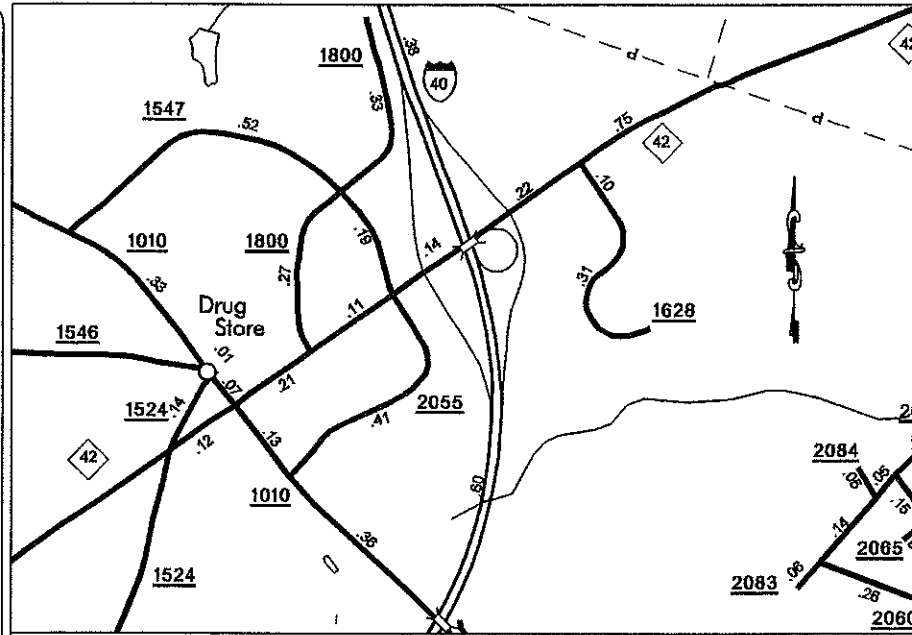


PROJECT: NC 42



VICINITY MAP
CLEVELAND TOWNSHIP

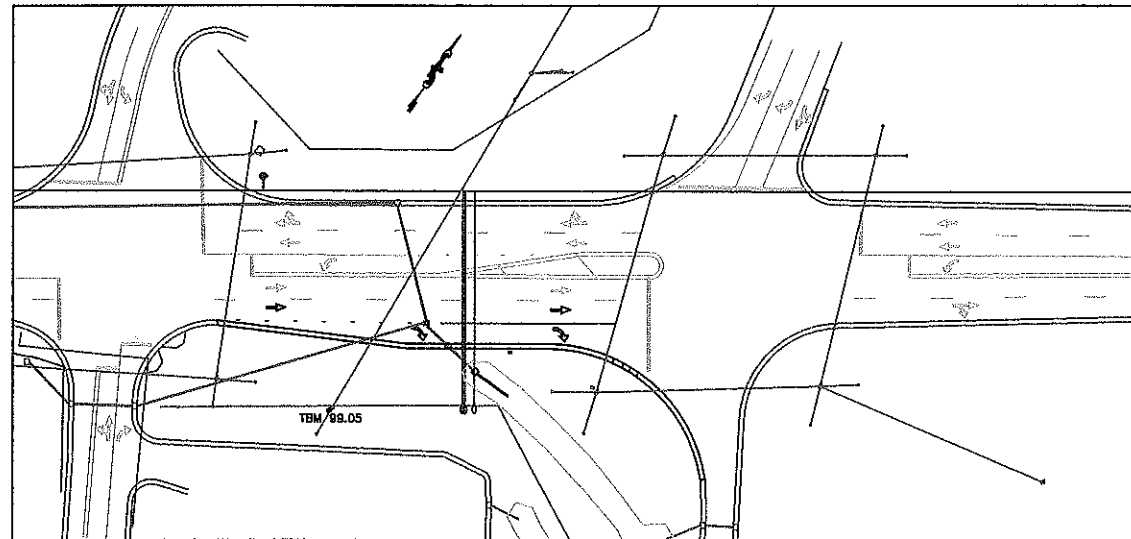
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

JOHNSTON COUNTY

LOCATION: NC 42 FROM SR 1547 (Glen Road)
To I-40 Eastbound On Ramp

TOTAL LENGTH STATE PROJECT 0.055 = MILES

TYPE OF WORK: GRADING, DRAINAGE, BASE, PAVING,
EROSION CONTROL AND PAVEMENT MARKINGS.



STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.		1	4
STATE PROJ. NO.		F. A. PROJ. NO.	DESCRIPTION

CONVENTIONAL SYMBOLS

Existing Shoulders	---
Curb	---
Exist. Right of Way Line w/Marker	---△---
Prop. Right of Way Line w/Marker	---▲---
Exist. Right of Way Marker	△
Prop. Right of Way Marker	▲
Stream or Body of Water	~~~~~
Guy Wire	o
Exist. Power Pole	⊕
Prop. Power Pole	⊖
Exist. Telephone Pole	⊕
Prop. Telephone Pole	⊖
Exist. Joint Use Pole	⊕
Prop. Joint Use Pole	⊖
Telephone Pedestal	⊠
Cable TV Pedestal	⊠
Hydrant	⊕
Exist. Water Valve	⊗
Power Manhole	⊙
Telephone Booth	⊠
Water Manhole	⊙
H-Frame Pole	⊕
Power Line Tower	⊠
Pole with Base	⊕
Gas Valve	⊙
Gas Meter	⊕
Telephone Manhole	⊙
Power Transformer	⊠
Sanitary Sewer Manhole	⊙
Storm Sewer Manhole	⊙
Traffic Signal Junction Box	⊠
Fiber Optic Splice Box	⊠
Water Line	---
Sanitary Sewer	---
Gas Line	---
Storm Sewer	---
Power Line	---
Telephone Cable	---
Television Cable	---
Fiber Optics Cable	---
Exist. Water Meter	o
Exist. Iron Pin	o
Parcel Number	⊙
Property Line	PL
City Limits	---
County Line	---
Survey Centerline	---
Fence Line	---
Single Tree	⊕
Single Shrub	⊕
Hedge	---
Woods Line	---
Standard Gauge	---



PLANS



PROFILE (HORIZONTAL)



PROFILE (VERTICAL)

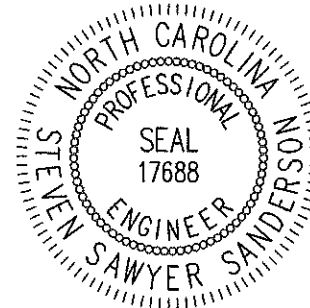
PLANS PREPARED BY:

SANDERSON ENGINEERING
2485 WENDELL BLVD P.O. BOX 2016
WENDELL, NC 27591 C-2218
919-366-2016 267-363-7254 FAX
sandersevenengineering@yahoo.com
Engineering and Land Planning

