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D.O.T. STANDARDS

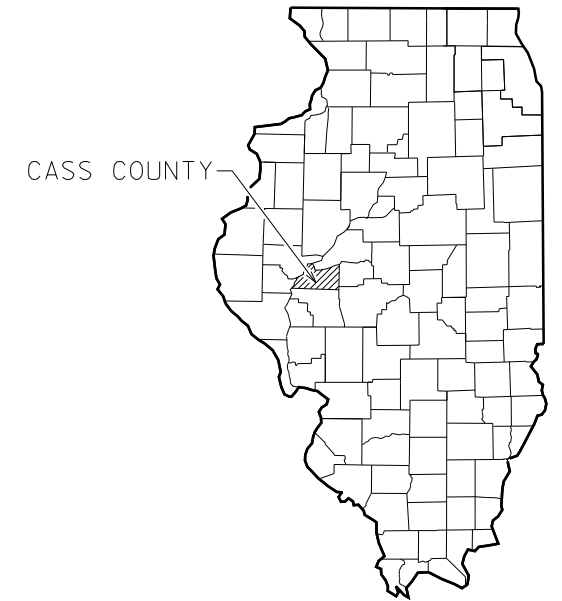
000001 Standard Symbols, Abbreviations, and Patterns
 280001 Temporary Erosion Control Systems
 442201 Class C And D Patches
 515001 Name Plate For Bridges
 542301 Precast Reinforced Concrete Flared End Section
 601101 Concrete Headwall For Pipe Drain
 666001 Right Of Way Markers
 701001 Off-Rd Operations 2L, 2W, More Than 15' (4.5 m) Away
 701006 Off-Rd Operations 2L, 2W, 15' (4.5 M) To 24" (600 mm) to Pavement Edge
 701901 Traffic Control Devices
 B.L.R. 21-5 Typical Application Of Traffic Control Devices
 For Construction On Rural Local Highways
 701201 Lane Closure 2L, 2W Day Only Speeds ≥ 45 MPH
 701311 Lane Closure 2L, 2W Moving Operations - Day Only

STATE OF ILLINOIS
DEPARTMENT OF NATURAL RESOURCES
OFFICE OF WATER RESOURCES

ASHLAND FLOOD CONTROL PROJECT
ASHLAND, ILLINOIS
CASS COUNTY

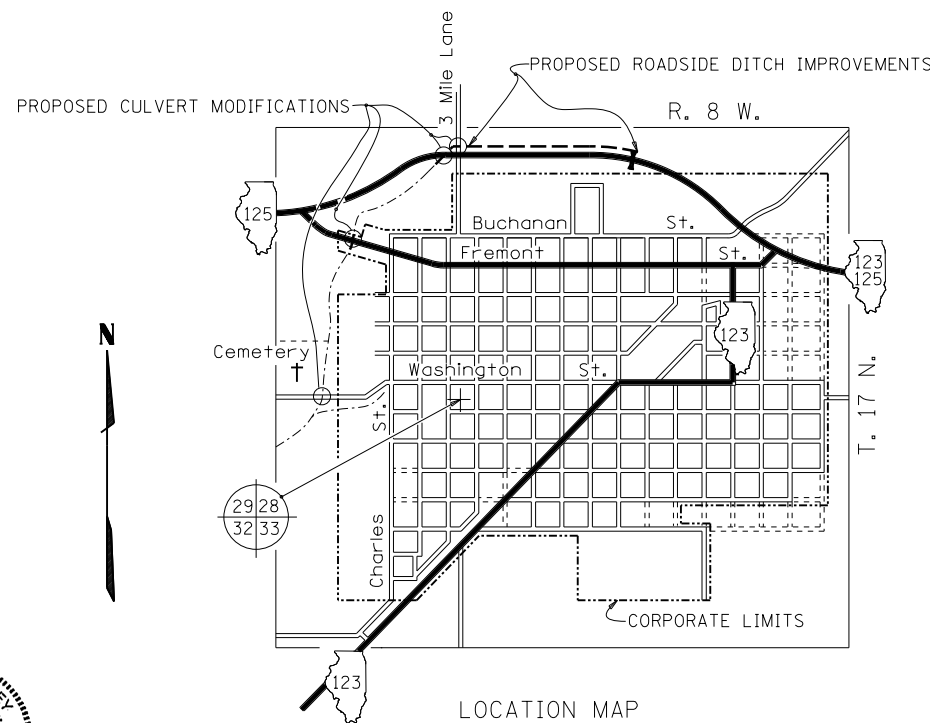
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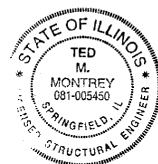
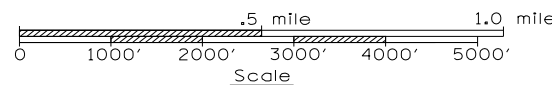


CASS COUNTY

REGIONAL MAP



LOCATION MAP



Ted Montrey 12/11/12

ILLINOIS LICENSED STRUCTURAL ENGINEER NO. 081-005450
 LICENSE EXPIRES 11-30-14



Ted Montrey 12/11/12

ILLINOIS REGISTERED PROFESSIONAL ENGINEER NO. 062-049591
 LICENSE EXPIRES 11-30-13

APPROVED BY *Chris R. [Signature]* DATE 12-13-12
 DIRECTOR

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	QUANTITY
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	24
20200100	EARTH EXCAVATION	CU YD	8,180
20300100	CHANNEL EXCAVATION	CU YD	140
21101625	TOPSOIL EXCAVATION AND PLACEMENT	CU YD	1,994
25100900	TURF REINFORCEMENT MAT	SQ YD	272
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	365
28000305	TEMPORARY DITCH CHECKS	FOOT	130
28000400	PERIMETER EROSION BARRIER	FOOT	113
28000500	INLET AND PIPE PROTECTION	EACH	1
28100105	STONE RIPRAP, CLASS A3	SQ YD	557
28100107	STONE RIPRAP, CLASS A4	SQ YD	471
28100109	STONE RIPRAP, CLASS A5	SQ YD	1,105
28200200	FILTER FABRIC	SQ YD	1,576
44000100	PAVEMENT REMOVAL	SQ YD	48
44201383	CLASS C PATCHES, TYPE IV, 12 INCH	SQ YD	199
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	50
*50100300	REMOVAL OF EXISTING STRUCTURES NO. 1	EACH	1
*50100400	REMOVAL OF EXISTING STRUCTURES NO. 2	EACH	1
*50100500	REMOVAL OF EXISTING STRUCTURES NO. 3	EACH	4
*50100600	REMOVAL OF EXISTING STRUCTURES NO. 4	EACH	1
50102400	CONCRETE REMOVAL	CU YD	5.2
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	2387
51100300	SLOPE WALL 6 INCH	SQ YD	120
51500100	NAME PLATES	EACH	1
54001001	BOX CULVERT END SECTIONS, CULVERT NO. 1	EACH	2
54001002	BOX CULVERT END SECTIONS, CULVERT NO. 2	EACH	4
54003000	CONCRETE BOX CULVERTS	CU YD	37.8
54010404	PRECAST CONCRETE BOX CULVERTS 4'x4'	FOOT	110.5
54010604	PRECAST CONCRETE BOX CULVERTS 6'x4'	FOOT	90
54021004	PRECAST CONCRETE BOX CULVERTS 10'x4'	FOOT	54
542D0213	PIPE CULVERTS, CLASS D, TYPE 1 8" (GALVANIZED AND COATED CMP)	FOOT	12
542D0215	PIPE CULVERTS, CLASS D, TYPE 1 10" (GALVANIZED AND COATED CMP)	FOOT	12
542A1081	PIPE CULVERTS, CLASS A (RCCP), TYPE 2, 36"	FOOT	90
542A1093	PIPE CULVERTS, CLASS A (RCCP), TYPE 2, 48"	FOOT	77
54213681	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 36"	EACH	4
66600105	FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS	EACH	4
*67000500	ENGINEER'S FIELD OFFICE, TYPE B	CAL MO	8
67100100	MOBILIZATION	L SUM	1
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	460
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	172
*	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1
*	NON-RESTRICTIVE FENCE	FOOT	44
*	SEEDING, MULCHING, AND FERTILIZING	ACRE	3.71
*	CONSTRUCTION STAKING	L SUM	1
59300100	CONTROLLED LOW-STRENGTH MATERIAL	CU YD	207
*	WOOD INFORMATION SIGNS	SQ FT	30

* INDICATES NON-STANDARD ITEM COVERED BY PLANS AND/OR SPECIAL PROVISION

GENERAL NOTES

- All elevations refer to N.G.V.D. (National Geodetic Vertical Datum).
- The Contractor shall furnish, erect, and when directed by the Engineer, completely remove two construction signs. The exact location of the signs shall be determined by the Engineer in the field.
- Reinforcement bars shall conform to the requirements of AASHTO M-31, or M-322 Grade 60.
- All construction joints shall be bonded unless otherwise noted.
- Class SI Concrete shall be used throughout. All exposed edges of concrete shall be beveled 3/4" unless otherwise shown in the plans.
- All lateral drainage that exists prior to construction shall be restored as shown on the plans and/or as directed by the Engineer. Unless otherwise specified, all costs of restoration shall be considered included with the Contract and no additional compensation will be allowed.
- All construction operations shall be contained within the easement area or work limits as indicated on the plans. It shall be the full responsibility of the Contractor to secure all rights of ingress and egress to said Right-of-Way including the satisfactory protection and restoration of property as required in Art. 107.20 and 107.23 of the Standard Specifications.
- The location, maintenance, removal, and restoration to original condition of all haul roads shall be approved by the Engineer and all cost shall be considered included in the Contract.
- The Contractor shall call J.U.L.I.E. (800-892-0123) for the location of existing utilities 48 hours prior to beginning construction.
- Prior to beginning work in the vicinity of the utilities, the Contractor shall contact the respective owners as shown on this sheet and shall schedule work so as not to interfere with any required adjustments.
- With the exception of those utilities designated on the plans to be adjusted by the Contractor, all existing utilities affected by the construction operations shall be adjusted by others. Utilities which do not require adjustment shall be protected and not disturbed. All costs of protection shall be considered included in the Contract, and no additional compensation will be allowed.
- All unsuitable material and excess excavation shall be disposed of at locations provided by the Contractor at his expense. The locations shall be inspected and approved by the Engineer.
- Channel excavation shall include the cost of removing and disposing of existing riprap, brick, block, rubble, etc.
- All open excavations are to be surrounded with a 4'-0" construction fence during non-working hours. The fence materials are to meet the approval of the Engineer. Cost of the fence shall be included in the contract.
- All dewatering costs shall be included in the contract.
- The Contractor shall notify the Village of Ashland and the Ashland Township concerning the closing of streets and shall conform to all requirements so specified without additional cost to the State.
- The Contractor shall submit his proposed method of maintaining channel flows, for approval by the Engineer, prior to beginning construction.
- Plan dimensions and details relative to the existing structures have been taken from existing plans and/or past surveys and reports, and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit bid price for the work.
- It is the intention of this Contract that disruption to traffic on Il Rte 125, 3 Mile Lane, Fremont St. and Cemetery Rd. is limited to the shortest reasonable time. At all times, either Fremont St. or Rte. 125 shall be completely open to traffic. Prior to starting work on either road, the Contractor shall submit to the Engineer for approval a satisfactory progress schedule in accordance with Article 108.02 of the Standard Specifications. A reasonable number of working days shall also be submitted for approval for each culvert.
- The Contractor shall notify IDOT District 6 Bureau of Operations at (217) 782-7314 14 days in advance of the IL. Route 125 road closure. This closure is restricted to 5 days.
- Prior to the beginning of work in the vicinity of the utilities, the Contractor shall contact the owners listed in the utility reference table and schedule work so as not to interfere with required adjustments.

REMOVAL OF EXISTING STRUCTURES

No.	Station	Type	Description	Each
1	Sta. 3+00±	Culvert	48" Dia. CMP with Reinforced Concrete Headwalls	1
2	Sta. 2+06±	Culvert	6'x4' Reinforced concrete Box Culvert	1
3	Sta. 21+95±	End Section	End Sections to be Removed From 36" RCP's	4
4	North Side Cemetery Rd.	Retaining Wall	Concrete Retaining Wall	1

PRECAST BOX CULVERT SCHEDULE (ASTM C1577)

Station	Size (Span x height)	Skew**	Design fill (Ft.)		PGE Backfill required
			Edge of shldr. (Min.)	Max.	
2+06.25 Fremont St.	Double 6' x 4'	6°	1.54'	1.7'	Yes
1047+96.17 IL. Rte. 125	Single 4' x 4'	45°	4.00'	4.18'	Yes
Three Mile Lane	Single 10' x 4'	0°	2.05'	2.36'	Yes

** The skew is the angle between a perpendicular line to the box culvert and the centerline of the roadway

UTILITY REFERENCE TABLE

J.U.L.I.E.	Call 48 hours prior to construction	(800) 892-0123
Village of Ashland	Dave Handy, Village President Village of Ashland 101 Yates Street Ashland, Illinois 62612	(217) 476-3317
Ashland Township	Jim Mitchell, Ashland Road Commissioner	(217) 476-8820
Telephone	James Mansfield, Design Engineer Ameritech Engineering Division 529 S. Seventh St. Floor 3E Springfield, IL 62721	(217) 789-8669 Fax (217) 789-5100
Telephone	G. R. Mansfield, Plant Supervisor Cass County Telephone Co. #1 Redbud Road, P.O. Box 230 Virginia, IL 62691	(217) 452-3022 Fax (217) 452-7030
Electric	Gordon Tingley, Senior Transmission Engineer Central Illinois Public Service Division Office 104 East Third St. Beardstown, Illinois 62618	(217) 323-2173
Gas	Willard Bohlmann Central Illinois Public Service Division Office 104 East Third St. Beardstown, Illinois 62618	(217) 323-2173 EXT. 263
Water Sewer	Dave Troxel P.O. Box 170 Ashland, Illinois 62612	(217) 476-3381
Cable TV	No Facilities in the area	

SCHEDULE OF EARTHWORK

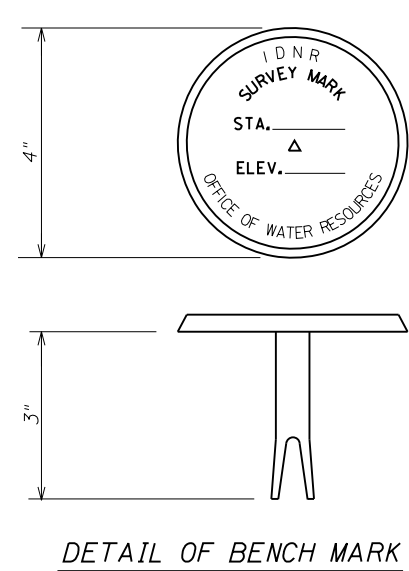
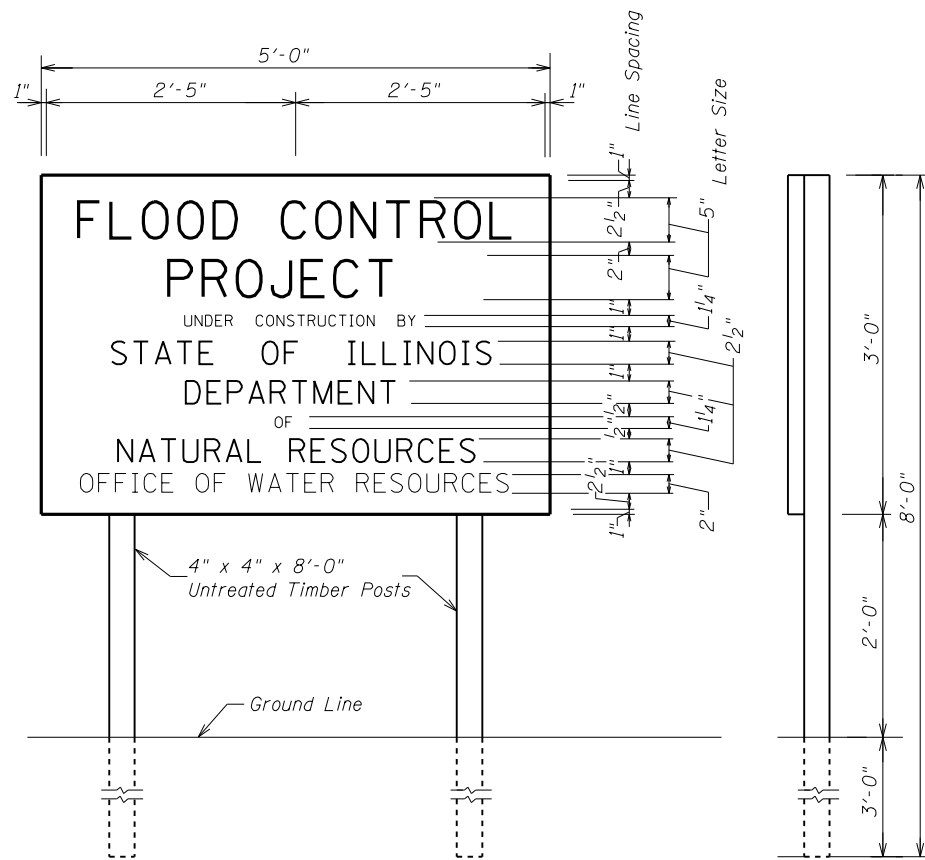
LOCATION	CHANNEL EXCAVATION (CU YD)	TOPSOIL EXCAVATION AND PLACEMENT (CU YD)	TOPSOIL PLACEMENT (NOT PAID FOR) (CU YD)	EARTH EXCAVATION (CU YD)
2+17 - 2+71				56
3+25 - 12+00		962	877	4,659
12+00 - 22+20		986	829	3,465
Fremont Street (Sheet 12)	10	18	15.5	
Cemetery Road (Sheet 14)	48	28	24	
Abandoned R.R. Crossing (Sht. 13)	82			
TOTAL	140	1,994	1,745.5	8,180

GENERAL NOTES

Signs shall be made of 3/4" plywood or oxford, or of metal (18 ga.). The Contractor shall furnish all material and labor for constructing and erecting the signs. The signs shall be placed prior to the starting of actual construction operations at each end of the construction section or as directed by the Engineer. Before any sign is erected, it shall be approved by the Engineer as to its appearance and quality of construction. The signs shall remain in place and shall be maintained in satisfactory condition until the project is accepted by the department. The Contractor shall then remove the signs and the material will become his property.

The letters on the sign shall be black mechanical style on a white background and appropriate border lines.

Paid for as Wood Information Signs.

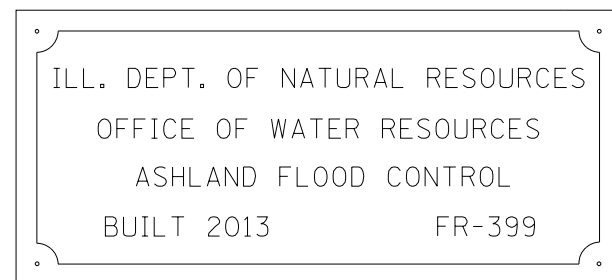


Bench Mark to be furnished by the Office of Water Resources.

See Design Plans for location.

Cost of placing shall be considered included with Concrete Box Culverts.

