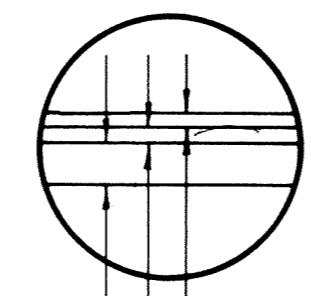


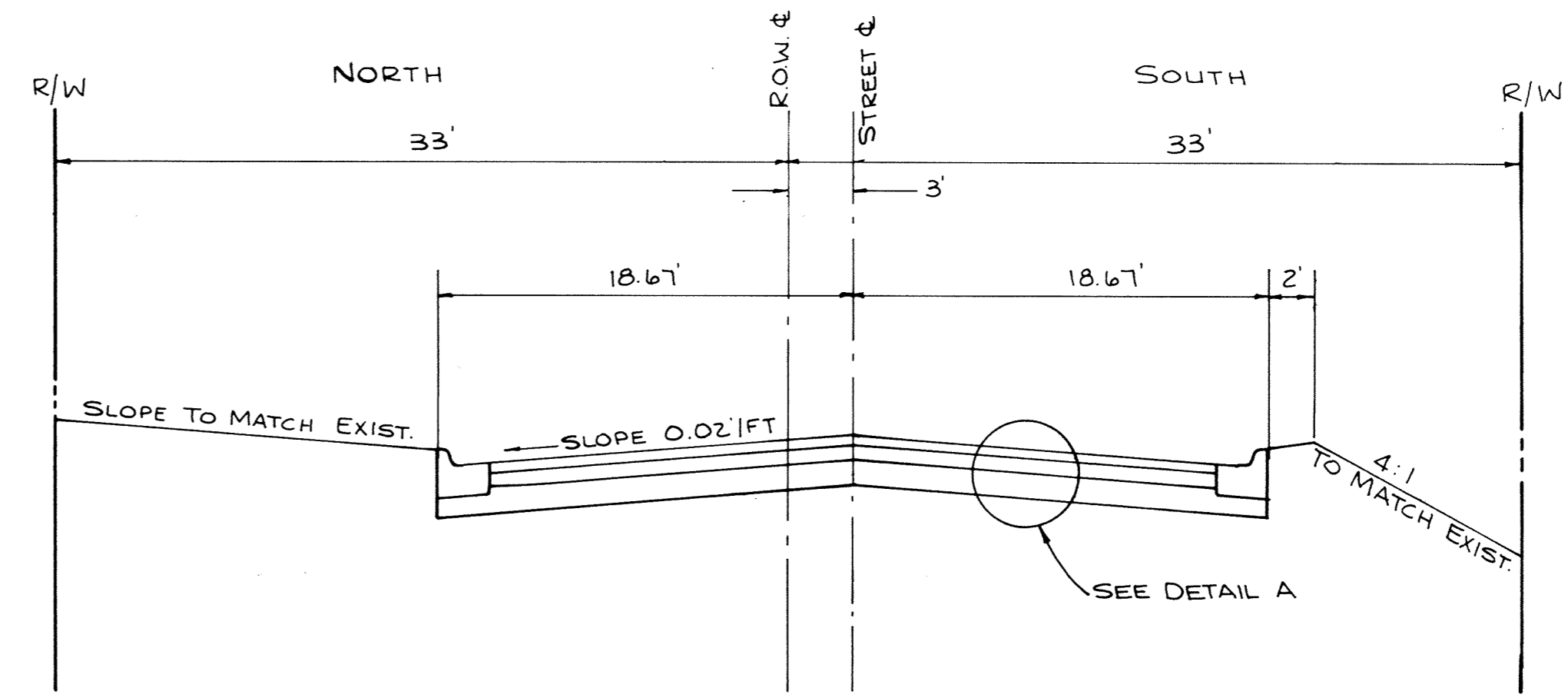
STATEMENT OF ESTIMATED QUANTITIES			
SPEC. REF.	ITEM	UNIT	QUAN
STREET CONSTRUCTION			
2104.503	Remove Existing Bituminous Pavement	Sq.Yds.	19,200
2104.501	Remove Existing Concrete Curb and Gutter	Lin.Ft.	1,350
2104.503	Remove Existing Concrete Sidewalk	Sq.Ft.	800
2104.521	Salvage Existing 18" CMP Culvert	Lin.Ft.	52
2104.521	Salvage Existing 15" CMP Culvert	Lin.Ft.	275
2104.521	Salvage Existing 12" CMP Culvert	Lin.Ft.	54
2105.501	Common Excavation (EV)	Cu.Yds.	7,100
2101.501	Clearing	Trees	6
2531.502	Concrete Curb and Gutter (B618)	Lin.Ft.	9,200
Specification	Concrete Valley Gutter	Sq.Ft.	1,180
Specification	Triangular Valley Gutter Section	Each	22
Specification	Concrete Pedestrian Ramp	Each	19
Specification	Concrete Driveway Apron	Sq.Ft.	860
Specification	Water (Dust Control)	M/Gal.	500
2211.501	Aggregate Base (Class V)	Ton	8,100
2331.508	Bituminous Surfacing (2331)	Ton	2,400
2441.508	Bituminous Surfacing (2341)	Ton	1,850
2331.504	Bituminous Material for Mixture (2331)	Ton	120
2341.504	Bituminous Material for Mixture (2341)	Ton	112
2357.502	Bituminous Material for Tack Coat	Gal.	1,080
Specification	Bituminous Driveway Pavement	Sq.Yds.	1,020
Specification	Concrete Driveway Pavement	Sq.Yds.	200
Specification	4" Concrete Sidewalk	Sq.Ft.	200
Specification	4" Yellow Pavement Line	Lin.Ft.	4,500
Specification	4" White Pavement Line	Lin.Ft.	1,200
Specification	White Pavement Arrows and Words	Sq.Ft.	640
