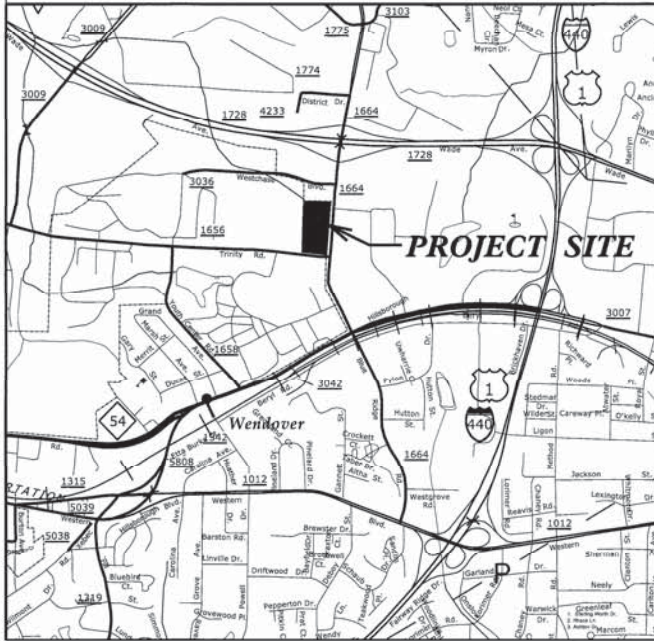


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 P:\Common\_P\Projects\NCDOT\Stormwater\3-PCC\FCC-Retrofits\202\6.0 Working Docs\Projects\Wake\WakeCMY\6.0 Working Docs\302\_Plan\WakeCMY\_drn\_PSH\_01.dgn  
 iso.ncar.thur

**CONTRACT: 34625.2.FD52**      **TIP PROJECT: R-4436EF**

See Sheet 1-A For Index of Sheets



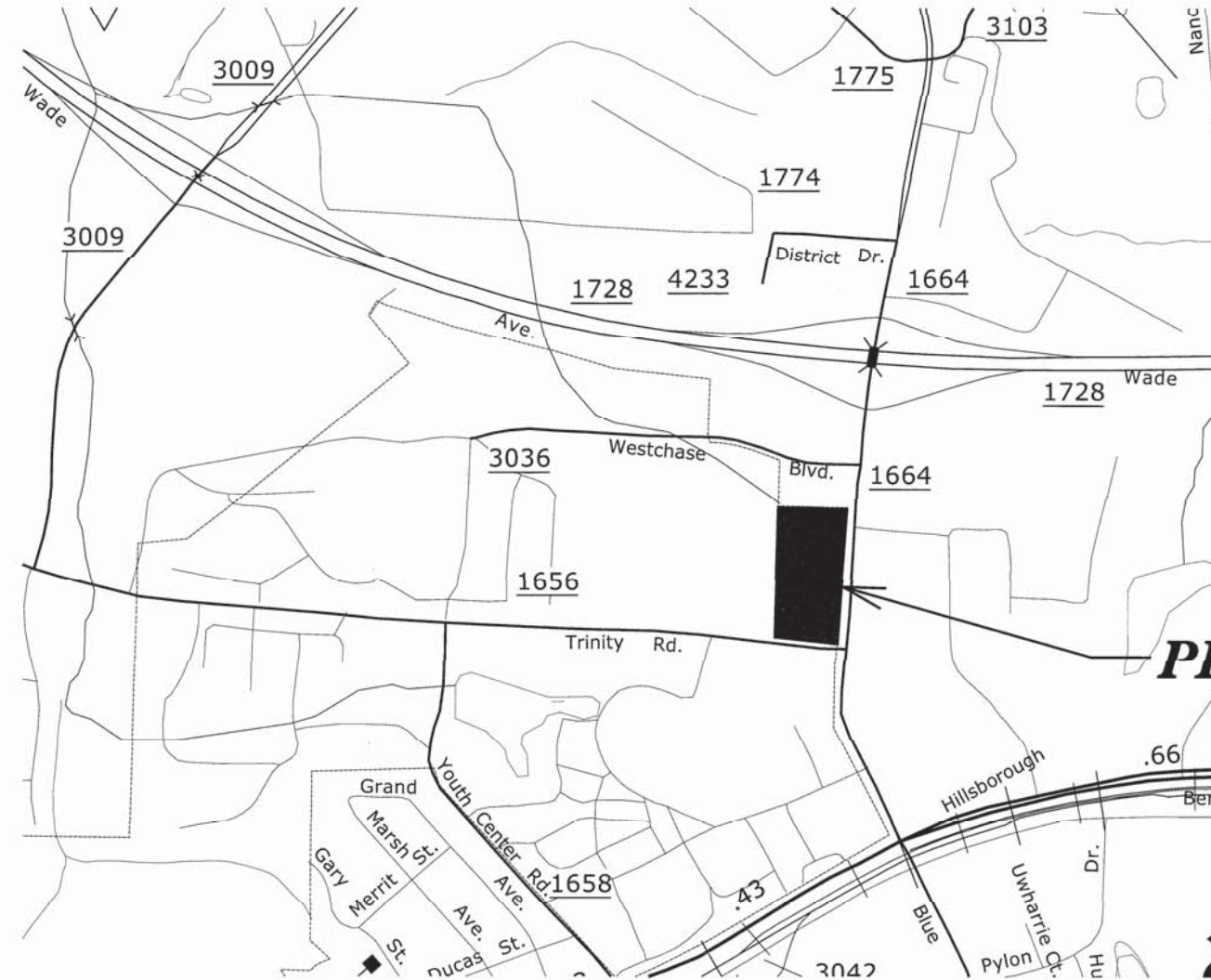
VICINITY MAP

STATE OF NORTH CAROLINA  
 DIVISION OF HIGHWAYS

**WAKE COUNTY**

**LOCATION: WAKE COUNTY MAINTENANCE YARD  
 AT BLUE RIDGE ROAD & TRINITY ROAD**

**TYPE OF WORK: GRADING, STORM DRAINAGE, STORMWATER DRY DETENTION BASIN,  
 EROSION CONTROL, AND SEEDING & MULCHING**



**PROJECT SITE**

STATE	STATE DESIGN REPRESENTATIVE NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-4436EF	1	10
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
34625.2.FD52	STP-1656 (3)		



**GRAPHIC SCALES**

SCALE VARIES  
 SEE PLANS



LETTING DATE:  
 MAY 28, 2014

Prepared by  
**URS**  
 URS Corporation - North Carolina  
 Licensure Number C-2243  
 1600 Perimeter Park Drive  
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JASON SITES, PE  
 PROJECT ENGINEER

PROJECT DESIGN ENGINEER

**HYDRAULICS ENGINEER**

SIGNATURE: \_\_\_\_\_ P.E.

NCDOT CONTACT

BRIAN LIPSCOMB, P.E.  
 HIGHWAY STORMWATER PROGRAM

DIVISION OF HIGHWAYS  
 STATE OF NORTH CAROLINA  
 HYDRAULICS UNIT  
 STORMWATER GROUP



PROJECT ENGINEER



**INDEX OF SHEETS**

SHEET NUMBER	SHEET DESCRIPTION
1	TITLE SHEET
1-A	INDEX OF SHEETS, GENERAL NOTES, AND LIST OF STANDARD DRAWINGS
1-B	CONVENTIONAL SYMBOLS
2-A	DETAIL SHEET 1
2-B	DETAIL SHEET 2
2-C	DETAIL SHEET 3
3	SUMMARY OF QUANTITIES
4-A	PLAN SHEET
4-B	PROFILE SHEET
EC-1	EROSION CONTROL PLANS

**2012 ROADWAY ENGLISH STANDARD DRAWINGS**

The following Roadway Standards as appear in "Roadway Standard Drawings" Highway Design Branch - N. C. Department of Transportation - Raleigh, N. C., Dated January, 2012 are applicable to this project and by reference hereby are considered a part of these plans:

STD.NO.	TITLE
DIVISION 2 - EARTHWORK	
200.02	Method of Clearing - Method II
DIVISION 3 - PIPE CULVERTS	
300.01	Method of Pipe Installation
DIVISION 8 - INCIDENTALS	
840.00	Concrete Base Pad for Drainage Structures
840.05	Brick Open Throat Catch Basin - 12" thru 48" Pipe
840.14	Concrete Drop Inlet - 12" thru 30" Pipe
840.16	Drop Inlet Frame and Grates - for use with Std. Dwg 840.14 and 840.15
840.25	Anchorage for Frames - Brick or Concrete or Precast
840.31	Concrete Junction Box - 12" thru 66" Pipe
840.36	Traffic Bearing Grated Drop Inlet - for Steel (840.37) Double Frame and Grates
840.37	Steel Grate and Frame
840.54	Manhole Frame and Cover
840.66	Drainage Structure Steps

**GENERAL NOTES**

**GRADING:**

THE GRADE LINES SHOWN DENOTE THE FINISHED ELEVATION OF THE PROPOSED OR FUTURE SURFACING AT GRADE POINTS SHOWN ON THE TYPICAL SECTIONS. GRADE LINES MAY BE ADJUSTED AT THEIR BEGINNING AND ENDING AND AT STRUCTURES AS DIRECTED BY THE ENGINEER IN ORDER TO SECURE A PROPER TIE-IN.

**CLEARING:**

CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD II.

**SIDE ROADS:**

THE CONTRACTOR WILL BE REQUIRED TO DO ALL NECESSARY WORK TO PROVIDE SUITABLE CONNECTIONS WITH ALL ROADS, STREETS, AND DRIVES ENTERING THIS PROJECT. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PARTICULAR ITEMS INVOLVED.

