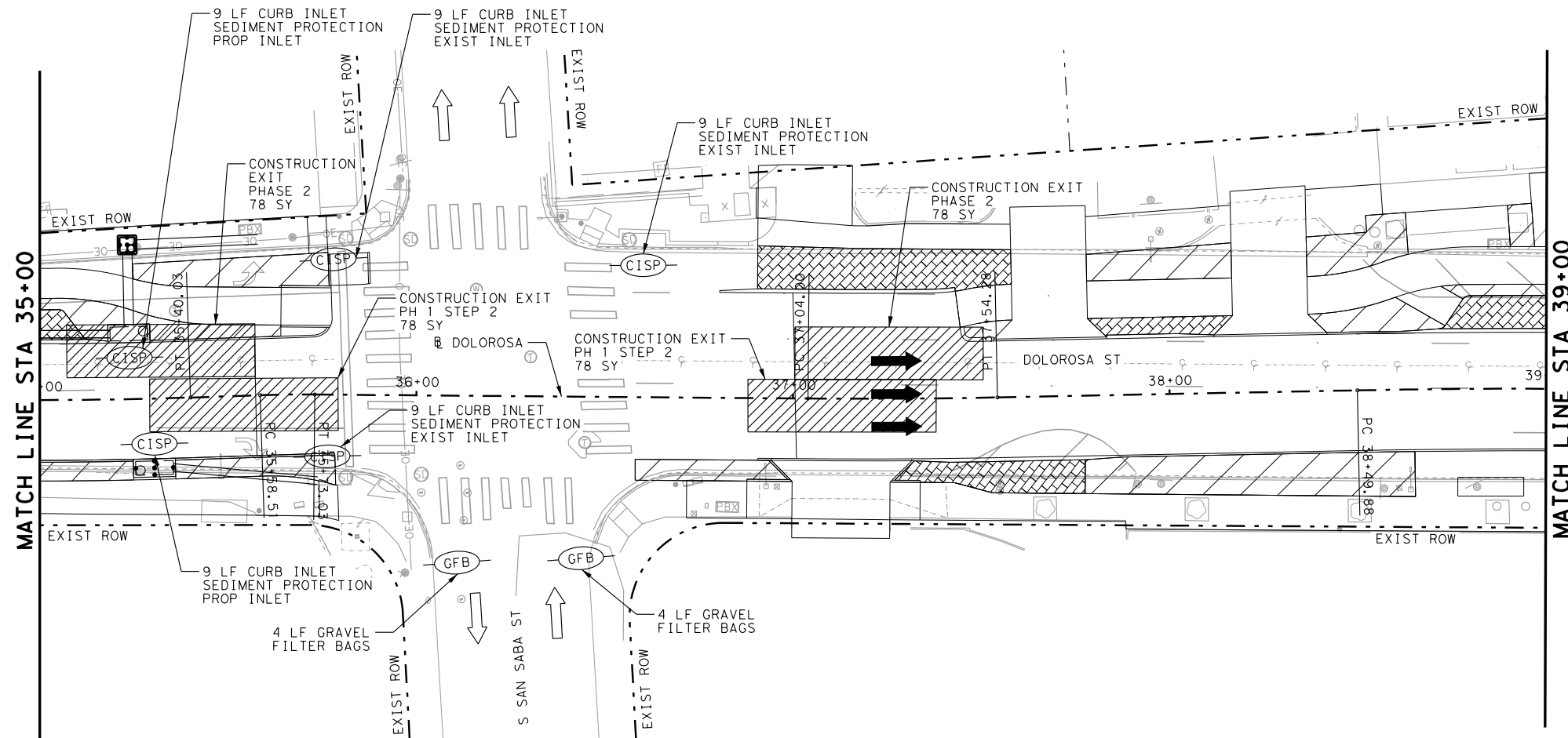
STA 27+00 TO STA 35+00

SHEET 2 OF 5

DESIGN	CHECKED	DRAWN	PROJECT NO.	SUBMITTAL	SHEET NO.
MGR	JH	HR	23-03763	70%	309

Plotted on: 1/20/2023

Design File name: K:\COSA\DoI\rosca\ENVIRONMENTAL\DoI\rosca\_SW3P\_03.dgn



ITEM	DESCRIPTION	UNIT	QTY
515.1	TOPSOIL	CY	-
516.1	BERMUDA SODDING	SY	-
540.6	CONSTRUCTION EXITS	SY	468
540.8	SANDBAGS FOR EROSION CONTROL	LF	12
7012-6001	CURB INLET SEDIMENT PROTECTION	LF	45

**LEGEND**

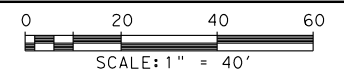
- DRAINAGE FLOW ARROWS
- SEDIMENT CONTROL FENCE
- CURB INLET GRAVEL FILTER
- GRAVEL FILTER BAGS
- EXISTING DIRECTION OF TRAFFIC
- PROPOSED DIRECTION OF TRAFFIC
- PERMANENT SODDING

NOTES:  
1.