Specification	Reflectorized Pavement Marking Beads	Lbs.	32
Specification	Sign Panels	Sq.Ft.	181
Specification	Remove & Relocate Existing Signs	Each	20
2575.501	Seeding	Sq.Yds.	2,500
2575.505	Sodding	Sq.Yds.	8,000
Specification	Topsoil 4"	Sq.Yds.	10,000
Specification	Remove & Relocate Hydrant & Valve	Each	1
Specification	Adjust Hydrant & Valve	Each	3
Specification	Adjust Existing Frame and Ring Casting	Each	4
Specification	Adjust Existing Valve Box	Each	7
Specification	Reconstruct Existing Manhole	L.F.	10
STORM SEWER			
2503.541	12" RC Pipe Class III	Lin.Ft.	25
2503.541	18" RC Pipe Class III	Lin.Ft.	225
2503.541	24" RC Pipe Class III	Lin.Ft.	46
2503.541	30" RC Pipe Class III	Lin.Ft.	607
2503.541	36" RC Pipe Class III	Lin.Ft.	425
2503.541	42" RC Pipe Class III	Lin.Ft.	100
2503.541	21" RC Pipe Class III	Lin.Ft.	500
2503.541	27" RC Pipe Class III	Lin.Ft.	1,031
Specification	30" RC FES	Each	1
Specification	42" RC FES	Each	1
2506.508	48" Manhole	Each	10
2506.508	54" Manhole	Each	3
2506.508	60" Manhole	Each	1
2506.508	90" Manhole	Each	1
2506.509	Catch Basin	Each	7
Specification	Extra Depth Manhole 54"	Lin.Ft.	1
Specification	Extra Depth Manhole 60"	Lin.Ft.	5
Specification	Connect to Existing Manhole	Each	1
2311.503	Grouted Rip Rap Class C	Cu.Yds.	19.7
Specification	Bituminous Spillway	Each	2
Specification	Lower Existing Watermain	Lin.Ft.	50
Specification	Ditch Construction	Lin.Ft.	300
Specification	Pond Construction	Cu.Yd.	10,000