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

# CONVENTIONAL PLAN SHEET SYMBOLS

12/05/11

**Note: Not to Scale**

\*S.U.E. = *Subsurface Utility Engineering*

### BOUNDARIES AND PROPERTY:

State Line	-----
County Line	-----
Township Line	-----
City Line	-----
Reservation Line	-----
Property Line	-----
Existing Iron Pin	○ <sub>EP</sub>
Property Corner	-----
Property Monument	□ <sub>ECM</sub>
Parcel/Sequence Number	②③
Existing Fence Line	-x-x-x-
Proposed Woven Wire Fence	○
Proposed Chain Link Fence	□
Proposed Barbed Wire Fence	◇
Existing Wetland Boundary	WLB
Proposed Wetland Boundary	WLB
Existing Endangered Animal Boundary	EAB
Existing Endangered Plant Boundary	EPIB
Known Soil Contamination: Area or Site	☠
Potential Soil Contamination: Area or Site	?

### BUILDINGS AND OTHER CULTURE:

Gas Pump Vent or U/G Tank Cap	○
Sign	○ <sub>S</sub>
Well	○ <sub>W</sub>
Small Mine	⋈
Foundation	▭
Area Outline	▭
Cemetery	⊕
Building	▭
School	▭
Church	▭
Dam	▭

### HYDROLOGY:

Stream or Body of Water	~~~~~
Hydro, Pool or Reservoir	▭
Jurisdictional Stream	▭ <sub>JS</sub>
Buffer Zone 1	BZ 1
Buffer Zone 2	BZ 2
Flow Arrow	←
Disappearing Stream	→
Spring	○
Wetland	⋈
Proposed Lateral, Tail, Head Ditch	→
False Sump	▽

### RAILROADS:

Standard Gauge	-----
RR Signal Milepost	○ <sub>MILEPOST 35</sub>
Switch	□ <sub>SWITCH</sub>
RR Abandoned	-----
RR Dismantled	-----

### RIGHT OF WAY:

Baseline Control Point	◆
Existing Right of Way Marker	△
Existing Right of Way Line	-----
Proposed Right of Way Line	○ <sub>R/W</sub>
Proposed Right of Way Line with Iron Pin and Cap Marker	○ <sub>R/W</sub> ▲
Proposed Right of Way Line with Concrete or Granite R/W Marker	▲ ○ <sub>R/W</sub>
Proposed Control of Access Line with Concrete C/A Marker	▲ ○ <sub>C/A</sub>
Existing Control of Access	○ <sub>C/A</sub>
Proposed Control of Access	○ <sub>C/A</sub>
Existing Easement Line	E
Proposed Temporary Construction Easement	E
Proposed Temporary Drainage Easement	TDE
Proposed Permanent Drainage Easement	PDE
Proposed Permanent Drainage / Utility Easement	DUE
Proposed Permanent Utility Easement	PUE
Proposed Temporary Utility Easement	TUE
Proposed Aerial Utility Easement	AUE
Proposed Permanent Easement with Iron Pin and Cap Marker	◆

### ROADS AND RELATED FEATURES:

Existing Edge of Pavement	-----
Existing Curb	-----
Proposed Slope Stakes Cut	C
Proposed Slope Stakes Fill	F
Proposed Curb Ramp	○ <sub>CR</sub>
Existing Metal Guardrail	-----
Proposed Guardrail	-----
Existing Cable Guiderail	-----
Proposed Cable Guiderail	-----
Equality Symbol	⊕
Pavement Removal	▨

### VEGETATION:

Single Tree	○
Single Shrub	○
Hedge	~~~~~
Woods Line	~~~~~

Orchard	⊛
Vineyard	▭ <sub>Vineyard</sub>

### EXISTING STRUCTURES:

MAJOR:	
Bridge, Tunnel or Box Culvert	▭ <sub>CONC</sub>
Bridge Wing Wall, Head Wall and End Wall	▭ <sub>CONC WW</sub>
MINOR:	
Head and End Wall	▭ <sub>CONC HW</sub>
Pipe Culvert	-----
Footbridge	-----
Drainage Box: Catch Basin, DI or JB	□ <sub>CB</sub>
Paved Ditch Gutter	-----
Storm Sewer Manhole	○ <sub>S</sub>
Storm Sewer	-----

### UTILITIES:

POWER:	
Existing Power Pole	●
Proposed Power Pole	○
Existing Joint Use Pole	●
Proposed Joint Use Pole	○
Power Manhole	⊕
Power Line Tower	⊗
Power Transformer	⊗
U/G Power Cable Hand Hole	▭
H-Frame Pole	●
Recorded U/G Power Line	-----
Designated U/G Power Line (S.U.E.*)	-----

### TELEPHONE:

Existing Telephone Pole	●
Proposed Telephone Pole	○
Telephone Manhole	⊕
Telephone Booth	▭
Telephone Pedestal	▭
Telephone Cell Tower	⊗
U/G Telephone Cable Hand Hole	▭
Recorded U/G Telephone Cable	-----
Designated U/G Telephone Cable (S.U.E.*)	-----
Recorded U/G Telephone Conduit	-----
Designated U/G Telephone Conduit (S.U.E.*)	-----
Recorded U/G Fiber Optics Cable	-----
Designated U/G Fiber Optics Cable (S.U.E.*)	-----

### WATER:

Water Manhole	⊕
Water Meter	○
Water Valve	⊗
Water Hydrant	⊕
Recorded U/G Water Line	-----
Designated U/G Water Line (S.U.E.*)	-----
Above Ground Water Line	----- <sub>A/G Water</sub>

### TV:

TV Satellite Dish	⊗
TV Pedestal	▭
TV Tower	⊗
U/G TV Cable Hand Hole	▭
Recorded U/G TV Cable	----- <sub>TV</sub>
Designated U/G TV Cable (S.U.E.*)	----- <sub>TV</sub>
Recorded U/G Fiber Optic Cable	----- <sub>TV FO</sub>
Designated U/G Fiber Optic Cable (S.U.E.*)	----- <sub>TV FO</sub>

