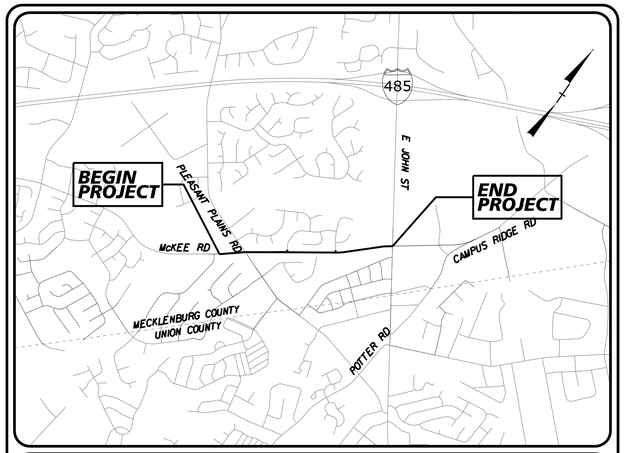
TIP PROJECT: U-4713A



VICINITY MAP
NOT TO SCALE

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL

MECKLENBURG COUNTY

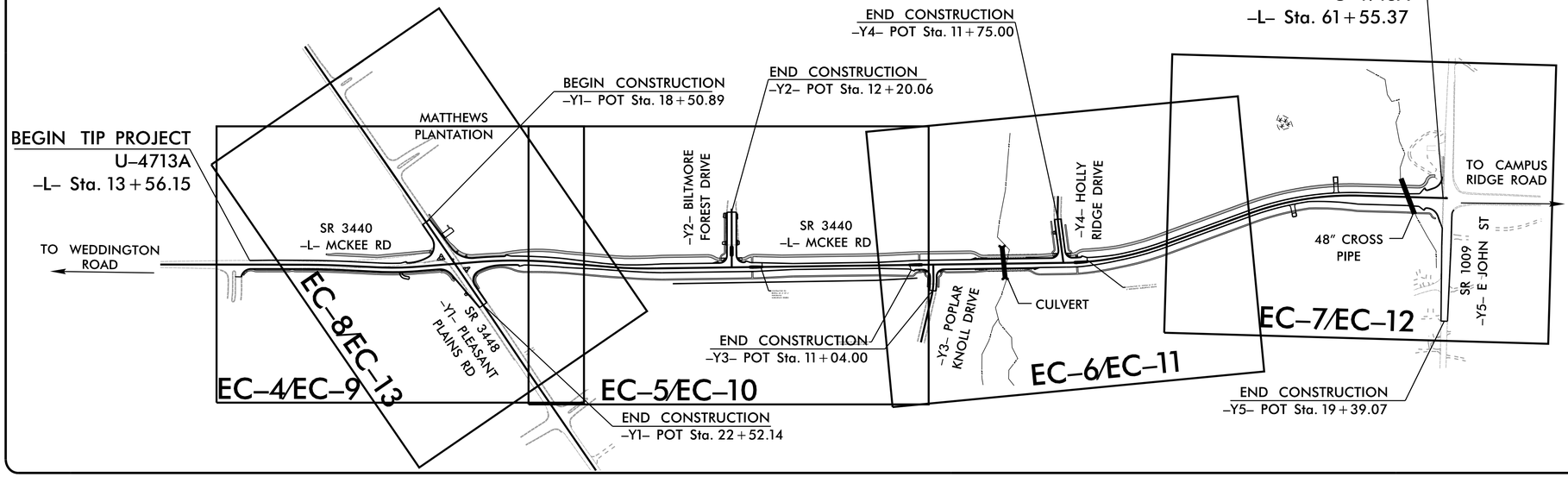
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	U-4713A	EC-1	

STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION
39077.1.2	N/A	PE

LOCATION: *SR 3440 (MCKEE ROAD) FROM SR 3448 (PLEASANT PLAINS RD) TO SR 1010 (E. JOHN STREET)*

TYPE OF WORK: *GRADING, DRAINAGE, PAVING, PAVEMENT REMOVAL, CONCRETE ISLANDS, THERMOPLASTIC MARKINGS AND CULVERT*

NC GRID
NAD 83 NA 2011



THIS PROJECT CONTAINS EROSION CONTROL PLANS FOR CLEARING AND GRUBBING PHASE OF CONSTRUCTION.

GRAPHIC SCALE

50 25 0 50 100
PLANS

THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY WITH THE APPLICABLE REGULATIONS SET FORTH BY THE NCG-010000 GENERAL CONSTRUCTION PERMIT ISSUED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY DIVISION OF WATER RESOURCES.

Kimley»Horn

NC LICENSE #F-0102
200 SOUTH TRYON STREET, SUITE 200
CHARLOTTE, NORTH CAROLINA 28202
PHONE: (704) 333-5131

Prepared in the Office of:
KIMLEY HORN
200 SOUTH TRYON STREET, SUITE 200
CHARLOTTE, NORTH CAROLINA 28202

Designed by:

SPENCER GREEN, PE ***4424***
NAME *LEVEL III CERTIFICATION NO.*

Roadway Standard Drawings

The "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated January 2024 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

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RIGHT-OF-WAY REV.

CONST. REV.

PROJECT REFERENCE NO.	SHEET NO.
U-4713A	EC-2

EROSION & SEDIMENT CONTROL LEGEND

Std. #	Description	Symbol
1605.01	Temporary Silt Fence	
1606.01	Special Sediment Control Fence	
1622.01	Temporary Berms and Slope Drains	
1630.02	Silt Basin Type B	
1630.03	Temporary Silt Ditch	TSD
1630.04	Stilling Basin	
1630.05	Temporary Diversion	TD
1630.06	Special Stilling Basin	
1630.07	Skimmer Basin	
1630.08	Tiered Skimmer Basin	
1630.09	Earthen Dam with Skimmer	
	Infiltration Basin	
	Rock Inlet Sediment Trap:	
1632.01	Type A	A
1632.02	Type B	B
1632.03	Type C	C

Std. #	Description	Symbol
1633.01	Temporary Rock Silt Check Type A	
1633.02	Temporary Rock Silt Check Type B	
1633.03	Temporary Rock Silt Check Type A with Excelsior Matting and Flocculant	
1634.01	Temporary Rock Sediment Dam Type A	
1634.02	Temporary Rock Sediment Dam Type B	
1635.01	Rock Pipe Inlet Sediment Trap Type A	A
1635.02	Rock Pipe Inlet Sediment Trap Type B	B
1636.01	Excelsior Wattle Check	
1636.01	Excelsior Wattle Check with Flocculant	
1636.01	Coir Fiber Wattle Check	
1636.01	Coir Fiber Wattle Check with Flocculant	
1636.02	Silt Fence Excelsior Wattle Break	EW
	Silt Fence Coir Fiber Wattle Break	CFW
1636.03	Excelsior Wattle Barrier	EW EW EW
1636.03	Coir Fiber Wattle Barrier	CFW CFW CFW

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ONSITE CONCRETE WASHOUT STRUCTURE WITH LINER

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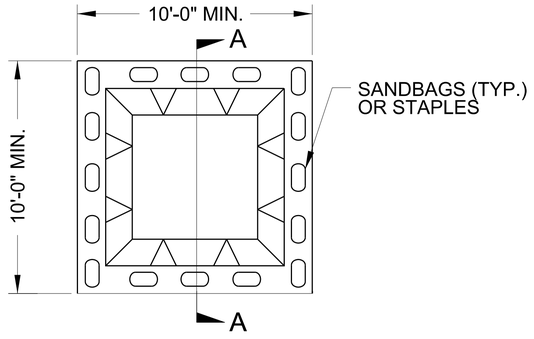
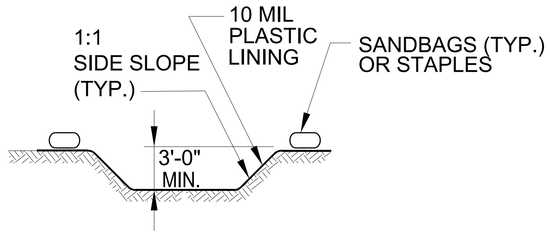
RIGHT-OF-WAY REV.
CONST. REV.

PROJECT REFERENCE NO.	SHEET NO.
U-4713A	EC-2A



PLAN



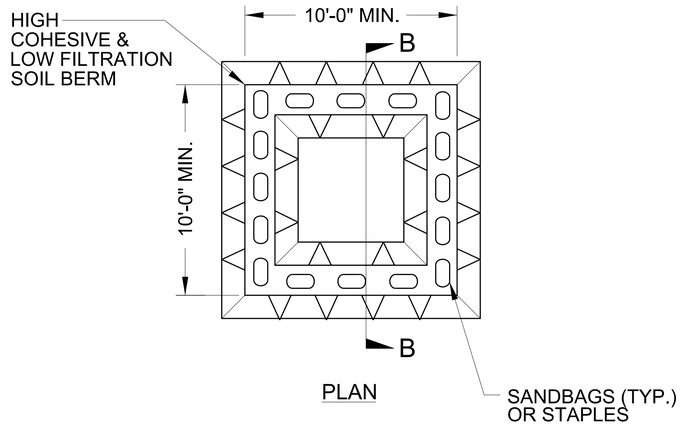
SECTION A-A

NOTES:
1. ACTUAL LOCATION DETERMINED IN FIELD

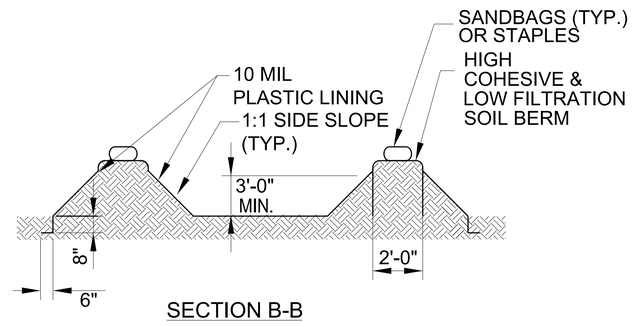
2. THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY TO PROVIDE ADEQUATE HOLDING CAPACITY WITH A MINIMUM 12 INCHES OF FREEBOARD.

3.CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARY MARKED WITH SIGNAGE NOTING DEVICE.

BELOW GRADE WASHOUT STRUCTURE
NOT TO SCALE



PLAN



SECTION B-B

NOTES:
1. ACTUAL LOCATION DETERMINED IN FIELD

2. THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY TO PROVIDE ADEQUATE HOLDING CAPACITY WITH A MINIMUM 12 INCHES OF FREEBOARD.

3.CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARY MARKED WITH SIGNAGE NOTING DEVICE.