DETAIL OF BENCH MARK



LETTERING FOR NAME PLATE

(See Standard 515001 and sheet 10 for name plate location)

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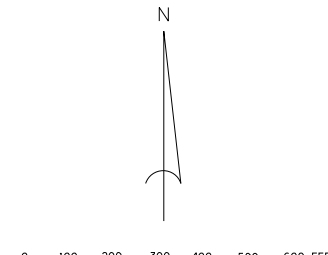
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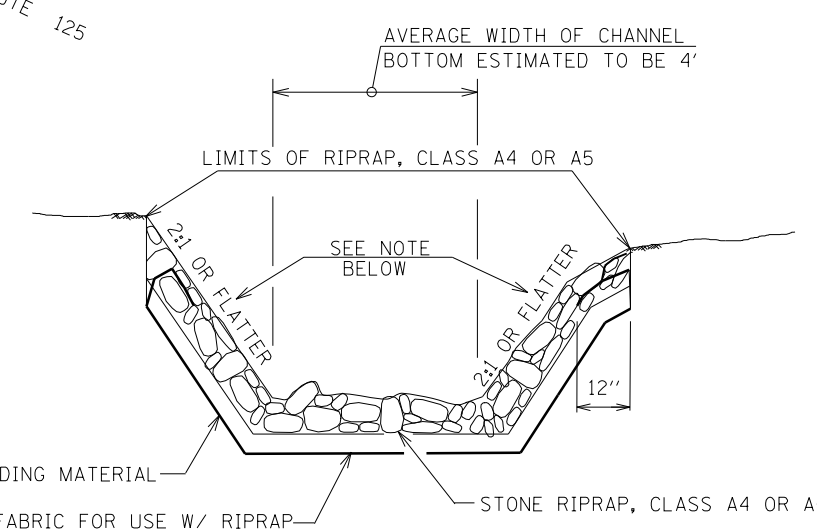
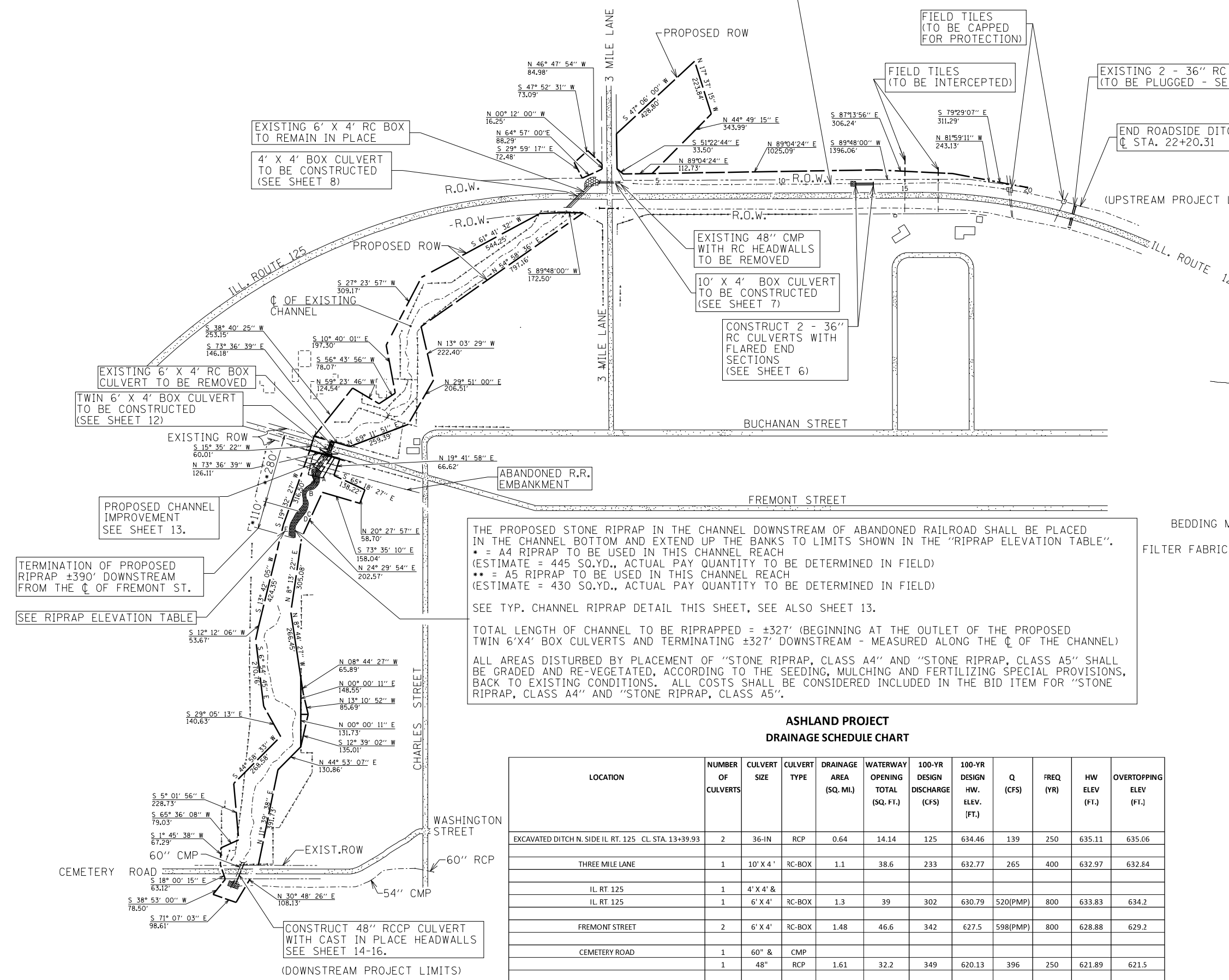
Designed By _____ Checked By TMM
Drawn By SIN _____ Checked By RLP

NOTE : SEE SHEETS 5 & 6 FOR DETAILS AND ROW REQUIREMENTS FOR THE ROADSIDE DITCH ALONG THE NORTH SIDE OF ROUTE 125.

PROPOSED ROADSIDE DITCH IMPROVEMENT FROM 3 MILE LANE, EAST TO THE EXISTING 36" RCP'S



VILLAGE OF ASHLAND, IL
FLOOD CONTROL PROJECT



TYPICAL CHANNEL RIPRAP DETAIL

NOTE: ALL CHANNEL BANKS WITH A SLOPE STEEPER THAN 2:1 (H:V) SHALL BE EXCAVATED AND REGRADED TO 2:1 (H:V). THE COST OF EXCAVATING AND REGRADING CHANNEL BANKS SHALL BE CONSIDERED INCLUDED IN "STONE RIPRAP, CLASS A4" AND "STONE RIPRAP, CLASS A5"

THE PROPOSED STONE RIPRAP IN THE CHANNEL DOWNSTREAM OF ABANDONED RAILROAD SHALL BE PLACED IN THE CHANNEL BOTTOM AND EXTEND UP THE BANKS TO LIMITS SHOWN IN THE "RIPRAP ELEVATION TABLE".
* = A4 RIPRAP TO BE USED IN THIS CHANNEL REACH (ESTIMATE = 445 SQ.YD., ACTUAL PAY QUANTITY TO BE DETERMINED IN FIELD)
** = A5 RIPRAP TO BE USED IN THIS CHANNEL REACH (ESTIMATE = 430 SQ.YD., ACTUAL PAY QUANTITY TO BE DETERMINED IN FIELD)

SEE TYP. CHANNEL RIPRAP DETAIL THIS SHEET, SEE ALSO SHEET 13.
TOTAL LENGTH OF CHANNEL TO BE RIPRAPPED = ±327' (BEGINNING AT THE OUTLET OF THE PROPOSED TWIN 6'X4' BOX CULVERTS AND TERMINATING ±327' DOWNSTREAM - MEASURED ALONG THE CL OF THE CHANNEL)

ALL AREAS DISTURBED BY PLACEMENT OF "STONE RIPRAP, CLASS A4" AND "STONE RIPRAP, CLASS A5" SHALL BE GRADED AND RE-VEGETATED, ACCORDING TO THE SEEDING, MULCHING AND FERTILIZING SPECIAL PROVISIONS, BACK TO EXISTING CONDITIONS. ALL COSTS SHALL BE CONSIDERED INCLUDED IN THE BID ITEM FOR "STONE RIPRAP, CLASS A4" AND "STONE RIPRAP, CLASS A5".

ASHLAND PROJECT
DRAINAGE SCHEDULE CHART

LOCATION	NUMBER OF CULVERTS	CULVERT SIZE	CULVERT TYPE	DRAINAGE AREA (SQ. MI.)	WATERWAY OPENING TOTAL (SQ. FT.)	100-YR DESIGN DISCHARGE (CFS)	100-YR DESIGN HW. ELEV. (FT.)	Q (CFS)	FREQ (YR)	HW ELEV (FT.)	OVERTOPPING ELEV (FT.)
EXCAVATED DITCH N. SIDE IL RT. 125 CL STA. 13+39.93	2	36-IN	RCP	0.64	14.14	125	634.46	139	250	635.11	635.06
THREE MILE LANE	1	10' X 4'	RC-BOX	1.1	38.6	233	632.77	265	400	632.97	632.84
IL RT 125	1	4' X 4' &									
IL RT 125	1	6' X 4'	RC-BOX	1.3	39	302	630.79	520(PMP)	800	633.83	634.2
FREMONT STREET	2	6' X 4'	RC-BOX	1.48	46.6	342	627.5	598(PMP)	800	628.88	629.2
CEMETERY ROAD	1	60" &	CMP								
	1	48"	RCP	1.61	32.2	349	620.13	396	250	621.89	621.5

RIPRAP ELEVATION TABLE

SECTION *** (TRAVERSE STA.)	TOP OF RIPRAP OFFSET FROM TRAV. LINE & ELEVATION (LOOKING DOWNSTREAM)	
	LT. BANK	RT. BANK
A - STA. 57+99.5	55.03', 623.33	22.88', 624.42
B - STA. 58+56	23.61', 622.23	6.94', 625.12
C - STA. 59+25	46.49', 623.81	18.61', 623.81
D - STA. 59+59	37.47', 623.25	8.77', 623.25
E - STA. 60+35	31.44', 621.95	6.17', 621.95

*** = SEE SHEET 13 FOR TRAVERSE LINE INFORMATION

BILL OF MATERIAL

STONE RIPRAP, CLASS A4	SQ.YD.	445
STONE RIPRAP, CLASS A5	SQ.YD.	430
FILTER FABRIC	SQ.YD.	875

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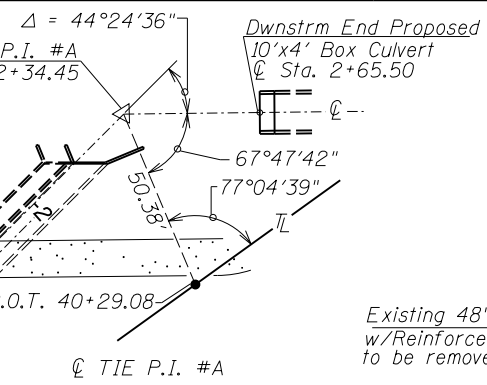
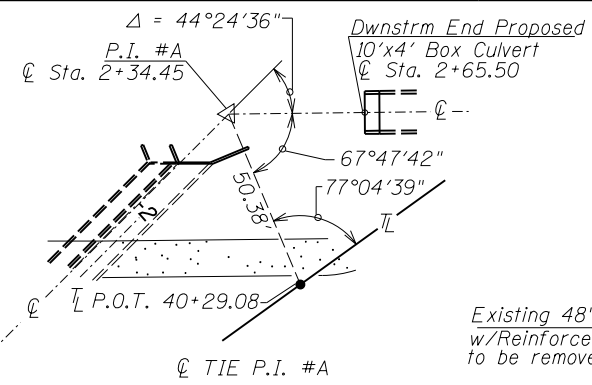
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12/13/2012

Checked by: GMS

Drawn by: S. N. March 4, 97



Construction Details for the proposed 10'x4' Box Culvert and the immediate area are shown on sheets 7 & 17.

Existing ROW Monument Sta. 1049+48.9 112' Lt

Existing field tile observation wells

10" Tile

8" Tile

T.L. P.I. Sta. 39+70.70 (PK Nail)

Proposed ROW Monument TL 38+02.36 51.65' Rt.

Seeding Limits

Top of Cut

Proposed ROW

Proposed Ditch

4' Ditch Bottom

Existing ROW

Fiber optic witness post
Burried Cable
1- Ameritech
1- Cass Co. Tele.

Fiber Term. Pit
Cass County Telephone

2- Burried Fiber Optic Cables
Cass County Telephone

Construction Details for the proposed 4'x4' Box Culvert and the immediate area are shown on sheets 8, 10 & 11

Proposed ROW

Existing ROW

Fiber optic witness post
Burried Cable
1- Ameritech
1- Cass Co. Tele.

Existing 48" CMP Pipe Culvert
w/Reinforced Concrete Headwalls
to be removed

Paved 10' Shoulder

Paved 10' Shoulder

Seeding and Work Limits

Existing ROW

POT Sta 0+43.12

Seeding and Work Limits

Burried Cass County Telephone Line

3 MILE LANE

Hwy Sta. 1049+19.26
(C of 3 mile lane & Ill. Rte 125)

24" CMP

Chis. x on S. end of D.S. Hdwl.

Chis. x on S. end of U.S. Hdwl.

Chis. x on E. end of U.S. Hdwl.

To TL P.I. 25+24.74 (Rebar)

To TL P.I. 49+32.31 (Rebar)

Reference Marks for TL P.I. 39+70.70 (PK nail)

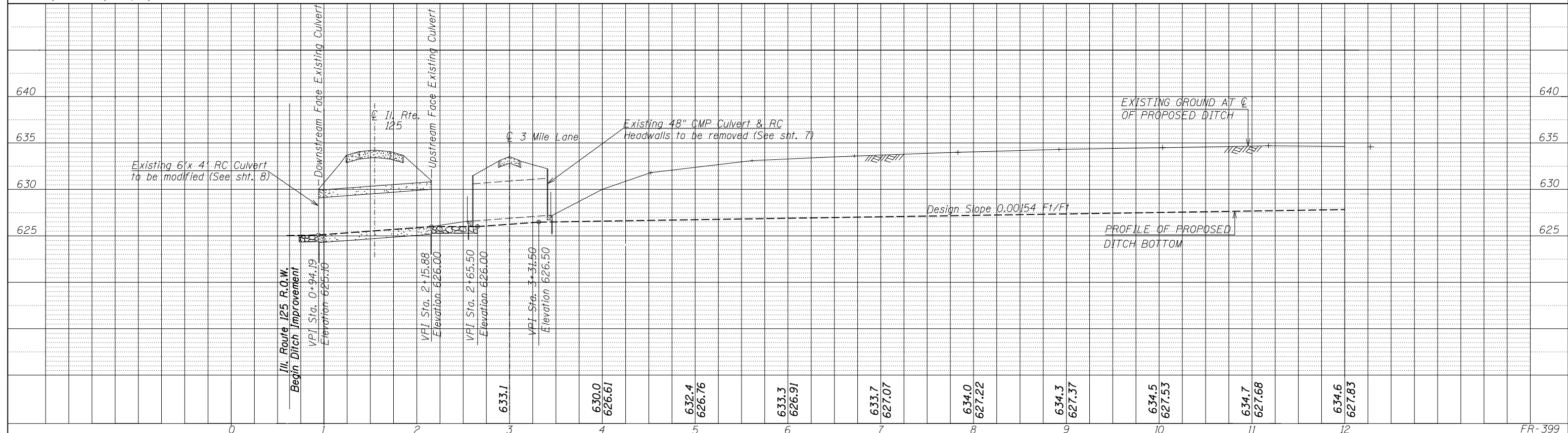
T.B.M. #3 Chis. T on Lt. D.S. end of Headwall of box culvert under Rte. 125 at Rd. 300 E
Elevation 630.15

T.B.M. #7A Disk set in top step at S.W. entrance to High School
Elevation 635.14

All utility alterations will be done by others.
See General Notes, Sheet 2.

BILL OF MATERIAL

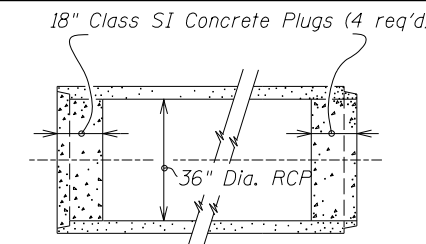
EARTH EXCAVATION	CU YD	4,715
SEEDING, MULCHING AND FERTILIZING	ACRE	1.88
FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS	EACH	1
TOPSOIL EXCAVATION AND PLACEMENT	CU YD	962
TEMPORARY EROSION CONTROL SEEDING	POUND	188



*Transition from 6:1 at this location to 4:1 at the culvert.

Field tile observation wells and segments of the field tile intercepted by the proposed ditch shall be removed and disposed of. See Field Tile Details, sheet 18.

Proposed Ditch Curve A1
 PI Sta. 18+15.33
 $\Delta = 15^\circ 52' 41''$ (RT)
 $D = 2^\circ 04' 33''$
 $T = 384.91'$
 $R = 2,760.08'$
 $L = 764.89'$
 $E = 26.71'$
 PC Sta. 14+30.42
 PT Sta. 21+95.31



T.B.M. #1 Chis. D on W. end of S. Headwall of box culvert under Rte. 125, 500'+/- W. of Rte. 123
 Elevation 636.62

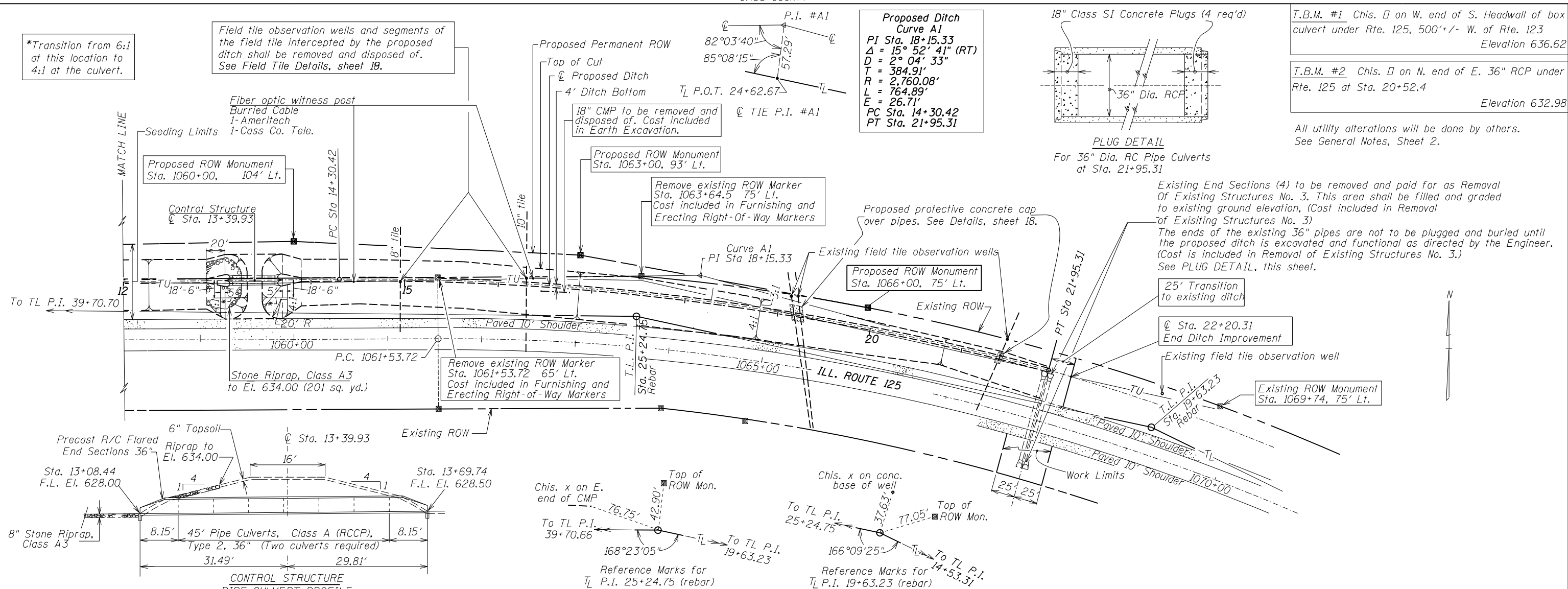
T.B.M. #2 Chis. D on N. end of E. 36" RCP under Rte. 125 at Sta. 20+52.4
 Elevation 632.98

All utility alterations will be done by others. See General Notes, Sheet 2.

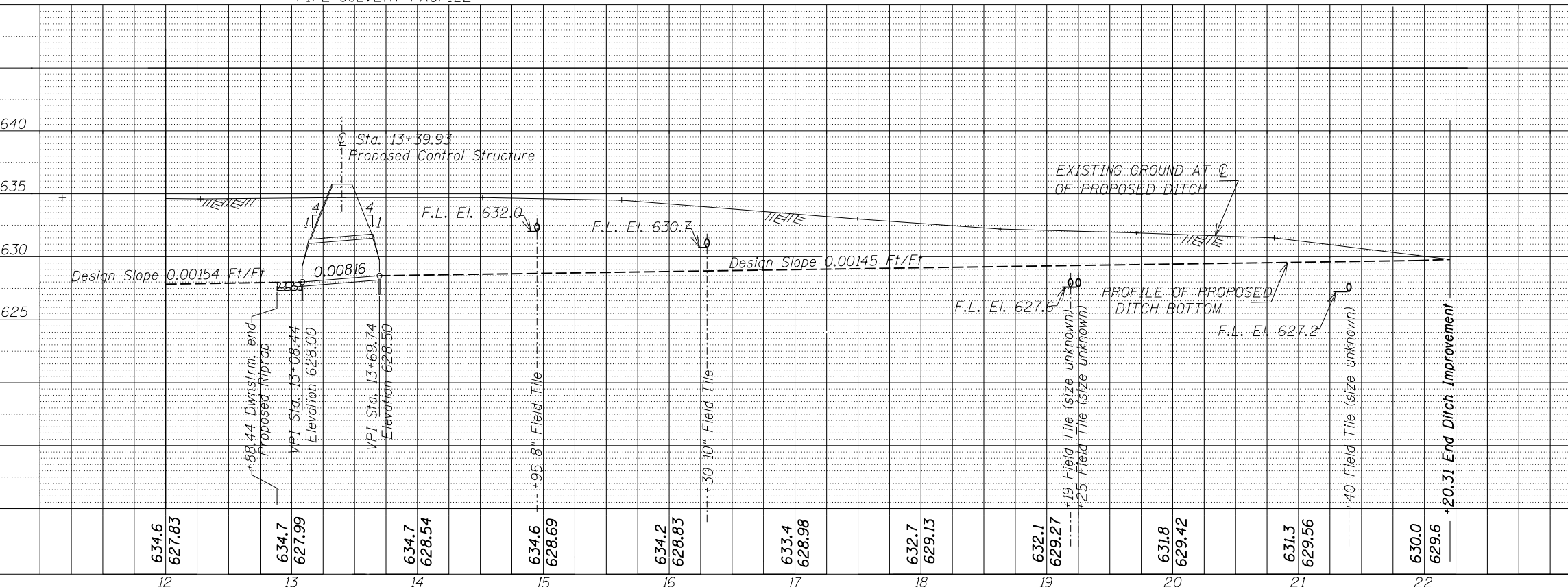
PLUG DETAIL
 For 36" Dia. RC Pipe Culverts at Sta. 21+95.31

Existing End Sections (4) to be removed and paid for as Removal Of Existing Structures No. 3. This area shall be filled and graded to existing ground elevation. (Cost included in Removal of Existing Structures No. 3)

The ends of the existing 36" pipes are not to be plugged and buried until the proposed ditch is excavated and functional as directed by the Engineer. (Cost is included in Removal of Existing Structures No. 3.) See PLUG DETAIL, this sheet.