1 - Revised per Jerry Page 9-6-12

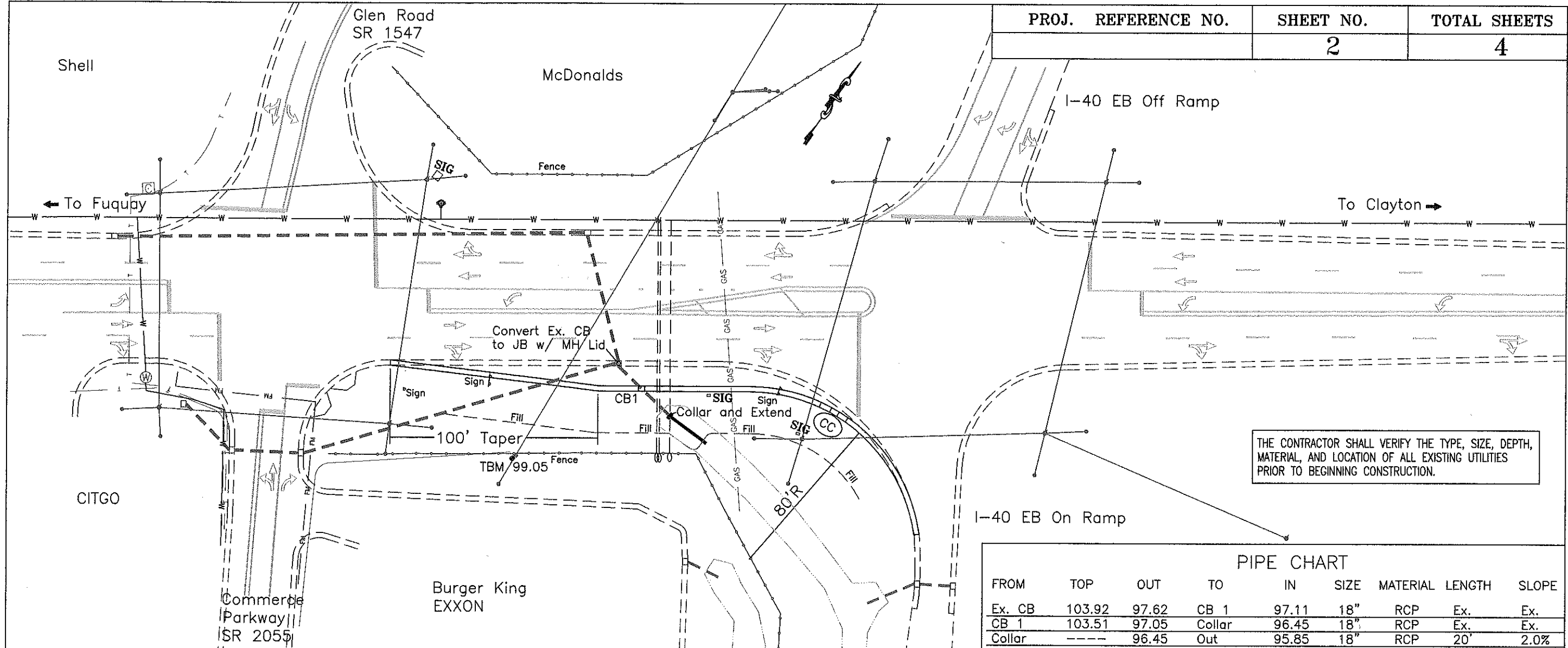
Prepared for the Office of:
DIVISION 4 DISTRICT 3
DIVISION OF HIGHWAYS
2012 STANDARDS SPECIFICATION

RIGHT OF WAY DATE: _____	JOHN ROUSE, P.E. DIVISION ENGINEER