ABOVE GRADE WASHOUT STRUCTURE
NOT TO SCALE

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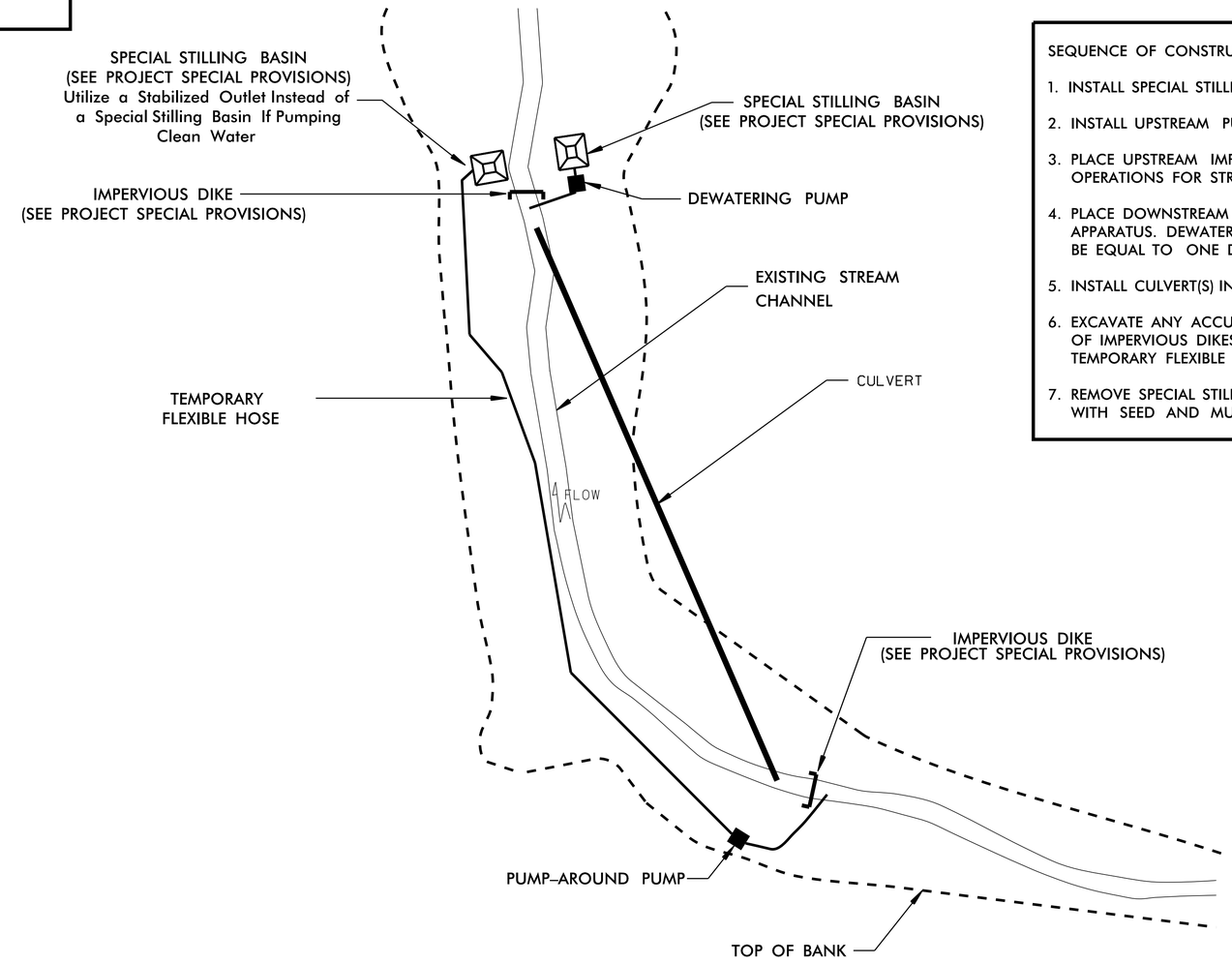
RIGHT-OF-WAY REV.
CONST. REV.

PROJECT REFERENCE NO.	SHEET NO.
U-4713A	EC-2B

EXAMPLE OF PUMP–AROUND OPERATION

NOTES:
1) All excavation shall be performed in only dry or isolated areas of the work zone.
2) Impervious dikes are to be used to isolate work from stream flow when necessary.
3) Maintenance of stream flow operations shall be incidental to the work. This includes polyethylene sheeting, diversion pipes, pumps and hoses.
4) Pumps and hoses shall be of sufficient size to dewater the work area.
5) All erosion control measures for the pump–around must be located within the permitted stream and buffer limits of impact.



SEQUENCE OF CONSTRUCTION FOR TYPICAL WORK AREA

1. INSTALL SPECIAL STILLING BASIN(S).
2. INSTALL UPSTREAM PUMP AND TEMPORARY FLEXIBLE HOSE.
3. PLACE UPSTREAM IMPERVIOUS DIKE AND BEGIN PUMPING OPERATIONS FOR STREAM DIVERSION.
4. PLACE DOWNSTREAM IMPERVIOUS DIKE AND PUMPING APPARATUS. DEWATER ENTRAPPED AREA. AREA TO BE DEWATERED SHALL BE EQUAL TO ONE DAY'S WORK.
5. INSTALL CULVERT(S) IN ACCORDANCE WITH THE PLANS.
6. EXCAVATE ANY ACCUMULATED SILT AND DEWATER BEFORE REMOVAL OF IMPERVIOUS DIKES. REMOVE IMPERVIOUS DIKES, PUMPS, AND TEMPORARY FLEXIBLE HOSE. (DOWNSTREAM IMPERVIOUS DIKES FIRST).
7. REMOVE SPECIAL STILLING BASIN(S) AND BACKFILL. STABILIZE DISTURBED AREA WITH SEED AND MULCH.

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RIGHT-OF-WAY REV.
CONST. REV.

PROJECT REFERENCE NO.	SHEET NO.
U-4713A	EC-3

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

SOIL STABILIZATION SUMMARY SHEET

STRAW MATTING FOR EROSION CONTROL

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)
DITCHES					
4	-L-	13+56	14+00	RT	70
4	-L-	13+56	15+25	LT	265
4	-L-	15+25	17+00	LT	270
4-5	-L-	25+00	28+70	RT	405
5	-L-	28+70	30+00	RT	145
5	-L-	30+00	30+40	RT	45
5	-L-	30+40	34+00	RT	390
6-7	-L-	51+50	54+00	RT	275
7	-L-	54+00	56+50	RT	275
7	-L-	57+75	59+85	LT	230
8	-Y1-	18+50	19+00	LT	100
			SUBTOTAL		2,470
MISCELLANEOUS MATTING TO BE INSTALLED AS DIRECTED BY THE ENGINEER					11,355
				TOTAL	13,825
				SAY	13,850

EXCELSIOR MATTING FOR EROSION CONTROL

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)
DITCHES					
5	-L-	38+00	40+00	RT	405
6	-L-	43+75	44+75	RT	110
6	-L-	43+67	45+50	LT	275
5-6	-L-	37+45	38+50	RT	115
			SUBTOTAL		905
				SAY	950*
* PAID FOR AS MATTING FOR EROSION CONTROL					
	SUBTOTAL: STRAW MATTING				13,850
	SUBTOTAL: EXCELSIOR				950
GRAND TOTAL: MATTING FOR EROSION CONTROL					14,800

PERMANENT SOIL REINFORCEMENT MAT (TYPE 3)

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)
5	-L-	38+00	42+40	LT	890
5-6	-L-	38+50	40+25	RT	190
			SUBTOTAL		1,080
		ADDITIONAL PSRM TO BE INSTALLED			0
				TOTAL	1,080
				SAY	1,080

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RIGHT-OF-WAY REV.

CONST. REV.

PROJECT REFERENCE NO.	SHEET NO.
U-4713A	EC-3A

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

SOIL STABILIZATION TIMEFRAMES

SITE DESCRIPTION	STABILIZATION TIME	TIMEFRAME EXCEPTIONS
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HQW) 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 TO 4:1	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH WITH SLOPES STEEPER THAN 4:1. 7 DAYS FOR PERIMETER DIKES, SWALES, DITCHES PERIMETER SLOPES, AND HQW ZONES
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	7 DAYS FOR PERIMETER DIKES, SWALES, DITCHES PERIMETER SLOPES, AND HQW ZONES

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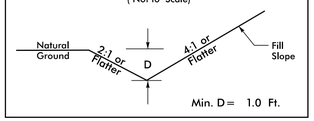
PROJECT REFERENCE NO.	SHEET NO.
U-4713A	EC-3B

RIGHT-OF-WAY REV.

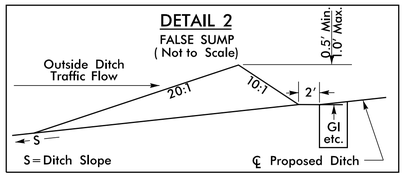
CONST. REV.

DETAIL 1
SPECIAL LATERAL 'V' DITCH
(Not to Scale)



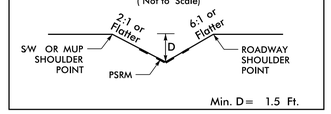
FROM STA. 13+56 TO STA. 15+25 –L– (LT)
FROM STA. 15+25 TO STA. 17+00 –L– (LT)
FROM STA. 54+00 TO STA. 56+50 –L– (RT)
FROM STA. 56+50 TO STA. 57+50 –L– (RT)

DETAIL 2
FALSE SUMP
(Not to Scale)



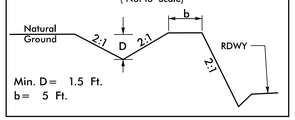
STA. 26+68 –L– (LT)
STA. 30+28 –L– (RT)

DETAIL 3
CUT DITCH w/ PSRM
(Not to Scale)



FROM STA. 38+00 TO STA. 42+40 –L– (LT)

DETAIL 4
BERM 'V' DITCH
(Not to Scale)



FROM STA. 25+00 TO STA. 28+70 –L– (RT)
FROM STA. 28+70 TO STA. 30+00 –L– (RT)
FROM STA. 30+00 TO STA. 30+40 –L– (RT)
FROM STA. 51+50 TO STA. 54+00 –L– (RT)

DETAIL 5
LATERAL 'V' DITCH
(Not to Scale)

FROM STA. 42+00 TO STA. 43+60 –L– (RT)
FROM STA. 42+75 TO STA. 43+55 –L– (LT)
FROM STA. 43+75 TO STA. 44+75 –L– (RT)
FROM STA. 43+67 TO STA. 45+50 –L– (LT)

DETAIL 6
LATERAL 'V' DITCH
(Not to Scale)

FROM STA. 57+75 TO STA. 59+85 –L– (LT)

