



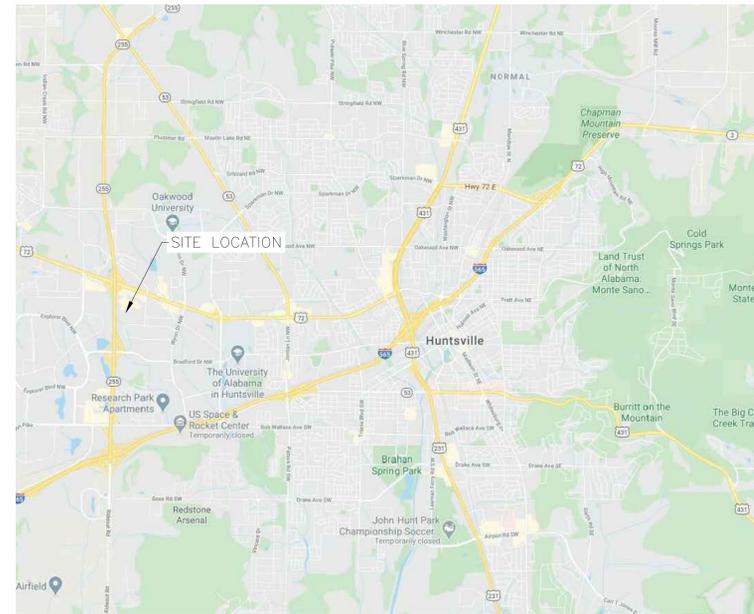
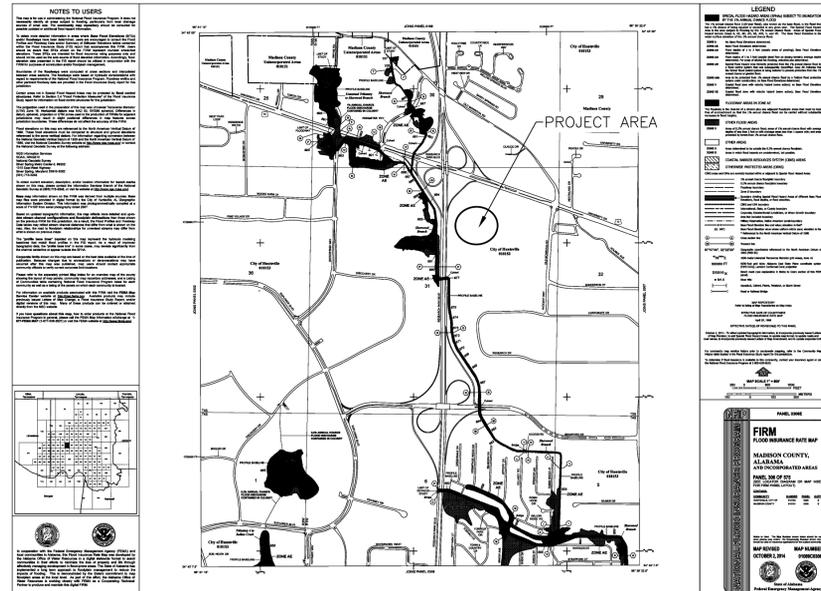
# MASS GRADING PLANS FOR: TOUCHSTAR LUXURY CINEMAS



MID CITY DISTRICT  
OF THE TOWNSHIP 3, RANGE 1 WEST, SECTION 31

MADISON COUNTY, AL  
CITY OF HUNTSVILLE  
ZONED C4

SITE PARCEL AREA = 4.43 AC  
TOTAL DISTURBED AREA = 4.59 AC (INCLUDES WORK WITHIN RIGHT-OF-WAY)



SITE LOCATION MAP

THE PROPERTY SHOWN HEREON LIES WITHIN FLOOD ZONE "X", AS SHOWN ON THE FEDERAL INSURANCE RATE MAP (FIRM) 01089C0306E, COMMUNITY PANEL NUMBER 0306E, DATE 10/02/2014.

THIS SITE IS NOT LOCATED WITHIN PRIORITY WATERSHED.

RUNOFF FROM THIS SITE DISCHARGES INTO SHERWOOD CREEK.

