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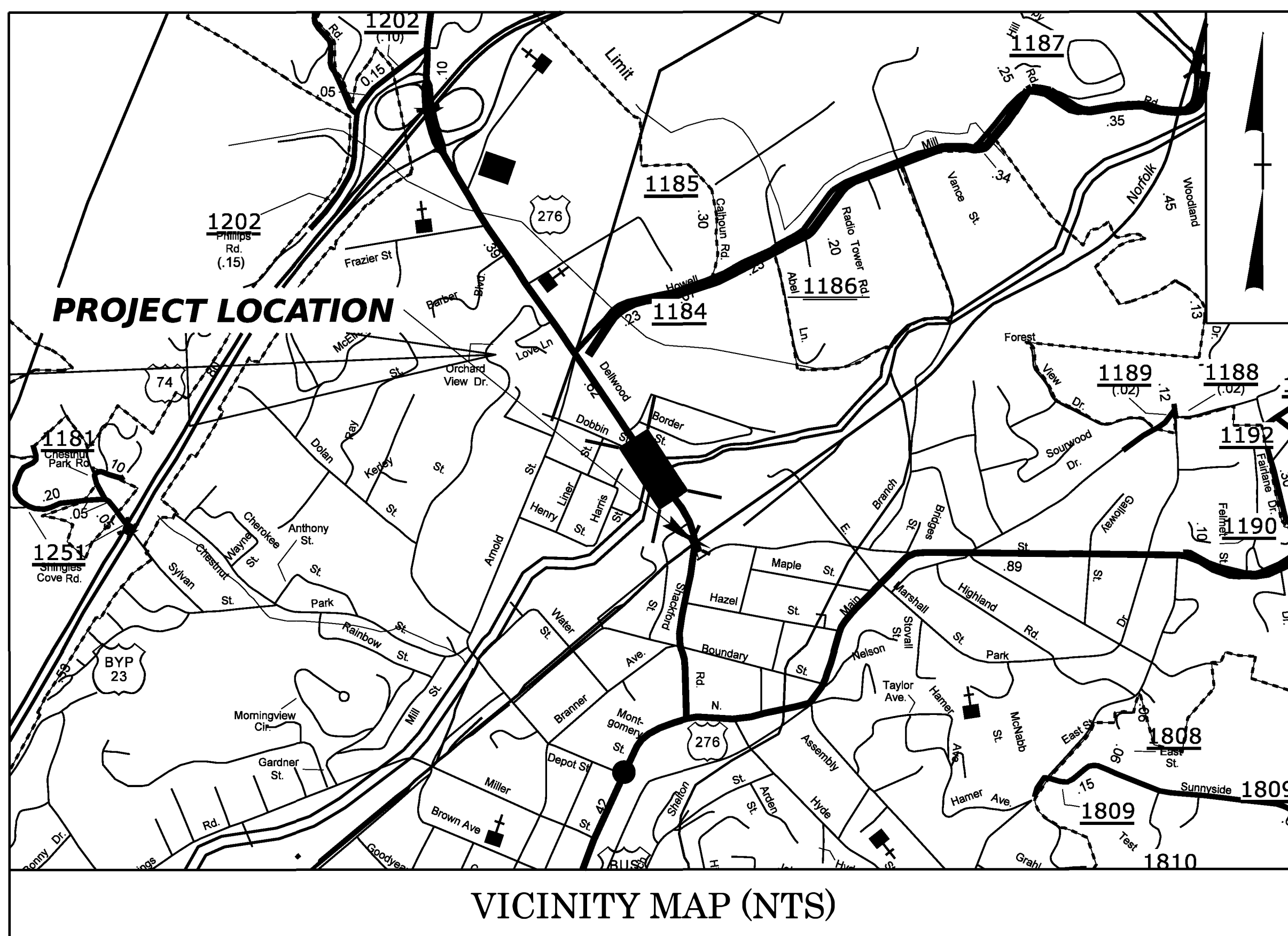
STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

HAYWOOD COUNTY

LOCATION: *US-276 (RUSS AVENUE)
OVER RAILROAD*

TYPE OF WORK: *FENCING*

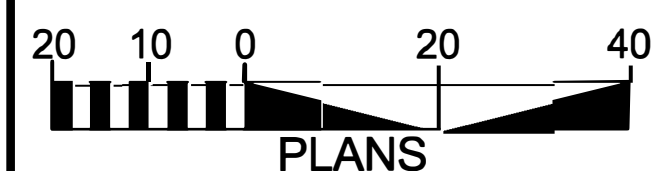
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	50615	1	7
STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION	
50615	N/A	CONSTRUCTION	



DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

CONTRACT: DN01035

GRAPHIC SCALES



PROJECT LENGTH

0.01 MILES

Prepared in the Office of:
DIVISION OF HIGHWAYS
253 WEBSTER RD., SYLVA NC, 28779

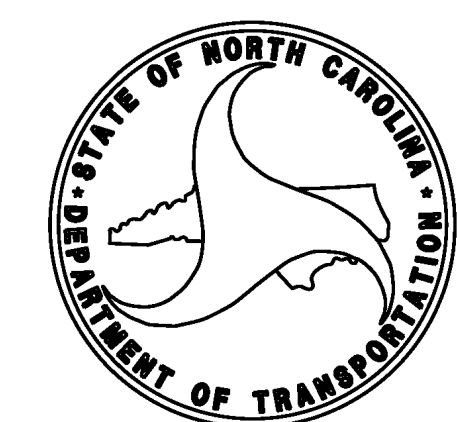
2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
N/A

WESLEY JAMISON, P.E.
PROJECT ENGINEER

LETTING DATE:
AUGUST 22, 2023

GARRETT B. HIGDON, E.I.
PROJECT DESIGN ENGINEER



INDEX OF SHEETS

SHEET NUMBER	SHEET
1	TITLE SHEET
1A	INDEX OF SHEETS, GENERAL NOTES, AND STANDARD DRAWINGS
1B	CONVENTIONAL SYMBOLS
2C - 1 THRU 2C - 3	DETAIL SHEETS
4	PLAN SHEET

2018 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, 2018 are applicable to this project and by reference hereby are considered a part of these plans:

STD.NO.	TITLE
DIVISION 11 - WORK ZONE TRAFFIC CONTROL	
1101.01	Work Zone Advance Warning Signs
1101.02	Temporary Lane Closures
1101.04	Temporary Shoulder Closures

STATE OF NORTH CAROLINA, DIVISION OF HIGHWAYS CONVENTIONAL PLAN SHEET SYMBOLS

Note: Not to Scale

BOUNDARIES AND PROPERTY:

State Line	-----
County Line	-----
Township Line	-----
City Line	-----
Reservation Line	-----
Property Line	-----
Existing Iron Pin (EIP)	----- X
Computed Property Corner	----- X
Existing Concrete Monument (ECM)	----- [ECM]
Parcel / Sequence Number	----- (23)
Existing Fence Line	----- x-x-x-x
Proposed Woven Wire Fence	----- o
Proposed Chain Link Fence	----- []
Proposed Barbed Wire Fence	----- \diamond
Existing Wetland Boundary	----- -w-l-w-
Proposed Wetland Boundary	----- -w-l-w-
Existing Endangered Animal Boundary	----- -eab-
Existing Endangered Plant Boundary	----- -epb-
Existing Historic Property Boundary	----- -hpb-
Known Contamination Area: Soil	----- -s-s-
Potential Contamination Area: Soil	----- -s-s-
Known Contamination Area: Water	----- -w-w-
Potential Contamination Area: Water	----- -w-w-
Contaminated Site: Known or Potential	----- [Skull & Crossbones]

