

MANNING QUARRY

MINE PERMIT # _____

7900 MONTICELLO ROAD COLUMBIA, SC 29203
 RICHLAND COUNTY TAX MAP NO. R07700-01-05

HEIDELBERG MATERIALS SOUTHEAST AGG, LLC.

7 WEST POINT BLVD.
 MAULDIN, SC 29662

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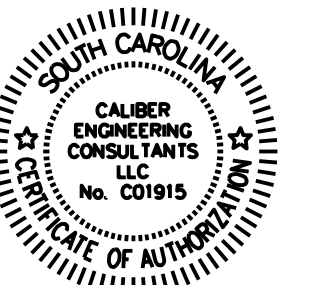
PERMITTEE / OPERATER:



HEIDELBERG MATERIALS
 SOUTHEAST AGG, LLC.

7 WEST POINT BLVD.
 MAULDIN, SC 29662

OWNER CONTACT:
 KAYLEE JONES, Ph.D.
 kaylee.jones@heidelbergmaterials.com
 864-308-7850



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DATE	REV	DESCRIPTION
05-27-25	A	ISSUED FOR SCDES REVIEW

PROJECT NO: 251-001
 CAD DWG:
 DRAWN BY: RCH
 CHECKED BY: GAJ

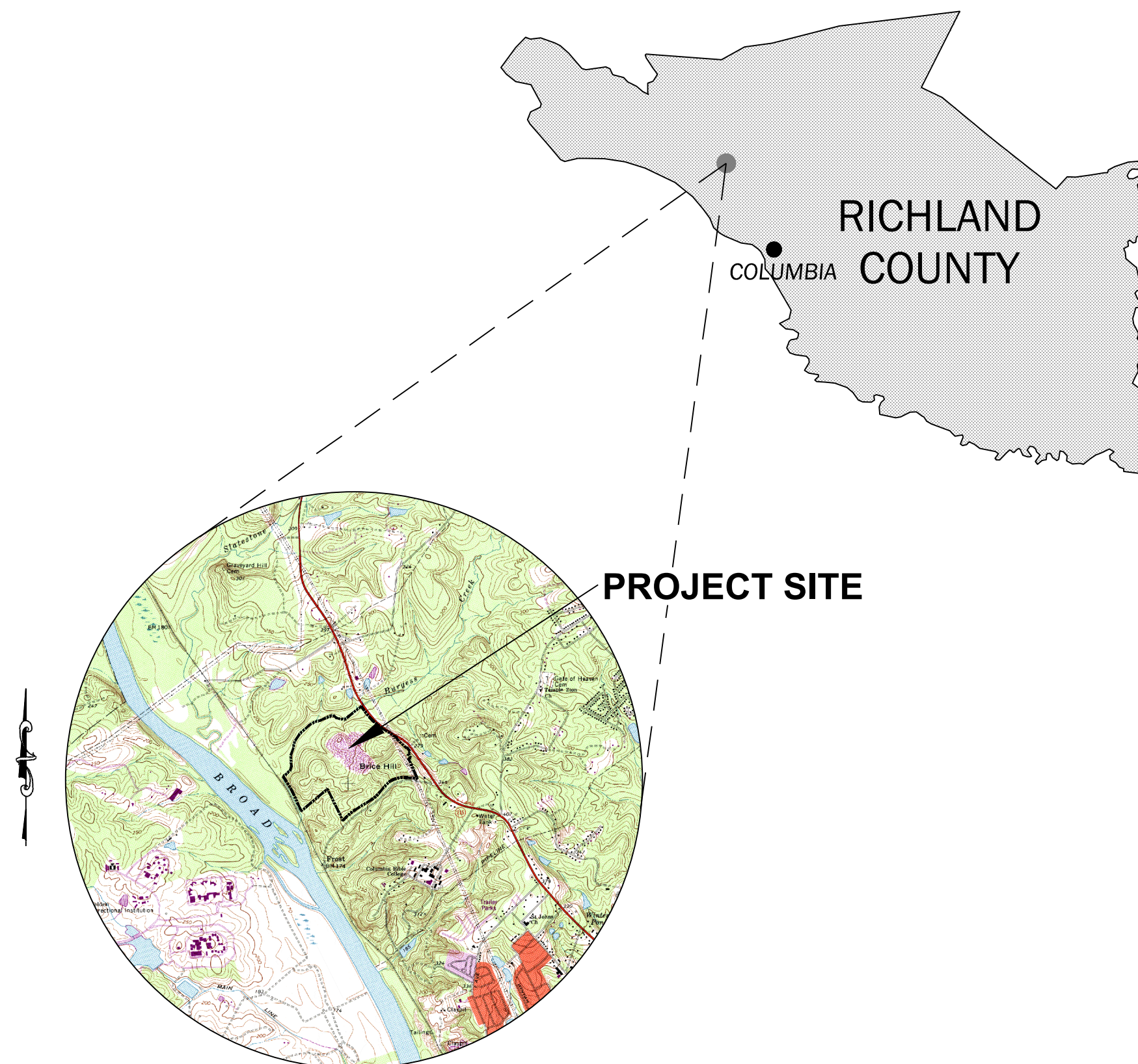
COVER SHEET

C1.1



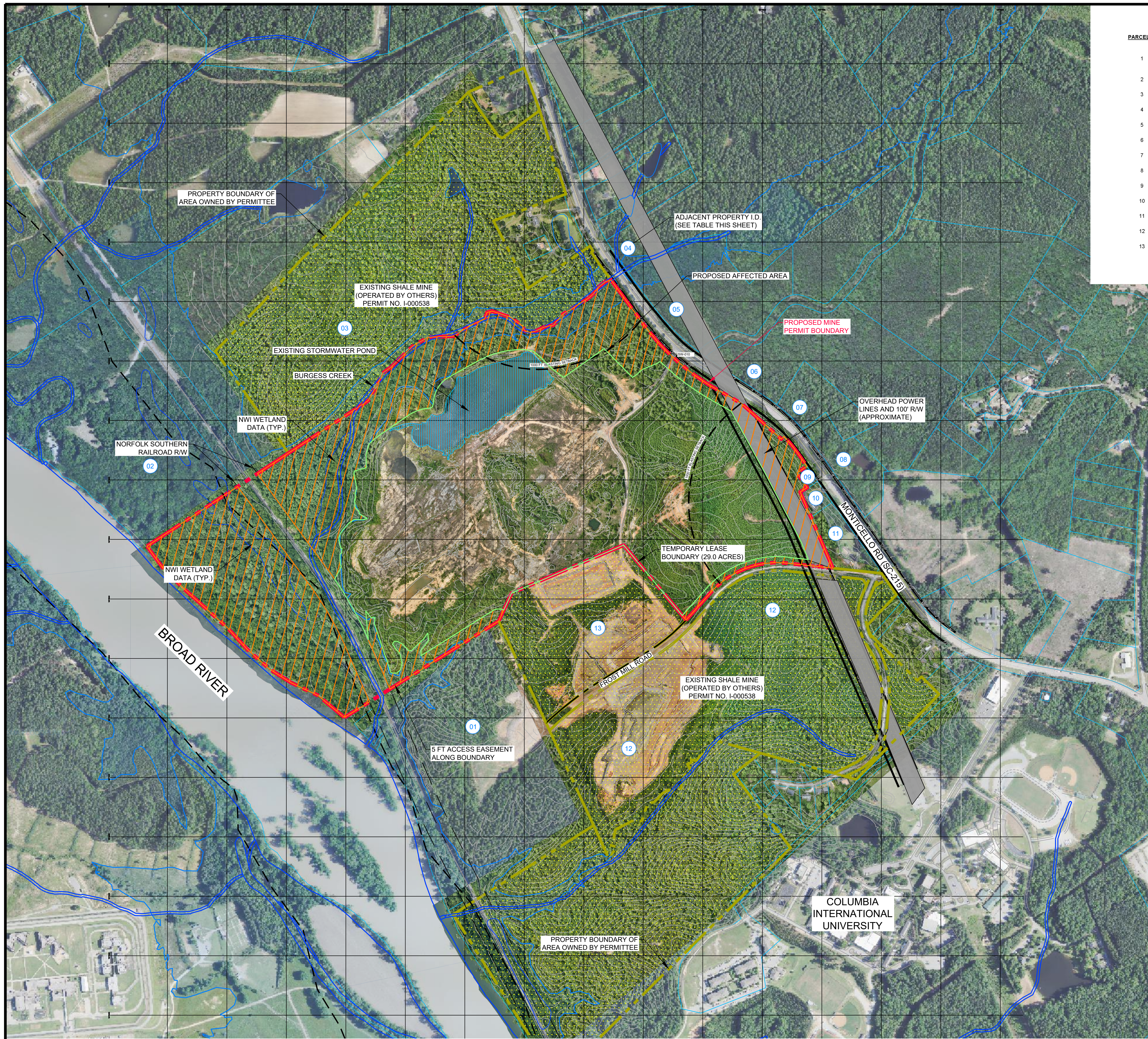
COUNTY MAP

NOT TO SCALE



LOCATION MAP

SOURCE: USGS TOPOGRAPHIC MAP OBTAINED FROM NRCS GEOSPITAL DATA GATEWAY AT <http://soilscgateway.nrcs.usda.gov/>

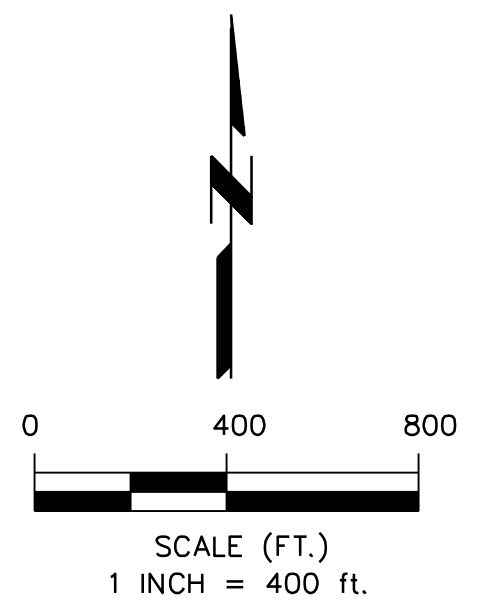


EXISTING CONDITIONS PLAN
SCALE: 1"=400'

ADJACENT PROPERTY OWNERS			
PARCEL ID	TAX MAP NO.	OWNER NAME	OWNER MAILING ADDRESS
1	R07800-02-01	SC ELECTRIC & GAS CO	C/O SCANA LAND DEPT ATTN: MANAGER MAIL CODE D112 220 OPERATION WAY CAYCE SC 29033
2	R07700-01-09	SPIKE CAMP LLC	PO BOX 456 COLUMBIA SC 29202
3	R07700-01-05	HANSON AGGREGATES SOUTHEAST LLC [Leased to MERIDIAN BRICK, LLC]	PO BOX 52427 ATLANTA GA 30355
4	R07700-03-05	LAWRENCE E KLEIN TRUST &	701 GERVAIS ST # 150-103 COLUMBIA SC 292013066
5	R07700-03-62	CROSSOVER COMMUNICATIONS INTERNATIONAL	7250 MONTICELLO RD COLUMBIA SC 292031608
6	R07700-03-68	WILLIAMS LESSIE BERENICE	3005 CAMBRIDGE RD ANDERSON SC 296252249
7	R07700-03-06	CROSSOVER COMMUNICATIONS INTERNATIONAL	7250 MONTICELLO RD COLUMBIA SC 292031608