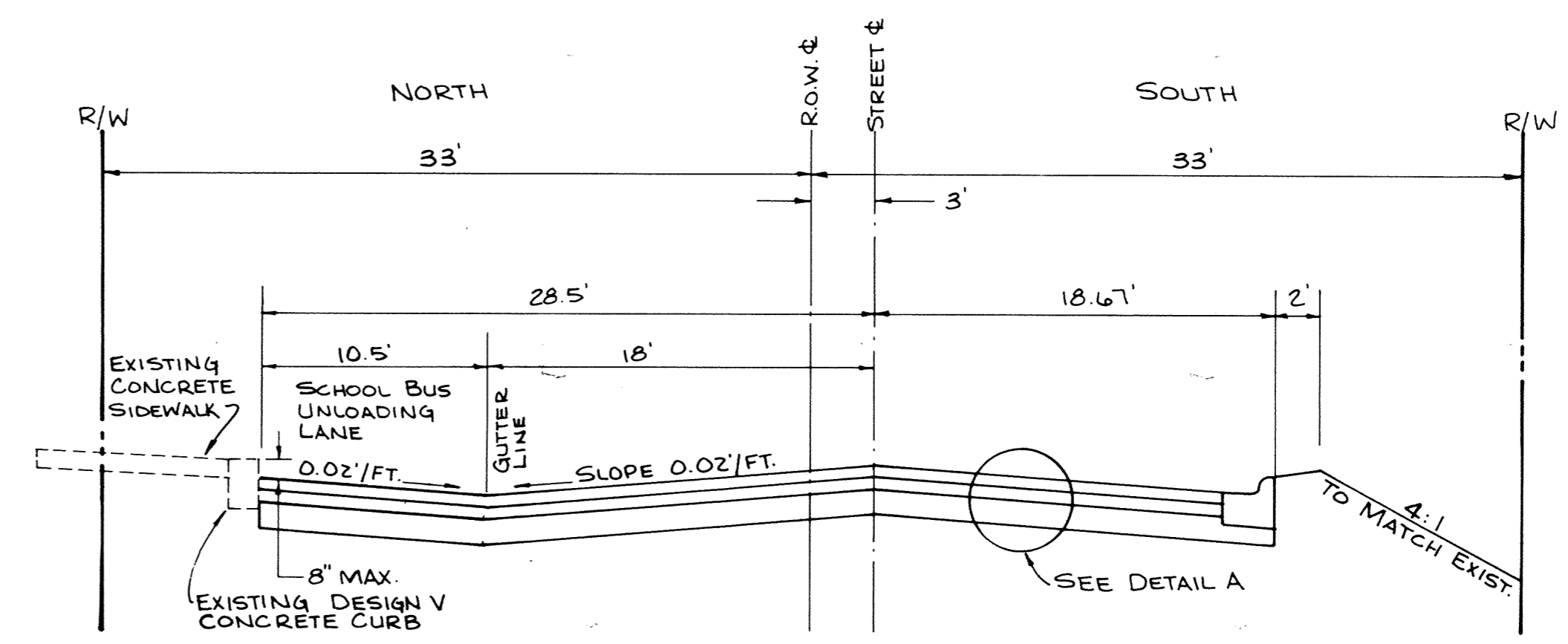
1 1/2" BITUMINOUS WEARING COURSE (2341)
2" BITUMINOUS BASE COURSE (2331)
7" CLASS 5 GRAVEL

DETAIL A
N.T.S.

NOTE: ALL PROPOSED CONCRETE CURB & GUTTER SHALL BE B-618 AS PER STD. PLT. 5102



TYPICAL STREET SECTION
N.T.S.



TYPICAL STREET SECTION
STA. 20+85 TO STA. 22+54
N.T.S.