**PRELIMINARY**  
FOR INTERIM REVIEW ONLY

By: MICHAEL G. RAMIREZ P.E. 133983  
DATE 1/20/2023

**CAMACHO-HERNANDEZ & ASSOCIATES, LLC**  
NOT FOR CONSTRUCTION, BIDDING, OR PERMIT PURPOSES



REV. NO.	DATE	DESCRIPTION	BY
<b>CAMACHO-HERNANDEZ &amp; ASSOCIATES, LLC</b> 415 EMBASSY OAKS - SUITE 205 SAN ANTONIO, TX. 78216 OFFICE: (210) 341-6200 FAX: (210) 341-6300 FIRM NUMBER: F-8478			

**PAPE-DAWSON ENGINEERS**

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS  
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000  
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

CITY OF SAN ANTONIO  
**PUBLIC WORKS DEPARTMENT**

DOLOROSA  
**SW3P LAYOUTS**

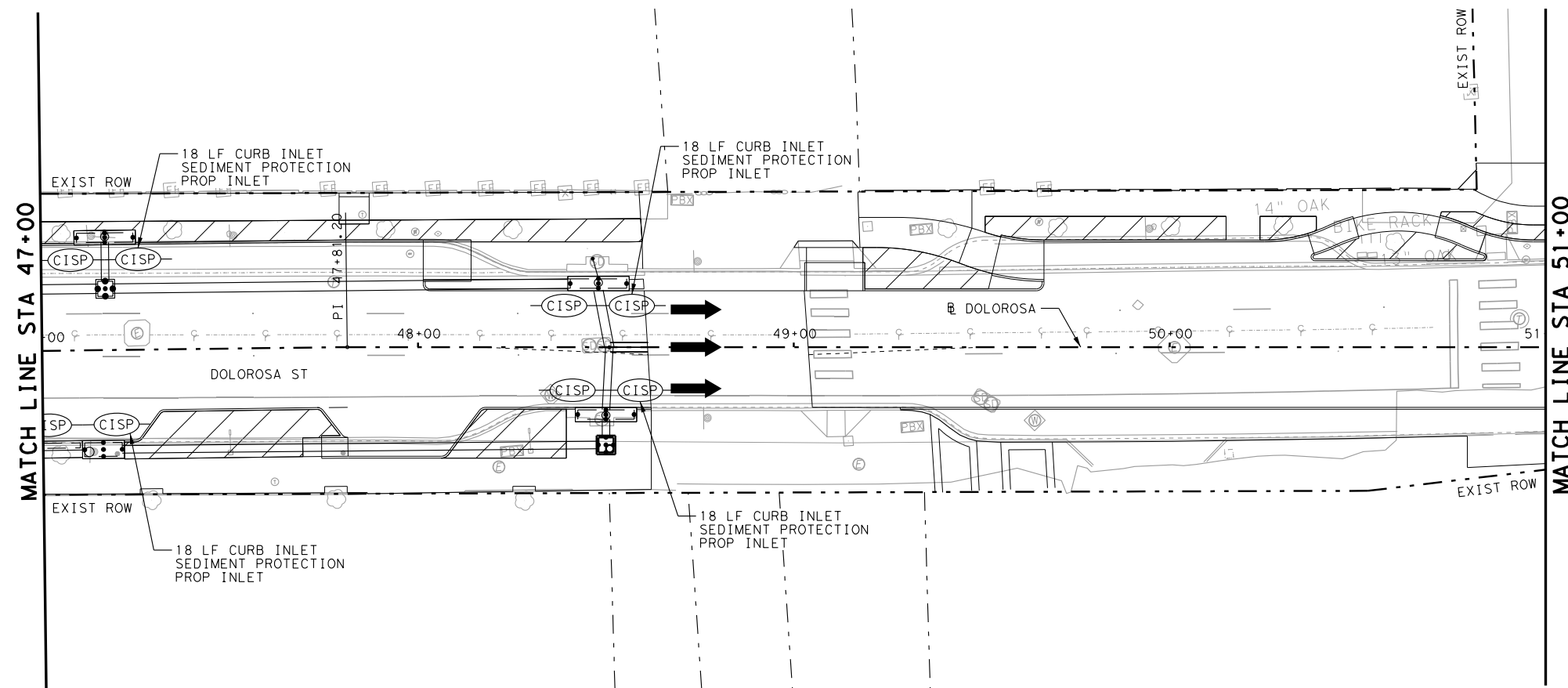
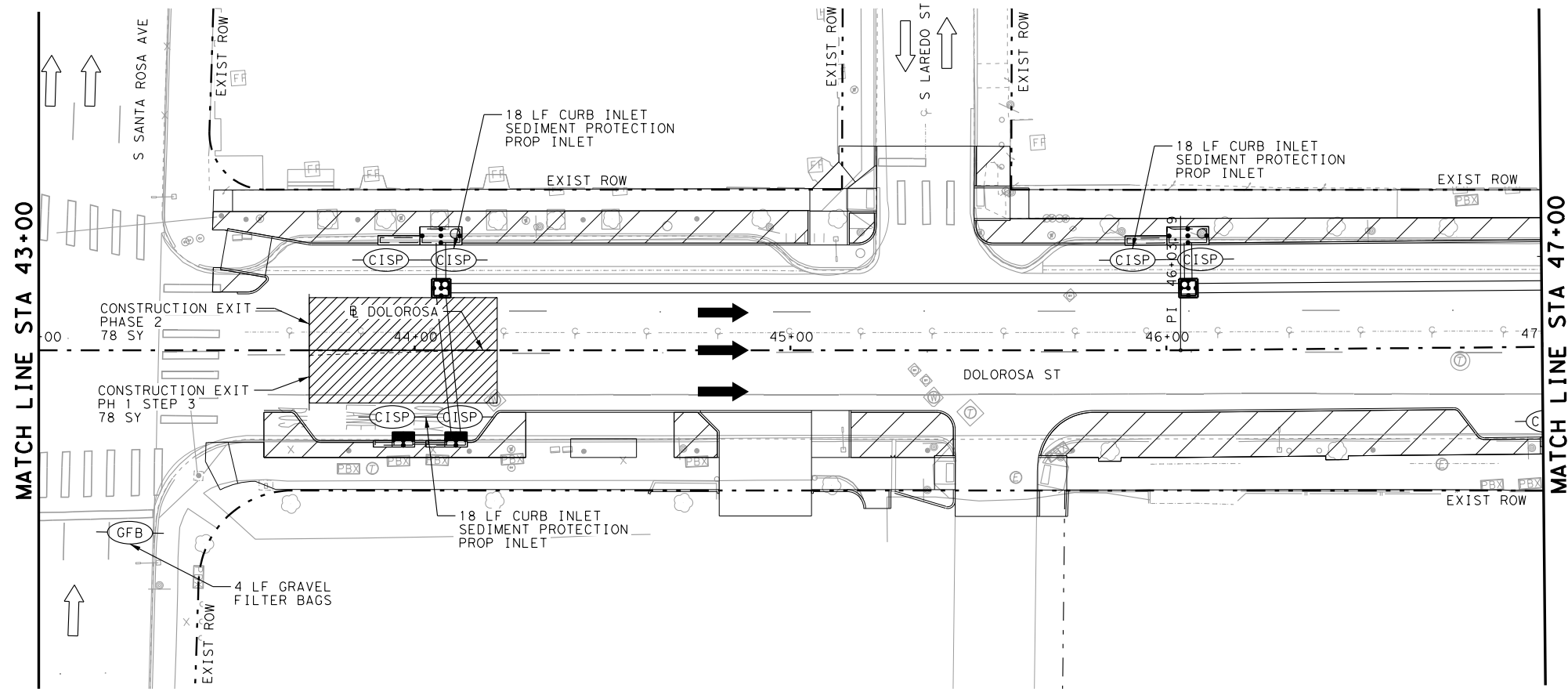
STA 35+00 TO STA 43+00