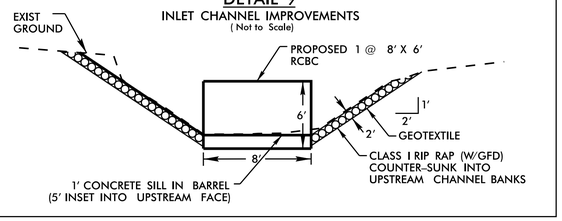
DETAIL 7
FALSE SUMP
(Not to Scale)

STA. 30+28 –L– (LT)
STA. 36+15 –L– (RT)

DETAIL 8
STANDARD BASE DITCH
(Not to Scale)

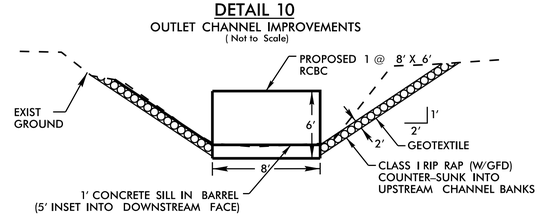
STA. 60+50 –L– (RT)

DETAIL 9
INLET CHANNEL IMPROVEMENTS
(Not to Scale)



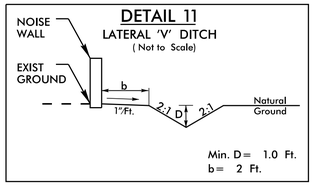
STA. 43+70 –L– (RT)

DETAIL 10
OUTLET CHANNEL IMPROVEMENTS
(Not to Scale)



STA. 43+55 –L– (LT)

DETAIL 11
LATERAL 'V' DITCH
(Not to Scale)



FROM STA. 30+40 TO STA. 34+50 –L– (RT)
FROM STA. 34+50 TO STA. 35+95 –L– (RT)
FROM STA. 35+95 TO STA. 37+50 –L– (RT)
FROM STA. 37+50 TO STA. 40+25 –L– (RT)

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RIGHT-OF-WAY REV.

CONST. REV.

PROJECT REFERENCE NO.	SHEET NO.
U-4713A	EC-4/CONST.4

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 4

NC GRID
NAD 83 NA 2011

15+00

20+00

25+00

-L- MCKEE ROAD

-Y1- PLEASANT PLAINS ROAD

PROVIDENCE HILLS DRIVE

MATCHLINE -L- STA 26+00 (SEE SHEET EC-5/CONST.5)

MATCHLINE -Y1- STA 24+00 (SEE SHEET EC-8/CONST.8)

76 x 22 x 2
1.5 inch Skimmer
with 0.875 inch
Orifice Diameter
7 ft. weir
ID 4.1

BEGIN SAFETY FENCE
-L- STA. 23+34
OFF. 70' LT

END SAFETY FENCE
-L- STA. 25+27
OFF. 67' LT

(1) MICHAEL DONIHEE & LAURA D. DONIHEE
DB 10439 PG 722
MB 30 PG 67

(2) TOWN OF MATTHEWS
DB 29150 PG 416
MB 57 PG 411

(3) GREGORY L. NORMAN & CARLA A. NORMAN
DB 14324 PG 138
MB 32 PG 565

(4) DOUGLAS R. GUNSON BLYTHE E. GUNSON
DB 12733 PG 243
MB 32 PG 565

(4) PATRICIA G. WILLIS KENNETH W. ZOELLER
DB 20347 PG 110
MB 9 PG 41

(5) CHRISTOPHER M. COBB & KATHERINE P. COBB
DB 29035 PG 506
MB 32 PG 565

(6) EQUITABLE HOLDINGS, LLC
DB 28892 PG 960
MB 3 PG 360

(7) MATTHEWS PLANTATION HOMEOWNERS ASSOCIATION
DB 6524 PG 153
MB 23 PG 991

(8) WINSTON L. ARMENTROUT, JR. SUSAN A. ARMENTROUT
MB 23 PG 991
DB 7788 PG 538

(9) DAVID S. SOUZA DUARTE & SELENA LYNN DUCHARME
MB 23 PG 991
DB 31526 PG 276

(10) STEPHEN R. VAUGHN & MOIRA C. VAUGHN
MB 23 PG 991
DB 29892 PG 960
582

(27) C EDWARD BAREFOOT & CATHY G BAREFOOT

C EDWA
CATHY

TROTTER PROPERTIES, LLC
DB 19940 PG 566

JOYCE V. CHAMPION
DB 9998 PG 180
MB 31PG 703

EVERETTE BROWN
BEVERLY BROWN
DB 10126 PG 300
MB 31PG 703

(35)

UTILIZE FABRIC INSERT INLET PROTECTIONS IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE C WHERE WATER MAY POND ON THE ROADWAY IN AREAS WHERE LIVE TRAFFIC IS PRESENT.

NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE – B AND TEMPORARY ROCK SILT CHECKS TYPE – A AT DRAINAGE OUTLETS.

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RIGHT-OF-WAY REV.

CONST. REV.

PROJECT REFERENCE NO.	SHEET NO.
U-4713A	EC-5/CONST.5

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 5

NC GRID
NAD 83 NA 2011

76 x 22 x 2
1.5 inch Skimmer
with 0.875 inch
Orifice Diameter
7 ft. weir
ID 4.1

135 x 25 x 2
1.5 inch Skimmer
with 1.250 inch
Orifice Diameter
13 ft. weir
ID 5.1

119 x 23 x 3
1.5 inch Skimmer
with 1.500 inch
Orifice Diameter
11 ft. weir
ID 5.2

-Y2- BILTMORE FOREST DR.

-L- MCKEE ROAD

MATCHLINE -L- STA 26+00 (SEE SHEET EC-4/CONST.4)

MATCHLINE -L- STA 40+00 (SEE SHEET EC-6/CONST.6)

(27) C EDWARD BAREFOOT & CATHY G BAREFOOT

(28) YAZHEN HUANG
MB 23 PG 991

(29) MICHAEL L. LAVELLE
AUDREY A. LAVELLE
MB 23 PG 991
DB 8811PG 333

(30) TRAVIS G. KLEIN & AUDRY KARPPINEN KLEIN
MB 23 PG 991
DB 21010 PG 362

(31) MB 23 PG 991
DB 7123 PG 550
ROBERT D. COX
DONNA J. COX

32 MIRANDA LIVING TRUST

FRANK V. OSWALT
DARLENE J. OSWALT
MB 27 PG 212
DB 17510 PG 104

STUART L. A. MOFFAT
JULIE H. MOFFAT
MB 27 PG 212
DB 10287 PG 31

FOUNTABLE HOLDINGS, LLC
DB 28892 PG 360
MB 3 PG 360

GERALD COLEMAN BROOMER & DONNA FAY BROOMER
MB 27 PG 212
DB 27108 PG 718

ROBIN L. HUNTER & CONNIE J. HUNTER
MB 27 PG 212
DB 9992 PG 15

GEOFFREY L. BROWN & FERN M. BROWN
MB 27 PG 212
DB 3618 PG 792

RACHEL L. RICH & CHUONG THIEN LUC
MB 27 PG 212
DB 28247 PG 673

LESTER A. COAMBS & VICKIE O. COAMBS COAMBS FAMILY TRUST
MB 27 PG 212
DB 27124 PG 29

JACK V. VINES
GRACE L. VINES
MB 27 PG 212
DB 9594 PG 990

RUSSELL M. HELDERMAN SUSAN M. HELDERMAN
MB 27 PG 212
DB 9188 PG 981

MARY JEWETT
MB 27 PG 212
DB 30637 PG 161

MATTHEWS PLANTATION HOMEOWNERS ASSOCIATION
DB 16580 PG 933
MB 26 PG 885

POPLAR FOREST OWNERS ASSOCIATION
MB 45 PG 231
DB 28919 PG 257

(11) POPLAR FOREST OWNERS ASSOCIATION
MB 46 PG 433
DB 26065 PG 459

CONTRACTOR TO INSTALL 68 LF OF 6" PERFORATED SUBSURFACE DRAINS

CONTRACTOR TO INSTALL 68 LF OF 6" PERFORATED SUBSURFACE DRAINS

(33) KATINA MOORE HOLDEN
MB 46 PG 433
DB 29283 PG 112

LEIGH A. KITCHIN
MB 45 PG 231
DB 26684 PG 874

TRAIAN GHIT & CAMELIA A. GHIT
MB 45 PG 231
DB 30649 PG 703

RICHARD P. PRUSSO
MB 45 PG 231
DB 31950 PG 106

TIMOTHY L. HAGEMAN & ALAINA L. HAGEMAN
MB 45 PG 231
DB 29002 PG 894

JUSTIN W. THRASHER & KOURTNEY L. THRASHER
MB 45 PG 231
DB 21920 PG 343

GEORGE ROBERT BROWN, JR. & E. RENEE BROWN
MB 45 PG 231
DB 22350 PG 391

JAMES F. CAHILL & EVELYN S. CAHILL
MB 45 PG 231
DB 26012 PG 925

ROBERT J. SALMEN & LAURA L. SALMEN
MB 45 PG 231
DB 30627 PG 652

RAYNOLD WORTH ALLEN, JR. & CHARLAIN ADAMS ALLEN
MB 45 PG 231
DB 23061PG 810

CLINTON C. HICKS
SYLVIA F. HICKS
MB 45 PG 231
DB 21774 PG 121

JULIE A. MULLEN & MITCHELL MULLEN
MB 45 PG 231
DB 20852 PG 520

SAMUEL P. SPOTO
CARLA H. SPOTO
MB 45 PG 231
DB 20948 PG 482

MICHAEL RAY FUNDERBURG
MB 45 PG 231
DB 28051PG 922

BILLY M. HELMS & MARY E. HELMS
MB 46 PG 433
DB 26549 PG 654

THOMAS A. WRIGHT & DEBORAH O. WRIGHT
MB 46 PG 433
DB 24010 PG 360

NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE – B AND TEMPORARY ROCK SILT CHECKS TYPE – A AT DRAINAGE OUTLETS.