8	R07700-03-07	REID CHRISTOPHER STEPHEN	7840 MONTICELLO RD COLUMBIA SC 292030000
9	R07700-01-12	CITY OF COLUMBIA THE	1737 MAIN ST PO BOX 147 COLUMBIA SC 292020147
10	R07700-01-06	PEARSON CHRISTOPHER	7801 MONTICELLO RD COLUMBIA SC 292030000
11	R07700-01-07	SCOTT SETH LEE JTWRS	7739 MONTICELLO RD COLUMBIA SC 292031518
12	R07700-01-05	HANSON AGGREGATES SOUTHEAST LLC [Leased to MERIDIAN BRICK, LLC]	PO BOX 52427 ATLANTA GA 30355
13	R07700-01-05	HANSON AGGREGATES SOUTHEAST LLC [Leased to MERIDIAN BRICK, LLC]	PO BOX 52427 ATLANTA GA 30355

LEGEND	
	PROPERTY LINE
	ADJACENT PROPERTY LINE
	AREA OWNED BY PERMITTEE
	PROPOSED PERMIT AREA
	PROPOSED AFFECTED AREA
	PROPOSED BUFFER AREA
	FEMA FLOODPLAIN
	OVERHEAD POWER RIGHT-OF-WAY

- GENERAL NOTES:**
- BOUNDARY SURVEY PROVIDED IN CAD BY HEIDELBERG MATERIALS, DATED 04-14-2021 BY RAYMOND DAWBER, PLS.
 - EXISTING TOPOGRAPHY IS A COMPILATION OF A 2014 SURVEY PERFORMED BY CONTINENTAL AERIAL SURVEY (DATED MARCH 27, 2014) AND RECENT AERIAL SURVEY PROVIDED BY HEIDELBERG MATERIALS (DATED AUGUST 22, 2024).
 - SPECIAL FLOOD HAZARD AREAS (SFHA) AND REGULATORY FLOODWAY LIMITS WERE OBTAINED FROM THE FEMA FLOOD MAP SERVICE CENTER WEBSITE (DOWNLOADED FEBRUARY 2025), AS ILLUSTRATED ON FIRM #4507900229L, REVISED DECEMBER 21, 2017. SHADED AREAS SHOWN ARE ZONE AE WITH AN ESTABLISHED BASE FLOOD ELEVATION OF 183 ADJACENT TO MOST OF THE PERMIT AREA (NAVDB8).
 - NATIONAL WETLAND INVENTORY (NWI) WETLAND AND STREAM DATA SHOWN WAS OBTAINED FROM THE USFWS WETLAND MAPPER WEBSITE (DOWNLOADED FEBRUARY 2025). NO WETLAND OR STREAMS ARE LOCATED IN THE AFFECTED AREA.



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PERMITTEE / OPERATOR:



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OWNER CONTACT:
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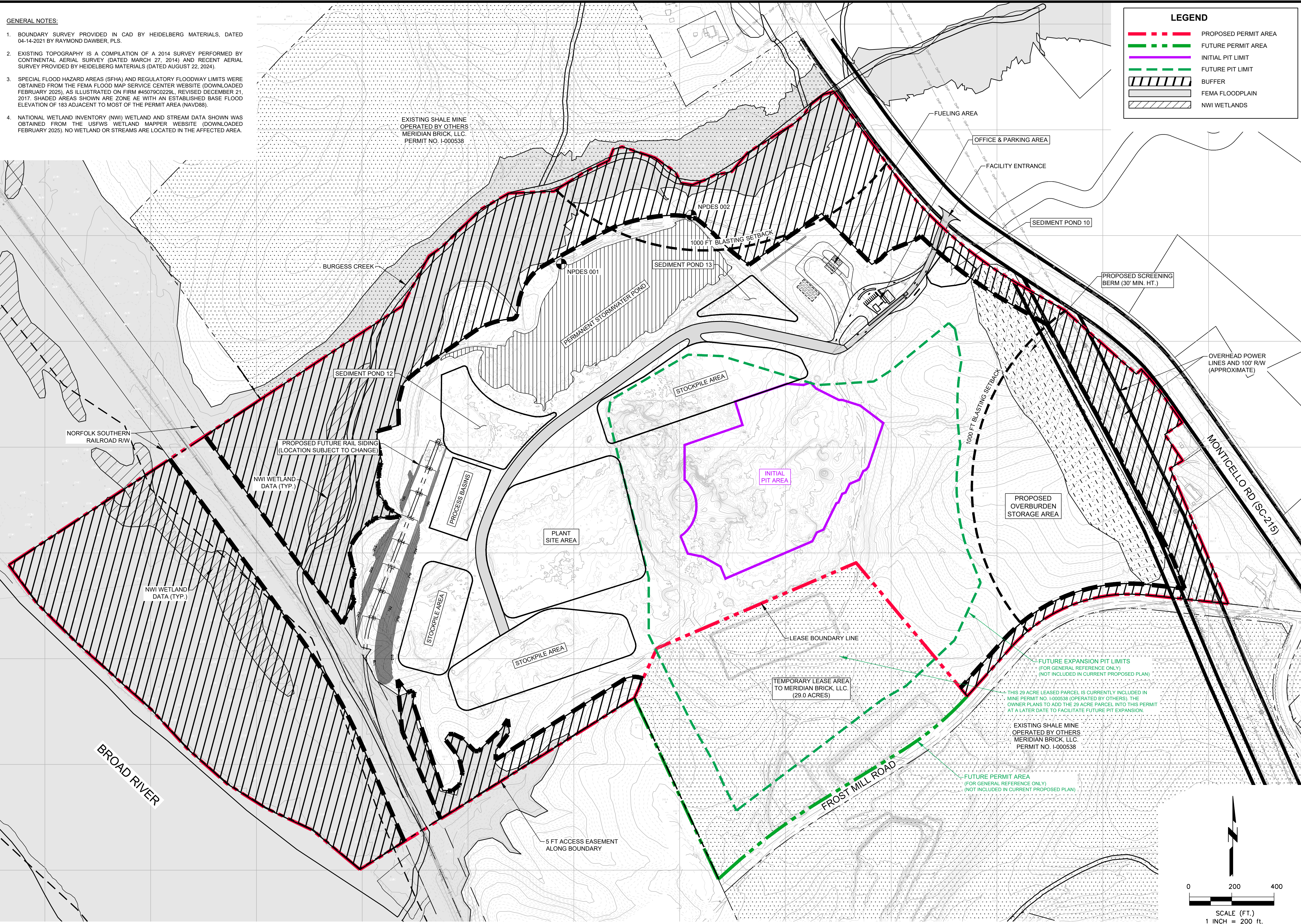
PROJECT NO: 251-001
CAD DWG:
DRAWN BY: RCH
CHECKED BY: GAJ

EXISTING CONDITIONS PLAN

C2.1

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- NATIONAL WETLAND INVENTORY (NWI) WETLAND AND STREAM DATA SHOWN WAS OBTAINED FROM THE USFWS WETLAND MAPPER WEBSITE (DOWNLOADED FEBRUARY 2025). NO WETLAND OR STREAMS ARE LOCATED IN THE AFFECTED AREA.



LEGEND

- - - - - PROPOSED PERMIT AREA
- - - - - FUTURE PERMIT AREA
- - - - - INITIAL PIT LIMIT
- - - - - FUTURE PIT LIMIT
- BUFFER
- FEMA FLOODPLAIN
- NWI WETLANDS

CALIBER
ENGINEERING CONSULTANTS, LLC
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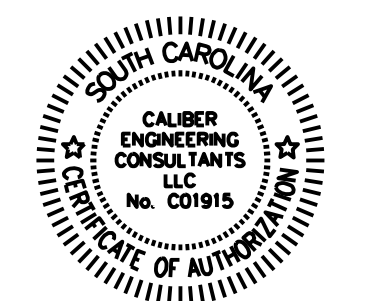
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PERMITTEE / OPERATOR:

Heidelberg Materials

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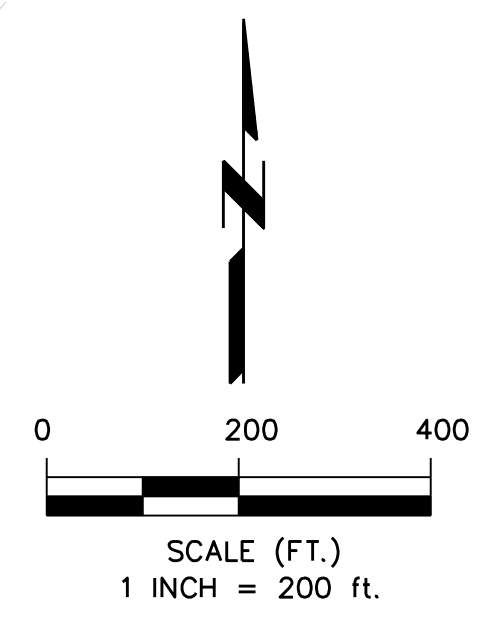
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DRAWN BY: RCH
CHECKED BY: GAJ

MASTER SITE PLAN

C2.2

MASTER SITE PLAN
SCALE: 1"=200'



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EXISTING SHALE MINE OPERATED BY OTHERS
MERIDIAN BRICK, LLC.
PERMIT NO. I-000538

FUEL STATION STRUCTURE, TANKS, AND APPURTENANCES TO BE REMOVED FROM THE SITE

OFFICE, SEPTIC FIELD, PARKING, AND SCALE TO BE REMOVED FROM THE SITE

FACILITY ENTRANCE

SEDIMENT POND 13 BERM & OUTLET STRUCTURE TO BE REMOVED

SEDIMENT POND 10 BERM & OUTLET STRUCTURE TO BE REMOVED

BURGESS CREEK

PERMANENT STORMWATER POND

SEDIMENT POND 12 BERM & OUTLET STRUCTURES TO BE REMOVED

OVERHEAD POWER LINES AND 100' R/W (APPROXIMATE)

NORFOLK SOUTHERN RAILROAD R/W

NWI WETLAND DATA (TYP.)

NWI WETLAND DATA (TYP.)

MONTICELLO RD (SC-215)

PIT TO BE RECLAIMED AS A LAKE

ALL PERMANENT SLOPES OUTSIDE PIT TO BE RECLAIMED AT 3H:1V (MAX)

LEASE BOUNDARY LINE

PLANT EQUIPMENT TO BE REMOVED FROM THE SITE

TEMPORARY LEASE AREA TO MERIDIAN BRICK, LLC. (29.0 ACRES)

EXISTING SHALE MINE OPERATED BY OTHERS
MERIDIAN BRICK, LLC.
PERMIT NO. I-000538

BROAD RIVER

5 FT ACCESS EASEMENT ALONG BOUNDARY

FROST MILL ROAD

LEGEND

- PROPERTY LINE
- PIT LIMIT
- BUFFER
- FEMA FLOODPLAIN
- NWI WETLANDS
- FINAL CONTOUR (APPROX.)

RECLAMATION PLAN NOTES:

- OFFICE AREA STRUCTURES AND APPURTENANCES SHALL BE REMOVED FROM THE SITE INCLUDING PARKING AREA, SEPTIC TANK, TRUCK SCALES, SIGNS, AND UTILITIES.
- ALL PLANT EQUIPMENT WILL BE REMOVED FROM THE SITE.
- ALL PERMANENT SLOPES WILL BE RECLAIMED WITH A MAXIMUM 3H:1V SLOPE.
- QUARRY PIT WILL BE RECLAIMED AS A LAKE.
- EXISTING STORMWATER POND WILL REMAIN AS A PERMANENT FEATURE.
- ALL DISTURBED AREAS WILL BE VEGETATED WITH PERENNIAL GRASSING SUITABLE FOR THE REGION. FINAL SEEDING MIX WILL BE CHOSEN BASED ON SEASON AT THE TIME OF PLANTING AND BASED ON GUIDANCE DOCUMENTS FROM SCOOT, SODES, OR NRCS.
- ONCE ALL OTHER SITE AREAS HAVE BEEN STABILIZED WITH PERENNIAL GRASSING, TEMPORARY SEDIMENT PONDS WILL BE REMOVED. POND BERMS WILL BE BREACHED AND GRADED TO GRAVITY DRAIN. OUTLET STRUCTURES AND CULVERTS WILL BE REMOVED. ALL AREAS WILL BE STABILIZED WITH PERENNIAL GRASSING.