LETTING DATE: _____	C. PENDERGRAPH, P.E. DISTRICT ENGINEER



Steven Sawyer Sanderson
DESIGN ENGINEER P.E.
9-6-2012
DATE

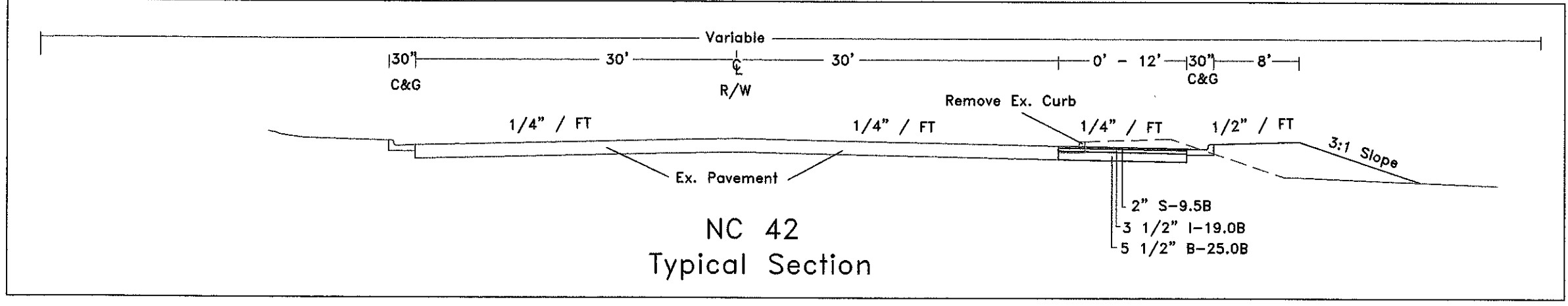
PROJ. REFERENCE NO.	SHEET NO.	TOTAL SHEETS
	2	4