### GAS:

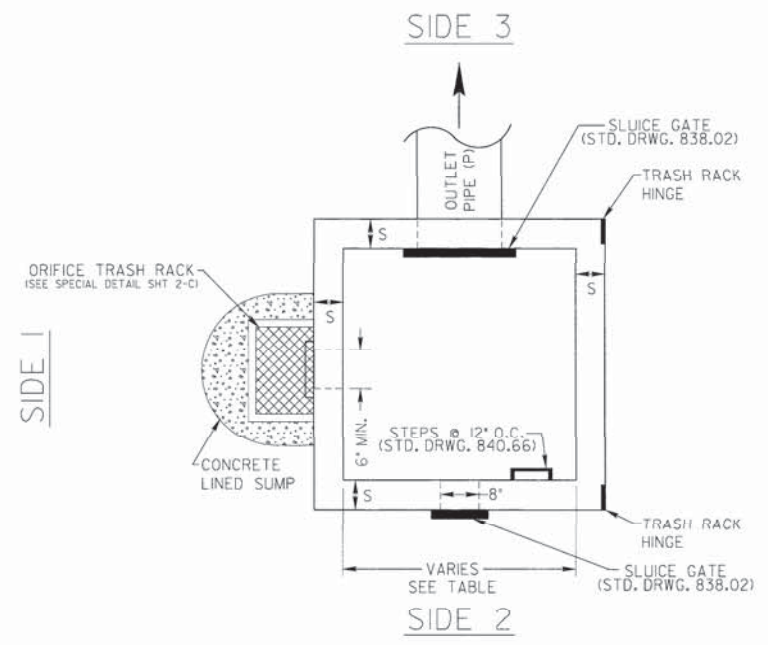
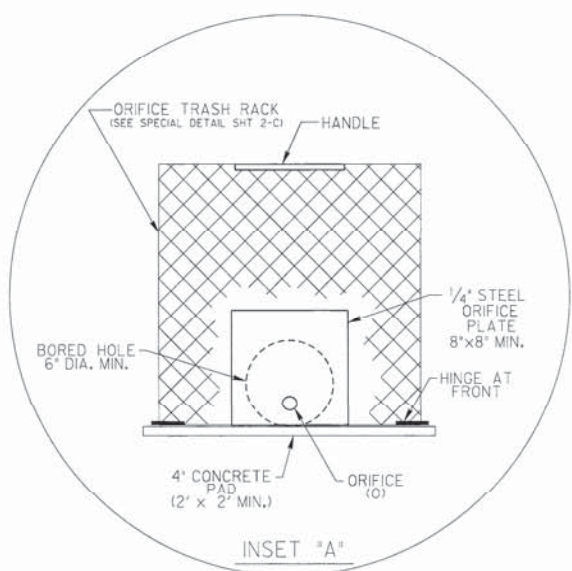
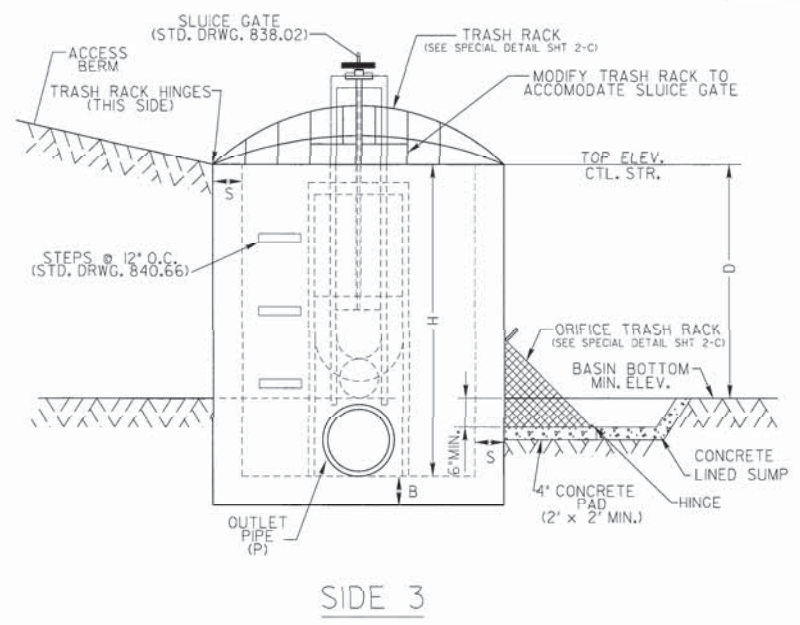
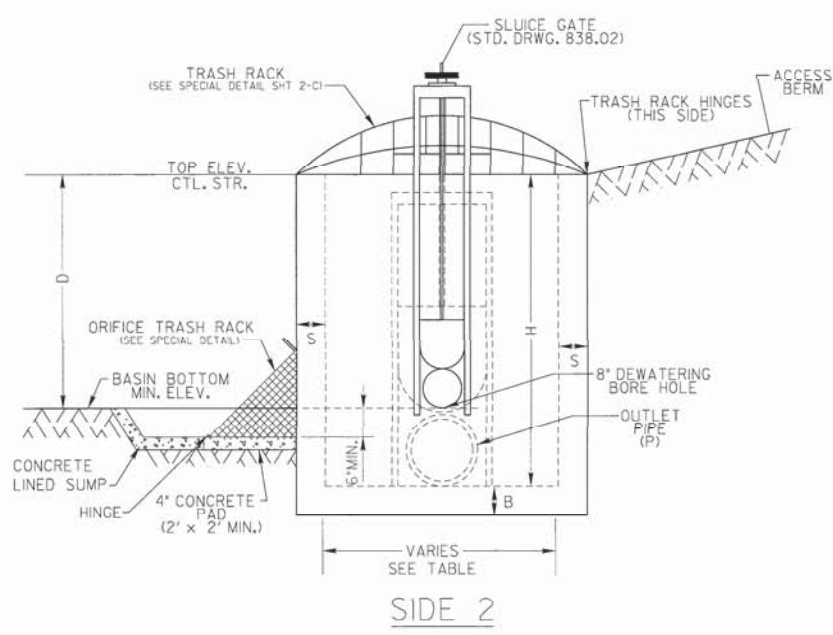
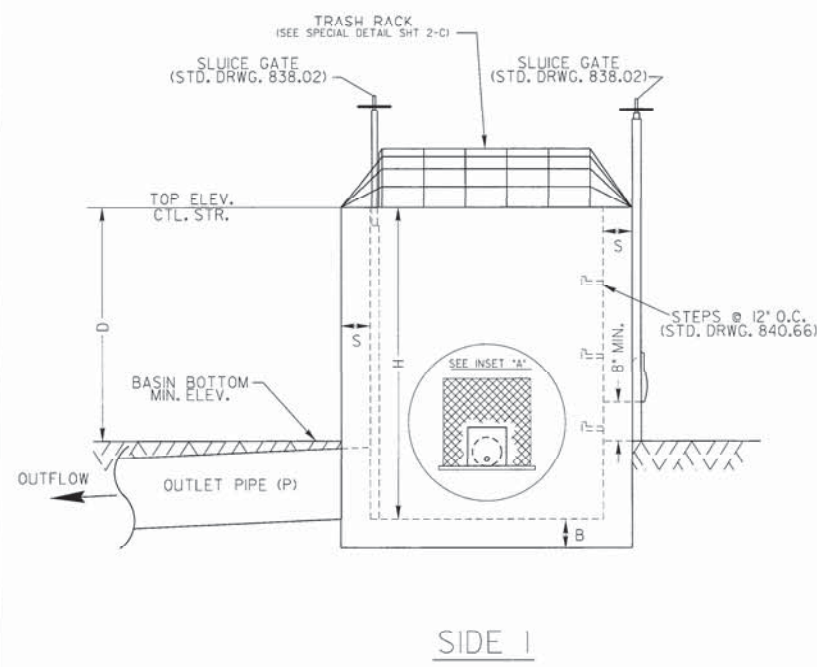
Gas Valve	◇
Gas Meter	⊕
Recorded U/G Gas Line	----- <sub>G</sub>
Designated U/G Gas Line (S.U.E.*)	----- <sub>G</sub>
Above Ground Gas Line	----- <sub>A/G Gas</sub>

### SANITARY SEWER:

Sanitary Sewer Manhole	⊕
Sanitary Sewer Cleanout	⊕
U/G Sanitary Sewer Line	----- <sub>SS</sub>
Above Ground Sanitary Sewer	----- <sub>A/G Sanitary Sewer</sub>
Recorded SS Forced Main Line	----- <sub>FSS</sub>
Designated SS Forced Main Line (S.U.E.*)	----- <sub>FSS</sub>

### MISCELLANEOUS:

Utility Pole	●
Utility Pole with Base	□
Utility Located Object	○
Utility Traffic Signal Box	▭
Utility Unknown U/G Line	----- <sub>U/L</sub>
U/G Tank; Water, Gas, Oil	▭
Underground Storage Tank, Approx. Loc.	▭ <sub>UST</sub>
A/G Tank; Water, Gas, Oil	▭
Geoenvironmental Boring	⊗
U/G Test Hole (S.U.E.*)	⊗
Abandoned According to Utility Records	AATUR
End of Information	E.O.I.

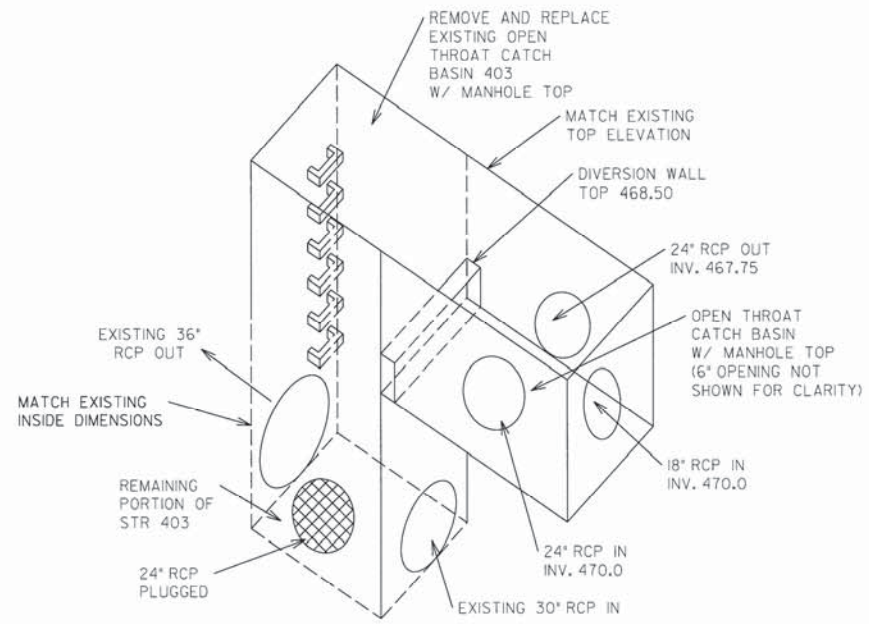


PLAN VIEW  
TRASH RACK NOT SHOWN FOR CLARITY

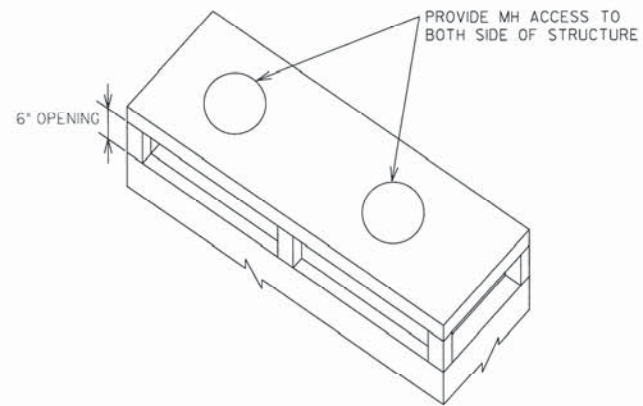
DRAWDOWN STRUCTURE - STR. NO. 108  
N.T.S.