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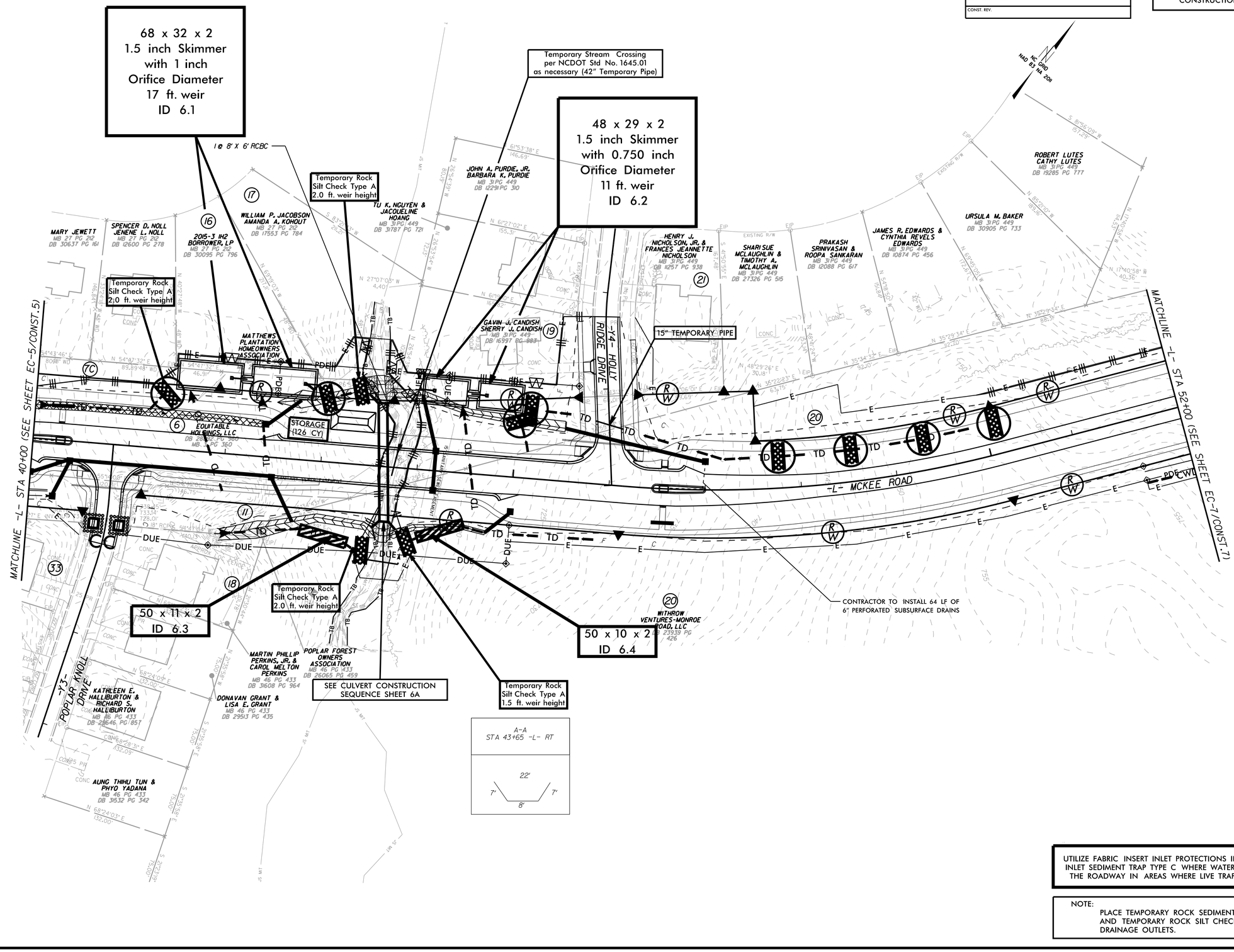
RIGHT-OF-WAY REV.

CONST. REV.

PROJECT REFERENCE NO.	SHEET NO.
U-4713A	EC-6/CONST.6

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 6



UTILIZE FABRIC INSERT INLET PROTECTIONS IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE C WHERE WATER MAY POND ON THE ROADWAY IN AREAS WHERE LIVE TRAFFIC IS PRESENT.

NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE – B AND TEMPORARY ROCK SILT CHECKS TYPE – A AT DRAINAGE OUTLETS.

6/3/2024 K:\CHL_PRJ\0110364426 - McKee Rd Ext\Environmental\Design\U-4713A_ec_psh_6.dgn

CULVERT CONSTRUCTION SEQUENCE STA. 43+65 –L–

PROJECT REFERENCE NO.	SHEET NO.
U-4713A	EC-6A/CONST.6

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RIGHT-OF-WAY REV.

CONST. REV.

REVISIONS

STAGE I

CULVERT CONSTRUCTION SEQUENCE
STAGE I

1.INSTALL STILLING BASIN.

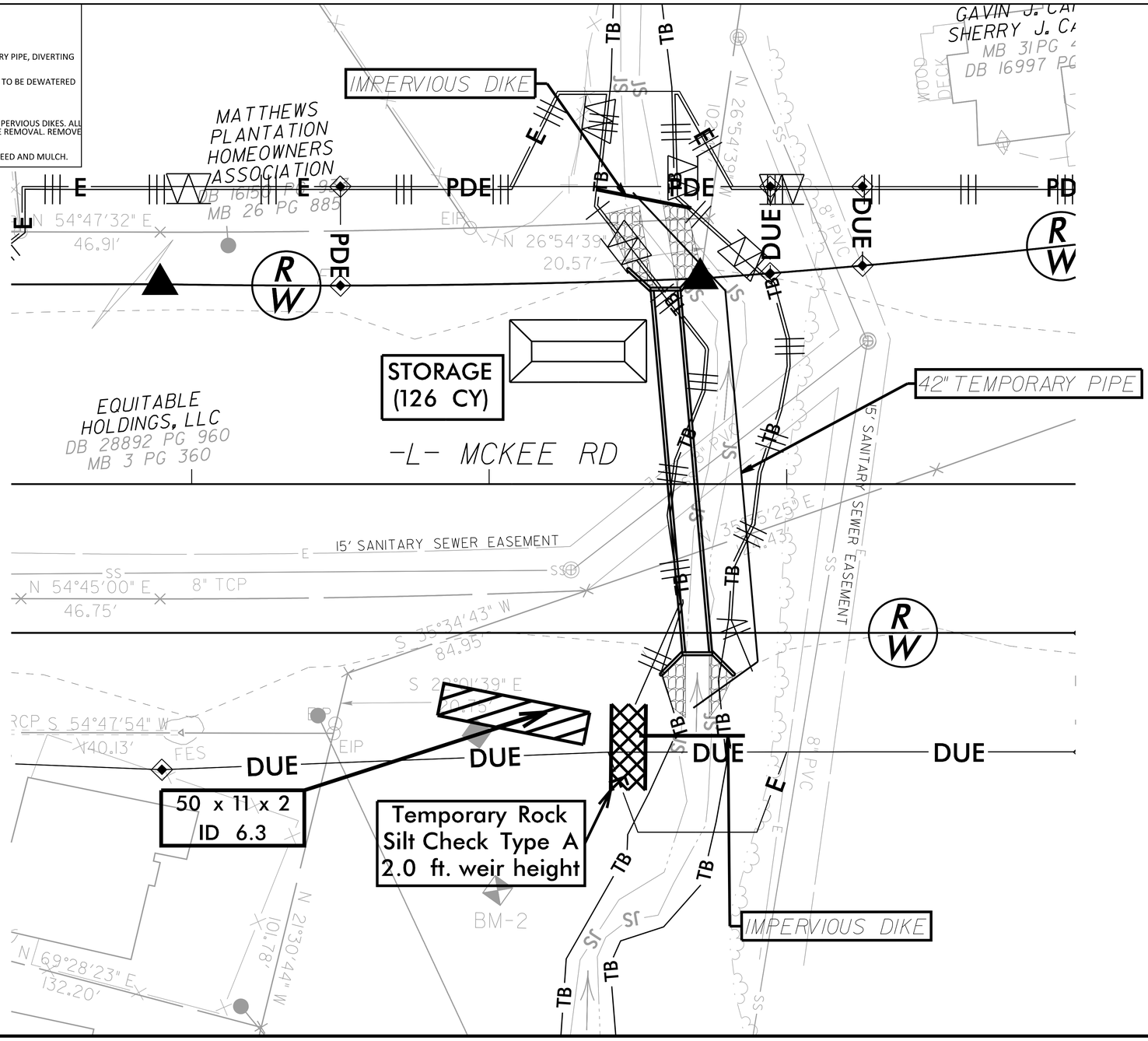
2.CONSTRUCT UPSTREAM IMPERVIOUS DIKES AND INSTALL 42 INCH TEMPORARY PIPE, DIVERTING FLOW THROUGH THE TEMPORARY PIPE.

3. PLACE DOWNSTREAM IMPERVIOUS DIKE. DEWATER ENTRAPPED AREA. AREA TO BE DEWATERED SHALL BE EQUAL TO ONE DAY'S WORK.

4. INSTALL BOX CULVERT AND HEADWALLS IN ACCORDANCE WITH THE PLANS.

5. EXCAVATE ANY ACCUMULATED SILT AND DEWATER BEFORE REMOVAL OF IMPERVIOUS DIKES. ALL STREAM IMPROVEMENTS NEED TO BE COMPLETED PRIOR TO IMPERVIOUS DIKE REMOVAL. REMOVE IMPERVIOUS DIKES , AND TEMPORARY PIPE (DOWNSTREAM DIKES FIRST).

6. REMOVE STILLING BASIN AND BACKFILL STABILIZED DISTURBED AREA WITH SEED AND MULCH.



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RIGHT-OF-WAY REV.

CONST. REV.

PROJECT REFERENCE NO.	SHEET NO.
U-4713A	EC-7/CONST.7

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 7

NC GRID NAD 83 NE 2011

34
TROTTER PROPERTIES LLC
DB 19840 PG 566

RIGHT OF WAY AND EASEMENTS ACQUIRED AS PART OF U-4714AC PROJECT

HAWTHORNE'S HOLDING GROUP, LLC
DB 19895 PG 871

23

EAST JOHN STREET

2217 EAST JOHN ST LLC
DB 19636 PG 619

TROTTER PROPERTIES LLC
DB 19840 PG 566

22

STORAGE (57 CY)

60" RCP-III (BURIED 12")

S 27° 06' 27.0" E

-L- MCKEE ROAD

MCKEE ROAD

INSTALL 60" RCP-III CULVERT USING PUMP-AROUND OPERATION. SEE SHEET EC-2B

MATCHLINE -L- STA 52+00 (SEE SHEET EC-6/CONST.6)

N 35° 23' 25.4" E

24

WITHROW VENTURES - MONROE ROAD
DB 23939 PG 426

25

WITHROW VENTURES-MONROE ROAD, LLC
MB 3 PG 152
DB 23939 PG 441

Temporary Rock Silt Check Type A 1.0 ft. weir height

20
WITHROW VENTURES-MONROE ROAD, LLC
DB 23939 PG 426

WITHROW VENTURES MONROE RD LLC
DB 23939 PG 436
MB 14 PG 217
PH. LOT 1

WITHROW VENTURES MONROE RD LLC
DB 24293 PG 225
MB 14 PG 217
LOT 2

B-B
STA 60+70 -L- RT

22'
5'
5'
4'

MORNINGWOOD DRIVE

JOSEPH C MARTIN
DB 17493 PG 938
MB 14 PG 217
LOT 14

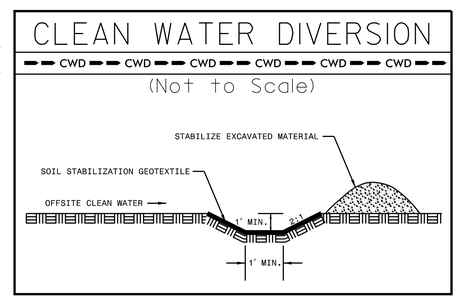
HAROLD JOSEPH TENNANT
DB 19822 PG 726
MB 14 PG 217
LOT 13

2309 EAST ...
DB 1954...

CLEAN WATER DIVERSION

CWD CWD CWD CWD CWD CWD

(Not to Scale)



NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE – B AND TEMPORARY ROCK SILT CHECKS TYPE – A AT DRAINAGE OUTLETS.