OWNER/DEVELOPER:  
TOUCHSTAR CINEMAS  
12441 S ORNGE BLOSSOM TRL  
ORLANDO, FL 32837  
TEL: 1-407-888-2027

24 HOUR CONTACT:  
RAJAN PATEL  
TEL: 770-855-8577

**CROY**  
603 MADISON STREET, SE  
HUNTSVILLE, AL 35801  
PHONE: (256) 517-8555



SHEET INDEX		
SHEET	DRAWING NUMBER	SHEET TITLE
1	G-1	COVER
2	G-2	PHASE 1 EROSION CONTROL PLAN
3	G-3	PHASE 2 EROSION CONTROL AND GRADING PLAN
4	G-4	EROSION CONTROL DETAILS
5	G-5	MASS GRADING PLAN AND DIAGRAM



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TOUCHSTAR  
LUXURY CINEMAS  
MID CITY DISTRICT

TOWNSHIP 3, RANGE 1 WEST, SECTION 31  
CITY OF HUNTSVILLE, MADISON COUNTY, AL

ISSUED FOR MASS GRADING ONLY

NO.	REVISION REFERENCE	DATE



SHEET TITLE  
COVER

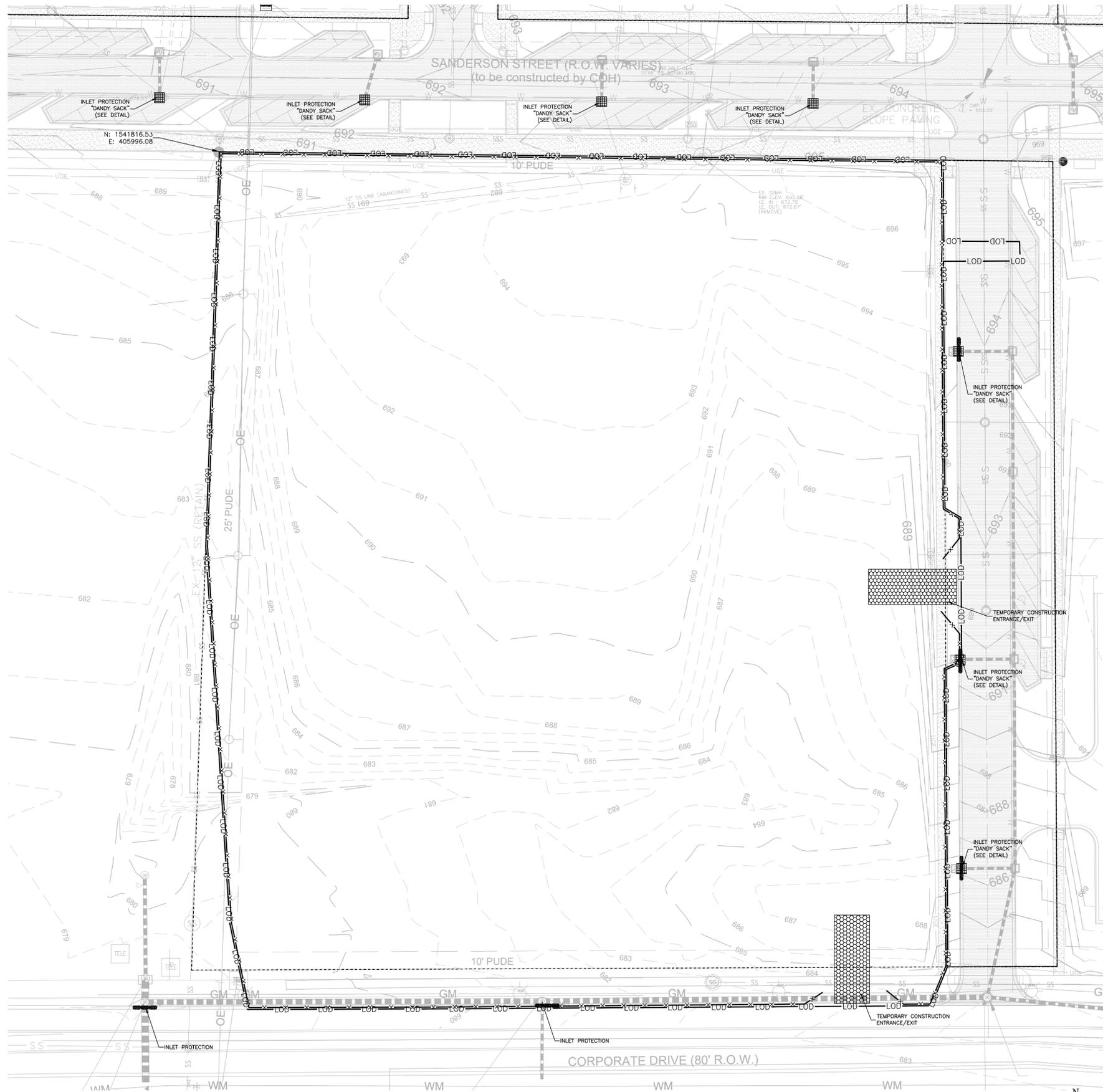
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EWR	PL

