JUNEAU CO.

6639-04-71

INDEX OF SHEETS

TOTAL SHEETS = 89

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

MAUSTON - NECEDAH ROAD

IH 90/94 TO STH 80

STH 58
JUNEAU COUNTY

STATE PROJECT NUMBER
6639-04-71

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
6639-04-71	MG 2001 271	1

CONSTRUCTION STAFF
(NAME/RESPONSIBILITIES)

PROJECT MANAGER: KEVIN GARRIGAN (WISDOT)

PROJECT ENGINEER: DAVE KATZNER (MSA)

AS BUILT PLAN

SUPERVISOR LARRY BUTSON

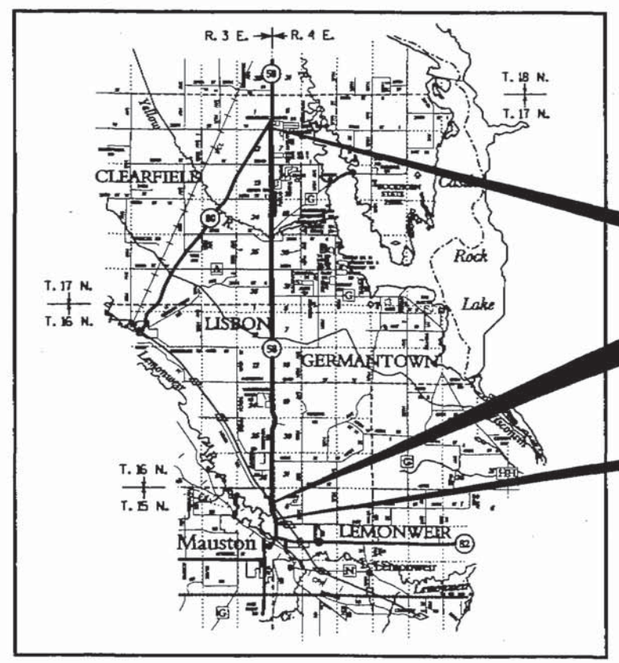
PROJECT MGR. KEVIN GARRIGAN

CONTRACTOR MATHY CONSTRUCTION

DATE STARTED 6/20/01

DATE COMPLETED 8/24/01

GN



END PRO
STA. 27+520

STRUCTURE B-29-38
EXCEPTION TO NET CENTERLINE LENGTH
STA. 9+735.969 TO STA. 9+826.156

BEGIN PROJECT
STA. ~~9+440~~ 9+386
X = 141 400.9040
Y = 49 151.0940

DESIGN DESIGNATION

		(IH90/94 - CTH G (North))	(CTH G (North) - STH 80)
A.D.T. (2000)	=	4,200	2,700
A.D.T. (2020)	=	6,300	4,000
D.H.V. (2020)	=	812	516
D.	=	60-40	60-40
T.	=	6.0%	6.0%
DESIGN SPEED	=	90 km/h	90 km/h
ESALS	=	832,200	540,200

CONVENTIONAL SYMBOLS

COUNTY LINE
CORPORATE LIMITS
PROPERTY LINE
LOT LINE
LIMITED EASEMENT
EXISTING RIGHT OF WAY
PROPOSED OR NEW R/W LINE
SURVEY LINE
SLOPE INTERCEPT
ORIGINAL GROUND
MARSH OR ROCK PROFILE
EXISTING CULVERT
PROPOSED CULVERT (Box or Pipe)
CULVERT (Profile View)

COMBUSTIBLE FLUIDS
UNDERGROUND UTILITIES
GAS
ELECTRIC
TELEPHONE OR TELEGRAPH
STORM SEWER
SERVICE PEDESTAL
CABLE MARKER
POWER POLE
TELEPHONE POLE
RAILROAD
MARSH AREA
WOODED OR SHRUB AREA

LAYOUT SCALE
0 6.440 Km.

TOTAL NET LENGTH OF CENTERLINE = 17.990 Km. RURAL

ALL COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COORDINATE SYSTEM, CENTRAL ZONE

JOAN R. PETERSEN
E-25583
MADISON
WI
PROFESSIONAL ENGINEER
12-14-99

STRAND ASSOCIATES
CONSULTING ENGINEERS
Madison, Wisconsin 53715

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY
Surveyor STRAND
Designer STRAND
District Examiner
District Supervisor
Proj. Dev. Engineer TOM DOBSON
C.O. Examiner T.T. BAYLEY

APPROVED FOR DISTRICT OFFICE
DATE: 12-14-99 (Signature)

AUTHORIZED FOR BUREAU OF HIGHWAY DEVELOPMENT
DATE: 1/24/01 (Signature)

FILE NAME: M:\TITLE.DGN

WISDOT: MSHT10

ABBREVIATIONS

B	BARN
C.J.	CONSTRUCTION JOINT
CONC.	CONCRETE
COR.	CORNER
C.S.C.P.	CORRUGATED STEEL CULVERT PIPE
C.S.P.A.	CORRUGATED STEEL PIPE ARCH
D.H.V.	DESIGN HOURLY VOLUME
V.	DESIGN SPEED
DIA.	DIAMETER
DIM.	DIMENSION
e.	EXTERNAL DISTANCE
E.	EAST
E.C.I.P.	EROSION CONTROL IMPLEMENTATION PLAN
EL. OR ELEV.	ELEVATION
E.J.	EXPANSION JOINT
E.S.A.L.	EQUIVALENT SINGLE AXLE LOAD
E.O.P.	EDGE OF PAVEMENT
F.L.	FLOW LINE
G.	GARAGE
H	HOUSE
H.E.	HIGHWAY EASEMENT
I.E.	INVERT ELEVATION
I.P.	IRON PIN
D.	LANE DISTRIBUTION
L.	LENGTH (OF CURVE)
L.H.F.	LEFT HAND FORWARD
L.C.	LONG CHORD
L.P.	LOW POINT
M.D.	MEDIAN DRAIN
NOR.	NORMAL
N.	NORTH
OH	OVER HEAD ELECTRIC
T.	PERCENT OF TRUCKS
P.L.E.	PERMANENT LIMITED EASEMENT
P.L.	PROPERTY LINE
P.P.E.	PERMANENT PUBLIC EASEMENT
R.C.A.E.	REINFORCED CONCRETE APRON ENDWALL
R.C.A.P.	REINFORCED CONCRETE ARCH PIPE
R.C.C.P.	REINFORCED CONCRETE CULVERT PIPE
R.D.E.	RESTRICTED DEVELOPMENT EASEMENT
R.H.F.	RIGHT HAND FORWARD
RD.	ROAD
R.O.	RUNOFF
S.	SHED
SHR.	SHRINKAGE
S.E.	SUBGRADE
S.G.	SUPERELEVATION
SL.R.C.	SLOPED REINFORCED CONCRETE
S.P.B.G.	STEEL PLATE BEAM GUARD
SS.	STORM SEWER
TEL.	TELEPHONE
T.L.E.	TEMPORARY LIMITED EASEMENT
TN.	TOWN
TRANS.	TRANSITION
VOL.	VOLUME
W.	WEST

METRIC STANDARD DETAIL DRAWINGS

SDD NUMBER	TITLE
8D1-13	CONCRETE CURB, CONCRETE CURB AND GUTTER AND PAVEMENT TIES
8D4-3	CONCRETE SURFACE DRAIN AND ASPHALTIC FLUME
8E8-2	TYPICAL INSTALLATION OF EROSION BALES
8E9-6	SILT FENCE
8F1-11	APRON ENDWALLS FOR CULVERT PIPE
8F4-5	JOINT TIES FOR CONCRETE PIPE
9A1-11a	AT GRADE SIDE ROAD INTERSECTIONS, TYPES "B1", "B2", "C" AND "D" AND TEE INTERSECTION BYPASS LANE
9A1-11b	AT GRADE SIDE ROAD INTERSECTION, TYPE "A"
15A3-1	MARKER POSTS, FLEXIBLE, FOR CULVERT END
15C6-4	SIGNING AND MARKING FOR TWO LANE BRIDGES
15C8-9a	PAVEMENT MARKING (MAINLINE)
15C8-9b	PAVEMENT MARKING (INTERSECTIONS)
15C8-9C	PAVEMENT MARKING (CLIMBING LANE AND PASSING LANE)
15C12-2	TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)

DNR LIAISON

WISCONSIN DNR
1300 W. CLAIREMONT AVE.
EAU CLAIRE, WI 54702
ATTN: MR. TOM LOVEJOY
(715) 839-3747

DESIGN CONSULTANT

STRAND ASSOCIATES
910 WEST WINGRA DRIVE
MADISON, WI 53715
ATTN: JOAN PETERSEN
(608) 251-4843

GENERAL NOTES

THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS, AS SHOWN ON THE PLANS, ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA WHICH ARE NOT SHOWN.

WHEN THE QUANTITY OF THE ITEMS OF BASE OR SURFACE COURSE IS MEASURED FOR PAYMENT BY THE MG, THE DEPTH OR THICKNESS OF THE COURSE SHOWN ON THE PLANS IS APPROXIMATE AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER.

THE LOW SIDE SHOULDER SLOPE ON SUPERELEVATED SECTIONS EQUALS THE SUPERELEVATION RATE WHEN THE SUPERELEVATION RATE IS GREATER THAN 4%. IF THE SUPERELEVATION RATE IS LESS THAN OR EQUAL TO 4% THE LOW SIDE SHOULDER SLOPE IS 4%. THE HIGH SIDE SHOULDER SLOPE ON SUPERELEVATED SECTIONS EQUALS THE SUPERELEVATION RATE.

NO TREES AND/OR SHRUBS ARE TO BE REMOVED WITHOUT THE APPROVAL OF THE ENGINEER.

EXACT LOCATION AND WIDTH OF ALL PRIVATE AND FIELD ENTRANCES ARE TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

PRIVATE AND FIELD ENTRANCES ARE TO BE REPLACED IN KIND.

DISTURBED AREAS WITHIN THE RIGHT OF WAY, EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS, ARE TO BE FERTILIZED, TEMPORARY SEEDED, SEEDED AND MULCHED AS DIRECTED BY THE ENGINEER.

115 mm ASPHALTIC CONCRETE PAVEMENT, TYPE E-1, SHALL BE CONSTRUCTED WITH A 65 mm LOWER LAYER AND A 50 mm UPPER LAYER.

100 mm ASPHALTIC CONCRETE PAVEMENT, TYPE E-1, SHALL BE CONSTRUCTED WITH A 50 mm LOWER LAYER AND A 50 mm UPPER LAYER.

75 mm ASPHALTIC CONCRETE PAVEMENT, TYPE E-1, SHALL BE CONSTRUCTED WITH A 37 mm LOWER LAYER AND A 38 mm UPPER LAYER.

TACK COAT HAS BEEN ESTIMATED AT AN APPLICATION RATE OF 0.113 L/M2 AND SHALL BE PLACED BETWEEN LAYERS OF ASPHALTIC CONCRETE PAVEMENT.

STATIONING OF STH 58 WAS ESTABLISHED FROM ORIGINAL PLANS AND NOT FIELD VERIFIED. STATIONS AT INTERSECTIONS ARE APPROXIMATE. ELEVATIONS AT INTERSECTIONS ARE LOCAL DATUM PER EACH INTERSECTION.

UTILITIES

ELECTRIC:
ALLIANT ENERGY CORPORATION
1000 MAIN STREET
P.O. BOX 769
DUBUQUE, IA 52004-0769
ATTN: MR. GARY QUADE
(319) 584-7395
(319) 599-0433 (CELL PHONE)
PAGER (800) 365-7789 (ID#104438)

ELECTRIC:
OAKDALE ELECTRIC COOPERATIVE
P.O. BOX 128
OAKDALE, WI 54649
ATTN: MR. GENE EDGERTON
(608) 372-4131

TELEPHONE:
TDS TELCOM
301 SOUTH WESTFIELD ROAD
MADISON, WI 53717
ATTN: MR. KEITH WHITE
(800) 221-3977

TELEPHONE:
LEMONWEIR VALLEY TELEPHONE COMPANY
P.O. BOX 267
CAMP DOUGLAS, WI 54618
ATTN: RODNEY WAGENSSON
(608) 427-6515

TELEPHONE:
VERIZON NORTH INC.
2222 WEST WISCONSIN STREET
PORTAGE, WI 53901
ATTN: MR. STEVE PATE
(608) 742-9523

TO OBTAIN LOCATION OF PARTICIPANTS' UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN

CALL DIGGERS HOTLINE
1-800-242-8511
TOLL FREE

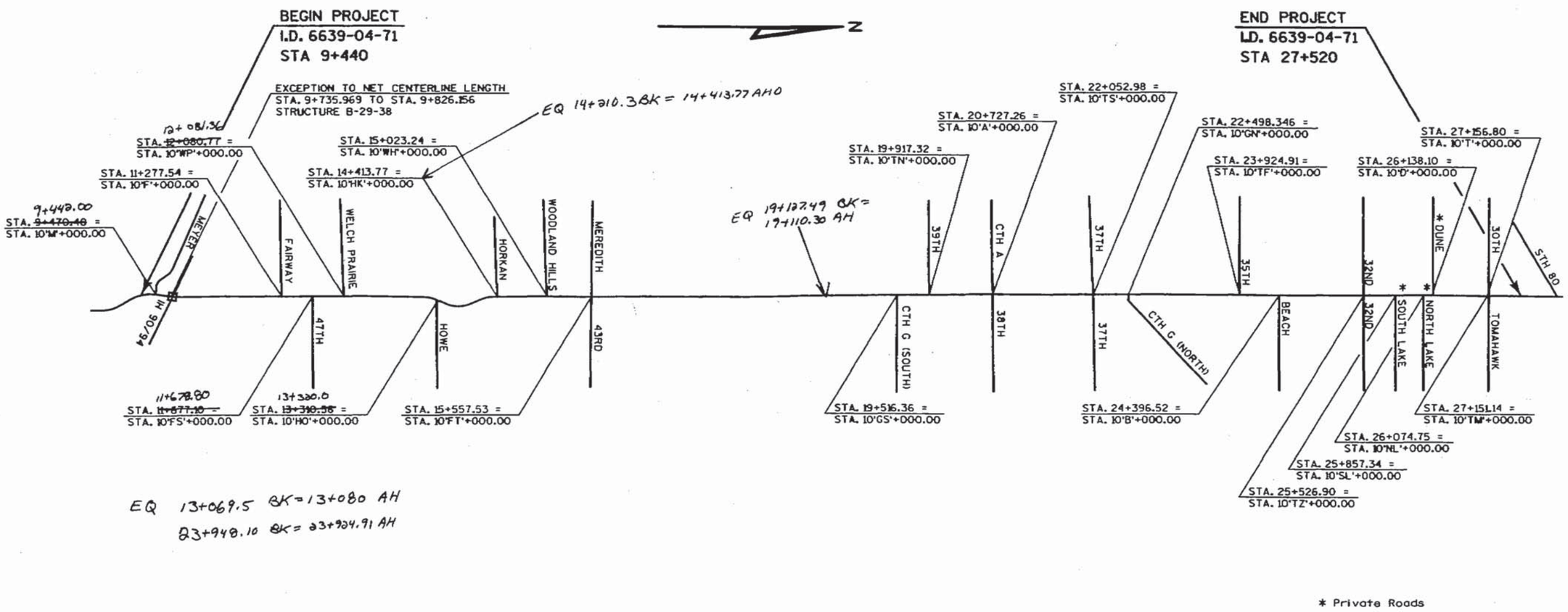
FAX A LOCATE 1-800-338-3860
TDD (FOR HEARING IMPAIRED) 1-800-542-2289

WIS. STATUTE 182.0175 (1974) REQUIRES MIN. OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE.

