

<u>LEGEND</u>

— 700 — EXISTING CONTOURS

700 PROPOSED CONTOURS

BUILDING SETBACK LINE UTILITY EASEMENT

DRAINAGE EASEMENT

DRAINAGE FLOW DIRECTION

- SF - SF - SILT FENCE

— LOC — LOC — LIMIT OF CONSTRUCTION

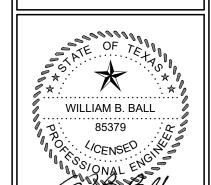
STABILIZED CONSTRUCTION ENTRANCE

FILTER DIKE CURB INLET PROTECTION 0202020202 ROCK BERM

NOTE:

PER TPDES REQUIREMENTS, DISTURBED AREAS ON WHICH CONSTRUCTION ACTIVITIES HAVE CEASED (TEMPORARILY OR PERMANENT) SHALL BE STABILIZED WITHIN 14 DAYS UNLESS ACTIVITY RESUMES WITHIN 21 DAYS. SEEDING DOES NOT CONSTITUTE AS STABILIZATION.

SILT FENCE AT PROPERTY LINE MAY BE SHOWN GRAPHICALLY OFFSET FROM PROPERTY LINE TO AVOID OVERLAP OF LINEWORK. CONTRACTOR SHALL NOT INSTALL EROSION CONTROL MEASURES BEYOND LIMITS OF CONSTRUCTION REGARDLESS OF GRAPHIC REPRESENTATION.



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SEQUENCE OF CONSTRUCTION

1. INSTALL EROSION CONTROL PER APPROVED PLAN.

- 2. TEMPORARY CONTROLS TO BE INSPECTED AND MAINTAINED WEEKLY AND PRIOR TO ANTICIPATED RAINFALL EVENTS, AND AFTER RAINFALL EVENTS, AS NEEDED. CONTRACTOR/OWNER SHALL PROVIDE A CONTACT NAME AND NUMBER FOR EROSION CONTROL ISSUES.
- 3. CONDUCT DEMOLITION ACTIVITIES, IF APPLICABLE.
- 4. PERFORM ROUGH LOT GRADING.
- 5. INSTALL SECONDARY EROSION CONTROL BMP'S PER APPROVED PLAN. STABILIZE AND VEGETATE THE EASTERN BLOCK ALONG THE VEGETATIVE FILTER STRIP.

- 6. INSTALL DRAINAGE IMPROVEMENTS AND UTILITIES.
- 7. CONSTRUCT CURB INLET PROTECTION AT THE TIME OF CURB INLET INSTALLATION.
- 8. CONSTRUCT DEVELOPMENT PER APPROVED PLANS.
- 9. INSTALL STREETSCAPE AND/OR LANDSCAPING IMPROVEMENTS.
- 10. CONTRACTOR TO VEGETATE ANY DISTURBED AREAS ONCE FINAL GRADING IS COMPLETE, AND ESTABLISH A MIN OF 70% VEGETATION PRIOR TO COMPLETION. PER TPDES REQUIREMENTS, DISTURBED AREAS ON WHICH CONSTRUCTION ACTIVITIES HAVE CEASED (TEMPORARILY OR PERMANENTLY) SHALL BE STABILIZED WITHIN 14 DAYS UNLESS ACTIVITY RESUMES WITHIN 21 DAYS. SEEDING DOES NOT CONSTITUTE AS STABILIZATION.
- 11. REMOVE ALL TEMPORARY EROSION CONTROL MEASURES.

EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES, STRUCTURES OR FACILITIES.

24-HOURS PRIOR TO COMMENCING CONSTRUCTION.

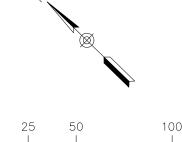
November 2022

MK, RS DRAWN BY: DESIGNED BY: RS

REVIEWED BY: WBB

HMT PROJECT NO .: 337.038

SHEET



— 700 — EXISTING CONTOURS 700 PROPOSED CONTOURS BUILDING SETBACK LINE

UTILITY EASEMENT DRAINAGE EASEMENT

<u>LEGEND</u>

DRAINAGE FLOW DIRECTION — SF — SILT FENCE

— LOC — LOC — LIMIT OF CONSTRUCTION

STABILIZED CONSTRUCTION ENTRANCE

MAINTENANCE ACCESS FILTER DIKE CURB INLET PROTECTION

ROCK BERM 0102010101

NOTE:

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STOCKPILE AREAS NEED TO BE REVEGITATED AFTER EXCAVATION IS COMPLETE. THE HAUL PATHS TO THE STOCK PILES NEED TO BE STABILIZED.

SEQUENCE OF CONSTRUCTION

1. INSTALL EROSION CONTROL PER APPROVED PLAN.

2. TEMPORARY CONTROLS TO BE INSPECTED AND MAINTAINED WEEKLY AND PRIOR TO ANTICIPATED RAINFALL EVENTS, AND AFTER RAINFALL EVENTS, AS NEEDED. CONTRACTOR/OWNER SHALL PROVIDE A CONTACT NAME AND NUMBER FOR EROSION CONTROL ISSUES.