SHEET 3 OF 5

DESIGN	CHECKED	DRAWN	PROJECT NO.	SUBMITTAL	SHEET NO.
MGR	JH	HR	23-03763	70%	310

Plotted on: 1/20/2023

Design File name: K:\COSA\DoI\rosca\ENVIRONMENTAL\DoI\rosca\_SW3P\_04.dgn



ITEM	DESCRIPTION	UNIT	QTY
515.1	TOPSOIL	CY	-
516.1	BERMUDA SODDING	SY	-
540.6	CONSTRUCTION EXITS	SY	156
540.8	SANDBAGS FOR EROSION CONTROL	LF	4
7012-6001	CURB INLET SEDIMENT PROTECTION	LF	126

**LEGEND**

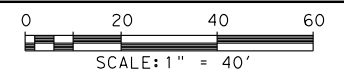
- DRAINAGE FLOW ARROWS
- SEDIMENT CONTROL FENCE
- CURB INLET GRAVEL FILTER
- GRAVEL FILTER BAGS
- EXISTING DIRECTION OF TRAFFIC
- PROPOSED DIRECTION OF TRAFFIC
- PERMANENT SODDING

NOTES:  
1.

**PRELIMINARY**  
FOR INTERIM REVIEW ONLY

By: MICHAEL G. RAMIREZ P.E. 133983  
DATE 1/20/2023

**CAMACHO-HERNANDEZ & ASSOCIATES, LLC**  
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<b>CAMACHO-HERNANDEZ &amp; ASSOCIATES, LLC</b> 415 EMBASSY OAKS - SUITE 205 SAN ANTONIO, TX. 78216 OFFICE: (210) 341-6200 FAX: (210) 341-6300 FIRM NUMBER: F-8478			

**PAPE-DAWSON ENGINEERS**

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS  
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000  
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