RUNOFF COEFFICIENT TABLE

	HYDROLOGIC SOIL GROUP											
	A			B			C			D		
	SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)		
LAND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER
ROW CROPS	.08 .22	.16 .30	.22 .38	.12 .26	.20 .34	.27 .44	.15 .30	.24 .37	.33 .50	.19 .34	.28 .41	.38 .56
MEDIAN STRIP- TURF	.19 .24	.20 .26	.24 .30	.19 .25	.22 .28	.26 .33	.20 .26	.23 .30	.30 .37	.20 .27	.25 .32	.30 .40
SIDE SLOPE- TURF			.25 .32			.27 .34			.28 .36			.30 .38
PAVEMENT:												
ASPHALT	.70 - .95											
CONCRETE	.80 - .95											
BRICK	.70 - .80											
DRIVES, WALKS	.75 - .85											
ROOFS	.75 - .95											
GRAVEL ROADS, SHOULDERS	.40 - .60											

TOTAL PROJECT AREA = 106.9 ACRES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 65.4 ACRES



* Private Roads

PROJECT OVERVIEW	NO SCALE	HWY: STH 58	COUNTY: JUNEAU	STATE PROJECT NO: 6639-04-71	SHEET NO: 2.2	M

FILE NAME: s:\bsol\051--100\089\495\micro8\overview.dgn ORIGINATOR : DMG PLOT DATE : 02 DEC 99 PLOT SCALE : TIME: 09:03:30 STRAND ASSOCIATES 089-495-

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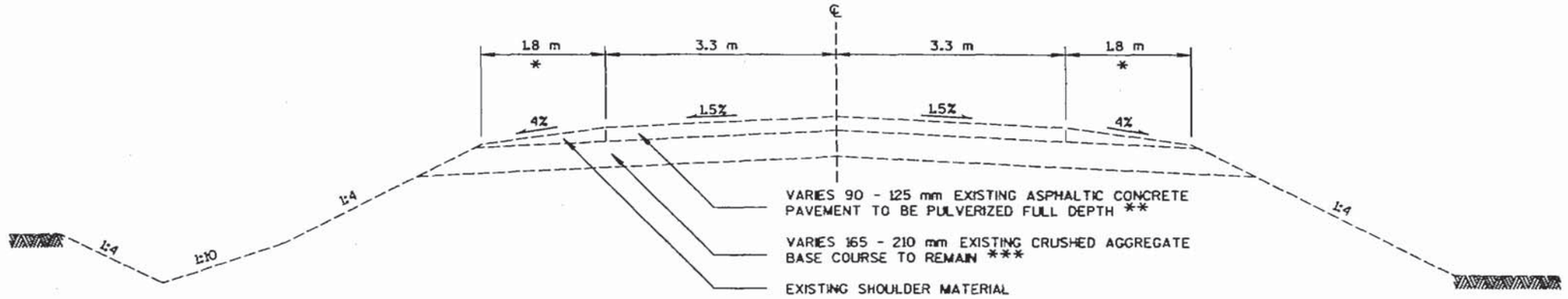
W:\DOT1 MSHT20

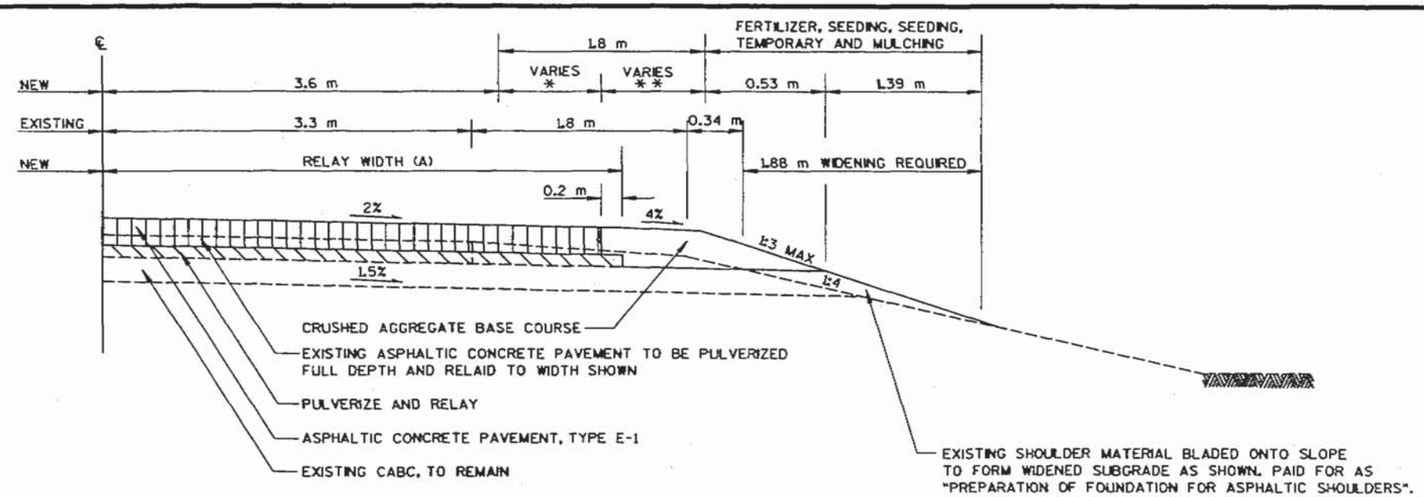


TYPICAL EXISTING SECTION

STATION 9+440 - STATION 27+520

EXISTING TYPICAL SECTION - PAVEMENT DIMENSIONS

STATION - STATION	SHOULDER WIDTH PAVED m *	SHOULDER WIDTH GRAVEL m *	ASPHALTIC CONCRETE PAVEMENT THICKNESS mm **	CRUSHED AGGREGATE BASE COURSE THICKNESS mm ***	NOTES
9+440 - 9+736	0.9	0.9	125	165	B-29-38
9+736 - 9+826	---	---	---	---	
9+826 - 11+277	0.9	0.9	125	165	
11+277 - 19+630	0	1.8	125	165	
19+630 - 27+520	0	1.8	90	210	



TYPICAL FINISHED SECTION

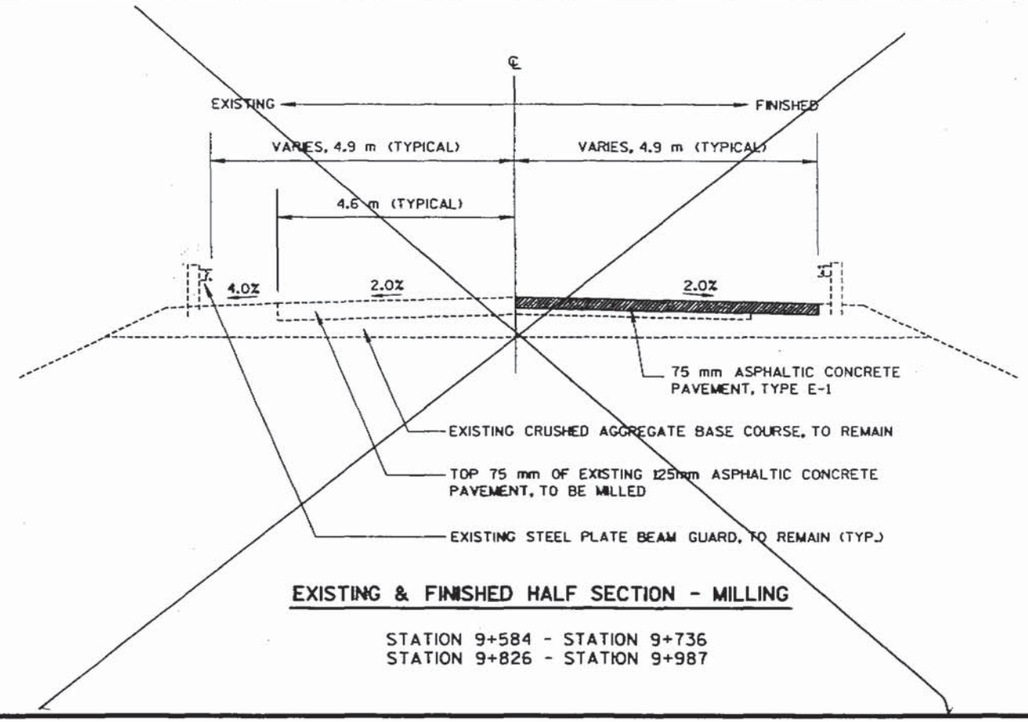
(HALF SECTION IN FILL SHOWN, CUT SECTION IS IDENTICAL)
SEE STATION LIMITS BELOW

TYPICAL FINISHED SECTION - PAVEMENT DIMENSIONS

STATION - STATION	EXISTING ACP THICKNESS mm	EXISTING CABC THICKNESS mm	PULVERIZE AND RELAY: PULVERIZING DEPTH (ASPHALT ONLY) mm	PULVERIZE AND RELAY: RESULTANT DEPTH mm	PULVERIZE AND RELAY: (A) WIDTH FROM ℄ m	ASPHALTIC CONCRETE PAVEMENT, TYPE E-1 mm	PAVED SHOULDER WIDTH m *	CABC SHOULDER WIDTH m **
9+440 - 9+559	125	165	125	86	5.3	115	1.5	0.3
10+012 - 11+317	125	165	125	86	5.3	115	1.5	0.3
11+317 - 13+070	125	165	125	97	4.7	115	0.9	0.9
14+128 - 19+630	125	165	125	97	4.7	115	0.9	0.9
19+630 - 22+615	90	210	90	70	4.7	115	0.9	0.9
22+615 - 27+520	90	210	90	70	4.7	100	0.9	0.9

(A) PAY LIMITS PER HALF SECTION FOR PULVERIZE AND RELAY IS THE FINAL WIDTH PLACED AS SHOWN IN THE CHART.

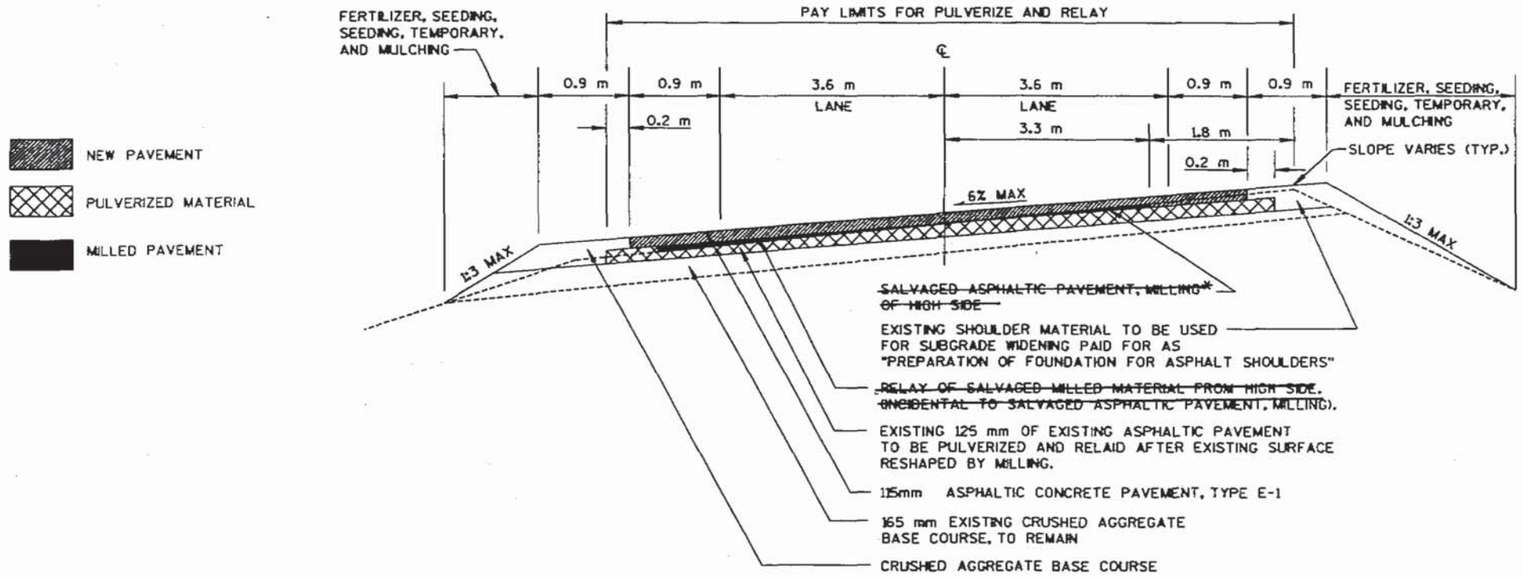
TYPICAL SECTION	NO SCALE	HWY: S.T.H. 58	COUNTY: JUNEAU	STATE PROJECT NO: 6639-04-71	SHEET NO: 2.3	M



NOTE: PAVEMENT PULVERIZED UP TO BRIDGE AT 9+736 AND 9+826.

EXISTING & FINISHED HALF SECTION - MILLING

STATION 9+584 - STATION 9+736
STATION 9+826 - STATION 9+987

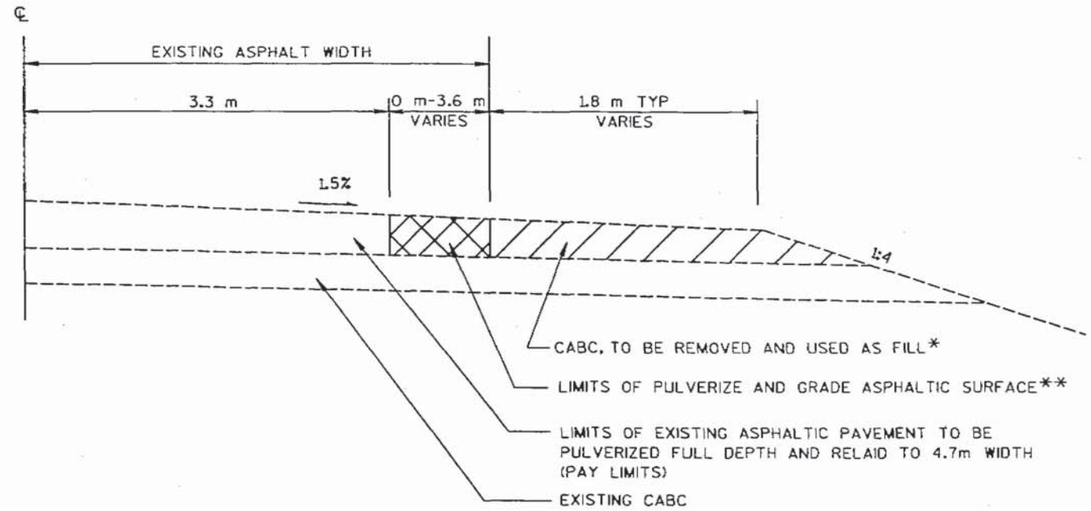


* SEE CURVE DATA ON DETAIL SHEETS FOR PROPER SUPERELEVATION RATES

EXISTING AND FINISHED SUPERELEVATED SECTION

STATION 13+070 - STATION 14+128

TYPICAL SECTION	NO SCALE	HWY: S.T.H. 58	COUNTY: JUNEAU	STATE PROJECT NO: 6639-04-71	SHEET NO: 24	M

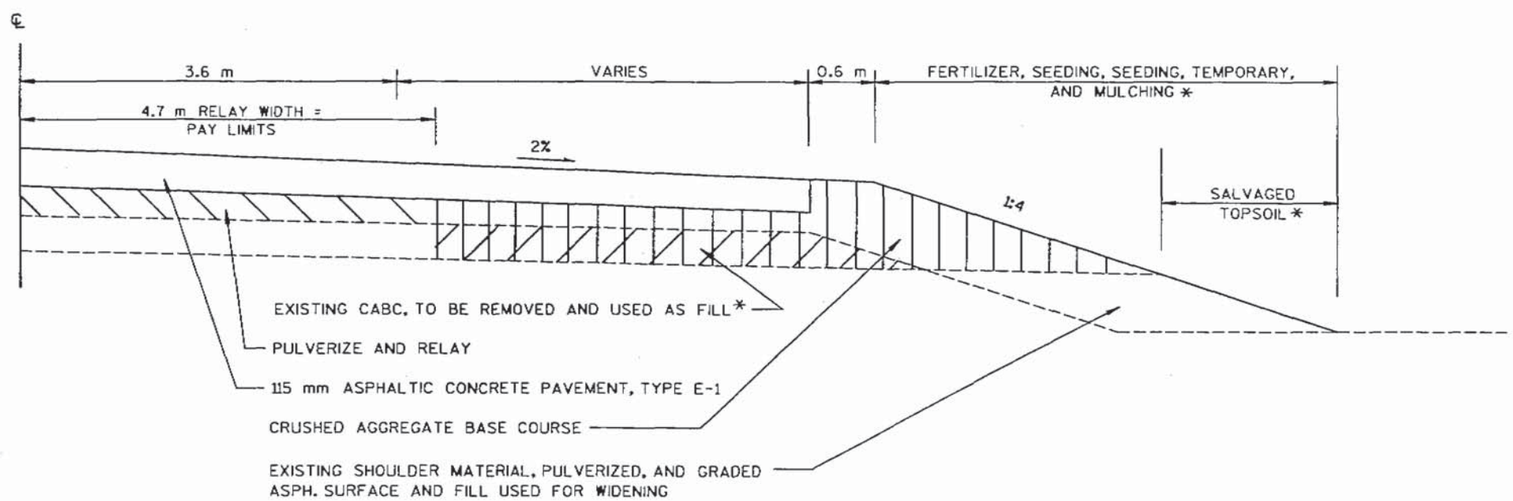


* PAID FOR UNDER GRADING, SHAPING, AND FINISHING INTERSECTION (LOCATION) - SEE MISCELLANEOUS QUANTITIES FOR INFORMATIONAL ESTIMATED QUANTITIES