- 3. CONDUCT DEMOLITION ACTIVITIES, IF APPLICABLE.
- 4. PERFORM ROUGH LOT GRADING.
- 5. INSTALL SECONDARY EROSION CONTROL BMP'S PER APPROVED PLAN. STABILIZE AND VEGETATE THE EASTERN BLOCK ALONG THE VEGETATIVE FILTER STRIP.

IMPROVEMENTS.

6. INSTALL DRAINAGE IMPROVEMENTS AND UTILITIES.

- 7. CONSTRUCT CURB INLET PROTECTION AT THE TIME OF CURB INLET INSTALLATION.
- 8. CONSTRUCT DEVELOPMENT PER APPROVED PLANS.
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- 10. CONTRACTOR TO VEGETATE ANY DISTURBED AREAS ONCE FINAL GRADING IS COMPLETE, AND ESTABLISH A MIN OF 70% VEGETATION PRIOR TO COMPLETION. PER TPDES REQUIREMENTS, DISTURBED AREAS ON WHICH CONSTRUCTION ACTIVITIES HAVE CEASED (TEMPORARILY OR PERMANENTLY) SHALL BE STABILIZED WITHIN 14 DAYS UNLESS ACTIVITY RESUMES WITHIN 21 DAYS.

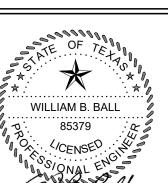
SEEDING DOES NOT CONSTITUTE AS STABILIZATION.

11. REMOVE ALL TEMPORARY EROSION CONTROL MEASURES.

THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN IN APPROXIMATE LOCATIONS ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR WILL AGREE TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE INCURRED BY THEIR FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES, STRUCTURES OR FACILITIES.

CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES 24-HOURS PRIOR TO COMMENCING CONSTRUCTION.

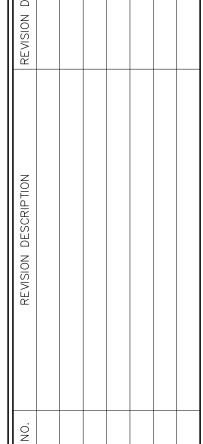
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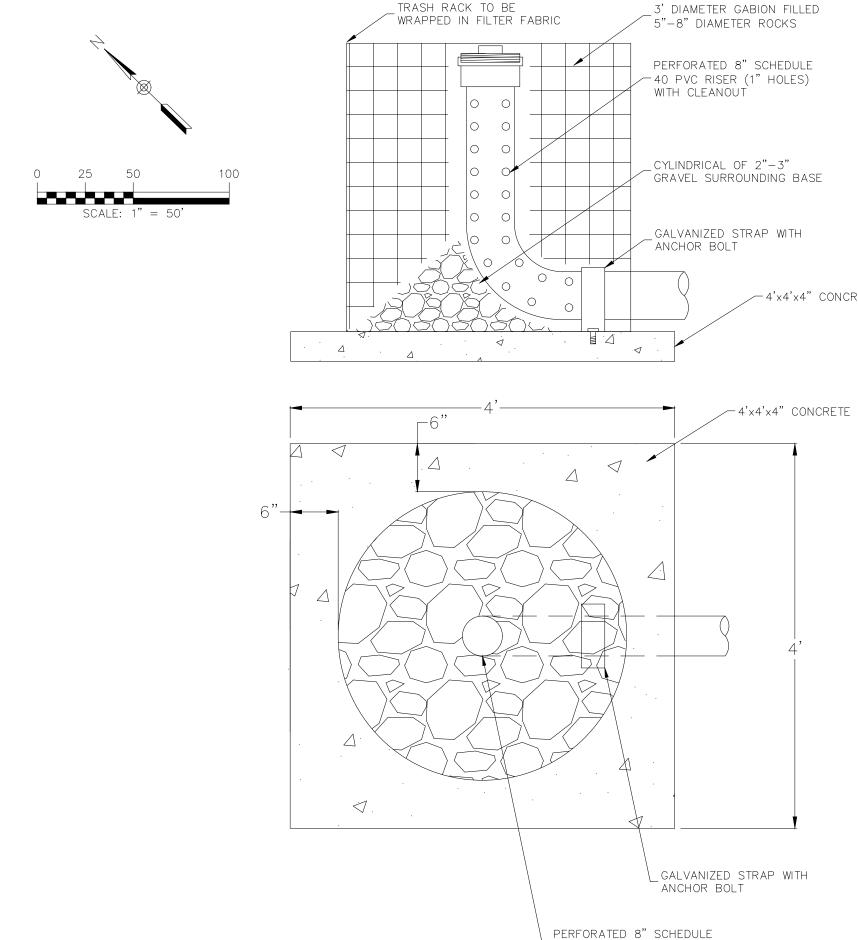