SCALE	ISSUE DATE
N/A	7-23-20

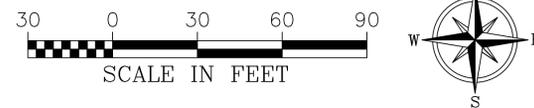
PROJECT NUMBER  
2231.01

DRAWING NUMBER  
**G-1**

SHEET 1 of 5



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**EROSION CONTROL NOTES**

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**CROY**

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 PHONE: (256) 517-8555

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**TOUCHSTAR**  
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MID CITY DISTRICT

TOWNSHIP 3, RANGE 1 WEST, SECTION 31  
 CITY OF HUNTSVILLE, MADISON COUNTY, AL

NO.	REVISION	REFERENCE	DATE

SEAL

ALABAMA  
 LICENSED  
 PROFESSIONAL ENGINEER  
 No. 38972-E  
 TRICK T. LENTON  
 7/23/20

SHEET TITLE  
**EROSION CONTROL  
 PHASE 1 PLAN**

DRAWN BY EWR	CHECKED BY PL
SCALE 1"=30'	ISSUE DATE 7-23-20
PROJECT NUMBER 2231.01	
DRAWING NUMBER <b>G-2</b>	
SHEET 2 of 5	

P:\Huntsville\2231 Touchstar Cinemas\Road Theater\CompleteEngineering\Design\2231.01\_Misc Grading Plan.dwg  
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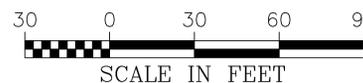
2018-00024861

SANDERSON STREET (R.O.W. VARIES)  
(to be constructed by CDH)

PAD EL = 693.50

CORPORATE DRIVE (80' R.O.W.)

24 HOUR CONTACT:  
RAJAN PATEL  
TEL: 770-855-8577



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WORK IN THIS AREA CANNOT BEGIN UNTIL THE OVERHEAD UTILITIES ARE EITHER RELOCATED OUTSIDE THE PROJECT LIMITS OR PLACED UNDERGROUND BY HUNTSVILLE UTILITIES.



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SEAL

7/23/20

SHEET TITLE  
EROSION CONTROL  
PHASE 2 PLAN

DRAWN BY EWR	CHECKED BY PL
SCALE 1"=30'	ISSUE DATE 7-23-20

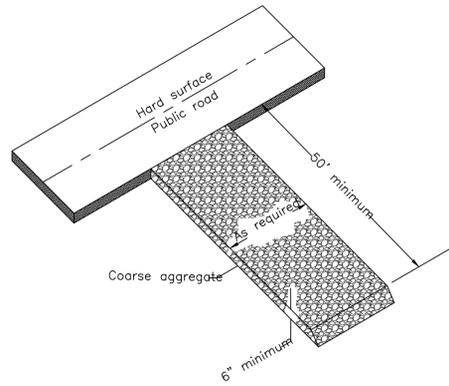
PROJECT NUMBER  
2231.01  
DRAWING NUMBER  
**G-3**  
SHEET 3 of 5

Plot Scale: 1"=30' Drawing Location: P:\Huntsville\2231\_001 Touchstar Cinema\Road Theater\Complete\Engineering\Design\2231\_001\_Mass Grading Plan.dwg