** USED WHERE EXISTING TAPERS OR BYPASS LANES ARE PRESENT

EXISTING HALF SECTION FOR INTERSECTION TAPERS AND BYPASS LANES ON STH 58

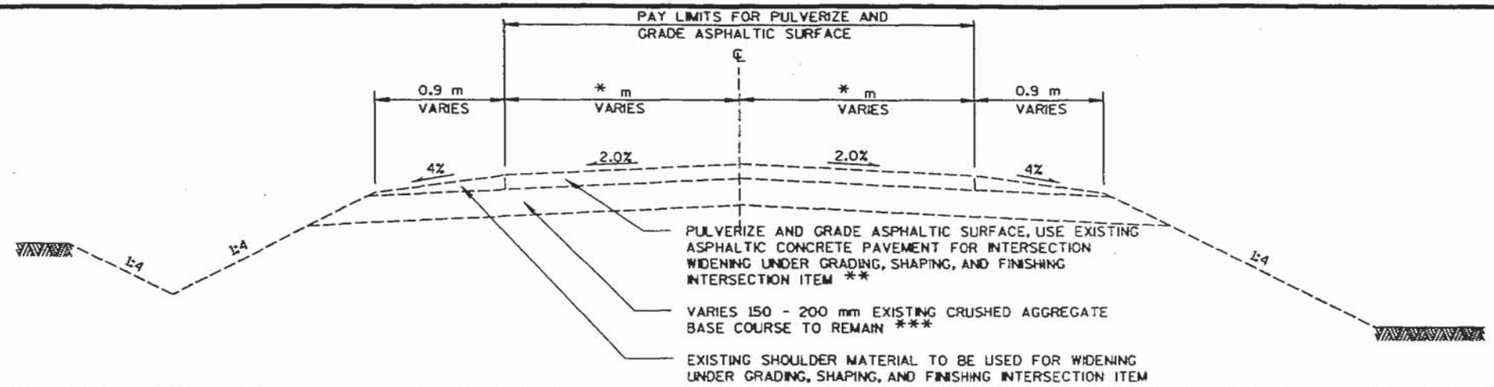
(AT CTH G (SOUTH), CTH A, CTH G (NORTH))



FINISHED HALF SECTION FOR INTERSECTION TAPERS AND BYPASS LANES ON STH 58

(AT CTH G (SOUTH), CTH A, CTH G (NORTH))

INTERSECTION TAPERS AND BYPASS LANES	NO SCALE	HWY: S.T.H. 58	COUNTY: JUNEAU	STATE PROJECT NO: 6639-04-71	SHEET NO: 2.5	M



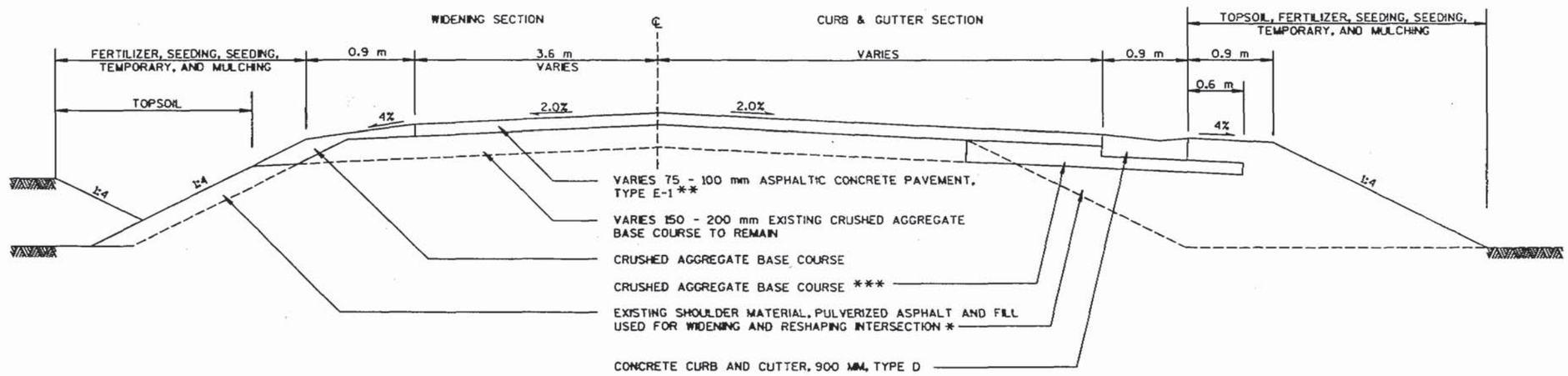
EXISTING TYPICAL SECTION - PAVEMENT DIMENSIONS			
SIDE ROAD	ASPHALTIC CONCRETE PAVEMENT THICKNESS mm **	CRUSHED AGGREGATE BASE COURSE THICKNESS mm ***	ASPHALT WIDTH m *
MEYER ROAD	65	200	3.35
FAIRWAY ROAD	65	200	3.20
47th STREET	65	200	3.15
WELCH PRAIRIE ROAD	65	200	3.15
HORKAN ROAD	65	200	2.90
WOODLAND HILLS ROAD	65	200	3.25
MEREDITH ROAD	65	200	3.25
43rd STREET	65	200	3.10
CTH 'G' (SOUTH)	65	200	3.60

TYPICAL EXISTING SECTION

SIDE ROAD INTERSECTIONS

* LANE WIDTH AT MATCH POINT WITH SIDE ROAD

EXISTING TYPICAL SECTION - PAVEMENT DIMENSIONS			
SIDE ROAD	ASPHALTIC CONCRETE PAVEMENT THICKNESS mm **	CRUSHED AGGREGATE BASE COURSE THICKNESS mm ***	ASPHALT WIDTH m *
39th STREET	50	150	2.95
CTH A	50	150	3.1
37th STREET	50	150	3.2
CTH 'G' (NORTH)	50	150	3.6
35th STREET	50	150	2.85
BEACH DRIVE	50	150	3.45
32nd STREET	50	150	3.0
30th STREET	50	150	3.15
TOMAHAWK TRAIL	50	150	2.75



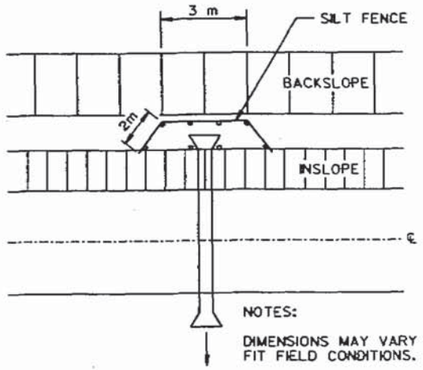
* PAID FOR UNDER GRADING, SHAPING, AND FINISHING INTERSECTIONS (LOCATION)

TYPICAL FINISHED SECTION

SIDE ROAD INTERSECTIONS

FINISHED TYPICAL SECTION - PAVEMENT DIMENSIONS		
SIDE ROAD	ASPHALTIC CONCRETE PAVEMENT THICKNESS mm **	CRUSHED AGGREGATE BASE COURSE THICKNESS mm ***
MEYER ROAD	75	200
FAIRWAY ROAD	75	200
47th STREET	75	200
WELCH PRAIRIE ROAD	75	200
HORKAN ROAD	75	200
WOODLAND HILLS ROAD	75	200
MEREDITH ROAD	75	200
43rd STREET	75	200
CTH 'G' (SOUTH)	100	200

FINISHED TYPICAL SECTION - PAVEMENT DIMENSIONS		
SIDE ROAD	ASPHALTIC CONCRETE PAVEMENT THICKNESS mm **	CRUSHED AGGREGATE BASE COURSE THICKNESS mm ***
39th STREET	75	150
CTH A	100	150
37th STREET	75	150
CTH 'G' (NORTH)	100	150
35th STREET	75	150
BEACH DRIVE	75	150
32nd STREET	75	150
30th STREET	75	150
TOMAHAWK TRAIL	75	150

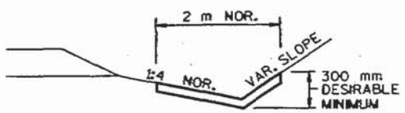


NOTES:

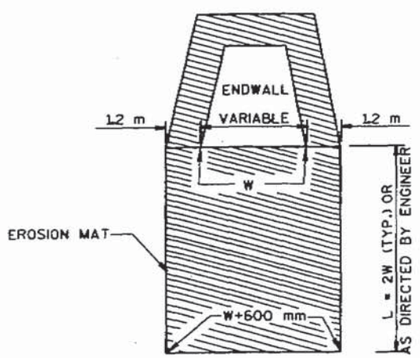
DIMENSIONS MAY VARY TO FIT FIELD CONDITIONS.

SEE S.D.D., SILT FENCE FOR OTHER CONSTRUCTION DETAILS

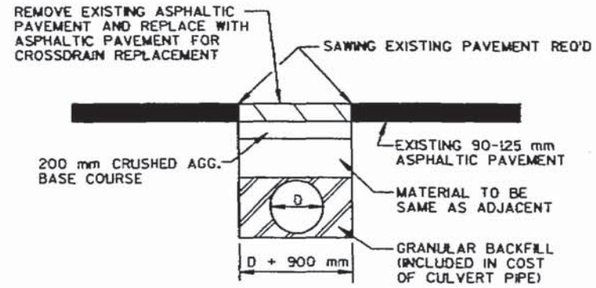
SILT FENCE DETAIL FOR CULVERT PIPE INLET



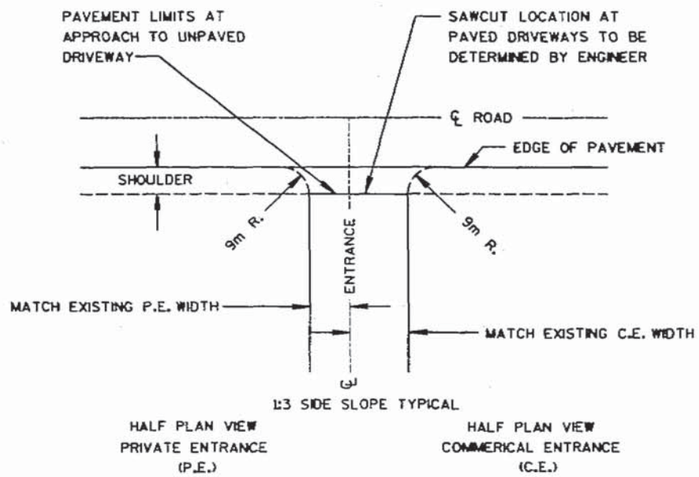
EROSION MAT DETAIL FOR DITCHES AT INTERSECTIONS



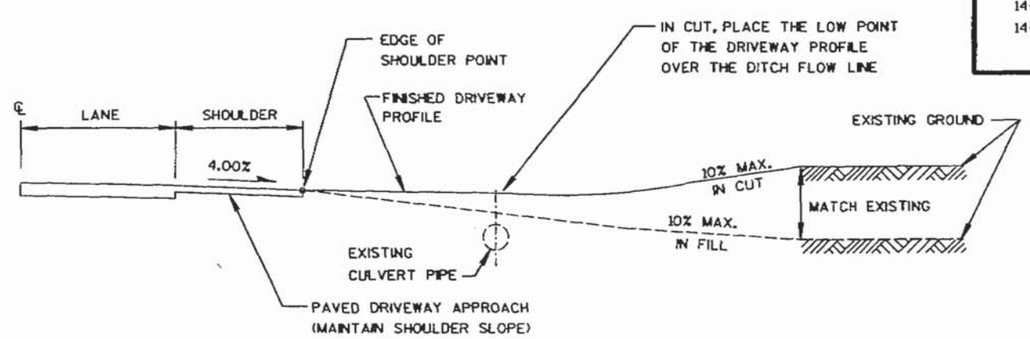
EROSION MAT TREATMENT AT CULVERTS



DETAIL FOR CULVERT PIPE INSTALLATION IN AREAS OF EXISTING PAVEMENT



PLAN VIEW



PROFILE VIEW

RURAL DRIVEWAY DETAIL

CURVE SUPERELEVATION TABLE
PI STA. = 13+213.36

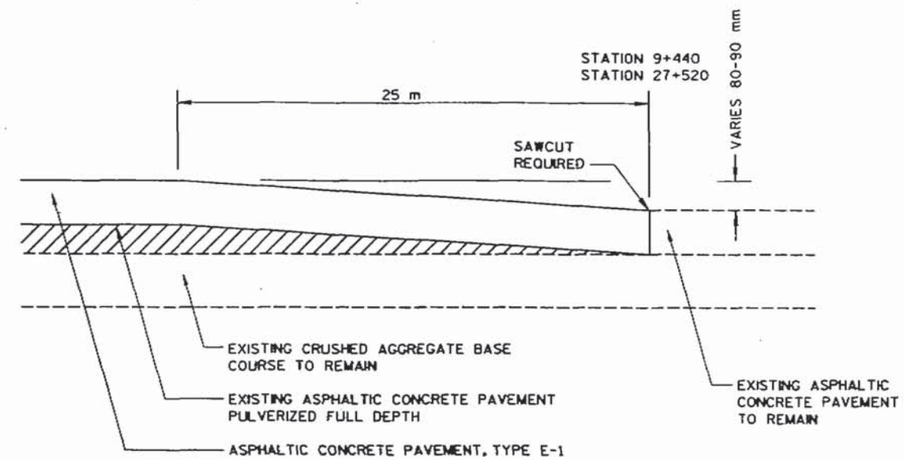
STATION	LT	RT	DESCRIPTION
13+070.21	-2.00	-2.00	NORMAL CROWN
13+087.21	0.00	-2.00	0% SUPER
13+104.66	2.00	-2.00	REVERSE CROWN
13+120.54	3.82	-3.82	PC
13+137.21	5.73	-5.73	FULL SUPER
13+286.79	5.73	-5.73	FULL SUPER
13+303.46	3.82	-3.82	PT
13+319.34	2.00	-2.00	REVERSE CROWN
13+336.79	0.00	-2.00	0% SUPER
13+353.79	-2.00	-2.00	NORMAL CROWN

CURVE SUPERELEVATION TABLE
PI STA. = 13+596.85

STATION	LT	RT	DESCRIPTION
13+373.69	-2.00	-2.00	NORMAL CROWN
13+390.69	-2.00	0.00	0% SUPER
13+407.58	-2.00	2.00	REVERSE CROWN
13+424.02	-3.95	3.95	PC
13+440.69	-5.92	5.92	FULL SUPER
13+732.56	-5.92	5.92	FULL SUPER
13+749.23	-3.95	3.95	PT
13+765.67	-2.00	2.00	REVERSE CROWN
13+782.56	-2.00	0.00	0% SUPER
13+799.56	-2.00	-2.00	NORMAL CROWN