CONTROL STRUCTURE PIPE CULVERT PROFILE



BILL OF MATERIAL

ITEM	UNIT	QUANTITY	REMARKS
EARTH EXCAVATION	CU YD	3,465	
SEEDING, MULCHING AND FERTILIZING	ACRE	1.58	
STONE RIPRAP, CLASS A3	SQ YD	201	
PIPE CULVERTS, CLASS A (RCCP), TYPE 2, 36"	FOOT	90	
REMOVAL OF EXISTING STRUCTURES NO. 3 EACH		4	640
PRECAST REINFORCED CONCRETE FLARED END SECTIONS 36"	EACH	4	
FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS	EACH	3	635
TOPSOIL EXCAVATION AND PLACEMENT	CU YD	986	
TEMPORARY EROSION CONTROL SEEDING	POUND	158	630

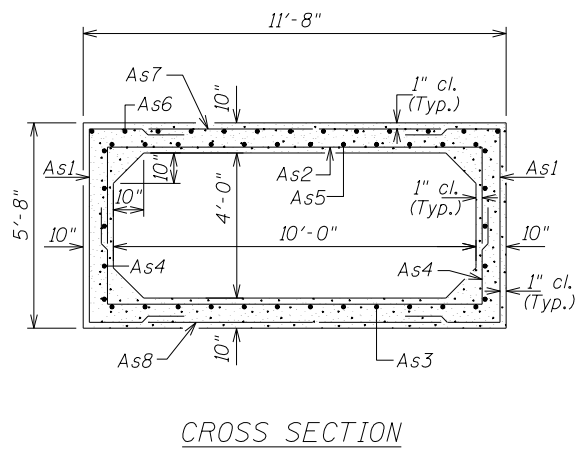
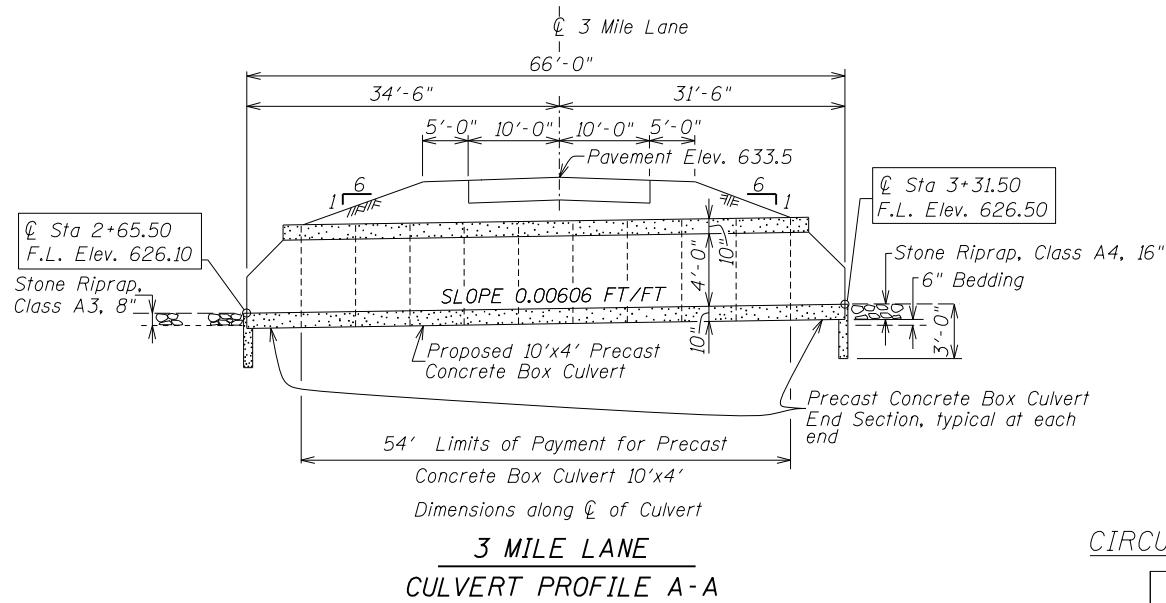
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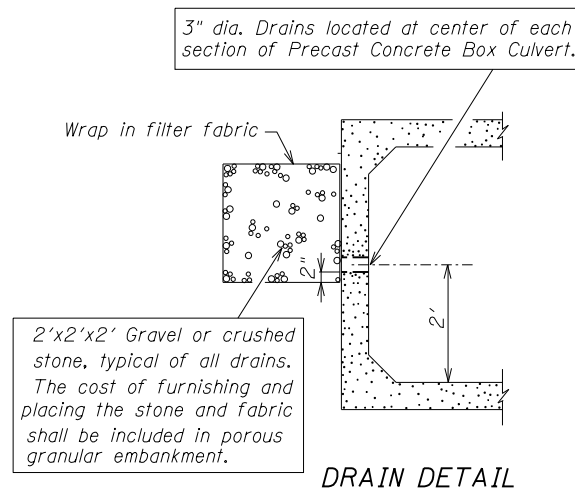
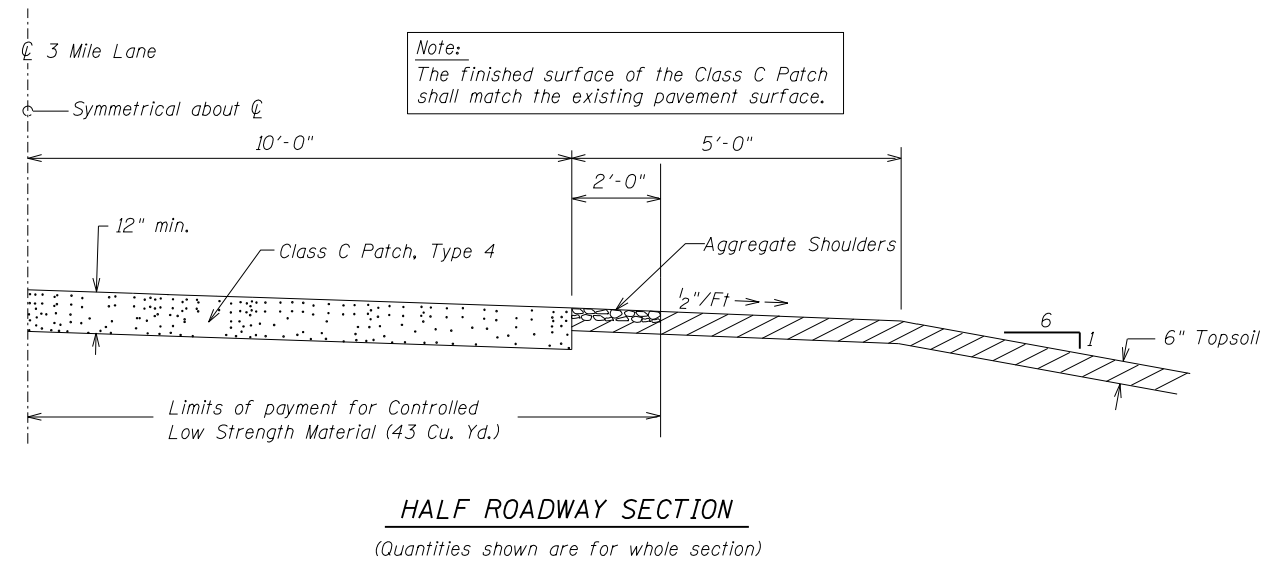
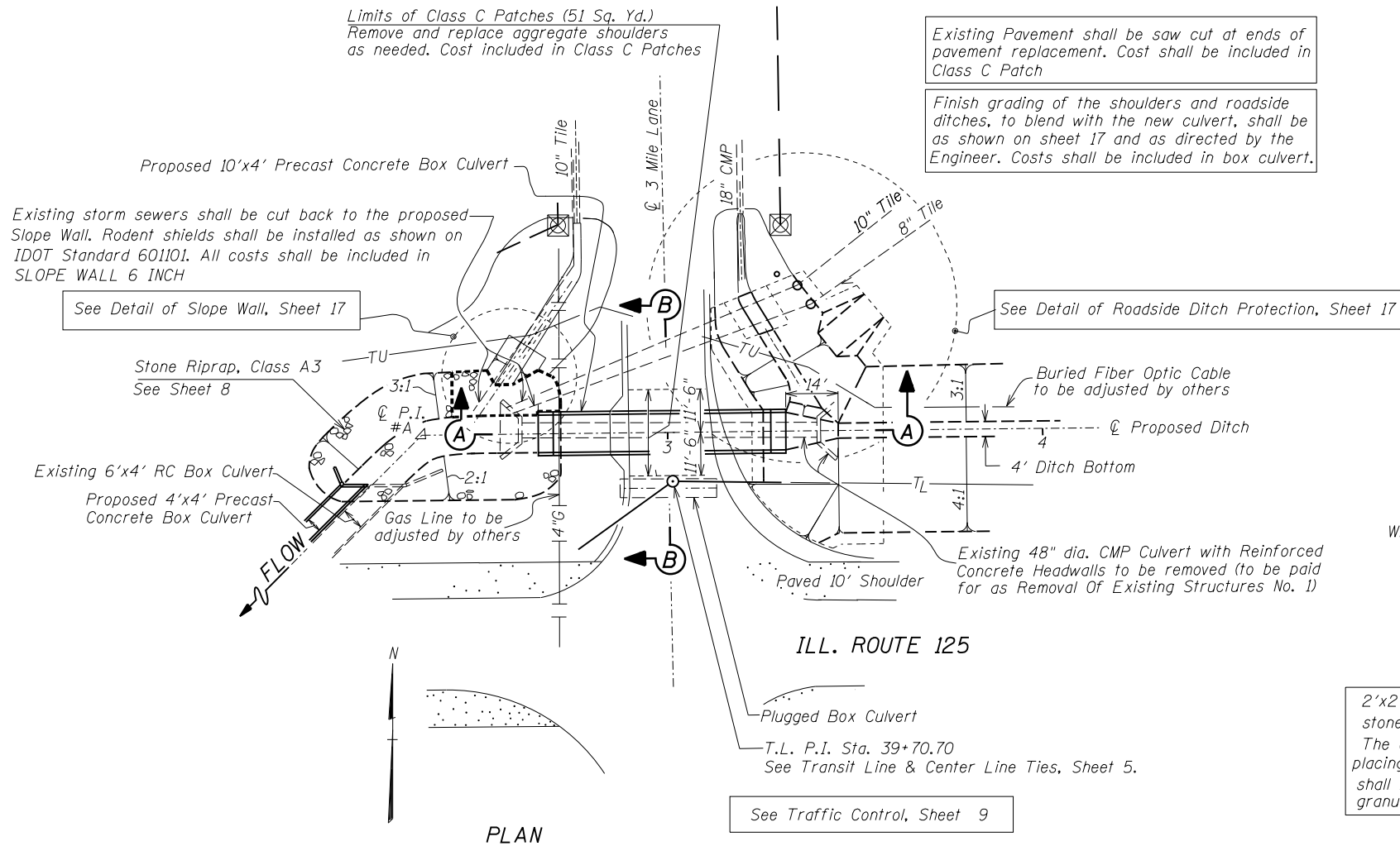
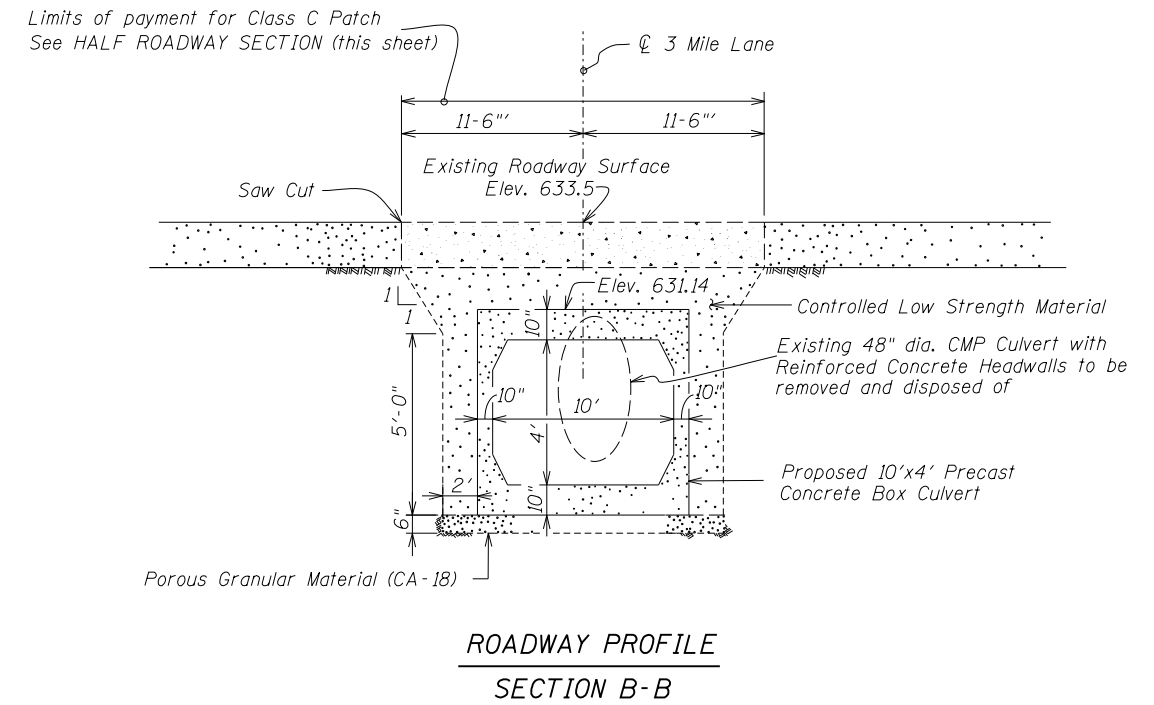
Checked by: GMS

Drawn by: S. N. March 5, 97



CIRCUMFERENTIAL REINFORCEMENT AREA (Inch²/Ft.)

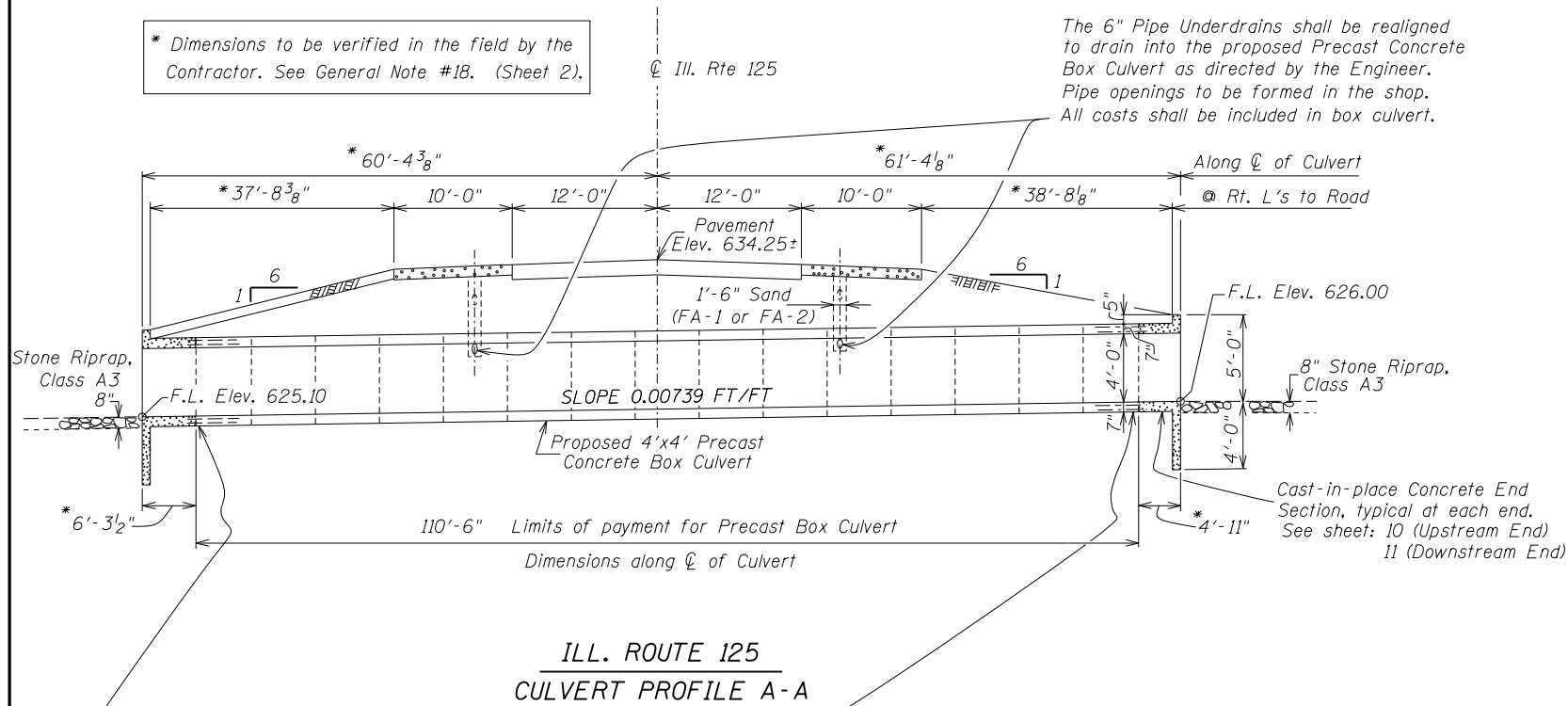
As1	As2	As3	As4	As5	As6	As7	As8
0.37	0.33	0.30	0.24	0.24	0.24	0.24	0.24



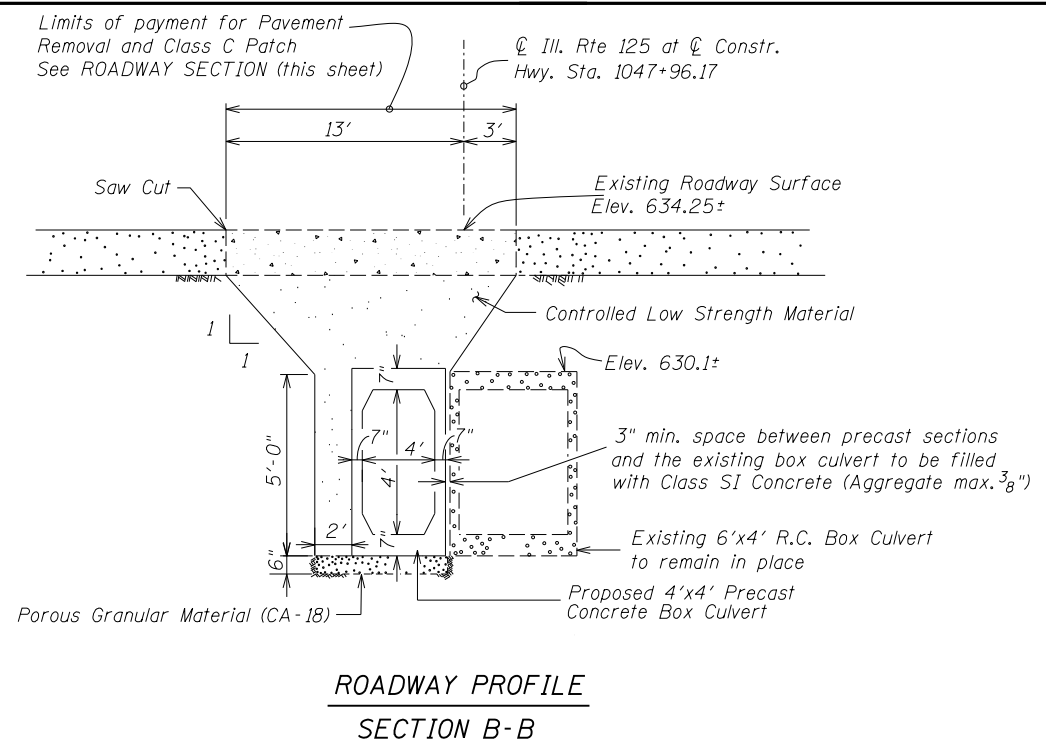
BILL OF MATERIAL

CONTROLLED LOW STRENGTH MATERIAL	CU YD	43
CLASS C PATCHES, TYPE 4, 12 INCH	SQ YD	51
PRECAST CONCRETE BOX CULVERTS 10'X4'	FOOT	54
BOX CULVERT END SECTIONS, CULVERT NO. 1	EACH	2
REMOVAL OF EXISTING STRUCTURES NO. 1	EACH	1