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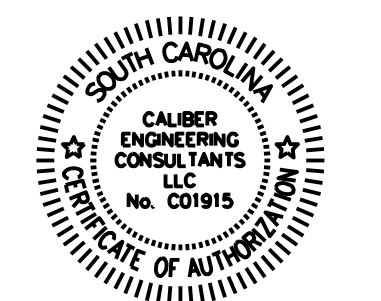
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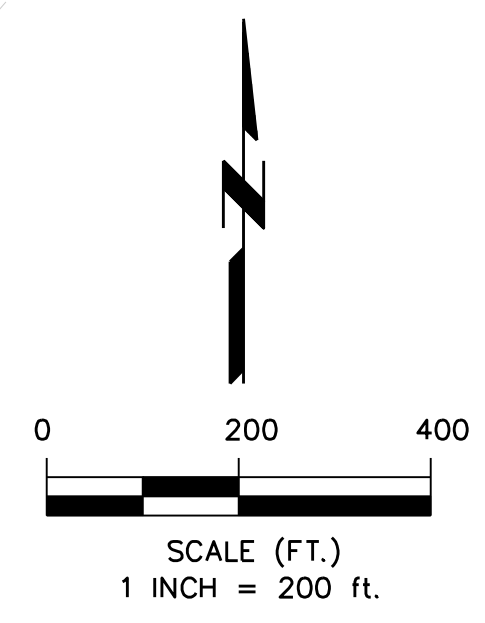
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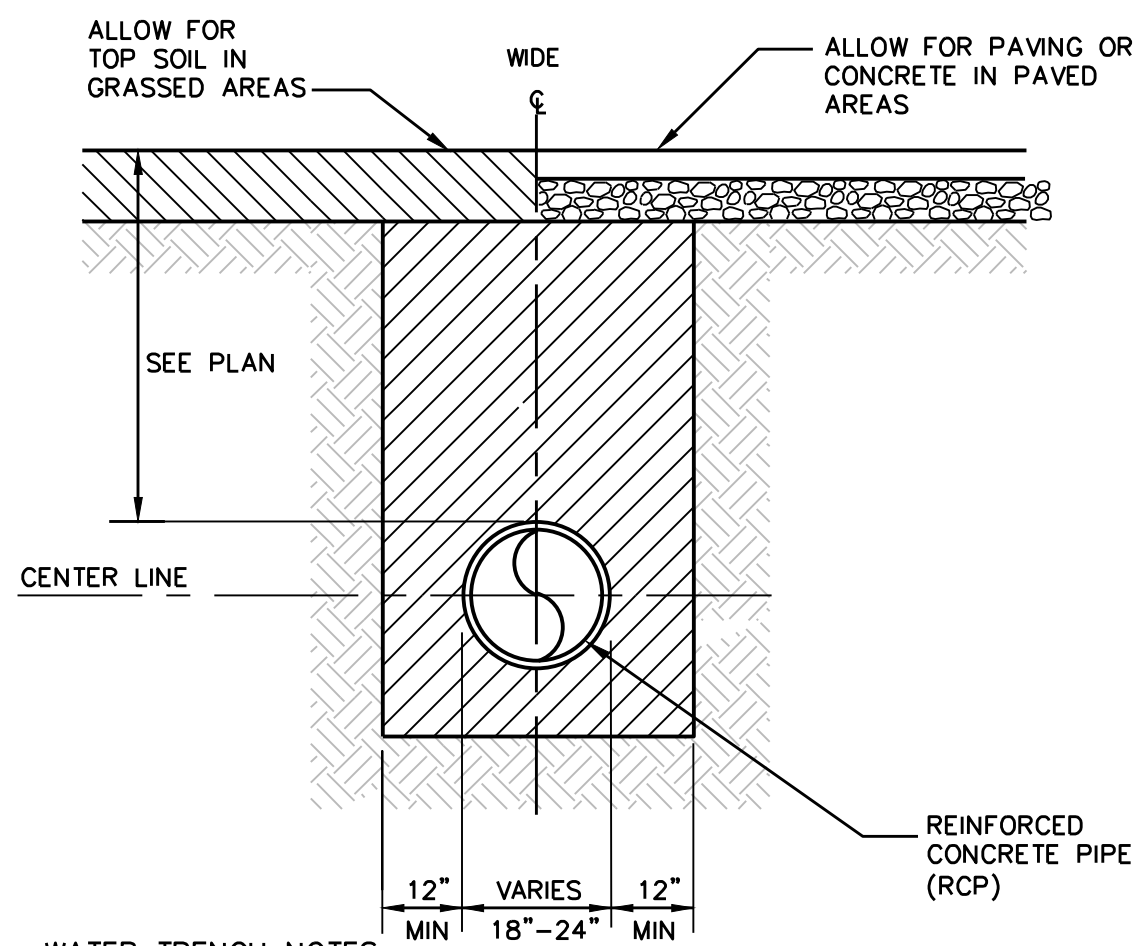
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CAD DWG:
DRAWN BY: RCH
CHECKED BY: GAJ

INITIAL PIT RECLAMATION PLAN

C2.5

INITIAL PIT - RECLAMATION PLAN
SCALE: 1"=200'

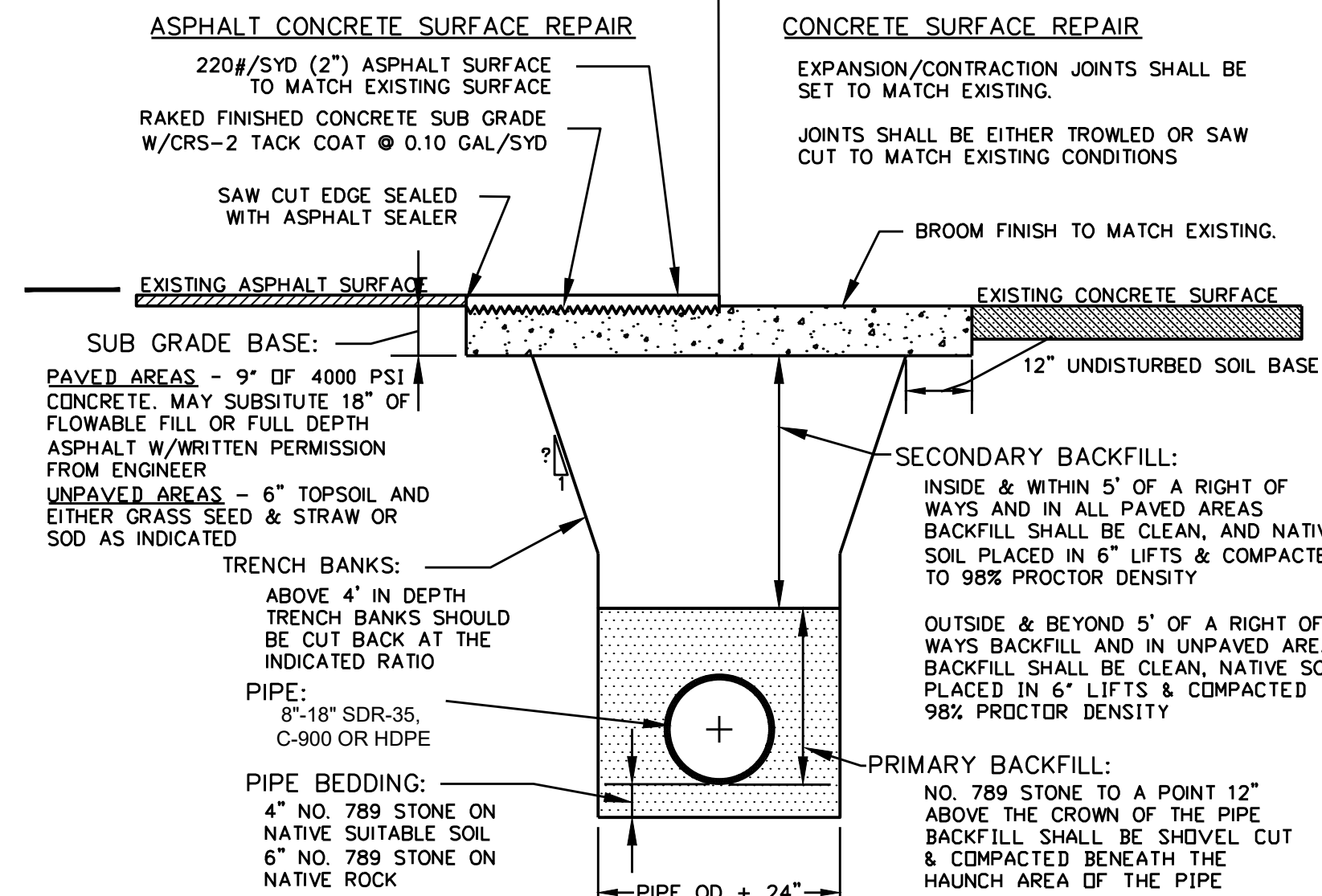




WATER TRENCH NOTES:

1. WET OR UNSTABLE BOTTOMS, EXCAVATE MIN. 8" BELOW TRENCH. BACKFILL WITH WASHED CRUSHED STONE.
2. ROCK BOTTOMS, EXCAVATE MIN. 6" BELOW TRENCH. BACKFILL WITH WASHED CRUSHED STONE.
3. NO ROCKS OR BOULDERS OR DEBRIS TO BE USED IN BACKFILL.
4. ALL BACKFILL MATERIAL SHALL BE SUITABLE NATIVE MATERIAL, EXCEPT AS NOTED.
5. BACKFILL SHALL BE COMPACTED IN 6" LAYERS TO 95% STANDARD PROCTOR.

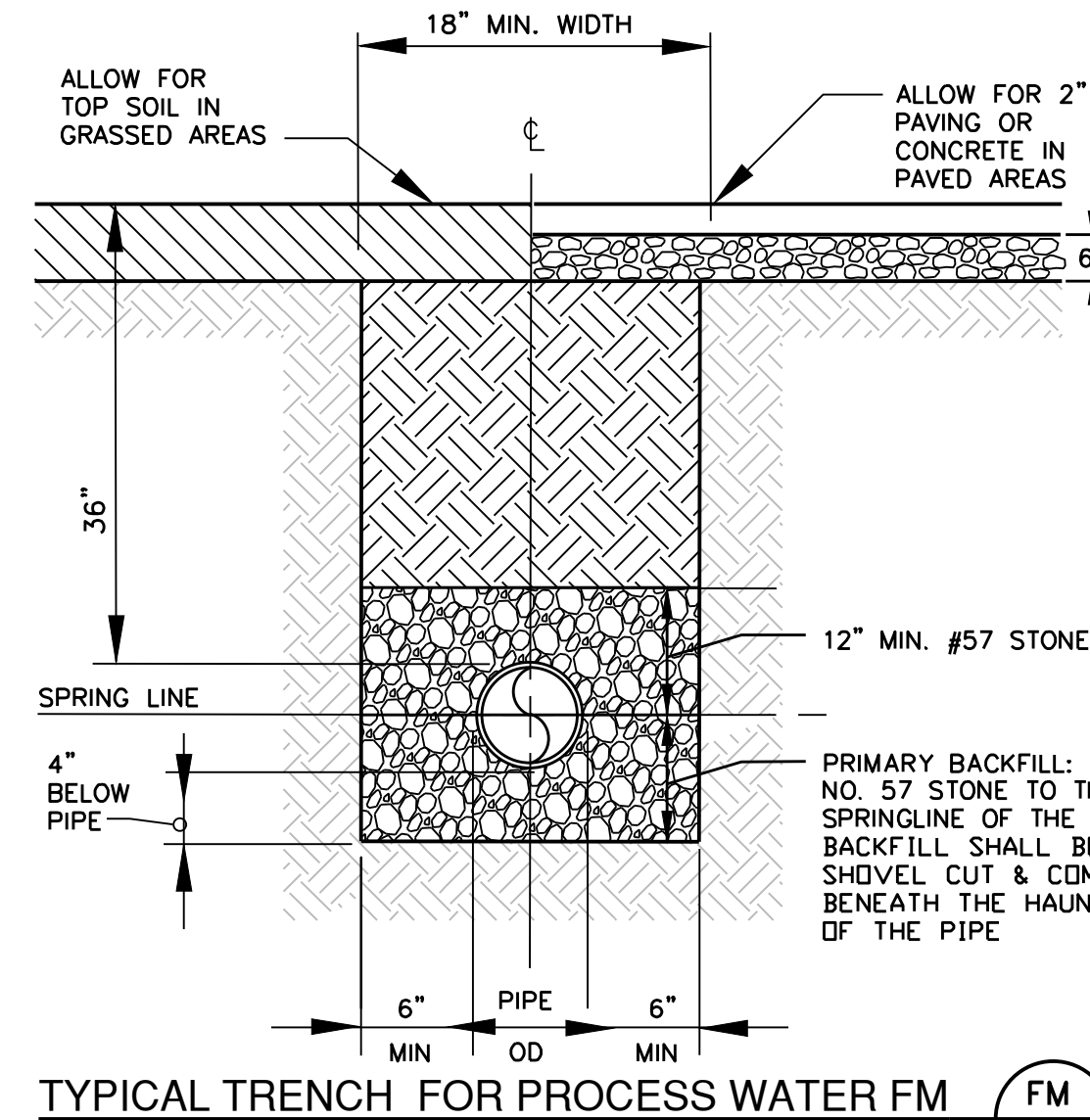
TYPICAL TRENCH FOR RCP PIPE
NO SCALE



GENERAL NOTES:

- 1) IF TOP WIDTH OF TRENCH(S) EXCEEDS 50% OF THE TOTAL ROAD WIDTH FULL DEPTH REPLACEMENT OF THE ENTIRE ROADWAY SHALL BE REQUIRED FOR THE LENGTH OF THE TRENCH(S).
- 2) IF TOP WIDTH OF TRENCH(S) EXCEEDS 50% OF THE WIDTH OF ANY TRAVEL LANE FULL DEPTH REPLACEMENT OF THE ENTIRE IMPACTED TRAVEL LANE SHALL BE REQUIRED. IF DISTANCE BETWEEN EDGE OF PATCH & EXISTING EDGE OF PAVEMENT IS LESS THAN ONE FOOT ROAD PATCH SHALL BE EXTENDED TO EDGE OF EXISTING PAVEMENT.
- 3) ALL TRENCH WORK SHALL BE IN COMPLIANCE WITH OSHA PART 26 OF THE CODE OF FEDERAL REGULATIONS.
- 4) ALL PAYMENT FOR ROCK EXCAVATION SHALL BE BASED ON THE IDEALIZED TRENCH DIMENSIONS INDICATED IN THIS DETAIL.
- 5) ALL EDGES IN PAVED AREAS SHALL BE FULL DEPTH SAW CUT. ALL CUTS SHALL BE NEAT, CLEAN & STRAIGHT.
- 6) ALL PATCHES SHALL BE LEVEL (+/- 1/4") WITH & FINISHED TO MATCH EXISTING CONDITIONS.
- 7) ALL BEDDING & BACKFILL SHALL CONFORM TO ASTM D-2321, CLASS 1, & SHALL BE SC DOT NO. 789 OR NO. 57 STONE OR AS NOTED. BACKFILL OF OVEREXCAVATED AREAS SHALL CONFORM TO THIS DETAIL.
- 8) UNSUITABLE SOIL SHALL BE REMOVED, AS DIRECTED BY THE ENGINEER, & BACKFILLED W/NO. 5 STONE