CURVE SUPERELEVATION TABLE
PI STA. = 14+195.53

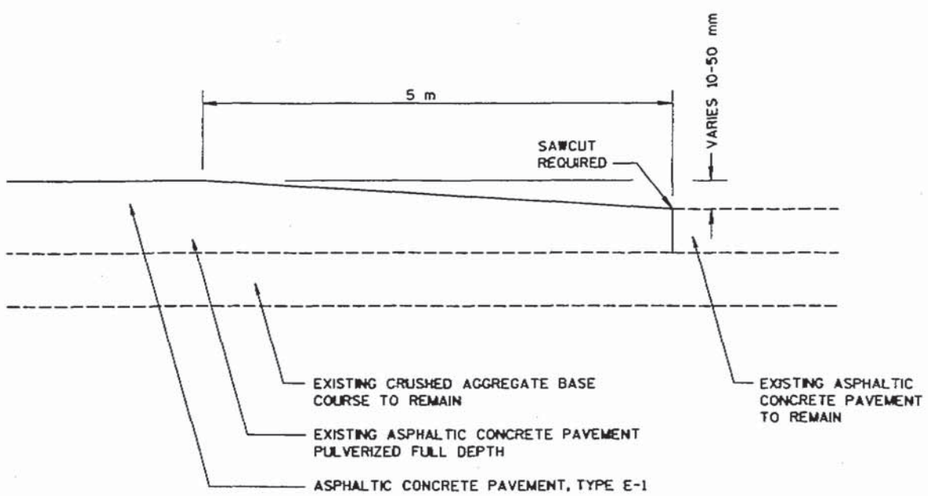
STATION	LT	RT	DESCRIPTION
14+058.85	-2.00	-2.00	NORMAL CROWN
14+075.85	0.00	-2.00	0% SUPER
14+093.30	2.00	-2.00	REVERSE CROWN
14+109.18	3.82	-3.82	PC
14+125.85	5.73	-5.73	FULL SUPER
14+262.98	5.73	-5.73	FULL SUPER
14+279.65	3.82	-3.82	PT
14+295.53	2.00	-2.00	REVERSE CROWN
14+312.98	0.00	-2.00	0% SUPER
14+329.98	-2.00	-2.00	NORMAL CROWN



BUTT JOINT DETAIL

STATION 9+440

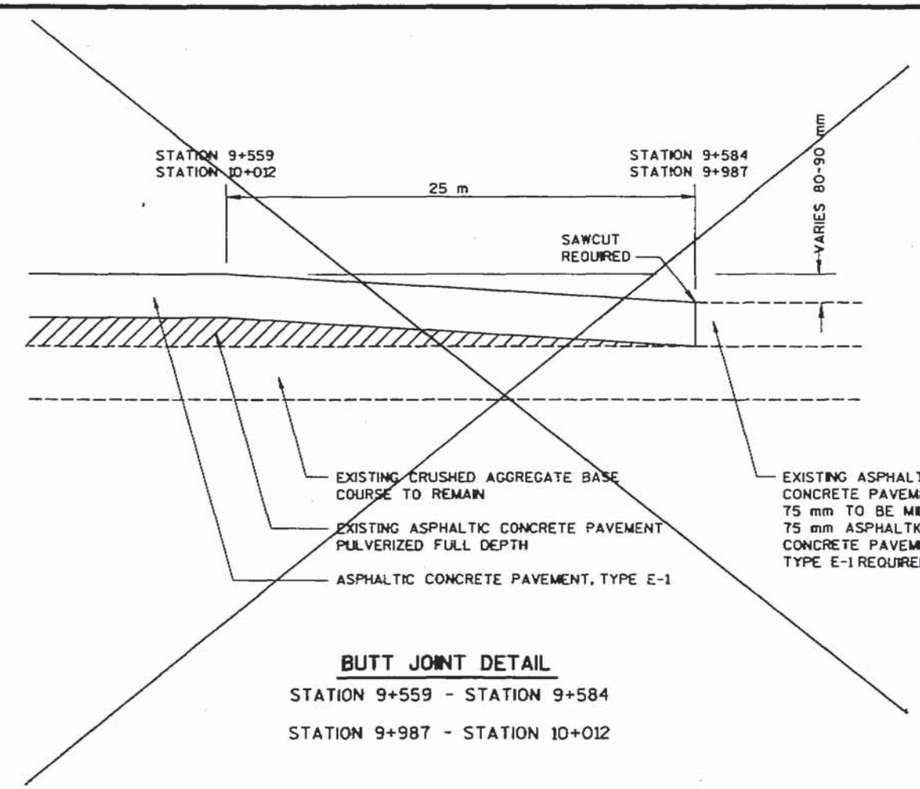
STATION 27+520



BUTT JOINT DETAIL

SIDE ROAD INTERSECTIONS

STATION 9+440 - STATION 27+520



BUTT JOINT DETAIL

STATION 9+559 - STATION 9+584

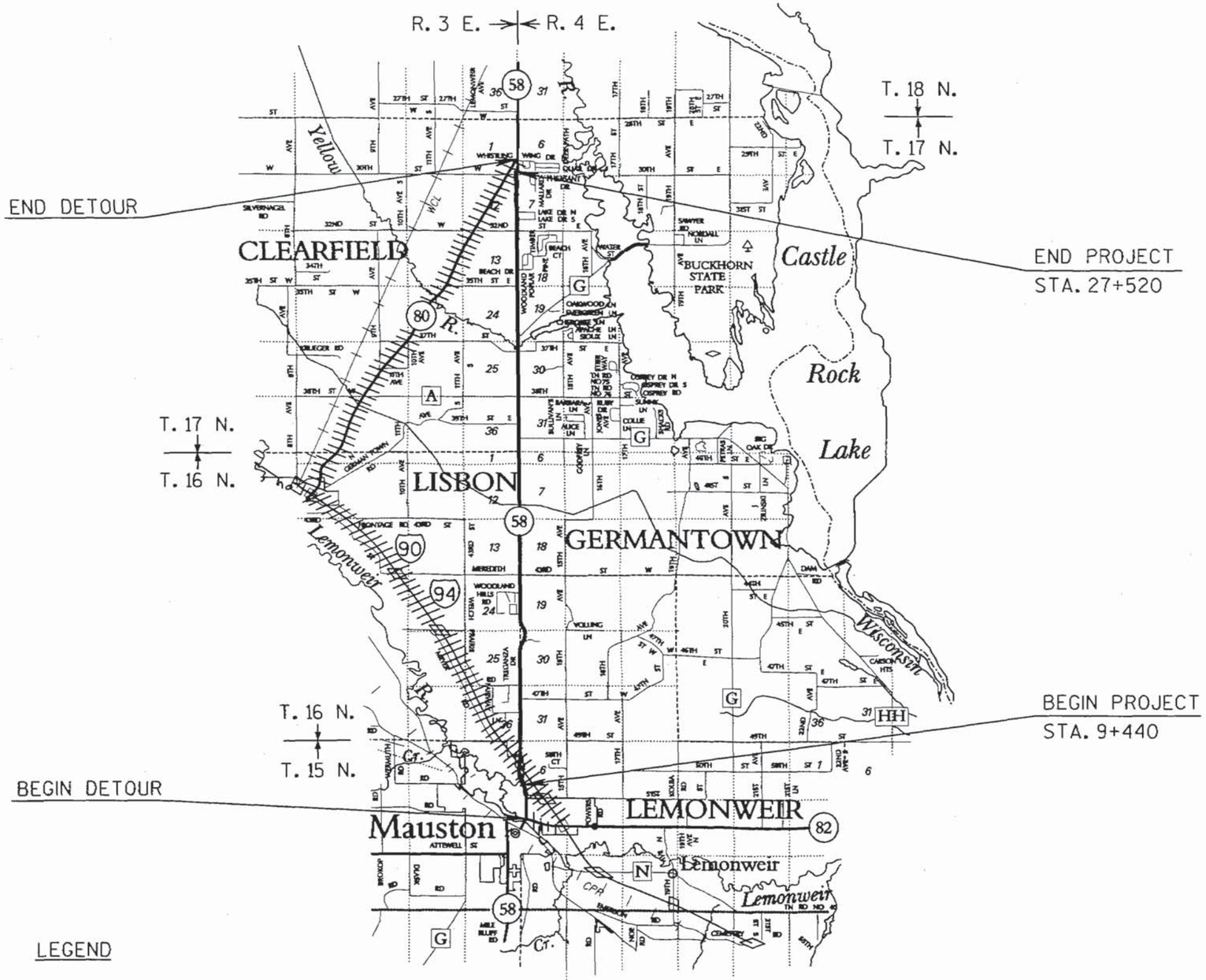
STATION 9+987 - STATION 10+012

LEVELS ON - 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29, 31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

BUTT JOINT DETAILS	NO SCALE	HWY: S.T.H. 58	COUNTY: JUNEAU	STATE PROJECT NO: 6639-04-71	SHEET NO: 2.8	M

FILE NAME: s:\eSci\051--100\089\495\MICROS\typical.dgn ORIGINATOR : JMP PLOT DATE : 01/22/2001 PLOT SCALE : TIME: 09:50:26 AM STRAND ASSOCIATES 089-495-

WI-DOT: MSHT20



LEGEND

S.T.H. 58 DETOUR ROUTE

NOTE: DETOUR WILL BE SIGNED AND MAINTAINED BY STATE FORCES

TRAFFIC CONTROL DETOUR ROUTE	NO SCALE	HWY: STH 58	COUNTY: JUNEAU	STATE PROJECT NO: 6639-04-71	SHEET NO: 2.9	M

FILE NAME: a:\aSol\051--100\089\495\MICROS\detour.dgn ORIGINATOR : PLOT DATE : 01/22/2001 PLOT SCALE : TIME: 09:52:20 AM STRAND ASSOCIATES

LEVELS ON - 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

WisDOT: MSHT20

TRAFFIC CONTROL NOTES

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER

SEE SDD "TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)" FOR CULVERT PIPE REPLACEMENTS, MILLING, PULVERIZING AND RELAYING, AND PAVING OPERATIONS

ANY EXISTING SIGNS THAT CONFLICT WITH THIS WORK MAY BE COVERED OR REMOVED AS APPROVED BY THE ENGINEER. ALL STOP, WARNING AND REGULATORY SIGNS ON THE SIDEROADS SHALL NOT BE DISTURBED, EXCEPT WHEN NECESSARY TO COMPLETE THE WORK, THE SIGNS MUST THEN BE IMMEDIATELY RE-ESTABLISHED.

ALL W SIGNS ARE TO BE POST MOUNTED UNLESS APPROVED BY THE ENGINEER.

ALL SIGNS ARE 1200 mm x 1200 mm UNLESS OTHERWISE NOTED.

ALL TYPE III BARRICADES SHALL HAVE AN EQUIVALENT WIDTH OF 2.4 METERS.

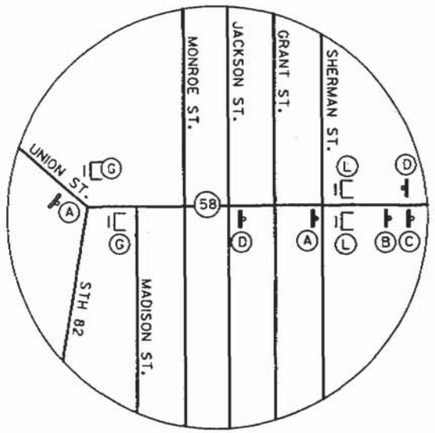
ROAD WORK AHEAD SIGNS ON SIDEROADS SHALL BE 150 m FROM INTERSECTION WITH STH 58

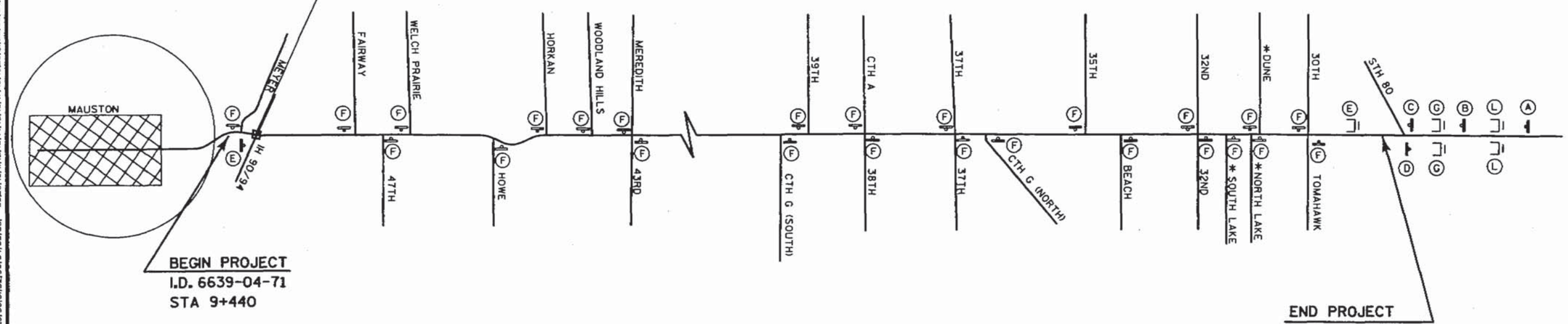
EXCEPTION TO NET CENTERLINE LENGTH
STA. 9+735.969 TO STA. 9+826.156
STRUCTURE B-29-38

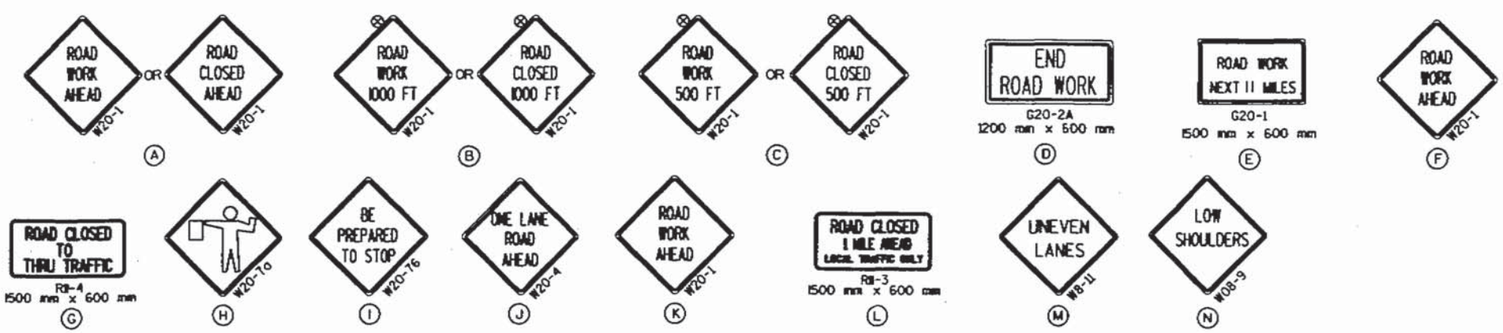
TRAFFIC CONTROL SIGN SCHEDULE

SIGN	SIGN MESSAGE	NUMBER REQUIRED	DAYS NEEDED	DAYS	REMARKS
A	ROAD WORK AHEAD, ROAD CLOSED AHEAD	3	76	228	
B	ROAD WORK 1000', ROAD CLOSED 1000'	2	76	152	
C	ROAD WORK 500', ROAD CLOSED 500'	2	76	152	
D	END ROAD WORK	2	76	152	
E	ROAD WORK NEXT 11 MILES	2	76	152	
F	ROAD WORK AHEAD	25	76	1,900	INTERSECTIONS
G	ROAD CLOSED TO THRU TRAFFIC	4	46	184	
H	FLAGGER	6*	76	---	
I	BE PREPARED TO STOP	6*	76	---	
J	ONE LANE ROAD AHEAD	6*	76	---	
K	ROAD WORK AHEAD	6*	76	---	
L	ROAD CLOSED 1 MILE AHEAD LOCAL TRAFFIC ONLY	4	46	184	
M	UNEVEN LANES	11	30	330	PLACE SIGN ON TYPE II BARRICADE EVERY 1.6 KM, AS NEEDED
N	LOW SHOULDER	11	30	330	" " "
	BARRICADES, TYPE II	22	30	660	
	BARRICADES, TYPE III	8	46-76	672	
	WARNING LIGHTS, TYPE 'A'	4	76	304	ON SIGNS
	WARNING LIGHTS, TYPE 'A'	8	46	368	ON BARRICADES WITH SIGNS G AND L