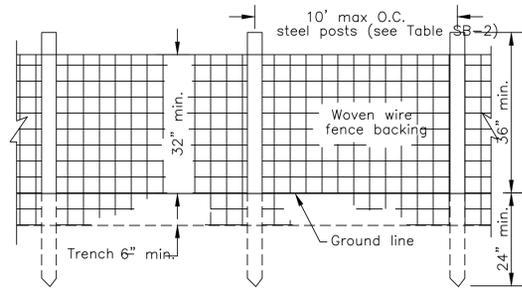
TABLE MU-1 MULCHING MATERIALS AND APPLICATION RATES

MATERIAL	RATE PER ACRE AND (PER 1000 SF)	NOTES
STRAW WITH SEED	1.5-2 TONS (70-90 LBS)	SPREAD BY HAND OR MACHINE TO ATTAIN 75% GROUND COVER; ANCHOR WHEN SUBJECT TO BLOWING.
STRAW ALONE (NO SEED)	2.5-3 TONS (115-160 LBS)	SPREAD BY HAND OR MACHINE; ANCHOR WHEN SUBJECT TO BLOWING.
WOOD CHIPS	5-6 TONS (225-270 LBS)	TREAT WITH 12 LBS NITROGEN/TON.
BARK	35 CUBIC YARDS (0.8 CUBIC YARDS)	CAN APPLY WITH MULCH BLOWER.
PINE STRAW	1-2 TONS (45-90 LBS)	SPREAD BY HAND OR MACHINE; WILL NOT BLOW LIKE STRAW.
PEANUT HULLS	10-20 TONS (450-900 LBS)	WILL WASH OFF SLOPES. TREAT WITH 12 LBS NITROGEN/TON
HECPs	0.75-2.25 TONS (35-103 LBS)	REFER TO ECTC OR MANUFACTURER'S SPECIFICATIONS.

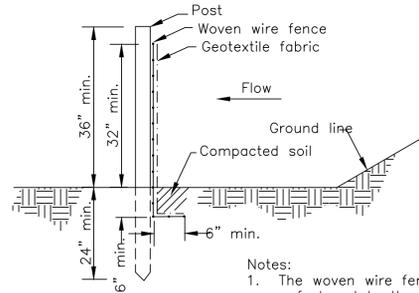
MULCHING (MU)  
NOT TO SCALE



CONSTRUCTION ENTRANCE PAD (CEP)  
NOT TO SCALE



FRONT VIEW (Not to scale)



SIDE VIEW (Not to scale)

- Notes:
- The woven wire fencing shall be fastened to the upstream side of posts by staples or wire ties.
  - Geotextile fabric shall be securely fastened to the woven wire fencing.
  - Machine trenched geotextile shall be trenched vertical at least 8" deep.

(SB) SEDIMENT BARRIER  
NOT TO SCALE

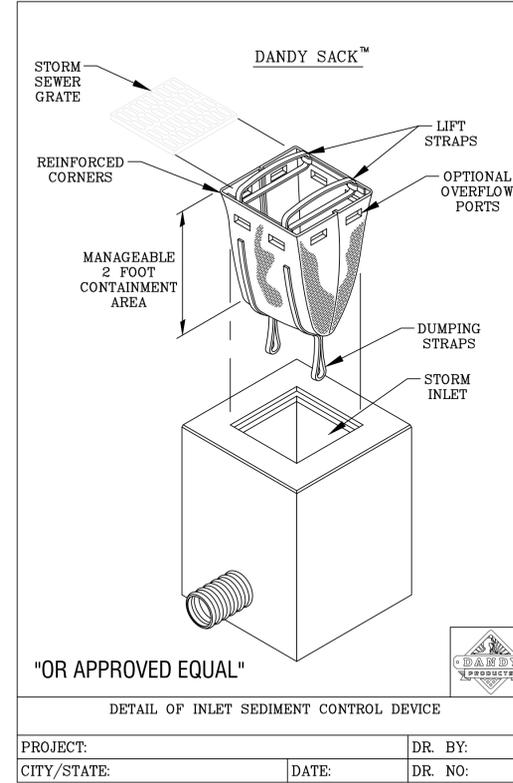
Table TS-1 Commonly Used Plants for Temporary Cover