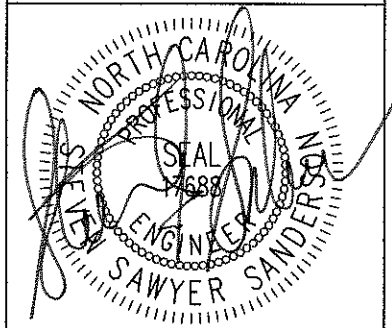
PIPE CHART

FROM	TOP	OUT	TO	IN	SIZE	MATERIAL	LENGTH	SLOPE
Ex. CB	103.92	97.62	CB 1	97.11	18"	RCP	Ex.	Ex.
CB 1	103.51	97.05	Collar	96.45	18"	RCP	Ex.	Ex.
Collar	----	96.45	Out	95.85	18"	RCP	20'	2.0%

Grading, Drainage, Base and Paving Plan



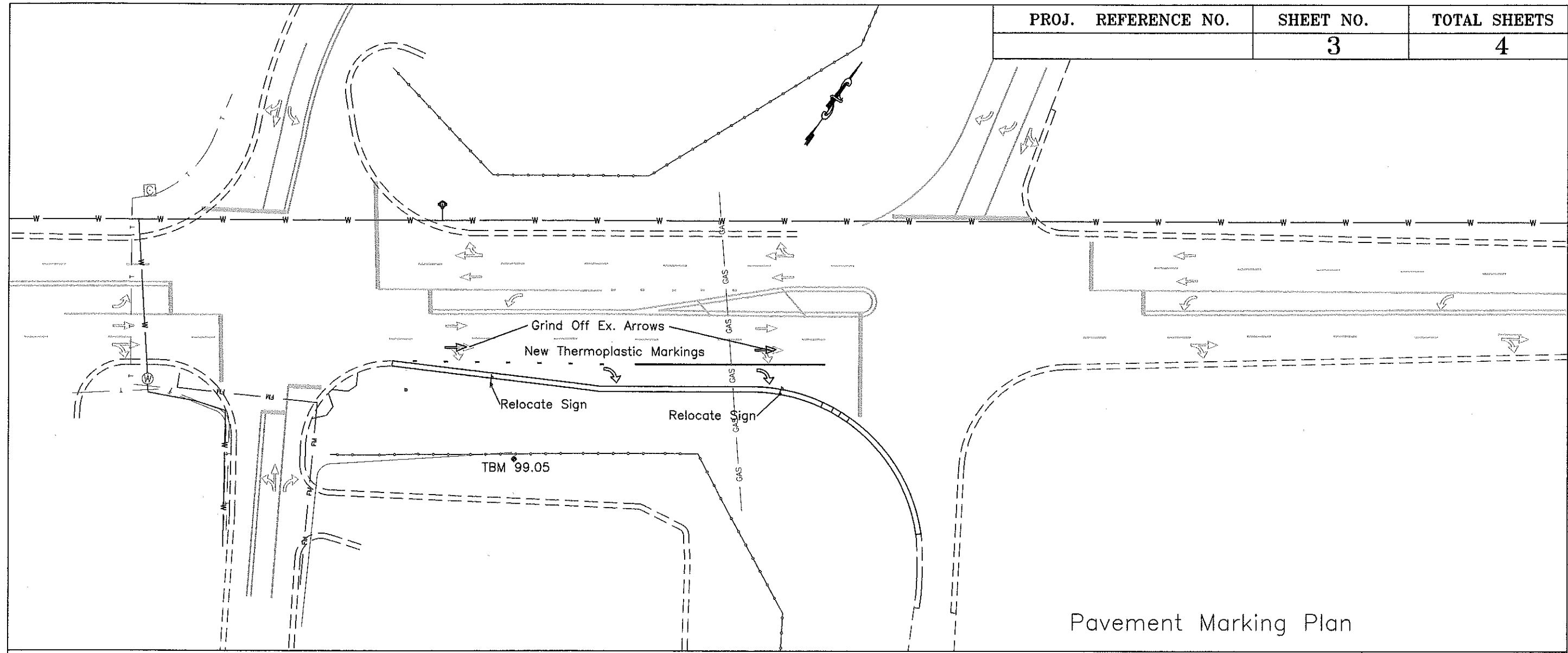
PLANS PREPARED BY:
SANDERSON ENGINEERING
 2485 WENDELL BLVD P.O. BOX 2016
 WENDELL, NC 27591 C-2218
 919-366-2018 267-363-7254 FAX
 sandersonengineering@yahoo.com
 Engineering and Land Planning