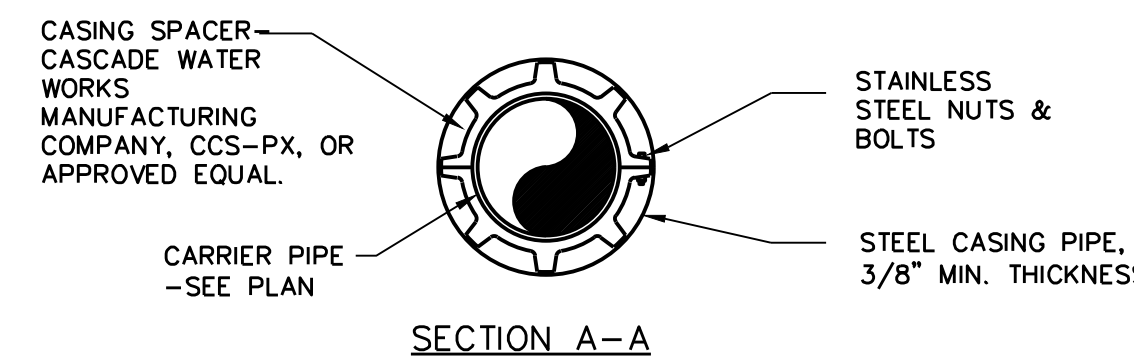
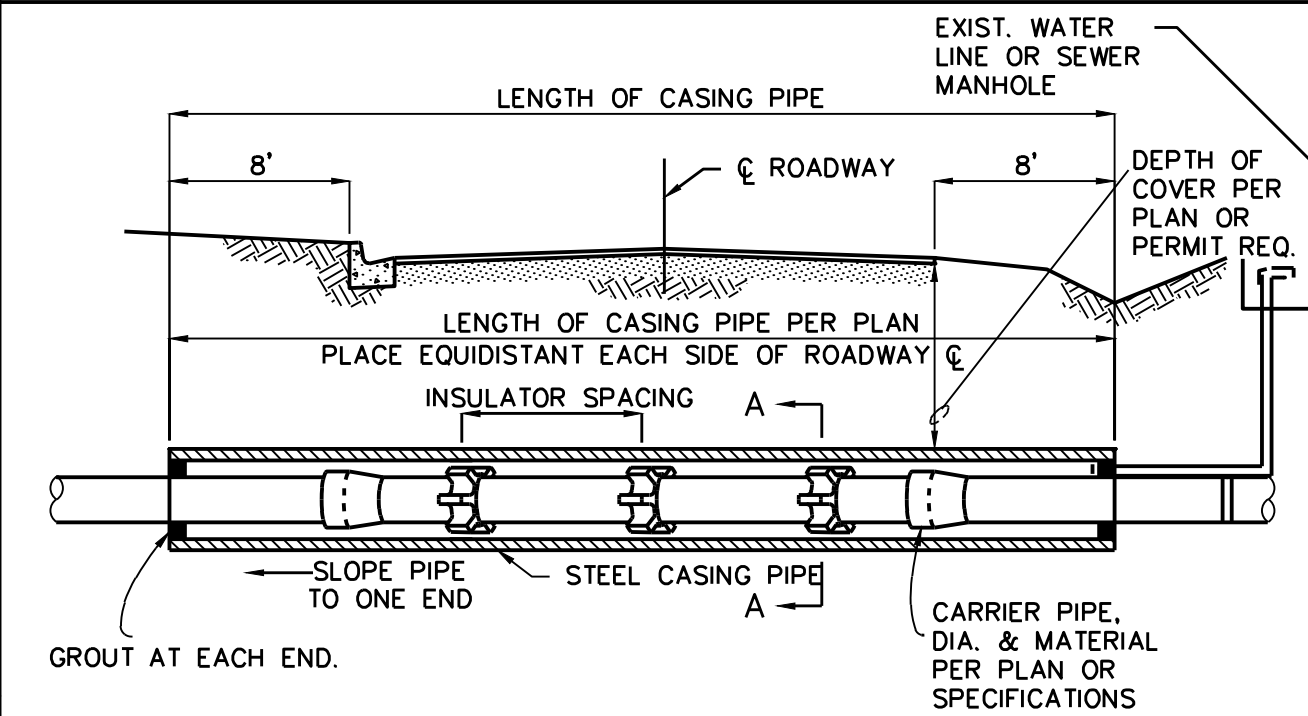
TYPICAL TRENCH SECTION FOR FLEXIBLE PIPE
NTS



FM TRENCH NOTES:

1. WET OR UNSTABLE BOTTOMS, EXCAVATE MIN. 8" BELOW TRENCH. BACKFILL WITH WASHED CRUSHED STONE.
2. ROCK BOTTOMS, EXCAVATE MIN. 6" BELOW TRENCH. BACKFILL WITH WASHED CRUSHED STONE.
3. NO ROCKS OR BOULDERS OR DEBRIS TO BE USED IN BACKFILL.
4. ALL BACKFILL MATERIAL SHALL BE SUITABLE NATIVE MATERIAL, EXCEPT AS NOTED.
5. BACKFILL SHALL BE TAMPED IN 6" LAYERS.

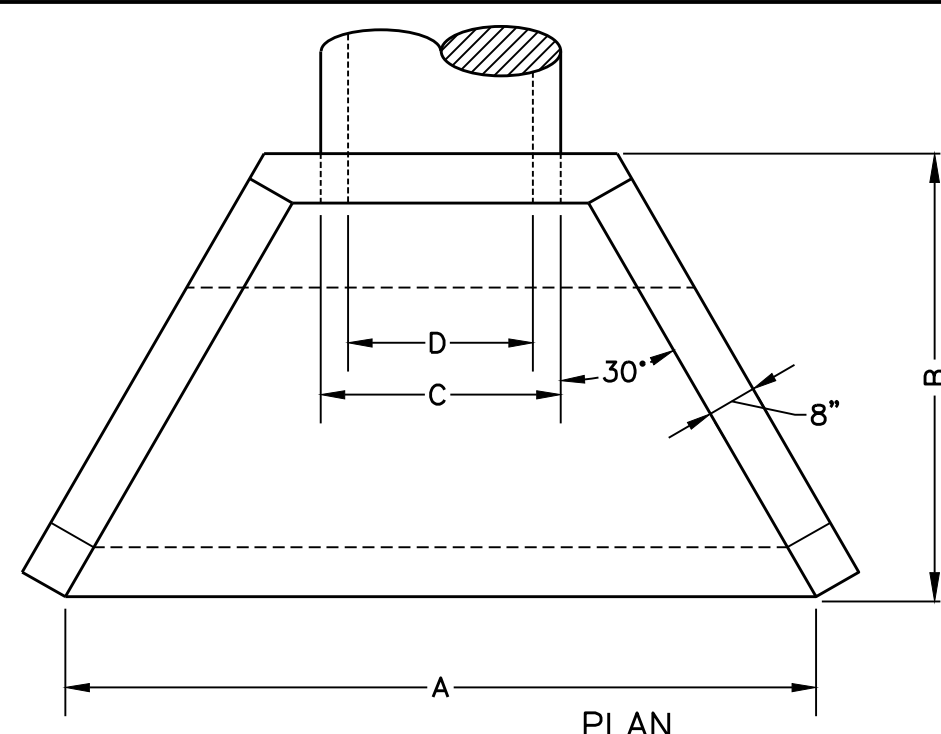
TYPICAL TRENCH FOR PROCESS WATER FM
NO SCALE