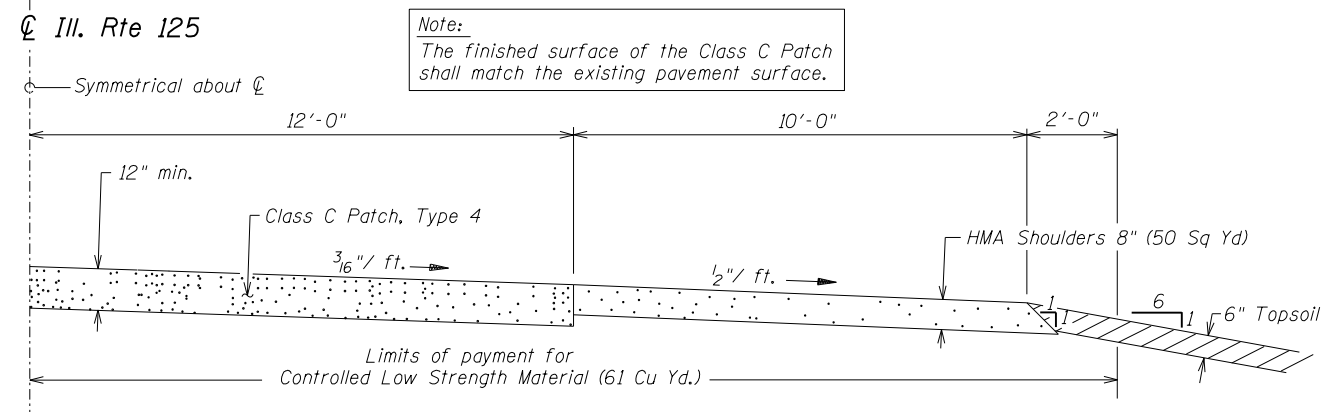
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 Drawn By S.M. 3-4-97 Checked By TMM
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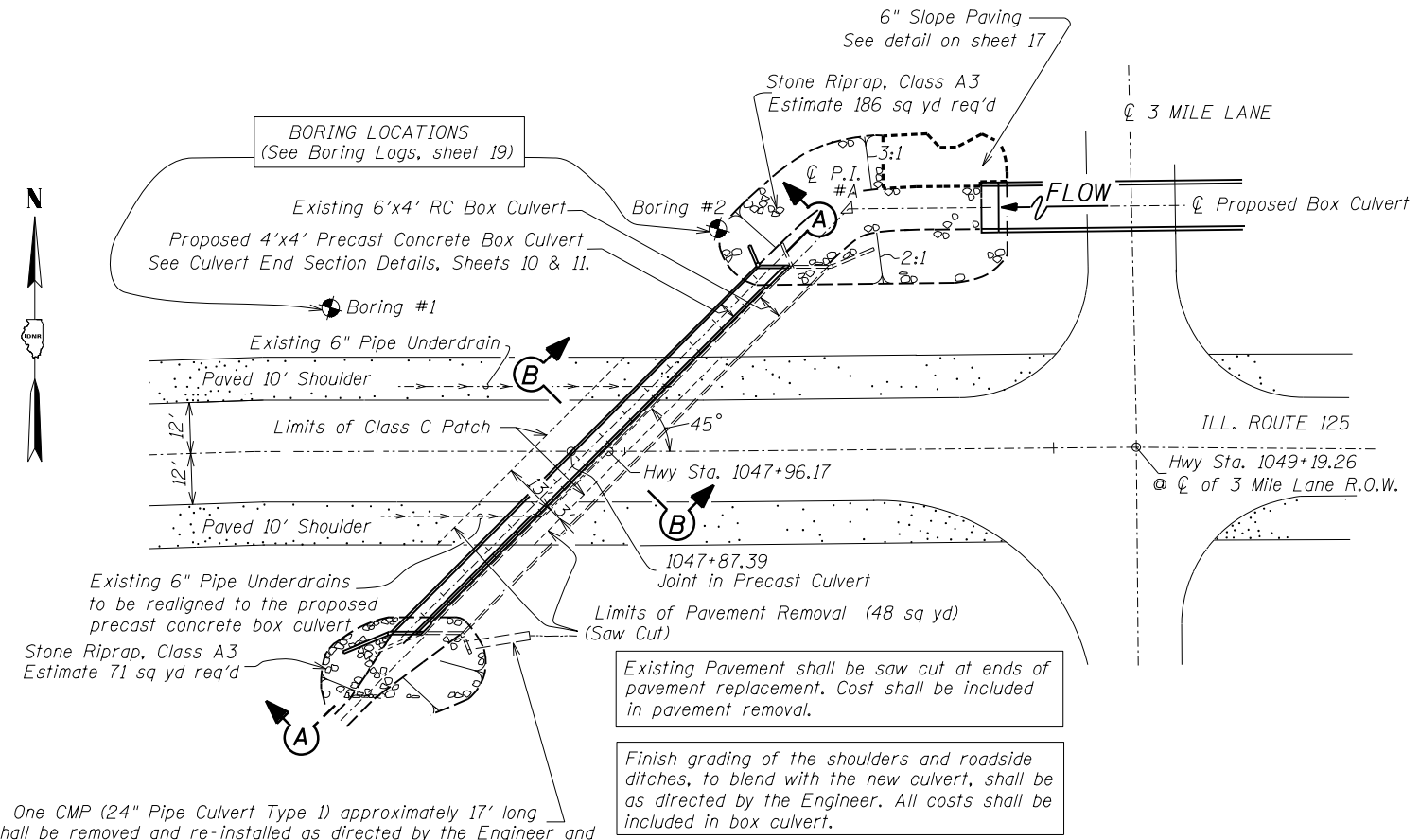
Note: One section, at each end of the proposed precast culvert, shall be ordered with a minimum of 12" of reinforcement protruding from the plain end. See Sheets 10 & 11 for detail.



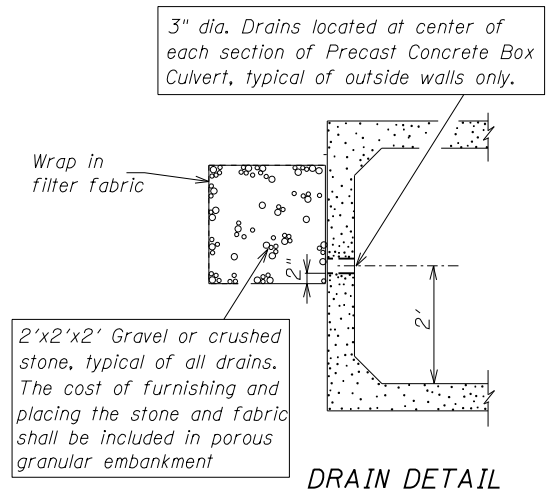
ROADWAY PROFILE
SECTION B-B



HALF ROADWAY SECTION
(Quantities shown are for whole section)



PLAN



DRAIN DETAIL

BILL OF MATERIAL

CONTROLLED LOW STRENGTH MATERIAL	CU YD	61
CLASS C PATCHES, TYPE 4, 12 INCH	SQ YD	60
PAVEMENT REMOVAL	SQ YD	48
HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	50
PRECAST CONCRETE BOX CULVERTS 4'X4'	FOOT	110.5
STONE RIPRAP, CLASS A3	SQ YD	257

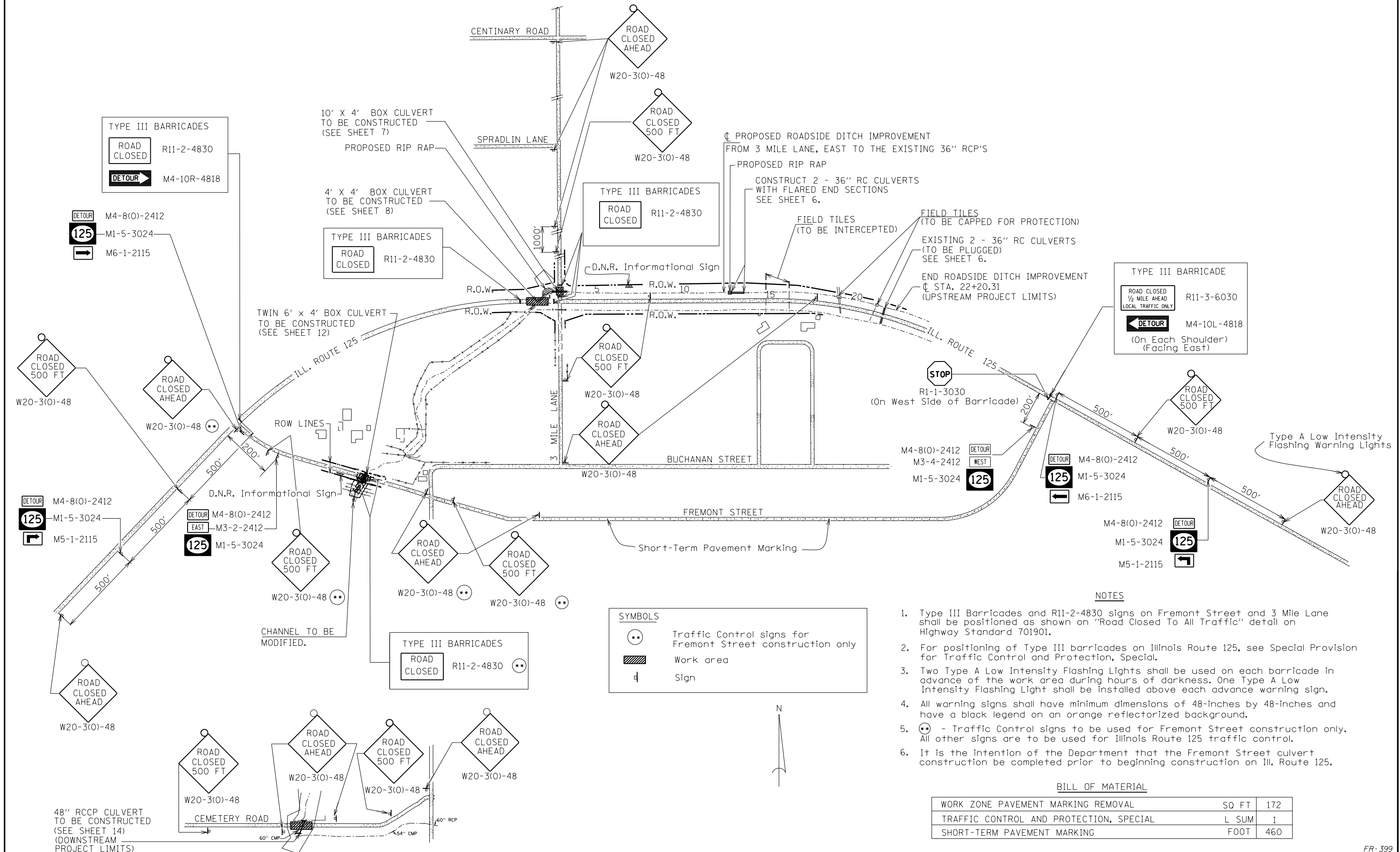
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12/4/2012

Designed By: TMM
Checked By: RLP
Drawn By: S/W



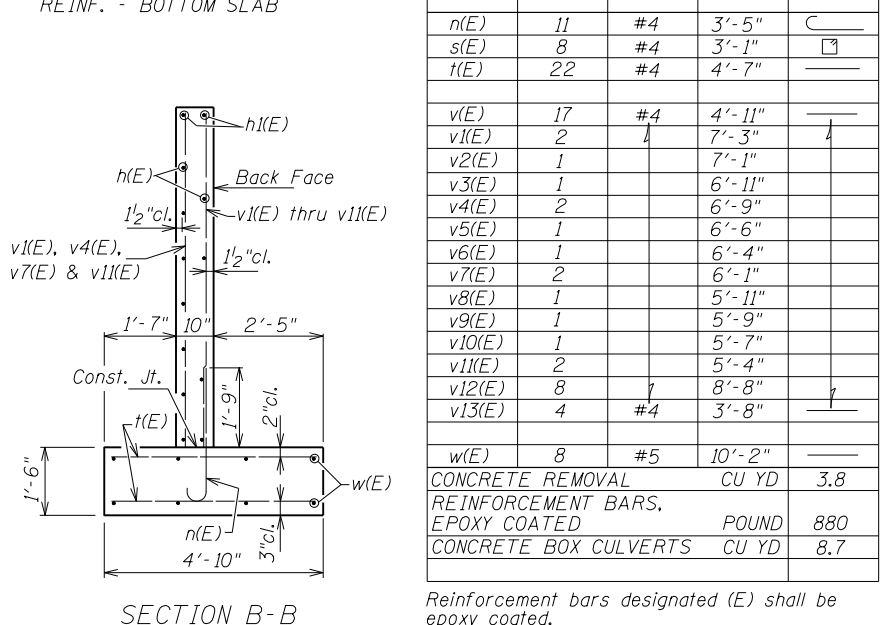
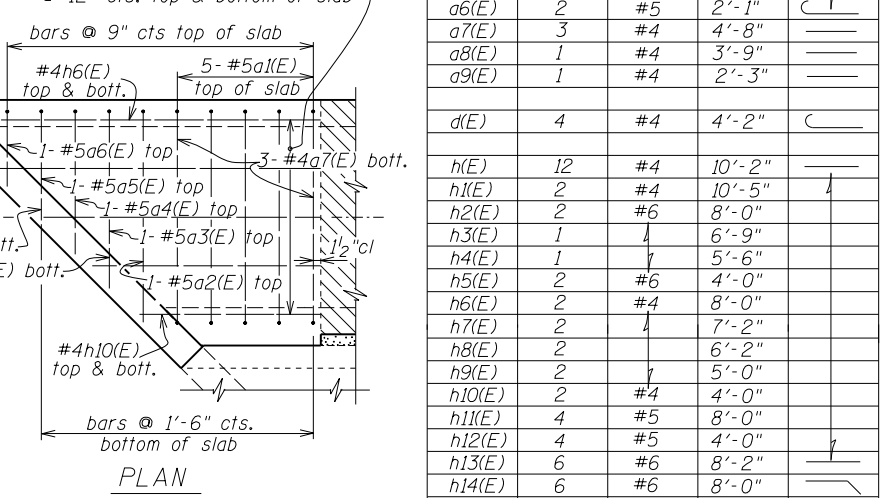
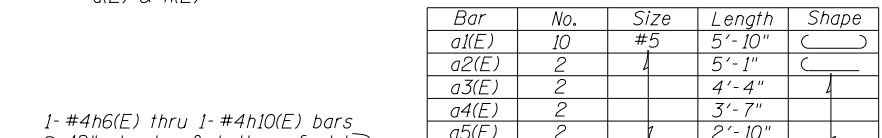
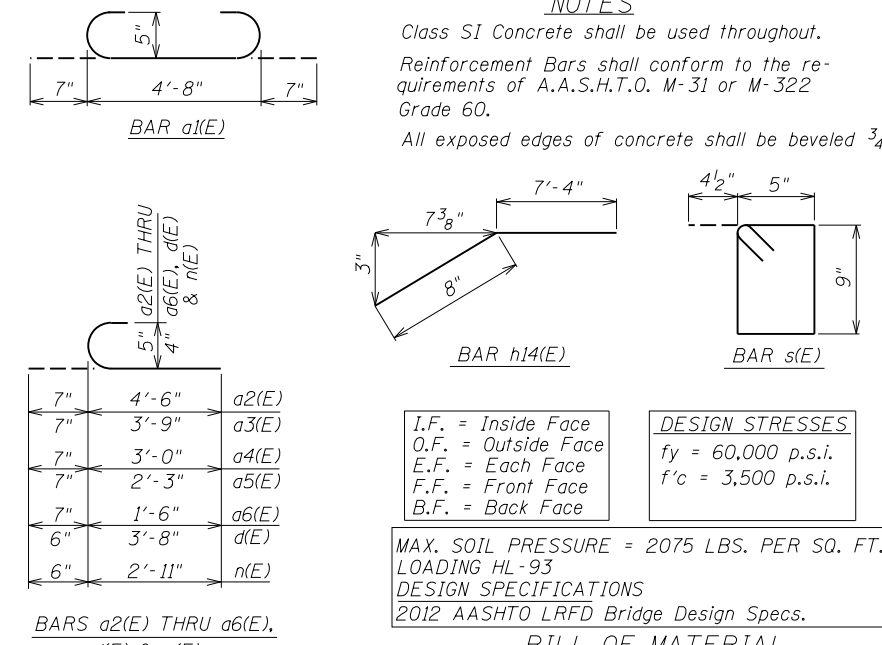
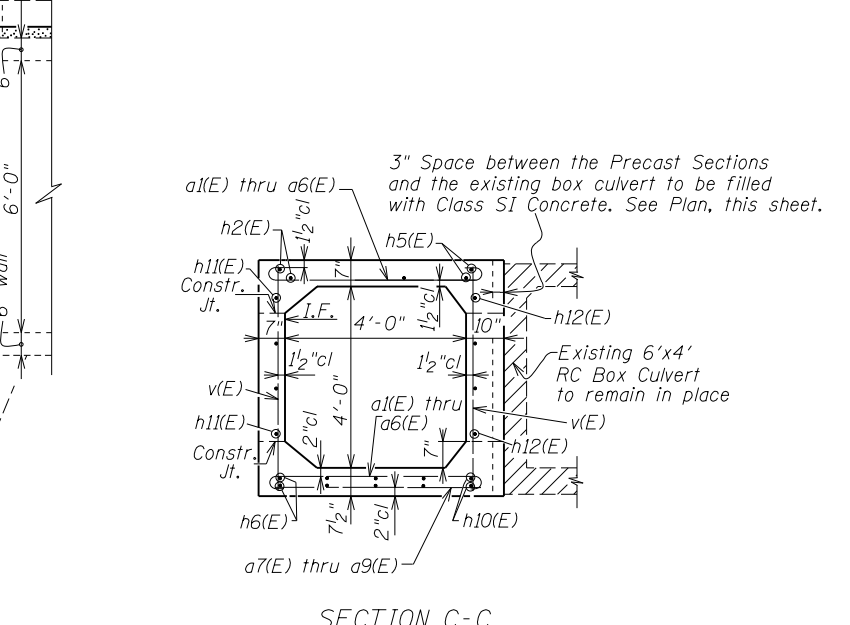
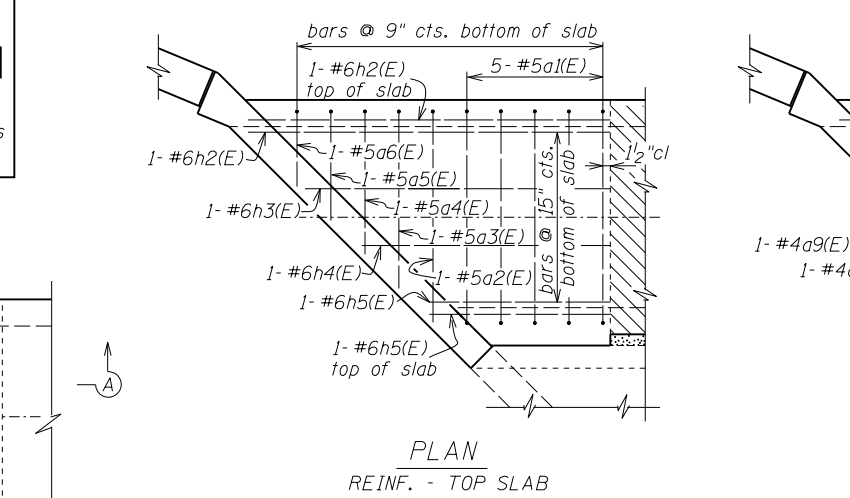
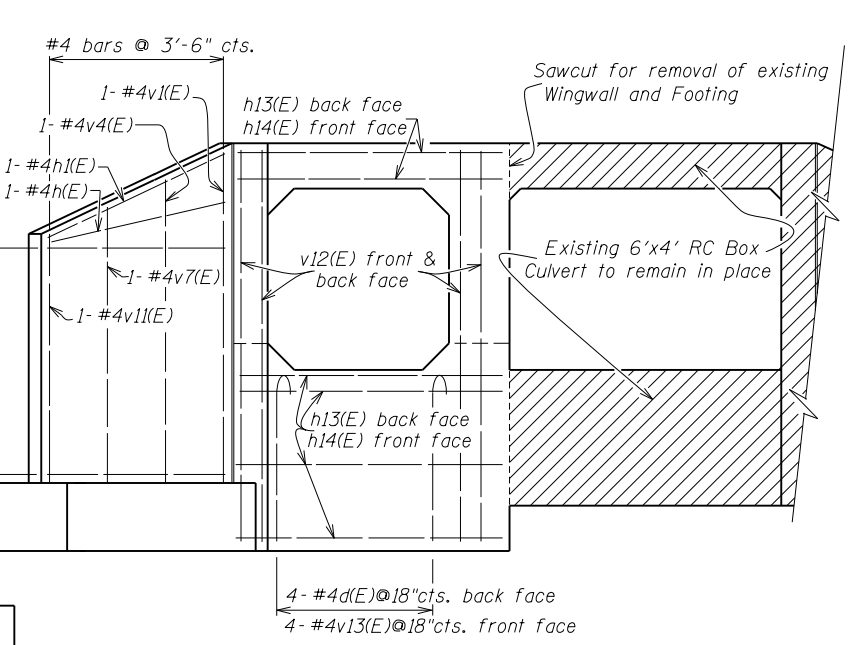
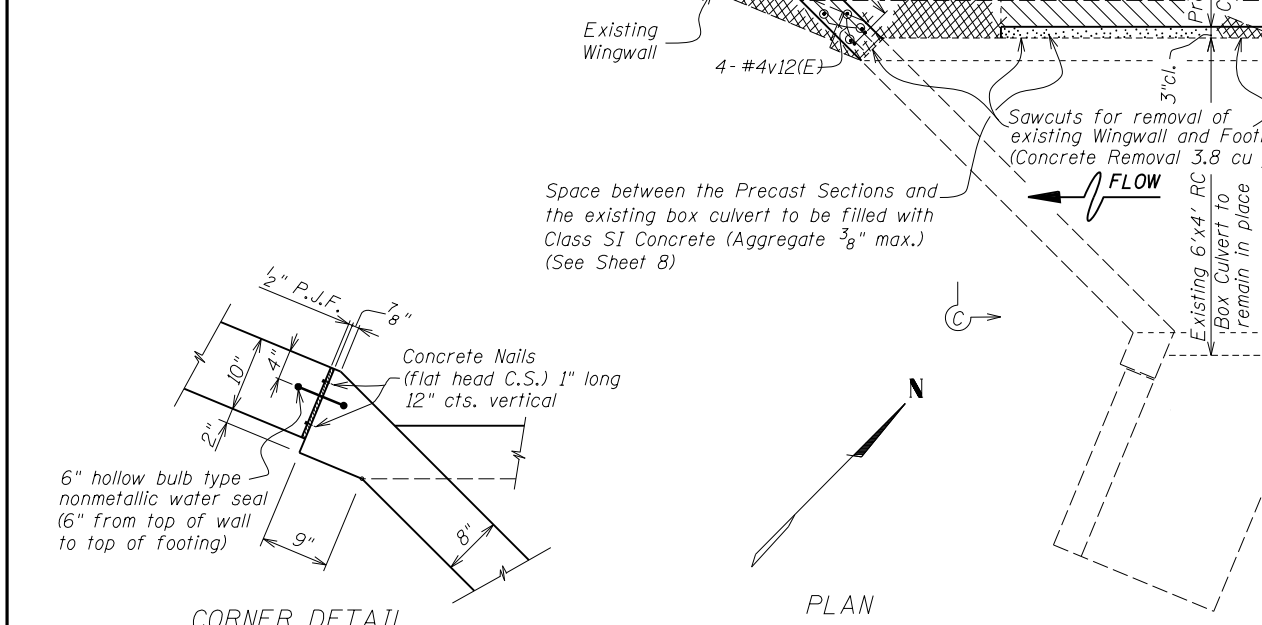
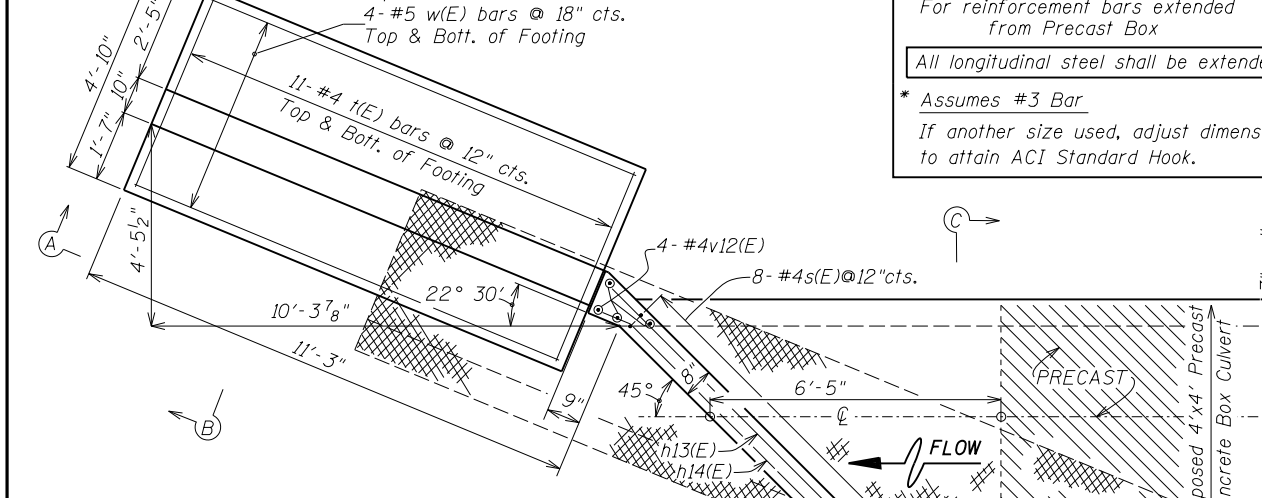
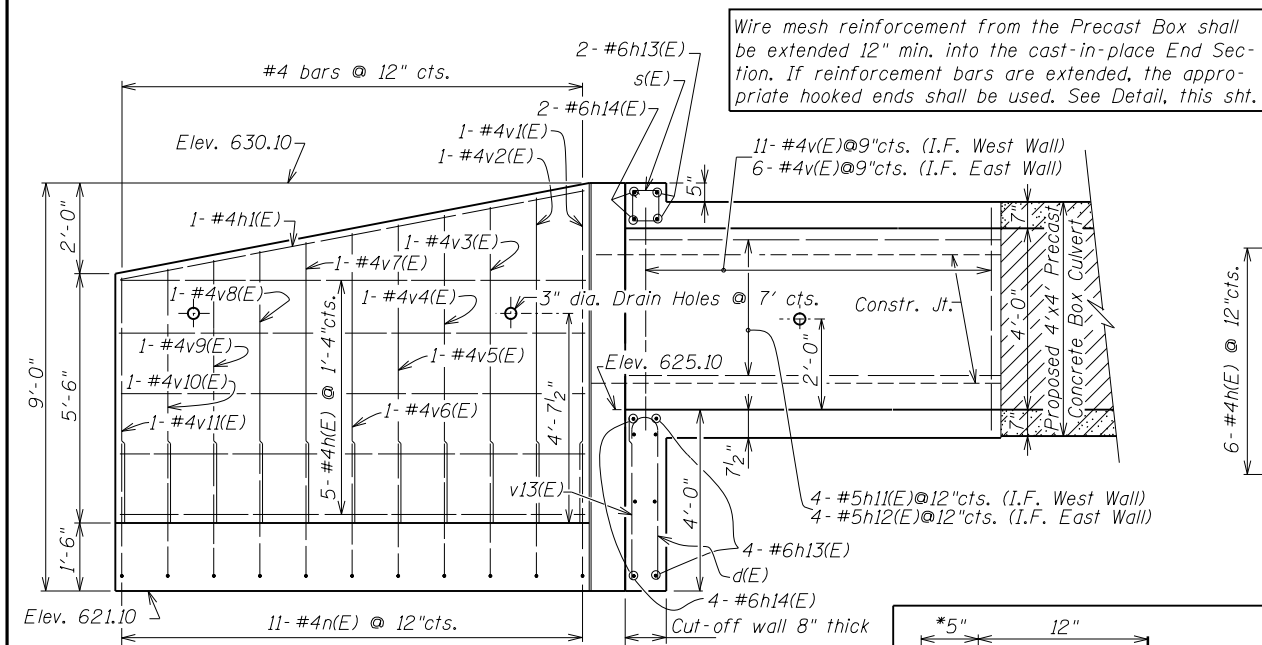
SYMBOLS