DRAWN BY: DESIGNED BY: RS

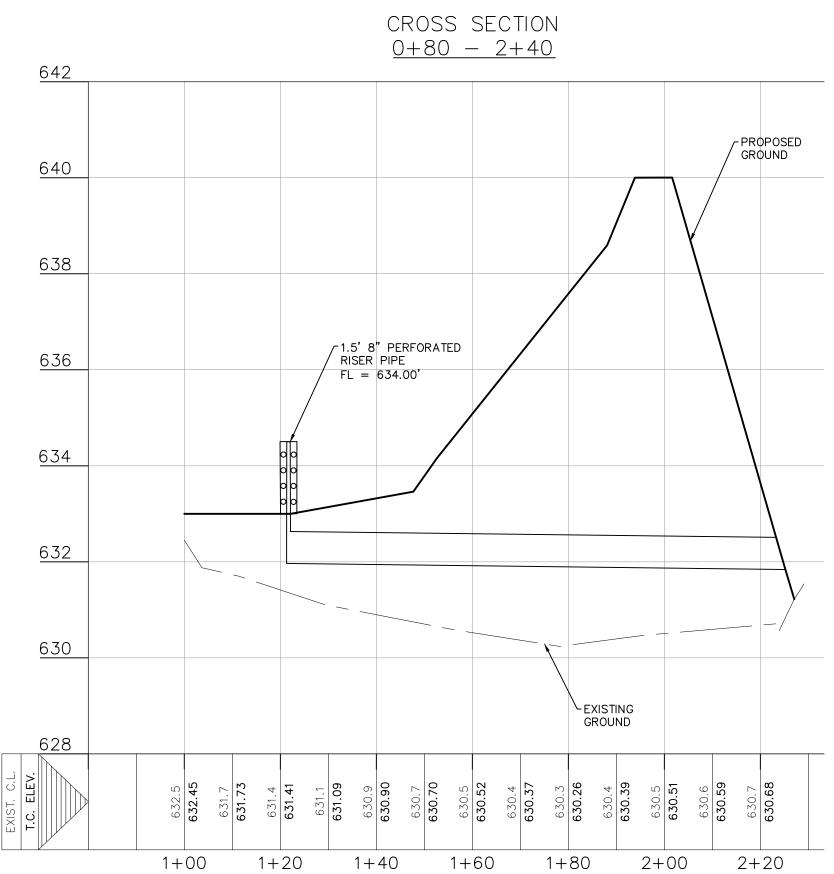
REVIEWED BY: WBB

HMT PROJECT NO .: 337.038

SHEET



TYP. PERFORATED PIPE IN ROCK GABION



-4'x4'x4" CONCRETE PAD 4'x4'x4" CONCRETE PAD

WITH CLEANOUT

40 PVC RISER (1" HOLES)

NOT-TO-SCALE

<u>LEGEND</u>

— 700 — EXISTING CONTOURS --- PROPOSED CONTOURS BUILDING SETBACK LINE UTILITY EASEMENT DRAINAGE EASEMENT

DRAINAGE FLOW DIRECTION - SF - SF - SILT FENCE

— LOC — LOC — LIMIT OF CONSTRUCTION

FILTER DIKE CURB INLET PROTECTION

STABILIZED CONSTRUCTION ENTRANCE

0202020202 ROCK BERM

NOTE:

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REMOVE PERFORATED PIPE BEFORE INSTALLATION OF CLAY LINER IN WET POND.

1. INSTALL EROSION CONTROL PER APPROVED PLAN.

- 2. TEMPORARY CONTROLS TO BE INSPECTED AND MAINTAINED WEEKLY AND PRIOR TO ANTICIPATED RAINFALL EVENTS, AND AFTER RAINFALL EVENTS, AS NEEDED. CONTRACTOR/OWNER SHALL PROVIDE A CONTACT NAME AND NUMBER FOR EROSION CONTROL ISSUES.
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- 4. PERFORM ROUGH LOT GRADING.
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PHASE 2 6. INSTALL DRAINAGE IMPROVEMENTS AND UTILITIES.

- 7. CONSTRUCT CURB INLET PROTECTION AT THE TIME OF CURB INLET INSTALLATION.
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- 11. REMOVE ALL TEMPORARY EROSION CONTROL MEASURES.