BUILDINGS AND OTHER CULTURE:

Gas Pump Vent or U/G Tank Cap	----- o
Sign	----- []
Well	----- []
Small Mine	----- X
Foundation	----- []
Area Outline	----- []
Cemetery	----- []
Building	----- []
School	----- []
Church	----- []
Dam	----- []

HYDROLOGY:

Stream or Body of Water	-----
Hydro, Pool or Reservoir	----- []
Jurisdictional Stream	----- JS
Buffer Zone 1	----- BZ 1
Buffer Zone 2	----- BZ 2
Flow Arrow	----- \leftarrow
Disappearing Stream	----- \rightarrow
Spring	----- []
Wetland	----- []
Proposed Lateral, Tail, Head Ditch	----- []
False Sump	----- []

RAILROADS:

Standard Gauge	----- [CSX TRANSPORTATION]
RR Signal Milepost	----- [MILEPOST 35]
Switch	----- [SWITCH]
RR Abandoned	-----
RR Dismantled	-----

RIGHT OF WAY & PROJECT CONTROL:

Primary Horiz Control Point	----- []
Primary Horiz and Vert Control Point	----- []
Secondary Horiz and Vert Control Point	----- []
Vertical Benchmark	----- []
Existing Right of Way Monument	----- []
Proposed Right of Way Monument (Rebar and Cap)	----- []
Proposed Right of Way Monument (Concrete)	----- []
Existing Permanent Easement Monument	----- []
Proposed Permanent Easement Monument (Rebar and Cap)	----- []
Existing C/A Monument	----- []
Proposed C/A Monument (Rebar and Cap)	----- []
Proposed C/A Monument (Concrete)	----- []
Existing Right of Way Line	----- []
Proposed Right of Way Line	----- []
Existing Control of Access Line	----- []
Proposed Control of Access Line	----- []
Proposed ROW and CA Line	----- []
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

ROADS AND RELATED FEATURES:

Existing Edge of Pavement	-----
Existing Curb	-----
Proposed Slope Stakes Cut	----- C
Proposed Slope Stakes Fill	----- F
Proposed Curb Ramp	----- [CR]
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	----- [Vineyard]

EXISTING STRUCTURES:

MAJOR:	
Bridge, Tunnel or Box Culvert	----- [CONC]
Bridge Wing Wall, Head Wall and End Wall	----- [CONC WW]
MINOR:	
Head and End Wall	----- [CONC HW]
Pipe Culvert	----- []
Footbridge	----- []
Drainage Box: Catch Basin, DI or JB	----- [CB]
Paved Ditch Gutter	----- []
Storm Sewer Manhole	----- []
Storm Sewer	----- S

UTILITIES:

* SUE - Subsurface Utility Engineering
LOS - Level of Service - A,B,C or D (Accuracy)

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	----- []
U/G Power Line Test Hole (SUE - LOS A)*	----- []
U/G Power Line (SUE - LOS B)*	----- P
U/G Power Line (SUE - LOS C)*	----- P
U/G Power Line (SUE - LOS D)*	----- P

TELEPHONE:

Existing Telephone Pole	----- []
Proposed Telephone Pole	----- []
Telephone Manhole	----- []
Telephone Pedestal	----- []
Telephone Cell Tower	----- []
U/G Telephone Cable Hand Hole	----- []
U/G Telephone Test Hole (SUE - LOS A)*	----- []
U/G Telephone Cable (SUE - LOS B)*	----- T
U/G Telephone Cable (SUE - LOS C)*	----- T
U/G Telephone Cable (SUE - LOS D)*	----- T
U/G Telephone Conduit (SUE - LOS B)*	----- TC
U/G Telephone Conduit (SUE - LOS C)*	----- TC
U/G Telephone Conduit (SUE - LOS D)*	----- TC
U/G Fiber Optics Cable (SUE - LOS B)*	----- T FO
U/G Fiber Optics Cable (SUE - LOS C)*	----- T FO
U/G Fiber Optics Cable (SUE - LOS D)*	----- T FO

WATER:	
Water Manhole	----- []
Water Meter	----- []
Water Valve	----- []
Water Hydrant	----- []
U/G Water Line Test Hole (SUE - LOS A)*	----- []
U/G Water Line (SUE - LOS B)*	----- W
U/G Water Line (SUE - LOS C)*	----- W
U/G Water Line (SUE - LOS D)*	----- W
Above Ground Water Line	----- A/G Water
TV:	
TV Pedestal	----- []
TV Tower	----- []
U/G TV Cable Hand Hole	----- []
U/G TV Test Hole (SUE - LOS A)*	----- []
U/G TV Cable (SUE - LOS B)*	----- TV
U/G TV Cable (SUE - LOS C)*	----- TV
U/G TV Cable (SUE - LOS D)*	----- TV
U/G Fiber Optic Cable (SUE - LOS B)*	----- TV FO
U/G Fiber Optic Cable (SUE - LOS C)*	----- TV FO
U/G Fiber Optic Cable (SUE - LOS D)*	----- TV FO
GAS:	
Gas Valve	----- []
Gas Meter	----- []
U/G Gas Line Test Hole (SUE - LOS A)*	----- []
U/G Gas Line (SUE - LOS B)*	----- G
U/G Gas Line (SUE - LOS C)*	----- G
U/G Gas Line (SUE - LOS D)*	----- G
Above Ground Gas Line	----- A/G Gas
SANITARY SEWER:	
Sanitary Sewer Manhole	----- []
Sanitary Sewer Cleanout	----- []
U/G Sanitary Sewer Line	----- SS
Above Ground Sanitary Sewer	----- A/G Sanitary Sewer
SS Force Main Line Test Hole (SUE - LOS A)*	----- []
SS Force Main Line (SUE - LOS B)*	----- FSS
SS Force Main Line (SUE - LOS C)*	----- FSS
SS Force Main Line (SUE - LOS D)*	----- FSS
MISCELLANEOUS:	
Utility Pole	----- []
Utility Pole with Base	----- []
Utility Located Object	----- []
Utility Traffic Signal Box	----- []
Utility Unknown U/G Line (SUE - LOS B)*	----- UTL
U/G Tank; Water, Gas, Oil	----- []
Underground Storage Tank, Approx. Loc.	----- [UST]
A/G Tank; Water, Gas, Oil	----- []
Geoenvironmental Boring	----- []
Abandoned According to Utility Records	----- []
End of Information	----- []