- ⊙ Traffic Control signs for Fremont Street construction only
- ▨ Work area
- ⌄ Sign

- NOTES**
- Type III Barricades and R11-2-4830 signs on Fremont Street and 3 Mile Lane shall be positioned as shown on "Road Closed To All Traffic" detail on Highway Standard 701901.
 - For positioning of Type III barricades on Illinois Route 125, see Special Provision for Traffic Control and Protection, Special.
 - Two Type A Low Intensity Flashing Lights shall be used on each barricade in advance of the work area during hours of darkness. One Type A Low Intensity Flashing Light shall be installed above each advance warning sign.
 - All warning signs shall have minimum dimensions of 48-inches by 48-inches and have a black legend on an orange reflectorized background.
 - ⊙ - Traffic Control signs to be used for Fremont Street construction only. All other signs are to be used for Illinois Route 125 traffic control.
 - It is the intention of the Department that the Fremont Street culvert construction be completed prior to beginning construction on Ill. Route 125.

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	172
TRAFFIC CONTROL AND PROTECTION, SPECIAL	L SUM	1
SHORT-TERM PAVEMENT MARKING	FOOT	460



NOTES
Class SI Concrete shall be used throughout.
Reinforcement Bars shall conform to the requirements of A.A.S.H.T.O. M-31 or M-322 Grade 60.
All exposed edges of concrete shall be beveled 3/4".

I.F. = Inside Face
O.F. = Outside Face
E.F. = Each Face
F.F. = Front Face
B.F. = Back Face

DESIGN STRESSES
fy = 60,000 p.s.i.
f'c = 3,500 p.s.i.

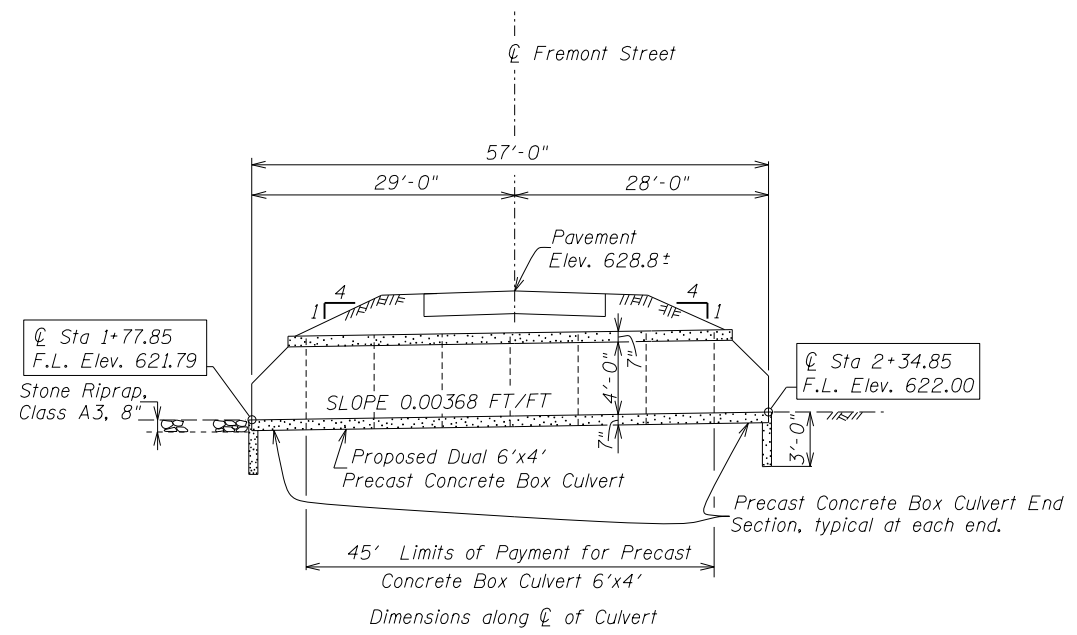
MAX. SOIL PRESSURE = 2075 LBS. PER SQ. FT.
LOADING HL-93
DESIGN SPECIFICATIONS
2012 AASHTO LRFD Bridge Design Specs.

BILL OF MATERIAL

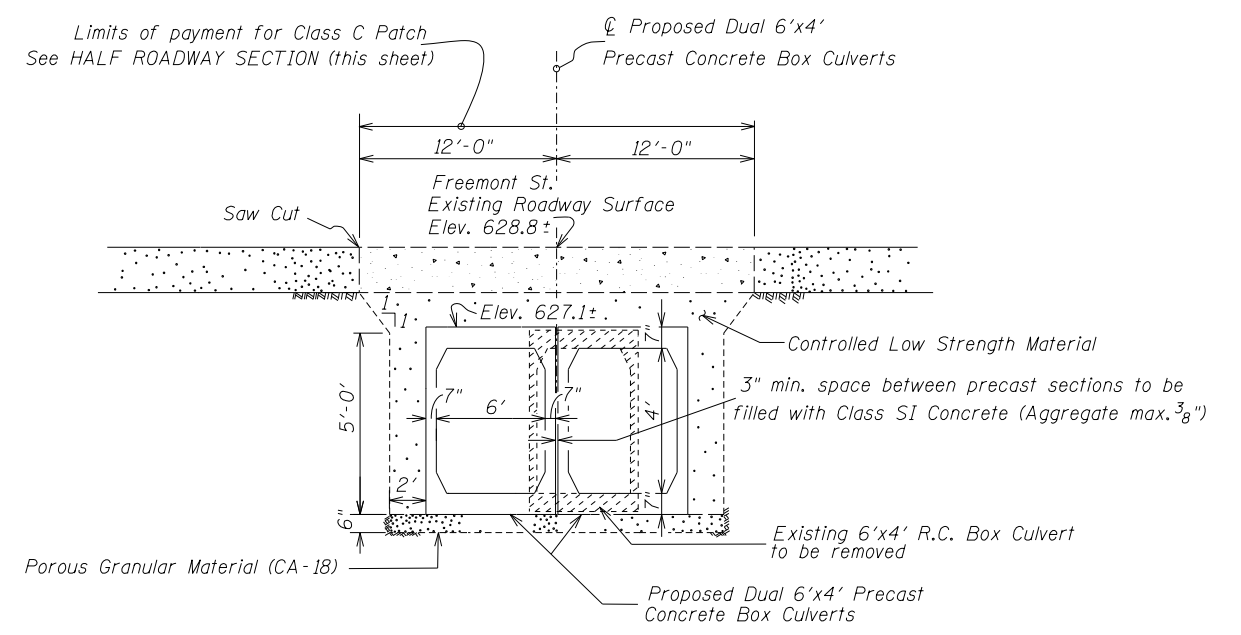
Bar	No.	Size	Length	Shape
a1(E)	10	#5	5'-10"	U
a2(E)	2	#5	5'-1"	U
a3(E)	2	#5	4'-4"	U
a4(E)	2	#5	3'-7"	U
a5(E)	2	#5	2'-10"	U
a6(E)	2	#5	2'-1"	U
a7(E)	3	#4	4'-8"	U
a8(E)	1	#4	3'-9"	U
a9(E)	1	#4	2'-3"	U
d(E)	4	#4	4'-2"	U
h(E)	12	#4	10'-2"	U
h1(E)	2	#4	10'-5"	U
h2(E)	2	#6	8'-0"	U
h3(E)	1	#4	6'-9"	U
h4(E)	1	#4	5'-6"	U
h5(E)	2	#6	4'-0"	U
h6(E)	2	#4	8'-0"	U
h7(E)	2	#4	7'-2"	U
h8(E)	2	#4	6'-2"	U
h9(E)	2	#4	5'-0"	U
h10(E)	2	#4	4'-0"	U
h11(E)	4	#5	8'-0"	U
h12(E)	4	#5	4'-0"	U
h13(E)	6	#6	8'-2"	U
h14(E)	6	#6	8'-0"	U
n(E)	11	#4	3'-5"	U
s(E)	8	#4	3'-1"	U
t(E)	22	#4	4'-7"	U
v(E)	17	#4	4'-11"	U
v1(E)	2	#4	7'-3"	U
v2(E)	1	#4	7'-1"	U
v3(E)	1	#4	6'-11"	U
v4(E)	2	#4	6'-9"	U
v5(E)	1	#4	6'-6"	U
v6(E)	1	#4	6'-4"	U
v7(E)	2	#4	6'-1"	U
v8(E)	1	#4	5'-11"	U
v9(E)	1	#4	5'-9"	U
v10(E)	1	#4	5'-7"	U
v11(E)	2	#4	5'-4"	U
v12(E)	8	#4	8'-8"	U
v13(E)	4	#4	3'-8"	U
w(E)	8	#5	10'-2"	U
CONCRETE REMOVAL			CU YD	3.8
REINFORCEMENT BARS, EPOXY COATED			POUND	880
CONCRETE BOX CULVERTS			CU YD	8.7

Reinforcement bars designated (E) shall be epoxy coated.

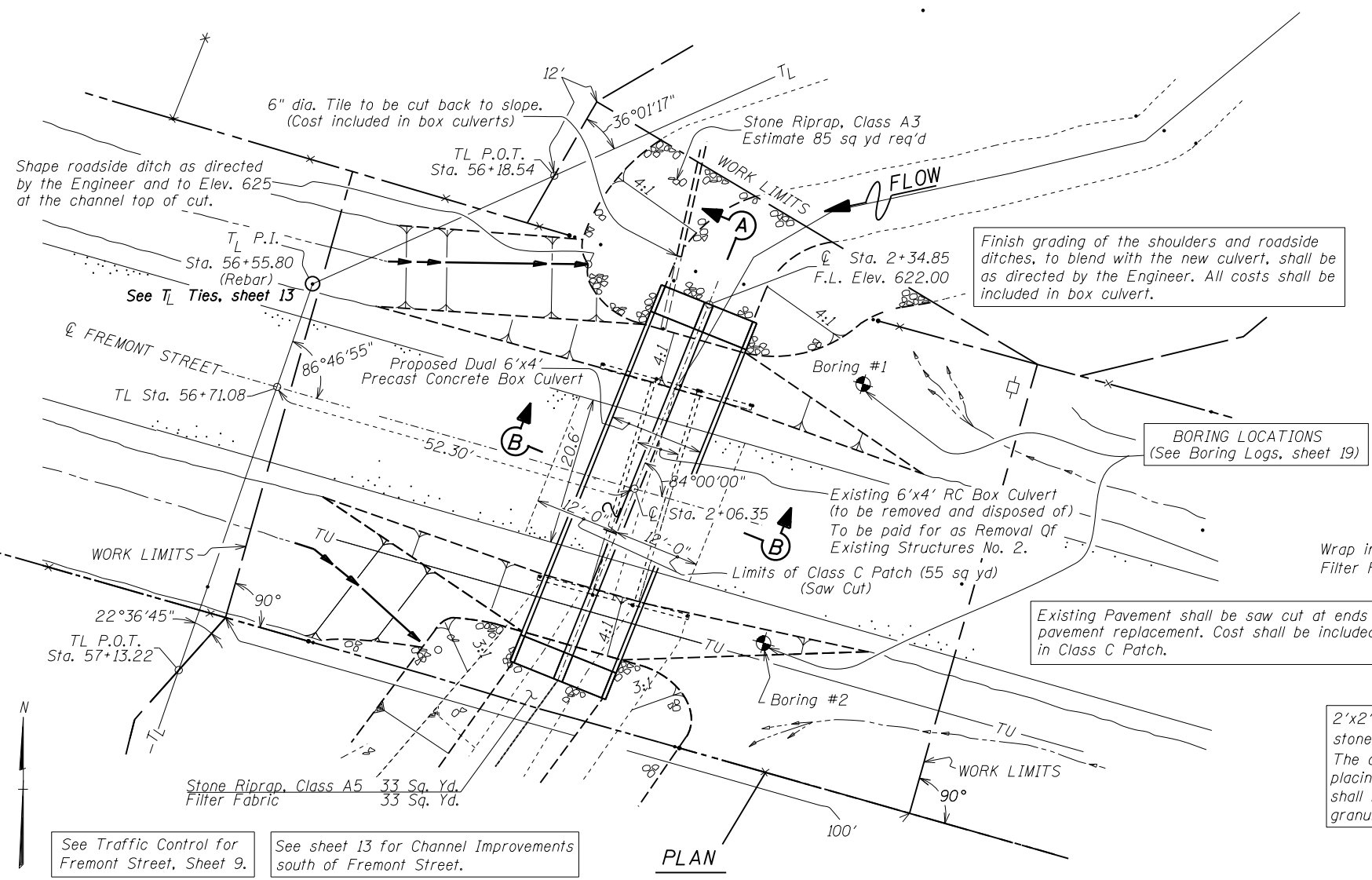
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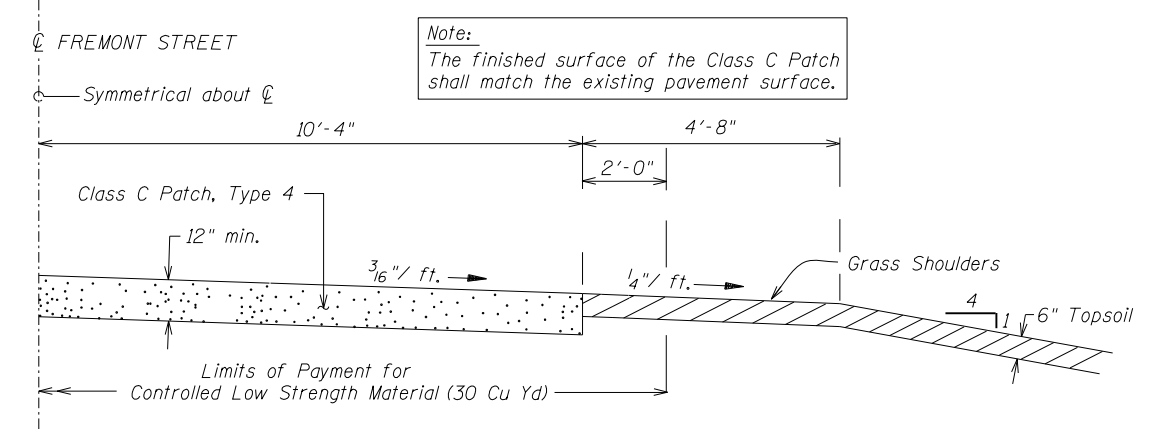
**FREMONT STREET
CULVERT PROFILE A-A**



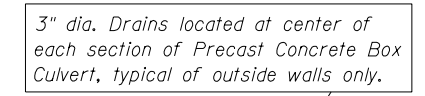
**ROADWAY PROFILE
SECTION B-B**



PLAN



HALF ROADWAY SECTION
(Quantities shown are for whole section)