9-13-2012

1 - Added UG Utilities per Jerry Page 8-29-12
 2 - Revised per Jerry Page 9-6-12
 3 - Removed DI 2 per Jerry Page 9-13-12

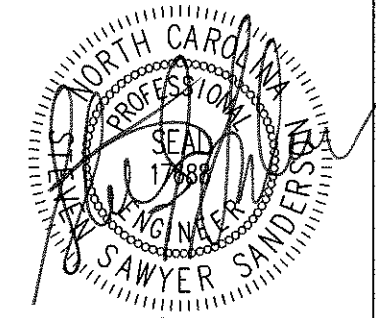
PROJ. REFERENCE NO.	SHEET NO.	TOTAL SHEETS
	3	4



Pavement Marking Plan

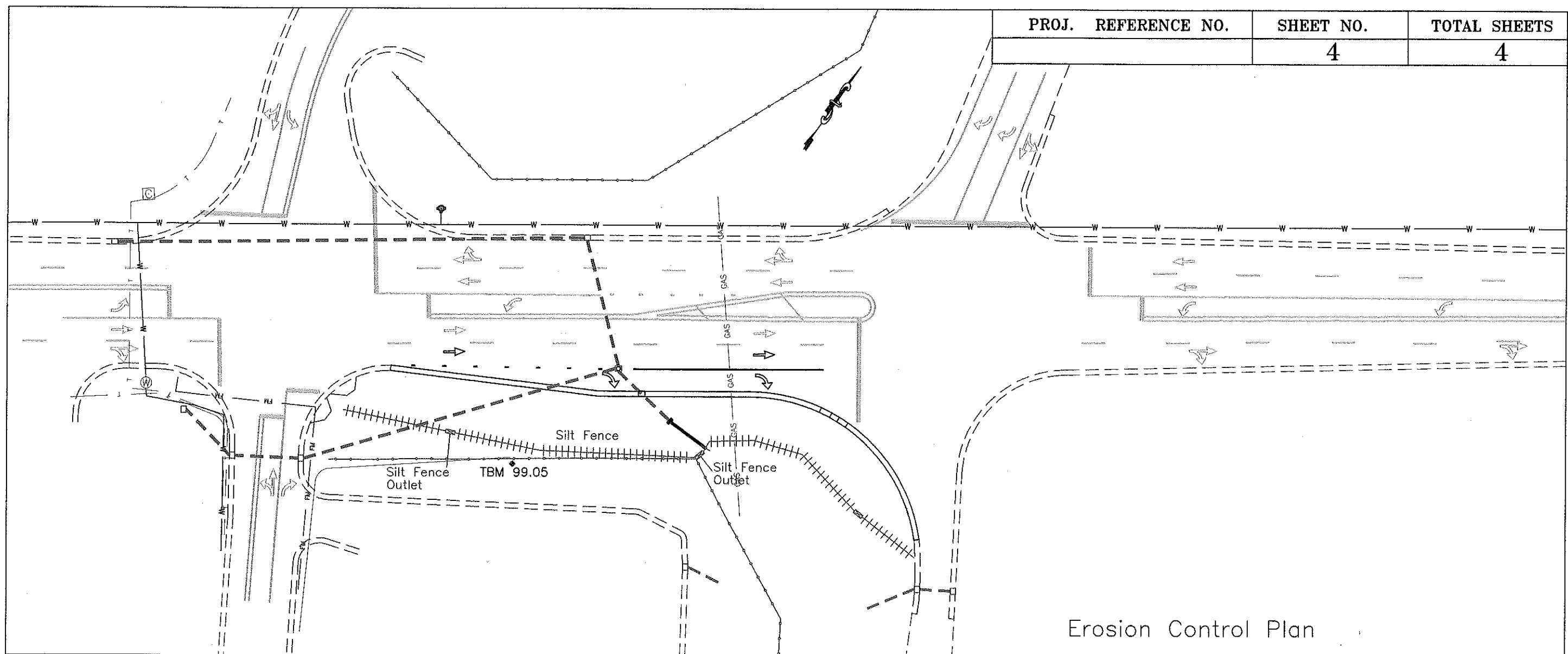
- 1) ALL ROAD CONSTRUCTION IS TO BE IN ACCORDANCE WITH 2012 NCDOT STANDARDS AND SPECIFICATIONS.
- 2) THE CONTRACTOR IS RESPONSIBLE FOR HAVING AN INDEPENDENT ENGINEERING TESTING FIRM VERIFY THAT THE SUB-BASE, BASE, AND ASPHALT MEET NCDOT STANDARDS.
- 3) THE CONTRACTOR IS TO INSURE THAT RADII ARE CONSTRUCTED IN ACCORDANCE WITH THE PLANS AND TYPICAL SECTIONS.
- 4) THE CONTRACTOR SHALL VERIFY THE TYPE, SIZE, DEPTH, MATERIAL, AND LOCATION OF ALL EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION.