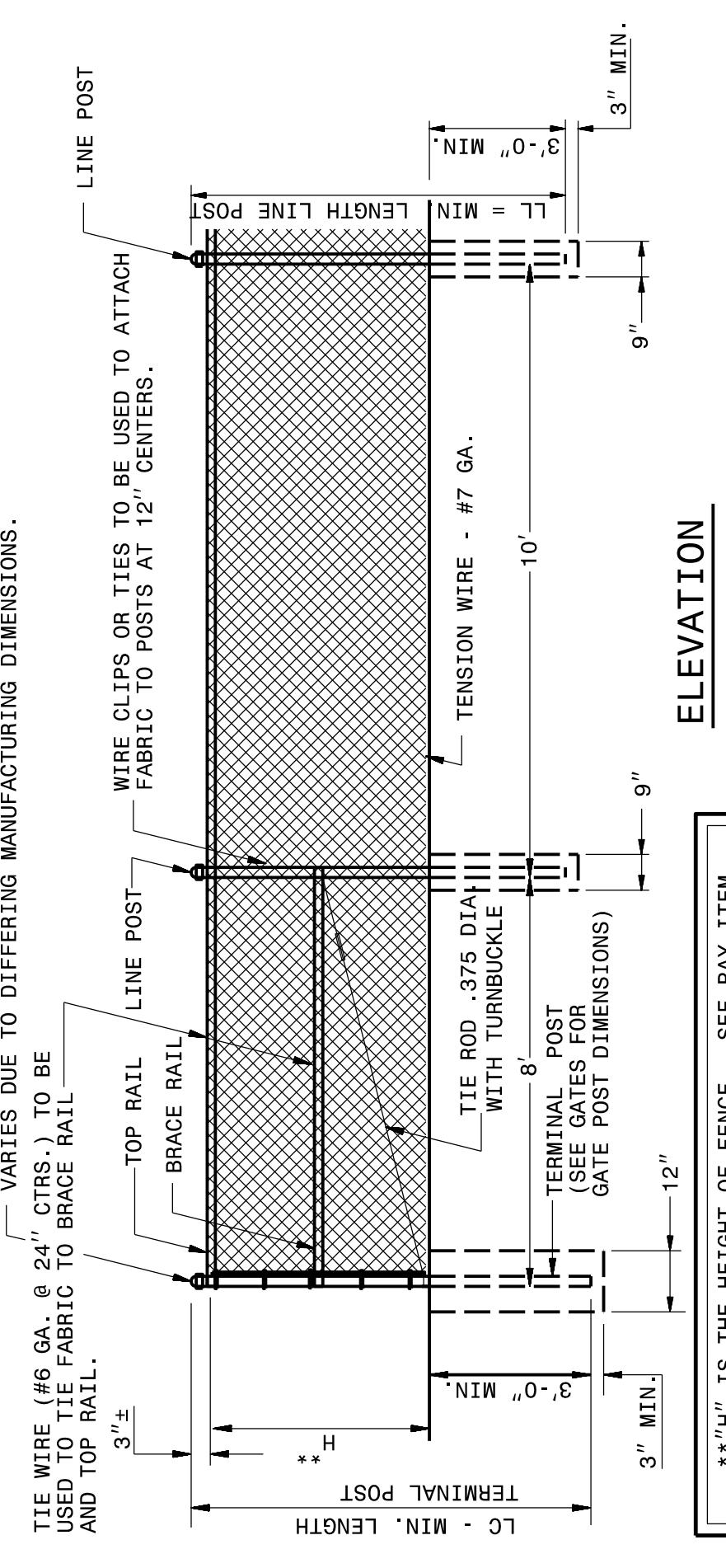
AATUR
E.O.I.

STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

ENGLISH DETAIL DRAWING FOR CHAIN LINK FENCE FOR 7' OR 8' HEIGHT

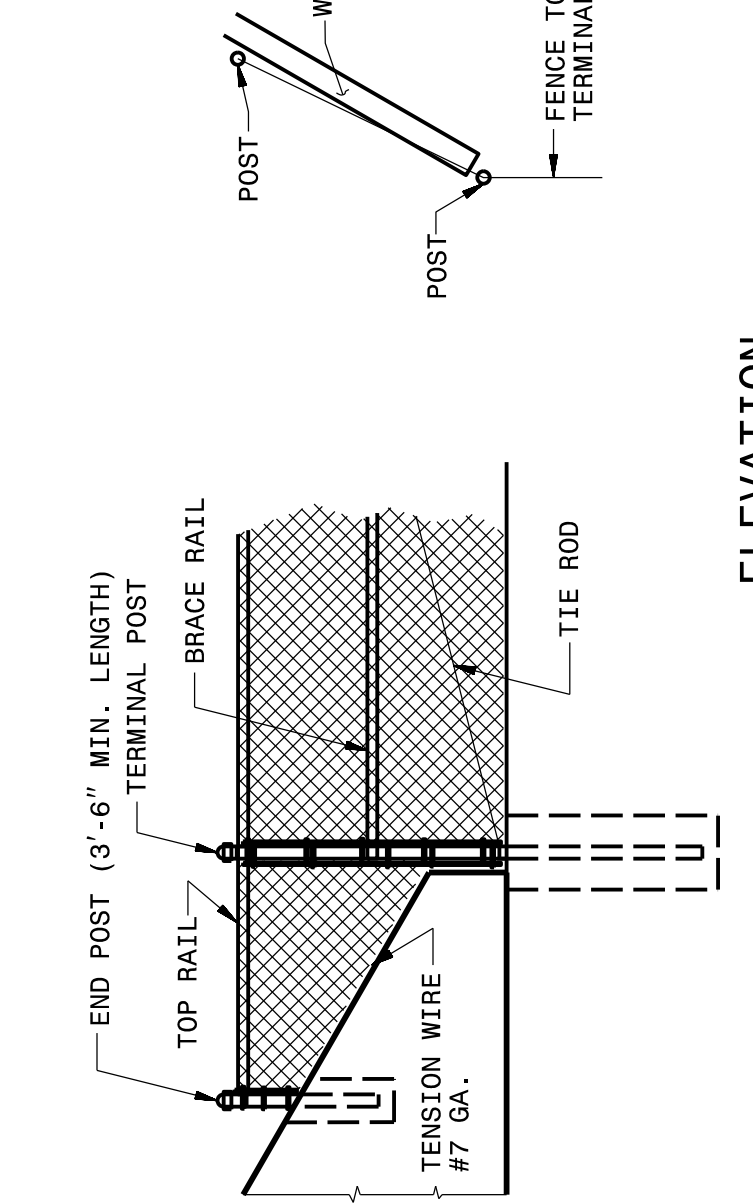
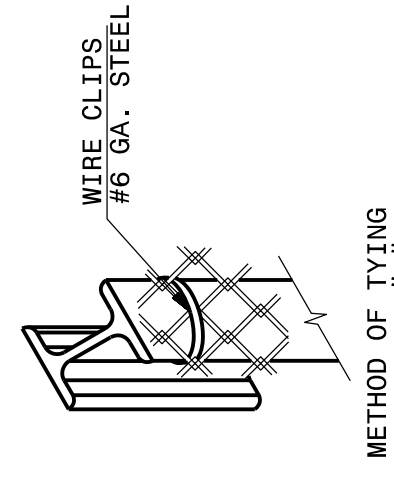
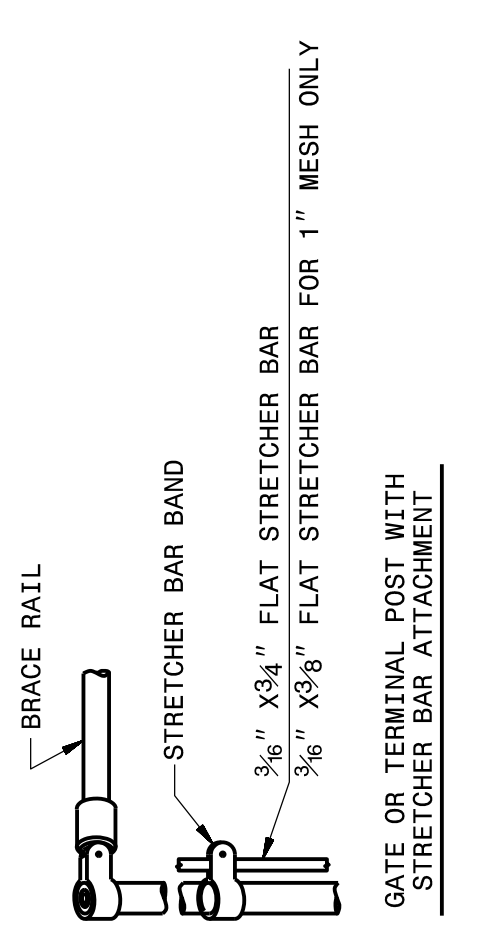
SHEET 1 OF 3 866D01

STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C. ENGLISH DETAIL DRAWING FOR CHAIN LINK FENCE FOR 7' OR 8' HEIGHT SHEET 1 OF 3 866D01



ELEVATION

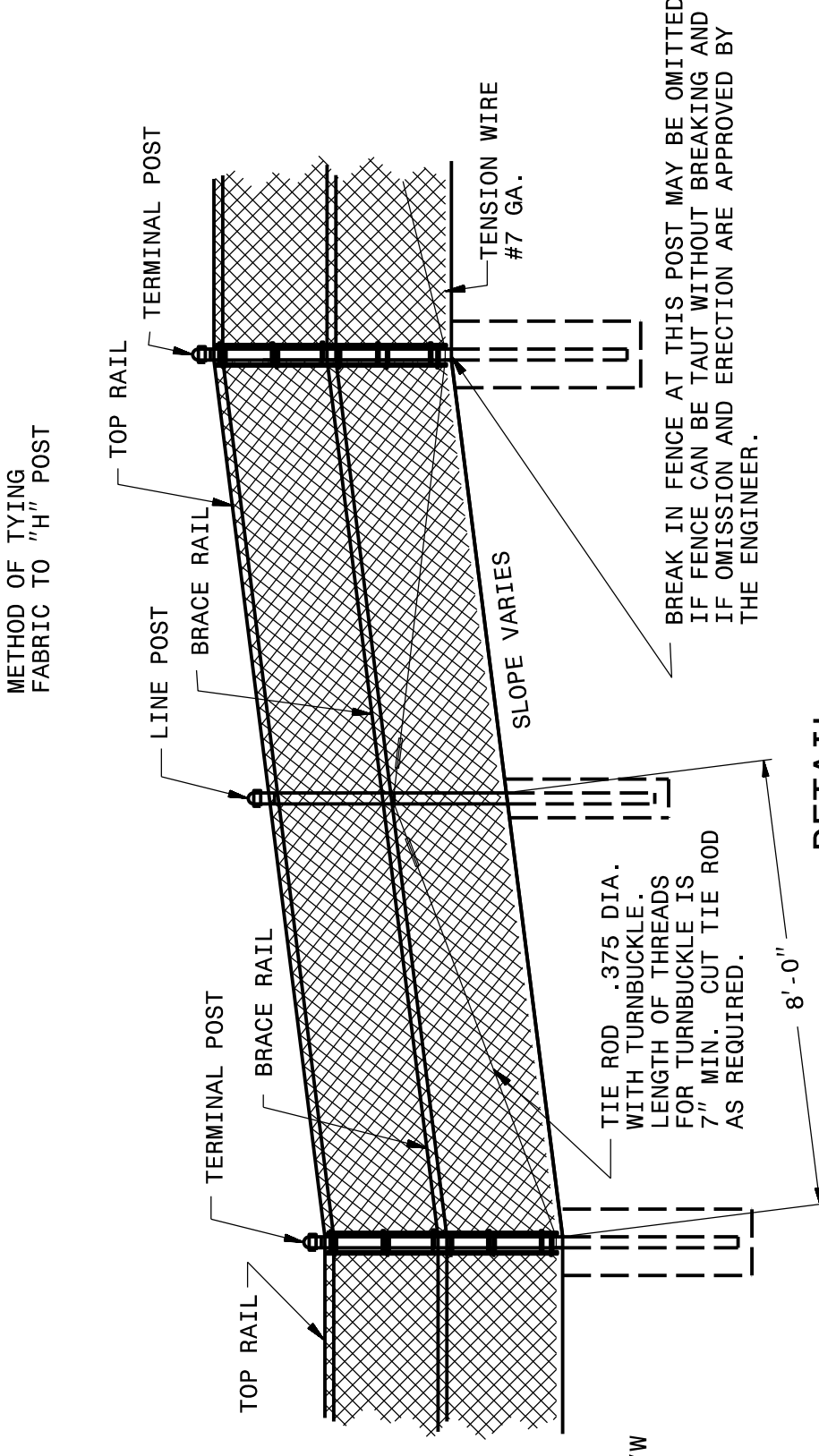
VARIES DUE TO DIFFERING MANUFACTURING DIMENSIONS. TIE WIRE (#6 GA. @ 24" CTRS.) TO BE USED TO TIE FABRIC TO BRACE RAIL AND TOP RAIL. ... **"H" IS THE HEIGHT OF FENCE. SEE PAY ITEM DESCRIPTION FOR REQ'D HEIGHT FOR PROJECT.



ELEVATION

METHOD OF TYING FENCE TO ENDWALL

NOTES: CAPS ARE NOT REQUIRED ON "H" POST OR ROLL FORMED POST. FENCE FABRIC SHALL BE INSTALLED ON THE SIDE FARTHEST FROM THE HIGHWAY EXCEPT THAT ON HORIZONTAL CURVES GREATER THAN THREE DEGREES THE FENCE SHALL BE INSTALLED SO AS TO PULL AGAINST LINE POST. ... METHOD OF CONSTRUCTING FENCE ON SHARP BREAK IN GRADE