DRAIN DETAIL

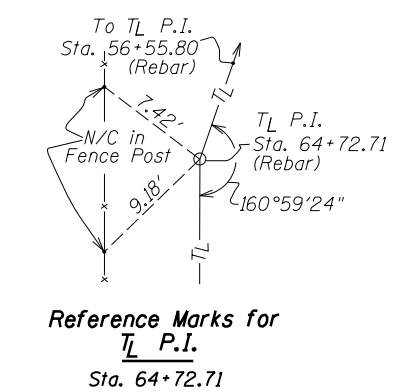
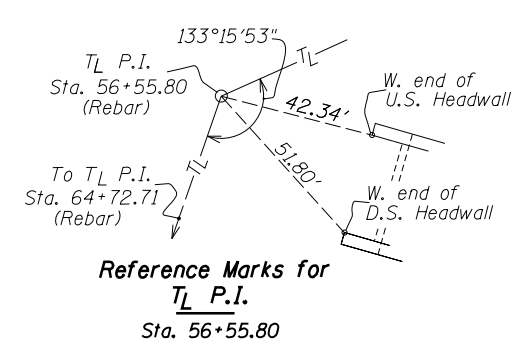
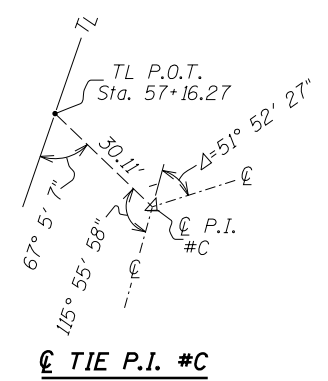
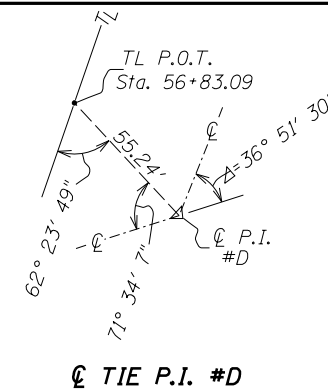
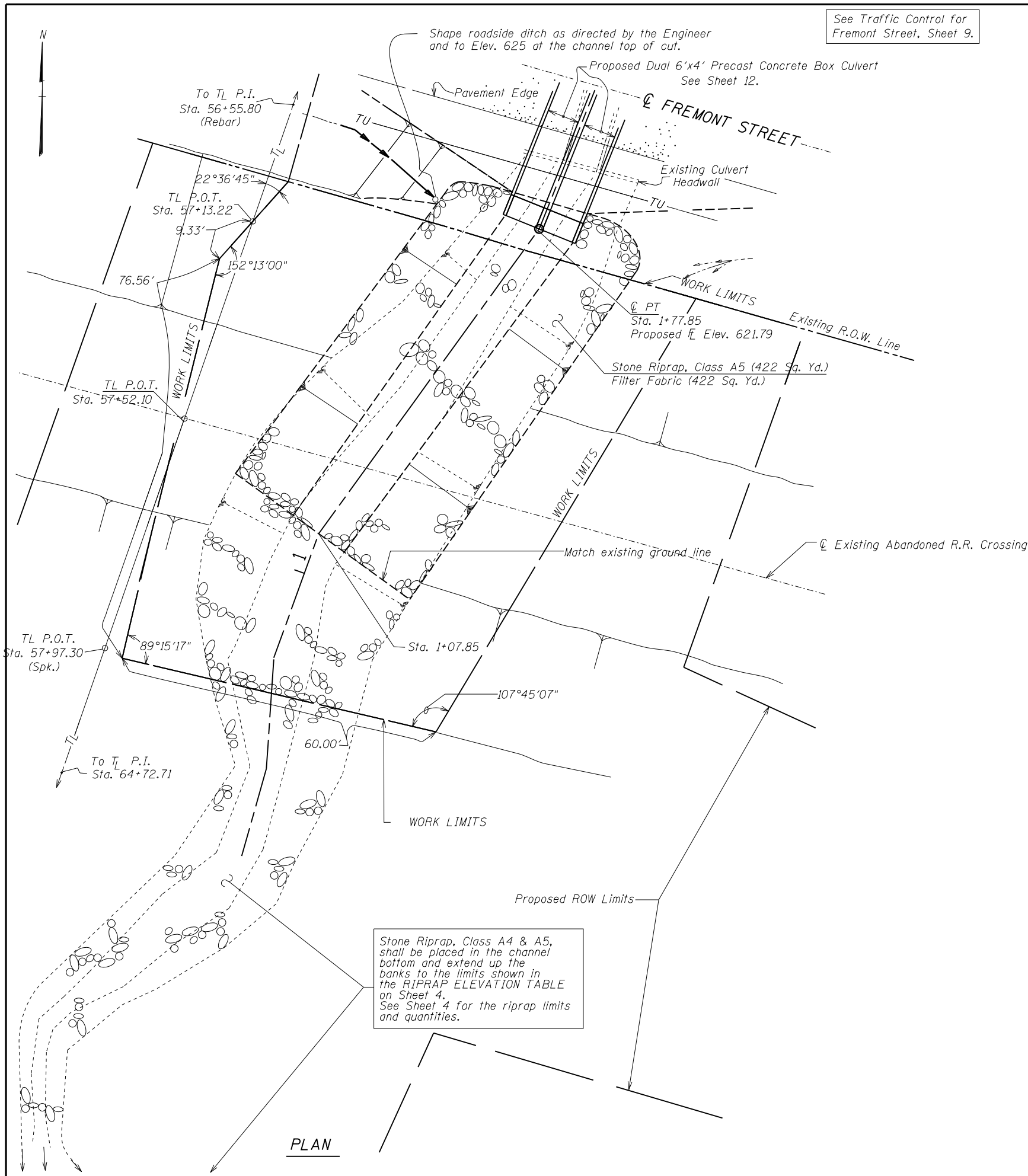
***BILL OF MATERIAL**

CLASS C PATCHES, TYPE 4, 12 INCH	SQ YD	55
REMOVAL OF EXISTING STRUCTURES NO. 2	EACH	1
PRECAST CONCRETE BOX CULVERTS 6'X4'	FOOT	90
BOX CULVERT END SECTIONS, CULVERT NO. 2	EACH	4
CHANNEL EXCAVATION	CU YD	10
TOPSOIL EXCAVATION AND PLACEMENT	CU YD	18
CONTROLLED LOW STRENGTH MATERIAL	CU YD	30
SEEDING, MULCHING AND FERTILIZING	ACRE	0.09
TEMPORARY EROSION CONTROL SEEDING	POUND	9
STONE RIPRAP, CLASS A3	SQ YD	85
STONE RIPRAP, CLASS A5	SQ YD	33
FILTER FABRIC	SQ YD	33

*For work within WORK LIMITS, this sheet only.

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See Traffic Control for
Fremont Street, Sheet 9.



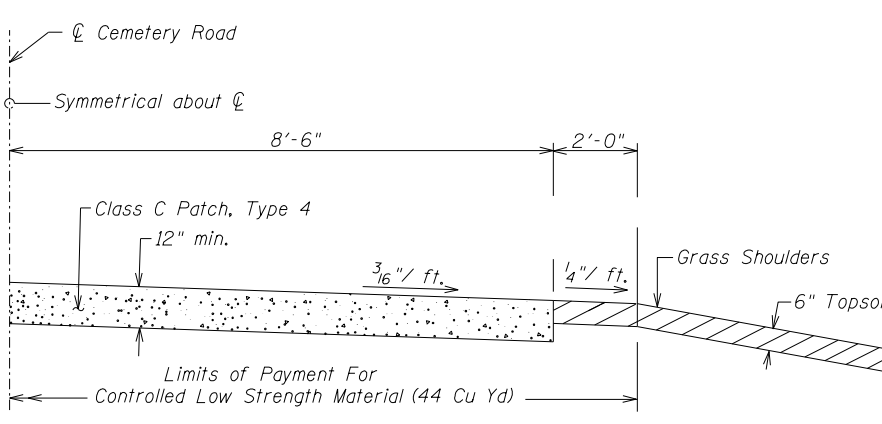
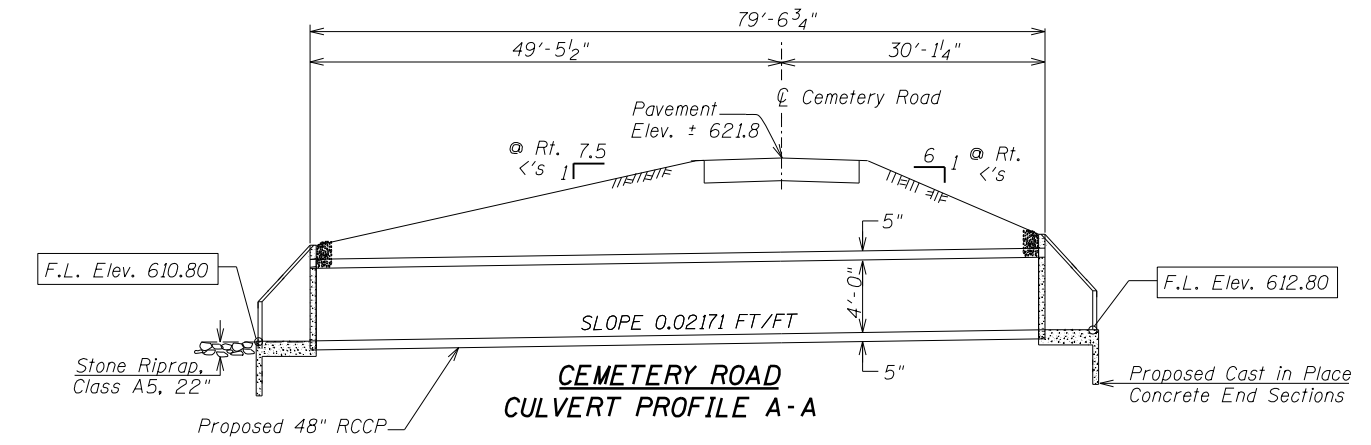
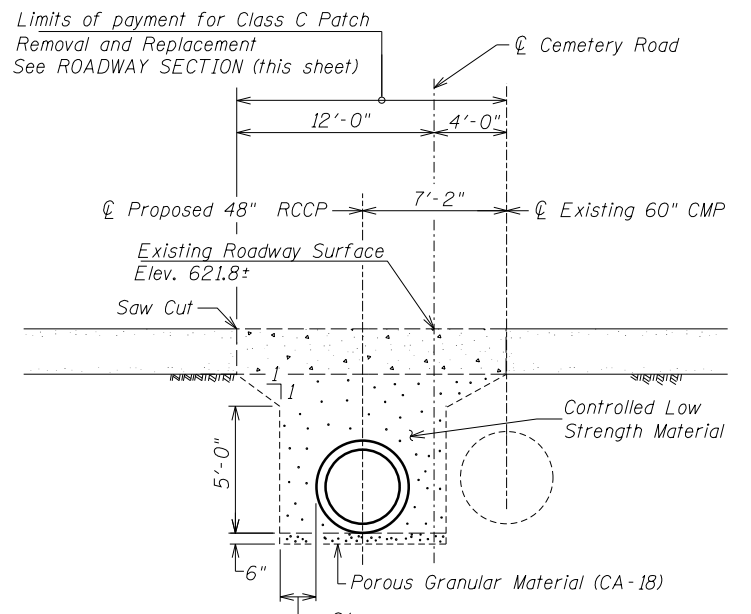
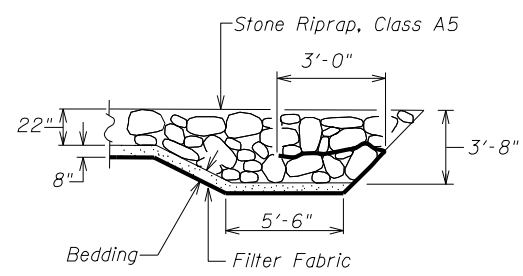
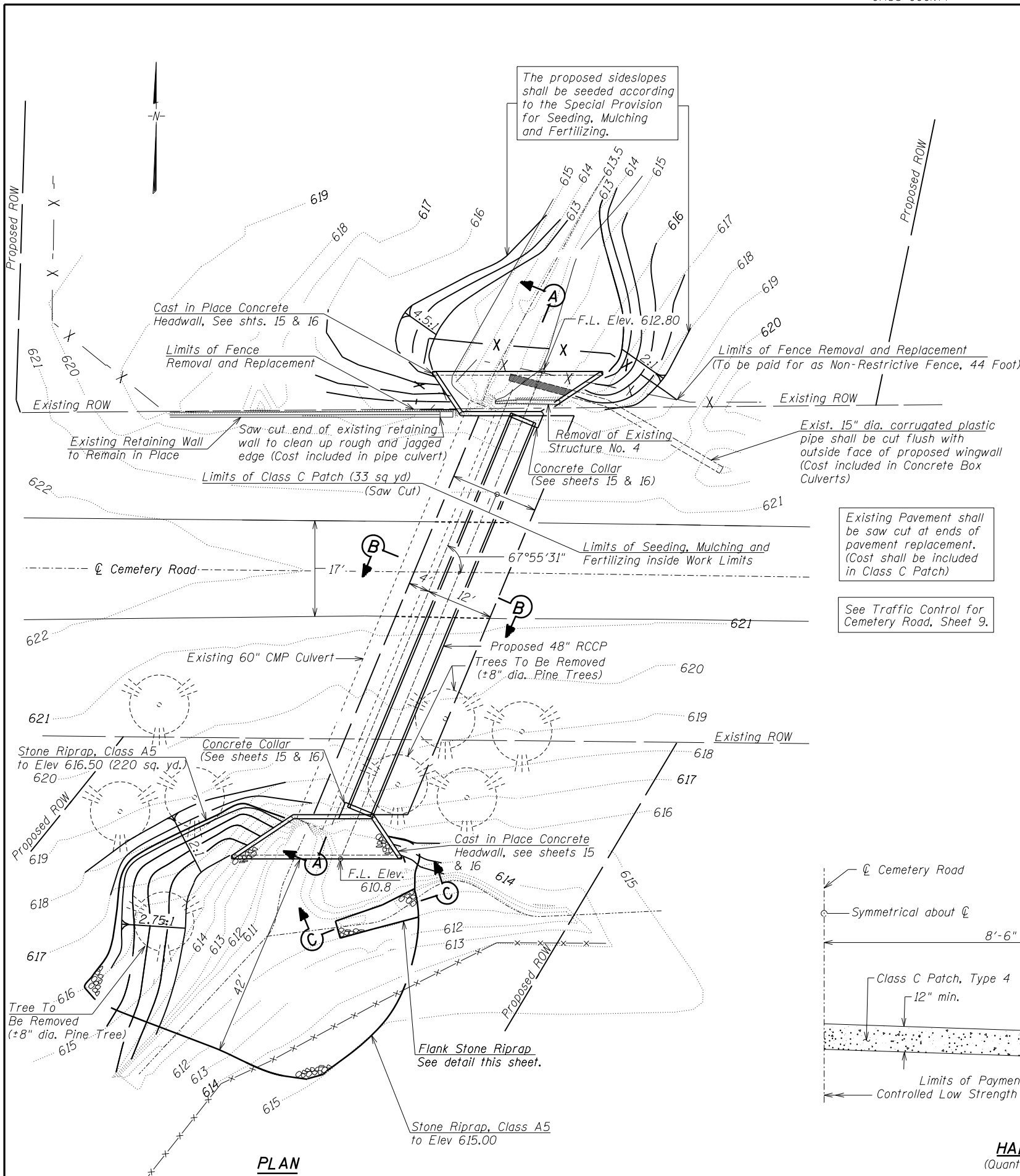
***BILL OF MATERIAL**

CHANNEL EXCAVATION	CU YD	82
SEEDING, MULCHING AND FERTILIZING	ACRE	0.07
TEMPORARY EROSION CONTROL SEEDING	POUND	7
STONE RIPRAP, CLASS A5	SQ YD	422
FILTER FABRIC	SQ YD	422

* For work within WORK LIMITS, this sheet only.

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PLAN

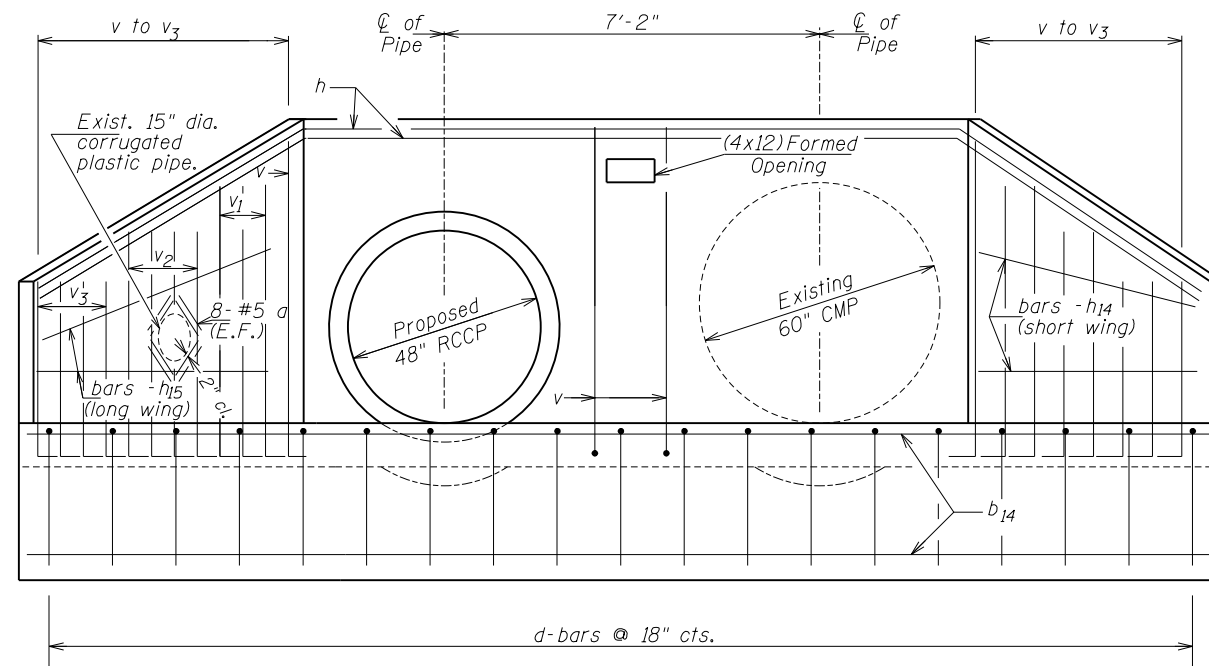


BILL OF MATERIAL

Item	Quantity	Unit
CHANNEL EXCAVATION	48	CU YD
CLASS C PATCHES, TYPE 4, 12 INCH	33	SQ YD
REMOVAL OF EXISTING STRUCTURES NO. 4	1	EACH
PIPE CULVERTS, CLASS A (RCCP), TYPE 2 48"	77	FOOT
TOPSOIL EXCAVATION AND PLACEMENT	28	CU YD
CONTROLLED LOW STRENGTH MATERIAL	73	CU YD
SEEDING, MULCHING AND FERTILIZING	0.03	ACRE
TEMPORARY EROSION CONTROL SEEDING	3	POUND
STONE RIPRAP, CLASS A5	220	SQ YD
FILTER FABRIC	220	SQ YD
NON-RESTRICTIVE FENCE	44	FOOT
TREE REMOVAL (6 TO 15 UNITS DIAMETER)	24	UNIT

Note: The finished surface of the Class C Patch shall match the existing pavement surface

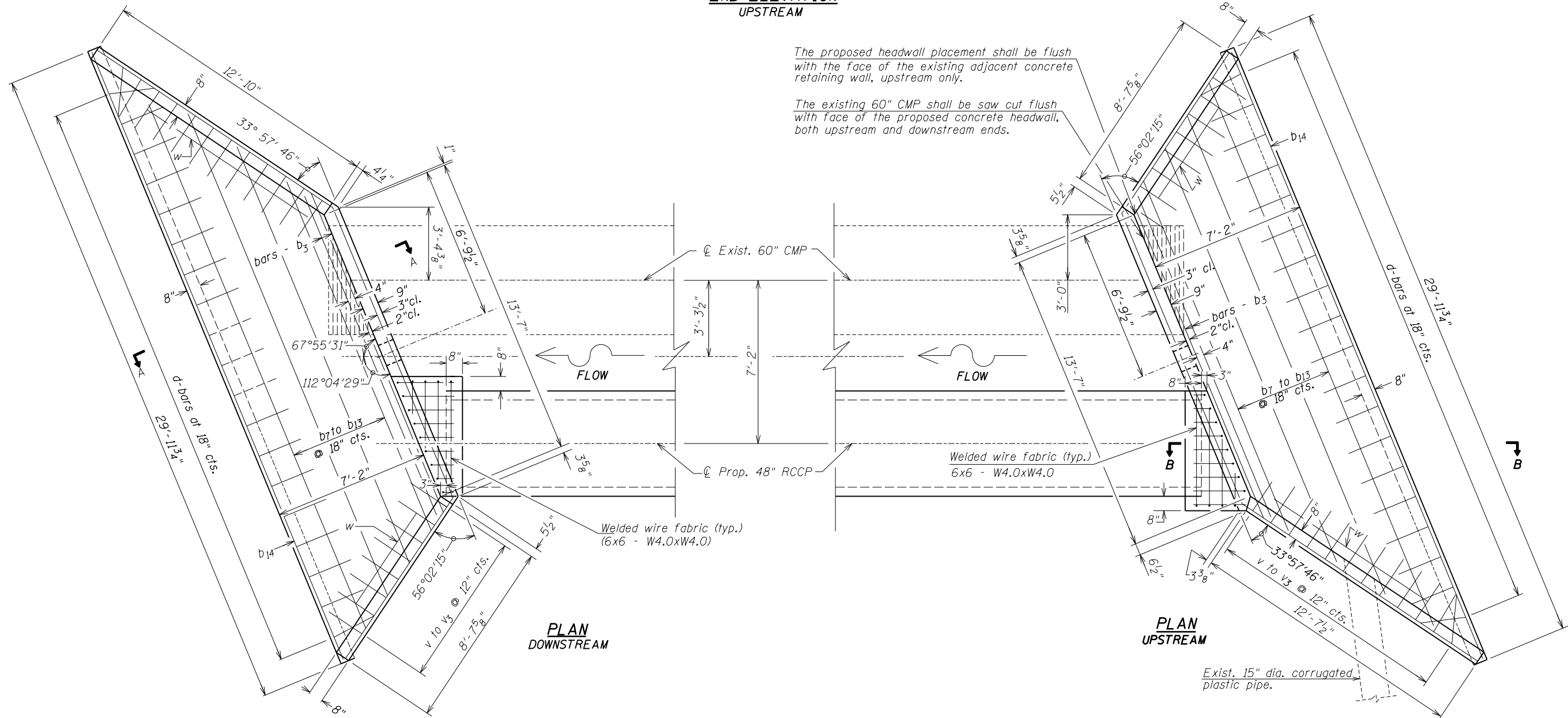
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**END ELEVATION
UPSTREAM**

The proposed headwall placement shall be flush with the face of the existing adjacent concrete retaining wall, upstream only.