CITY OF SAN ANTONIO  
**PUBLIC WORKS DEPARTMENT**

DOLOROSA  
**SW3P LAYOUTS**

STA 43+00 TO STA 51+00

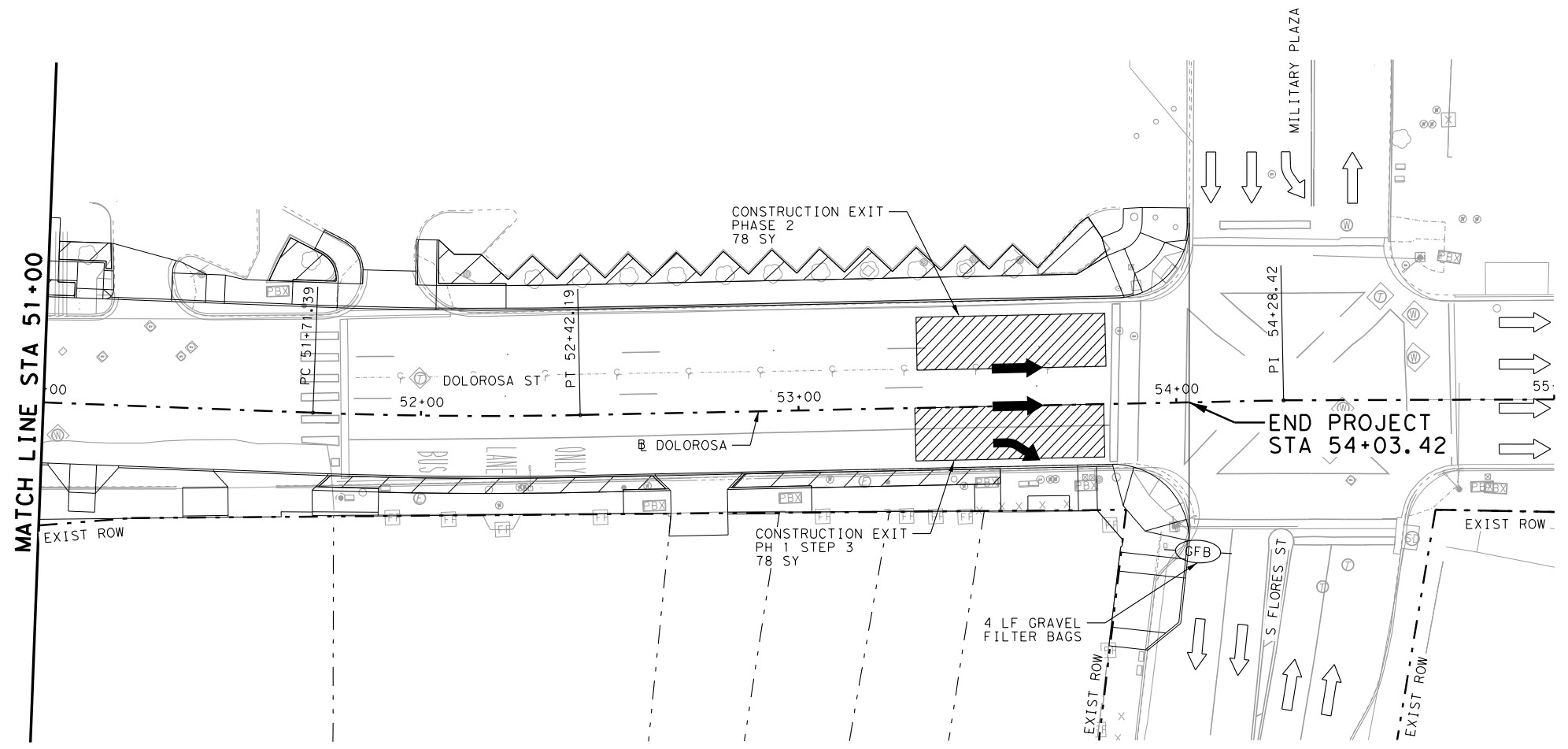
SHEET 4 OF 5

DESIGN	CHECKED	DRAWN	PROJECT NO.	SUBMITTAL	SHEET NO.
MGR	JH	HR	23-03763	70%	311

Plotted on: 1/20/2023

Design File Name: K:\COSA Dolores\ENVIRONMENTAL\Doloresa\_SW3P\_05.dgn

ITEM	DESCRIPTION	UNIT	QTY
515.1	TOPSOIL	CY	-
516.1	BERMUDA SODDING	SY	-
540.6	CONSTRUCTION EXITS	SY	156
540.8	SANDBAGS FOR EROSION CONTROL	LF	4
7012-6001	CURB INLET SEDIMENT PROTECTION	LF	-



**LEGEND**

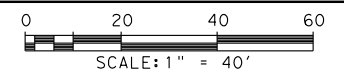
- DRAINAGE FLOW ARROWS
- SEDIMENT CONTROL FENCE
- CURB INLET GRAVEL FILTER
- GRAVEL FILTER BAGS
- EXISTING DIRECTION OF TRAFFIC
- PROPOSED DIRECTION OF TRAFFIC
- PERMANENT SODDING

NOTES:  
1.