WILLIAM B. BALL 85379

S. CAST BRAUN E FIRM F

11/1/2022

SEDIME TEMPORA BASIN

November 2022

MK, RS DRAWN BY: DESIGNED BY: RS

REVIEWED BY: WBB

HMT PROJECT NO .: 337.038

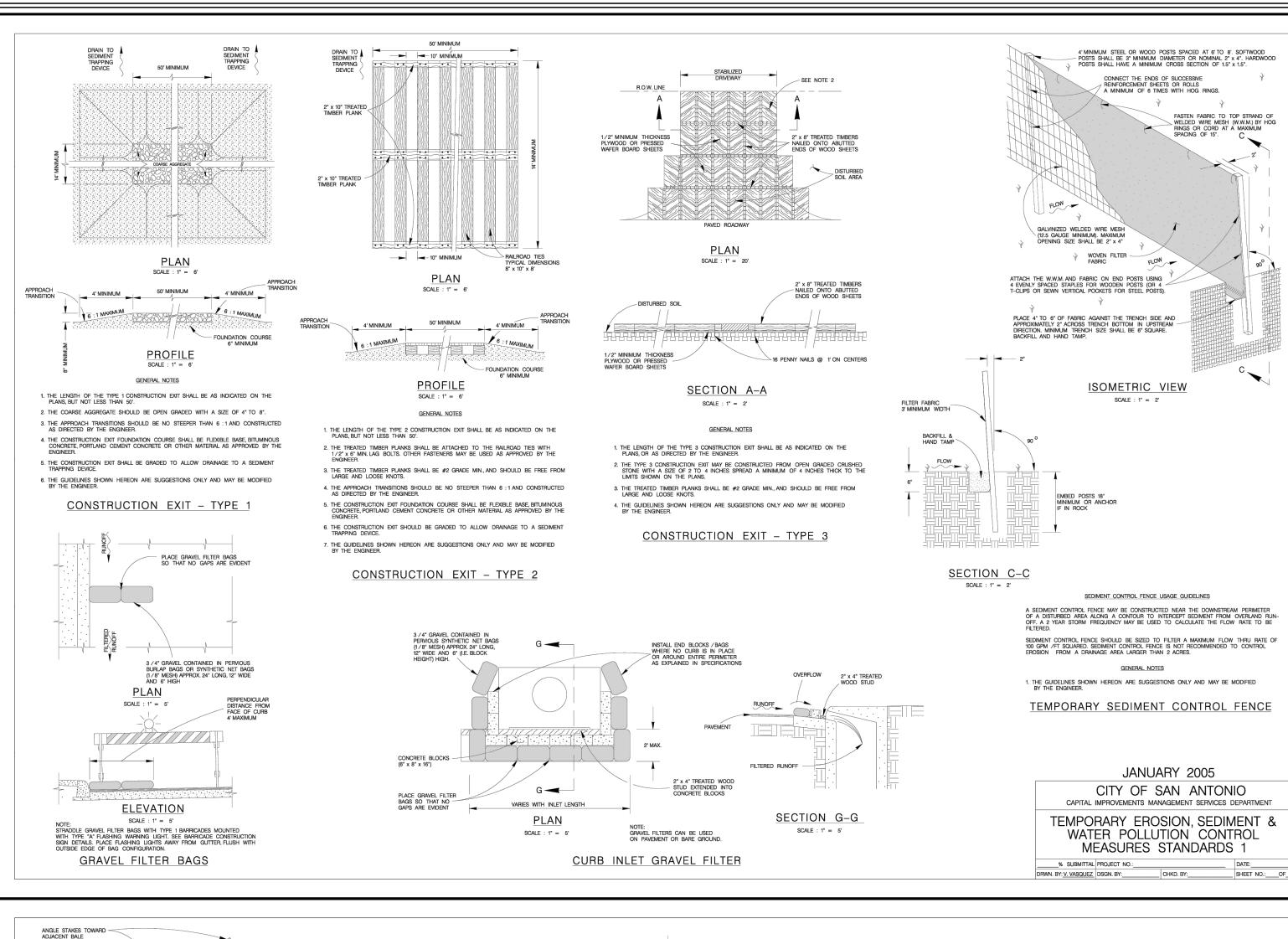
SHEET

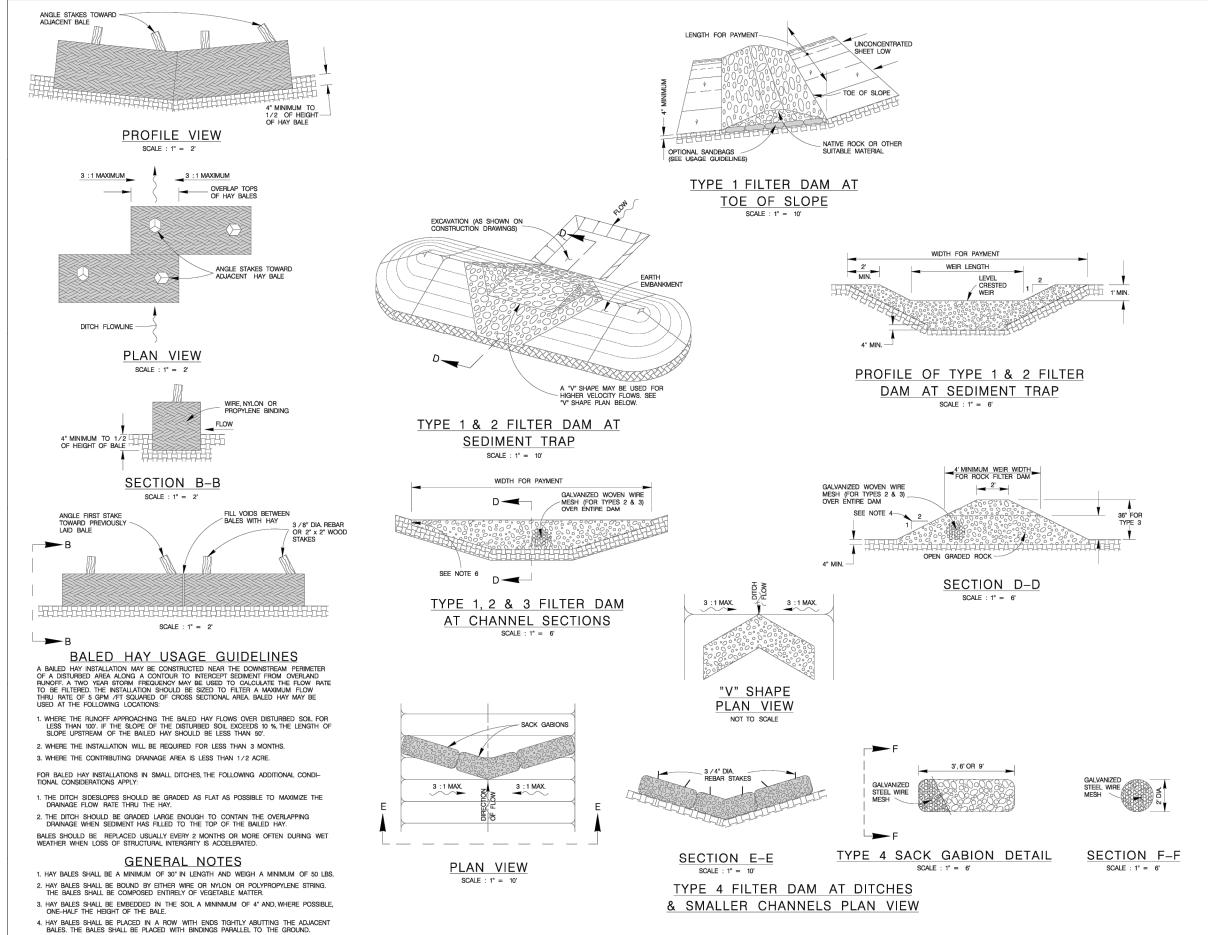
THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN IN APPROXIMATE LOCATIONS ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR WILL AGREE TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE INCURRED BY THEIR FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES, STRUCTURES OR FACILITIES.

CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES 24-HOURS PRIOR TO COMMENCING CONSTRUCTION.

-WEIR LENGTH = 115'----

EMERGENCY OVERFLOW WEIR LENGTH FOR THE INTERIM GRADING CONDITION IS SIZED TO FIT THE ENTIRE 10-YEAR STORM EVENT FOR THE EXISTING DRAINAGE AREA FLOWING THROUGH THE POND.





ROCK FILTER DAMS

5. HAY BALES SHALL BE SECURELY ANCHORED IN PLACE WITH 3 /8" DIA REBAR OR 2" x 2" WOOD STAKES DRIVEN THROUGH THE BALES. THE FIRST STAKE SHALL BE ANGLED TO-WARDS THE PREVIOUSLY LAID BALE TO FORCE THE BALES TOGETHER.

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

BALED HAY FOR EROSION CONTROL