MINIMUM DIMENSIONS FOR DRY DETENTION/HAZARDOUS SPILL BASIN DRAWDOWN STRUCTURE														
STATION	STRUCTURE NUMBER	S (INCHES) 6" MIN.	B (INCHES) 6" MIN.	BASIN BOTTOM MINIMUM ELEV.	TOP ELEVATION CONTROL STRUCTURE	MAX. STORAGE DEPTH (D) FT	INV. ELEV. CTL. STR.	CTL. STR. DIMENSIONS (W x L x H) INCHES	ORIFICE DIAMETER (O) INCHES	ORIFICE INV. ELEV.	6" BORED HOLE INV. ELEV. (INSET A)	OUTLET PIPE DIAMETER (P) INCHES	OUTLET PIPE SLUICE_GATE INV. ELEV.	8" DEWATERING SLUICE_GATE INV. ELEV. (SIDE 2)
N/A	DDB/HSB	6	12	465.50	468.00	2.5	462.50	60 x 60 x 66	2	465.10	465.00	24	462.50	465.50

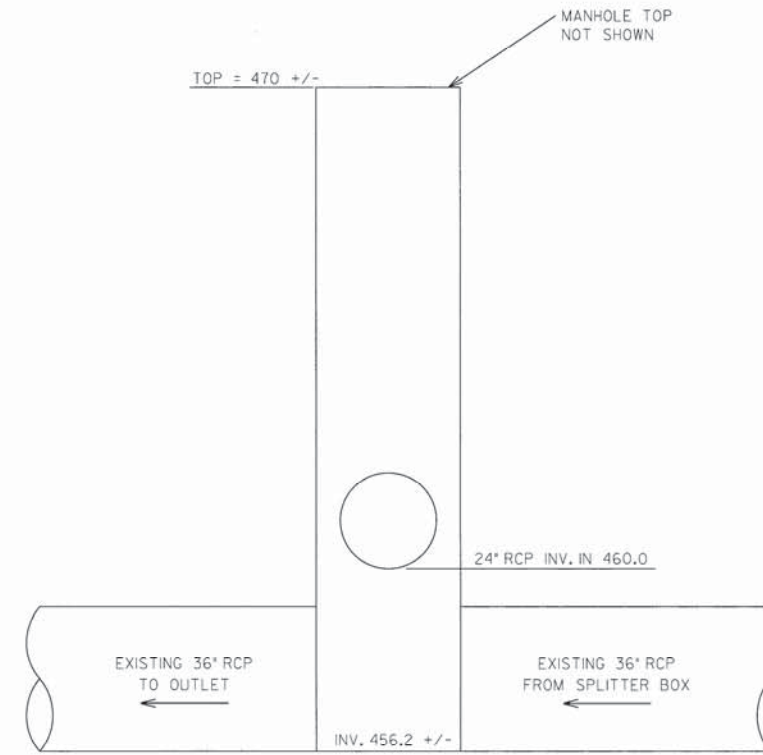
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SPLITTER BOX - STR. NO. 403  
N.T.S.



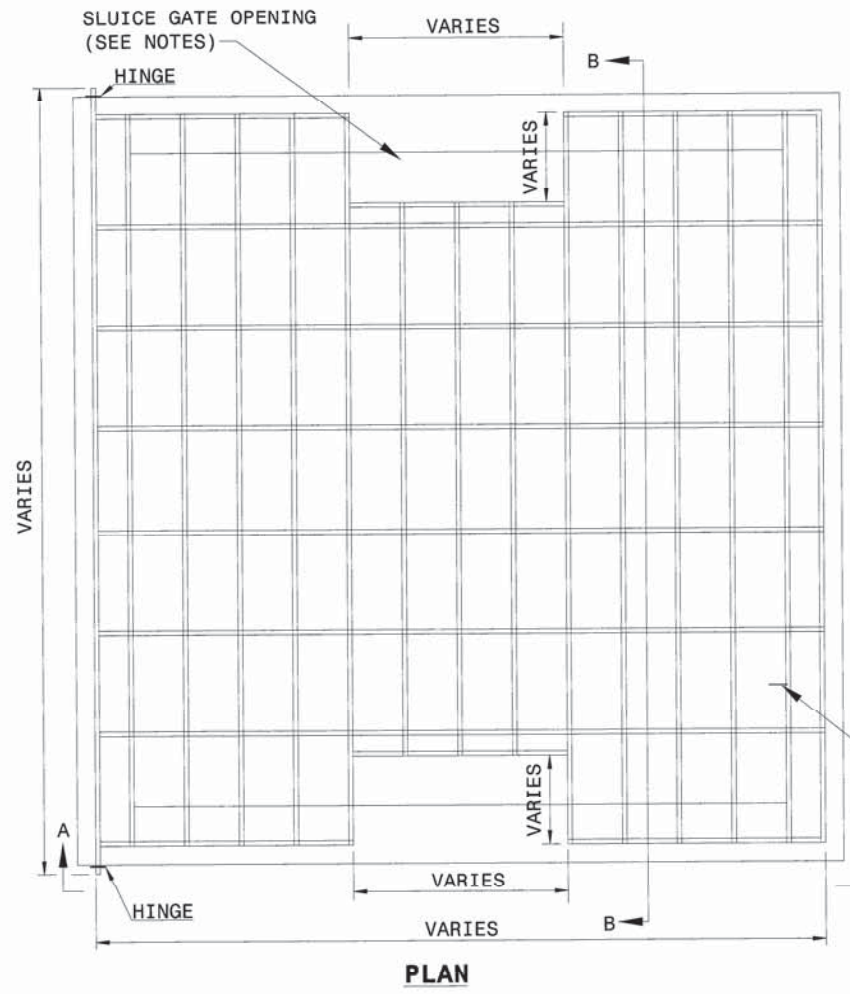
TOP SLAB - STR. NO. 403  
N.T.S.



STR. NO. 404  
N.T.S.

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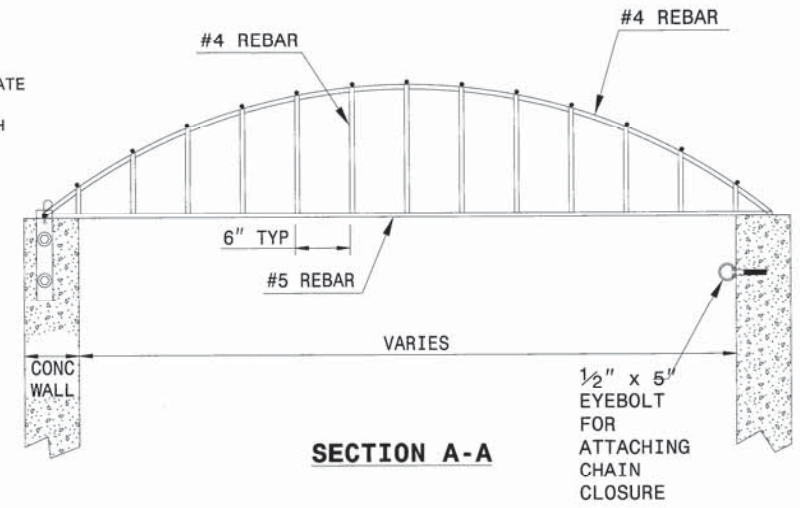


- RISER TRASH RACK NOTES:**
1. ALL JOINTS SHALL BE FULLY WELDED AROUND JOINT WITH A MINIMUM OF A 1/4" BEAD.
  2. IF BOLTS ARE ANCHORED IN CONCRETE, FOLLOW STD. DWG. 862.03 AND 862.04 FOR ANCHORING PROCEDURE.
  3. EYEBOLT FOR CHAIN CLOSURE SHALL BE INSTALLED BY THE SAME METHOD AS THE HINGE PLATE BOLTS.
  4. RACK AND HARDWARE SHALL BE ALUMINUM OR REBAR AND GALVANIZED IN ACCORDANCE WITH ASTM A-153.
  5. PROVIDE OPENING IN TRASH RACK TO ACCOMMODATE SLUICE GATE ON THE OUTLET PIPE AND SLUICE GATE ON SIDE 2. ENSURE TRASH RACK OPENS FREELY AND WITHOUT INTERFERENCE WITH SLUICE GATES SIDE 2 AND SIDE 3.

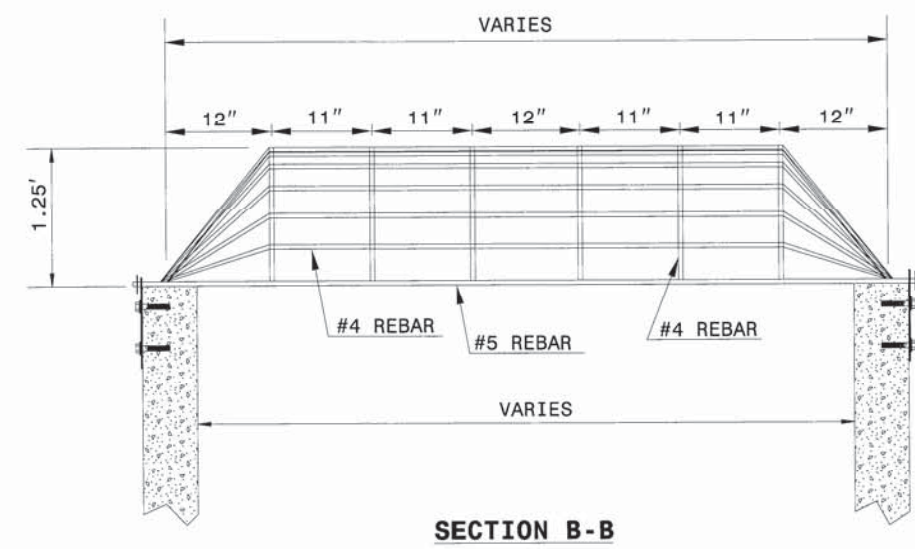
EYEBOLT  
(MOVE AS NECESSARY)