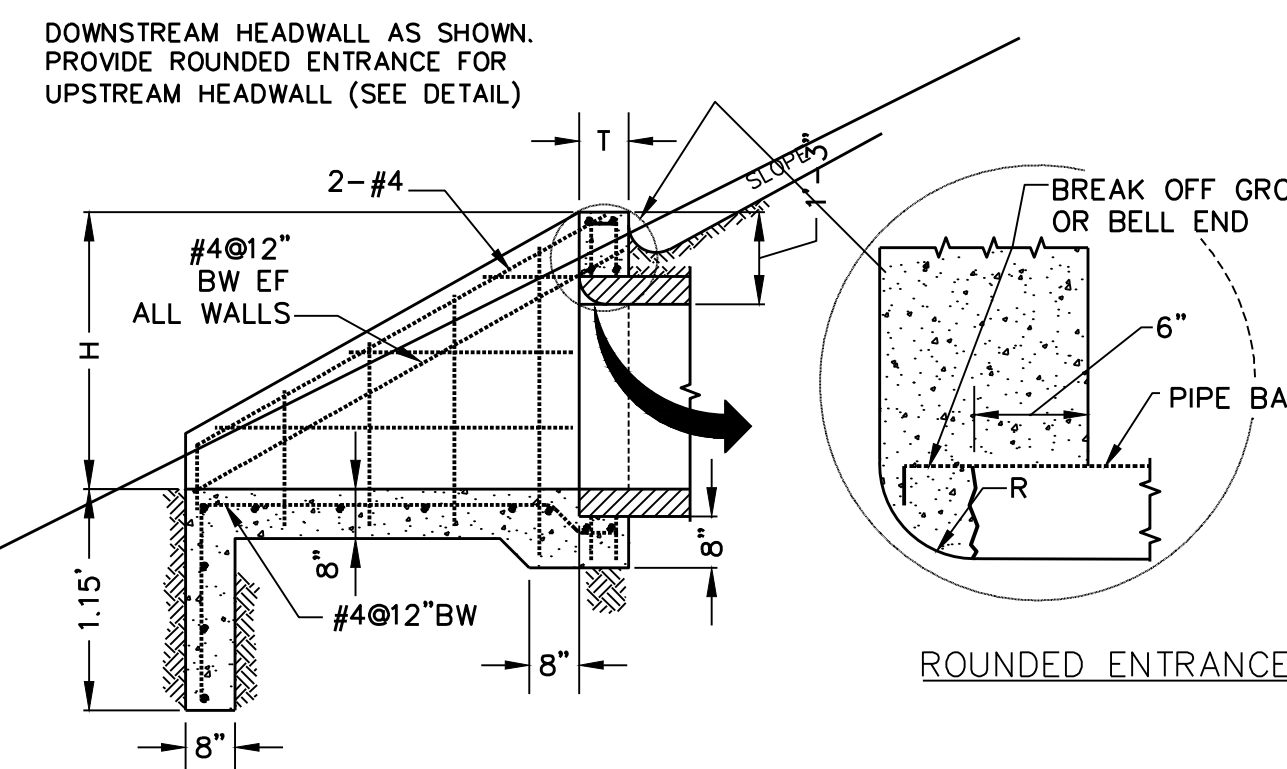
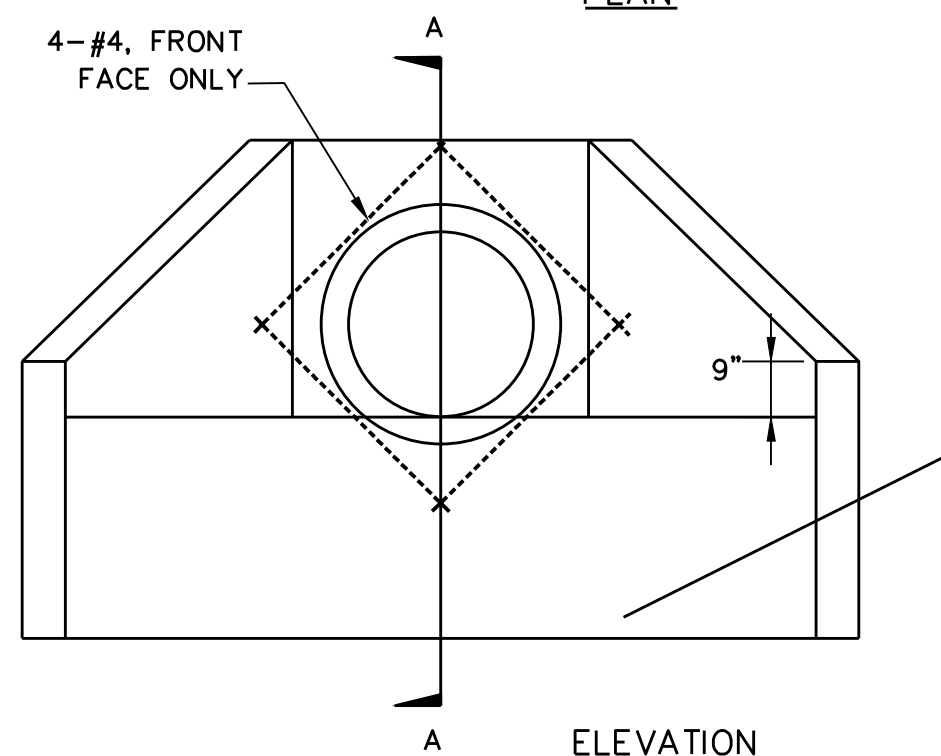
NOTES

1. CASING SPACERS SHALL BE MADE WITH SPECIAL RUNNER HEIGHTS SO AS NOT TO INTERFERE WITH PIPE JOINTS.
2. ALL CARRIER PIPES FOR WATER LINES MUST HAVE MECHANICALLY RESTRAINED JOINTS.
3. CASING SPACER SPACING SHALL BE AS REQUIRED BY THE MANUFACTURER, HOWEVER, NO LESS THAN FOUR (4) CASING SPACERS SHALL BE INSTALLED PER LENGTH OF PIPE.
4. CASING LENGTH SHALL EXTEND A MINIMUM OF 8 FEET BEYOND EITHER EDGE OF PAVEMENT OR TOE OF SLOPE, WHICHEVER IS LONGER.

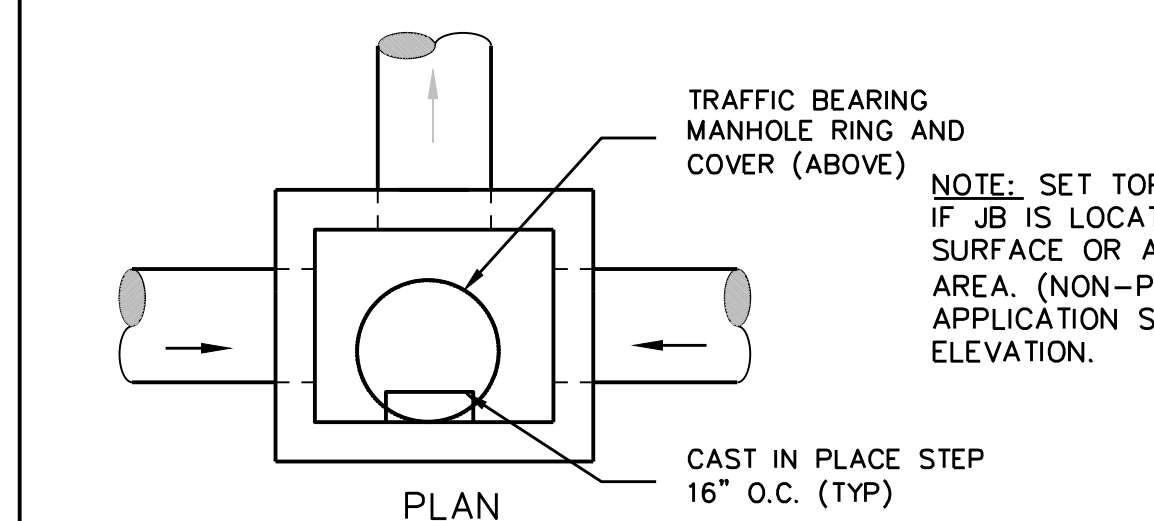
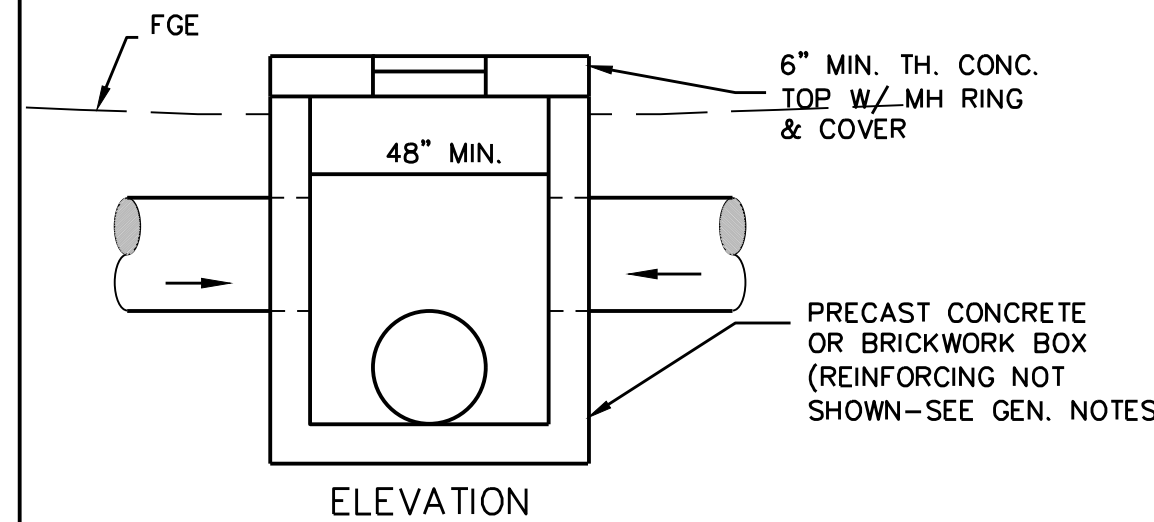
FM CASING DETAIL
NOT TO SCALE