**PRELIMINARY**  
FOR INTERIM REVIEW ONLY

By: MICHAEL G. RAMIREZ P.E. 133983  
DATE 1/20/2023

**CAMACHO-HERNANDEZ & ASSOCIATES, LLC**  
NOT FOR CONSTRUCTION, BIDDING, OR PERMIT PURPOSES



REV. NO.	DATE	DESCRIPTION	BY

**CAMACHO-HERNANDEZ & ASSOCIATES, LLC**  
415 EMBASSY OAKS - SUITE 205 SAN ANTONIO, TX. 78216  
OFFICE: (210) 341-6200 FAX: (210) 341-6300  
FIRM NUMBER: F-8478

**PAPE-DAWSON ENGINEERS**

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS  
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000  
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

**CITY OF SAN ANTONIO**  
**PUBLIC WORKS DEPARTMENT**

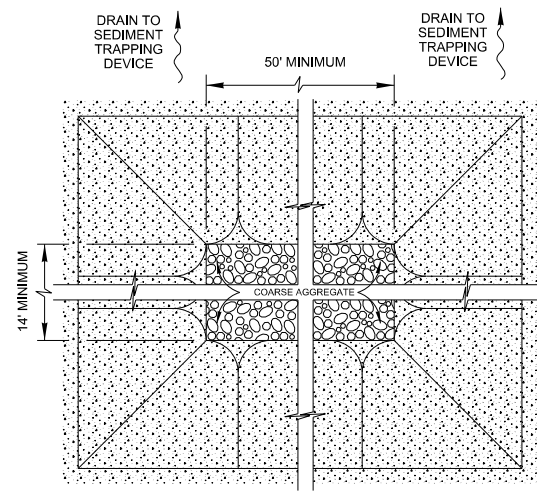
DOLOROSA  
**SW3P LAYOUTS**

STA 51+00 TO END

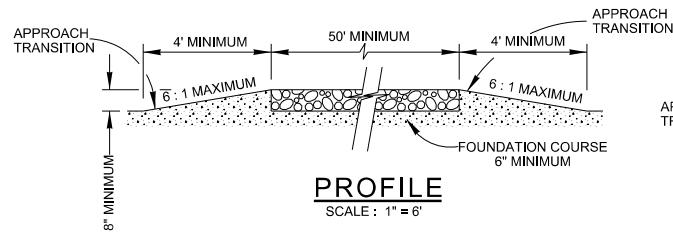
SHEET 5 OF 5

DESIGN	CHECKED	DRAWN	PROJECT NO.	SUBMITTAL	SHEET NO.
MGR	JH	HR	23-03763	70%	312





**PLAN**  
SCALE: 1" = 6'

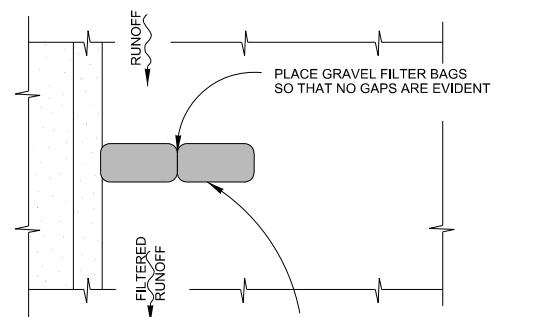


**PROFILE**  
SCALE: 1" = 6'

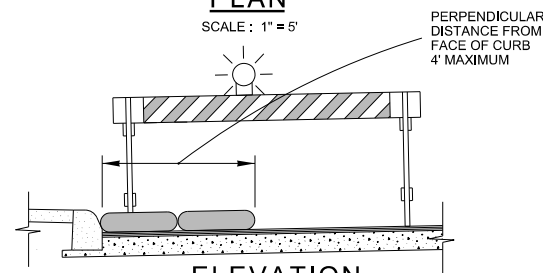
**GENERAL NOTES**

1. THE LENGTH OF THE TYPE 1 CONSTRUCTION EXIT SHALL BE AS INDICATED ON THE PLANS, BUT NOT LESS THAN 50'.
2. THE COARSE AGGREGATE SHOULD BE OPEN GRADED WITH A SIZE OF 4" TO 8".
3. THE APPROACH TRANSITIONS SHOULD BE NO STEEPER THAN 6 : 1 AND CONSTRUCTED AS DIRECTED BY THE ENGINEER.
4. THE CONSTRUCTION EXIT FOUNDATION COURSE SHALL BE FLEXIBLE BASE, BITUMINOUS CONCRETE, PORTLAND CEMENT CONCRETE OR OTHER MATERIAL AS APPROVED BY THE ENGINEER.
5. THE CONSTRUCTION EXIT SHALL BE GRADED TO ALLOW DRAINAGE TO A SEDIMENT TRAPPING DEVICE.
6. THE GUIDELINES SHOWN HEREON ARE SUGGESTIONS ONLY AND MAY BE MODIFIED BY THE ENGINEER.

**CONSTRUCTION EXIT - TYPE 1**



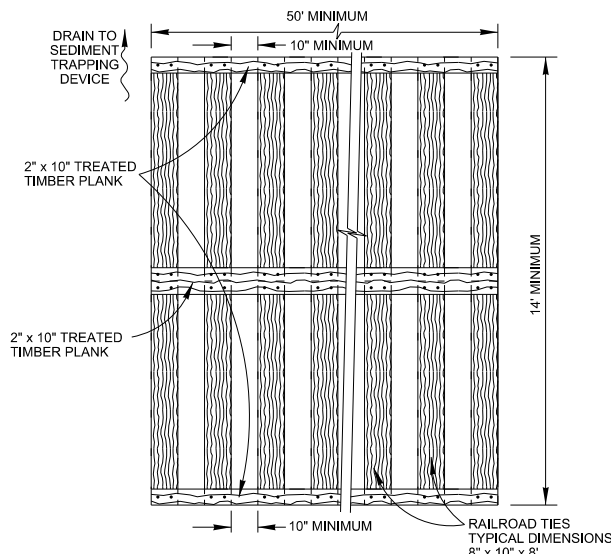
**PLAN**  
SCALE: 1" = 5'