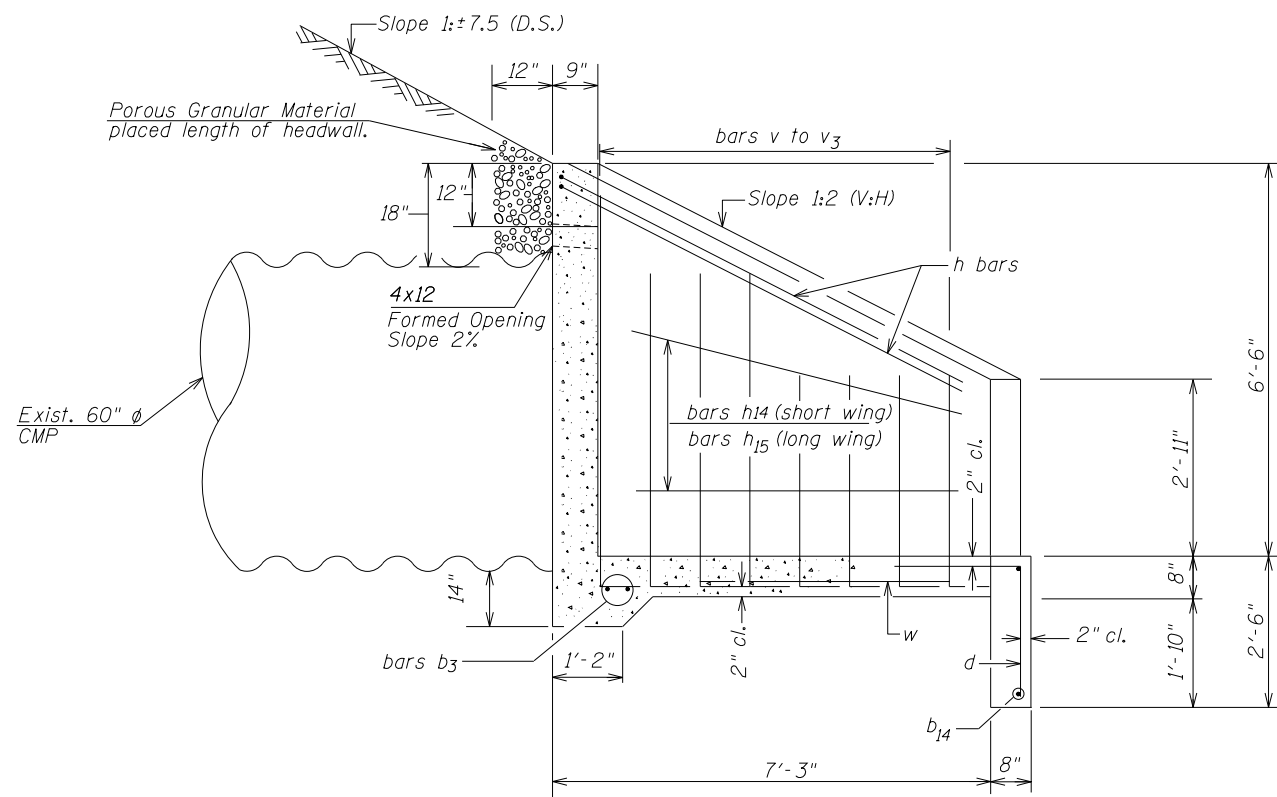
The existing 60" CMP shall be saw cut flush with face of the proposed concrete headwall, both upstream and downstream ends.



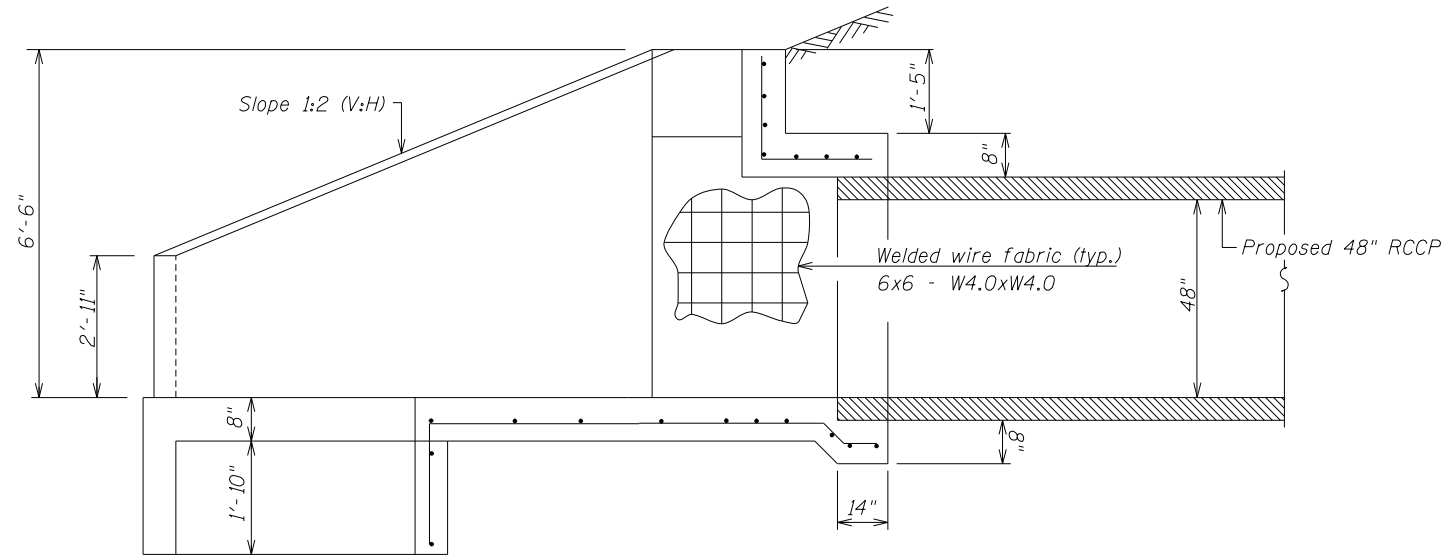
**PLAN
DOWNSTREAM**

**PLAN
UPSTREAM**

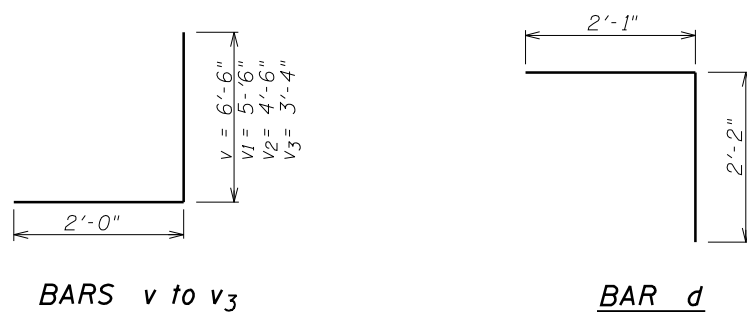
Exist. 15" dia. corrugated plastic pipe.



SECTION A-A

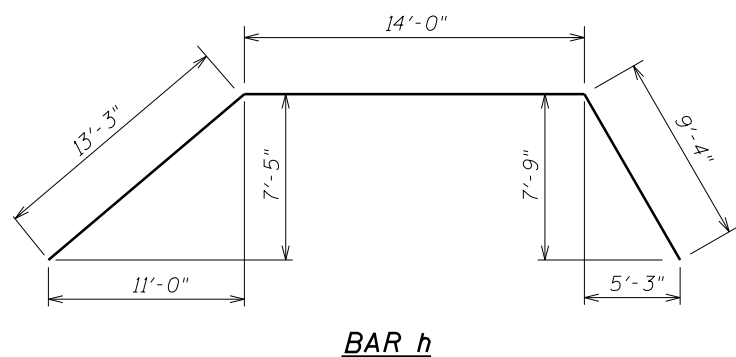


SECTION B-B



BARS v to v3

BAR d



BAR h

GENERAL NOTES

All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H).

All dimensions are in inches unless otherwise shown.

All exposed edges of concrete shall be beveled $\frac{3}{4}$ ".

Class SI Concrete shall be used throughout.

Reinforcement Bars shall conform to the requirements of A.A.S.H.T.O. M-31, or M-322, Grade 60.

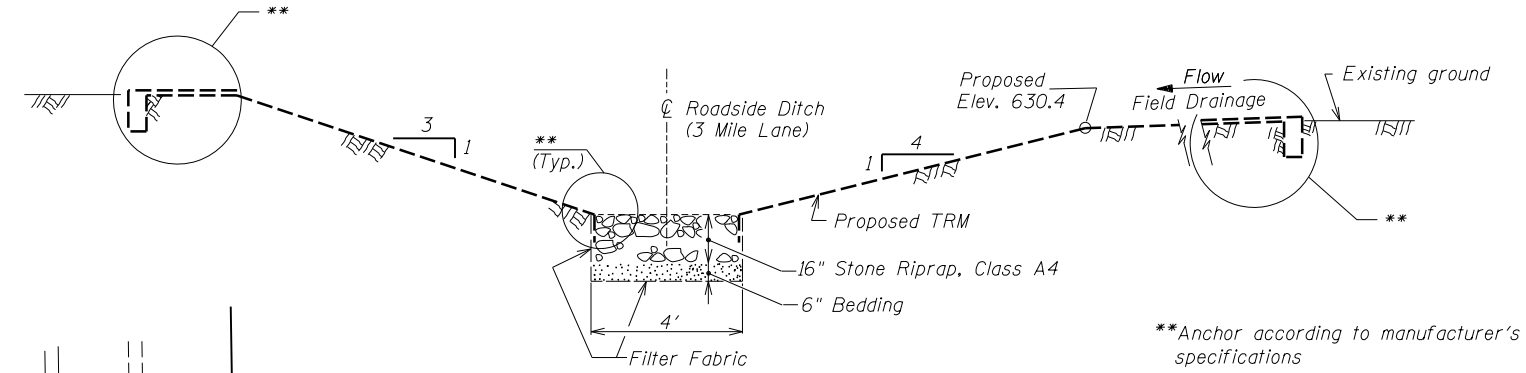
***BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a	16	#5	1'-6"	
b3	4	#5	15'-3"	
b7	2	#4	17'-2"	
b9	2	#5	20'-5"	
b12	2	#4	23'-8"	
b13	2	#4	26'-11"	
b14	4	#4	29'-6"	
d	38	#4	4'-3"	
h	4	#5	36'-7"	
h14	4	#4	8'-3"	
h15	4	#4	12'-6"	
v	12	#4	8'-6"	
v1	10	#4	7'-6"	
v2	12	#4	6'-6"	
v3	14	#4	5'-4"	
w	4	#4	4'-0"	

REINFORCEMENT BARS, EPOXY COATED	POUND	**907
CONCRETE BOX CULVERTS	CU YD	23.9

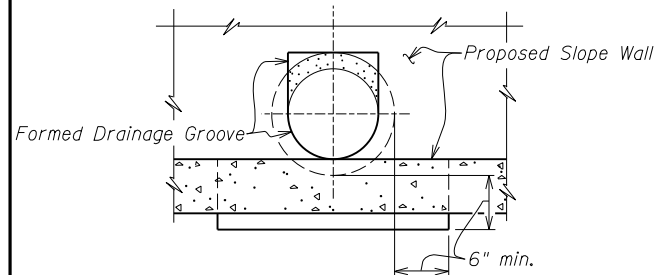
* Bill of Material accounts for both End Sections.

** 57 lbs. of Welded Wire Fabric is included in this quantity.

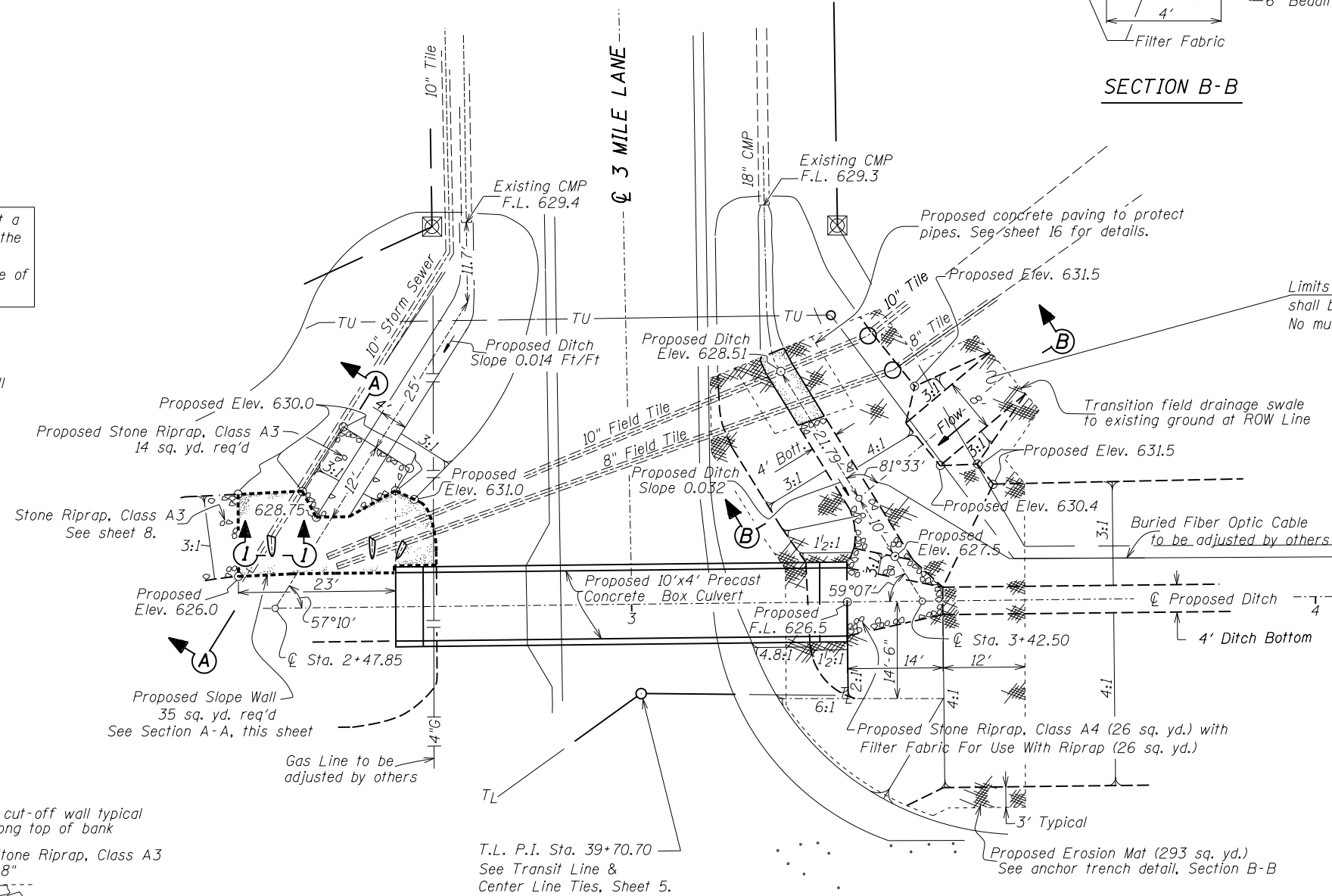


SECTION B-B

The existing storm sewers shall be cut off vertically, and at a miter as shown on the plan, at the point where the top of the pipe intersects the top surface of the proposed slope wall. A smooth drainage groove shall then be formed to the inside of the pipe, all costs included in Slope Wall 6 Inch.

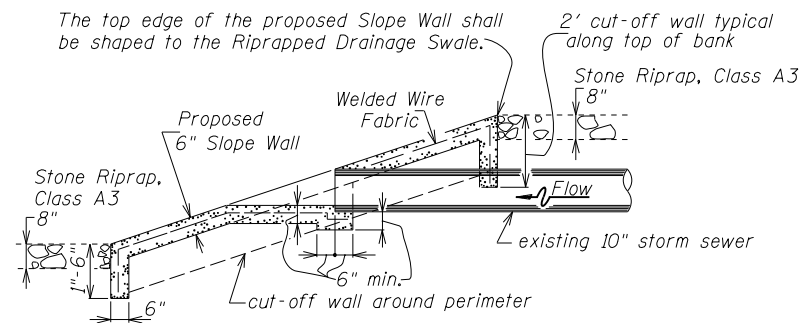


ELEVATION 1-1
END OF CUT OFF PIPE
(TYP. ALL PIPES THROUGH SLOPE WALL)



PLAN

Limits of Seeding, Mulching and Fertilizing (0.06 Acre) shall be same as Turf Reinforcement Mat boundaries. No mulching will be required.



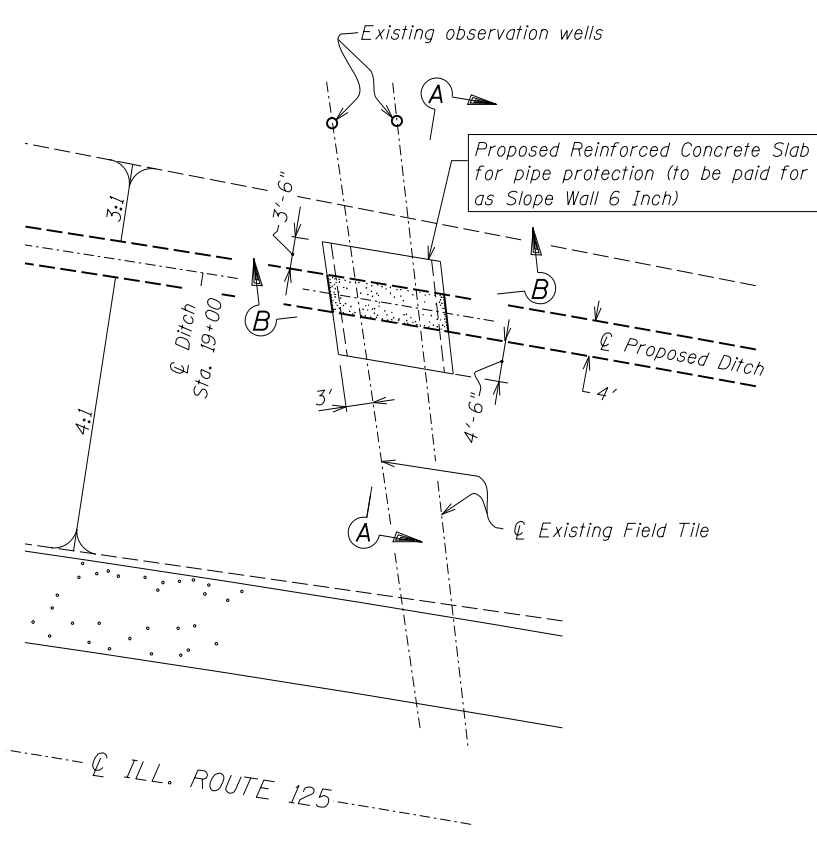
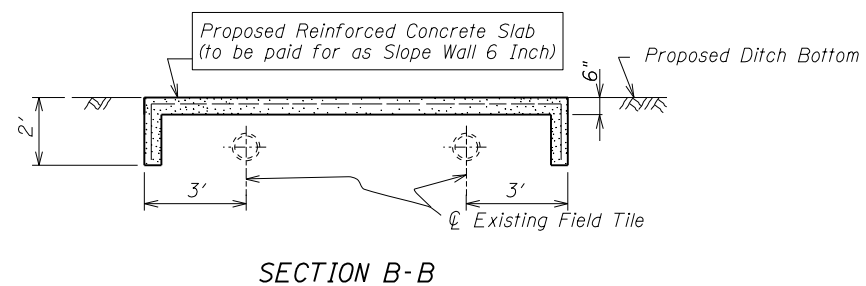
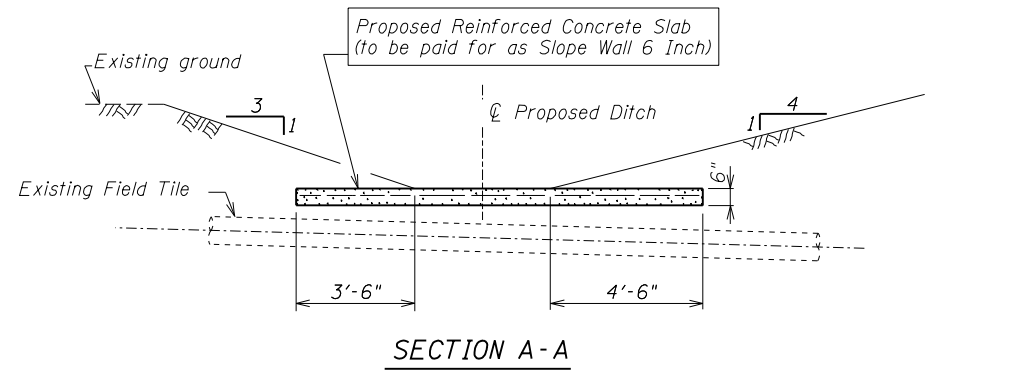
SECTION A-A
SLOPE WALL DETAILS
(TYP. ALL PIPES THROUGH SLOPE WALL)

BILL OF MATERIAL

TURF REINFORCEMENT MAT	SQ YD	272
STONE RIPRAP, CLASS A3	SQ YD	14
STONE RIPRAP, CLASS A4	SQ YD	26
FILTER FABRIC	SQ YD	26
* SLOPE WALL 6 INCH	SQ YD	35
SEEDING, MULCHING AND FERTILIZING	ACRE	0.06

* Welded Wire Fabric shall be 6"x6" mesh, #4 gauge, 58 lbs. per 100 sq. ft., conforming to requirements of A.S.T.M A185. The cost of furnishing and placing the Welded Wire Fabric shall be included in the bid item Slope Wall 6 Inch.

Designed By TMM Checked By RLP
Drawn By SIM Checked By RLP



NOTE:
There are Field Tile requiring protection at several locations listed below. The Details shown here are typical for all locations. The reinforced concrete slabs shall be paid for as Slope Wall 6 Inch and shall be in accordance with Section 511 of the Std. Specifications.