PLANS PREPARED BY:
SANDERSON ENGINEERING
 2485 WENDELL BLVD P.O. BOX 2016
 WENDELL, NC 27591 C-2218
 919-366-2016 267-363-7254 FAX
 sandersonengineering@yahoo.com
 Engineering and Land Planning



9-6-2012

PROJ. REFERENCE NO.	SHEET NO.	TOTAL SHEETS
	4	4



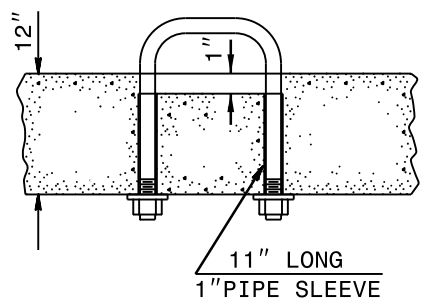
Use NCDOT Standard Drawings for Details

PLANS PREPARED BY:
SANDERSON ENGINEERING
 2485 WENDELL BLVD P.O. BOX 2016
 WENDELL, NC 27591 C-2218
 919-366-2016 267-363-7254 FAX
 sandersonengineering@yahoo.com
 Engineering and Land Planning

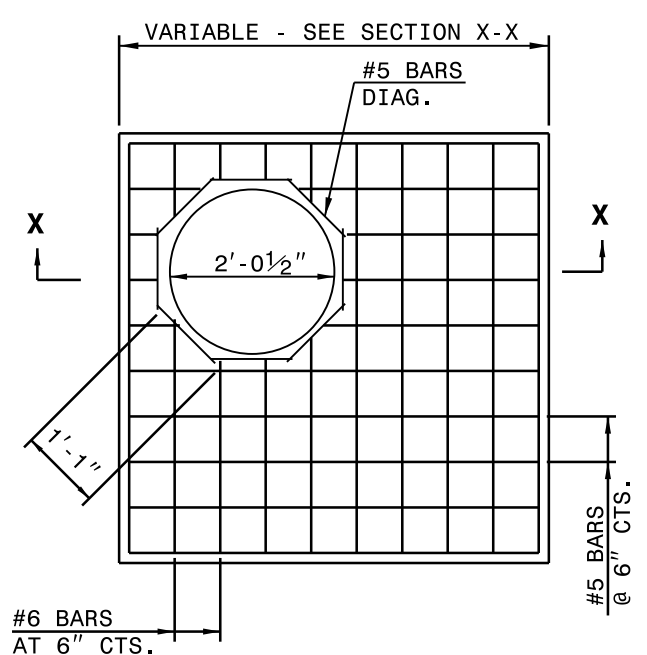
NORTH CAROLINA
 PROFESSIONAL
 SEAL
 17688
 ENGINEER
 SAWYER SANDERSON

9-13-2012

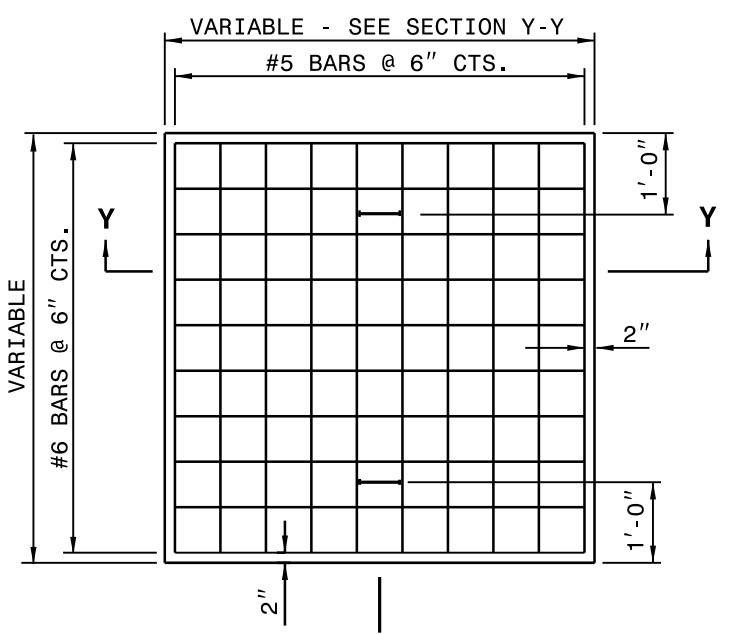
- 1 - Revised per Jerry Page 9-6-12
- 2 - Removed EC Details per Jerry Page 9-13-12



PARTIAL SECTION



PLAN



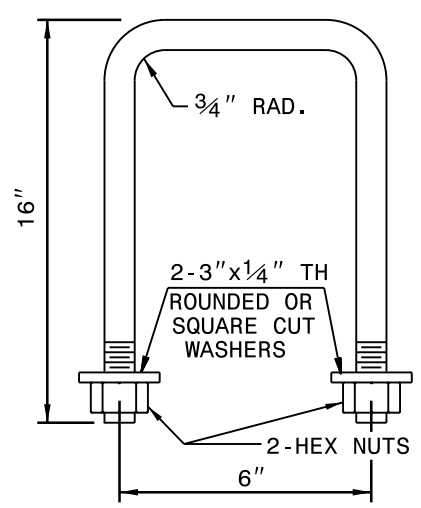
PLAN

GENERAL NOTES:
 CONSTRUCT IN ACCORDANCE WITH SECTION 859 OF THE STANDARD SPECIFICATIONS.
 FIELD VERIFY THE DIMENSIONS FOR THE EXISTING BOXES.