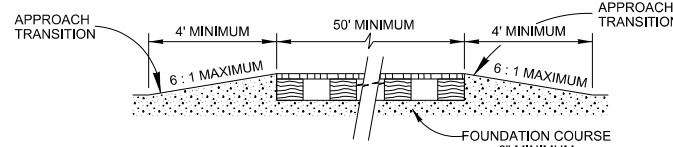
**ELEVATION**  
SCALE: 1" = 5'

NOTE: STRADDLE GRAVEL FILTER BAGS WITH TYPE 1 BARRICADES MOUNTED WITH TYPE "A" FLASHING WARNING LIGHT. SEE BARRICADE CONSTRUCTION SIGN DETAILS. PLACE FLASHING LIGHTS AWAY FROM GUTTER, FLUSH WITH OUTSIDE EDGE OF BAG CONFIGURATION.

**GRAVEL FILTER BAGS**



**PLAN**  
SCALE: 1" = 6'

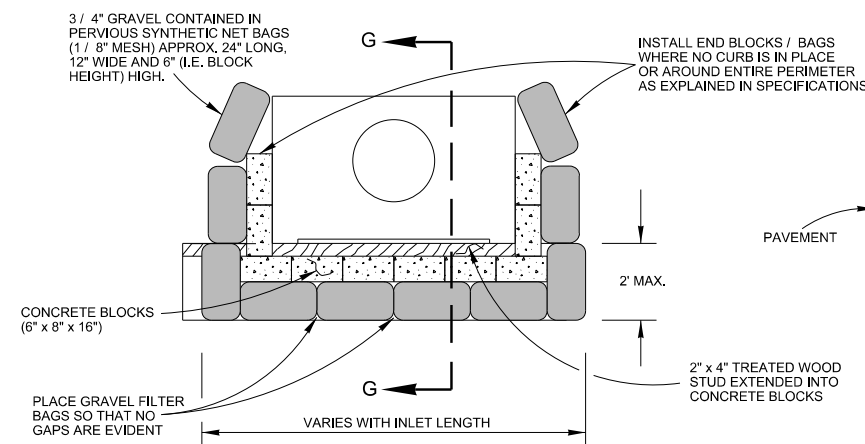


**PROFILE**  
SCALE: 1" = 6'

**GENERAL NOTES**

1. THE LENGTH OF THE TYPE 2 CONSTRUCTION EXIT SHALL BE AS INDICATED ON THE PLANS, BUT NOT LESS THAN 50'.
2. THE TREATED TIMBER PLANKS SHALL BE ATTACHED TO THE RAILROAD TIES WITH 1 / 2" x 6" MIN. LAG BOLTS. OTHER FASTENERS MAY BE USED AS APPROVED BY THE ENGINEER.
3. THE TREATED TIMBER PLANKS SHALL BE #2 GRADE MIN., AND SHOULD BE FREE FROM LARGE AND LOOSE KNOTS.
4. THE APPROACH TRANSITIONS SHOULD BE NO STEEPER THAN 6 : 1 AND CONSTRUCTED AS DIRECTED BY THE ENGINEER.
5. THE CONSTRUCTION EXIT FOUNDATION COURSE SHALL BE FLEXIBLE BASE, BITUMINOUS CONCRETE, PORTLAND CEMENT CONCRETE OR OTHER MATERIAL AS APPROVED BY THE ENGINEER.
6. THE CONSTRUCTION EXIT SHOULD BE GRADED TO ALLOW DRAINAGE TO A SEDIMENT TRAPPING DEVICE.
7. THE GUIDELINES SHOWN HEREON ARE SUGGESTIONS ONLY AND MAY BE MODIFIED BY THE ENGINEER.

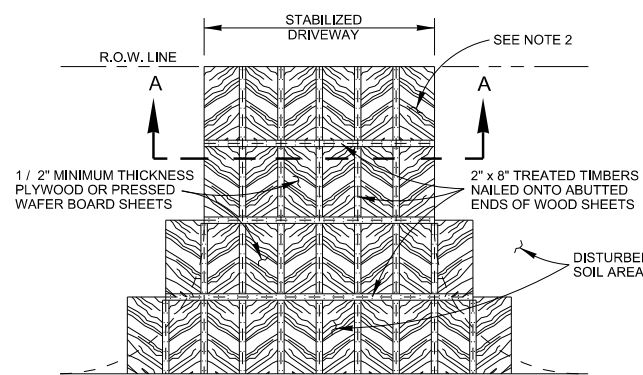
**CONSTRUCTION EXIT - TYPE 2**



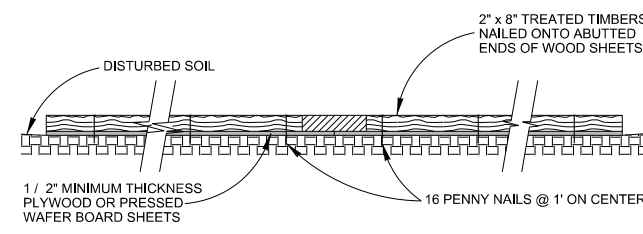
**PLAN**  
SCALE: 1" = 5'

NOTE: GRAVEL FILTERS CAN BE USED ON PAVEMENT OR BARE GROUND.