DETAIL

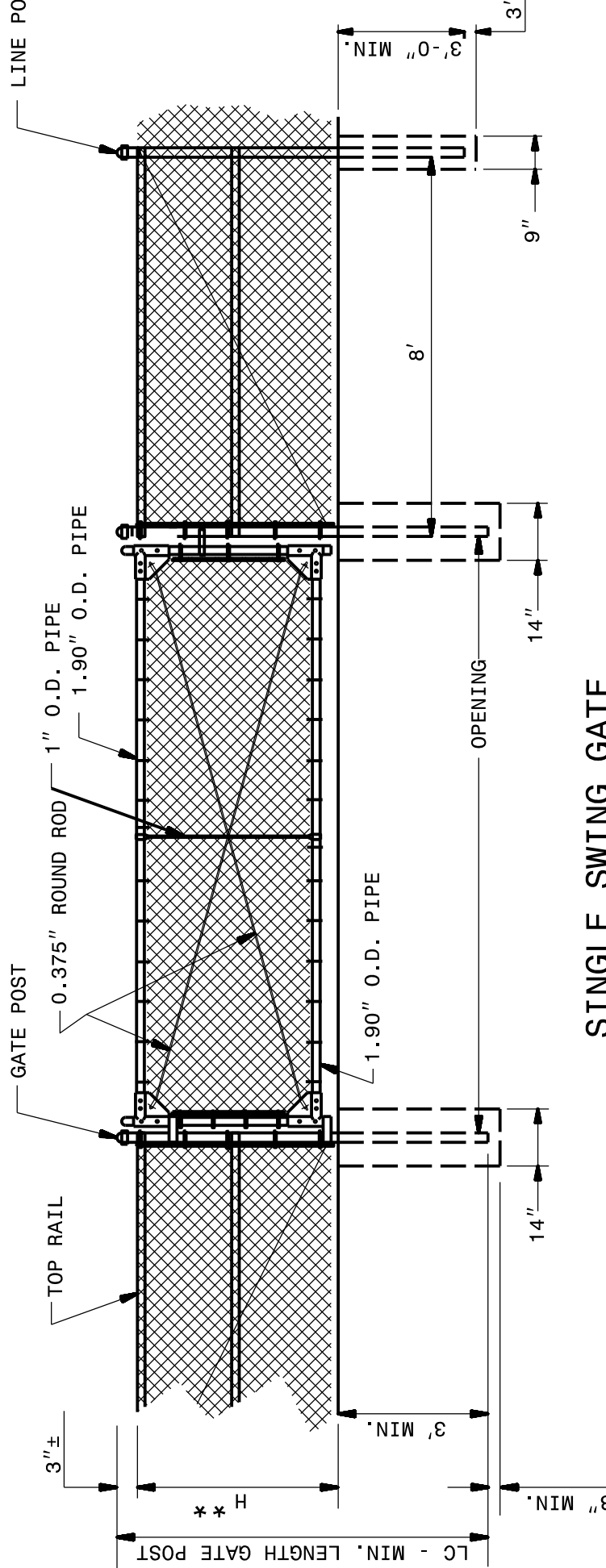
METHOD OF CONSTRUCTING FENCE ON SHARP BREAK IN GRADE

STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

ENGLISH DETAIL DRAWING FOR CHAIN LINK FENCE FOR 7' OR 8' HEIGHT

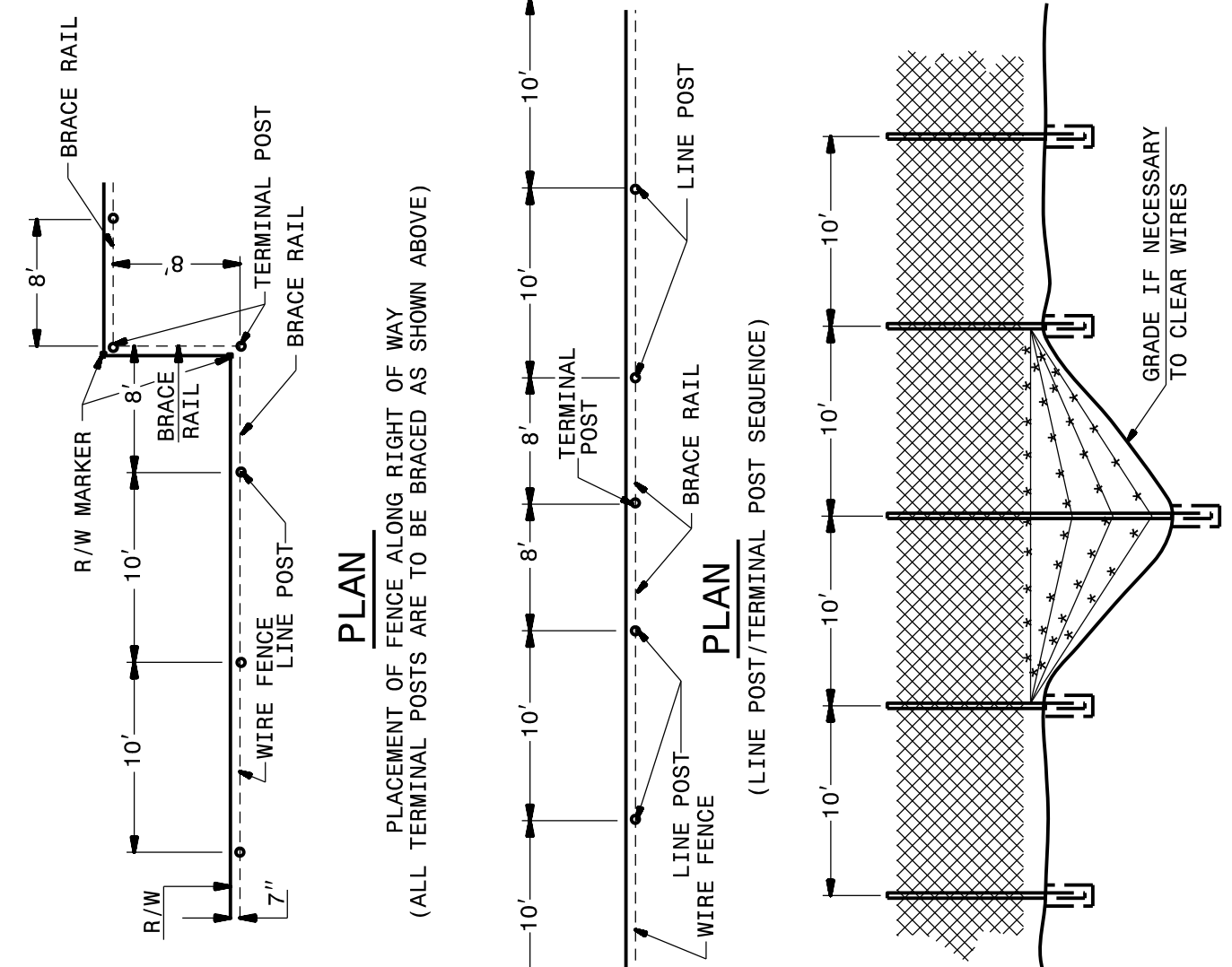
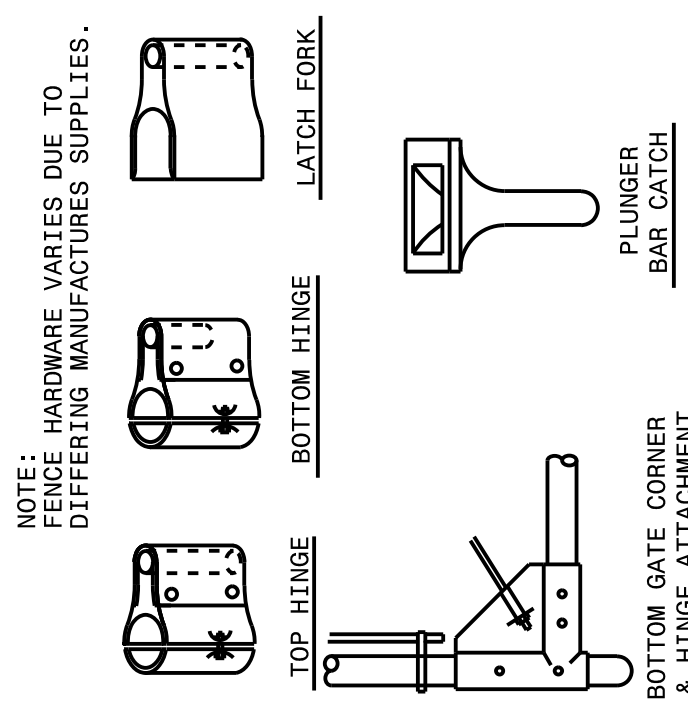
SHEET 2 OF 3 866D01

STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C. ENGLISH DETAIL DRAWING FOR CHAIN LINK FENCE FOR 7' OR 8' HEIGHT SHEET 2 OF 3 866D01