ALL SLOPES				SLOPE 2:1		SLOPE 3:1		
D	H	R	C	A	B	A	B	
24"	3'-3"	3	5/8"	2'-7"	8'-4"	5'-0"	11'-3"	7'-6"
27"	3'-6"	4	2-11"	9'-3"	5'-6"	12'-6"	8'-3"	
30"	3'-9"	4	1/2"	3'-3"	10'-2"	6'-0"	13'-8"	9'-0"
36"	4'-3"	5	1/2"	3'-11"	12'-0"	7'-0"	16'-1"	10'-6"
42"	4'-9"	6	3/8"	4'-7"	13'-10"	8'-0"	18'-0"	12'-0"



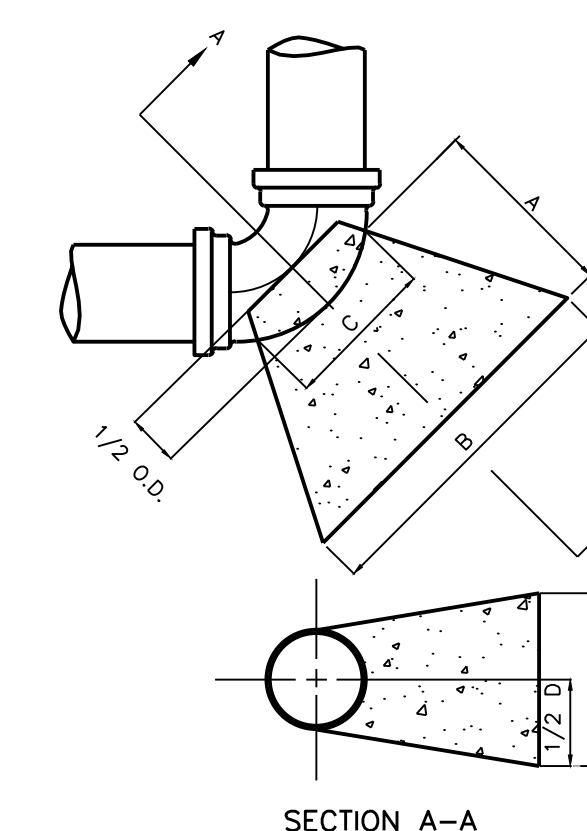
CIP CONCRETE HEADWALL
NO SCALE



JUNCTION BOX DETAIL
NO SCALE

NOTE

SOIL CONDITIONS SHALL BE VERIFIED BY LOCAL WATER DISTRICT INSPECTOR BEFORE DESIGN IS IMPLEMENTED.



CONCRETE THRUST BLOCK DETAIL
N.T.S.

DESIGN DATA:

- DIMENSIONS OF THRUST BLOCK IN FEET BASED ON 2000 POUNDS PER SQUARE FOOT SOIL BEARING PRESSURE AND 200 POUNDS PER SQUARE INCH TEST PRESSURE ACTUAL INSIDE DIAMETER OF DUCTILE IRON PIPE, CLASS 51 USED AS STANDARD.
- CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS. HIGH EARLY CONCRETE SHALL BE USED.

MINIMUM DIMENSIONS FOR CONCRETE BLOCKING

BEND	SIZE	VOLUME				
		A	B	C	D	
11 1/4"	6	1'-0"	2'-0"	4'	1'-0"	0.05
	8	1'-0"	2'-0"	5'	1'-0"	0.05
	10	1'-0"	2'-0"	6'	1'-0"	0.05
	12	1'-0"	2'-0"	7'	1'-0"	0.05
	14	2'-0"	2'-0"	11'	1'-6"	0.16
22 1/2"	16	1'-0"	2'-0"	1'-0"	2'-0"	0.22
	20	2'-0"	2'-0"	1'-3"	2'-0"	0.32
	24	2'-0"	3'-0"	1'-6"	3'-0"	0.50
	6	1'-0"	2'-0"	6'	1'-0"	0.05
	8	1'-0"	2'-0"	7'	1'-0"	0.05
45°	10	1'-0"	2'-0"	8'	1'-6"	0.08
	12	2'-0"	2'-0"	10'	2'-0"	0.11
	14	2'-0"	3'-0"	11'	2'-0"	0.29
	16	2'-0"	4'-0"	1'-0"	2'-0"	0.37
	20	2'-0"	4'-0"	1'-3"	2'-0"	0.56
90°	24	3'-0"	4'-6"	1'-6"	4'-0"	1.33
	6	1'-0"	2'-0"	6'	1'-0"	0.05
	8	1'-0"	2'-0"	7'	1'-0"	0.10
	10	2'-0"	3'-0"	9'	2'-0"	0.28
	12	2'-0"	3'-0"	11'	3'-0"	0.44
TEES & PLUGS	14	2'-0"	4'-0"	11'	3'-0"	0.55
	16	2'-0"	4'-0"	1'-0"	2'-0"	0.70
	20	2'-0"	4'-0"	1'-3"	2'-0"	1.19
	24	4'-0"	9'-0"	2'-6"	4'-4"	2.84
	24	5'-0"	8'-0"	3'-4"	8'-0"	8.40
TEES & PLUGS	6	1'-0"	2'-0"	10'	1'-6"	0.08
	8	1'-0"	2'-6"	1'-1"	2'-0"	0.23
	10	2'-0"	3'-0"	1'-3"	2'-0"	0.41
	12	2'-6"	3'-9"	1'-7"	3'-0"	0.75
	14	3'-0"	5'-0"	2'-0"	3'-0"	1.17
TEES & PLUGS	16	3'-0"	5'-0"	2'-2"	4'-0"	1.59
	20	4'-0"	8'-0"	2'-2"	4'-0"	4.19
TEES & PLUGS	24	6'-0"	9'-0"	3'-4"	5'-0"	6.85



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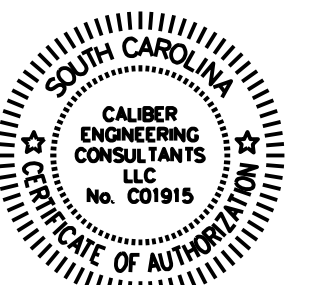
PERMITTEE / OPERATOR:



HEIDELBERG MATERIALS
SOUTHEAST AGG, LLC.

7 WEST POINT BLVD.
MAULDIN, SC 29662

OWNER CONTACT:
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MANNING QUARRY

MINE PERMIT # _____

7900 MONTICELLO RD.
COLUMBIA, SC 29203

TAX MAP NO. R07700-01-05

DATE	REV	DESCRIPTION
05-27-25	A	ISSUED FOR SCDES REVIEW

PROJECT NO: 251-001
CAD DWG: _____
DRAWN BY: RCH
CHECKED BY: GAJ

MISC. SITE CONSTRUCTION DETAILS