**CURB INLET GRAVEL FILTER**



**PLAN**  
SCALE: 1" = 20'

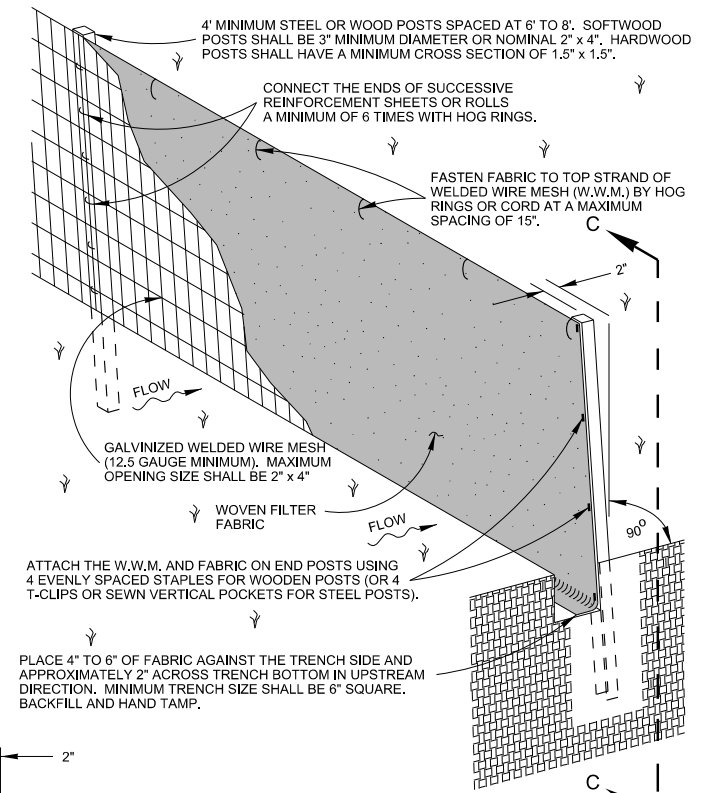


**SECTION A-A**  
SCALE: 1" = 2'

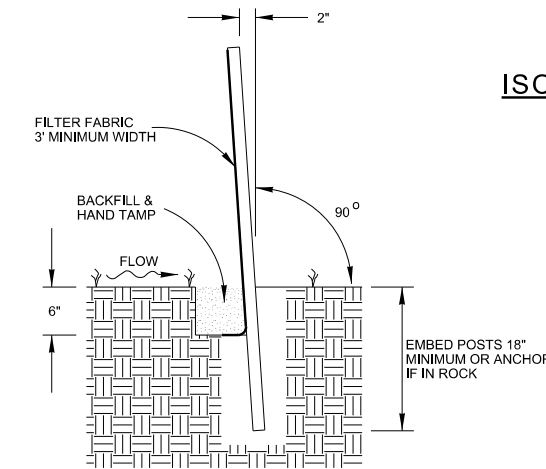
**GENERAL NOTES**

1. THE LENGTH OF THE TYPE 3 CONSTRUCTION EXIT SHALL BE AS INDICATED ON THE PLANS, OR AS DIRECTED BY THE ENGINEER.
2. THE TYPE 3 CONSTRUCTION EXIT MAY BE CONSTRUCTED FROM OPEN GRADED CRUSHED STONE WITH A SIZE OF 2 TO 4 INCHES SPREAD A MINIMUM OF 4 INCHES THICK TO THE LIMITS SHOWN ON THE PLANS.
3. THE TREATED TIMBER PLANKS SHALL BE #2 GRADE MIN., AND SHOULD BE FREE FROM LARGE AND LOOSE KNOTS.
4. THE GUIDELINES SHOWN HEREON ARE SUGGESTIONS ONLY AND MAY BE MODIFIED BY THE ENGINEER.

**CONSTRUCTION EXIT - TYPE 3**



**ISOMETRIC VIEW**  
SCALE: 1" = 2'



**SECTION C-C**  
SCALE: 1" = 2'

**SEDIMENT CONTROL FENCE USAGE GUIDELINES**

A SEDIMENT CONTROL FENCE MAY BE CONSTRUCTED NEAR THE DOWNSTREAM PERIMETER OF A DISTURBED AREA ALONG A CONTOUR TO INTERCEPT SEDIMENT FROM OVERLAND RUNOFF. A 2 YEAR STORM FREQUENCY MAY BE USED TO CALCULATE THE FLOW RATE TO BE FILTERED.  
SEDIMENT CONTROL FENCE SHOULD BE SIZED TO FILTER A MAXIMUM FLOW THRU RATE OF 100 GPM / FT SQUARED. SEDIMENT CONTROL FENCE IS NOT RECOMMENDED TO CONTROL EROSION FROM A DRAINAGE AREA LARGER THAN 2 ACRES.