**PLAN**

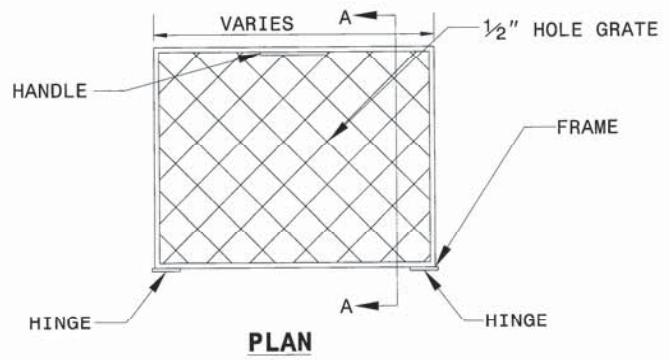
**REBAR TRASH RACK  
NOT TO SCALE**



**SECTION A-A**

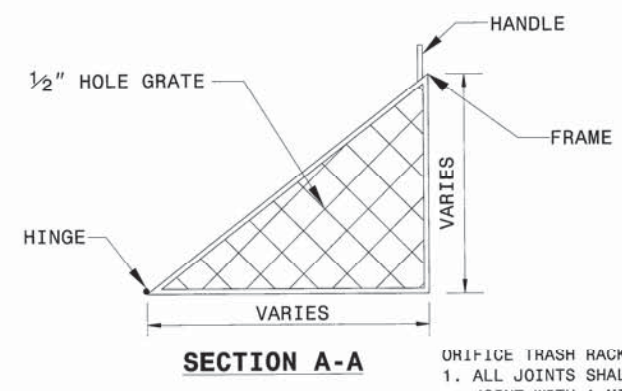


**SECTION B-B**



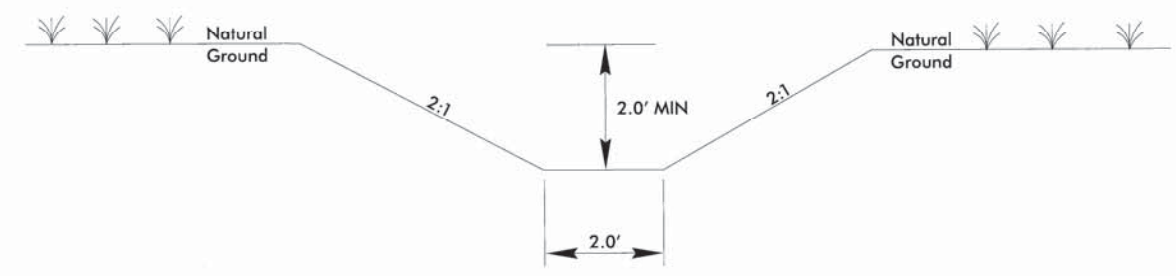
**PLAN**

**REMOVEABLE ORIFICE TRASH RACK  
NOT TO SCALE**



**SECTION A-A**

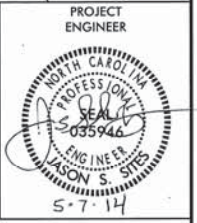
- ORIFICE TRASH RACK NOTES:**
1. ALL JOINTS SHALL BE FULLY WELDED AROUND JOINT WITH A MINIMUM OF A 1/4" BEAD.
  2. IF BOLTS ARE ANCHORED IN CONCRETE, FOLLOW STD. DWG. 862.03 AND 862.04 FOR ANCHORING PROCEDURE.
  3. REMOVEABLE ORIFICE TRASH RACK SHALL BE ATTACHED TO CONCRETE BOX BY HINGE OR SLIDE RAIL SYSTEM.
  4. RACK AND HARDWARE SHALL BE ALUMINUM OR GALVANIZED IN ACCORDANCE WITH ASTM A-153.



**SWALE DETAIL  
N.T.S**

5/14/09

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### PIPE SCHEDULE

STRUCTURE ID.		(FROM) INVERT ELEVATION	(TO) INVERT ELEVATION	RCP (FT)		REMARKS
FROM	TO			18"	24"	
105	403	473.57	470.0		160	
403	106	467.75	467.1		67	
106	107	467.1	466.75		11	TO DDBHSB FOREBAY
502	503	475.0	472.25	180		
503	403	472.0	470.0	50		
108	404	462.5	460.0		32	OUTLET STRUCTURE TO EXISTING 36" RCP
TOTALS (FEET)				230	270	PIPE LENGTH MEASURED FROM CENTER OF STRUCTURE

### EARTHWORK

TYPE	QUANTITY CU YDS
UNCLASSIFIED EXCAVATION	500
EMBANKMENT	350
WASTE	150

APPROXIMATE EARTHWORK QUANTITIES ONLY.

### CENTIPEDE SOD

LOCATION	QUANTITY SQ YDS
DDBHSB	900

### INLET SCHEDULE

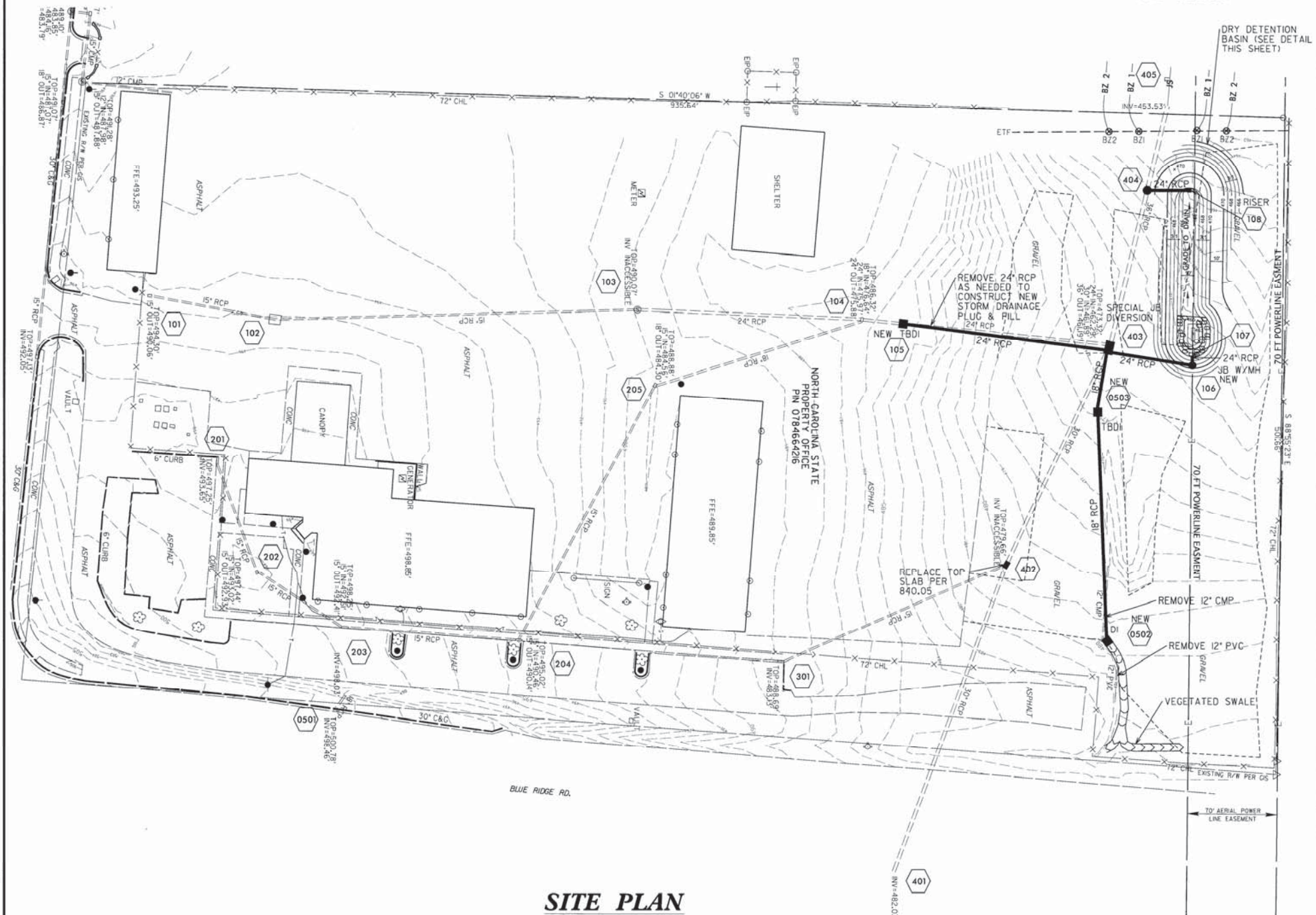
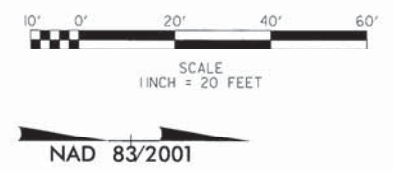
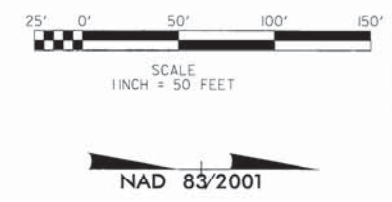
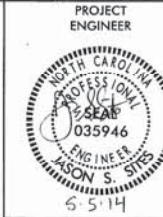
STRUCTURE NO.	STANDARD	TOP ELEV	BOX INVERT*	INV IN	IN OUT	FRAME AND COVERS	BOX DIMENSION (INSIDE)	COMMENT
105	840.36	485.25	473.57	473.57	473.57	840.37	6' x 6'	INVERTS ESTIMATED ON CALCULATED INVERTS OF EX. 24". SET EXISTING INVERT ELEVATION. EXTRA DEPTH TBDI.
106	840.31	470.35	467.1	467.10	467.10	840.54	3' x 3'	
108							5' x 5'	REFER TO DETAIL ON SHEET 2-A AND PROJECT SPECIAL PROVISIONS
502	840.14	477.5	475.0	NA	475.0	840.16	3' x 2'	TBDI
503	840.36	474.5	471.83	472.25	471.83	840.37	3' x 2'	TBDI
403	840.05	MATCH EX. 403 (473.32)	467.75/ 461.19	470.0 (18")	467.75	840.54	4' x 2'8"	(2) OTCB (6" OPENING) SPLITTER BOX @ EX. 403. SEE DETAIL SHEET 2-B (2) MANHOLE COVERS
				470.0 (24")				
404	840.31	470	456.2	456.2 (36")	456.2	840.54	4' x 4'	INVERTS ESTIMATED ON CALCULATED INVERTS OF EX. 36" SET EXISTING INVERT ELEVATION EXTRA DEPTH JB.
				460.0 (24")				
TOTAL	7							