* FOR INFORMATION ONLY







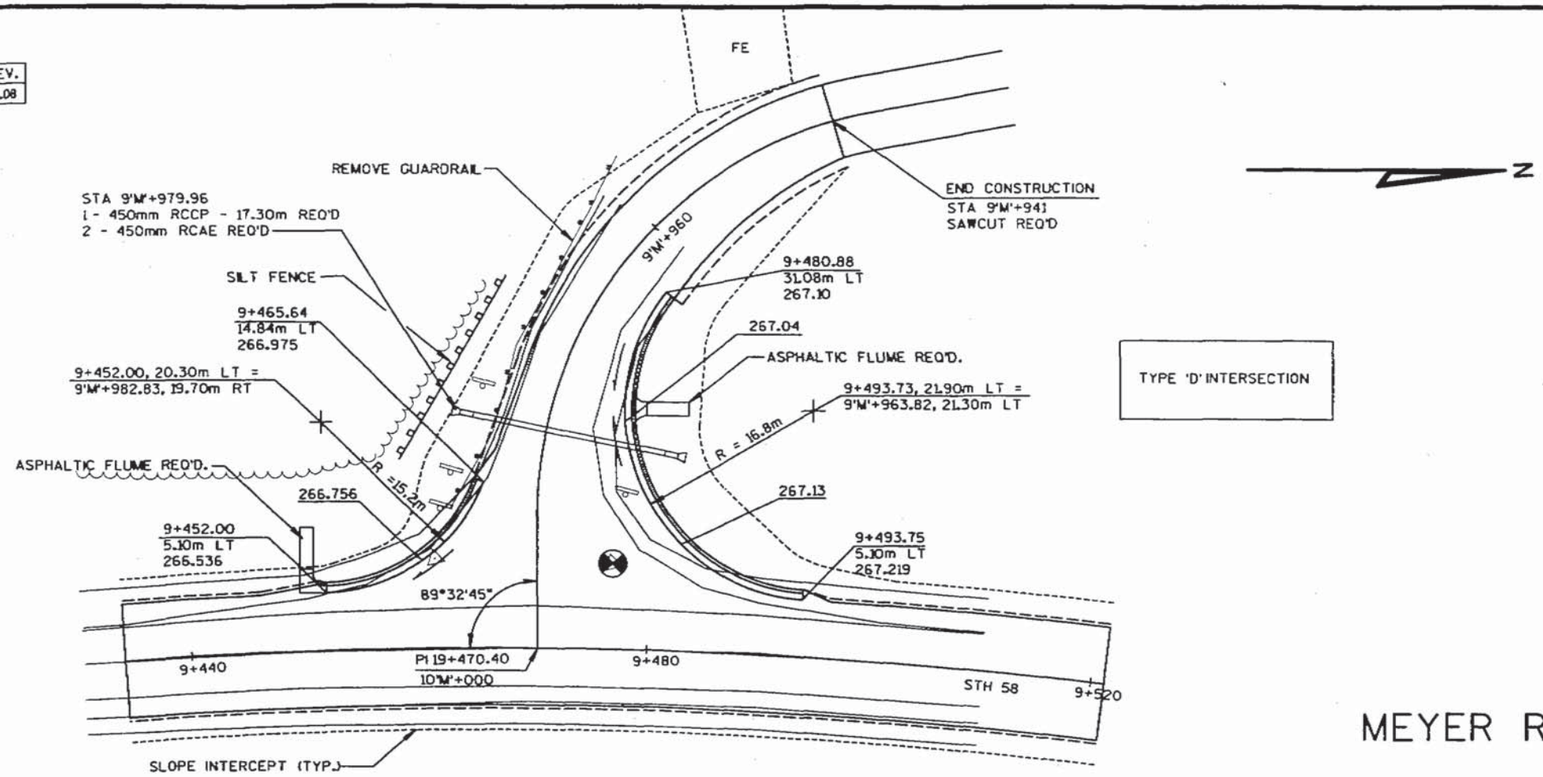
LEGEND

- ⊗ TYPE A FLASHING WARNING LIGHT
- ⊢ POST MOUNTED SIGN
- * PRIVATE ROADS
-]| TYPE III BARRICADE WITH SIGN

TRAFFIC CONTROL	NO SCALE	HWY: STH 58	COUNTY: JUNEAU	STATE PROJECT NO: 6639-04-71	SHEET NO: 2.10	M

BENCH MARKS

NO.	STATION	DESCRIPTION	OFFSET	ELEV.
1	9+476.94	PK Nailin Pavement	7.64 LT	267.08

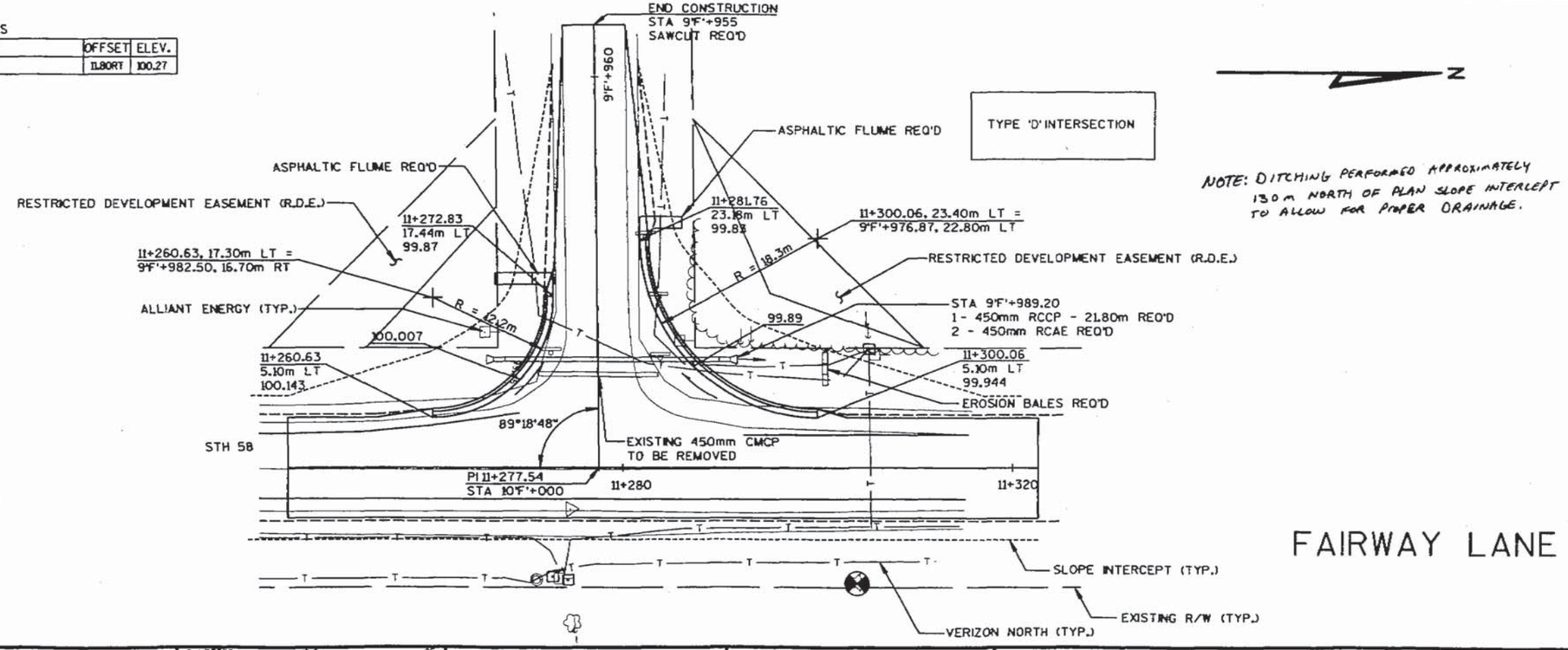


TYPE 'D' INTERSECTION

MEYER ROAD

BENCH MARKS

NO.	STATION	DESCRIPTION	OFFSET	ELEV.
1	11+304.23	Nailin Coniferous Tree	11.80RT	100.27



TYPE 'D' INTERSECTION

NOTE: DITCHING PERFORMED APPROXIMATELY 130 m NORTH OF PLAN SLOPE INTERCEPT TO ALLOW FOR PROPER DRAINAGE.

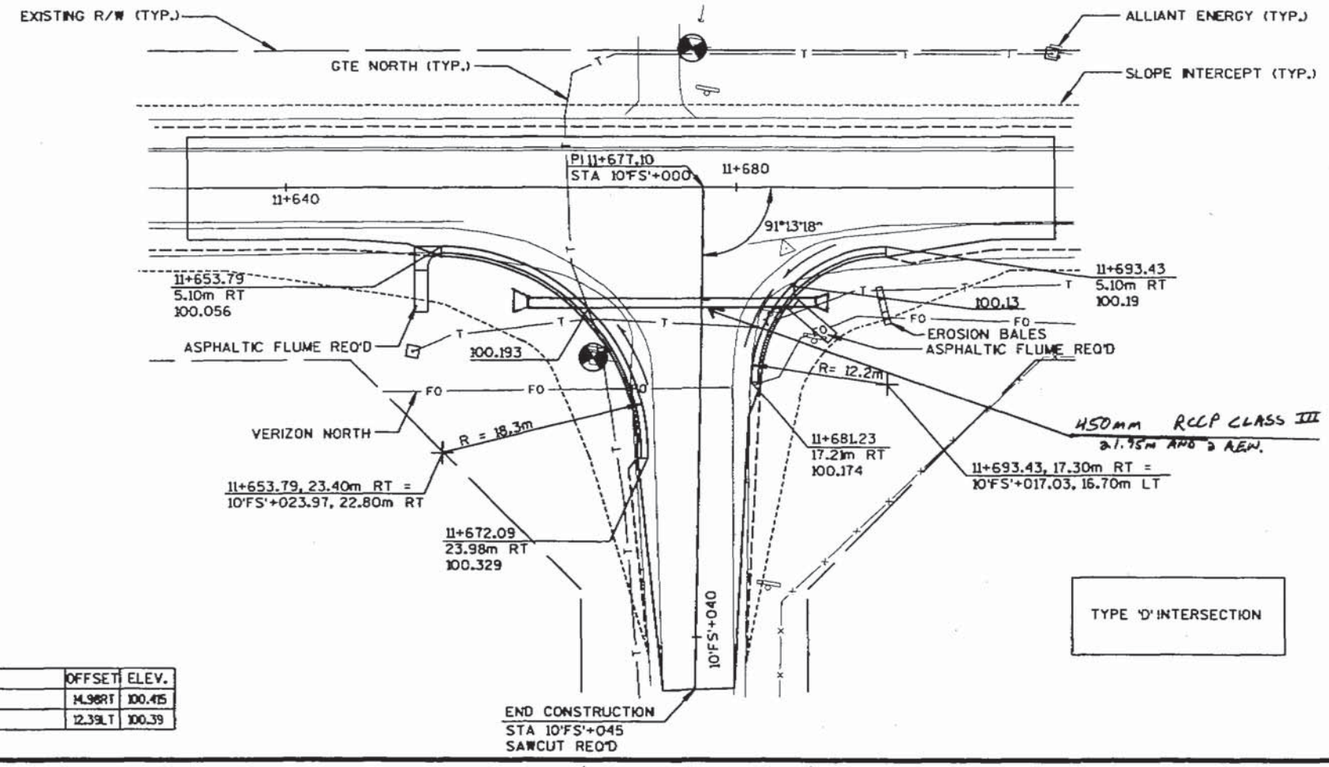
FAIRWAY LANE

INTERSECTION DETAIL	0 METERS 2.5 5	HWY: S.T.H. 58	COUNTY: JUNEAU	STATE PROJECT NO: 6639-04-71	SHEET NO: 2.11	M

FILE NAME: a:\WSdi\051--100\089\495\MICROS\INTERSEC\SHEET01.DGN ORIGINATOR : PLOT DATE : 01/22/2001 PLOT SCALE : TIME: 09:57:48 AM STRAND ASSOCIATES 089-495-

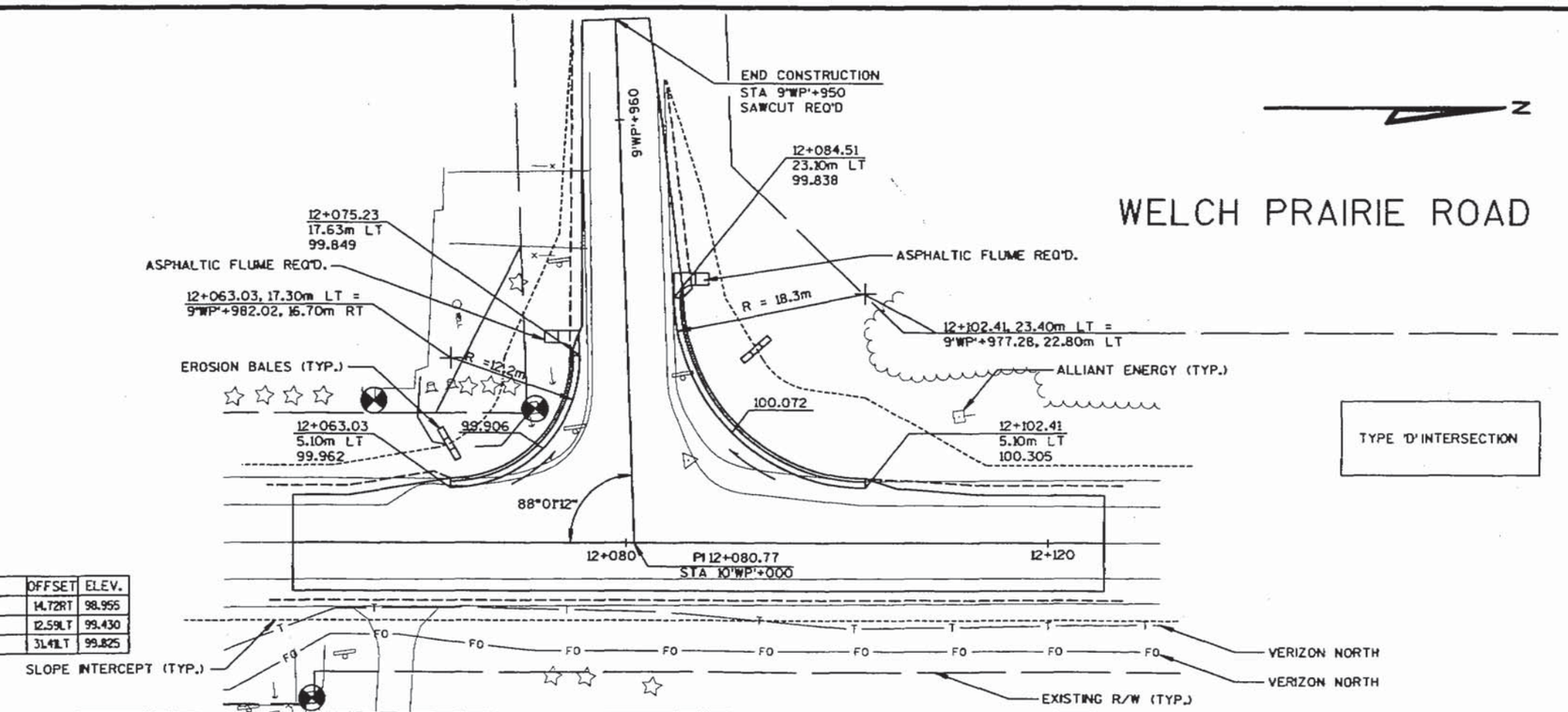
LEVELS ON - 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,
57,58,59,60,61,62,63