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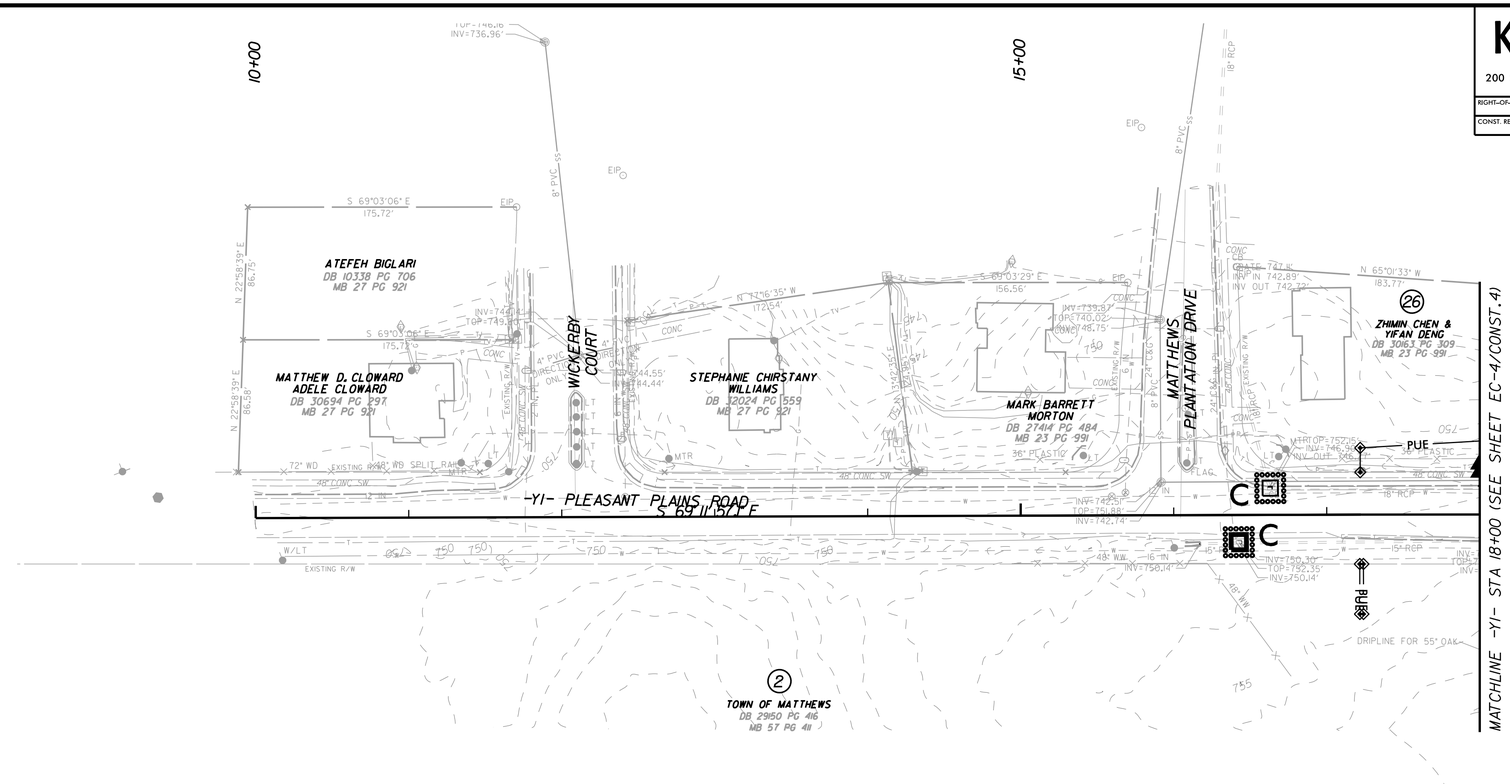
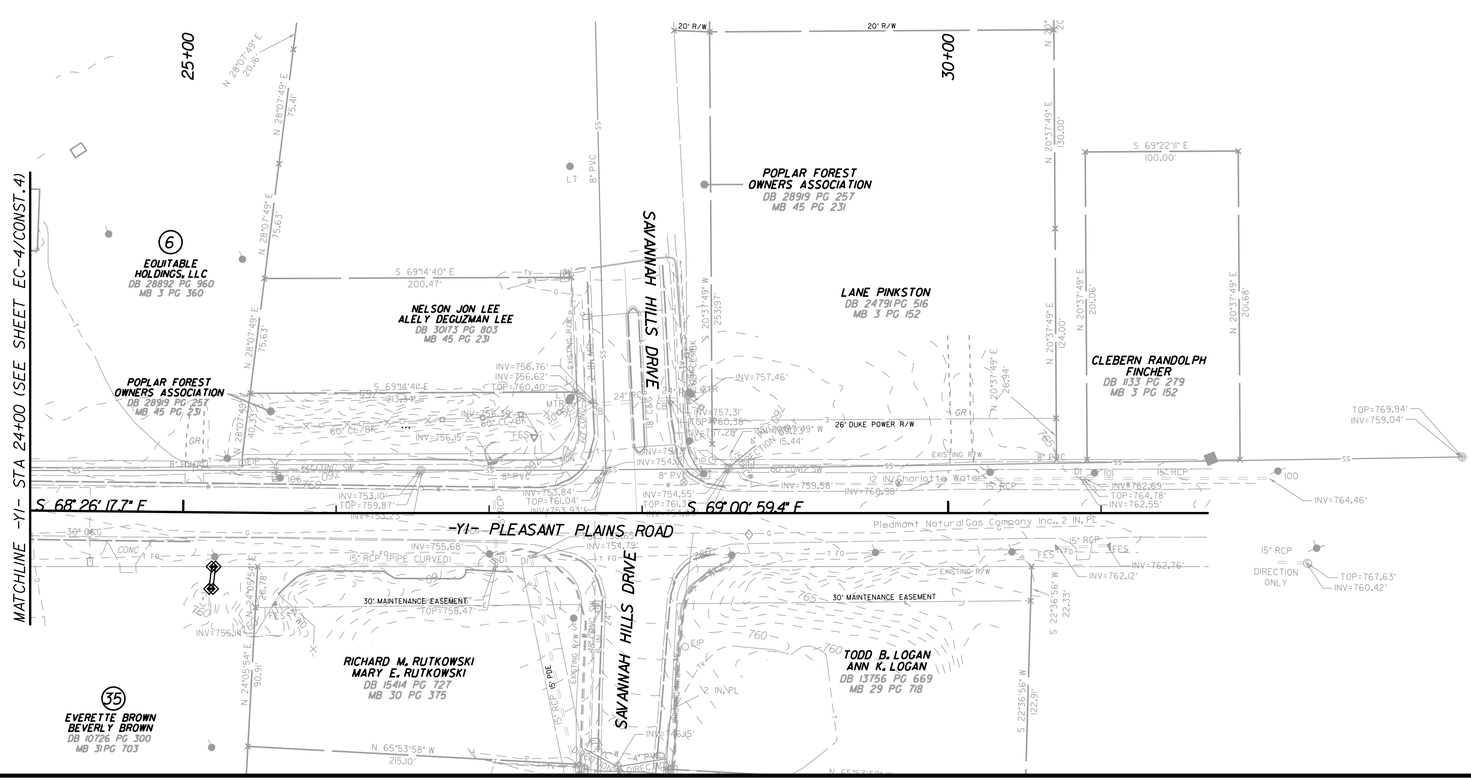
RIGHT-OF-WAY REV.

CONST. REV.

PROJECT REFERENCE NO.	SHEET NO.
U-4713A	EC-8/CONST.8

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 8



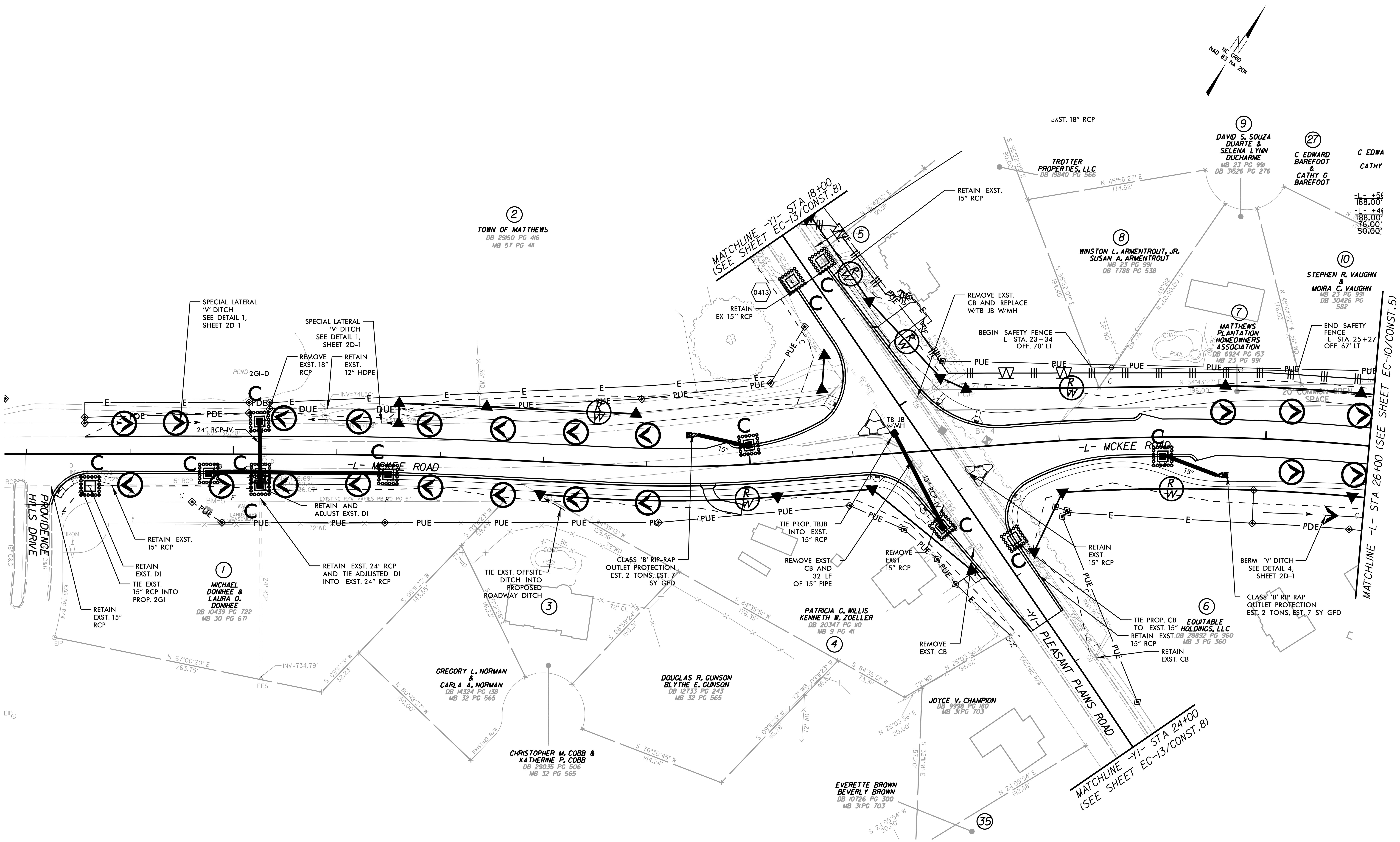


UTILIZE FABRIC INSERT INLET PROTECTIONS IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE C WHERE WATER MAY POND ON THE ROADWAY IN AREAS WHERE LIVE TRAFFIC IS PRESENT.

NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE – B AND TEMPORARY ROCK SILT CHECKS TYPE – A AT DRAINAGE OUTLETS.

6/3/2024 K:\CHL_PRJ\011036426 - McKee Rd Ext\Environmental\Design\U-4713A_ec_psh_8.dgn

Kimley»Horn	PROJECT REFERENCE NO.	SHEET NO.
200 S. TRYON ST. • CHARLOTTE, NC 28202	U-4713A	EC-9/CONST.4
RIGHT-OF-WAY REV.		
CONST. REV.		



NC GRID NAD 83 NA 2011
-L- MCKEE ROAD
-Y1- PLEASANT PLAINS ROAD
PROVIDENCE HILLS DRIVE
MATCHLINE -Y1- STA 18+00 (SEE SHEET EC-13/CONST.8)
MATCHLINE -Y1- STA 24+00 (SEE SHEET EC-13/CONST.8)
MATCHLINE -L- STA 26+00 (SEE SHEET EC-10/CONST.5)
SPECIAL LATERAL 'V' DITCH SEE DETAIL 1, SHEET 2D-1
REMOVE EXST. 18" RCP
RETAIN EXST. 12" HDPE
RETAIN EX 15" RCP
RETAIN EXST. 15" RCP
REMOVE EXST. CB AND REPLACE W/TB JB W/MH
BEGIN SAFETY FENCE -L- STA. 23+34 OFF. 70' LT
END SAFETY FENCE -L- STA. 25+27 OFF. 67' LT
RETAIN AND ADJUST EXST. DI
RETAIN EXST. 24" RCP AND TIE ADJUSTED DI INTO EXST. 24" RCP
RETAIN EXST. DI
TIE EXST. 15" RCP INTO PROP. 2GI
TIE EXST. OFFSITE DITCH INTO PROPOSED ROADWAY DITCH
CLASS 'B' RIP-RAP OUTLET PROTECTION EST. 2 TONS, EST. 7 SY GFD
TIE PROP. TBJB INTO EXST. 15" RCP
REMOVE EXST. CB AND 32 LF OF 15" PIPE
REMOVE EXST. 15" RCP
REMOVE EXST. CB
TIE PROP. CB TO EXST. 15" RCP
RETAIN EXST. 15" RCP
RETAIN EXST. CB
BERM 'V' DITCH SEE DETAIL 4, SHEET 2D-1
TB JB W/MH
2GI-D
POND
20' COMMON OPEN SPACE
EXST. 18" RCP
(2) TOWN OF MATTHEWS DB 29150 PG 416 MB 57 PG 411
(9) DAVID S. SOUZA DUARTE & SELENA LYNN DUCHARME MB 23 PG 991 DB 31526 PG 276
(27) C EDWARD BAREFOOT & CATHY G BAREFOOT
TROTTER PROPERTIES, LLC DB 19840 PG 566
(8) WINSTON L. ARMENTROUT, JR. SUSAN A. ARMENTROUT MB 23 PG 991 DB 7788 PG 538
(10) STEPHEN R. VAUGHN & MOIRA C. VAUGHN MB 23 PG 991 DB 30426 PG 582
(7) MATTHEWS PLANTATION HOMEOWNERS ASSOCIATION DB 6924 PG 153 MB 23 PG 991
(1) MICHAEL DONIHEE & LAURA D. DONIHEE DB 10439 PG 722 MB 30 PG 671
(3) GREGORY L. NORMAN & CARLA A. NORMAN DB 14324 PG 138 MB 32 PG 565
CHRISTOPHER M. COBB & KATHERINE P. COBB DB 29035 PG 506 MB 32 PG 565
DOUGLAS R. GUNSON BLYTHE E. GUNSON DB 12733 PG 243 MB 32 PG 565
(4) PATRICIA G. WILLIS KENNETH W. ZOELLER DB 20347 PG 110 MB 9 PG 41
(6) EQUITABLE HOLDINGS, LLC DB 28892 PG 960 MB 3 PG 360
JOYCE V. CHAMPION DB 9998 PG 180 MB 31 PG 703
EVERETTE BROWN BEVERLY BROWN DB 10726 PG 300 MB 31 PG 703
(35)

UTILIZE FABRIC INSERT INLET PROTECTIONS IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE C WHERE WATER MAY POND ON THE ROADWAY IN AREAS WHERE LIVE TRAFFIC IS PRESENT.

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200 S. TRYON ST. • CHARLOTTE, NC 28202
RIGHT-OF-WAY REV.
CONST. REV.

PROJECT REFERENCE NO.	SHEET NO.
U-4713A	EC-10/CONST.5

NC GRID
NAD 83 NA 2011

RETAIN EXST. 24"
TIE PROP. 24" INTO EXST. OTCB
27 C EDWARD BAREFOOT & CATHY G BAREFOOT
28 YAZHEN HUANG MB 23 PG 991
29 MICHAEL L. LAVELLE AUDREY A. LAVELLE MB 23 PG 991 DB 8811PG 333
30 TRAVIS G. KLEIN & AUDRY KARPPINEN KLEIN MB 23 PG 991 DB 21070 PG 362
31 ROBERT D. COX DONNA J. COX MB 23 PG 991 DB 7123 PG 550
32 MIRANDA LIVING TRUST
FRANK V. OSWALT DARLENE J. OSWALT MB 27 PG 212 DB 17510 PG 104
RETAIN EXST. 18"
TIE PROP. 18" INTO EXST. OTCB
STUART L. A. MOFFAT JULIE H. MOFFAT MB 27 PG 212 DB 10287 PG 31
FALSE SUMP SEE DETAIL 2 SHEET 2D-1
FALSE SUMP SEE DETAIL 7 SHEET 2D-1
CLASS 'B' RIP-RAP OUTLET PROTECTION EST. 2 TONS, EST. 7
PUE - SY GFD
EQUITABLE HOLDINGS, LLC DB 28892 PG 964 MB 3 PG 360
12 BILTMORE FOREST DR.
ROBIN L. HUNTER & CONNIE J. HUNTER MB 27 PG 212 DB 9992 PG 15
GERALD COLEMAN BROOMER & DONNA FAY BROOMER MB 27 PG 212 DB 27108 PG 718
GEOFFREY L. BROWN & FERN M. BROWN MB 27 PG 212 DB 3681 PG 792
RETAIN EXISTING OTCB-4 AND 18" RCP PLUG, FILL, AND ABANDON EXST. 15" PIPE
RACHEL L. RICH & CHUONG THIEN LUC MB 27 PG 212 DB 28247 PG 673
MATTHEWS PLANTATION HOMEOWNERS ASSOCIATION DB 16950 PG 933 MB 26 PG 885
LESTER A. COAMBS & VICKIE O. COAMBS COAMBS FAMILY TRUST MB 27 PG 212 DB 27124 PG 29
JACK V. VINES GRACE L. VINES MB 27 PG 212 DB 9594 PG 990
RUSSELL M. HELDERMAN SUSAN W. HELDERMAN MB 27 PG 212 DB 9188 PG 981
MARY JEWETT MB 27 PG 212 DB 30637 PG 161
CUT DITCH W/PSRM EST 810 SY PSRM SEE DETAIL 3, SHEET 2D-1
FALSE SUMP SEE DETAIL 7, SHEET 2D-1
-L- MCKEE ROAD
POPLAR FOREST OWNERS ASSOCIATION MB 45 PG 231 DB 28919 PG 2
POPLAR FOREST OWNERS ASSOCIATION MB 46 PG 469 DB 26065 PG 469
CONTRACTOR TO INSTALL 68 LF OF 6" PERFORATED SUBSURFACE DRAINS
LATERAL 'V' DITCH SEE DETAIL 13, SHEET 2D-1
LATERAL 'V' DITCH SEE DETAIL 11, SHEET 2D-1
LATERAL 'V' DITCH SEE DETAIL 11, SHEET 2D-1
72 x 12 x 3 ID 10.1
Temporary Rock Silt Check Type A 2.0 ft. weir height
CONTRACTOR TO INSTALL 68 LF OF 6" PERFORATED SUBSURFACE DRAINS
33 KATINA MOORE HOLDEN MB 46 PG 433 DB 29283 PG 112
MICHAEL RAY FUNDERBURG MB 45 PG 231 DB 28051PG 922
BILLY M. HELMS & MARY E. HELMS MB 46 PG 433 DB 26549 PG 654
THOMAS A. WRIGHT & DEBORAH O. WRIGHT MB 46 PG 433 DB 24010 PG 360
SAMUEL P. SPOTO CARLA H. SPOTO MB 45 PG 231 DB 20948 PG 482
CLINTON C. HICKS SYLVIA F. HICKS MB 45 PG 231 DB 21774 PG 121
JULIE A. MULLEN & MITCHELL MULLEN MB 45 PG 231 DB 20852 PG 520
RAYNOLD WORTH ALLEN, JR. CHARLAIN ADAMS ALLEN MB 45 PG 231 DB 23061PG 810
ROBERT J. SALMEN & LAURA L. SALMEN MB 45 PG 231 DB 30627 PG 652
JAMES F. CAHILL & EVELYN S. CAHILL MB 45 PG 231 DB 26012 PG 925
GEORGE ROBERT BROWN, JR. E. RENEE BROWN MB 45 PG 231 DB 22350 PG 391
JUSTIN W. THRASHER & KOURTNEY L. THRASHER MB 45 PG 231 DB 21920 PG 343
TIMOTHY L. HAGEMAN & ALAINA L. HAGEMAN MB 45 PG 231 DB 29002 PG 894
RICHARD P. PRUSSO MB 45 PG 231 DB 31950 PG 106
TRAIAN GHIT & CAMELIA A. GHIT MB 45 PG 231 DB 30649 PG 703
LEIGH A. KITCHIN MB 45 PG 231 DB 26684 PG 874
BERM 'V' DITCH SEE DETAIL 4, SHEET 2D-1
FALSE SUMP SEE DETAIL 2 SHEET 2D-1
OTCB-4
BERM 'V' DITCH SEE DETAIL 4, SHEET 2D-1
MATCHLINE -L- STA 26+00 (SEE SHEET EC-9/CONST.4)
MATCHLINE -L- STA 40+00 (SEE SHEET EC-11/CONST.6)
30+00
35+00
40+00