**GENERAL NOTES**

1. THE GUIDELINES SHOWN HEREON ARE SUGGESTIONS ONLY AND MAY BE MODIFIED BY THE ENGINEER.

**TEMPORARY SEDIMENT CONTROL FENCE**

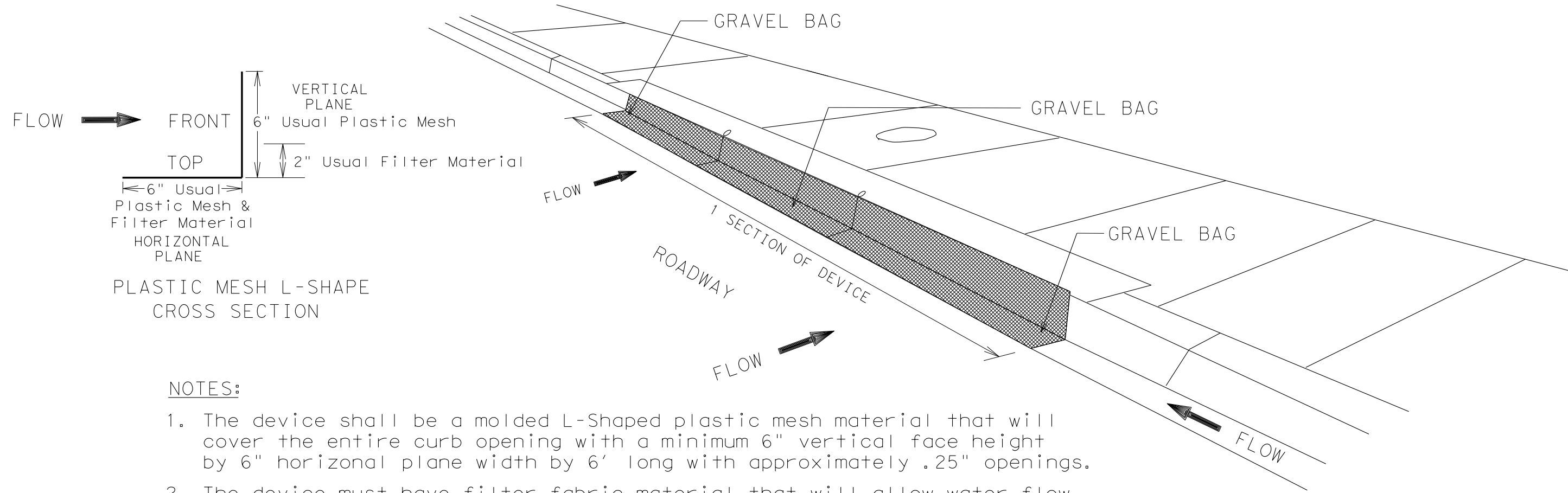
JANUARY 2005

CITY OF SAN ANTONIO  
PUBLIC WORKS DEPARTMENT

**TEMPORARY EROSION, SEDIMENT & WATER POLLUTION CONTROL MEASURES STANDARDS 1**

70% SUBMITTAL	PROJECT NO.: 23-03763	DATE: 1/20/2023
DRWN. BY: V. VASQUEZ	DSGN. BY:	CHKD. BY:

SHEET NO.: 313 OF 521



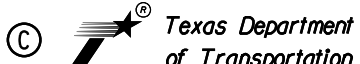
**NOTES:**

1. The device shall be a molded L-Shaped plastic mesh material that will cover the entire curb opening with a minimum 6" vertical face height by 6" horizontal plane width by 6' long with approximately .25" openings.
2. The device must have filter fabric material that will allow water flow but stop sediment. It will extend from bottom up vertical plane a minimum of 2" and full width of horizontal bottom plane. The filter fabric shall be attached to the back of the plastic mesh. It shall not cover more than 1/3 of the height of the vertical plane opening to allow overflow in larger storm events to prevent flooding of travel lanes.

Filter Fabric Physical Requirements Table

Apparent Opening Size (AOS)	400 to 600 microns
Percent Open Area (POA)	>10%
Flow Rate	130 gallons per SF per minute with clean water or greater.

3. Place with horizontal plane pointing away from curb.
4. For high openings, the device or attachment should extend above opening.
5. For long curb openings, overlap the segments 6". Tie together with 4 zip ties in 4 places, 2 at the top and 2 at the bottom.
6. Install gravel, not sand, bags at each end, at overlaps and in the middle of each section. Use 1/3 full bags for low profile and best traffic avoidance.
7. Use bags that will have long-term resistance to UV exposure.
8. Sediment should be removed and device cleaned when sediment reaches 1" in depth.

  
 DALLAS DISTRICT STANDARD  
 TEMPORARY EROSION,  
 SEDIMENT AND WATER  
 POLLUTION CONTROL MEASURES  
 CURB INLET SEDIMENT  
 PROTECTION

FED. RD. DIV. NO.	PROJECT NUMBER	SHEET NUMBER
		314
STATE	DISTRICT	COUNTY
TEXAS		BEXAR
CONTROL	SECTION	JOB
		HIGHWAY NUMBER
		COSA

REVISED ON 9/10/08