### PIPE REMOVAL

	QUANTITY LF
12" PVC	10

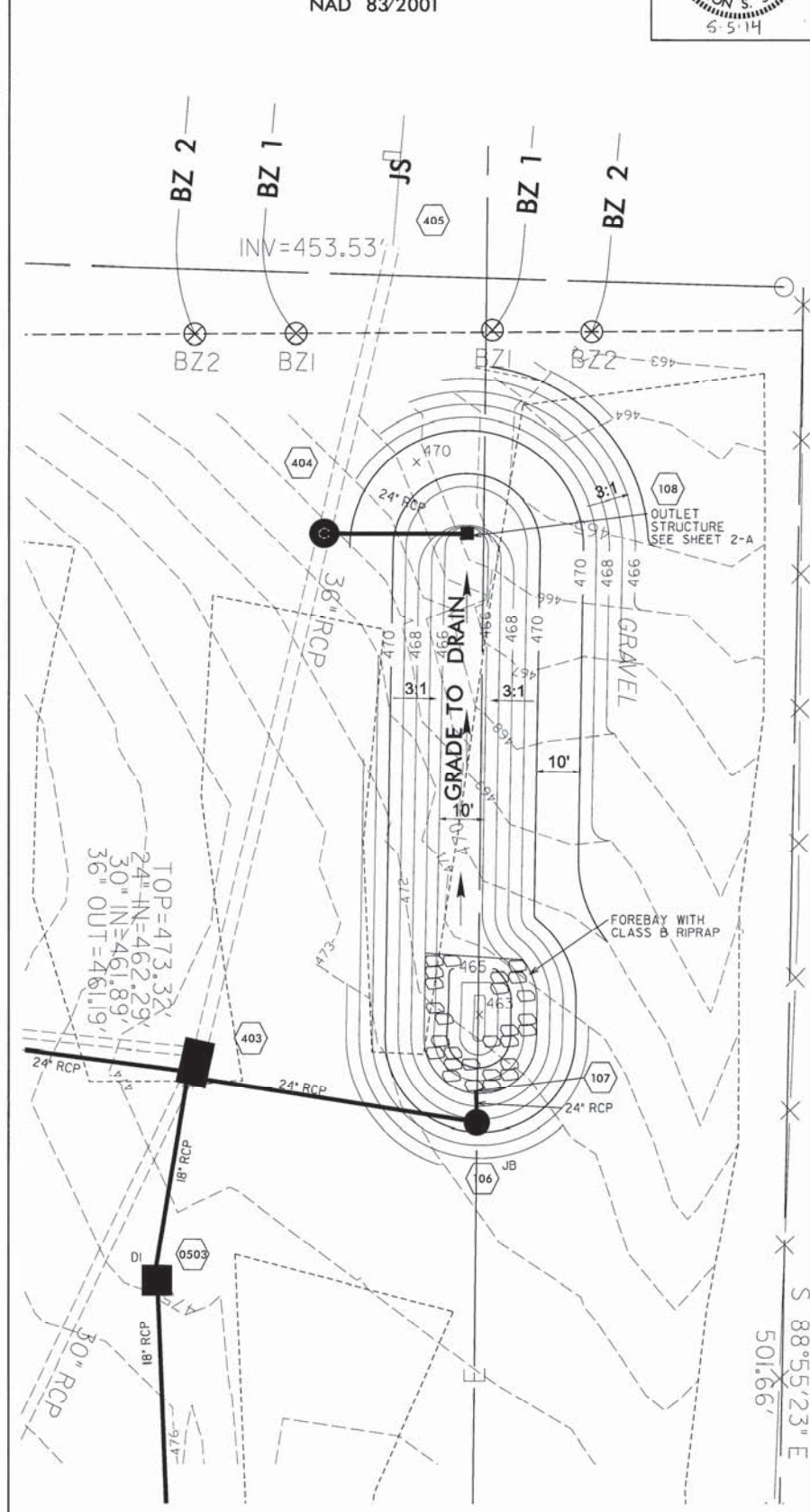
\*BOX INVERT ELEVATION REPRESENTS TOP OF BOTTOM SLAB OF JUNCTION BOX. PIPE INVERTS MAY BE DIFFERENT. (SEE PIPE SCHEDULE)

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### SITE PLAN

- NOTES**
1. SEE SHEET 3 FOR DRAINAGE SUMMARY.
  2. INLET 403/DIVERSION BOX DETAIL SHEET 02-A.
  3. PIPE LENGTHS MEASURED FROM CENTER OF STRUCTURE.
  4. ACCESS TO THE 35' POWER EASEMENT MUST BE MAINTAINED OR PROVIDED IMMEDIATELY UPON REQUEST.
  5. EIT - EXISTING TRANSPORTATION FACILITY