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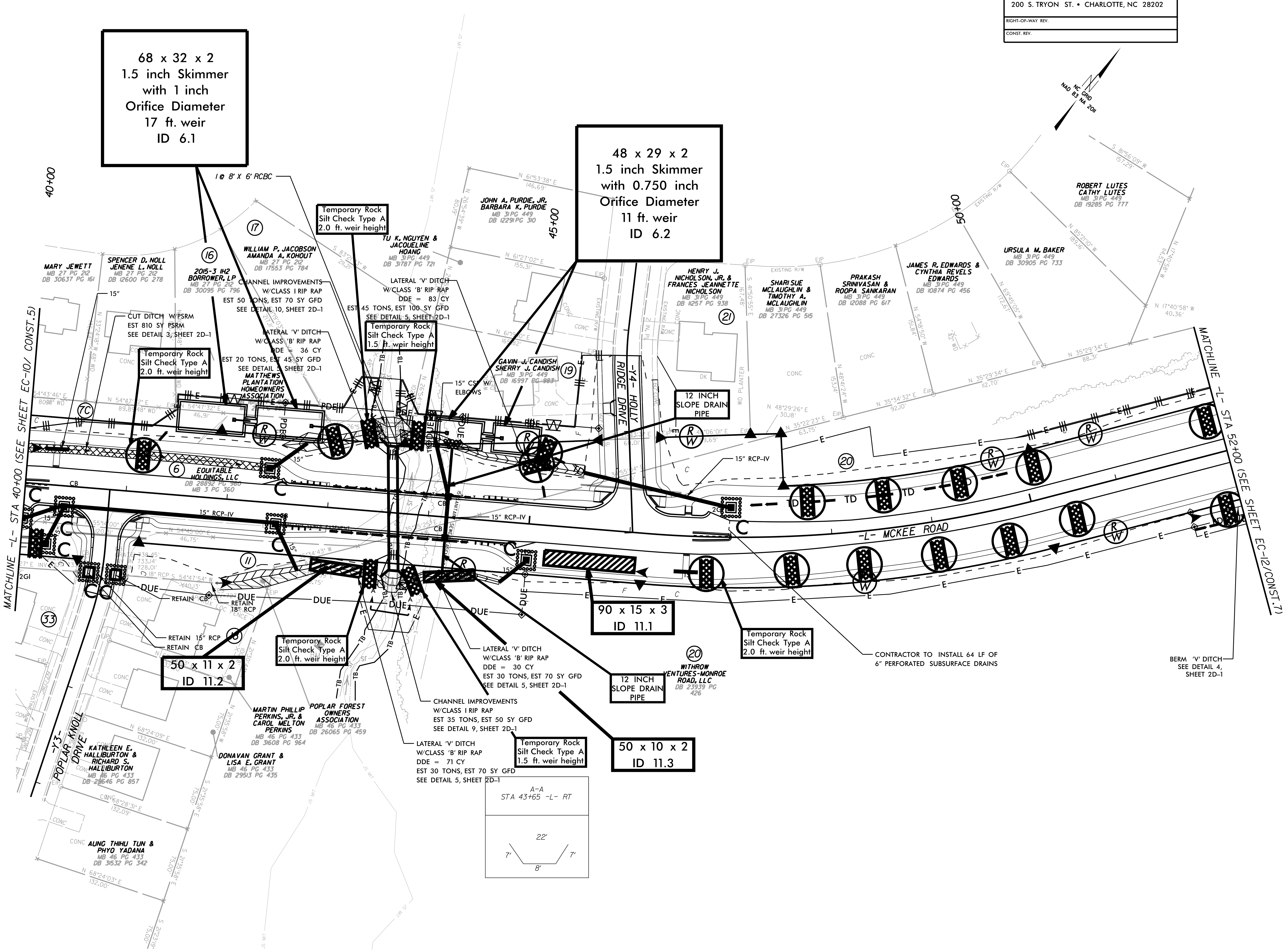
PROJECT REFERENCE NO.	SHEET NO.
U-4713A	EC-11/CONST.6

RIGHT-OF-WAY REV.
CONST. REV.



68 x 32 x 2
1.5 inch Skimmer
with 1 inch
Orifice Diameter
17 ft. weir
ID 6.1
48 x 29 x 2
1.5 inch Skimmer
with 0.750 inch
Orifice Diameter
11 ft. weir
ID 6.2
90 x 15 x 3
ID 11.1
50 x 11 x 2
ID 11.2
50 x 10 x 2
ID 11.3
1@ 8' X 6' RCBC
Temporary Rock Silt Check Type A 2.0 ft. weir height
Temporary Rock Silt Check Type A 1.5 ft. weir height
12 INCH SLOPE DRAIN PIPE
CHANNEL IMPROVEMENTS W/CLASS I RIP RAP EST 50 TONS, EST 70 SY GFD SEE DETAIL 10, SHEET 2D-1
LATERAL 'V' DITCH W/CLASS 'B' RIP RAP DDE = 83 CY EST 45 TONS, EST 100 SY GFD SEE DETAIL 5, SHEET 2D-1
LATERAL 'V' DITCH W/CLASS 'B' RIP RAP DDE = 36 CY EST 20 TONS, EST 45 SY GFD SEE DETAIL 5, SHEET 2D-1
CUT DITCH W/PSRM EST 810 SY PSRM SEE DETAIL 3, SHEET 2D-1
LATERAL 'V' DITCH W/CLASS 'B' RIP RAP DDE = 30 CY EST 30 TONS, EST 70 SY GFD SEE DETAIL 5, SHEET 2D-1
CHANNEL IMPROVEMENTS W/CLASS I RIP RAP EST 35 TONS, EST 50 SY GFD SEE DETAIL 9, SHEET 2D-1
LATERAL 'V' DITCH W/CLASS 'B' RIP RAP DDE = 71 CY EST 30 TONS, EST 70 SY GFD SEE DETAIL 5, SHEET 2D-1
CONTRACTOR TO INSTALL 64 LF OF 6" PERFORATED SUBSURFACE DRAINS
BERM 'V' DITCH SEE DETAIL 4, SHEET 2D-1
15" CS W/ ELBOWS
15" RCP-IV
RETAIN CB
RETAIN 18" RCP
RETAIN 15" RCP
MATCHLINE -L- STA 40+00 (SEE SHEET EC-10/CONST.5)
MATCHLINE -L- STA 52+00 (SEE SHEET EC-12/CONST.7)
-L- MCKEE ROAD
-Y4- HOLLY RIDGE DRIVE
-Y3- POPLAR KNOLL DRIVE
40+00
45+00
50+00
MARY JEWETT MB 27 PG 212 DB 30637 PG 161
SPENCER D. NOLL JENENE L. NOLL MB 27 PG 212 DB 12600 PG 278
2015-3 IH2 BORROWER, LP MB 27 PG 212 DB 30095 PG 796
WILLIAM P. JACOBSON AMANDA A. KOHOUT MB 27 PG 212 DB 17553 PG 784
TU K. NGUYEN & JACQUELINE HOANG MB 31 PG 449 DB 31787 PG 721
JOHN A. PURDIE, JR. BARBARA K. PURDIE MB 31 PG 449 DB 12291 PG 310
HENRY J. NICHOLSON, JR. & FRANCES JEANNETTE NICHOLSON MB 31 PG 449 DB 11257 PG 938
SHARI SUE MCLAUGHLIN & TIMOTHY A. MCLAUGHLIN MB 31 PG 449 DB 27326 PG 515
PRAKASH SRINIVASAN & ROOPA SANKARAN MB 31 PG 449 DB 12088 PG 617
JAMES R. EDWARDS & CYNTHIA REVELS EDWARDS MB 31 PG 449 DB 10874 PG 456
URSULA M. BAKER MB 31 PG 449 DB 30905 PG 733
ROBERT LUTES CATHY LUTES MB 31 PG 449 DB 19285 PG 777
GAVIN J. CANDISH SHERRY J. CANDISH MB 31 PG 449 DB 16997 PG 983
MATTHEWS PLANTATION HOMEOWNERS ASSOCIATION
EQUITABLE HOLDINGS, LLC DB 28892 PG 360 MB 3 PG 360
WITHROW VENTURES-MONROE ROAD, LLC DB 23939 PG 426
MARTIN PHILLIP PERKINS, JR. & CAROL MELTON PERKINS MB 46 PG 433 DB 31608 PG 964
POPLAR FOREST OWNERS ASSOCIATION MB 46 PG 433 DB 26065 PG 459
DONAVAN GRANT & LISA E. GRANT MB 46 PG 433 DB 29513 PG 435
KATHLEEN E. HALLIBURTON & RICHARD S. HALLIBURTON MB 46 PG 433 DB 29646 PG 857
AUNG THIHU TUN & PHYO YADANA MB 46 PG 433 DB 31532 PG 342
A-A STA 43+65 -L- RT
22'
7'
8'
NC GRID NAD 83 NA 2011

UTILIZE FABRIC INSERT INLET PROTECTIONS IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE C WHERE WATER MAY POND ON THE ROADWAY IN AREAS WHERE LIVE TRAFFIC IS PRESENT.

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RIGHT-OF-WAY REV.

CONST. REV.