GENERAL STREET CONSTRUCTION NOTES

- REMOVE ALL EXISTING BITUMINOUS SURFACE AND CONC. CURB AND GUTTER WITHIN THE CONSTRUCTION LIMITS.
- REMOVE ALL EXISTING CMP WITHIN THE CONSTRUCTION LIMITS.
- ALL RADII DIMENSIONS SHOWN REFER TO FACE OF CURB.
- ALL PROPOSED DRIVEWAY APRON RADII SHALL BE 5' UNLESS SHOWN OTHERWISE.
- ALL SCHOOL PROPERTY ENTRANCE PROPOSED CURB RADII SHALL BE 20' UNLESS SHOWN OTHERWISE.
- ALL PLATTED STREET PROPOSED CURB RADII SHALL BE 15'.
- ALL PROPOSED DRIVEWAY APRON LOCATIONS SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.
- ALL CONC. CURB ELEVATIONS SHOWN ARE TO TOP OF CURB UNLESS NOTED OTHERWISE.
- STRAIGHT LINE CUT, TACK, AND MATCH ALL CONNECTIONS TO EXISTING BITUMINOUS.
- ADJUST ALL EXISTING MANHOLE CASTINGS AND WATER VALVES WITHIN THE CONSTRUCTION LIMITS TO 0.05' BELOW FINISHED GRADE. PROPOSED ELEVATIONS ARE SHOWN ON PLAN ADJACENT TO STRUCTURE.
- SEE SHEETS 18 THRU 22 FOR SIGN REMOVAL & RELOCATION.

STREET CONSTRUCTION LEGEND

- (A) REMOVE EXISTING BITUMINOUS, CONC. SIDEWALK, AND CONC. CURB AND GUTTER NECESSARY TO CONSTRUCT CONC. PEDESTRIAN RAMP AND B-618 CONC. CURB AND GUTTER AS SHOWN. REPLACE BITUMINOUS WITH 2" (2341) BITUMINOUS WEARING COURSE AND 4" CL. 5 GRAVEL BASE TO MATCH PROPOSED GRADES.
- (B) REMOVE PORTION OF EXISTING BITUMINOUS DRIVEWAY NECESSARY TO CONSTRUCT APRON AND MATCH GRADES AS SHOWN ON PLANS AND STD. PLT. #5302.
- (C) INSTALL CONC. VALLEY GUTTER WITH TRIANGULAR GUTTER SECTIONS AS SHOWN.
- (D) REMOVE EXISTING CONC. SIDEWALK AND INSTALL CONC. PEDESTRIAN RAMP.
- (E) END PROPOSED B-618 CONC. CURB AND GUTTER WITH A 2' TAPER SECTION.
- (F) REMOVE EXISTING BITUMINOUS AND CONC. CURB AND GUTTER NECESSARY TO CONSTRUCT B-618 CONC. CURB & GUTTER, REPLACE BITUMINOUS WITH 2" (2341) BITUMINOUS WEARING COURSE AND 4" CL. 5 GRAVEL BASE TO MATCH PROPOSED GRADES.
- (G) REMOVE AND DELIVER MANHOLE COVERS AND CASTINGS AND ABANDON EXISTING MANHOLE STRUCTURE AS DIRECTED BY THE ENGINEER IN THE FIELD.
- (H) REMOVE PORTION OF EXISTING ITEM CONFLICTING WITH PROPOSED STREET CONSTRUCTION AND REPLACE AS NECESSARY TO MATCH PROPOSED GRADES.
- (I) REMOVE & RELOCATE EXISTING HYDRANT, VALVE, AND D.I.P. 5' BEHIND PROPOSED CONC. CURB.

AS-BUILT
DRAWN BY: *ARF* Date: 11-22-08
CHECKED BY:
INSPECTOR: *OC* Date:
DESIGN ENGR: *PRR* Date: 10/10/11
PARTY CHIEF: *DB* Date:

- CLEAR AND GRUB EXISTING TREE
- REMOVE AND RELOCATE EXISTING TREE
- PROPOSED B-618 CONC. CURB AND GUTTER
- FLOW ARROW

S.A.P. # 204-107-01

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under State of Minn. Statutes Sections 326.02 to 326.16.
John J. Coon
Date: 8/28/11 Minn. Reg. No. 10306

consulting engineers diversified inc.
p.o. box j. osseo, minnesota 55369 • (612) 425-2181

DESIGNED BY TAK TIM	CHECKED BY PRR	DRAWN BY DB
GRAPHIC SCALE HORIZ: NONE VERT: 1" = 10'	REVISIONS	

CITY OF ELK RIVER
SCHOOL STREET N.W. IMPROVEMENT PROJECT
STATEMENT OF EST. QUANT., NOTES & DETAILS
BK LOOSE PG LEAF DATE AUG 1981 SHEET 2 OF 27 SHEETS FILE NO ER3:02:5