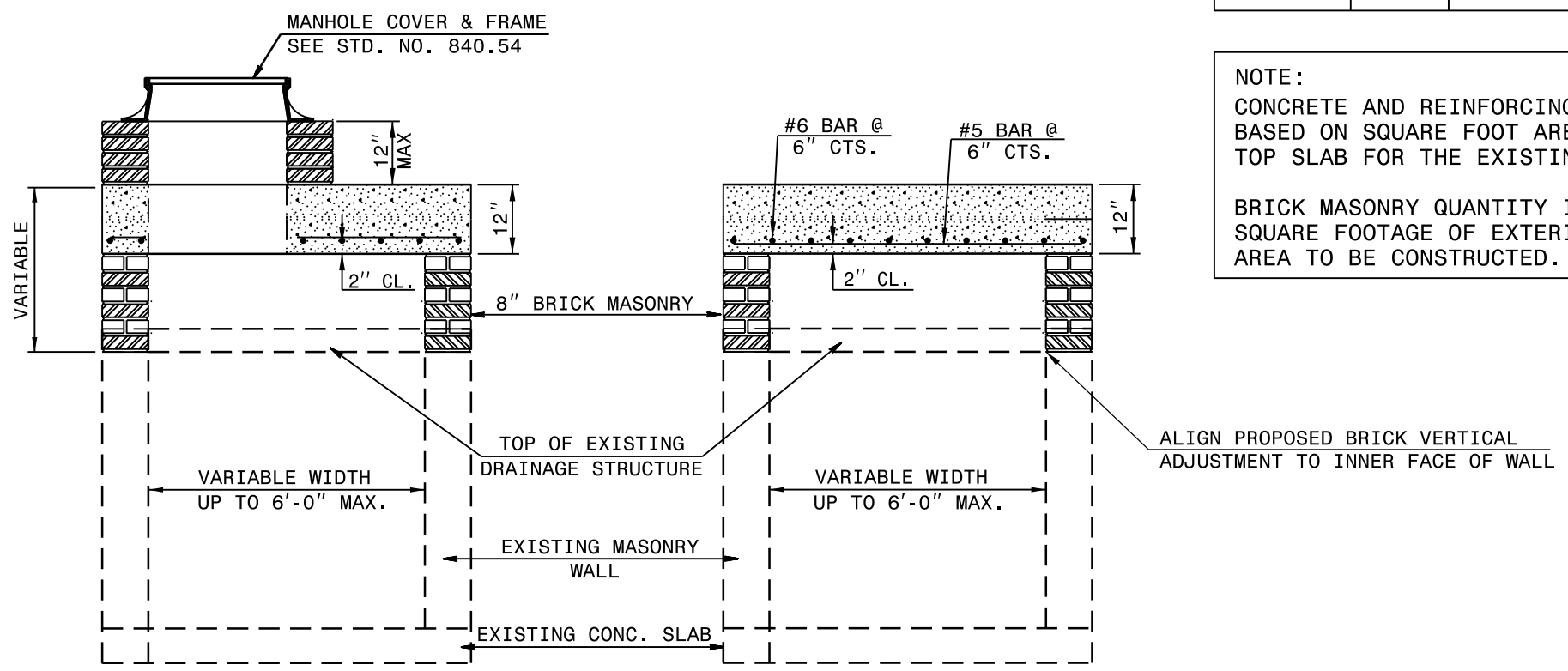
BILL OF MATERIALS

MASONRY			
TOP SLAB CONCRETE CLASS "A"	.037YDS ³ PER FT ²		
BRICK MASONRY	.025YDS ³ PER FT ²		
REINFORCING STEEL	7.64LBS PER FT ²		
MANHOLE OPTION QUANTITIES			
SIZE	QTY.	LENGTH	REINF. STEEL LBS.
#5 DIAG.	8	1'-1"	9.04

NOTE:
 CONCRETE AND REINFORCING STEEL QUANTITIES BASED ON SQUARE FOOT AREA OF THE PROPOSED TOP SLAB FOR THE EXISTING DRAINAGE STRUCTURE.
 BRICK MASONRY QUANTITY IS BASED ON THE TOTAL SQUARE FOOTAGE OF EXTERIOR WALL SURFACE AREA TO BE CONSTRUCTED.



DETAIL OF HANDLE



SECTION X-X

SECTION Y-Y

ALIGN PROPOSED BRICK VERTICAL ADJUSTMENT TO INNER FACE OF WALL

CONTRACT STANDARDS AND DEVELOPMENT UNIT
 Office 919-707-6950 FAX 919-250-4119

DETAIL TO CONVERT EXISTING DROP INLET OR CATCH BASIN TO TRAFFIC BEARING JUNCTION BOX (MANHOLE OPTIONAL)

ORIGINAL BY: T.S.S. DATE: FEB 2000
 MODIFIED BY: E.F.W. DATE: NOV 2001
 CHECKED BY: DATE:
 FILE SPEC.: w:\erfcowad\usr\details\stand\boxtohibe.dgn

SYTIME\$\$\$\$\$CONJ\$\$\$\$\$DUSERNAME\$\$\$\$\$