PROJECT REFERENCE NO.	SHEET NO.
U-4713A	EC-12/CONST.7

NC GRID NAD 83 NA 2011

55+00

60+00

MATCHLINE -L- STA 52+00 (SEE SHEET EC-11/CONST.6)

-L- MCKEE ROAD

EAST JOHN STREET

MCKEE ROAD

MORNINGWOOD DRIVE

84 x 14 x 3
ID 12.2

84x 14 x 3
ID 12.1

Temporary Rock Silt Check Type A 2.0 ft. weir height

Temporary Rock Silt Check Type A 2.5 ft. weir height

Temporary Rock Silt Check Type A 1.0 ft. weir height

OUTLET PROTECTION
CLASS B RIP RAP
EST 5 TONS
34 EST 14 SY GFD

LATERAL 'V' DITCH
SEE DETAIL 6,
SHEET 2D-1

RIGHT OF WAY AND EASEMENTS ACQUIRED AS PART OF U-4714AC PROJECT

COUNTER-SUNK
OUTLET PROTECTION
W/CLASS I RIP RAP
EST 26 TONS
EST 50 SY GFD

60" RCP-III
(BURIED 12")

INSTALL 60" RCP-III CULVERT USING PUMP-AROUND OPERATION.SEE SHEET EC-2B

REMOVE EXST. 30" RCP
STANDARD 4' BASE DITCH
W/COUNTER-SUNK
CLASS I RIP RAP
EST 20 TONS
EST 25 SY GFD ON
BANKS ONLY
SEE DETAIL 8, SHEET 2D-1
S = 5.8%, DDE = .50 CY

SPECIAL LATERAL 'V' DITCH
SEE DETAIL 1, SHEET 2D-1

SPECIAL LATERAL 'V' DITCH
SEE DETAIL 2, SHEET 2D-1

TRANSITION FROM
BERM 'V' DITCH
TO SPECIAL
LATERAL 'V' DITCH

BERM 'V' DITCH
SEE DETAIL 4,
SHEET 2D-1

N 35° 23' 25.4" E

N 57° 06' 27.0" E

TROTTER PROPERTIES LLC
DB 19840 PG 566

TROTTER PROPERTIES LLC
DB 19840 PG 566

WITHROW VENTURES - MONROE ROAD
DB 23939 PG 426

WITHROW VENTURES-MONROE ROAD, LLC
MB 3 PG 152
DB 23939 PG 441

WITHROW VENTURES-MONROE ROAD, LLC
DB 23939 PG 426

WITHROW VENTURES MONROE RD LLC
DB 23939 PG 436
MB 14 PG 217
LOT 1

WITHROW VENTURES MONROE RD LLC
DB 24233 PG 525
MB 14 PG 217
LOT 2

HAWTHORNE STREET HOLDING GROUP, LLC
DB 3995 PG 871

2217 EAST JOHN ST LLC
DB 19636 PG 619

JOSEPH C MARTIN
DB 17493 PG 938
MB 14 PG 217
LOT 14

HAROLD JOSEPH TENNANT
DB 19822 PG 726
MB 14 PG 217
LOT 13

B-B
STA 60+70 -L- RT

22'
5'
4'
5'

CLEAN WATER DIVERSION

CWD CWD CWD CWD CWD CWD

(Not to Scale)

STABILIZE EXCAVATED MATERIAL

SOIL STABILIZATION GEOTEXTILE

OFFSITE CLEAN WATER

1' MIN.

2:1

1' MIN.

UTILIZE FABRIC INSERT INLET PROTECTIONS IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE C WHERE WATER MAY POND ON THE ROADWAY IN AREAS WHERE LIVE TRAFFIC IS PRESENT.

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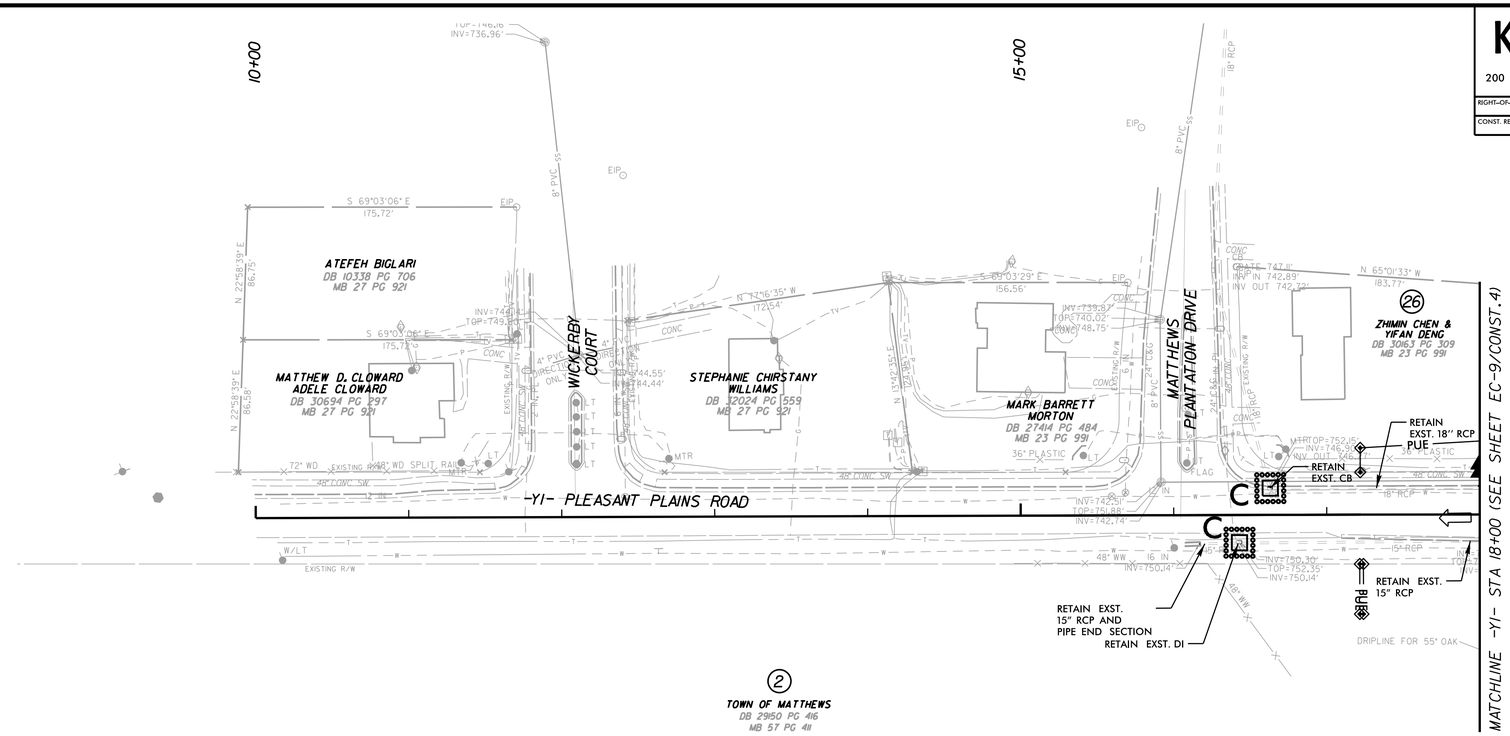
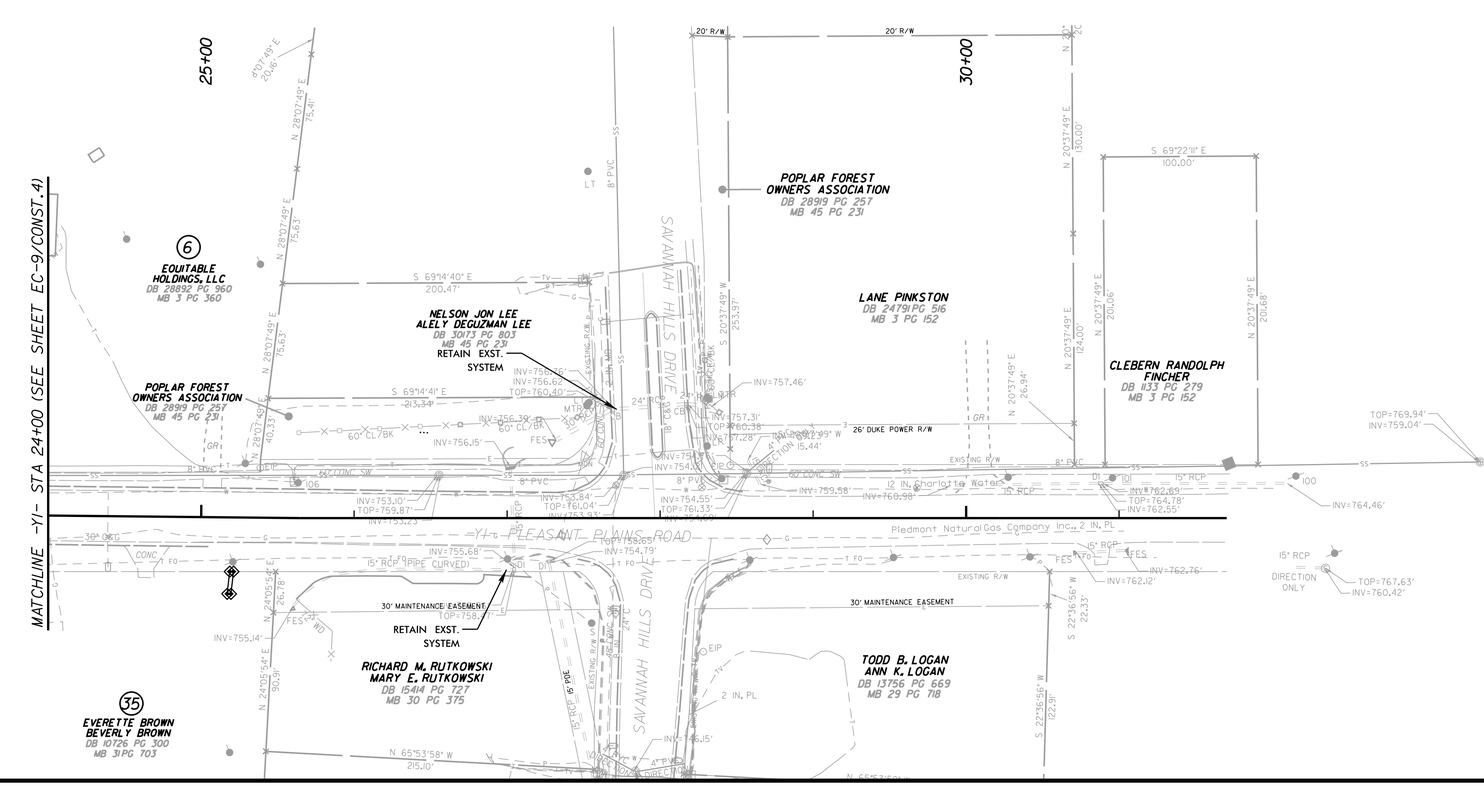
RIGHT-OF-WAY REV.

CONST. REV.

PROJECT REFERENCE NO.	SHEET NO.
U-4713A	EC-13/CONST.8





UTILIZE FABRIC INSERT INLET PROTECTIONS IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE C WHERE WATER MAY POND ON THE ROADWAY IN AREAS WHERE LIVE TRAFFIC IS PRESENT.

6/3/2024 K:\CHL_PRJ\0110364426 - McKee Rd Ext\Environmental\Design\U-4713A_ec_psh_13.dgn