Species	Seeding Rate/AC PLS	Seeding Dates		
		North	Central	South
Millet, Browntop or German	40 lbs	Apr 1-Aug 1	Apr 1-Aug 15	Apr 1-Aug 15
Rye	3 bu	Sep 1-Nov 15	Sep 15-Nov 15	Sep 15-Nov 15
Ryegrass	30 lbs	Aug 1-Sep 15	Sep 1-Oct 15	Sep 1-Oct 15
Sorghum-Sudan Hybrids	40 lbs	May 1-Aug 1	Apr 15-Aug 1	Apr 1-Aug 15
Sudangrass	40 lbs	May 1-Aug 1	Apr 15-Aug 1	Apr 1-Aug 15
Wheat	3 bu	Sep 1-Nov 1	Sep 15-Nov 15	Sep 15-Nov 15
Common Bermudagrass	10 lbs	Apr 1-July 1	Mar 15-July 15	Mar 1-July 15
Crimson Clover	10lbs	Sept 1-Nov 1	Sept 1-Nov 1	Sept 1-Nov 1

PLS means pure live seed and is used to adjust seeding rates. For example, to plant 10 lbs PLS of a species with germination of 80% and purity of 80%, PLS = 0.8x0.8 = 72%. 10 lbs PLS = 10/0.72 = 13.9 lbs of the species to be planted.



Figure TS-1 Geographical Areas for Species Adaptation and Seeding Dates



DANDY SACK™ SPECIFICATIONS

NOTE: THE DANDY SACK™ WILL BE MANUFACTURED IN THE U.S.A. FROM A WOVEN MONOFILAMENT FABRIC THAT MEETS OR EXCEEDS THE FOLLOWING SPECIFICATIONS:

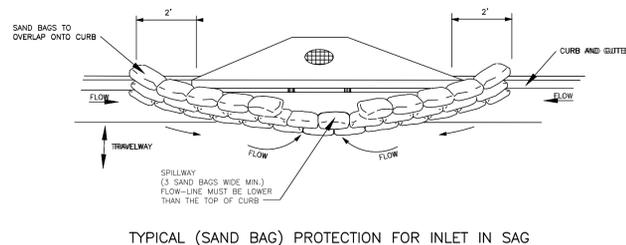
Mechanical Properties	Test Method	Units	MARV
Grab Tensile Strength	ASTM D 4632	kN (lbs)	1.78 (400) x 1.40 (315)
Grab Tensile Elongation	ASTM D 4632	%	15 x 15
Puncture Strength	ASTM D 4833	kN (lbs)	0.67 (150)
Mullen Burst Strength	ASTM D 3786	kPa (psi)	5506 (800)
Trapezoid Tear Strength	ASTM D 4533	kN (lbs)	0.67 (150) x 0.73 (165)
UV Resistance	ASTM D 4355	%	90
Apparent Opening Size	ASTM D 4751	Mm (US Std Sieve)	0.425 (40)
Flow Rate	ASTM D 4491	l/min/m² (gal/min/ft²)	2852 (70)
Permittivity	ASTM D 4491	Sec⁻¹	0.90

HI-FLOW DANDY SACK™ (SAFETY ORANGE)

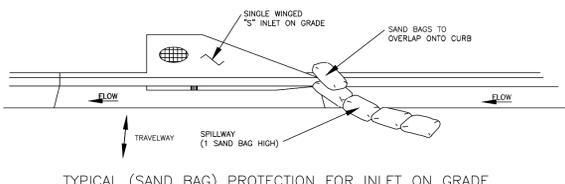
Mechanical Properties	Test Method	Units	MARV
Grab Tensile Strength	ASTM D 4632	kN (lbs)	1.62 (365) x 0.89 (200)
Grab Tensile Elongation	ASTM D 4632	%	24 x 10
Puncture Strength	ASTM D 4833	kN (lbs)	0.40 (90)
Mullen Burst Strength	ASTM D 3786	kPa (psi)	3267 (450)
Trapezoid Tear Strength	ASTM D 4533	kN (lbs)	0.51 (115) x 0.33 (75)
UV Resistance	ASTM D 4355	%	90
Apparent Opening Size	ASTM D 4751	Mm (US Std Sieve)	0.425 (40)
Flow Rate	ASTM D 4491	l/min/m² (gal/min/ft²)	5907 (145)
Permittivity	ASTM D 4491	Sec⁻¹	2.1

\*Note: All Dandy Sacks™ can be ordered with our optional oil absorbent pillows  
"OR APPROVED EQUAL"