WisDOT: MSHT20



BENCH MARKS

NO.	STATION	DESCRIPTION	OFFSET	ELEV.
1	11+667.29	Nallin Power Pole	14.98RT	100.415
2	11+676.24	Nallin Power Pole	12.39LT	100.39



BENCH MARKS

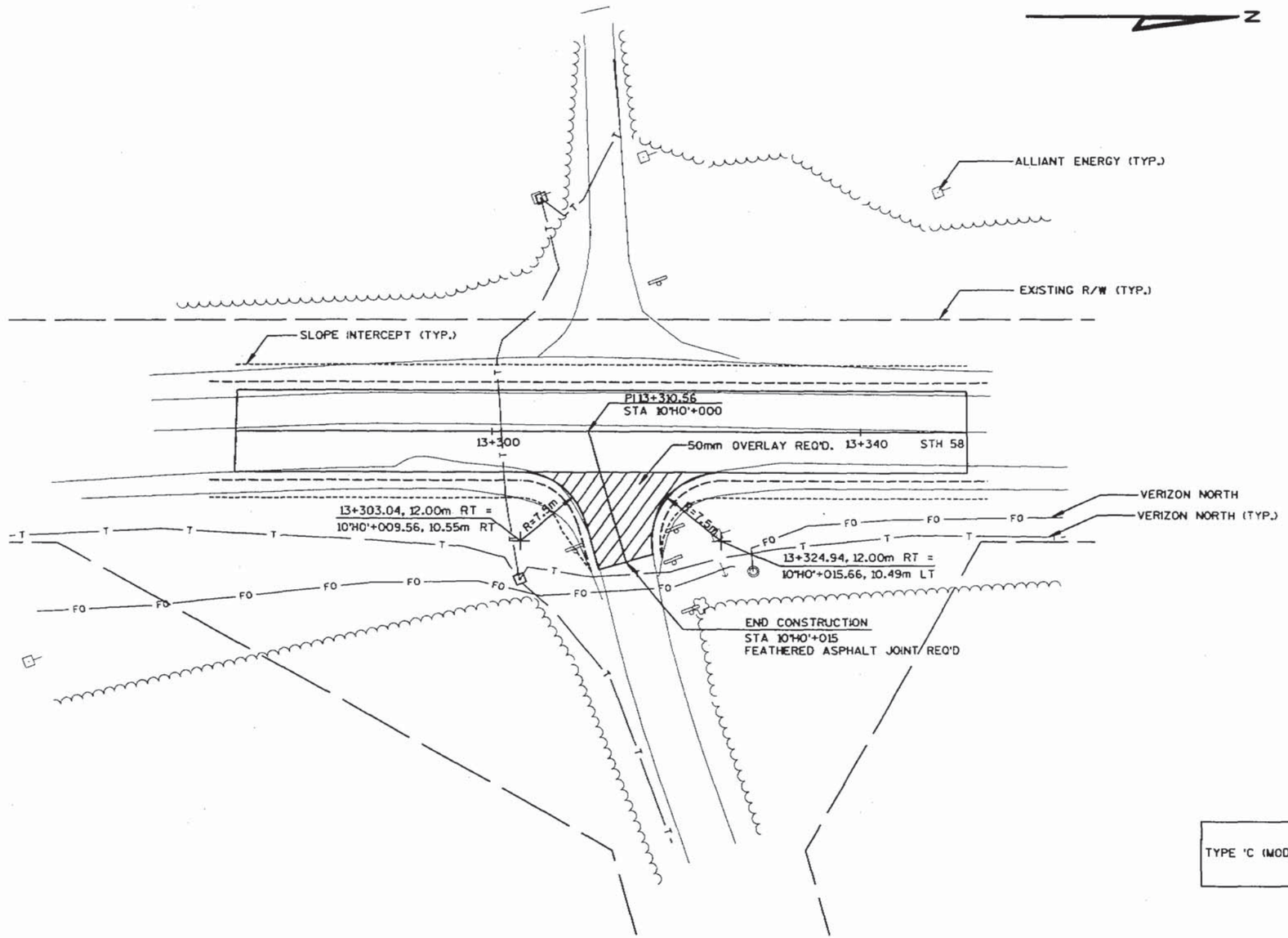
NO.	STATION	DESCRIPTION	OFFSET	ELEV.
1	12+050.26	Nallin Power Pole	14.72RT	98.955
2	12+071.44	Nallin Power Pole	12.59LT	99.430
3	12+056.10	N.E. Corner of First Step	31.41LT	99.825

LEVELS ON - 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,
57,58,59,60,61,62,63

INTERSECTION DETAIL	0 METERS 12.5 25	HWY: S.T.H. 58	COUNTY: JUNEAU	STATE PROJECT NO: 6639-04-71	SHEET NO: 2.12	M

FILE NAME: s:\wSci\051--100\089\495\MICROS\INTERSEC\SHEET02.DGN ORIGINATOR : PLOT DATE : 01/22/2001 PLOT SCALE : TIME: 09:58:15 AM STRAND ASSOCIATES 089-495-

WisDOT: MSHT80



HOWE LANE

INTERSECTION DETAIL	0 METERS 12 25	HWY: S.T.H. 58	COUNTY: JUNEAU	STATE PROJECT NO: 6639-04-71	SHEET NO: 2.13	M

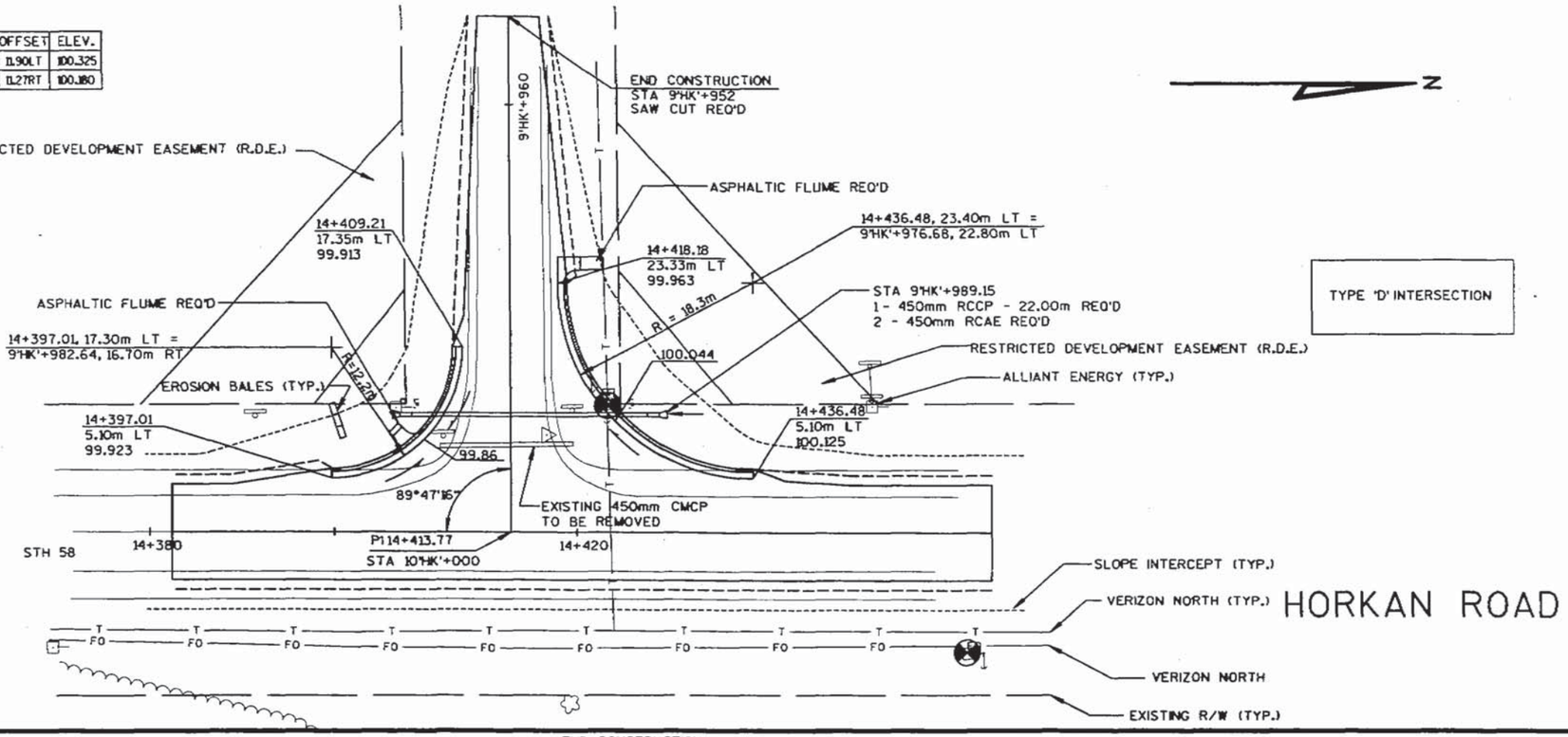
FILE NAME: s:\msd\051--100\089\495\MICROS\INTERSEC\SHEET03.DGN ORIGINATOR : PLOT DATE : 01/22/2001 PLOT SCALE : TIME: 09:58:45 AM STRAND ASSOCIATES 089-495-

LEVELS ON - 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

W:\DOT\ MSHT20

BENCH MARKS

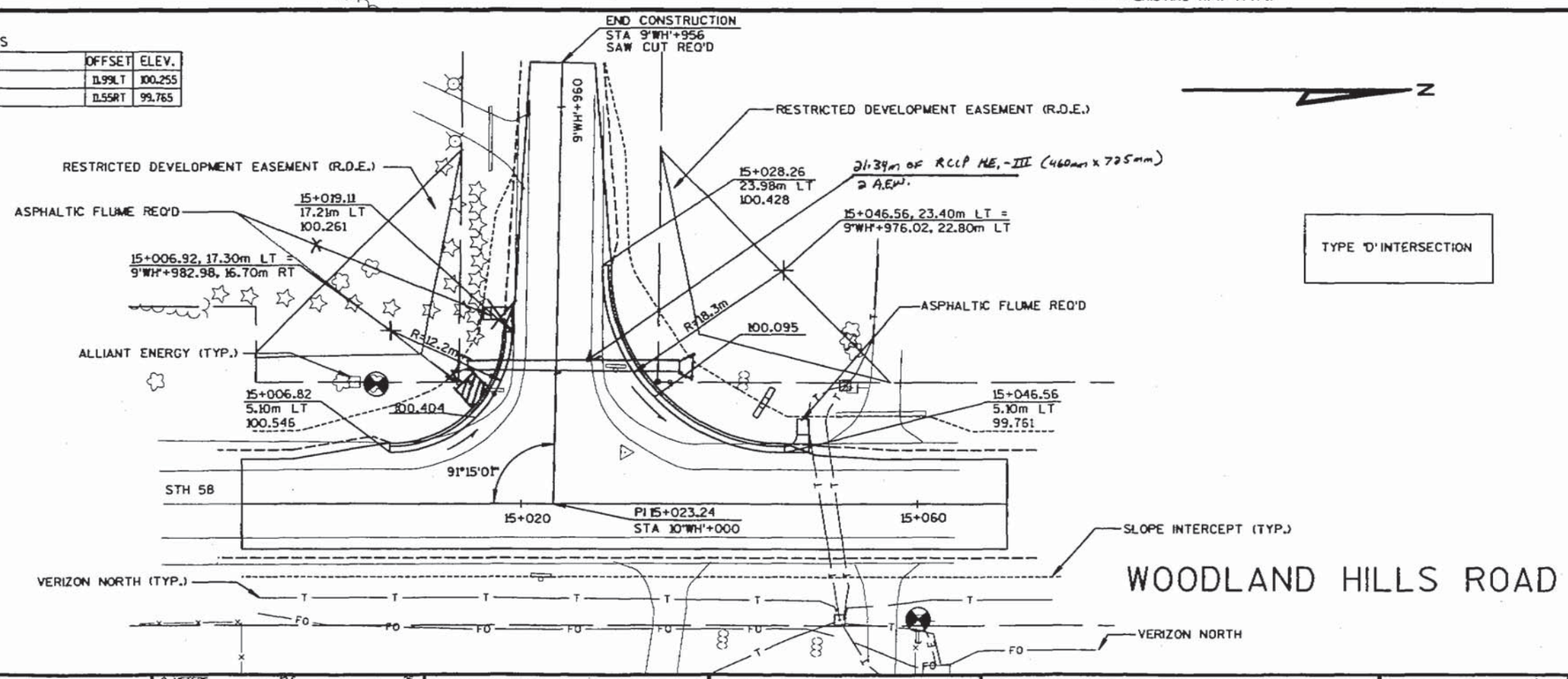
NO.	STATION	DESCRIPTION	OFFSET	ELEV.
1	14+422.86	Mallin Power Pole	11.90LT	100.325
2	14+456.65	Mallin Power Pole	11.27RT	100.180



NOTE: DITCHING PERFORMED APPROXIMATELY 50m SOUTH OF PLAN SLOPE INTERCEPT TO ALLOW FOR PROPER DRAINAGE.

BENCH MARKS

NO.	STATION	DESCRIPTION	OFFSET	ELEV.
1	15+005.48	Mallin Power Pole	11.99LT	100.255
2	15+060.08	Mallin Power Pole	11.55RT	99.765



INTERSECTION DETAIL	0 METERS 12.5 25	HWY: S.T.H. 58	COUNTY: JUNEAU	STATE PROJECT NO: 6639-04-71	SHEET NO: 2.14	M

FILE NAME: s:\MSoi\051--100\089\495\MICROS\INTERSEC\SHEET04.DGN ORIGINATOR : PLOT DATE : 01/22/2001 PLOT SCALE : TIME: 09:59:15 AM STRAND ASSOCIATES 089-495-

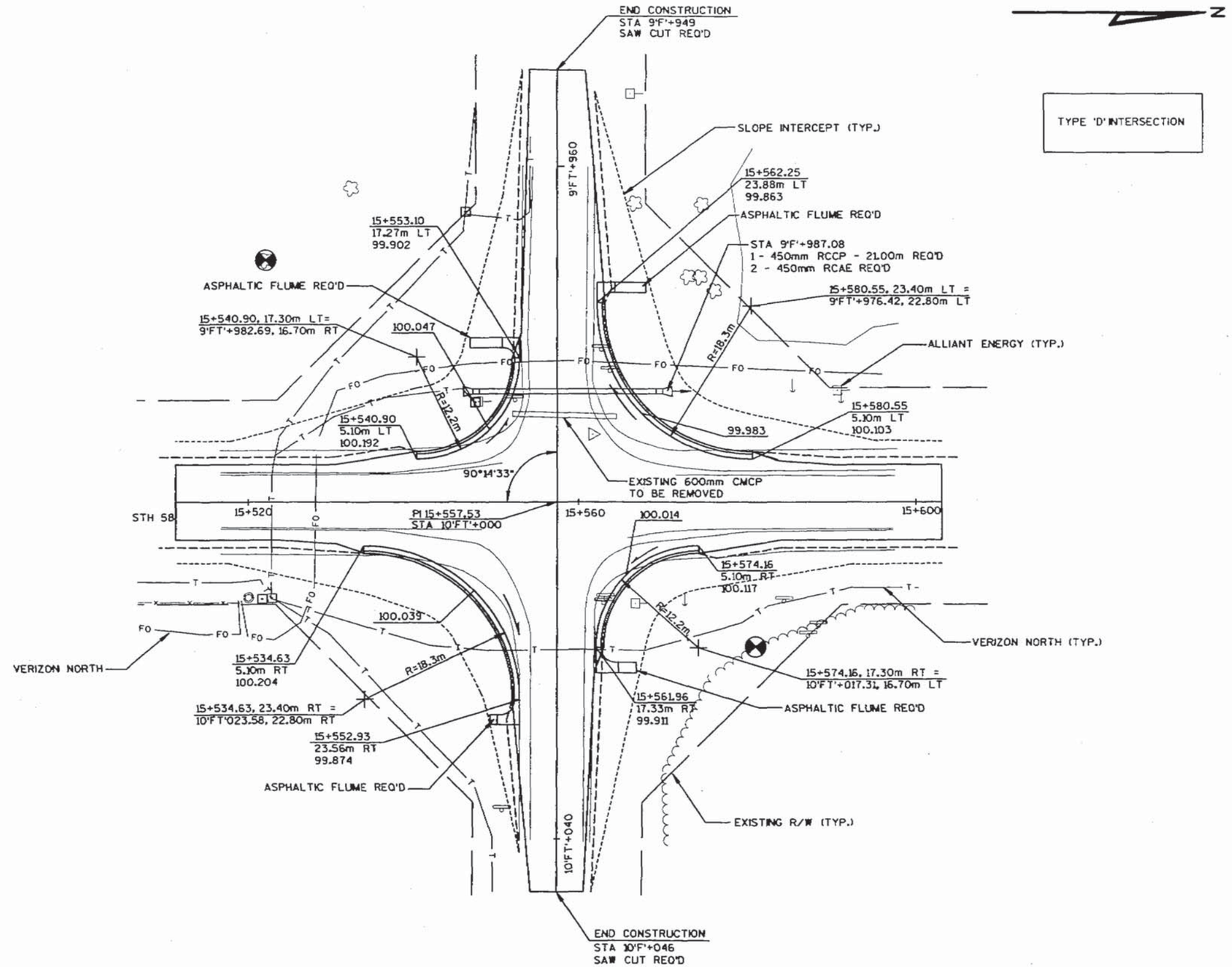
LEVELS ON - 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