SINGLE SWING GATE

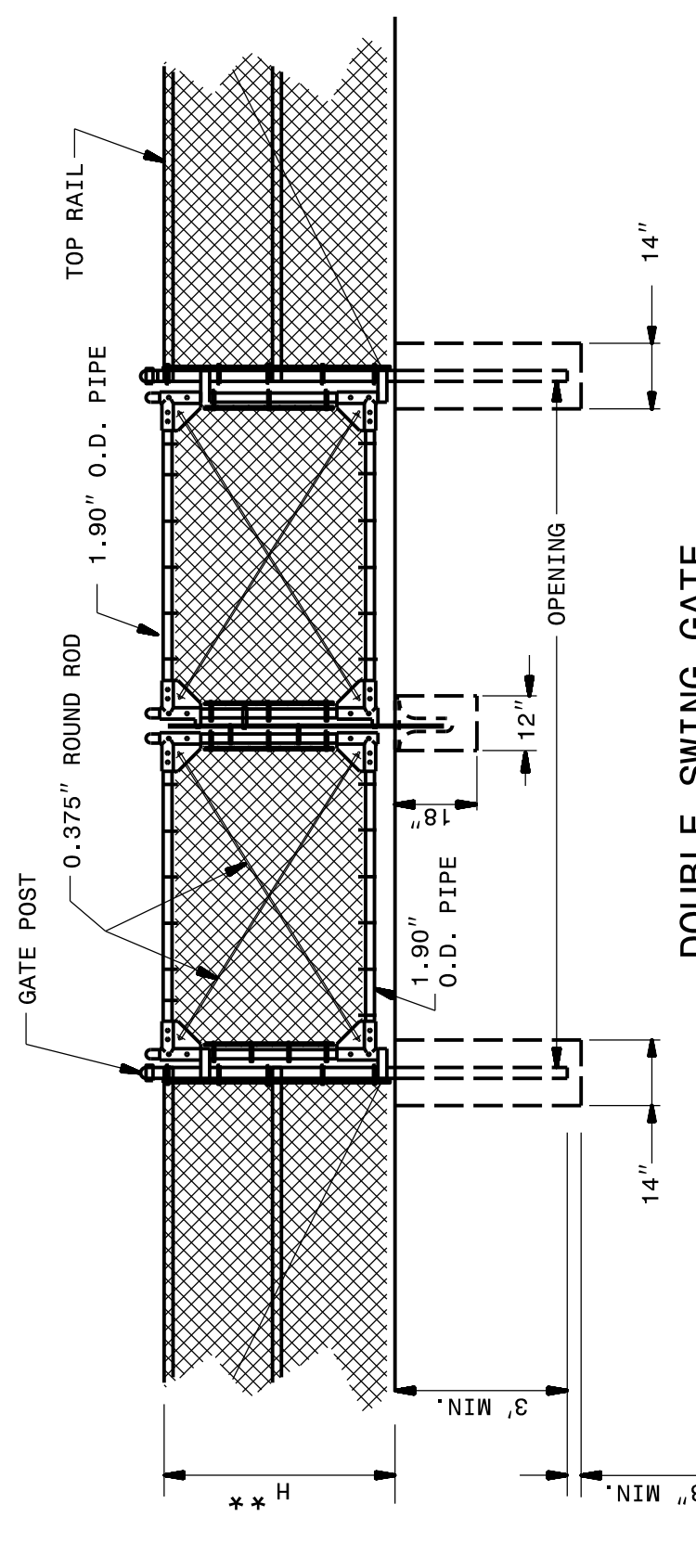
**"H" IS THE HEIGHT OF FENCE. SEE PAY ITEM DESCRIPTION FOR REQ'D HEIGHT FOR PROJECT. NOTE: ROLL FORMED LINE POST MAY BE DRIVEN TO A MINIMUM OF 3'-0" IN LIEU OF CONCRETE ANCHOR, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.



PLAN

DETAIL OF DITCH CROSSING

DOUBLE SWING GATE



TO BE USED WHERE SWINGING CLEARANCE IS LIMITED. MAXIMUM WIRE SPACING TO BE 6". MAXIMUM CLEARANCE BETWEEN LOWEST STRAND AND GROUND TO BE 6". ... ADDITIONAL TERMINAL POSTS SHALL BE BRACED FROM BOTH SIDES OF POST.



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

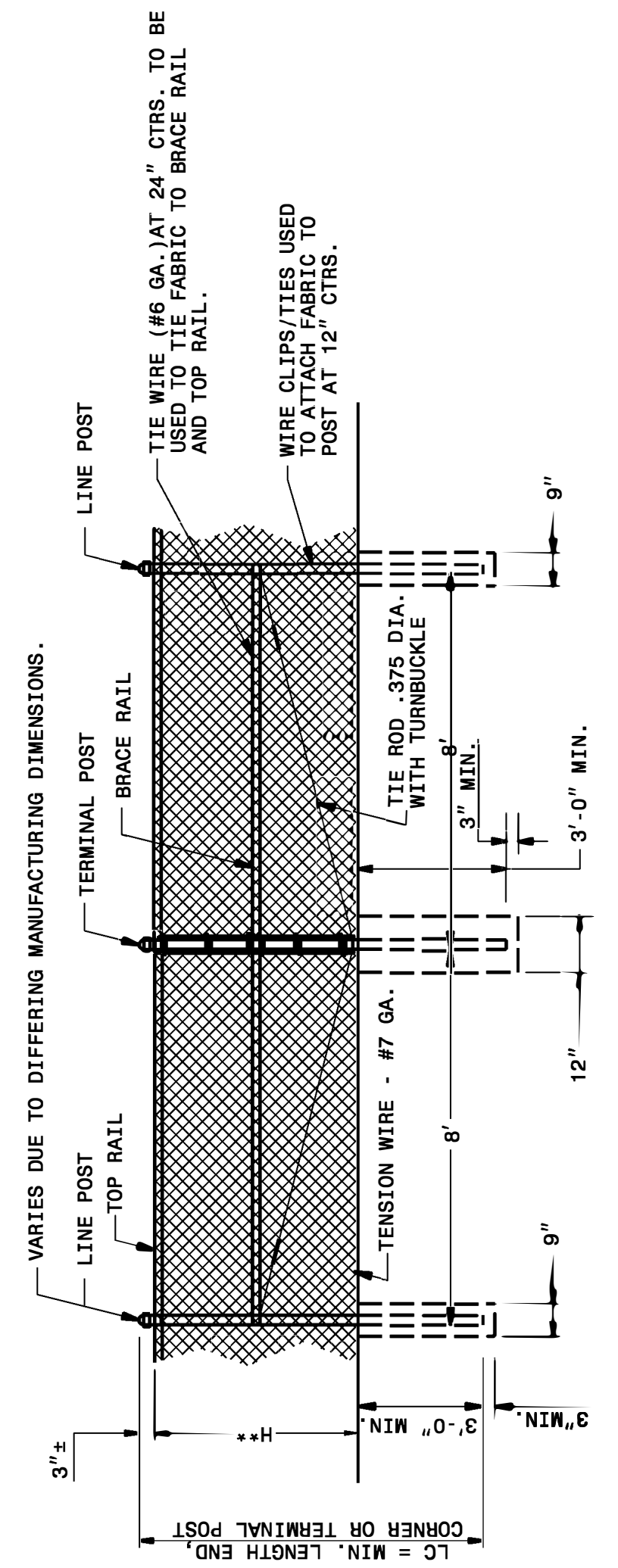
SEE PLATE FOR TITLE

Table with 2 columns: Field (ORIGINAL BY, MODIFIED BY, CHECKED BY, FILE SPEC.) and Value (DATE, rnbritt, DATE, details/nbritt/english/misc/fencechainlink.dgn)

STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

ENGLISH DETAIL DRAWING FOR CHAIN LINK FENCE 7' OR 8' HEIGHT

SHEET 3 OF 3 866D01



LINE BRACE DETAIL

** "H" IS THE HEIGHT OF FENCE. SEE PAY ITEM DESCRIPTION FOR REQ'D HEIGHT FOR PROJECT.

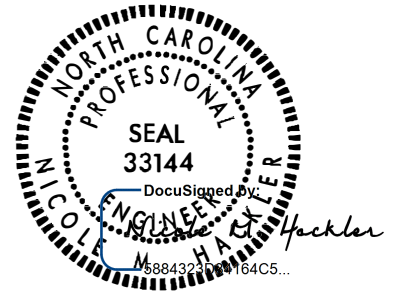
ALLOWABLE COMPONENTS FOR FENCE SYSTEMS

FABRIC FRAME COMPONENTS SYSTEM	GALV. STEEL OR ALUMINUM COATED STEEL	
	G1	G2
LINE POST	3.500" O.D. STEEL PIPE	3.000" O.D. STEEL PIPE
TERMINAL POST (CORNER, BRACES)	3.000" O.D. STEEL PIPE	3.000" O.D. STEEL PIPE
GATE POST UP THRU 6' LEAF	3.000" O.D. STEEL PIPE	3.000" O.D. STEEL PIPE
GATE POST 7' THRU 12' LEAF	4.000" O.D. STEEL PIPE	4.000" O.D. STEEL PIPE
BRACE RAIL & TOP RAIL	1.680" O.D. STEEL PIPE	1.680" O.D. STEEL PIPE

STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

ENGLISH DETAIL DRAWING FOR CHAIN LINK FENCE 7' OR 8' HEIGHT

SHEET 3 OF 3 866D01



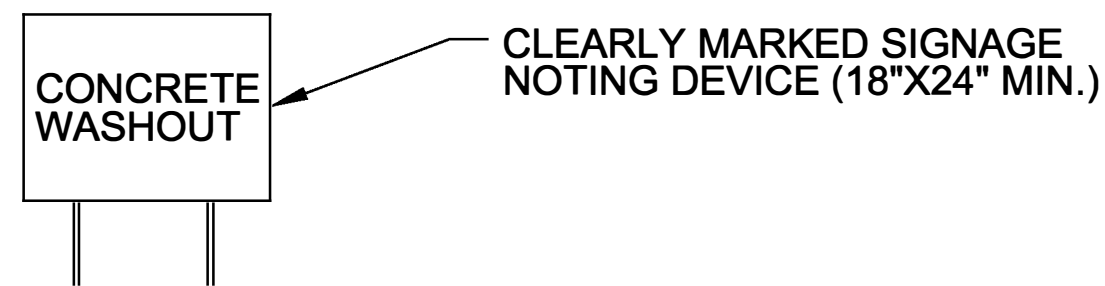
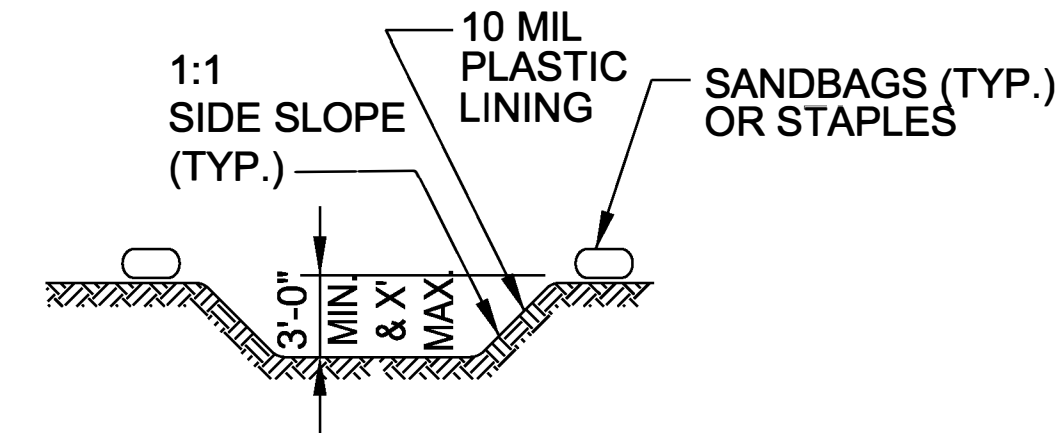
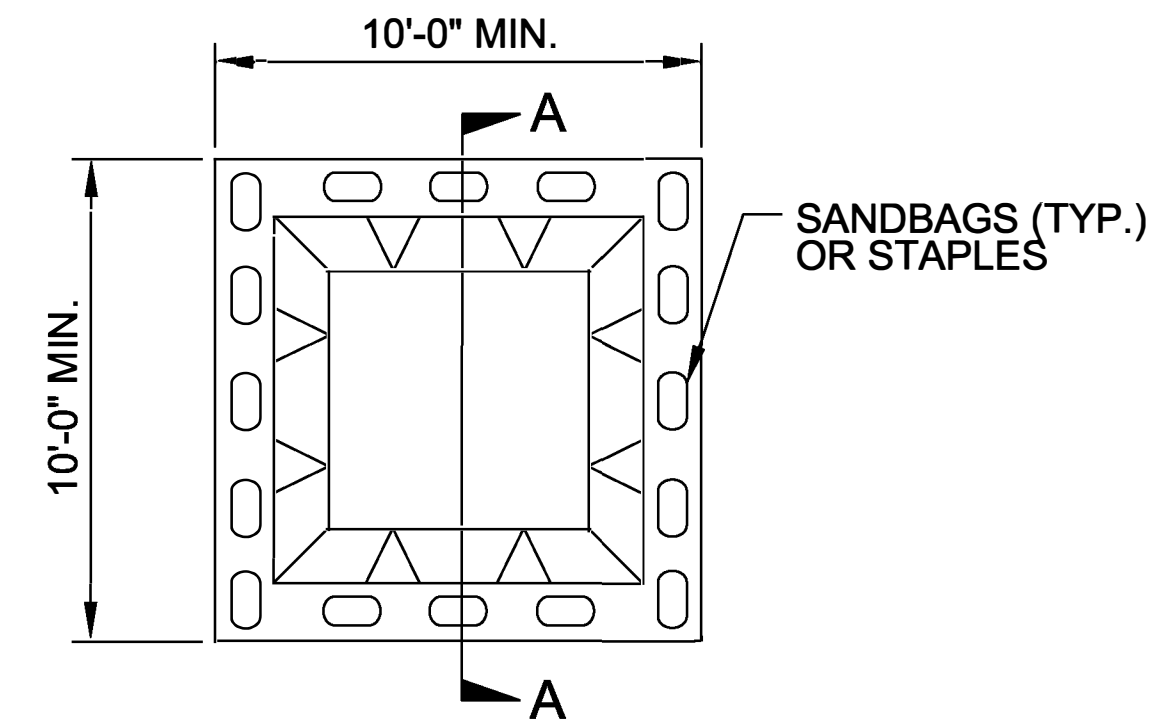
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Office 919-707-6950 FAX 919-250-4119