ROCK FILTER DAM USAGE GUIDELINES ROCK FILTER DAMS SHOULD BE CONSTRUCTED DOWNSTREAM FROM DISTURBED AREAS TO INTERCEPT SEDIMENT FROM OVERLOAD RUNOFF AND /OR CONCENTRATED FLOW THE DAMS SHOULD BE SIZED TO FILTER A MAXIMUM FLOW THRU RATE OF 60 GPM /FT SQUARED OF CROSS SECTIONAL AREA.. A 2 YEAR STORM FREQUENCY MAY BE USED TO CALCULATE THE FLOW RATE.

TYPE 1 (18" HIGH WITH NO WIRE MESH)

TYPE 1 MAY BE USED AT THE TOE OF SLOPES, AROUND INLETS, IN SMALL DITCHES AND AT DIKE OR SWALE OUTLETS. THIS TYPE OF DAM IS RECOMMENDED TO CONTROL EROSION FROM A DRAINAGE AREA OF 5 ACRES OR LESS. TYPE 1 MAY NOT BE USED IN CONCENTRATED HIGH VELOCITY FLOWS (APPROXIMATELY 8 FT./SEC. OR MORE) IN WHICH AGGREGATE WASH OUT MAY OCCUR. SANDBAGS MAY BE USED AT THE EMBEDDED FOUNDATION (4" DEE MIN.) FOR BETTER FILTERING EFFICIENCY OF LOW FLOWS IF CALLED FOR ON THE PLANS OR AS DIRECTED BY THE ENGINEER. TYPE 2 (18" HIGH WITH WIRE MESH)

TYPE 2 MAY BE USED IN DITCHES AND AT DIKE OR SWALE OUTLETS. TYPE 3 (36" HIGH WITH WIRE MESH) : TYPE 3 MAY BE USED IN STREAM FLOW AND SHOULD BE SECURED TO THE STREAM BED. TYPE 4 (SACK GABIONS) :

TYPE 4 MAY BE USED IN DITCHES AND SMALLER CHANNELS TO FORM AN EROSION CONTROL DAM.