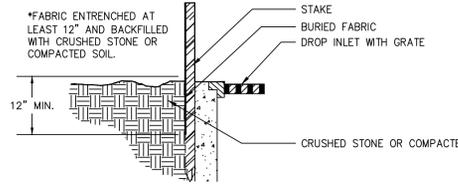
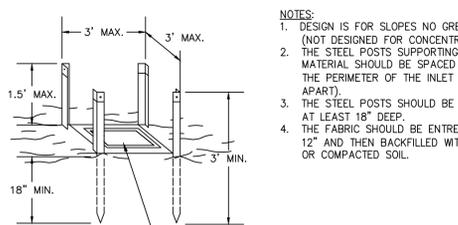
PROJECT: \_\_\_\_\_ DR. BY: \_\_\_\_\_  
CITY/STATE: \_\_\_\_\_ DATE: \_\_\_\_\_ DR. NO: \_\_\_\_\_



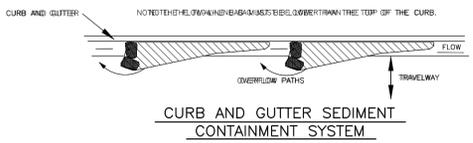
TYPICAL (SAND BAG) PROTECTION FOR INLET IN SAG



TYPICAL (SAND BAG) PROTECTION FOR INLET ON GRADE



- NOTES:
- DESIGN IS FOR SLOPES NO GREATER THAN 5% (NOT DESIGNED FOR CONCENTRATED FLOWS).
  - THE STEEL POSTS SUPPORTING THE SILT FENCE MATERIAL SHOULD BE SPACED EVENLY AROUND THE PERIMETER OF THE INLET (MAXIMUM OF 3' APART).
  - THE STEEL POSTS SHOULD BE SECURELY DRIVEN AT LEAST 18" DEEP.
  - THE FABRIC SHOULD BE ENTRENCHED AT LEAST 12" AND THEN BACKFILLED WITH CRUSHED STONE OR COMPACTED SOIL.



CURB AND GUTTER SEDIMENT CONTAINMENT SYSTEM

- NOTES:
- CURB INLET PROTECTION CAN ALSO BE USED AT OTHER EDGE-OF-PAVEMENT TYPE INLETS SUCH AS TYPE "E" INLETS AT MEDIAN BARRIER LOCATIONS.
  - THIS CURB INLET PROTECTION METHOD CAN BE USED DURING ANY STAGE OF BASE AND PAVEMENT CONSTRUCTION.
  - BAG HEIGHT AND NUMBER OF BAGS SHOULD BE BASED ON CURB HEIGHT AND USE OF TRAVELWAY.
  - SEDIMENT SHOULD BE CONTROLLED PRIOR TO ENTERING GUTTER, GUTTER CHECKS AND INLET PROTECTION ARE FOR SECONDARY CONTROL.
  - REMOVE ACCUMULATED SEDIMENT AFTER EVERY RAINFALL. SWEEP SEDIMENT FROM HARD SURFACES AND DISPOSE OF APPROPRIATELY AWAY FROM INLETS AND/OR WATER BODIES.
  - IF DENUDATED AREAS EXIST BEHIND THE INLET, A SEDIMENT BARRIER SHOULD BE INSTALLED AROUND ITS PERIMETER TO CONTROL SEDIMENT.

FIP FABRIC INLET PROTECTION  
NOT TO SCALE

**CROY**

603 MADISON STREET, SE  
HUNTSVILLE, AL 35801  
PHONE: (256) 517-8555

TOUCHSTAR LUXURY CINEMAS  
MID CITY DISTRICT

TOWNSHIP 3, RANGE 1 WEST, SECTION 31  
CITY OF HUNTSVILLE, MADISON COUNTY, AL

ISSUED FOR MASS GRADING ONLY

NO.	REVISION REFERENCE	DATE

SEAL  
LABAMA  
LICENSED  
PROFESSIONAL  
ENGINEER  
No. 38972-E  
FATRICK T. LENTON  
7/23/20

SHEET TITLE  
EROSION DETAILS

DRAWN BY EWR	CHECKED BY GD
SCALE N/A	ISSUE DATE 7-23-20

PROJECT NUMBER  
2231.01  
DRAWING NUMBER

G-4  
SHEET 4 of 5