WisDOT: MSHT20

BENCH MARKS

NO.	STATION	DESCRIPTION	OFFSET	ELEV.
1	15+523.05	8 Inch Birch Tree	28.91LT	99.720
2	15+580.91	8 Inch Poppler Tree	17.25RT	99.995

MEREDITH ROAD

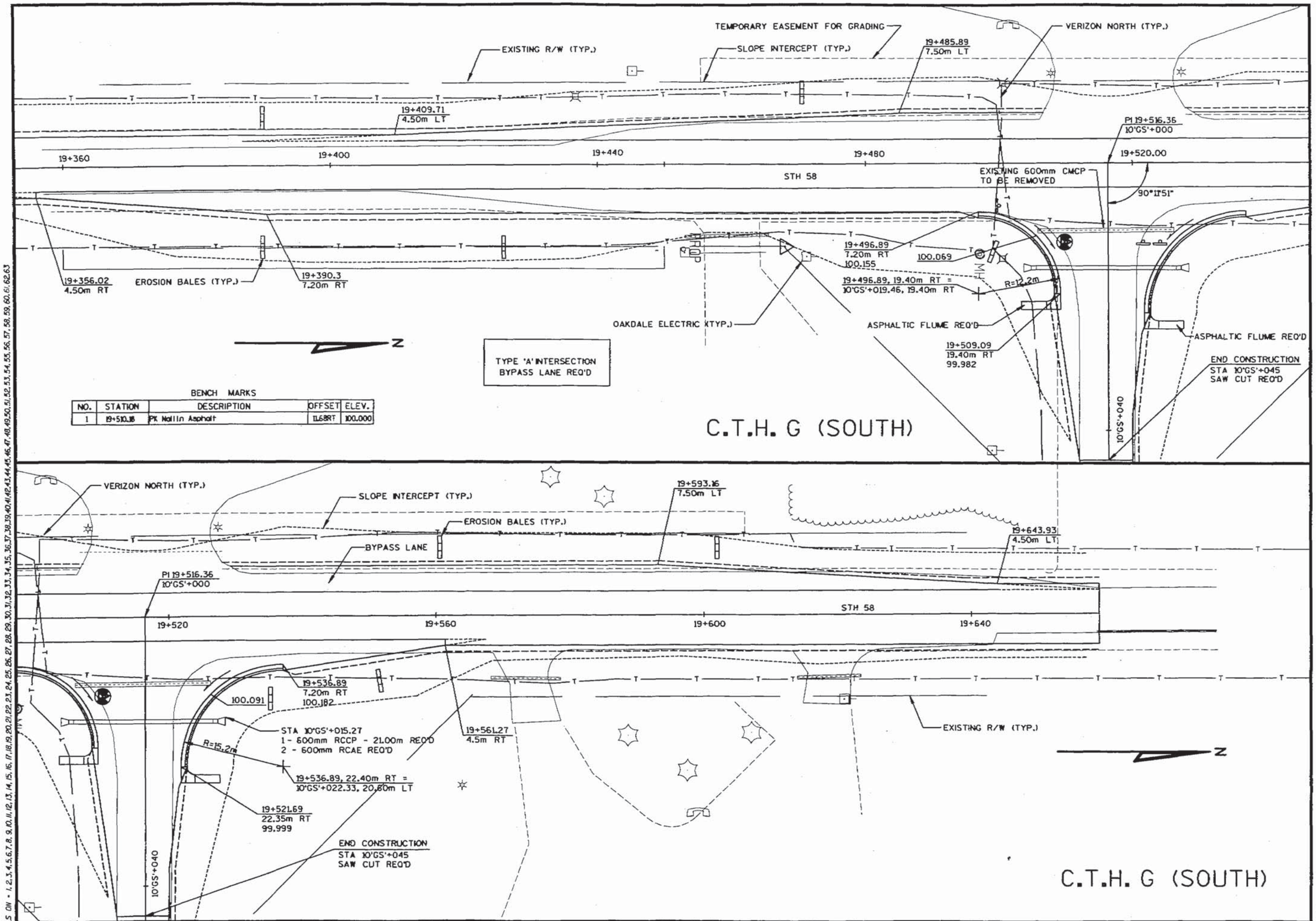


LEVELS ON - 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

WisDOT: MBHT20

INTERSECTION DETAIL	0 METERS 12.5 25	HWY: S.T.H. 58	COUNTY: JUNEAU	STATE PROJECT NO: 6639-04-71	SHEET NO: 2.15	M

FILE NAME: s:\MSdl\051--100\089\495\MICROS\INTERSEC\SHEET05.DGN ORIGINATOR : PLOT DATE : 01/22/2001 PLOT SCALE : TIME: 09:59:50 AM STRAND ASSOCIATES 089-495-



BENCH MARKS

NO.	STATION	DESCRIPTION	OFFSET	ELEV.
1	19+510.18	PK Nail in Asphalt	11.68RT	100.000

LEVELS ON - 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

INTERSECTION DETAIL	0 METERS 12.5 25	HWY: S.T.H. 58	COUNTY: JUNEAU	STATE PROJECT NO: 6639-04-71	SHEET NO: 2.16	M

FILE NAME: s:\MSci\051--100\089\495\MICROS\INTERSEC\SHEET06.DGN ORIGINATOR : PLOT DATE : 01/22/2001 PLOT SCALE : TIME: 10:00:24 AM

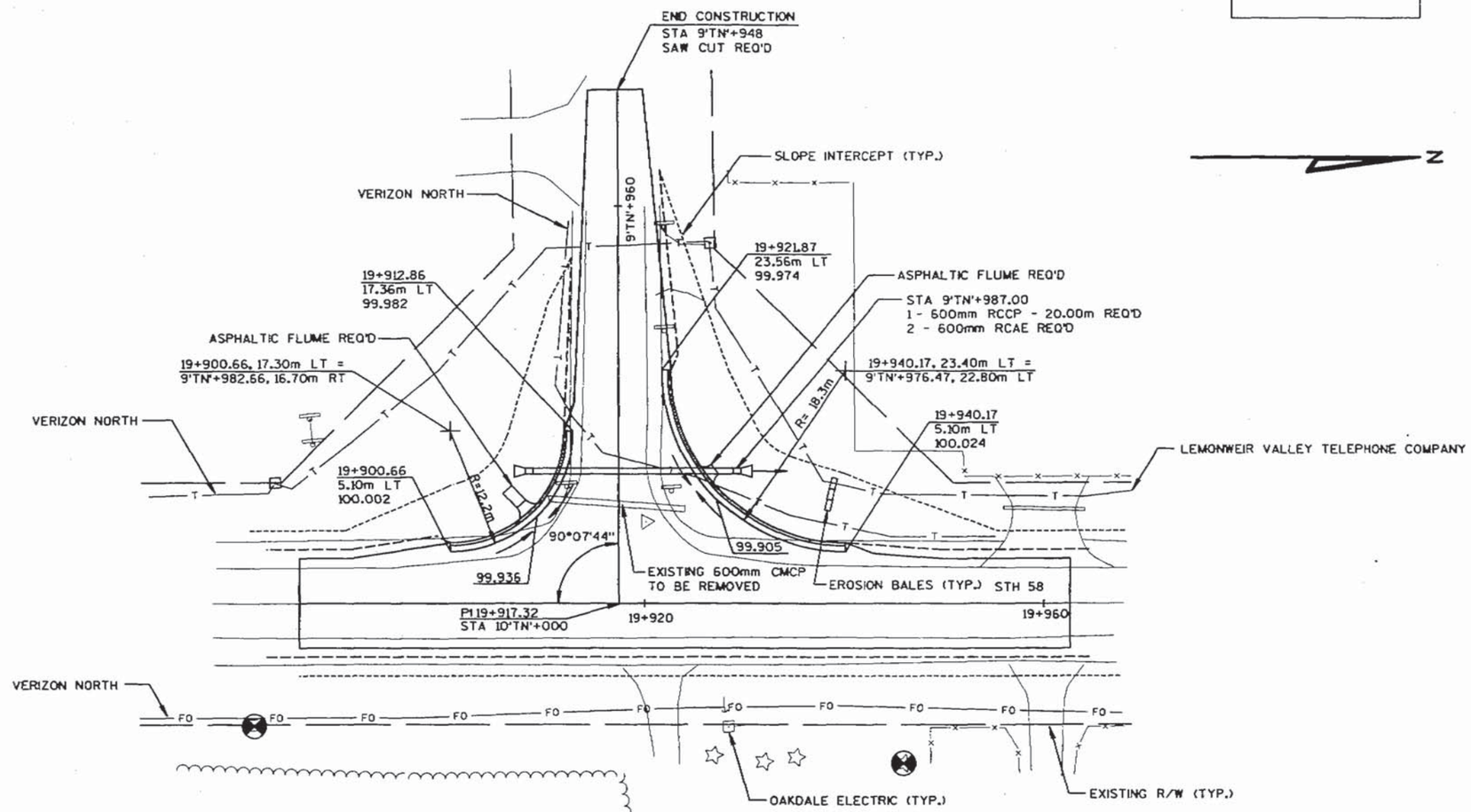
STRAND ASSOCIATES 089-495-

WisDOT: MSHTZO

BENCH MARKS

NO.	STATION	DESCRIPTION	OFFSET	ELEV.
1	19+881.09	Nolin Power Pole	12.31RT.	100.145
2	19+945.98	Nolin Coniferous Tree	16.05RT	100.090

TYPE 'D' INTERSECTION



NOTE: DITCHING WAS PERFORMED TO ALLOW DRAINAGE TO SOUTH. A 450mm CMP AND 2 REH. WERE PLACED AT FIRST DRIVEWAY SOUTH OF 39TH ST ON THE LEFT. DITCHING WAS DONE FOR APPROXIMATELY 50m SOUTH OF THIS DRIVE.

39th STREET

LEVELS ON - 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

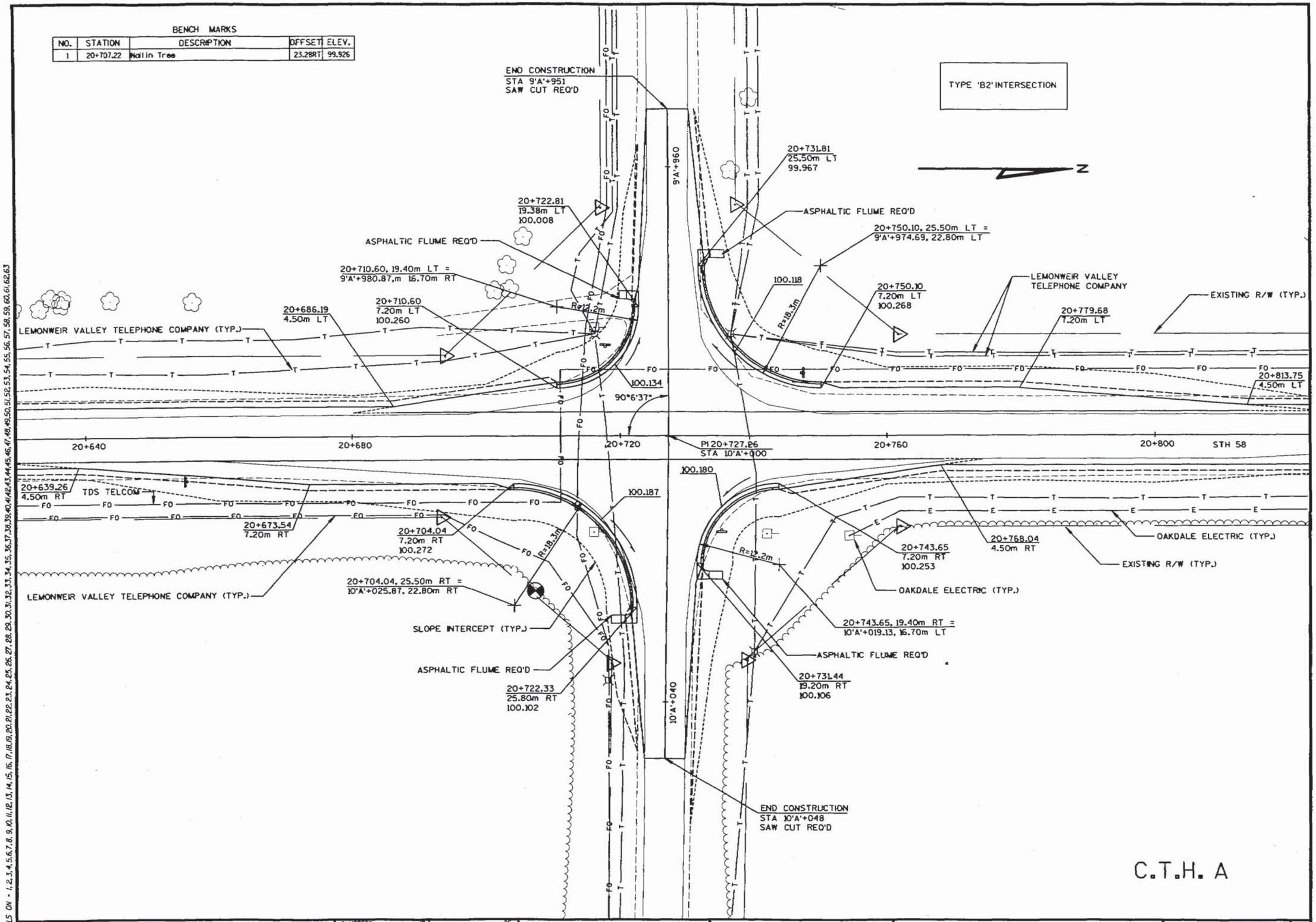
W:\DOT\MSHT20

INTERSECTION DETAIL	0 METERS 12.5 25	HWY: S.T.H. 58	COUNTY: JUNEAU	STATE PROJECT NO: 6639-04-71	SHEET NO: 2.17	M

FILE NAME: s:\aSol\051--100\089\495\MICROS\INTERSEC\SHEET07.DGN ORIGINATOR : PLOT DATE : 01/22/2001 PLOT SCALE : TIME: 10:01:09 AM STRAND ASSOCIATES 089-495-