GENERAL NOTES

IF SHOWN ON THE PLANS OR DIRECTED BY THE ENGINEER, FILTER DAMS SHOULD BE PLACED NEAR THE TOE OF SLOPES WHERE EROSION IS ANTICIPATED, UPSTREAM AND / OR DOWNSTREAM AT DANIANGE STRUCTURES, AND IN ROADWAY DITCHES AND CHANNELS TO COLLECT SEDIMENT.

 MATERIALS (AGGREGATE, WIRE MESH, SANDBAGS, ETC.) SHALL BE AS INDICATED BY THE SPECIFICATION FOR ROCK FILTER DAMS FOR EROSION AND SEDIMENTATION CONTROL. 3. THE ROCK FILTER DAM DIMENSIONS SHALL BE AS INDICATED ON THE STORM WATER POLLUTION PREVENTION PLANS. 4. SIDE SLOPES SHOULD BE 2:1 OR FLATTER. DAMS WITHIN THE SAFETY ZONE SHALL HAVE SIDE SLOPES OF 6:1 OR FLATTER. MAINTAIN A MINIMUM OF 1'BETWEEN TOP OF ROCK FILTER DAM WEIR AND TOP OF EMBANKMENT FOR FILTER DAMS AT SEDIMENT TRAPS. 6. FILTER DAMS SHOULD BE EMBEDDED A MINIMUM OF 4" INTO THE EXISTING GROUND. 7. THE SEDIMENT TRAP FOR PONDING OF SEDIMENT LADEN RUNOFF SHALL BE OF THE DIMENSIONS SHOWN ON THE PLANS.

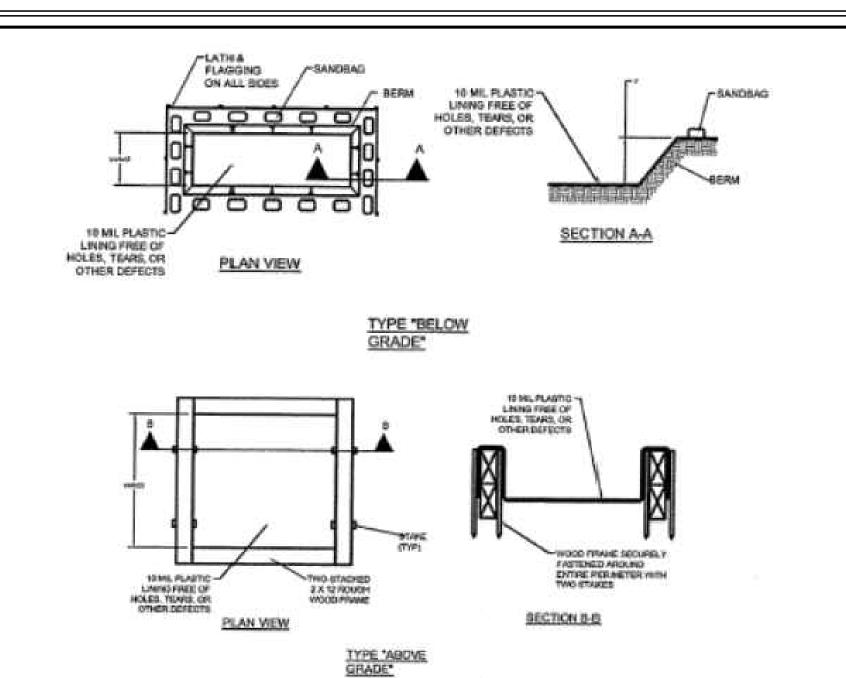
8. ROCK FILTER DAM TYPES 2 & 3 SHALL BE SECURED WITH 20 GAUGE GALVANIZED WOVEN WIRE MESH WITH 1" DIAMETER HEXAGONAL OPENINGS. THE AGGREGATE SHALL BE PLACED ON THE MESH TO THE HEIGHT AND SLOPES SPECIFIED. THE MESH SHALL BE FOLDED AT THE UPSTREAM SIDE OVER THE AGGREGATE AND TIGHTLY SECURED TO ITSELF ON THE DOWNSTREAM SIDE USING WIRE TIES OR HOG RINGS. IN STREAM USE, THE MESH SHOULD BE SECURED OR STAKED TO THE STREAM BED PRIOR TO AGGREGATE PLACEMENT. 9. SACK GABIONS SHOULD BE STAKED DOWN WITH 3 /4" DIA. REBAR STAKES.