### DRY DETENTION BASIN DETAIL

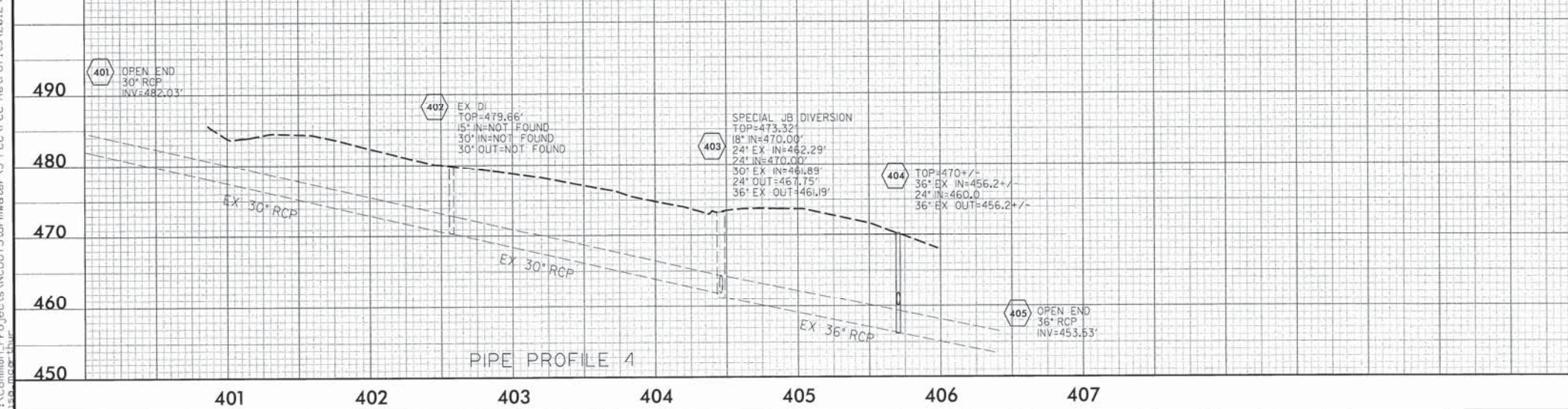
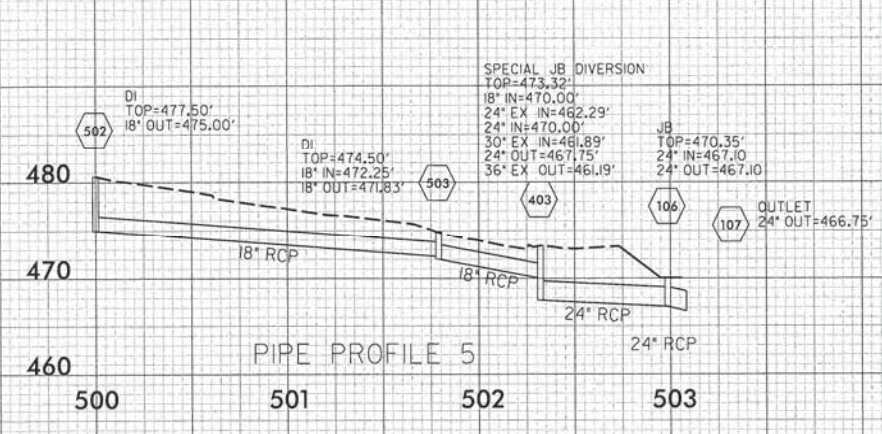
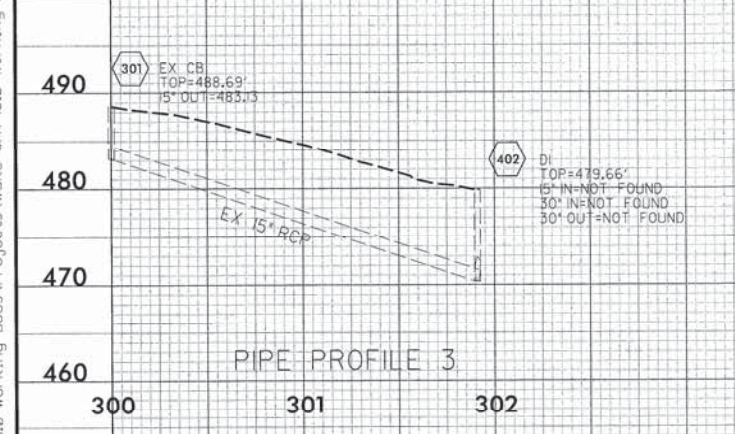
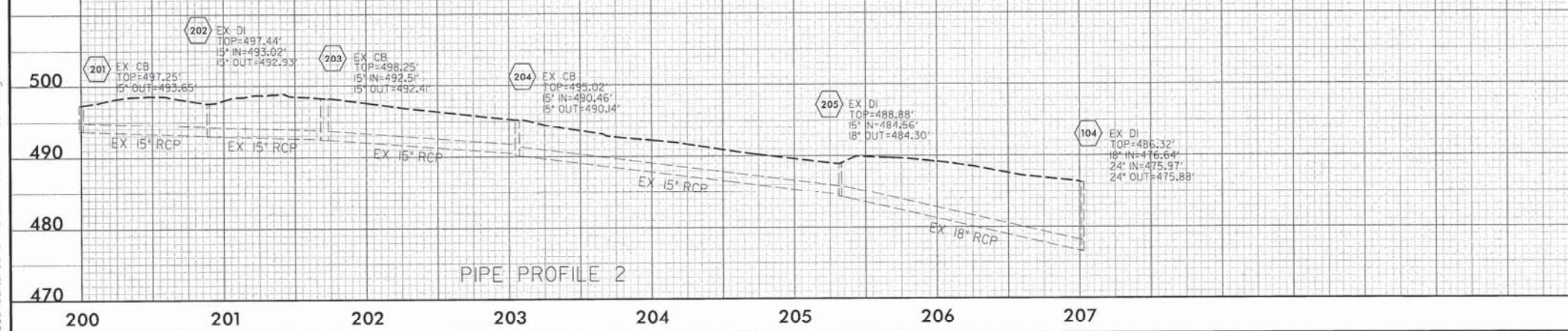
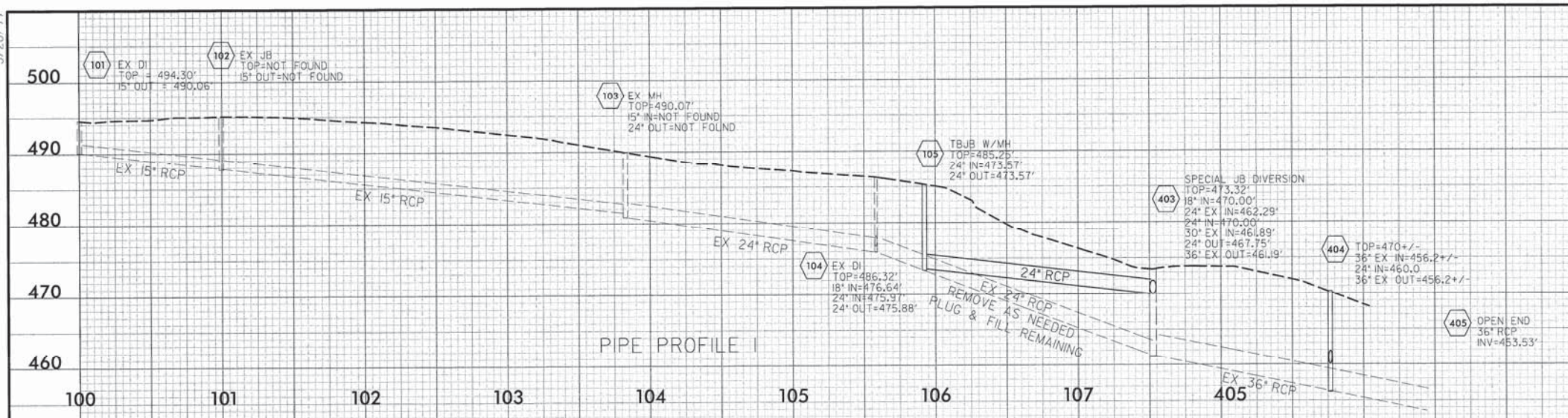
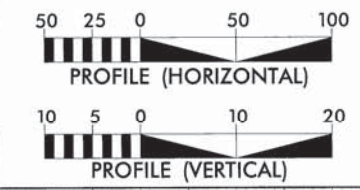
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501.66'

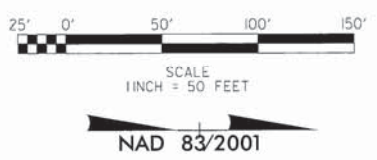


5/28/14

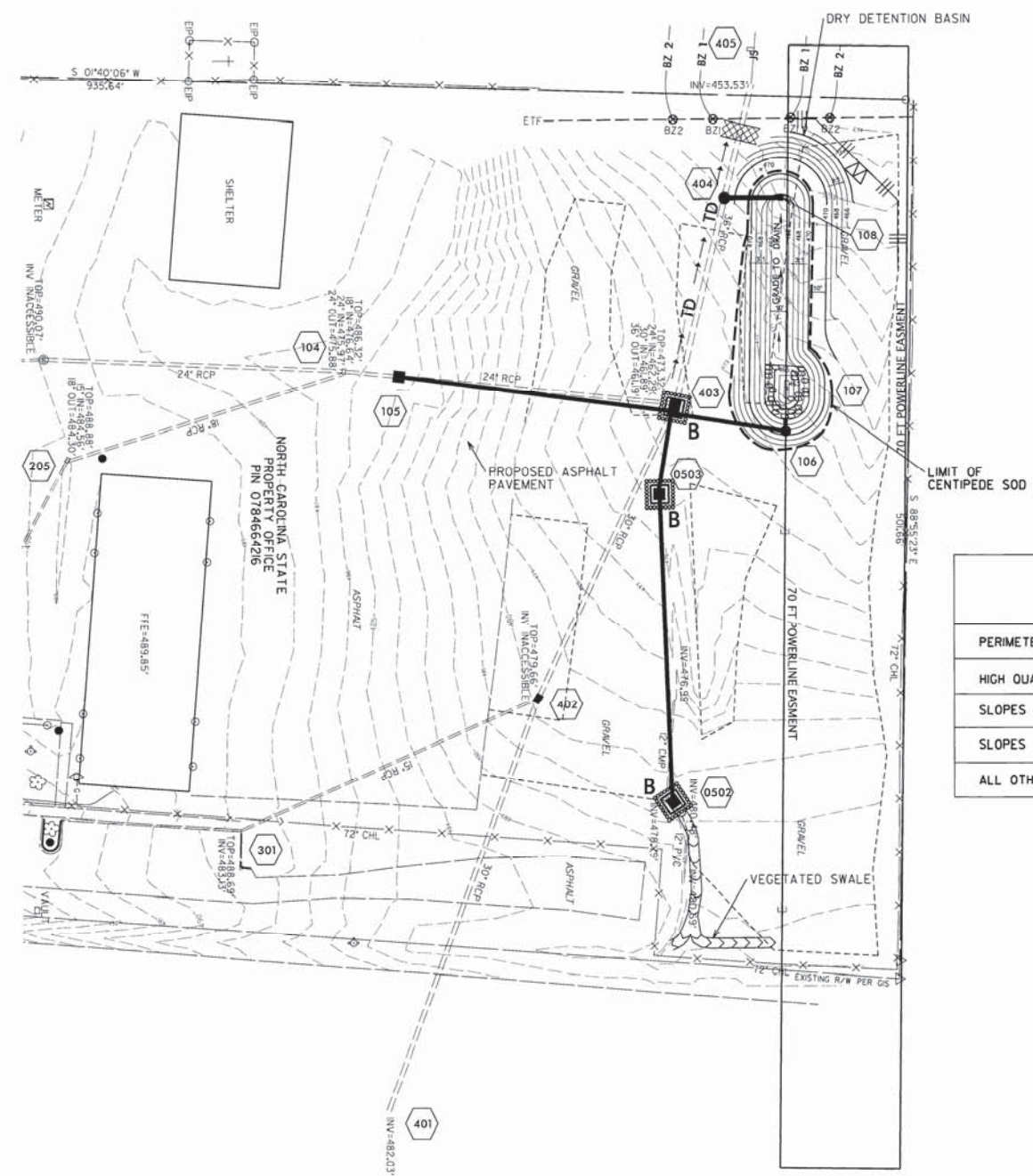
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PROJECT REFERENCE NO. R-4436EF	SHEET NO. 04-B
PROJECT ENGINEER	





- CONSTRUCTION SEQUENCE NOTES:**
- PROJECT REQUIRES A PRE-CONSTRUCTION CONFERENCE PRIOR TO INITIATION OF EARTH DISTURBING ACTIVITIES.
  - CONSTRUCT GRAVEL CONSTRUCTION ENTRANCE (SEE EROSION CONTROL NOTES), INSTALL SILT FENCE AND SPECIAL SEDIMENT CONTROL FENCE AS SHOWN ON THE PLAN, AND CONSTRUCT CLEAN WATER TEMPORARY DIVERSION WITH TEMPORARY SILT CHECK. PROVIDE TREE PROTECTION ALONG ETF LINE.
  - CONSTRUCT THE DRY DETENTION BASIN/HAZARDOUS SPILL BASIN, INCLUDING OUTLET STRUCTURE, OUTLET PIPE, STRUCTURE 404, FOREBAY, AND INLET DRAINAGE SYSTEM WITHIN BASIN FOOTPRINT. PLACE SOD AS SOON AS BASIN IS BROUGHT TO FINAL GRADE. INSTALL EROSION CONTROL MATTING ON REMAINING SLOPES AND ADHERE TO SEEDING/MULCHING GUIDELINES ON THE PLAN FOR OTHER BASIN DISTURBED SURFACES.
  - CONSTRUCT ALL REMAINING PROPOSED DRAINAGE SYSTEMS, INCLUDING THE SPLITTER BOX, FROM DOWNSTREAM TO UPSTREAM. CONSTRUCT INLET SEDIMENT TRAPS AS SHOWN ON PLAN. REPLACE TOP ON JUNCTION BOX 402. CONSTRUCT VEGETATED SWALE AND INSTALL EROSION CONTROL MATTING.
  - FOLLOW SEEDING/MULCHING GUIDELINES ON THE PLANS TO STABILIZE ALL REMAINING DISTURBED SURFACES. BACKFILL TEMPORARY CLEAN WATER DIVERSION.
  - INSPECT ALL INLETS, PIPES, AND OUTLETS FOR SEDIMENT AND REMOVE SEDIMENT AS REQUIRED.
  - REMOVE ALL REMAINING TEMPORARY EROSION CONTROL MEASURES AFTER PERMANENT PERENNIAL VEGETATION IS ESTABLISHED.