SEE PLATE FOR TITLE

ORIGINAL BY: _____ DATE: _____
 MODIFIED BY: rnbritt DATE: 12-06-04
 CHECKED BY: _____ DATE: _____
 FILE SPEC.: details/nbritt/english/misc/fencechainlink.dgn

PROJECT REFERENCE NO.	SHEET NO.
50615	2C-3
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

ONSITE CONCRETE WASHOUT STRUCTURE WITH LINER



SECTION A-A

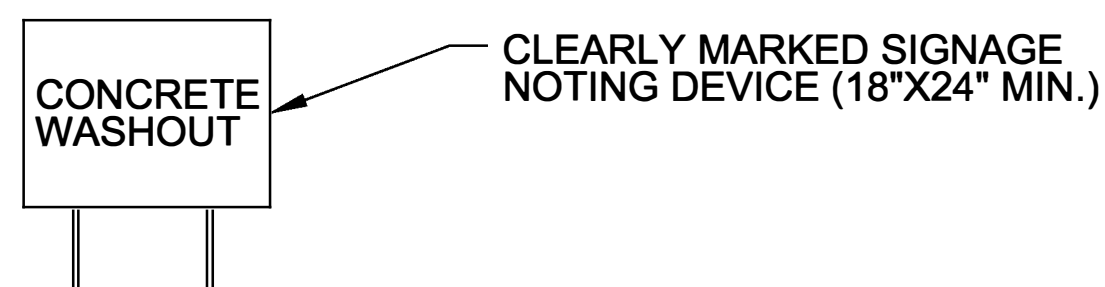
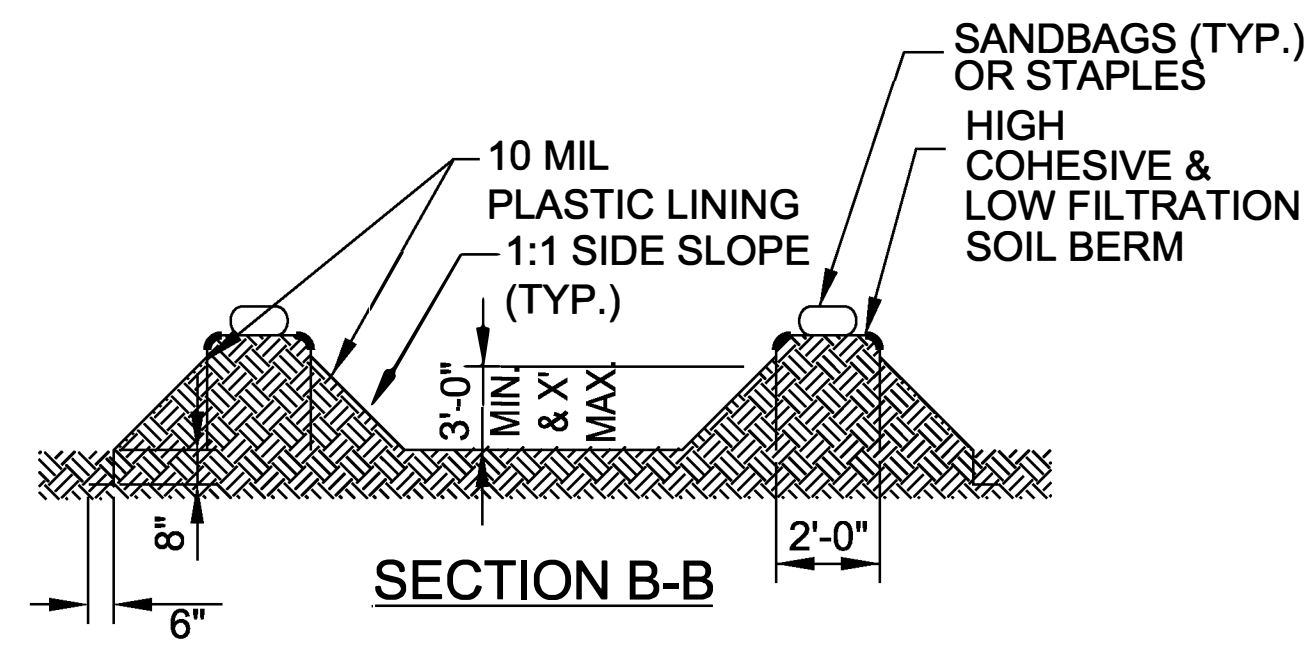
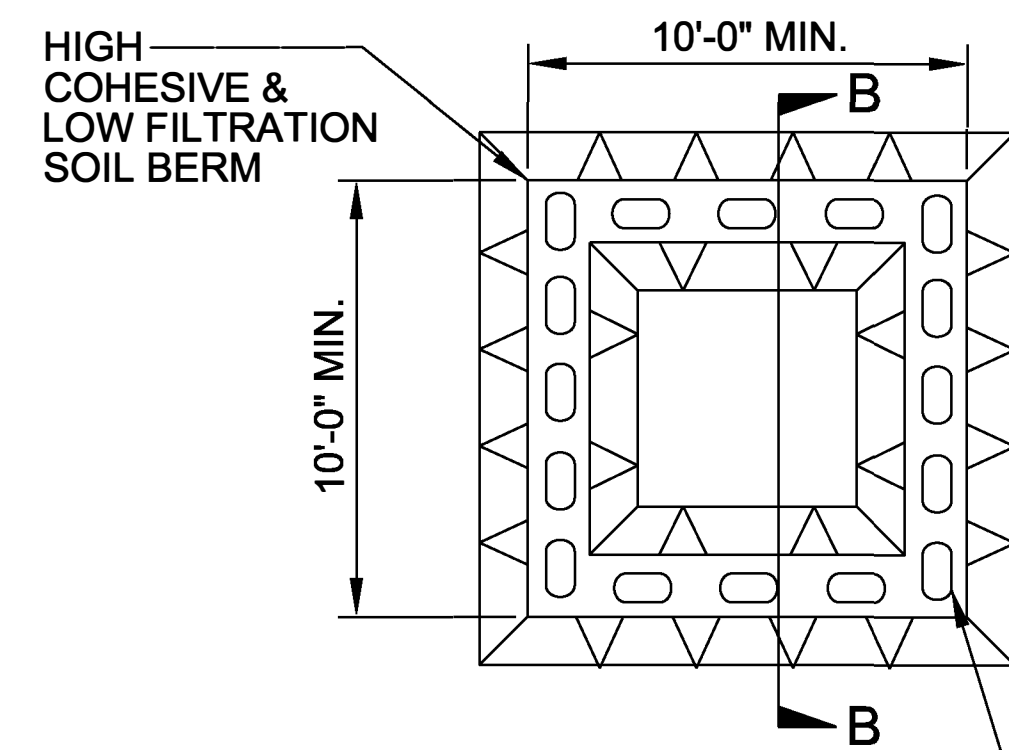
NOTES:

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

PLAN

BELOW GRADE WASHOUT STRUCTURE

NOT TO SCALE



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 CLEARLY MARKED WITH SIGNAGE NOTING DEVICE.

PLAN

ABOVE GRADE WASHOUT STRUCTURE

NOT TO SCALE