10. FLOW OUTLET SHOULD BE ONTO A STABILIZED AREA (VEGETATION, ROCK, ETC.). 11. THE GUIDELINES SHOWN HEREON ARE SUGGESTIONS ONLY AND MAY BE MODIFIED BY THE ENGINEER.

JANUARY 2005 CITY OF SAN ANTONIO CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT TEMPORARY EROSION, SEDIMENT & WATER POLLUTION CONTROL

MEASURES STANDARDS 2

____% SUBMITTAL PROJECT NO.:_____
 DRWN. BY: V. VASQUEZ
 DSGN. BY: ______ CHKD. BY: ______ SHEET NO.: ___OF ____



CONCRETE_WASHOUT AREAS

HE PURPOSE OF CONCRETE WASHOUT AREAS IS TO PREVENT OR REDUCE THE DISCHARGE OF POLLUTANTS TO STORMWATER FROM CONCRETE WASTE BY CONDUCTING WASHOUT OFFSITE, PERFORMING ONSITE WASHOUT IN A DESIGNATED AREA, AND TRAINING EMPLOYEES AND SUBCONTRACTORS. HE FOLLOWING STEPS WILL HELP REDUCE STORMWATER POLLUTION FROM CONCRETE WASTES:

- INCORPORATE REQUIREMENTS FOR CONCRETE WASTE MANAGEMENT INTO MATERIAL SUPPLIER AND SUBCONTRACTOR AGREEMENTS. AVOID MIXING EXCESS AMOUNTS OF FRESH CONCRETE.
- PERFORM WASHOUT OF CONCRETE TRUCKS IN DESIGNATED AREAS ONLY • DO NOT WASH OUT CONCRETE TRUCKS INTO STORM DRAINS, OPEN DITCHES, STREETS, OR STREAMS.
- DO NOT ALLOW EXCESS CONCRETE TO BE DUMPED ONSITE, EXCEPT IN DESIGNATED AREAS.
- FOR ONSITE WASHOUT:
- LOCATE WASHOUT AREA AT LEAST 50 FEET FROM SENSITIVE FEATURES, STORM DRAINS, OPEN DITCHES, OR WATER BODIES. DO NOT ALLOW RUNOFF FROM THIS AREA BY CONSTRUCTING A TEMPORARY PIT OR BERMED AREA LARGE ENOUGH FOR LIQUID AND SOLID WASTE.
- WASH OUT WASTES INTO THE TEMPORARY PIT WHERE THE CONCRETE CAN SET, BE BROKEN UP, AND THEN DISPOSED PROPERLY.

BELOW GRADE CONCRETE WASHOUT FACILITIES ARE TYPICAL. THESE CONSIST OF A LINED EXCAVATION SUFFICIENTLY LARGE TO HOLD EXPECTED VOLUME F WASHOUT MATERIAL. ABOVE GRADE FACILITIES ARE USED IF EXCAVATION IS NOT PRACTICAL. TEMPORARY CONCRETE WASHOUT FACILITY (TYPE ABOVE GRADE) SHOULD BE CONSTRUCTED AS SHOWN ON THE DETAILS AT THE END OF THIS SECTION, WITH SUFFICIENT QUANTITY AND VOLUME TO CONTAIN ALL LIQUID AND CONCRETE WASTE GENERATED BY WASHOUT OPERATIONS. PLASTIC LINING MATERIAL SHOULD BE A MINIMUM OF 10 MIL IN POLYETHYLENE SHEETING AND SHOULD BE FREE OF HOLES, TEARS, OR OTHER DEFECTS THAT COMPROMISE THE IMPERMEABILITY OF THE MATERIAL.

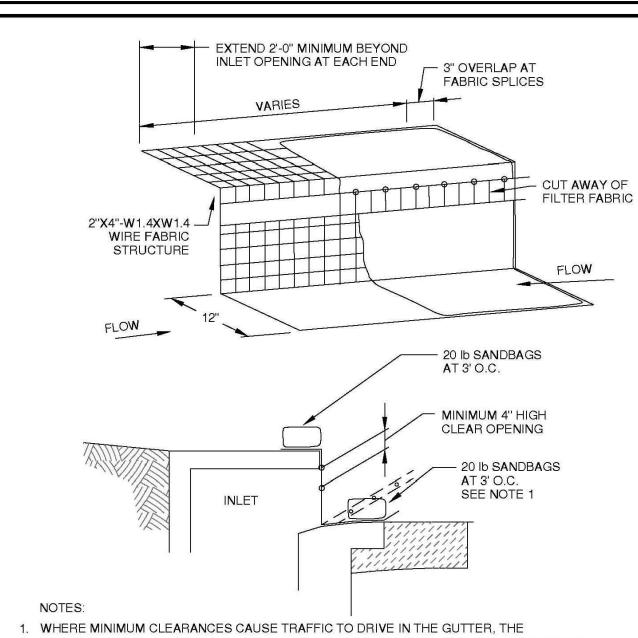
HEN TEMPORARY CONCRETE WASHOUT FACILITIES ARE NO LONGER REQUIRED FOR THE WORK, THE HARDENED CONCRETE SHOULD BE REMOVED AND DISPOSED OF, MATERIALS USED TO CONSTRUCT TEMPORARY CONCRETE WASHOUT FACILITIES SHOULD BE REMOVED FROM THE SITE OF THE WORK AND DISPOSED OF HOLES, DEPRESSIONS OR OTHER GROUND DISTURBANCE CAUSED BY THE REMOVAL OF THE TEMPORARY CONCRETE WASHOUT FACILITIES SHOULD BE BACKFILLED AND REPAIRED.