**SOIL STABILIZATION TIMEFRAMES**

SITE DESCRIPTION	STABILIZATION TIME	TIMEFRAME EXCEPTIONS
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HOW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.
SLOPES 3:1 OR FLATTER	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH.
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE, EXCEPT FOR PERIMETERS AND HOW ZONES.

**EROSION CONTROL NOTES:**

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH NCDOT STANDARDS SPECIFICATIONS, AND DETAILS, LATEST REVISION.
- CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL MEASURES DURING THE LIFE OF THE PROJECT UNLESS OTHERWISE INDICATED ON THE PLANS OR DIRECTED BY NCDOT INSPECTOR.
- CONTRACTOR SHALL CONSTRUCT DIVERSION DITCHES AS NECESSARY TO ENSURE THAT ALL SEDIMENT IS DIRECTED INTO EROSION CONTROL MEASURES.
- CUT AND FILL SLOPES SHALL BE STABILIZED WITHIN 14 DAYS OF ANY PHASE OF GRADING. SLOPES 3:1 OR STEEPER SHALL BE STABILIZED WITHIN 7 DAYS.
- ALL STREETS ADJACENT TO THIS PROJECT SHALL REMAIN CLEAN AT ALL TIMES OR A WASH STATION MAY BE REQUIRED.
- EXISTING TOPOGRAPHY TAKEN FROM FIELD SURVEY BY CH ENGINEERING.
- THE SILT FENCE SHALL BE MAINTAINED ON THE SITE UNTIL ALL SITE WORK IS COMPLETED AND THE FINAL SITE INSPECTION IS SCHEDULED.
- RESEED OF PERMANENT GROUND COVER WILL BE ESTABLISHED IN 15 WORKING DAYS OR 30 CALENDAR DAYS, WHICH EVER IS SHORTER.
- EROSION CONTROL MATTING SHALL BE STRAW MATTING. USE STD. DWG. 1631.01 FOR MATTING INSTALLATION.
- PROVIDE GRAVEL CONSTRUCTION ENTRANCE PER 1607.01 AS NEEDED TO PREVENT TRACKING OFFSITE.

**MAINTENANCE PLAN:**

- ALL EROSION AND SEDIMENTATION CONTROL PRACTICES WILL BE CHECKED FOR STABILITY AND OPERATION FOLLOWING EVERY RUNOFF-PRODUCING RAINFALL BUT IN NO CASE LESS THAN ONCE A WEEK. ANY NEEDED REPAIRS WILL BE MADE IMMEDIATELY TO MAINTAIN ALL PRACTICES AS DESIGNED.
- SEDIMENT WILL BE REMOVED FROM BEHIND THE SILT FENCE WHEN IT BECOMES ABOUT 6-INCHES DEEP AT THE FENCE. THE SILT FENCE WILL BE REPAIRED AS NECESSARY TO MAINTAIN A BARRIER.
- INLET PROTECTION DEVICES SHALL BE INSPECTED AFTER EVERY RAINFALL EVENT. DAMAGED SILT FENCE SHALL BE REPLACED AND GRAVEL SHALL BE CLEANED OR REPLACED WHEN INLET NO LONGER DRAINS PROPERLY.

**SEEDBED PREPARATION:**

- CHISEL COMPACTED AREAS AND SPREAD TOPSOIL 3 INCHES DEEP OVER ADVERSE SOIL CONDITIONS IF AVAILABLE.
  - RIP THE ENTIRE AREA TO 6 INCHES DEPTH.
  - REMOVE ALL LOOSE ROCK, ROOTS AND OTHER OBSTRUCTIONS LEAVING SURFACES REASONABLY SMOOTH AND UNIFORM.
  - APPLY AGRICULTURAL LIME, FERTILIZER, AND SUPERPHOSPHATE UNIFORMLY AND MIX WITH SOIL (SEE BELOW\*).
  - CONTINUE TILLAGE UNTIL A WELL-PULVERIZED, FIRM, REASONABLY UNIFORM SEEDBED IS PREPARED 4 TO 6 INCHES DEEP.
  - SEED A FRESHLY PREPARED SEEDBED AND COVER SEED LIGHTLY WITH SEEDING EQUIPMENT OR CULTIPACK AFTER SEEDING.
  - MULCH IMMEDIATELY AFTER SEEDING AND ANCHOR MULCH.
  - INSPECT ALL SEEDED AREAS AND MAKE ALL NECESSARY REPAIRS OR RESEEDINGS WITHIN THE PLANTING SEASON, IF POSSIBLE. IF STAND SHOULD BE OVER 70% DAMAGED, REESTABLISH FOLLOWING ORIGINAL LIME, FERTILIZER AND SEEDING RATES.
  - CONSULT CONSERVATION INSPECTOR ON MAINTENANCE TREATMENT AND FERTILIZATION AFTER PERMANENT COVER IS ESTABLISHED.
- \*APPLY: AGRICULTURAL LIMESTONE - 2 TONS/ACRE (34 TONS/ACRE ON CLAY SOILS)  
 FERTILIZER - 1,000 LBS/ACRE - 10-10-10  
 SUPERPHOSPHATE - 500 LBS/ACRE - 20%  
 MULCH - 2 TONS/ACRE - SMALL GRAIN STRAW  
 ANCHOR - ASPHALT EMULSION @ 300 GAL. ACRE

**EROSION AND SEDIMENT CONTROL MEASURES**

Std. #	Description	Symbol
1630.05	Temporary Diversion	TD
1605.01	Temporary Silt Fence	
1606.01	Special Sediment Control Fence	△
1632.02	Rock Inlet Sediment Trap Type B	B
1655.01	Temporary Rock Silt Check Type-A	⊗

**SEEDING SCHEDULE SHOULDERS, SIDE DITCHES, SLOPES (MAX. 3:1)**

DATE	TYPE	PLANTING RATE
AUG 15-NOV 1	TALL FESCUE	300 LBS/ACRE
NOV 1-MAR 1	TALL FESCUE AND ABRUZZIRYE	300 LBS/ACRE
MAR 1-APR 15	TALL FESCUE	300 LBS/ACRE
APR 15-JUNE 20	HULLED COMMON BERMUDAGRASS	25 LBS/ACRE
JUNE 30-AUG 15	TALL FESCUE AND •••BROWNTOP MILLET •••OR SORGHUM-SUDAN HYBRIDS	35 LBS/ACRE
SLOPES (3:1 TO 2:1)		
MAR 1-JUN 1	SERICEA LESPEDEZA (SCARIFIED) AND	50 LBS/ACRE
MAR 1-APR 15	ADD TALL FESCUE AND	120 LBS/ACRE
MAR 1-JUNE 30	ADD WEeping LOVEGRASS OR	10 LBS/ACRE
MAR 1-JUNE 30	ADD HULLED COMMON BERMUDAGRASS	25 LBS/ACRE
JUNE 1-SEP 1	•••TALL FESCUE AND •••BROWNTOP MILLET •••OR SORGHUM-SUDAN HYBRIDS	120 LBS/ACRE 35 LBS/ACRE 30 LBS/ACRE
SEP 1-MAR 1	SERICEA LESPEDEZA (UNHULLED-UNSCARIFIED) AND TALL FESCUE	70 LBS/ACRE 120 LBS/ACRE
NOV 1-MAR 1	ADD ABRUZZIRYE	25 LBS/ACRE

CONSULT EROSION CONTROL ENGINEER OR SOIL CONSERVATION SERVICE FOR ADDITIONAL INFORMATION CONCERNING OTHER ALTERNATIVES FOR VEGETATION OF DENuded AREAS. THE ABOVE VEGETATION RATES ARE THOSE WHICH DO WELL UNDER LOCAL CONDITIONS; OTHER SEEDING RATES COMBINATIONS ARE POSSIBLE.

•••TEMPORARY-RESEED ACCORDING TO OPTIMUM SEASON FOR DESIRED PERMANENT VEGETATION. DO NOT ALLOW TEMPORARY COVER TO GROW OVER 12 INCHES IN HEIGHT BEFORE MOWING, OTHERWISE FESCUE MAY BE SHADED OUT.

5/14/09  
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