Schedule of Field Tile to be Protected

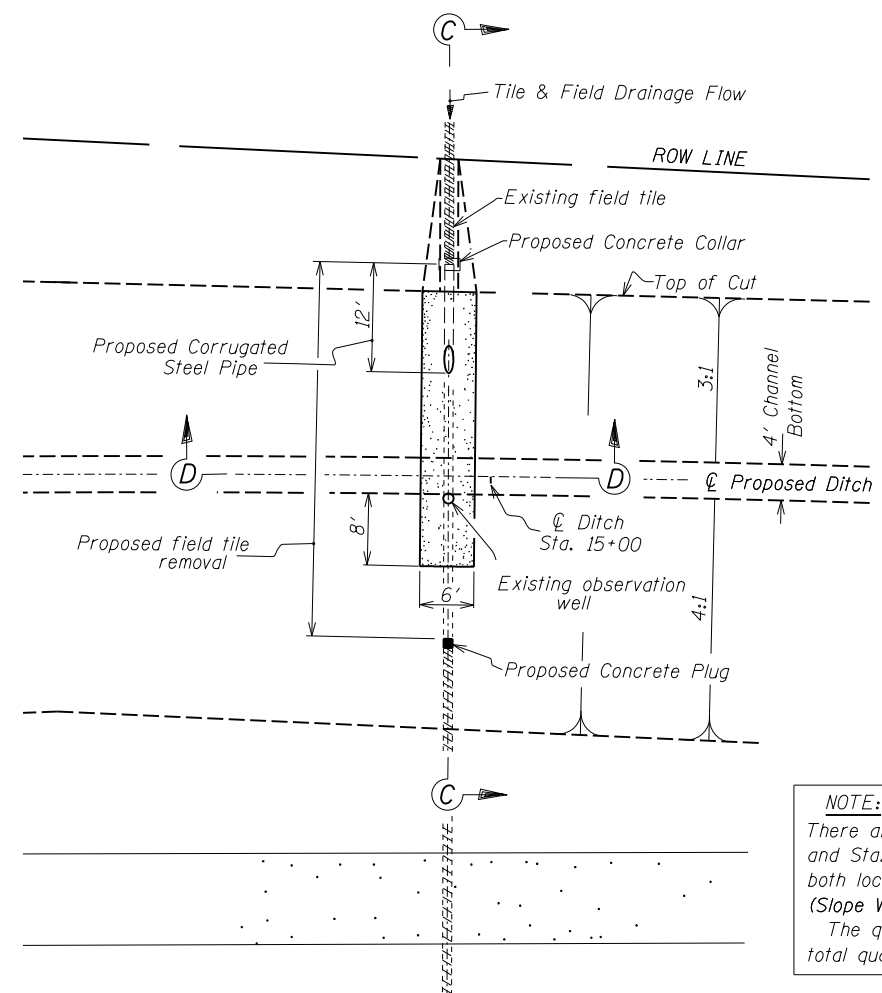
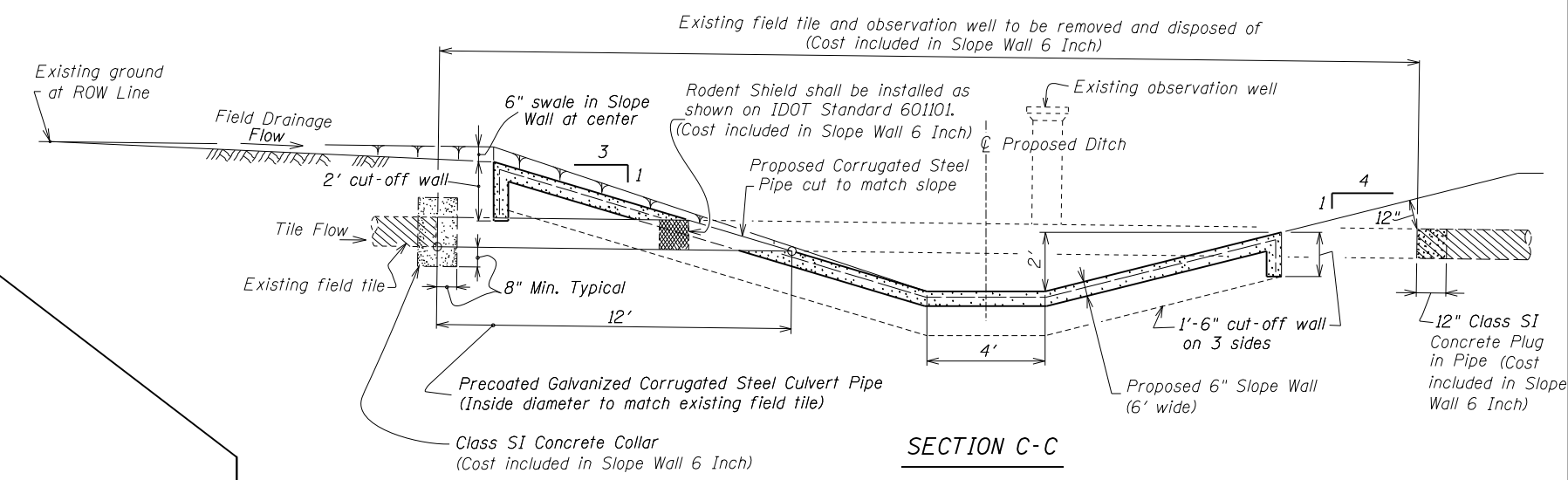
#1. 8" & 10" Field Tile, roadside ditch east of 3 Mile Lane See sheet 18. (16 sq. yd. R/C Slab required)
#2. Two Field Tile (size unknown), Proposed Channel Sta. 19+19 and 19+25 See sheet 6. (18 sq. yd. R/C Slab required)
#3. Field Tile (size unknown), Proposed Channel Sta. 21+40 See sheet 6. (8 sq. yd. R/C Slab required)

BILL OF MATERIAL

* SLOPE WALL 6 INCH	SQ YD	42
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* Welded Wire Fabric shall be 6"x6" mesh, #4 gauge, 58 lbs. per 100 sq. ft., conforming to requirements of A.S.T.M A185. The cost of furnishing and placing the Welded Wire Fabric shall be included in the bid item "Slope Wall 6 Inch".

DETAILS OF CONCRETE SLAB FOR PIPE PROTECTION



NOTE:
There are field tile intersecting the proposed channel at Sta. 14+95 and Sta. 16+30 (See sheet 6). The Details shown here are typical for both locations. (Slope Wall req'd at 14+95, 22 sq. yd.; and at 16+30, 21 sq. yd.) The quantities shown in the BILL OF MATERIAL (below) are the total quantities for both locations.

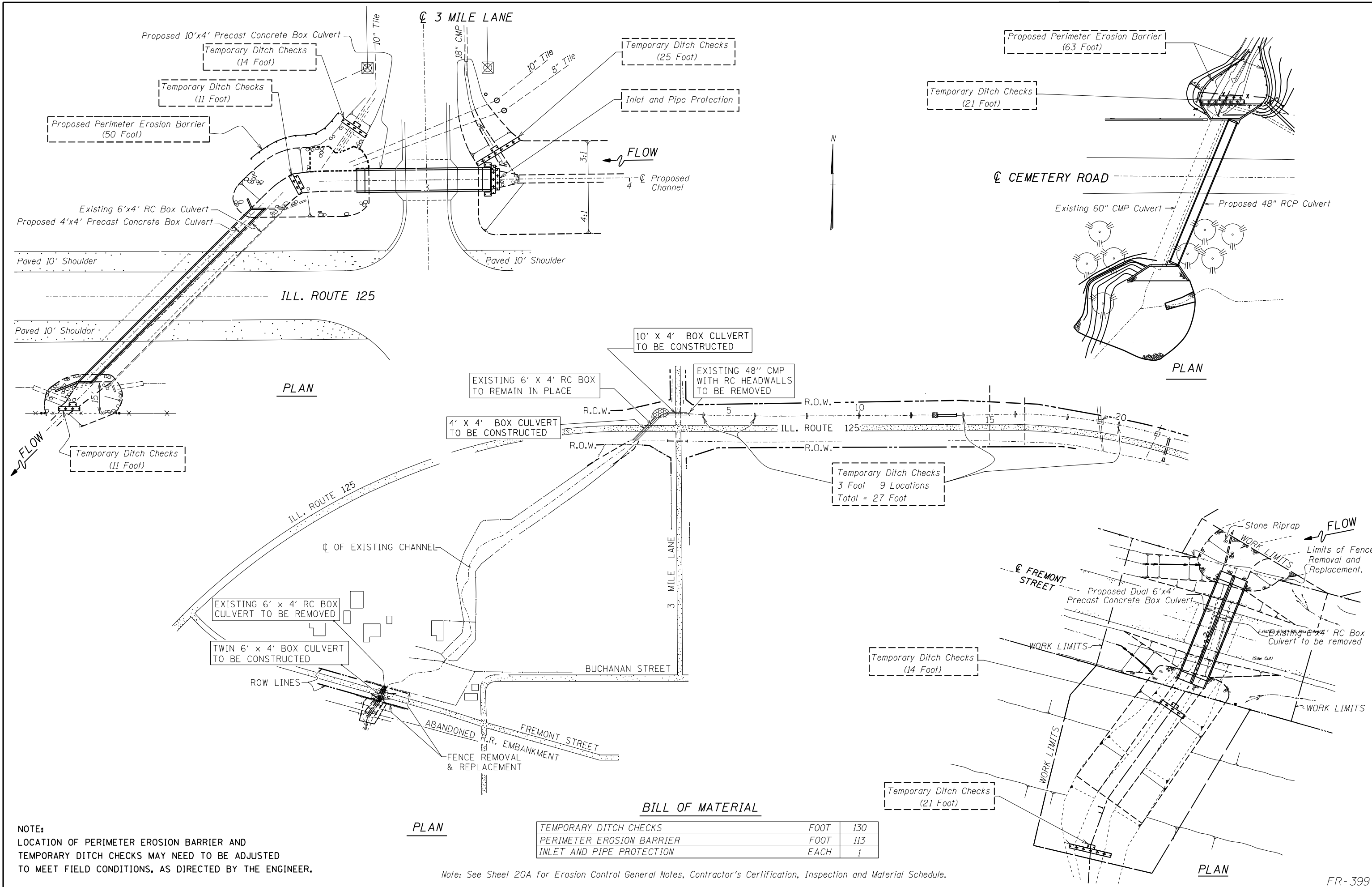
BILL OF MATERIAL

SLOPE WALL 6 INCH *	SQ YD	43
PIPE CULVERTS, CLASS D, TYPE 1 8" (PRECOATED GALVANIZED CORRUGATED STEEL PIPE)	FOOT	12
PIPE CULVERTS, CLASS D, TYPE 1 10" (PRECOATED GALVANIZED CORRUGATED STEEL PIPE)	FOOT	12

*Welded Wire Fabric shall be 6"x6" mesh, #4 gauge, 58 lbs. per 100 sq. ft., conforming to requirements of A.S.T.M A185. The cost of furnishing and placing the Welded Wire Fabric shall be included in the bid item "Slope Wall 6 Inch".

DETAILS OF SLOPE PROTECTION AT FIELD TILE - CHANNEL INTERSECTIONS

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 Drawn By SIM Checked By RLP
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 Designed By TMM
 Checked By RLP
 Drawn By SIM

NOTE:
 LOCATION OF PERIMETER EROSION BARRIER AND
 TEMPORARY DITCH CHECKS MAY NEED TO BE ADJUSTED
 TO MEET FIELD CONDITIONS, AS DIRECTED BY THE ENGINEER.

BILL OF MATERIAL

TEMPORARY DITCH CHECKS	FOOT	130
PERIMETER EROSION BARRIER	FOOT	113
INLET AND PIPE PROTECTION	EACH	1

Note: See Sheet 20A for Erosion Control General Notes, Contractor's Certification, Inspection and Material Schedule.

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Designed By RLP Checked By JUF
Drawn By JUF Checked By TMM

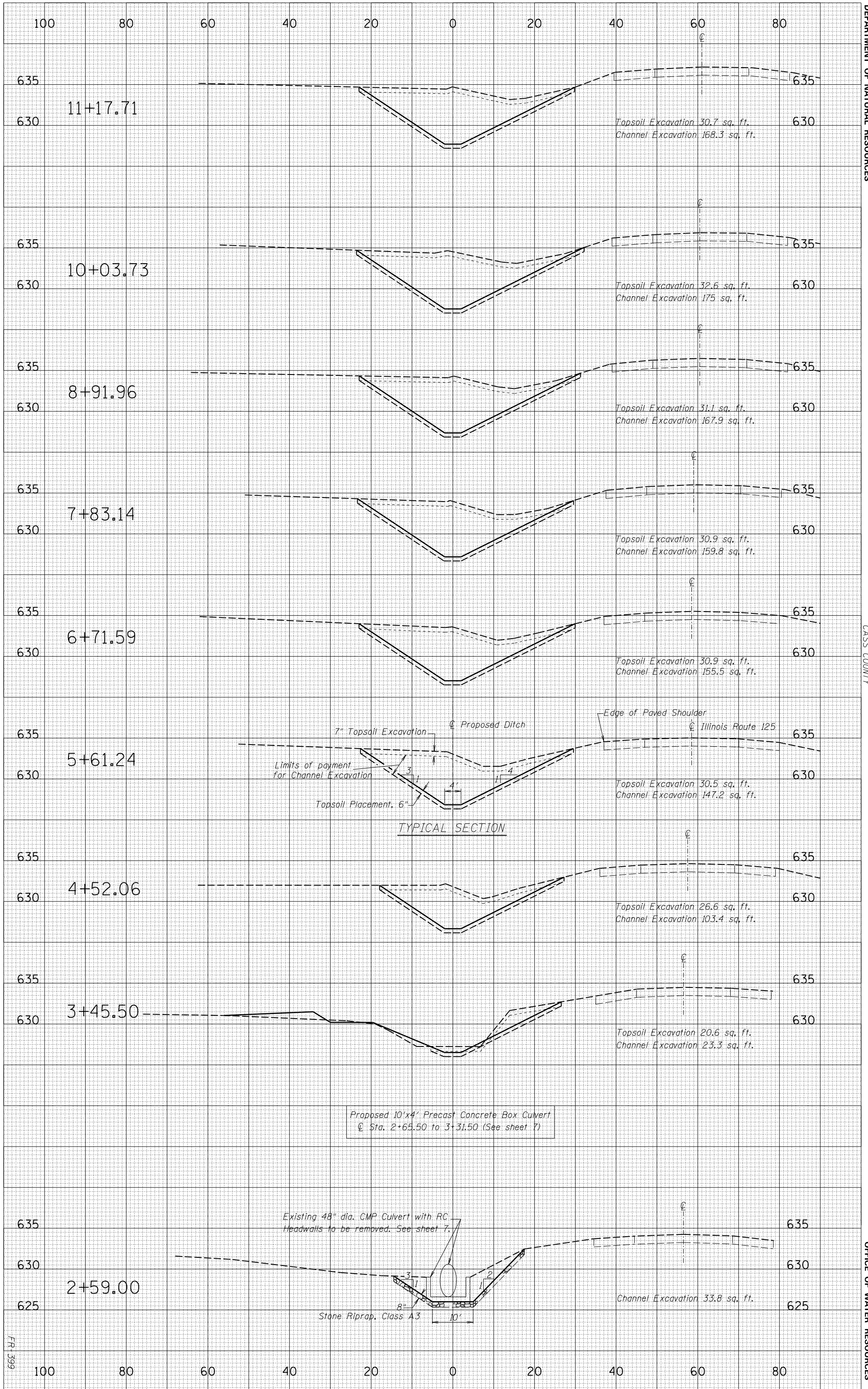
Notes:

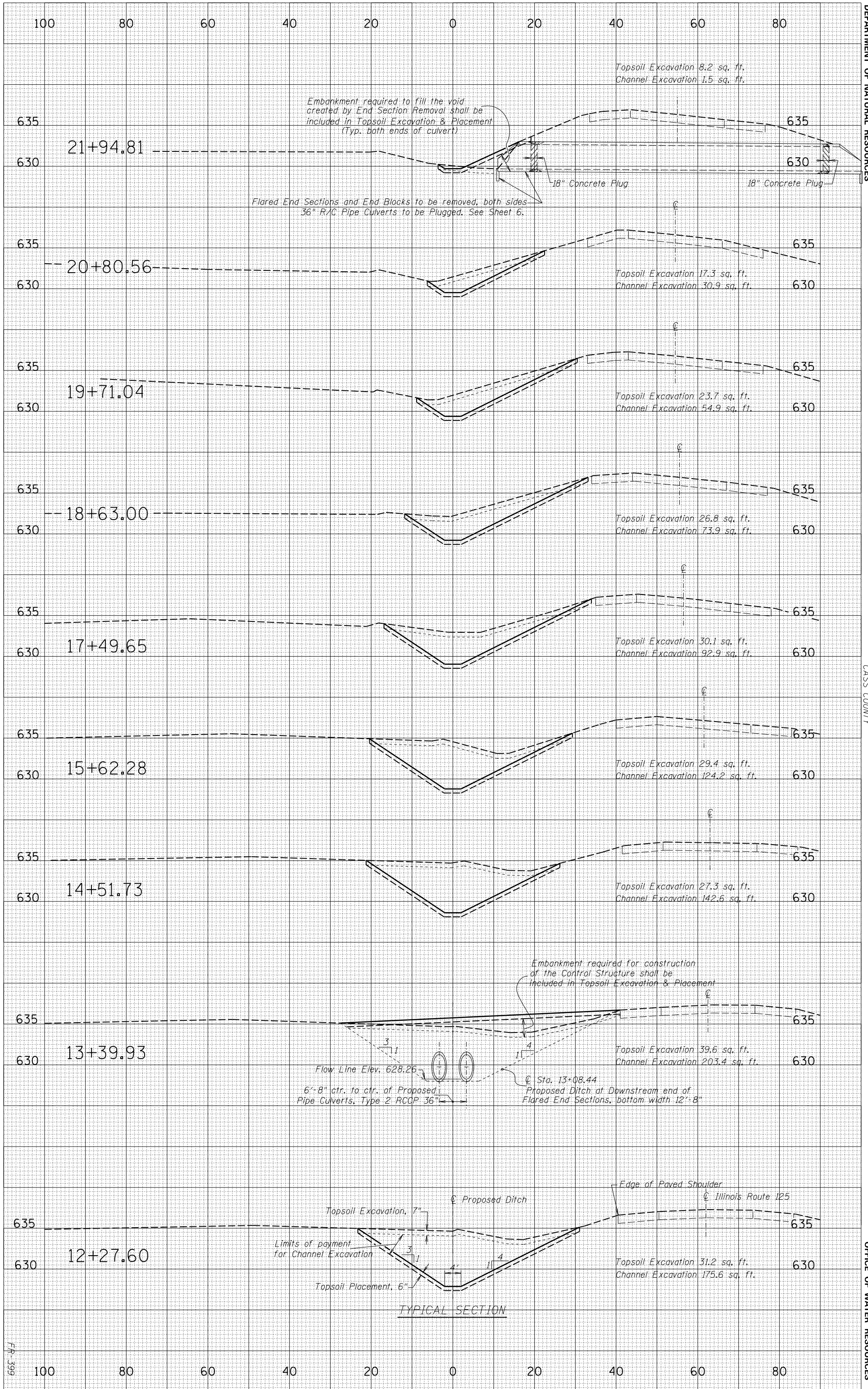
1. All erosion control items to be furnished and maintained by the Contractor for the entire duration of the project, as directed by the Engineer.
2. Unless otherwise indicated, all vegetative and structural erosion and sediment control practices shall be constructed according to minimum standards and specifications in the Illinois Urban Manual and the January 2012 IDOT Standard Specifications.
3. A copy of the approved Erosion and Sediment Control Plan shall be maintained on the site at all times.
4. Prior to commencing land-disturbing activities in areas other than indicated on these plans (including, but not limited to, additional phases of development and off site borrow or waste areas) a Supplementary Erosion Control Plan shall be submitted to the owner for review.
5. The Contractor is responsible for installation of any additional erosion control measures necessary to prevent erosion and sedimentation as determined by the Engineer.
6. During any dewatering operations, water will be pumped into sediment basins or silt traps. Dewatering directly into field tiles or storm water structures is prohibited.
7. All adjacent streets must be kept clear of debris, inspected daily and cleaned when necessary.
8. All erosion control measures must be inspected weekly and after each 1/2" rain event.
9. Mulch shall be installed on all slopes and in critical areas immediately upon final grading.
10. The priority shall be given to the completion and stabilization of the disturbed areas. Work in these areas shall not be prolonged in attempt that all final grading and stabilization can take place at one time.
11. Stockpiles of soil and other materials to remain in place more than three (3) days shall be furnished with erosion and sediment control measures (I.E. perimeter erosion barrier). Stockpiles to remain in place for 21 days or more shall receive temporary seeding.
12. In areas where work is complete, permanent stabilization shall occur within 7 days of completion, and in areas where work has temporarily ceased for 21 days or more, temporary stabilization shall occur by the 14th day after work has ceased.
13. Completed slopes shall be seeded and mulched as the excavation proceeds to the extent considered desirable and practical. Permanent seeding shall be used whenever possible. Under no circumstances shall the contractor prolong final grading and shaping so that the entire project can be permanently seeded at one time.
14. The condition of the construction site for winter shutdown shall be addressed early in the fall growing season so that slopes and other bare earth areas may be stabilized with temporary and/or permanent vegetative cover for proper erosion and sediment control. All open areas that are to remain idle throughout the winter shall receive temporary erosion control measures including temporary seeding, mulching and/or erosion control blanket prior to the end of the fall growing season. The areas to be worked beyond the end of the growing season must incorporate soil stabilization measures that do not rely on vegetative cover such as erosion control blanket and heavy mulching.
15. No work shall be performed in flowing water, work in and near the critical areas should be isolated from concentrated flows or stream flow. The stream banks should be stabilized at the end of each day. Once work in this area begins, priority shall be given to the completion of the work and final stabilization of all disturbed areas.

CONTRACTOR CERTIFICATION	
"I certify under penalty of law that I understand the terms and conditions of the General National Pollutant Discharge Elimination System (NPDES) Permit (ILR10) that authorizes the storm water discharges associated with industrial activity from the construction site identified as part of this Certification."	
GENERAL CONTRACTOR	
Signature _____	Title _____
Company _____	Date _____
SUB-CONTRACTOR Responsible for: _____	
Signature _____	Title _____
Company _____	Date _____
WITNESSED BY OWNER	
Signature _____	Title _____
Company _____	Date _____

INSPECTION AND MAINTENANCE SCHEDULE

ACTIVITY	RESPONSIBLE PARTY	DURATION
Stabilization during construction maintenance	Contractor	Weekly and after every 1/2" of rainfall
Stabilization during construction-observation	Engineer	Weekly and after every 1/2" of rainfall
Vegetation maintenance	Contractor	Completion of Contract
Vegetation and stabilization maintenance	Village of Ashland	Ongoing after construction completion





ROADSIDE DITCH CROSS SECTIONS (ALONG ILL. RTE. 125)