DETAIL ILLUSTRATES MINIMUM DIMENSIONS. PIT CAN BE INCREASED IN SIZED DEPENDING ON EXPECTED FREQUENCY OF USE.

WASHOUT PIT SHALL BE LOCATED IN AN AREA EASILY ACCESSIBLE TO CONSTRUCTION TRAFFIC.

SHOUT PIT SHALL NOT BE LOCATED IN AREAS SUBJECT TO INUNDATION FROM STORM WATER RUNOFF AND AT LEAST 50 FEET FROM SENSITIVE EATURES, STORM DRAINS, OPEN DITCHES, STREETS, OR STREAMS.

> CONCRETE WASHOUT PIT DETAIL TYPE "ABOVE GRADE" NOT TO SCALE



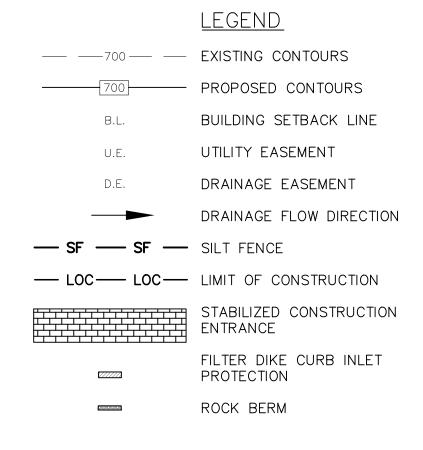
CONTRACTOR MAY SUBSTITUTE A 1" X 4" BOARD SECURED WITH CONCRETE NAILS 3' O.C. NAILED INTO THE GUTTER IN LIEU OF SANDBAGS TO HOLD THE FILTER DIKE IN PLACE. UPON REMOVAL, CLEAN ANY DIRT/DEBRIS FROM NAILING LOCATIONS, APPLY CHEMICAL SANDING AGENT AND APPLY NON-SHRINK GROUT FLUSH WITH SURFACE OF GUTTER.

- 2. A SECTION OF FILTER FABRIC SHALL BE REMOVED AS SHOWN ON THIS DETAIL OR AS DIRECTED BY THE ENGINEER OR DESIGNATED REPRESENTATIVE. FABRIC MUST BE SECURED TO WIRE BACKING WITH CLIPS OR HOG RINGS AT THIS LOCATION.
- 3. DAILY INSPECTION SHALL BE MADE BY THE CONTRACTOR AND SILT ACCUMULATION MUST BE REMOVED WHEN DEPTH REACHES 2". 4. CONTRACTOR SHALL MONITOR THE PERFORMANCE OF INLET PROTECTION DURING EACH RAINFALL EVENT AND IMMEDIATELY REMOVE THE INLET PROTECTIONS IF THE

STORM-WATER BEGINS TO OVER-TOP THE CURB.

5. INLET PROTECTIONS SHALL BE REMOVED AS SOON AS THE SOURCE OF SEDIMENT IS STABILIZED.

MBU	DRAWN BY: H Shadrock APPROVED BY:	STANDARD DRAWIN	FILTER DIKE CURB INLET PROTECTION				
NEW BRAUNFELS UTILITIES WATER SYSTEMS ENGINEERING		UPDATED: 4-29-03	SCALE: N.T.S.	SHEET:	DRAWING NO. 505		



SEQUENCE OF CONSTRUCTION

1. INSTALL EROSION CONTROL PER APPROVED PLAN.

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11/1/2022

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UNLESS ACTIVITY RESUMES IN 21 DAYS,

Permanent Turf Reinforcement Mat	Class	Max Shear (vegitated)	Max Velocity	Manning's N
Landlok 435	1	8	12	0.025
Futerra 7010 Green Armor	1	8	16	.025045
EroNet P300	1	8	16	.020034
Landlok 450	2	10	18	0.025
VMax P350	2	10	20	.012041
VMax P550	2	12	22	.023029
Futerra 7020 Green Armor	3	17	20	.025045
Futorra PAS (HD TDM)	2	20	30	

Note: Contractor to select permanent turf reinforcement mat from list above based on class. If an alternate mat is preferred, contact the engineer on record to approve any unlisted erosion control mats. Construction of turf reinforcement mat shall be in accordance with manufacturers specifications

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	REVISION DESCRIPTION				
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MK, RS RAWN BY:

DESIGNED BY: RS EVIEWED BY:

MT PROJECT NO .:

337.038