BENCH MARKS

NO.	STATION	DESCRIPTION	OFFSET	ELEV.
1	20+707.22	Nallin Tree	23.28RT	99.926



LEVELS ON - 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

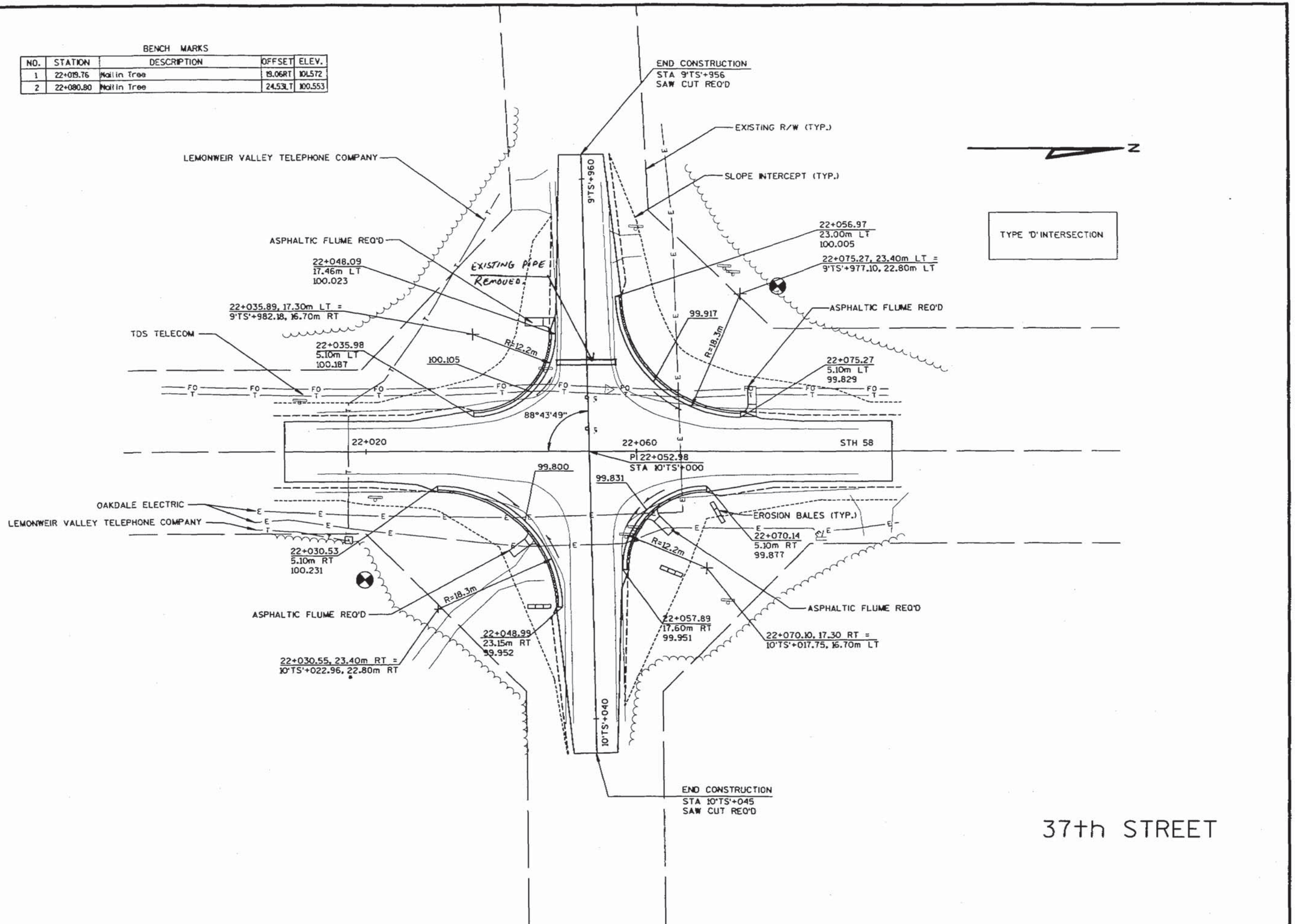
INTERSECTION DETAIL	0 METERS 12.5 25	HWY: S.T.H. 58	COUNTY: JUNEAU	STATE PROJECT NO: 6639-04-71	SHEET NO: 218	M

FILE NAME: s:\05G1\051--100\089\495\MICROS\INTERSEC\SHEET08.DGN ORIGINATOR : PLOT DATE : 01/22/2001 PLOT SCALE : TIME: 10:02:43 AM STRAND ASSOCIATES 089-495-

WisDOT: MSHT20

BENCH MARKS

NO.	STATION	DESCRIPTION	OFFSET	ELEV.
1	22+019.76	Nail in Tree	19.06RT	101.572
2	22+080.80	Nail in Tree	24.53LT	100.553



INTERSECTION DETAIL	0 METERS 12 25	HWY: S.T.H. 58	COUNTY: JUNEAU	STATE PROJECT NO: 6639-04-71	SHEET NO: 2.19	M

FILE NAME: s:\WSdot\051--100\089\495\MICROS\INTERSEC\sheet09.dgn ORIGINATOR : PLOT DATE : 01/22/2001 PLOT SCALE : TIME: 12:54:03 PM STRAND ASSOCIATES 089-495-

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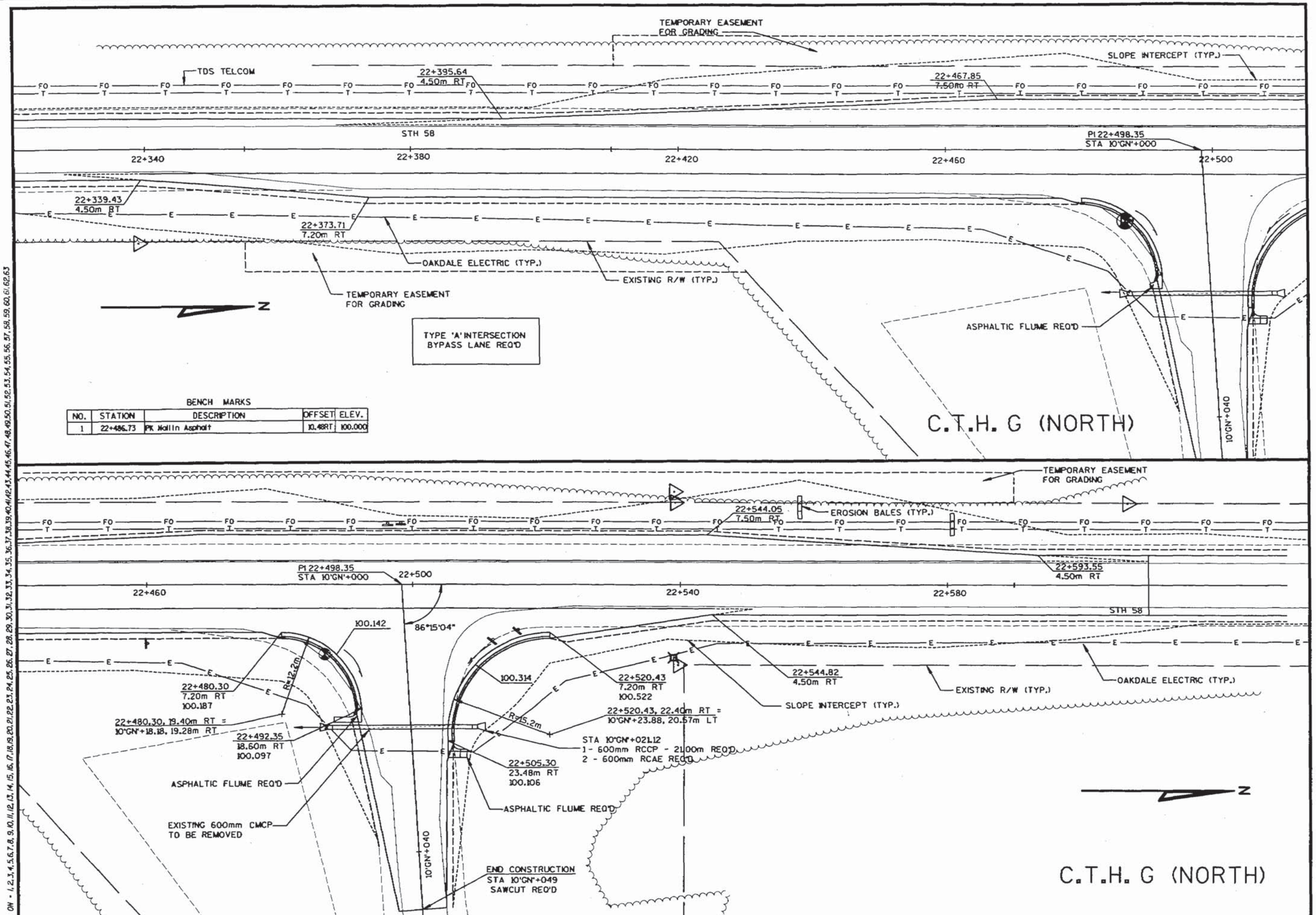
WisDOT: MSHT20



BENCH MARKS

NO.	STATION	DESCRIPTION	OFFSET	ELEV.
1	22+486.73	PK Nail in Asphalt	10.48RT	100.000

LEVELS ON - 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

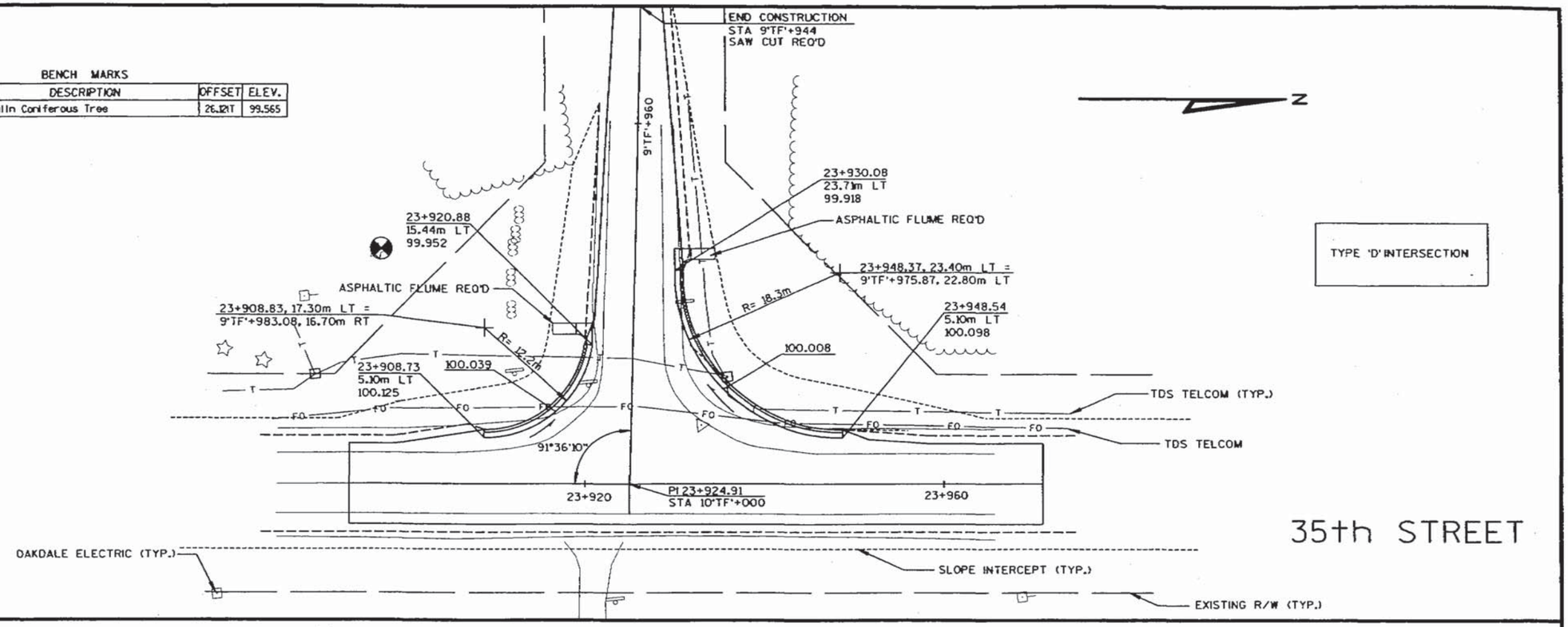
INTERSECTION DETAIL	0 METERS 12.5 25	HWY: S.T.H. 58	COUNTY: JUNEAU	STATE PROJECT NO: 6639-04-71	SHEET NO: 2.20	M

FILE NAME: s:\85oi\051--100\089\495\MICROS\INTERSEC\sheet10.dgn ORIGINATOR : PLOT DATE : 01/22/2001 PLOT SCALE : TIME: 12:53:06 PM STRAND ASSOCIATES 089-495-

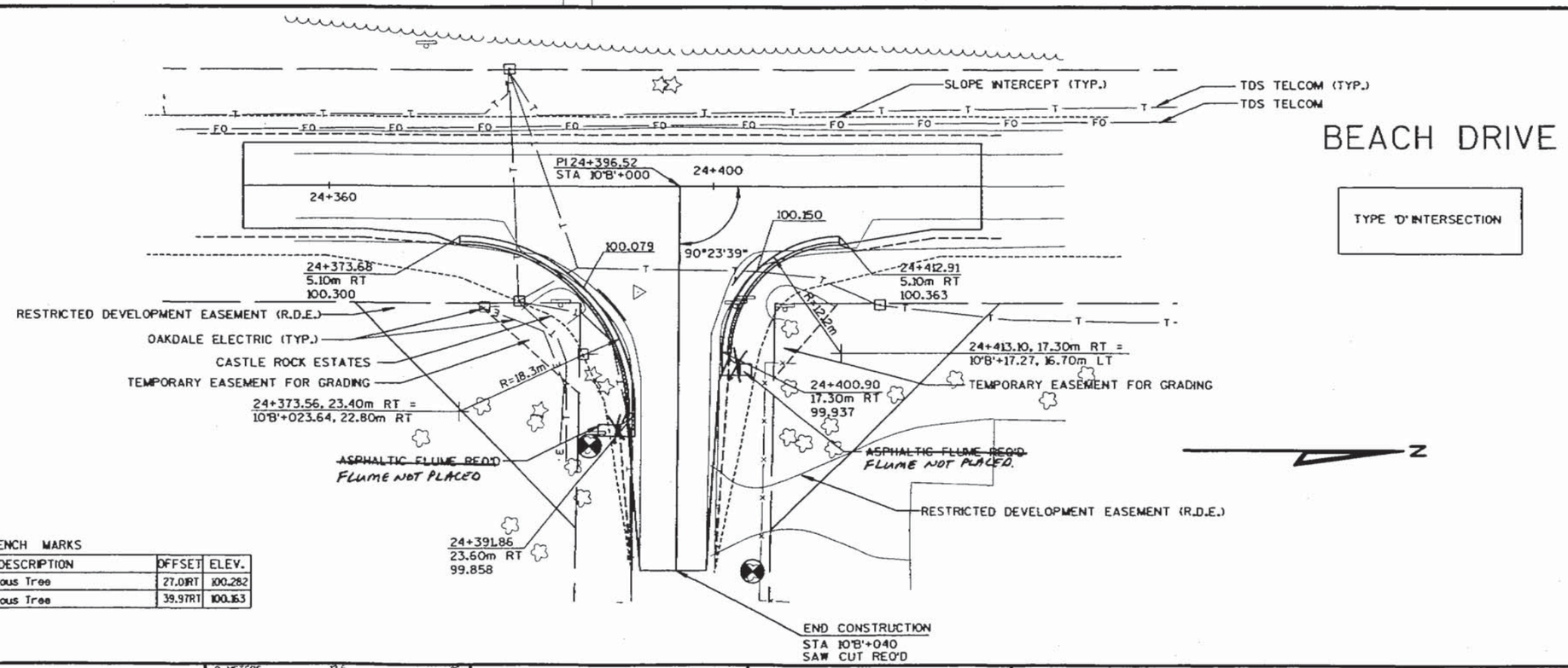
WI DOT: MSHT20

BENCH MARKS

NO.	STATION	DESCRIPTION	OFFSET	ELEV.
1	23+897.41	Nallin Coniferous Tree	26.12RT	99.565



TYPE 'D' INTERSECTION



TYPE 'D' INTERSECTION

BENCH MARKS

NO.	STATION	DESCRIPTION	OFFSET	ELEV.
1	24+387.11	Nallin Decidious Tree	27.01RT	100.282
2	24+404.06	Nallin Decidious Tree	39.97RT	100.163

LEVELS ON - 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

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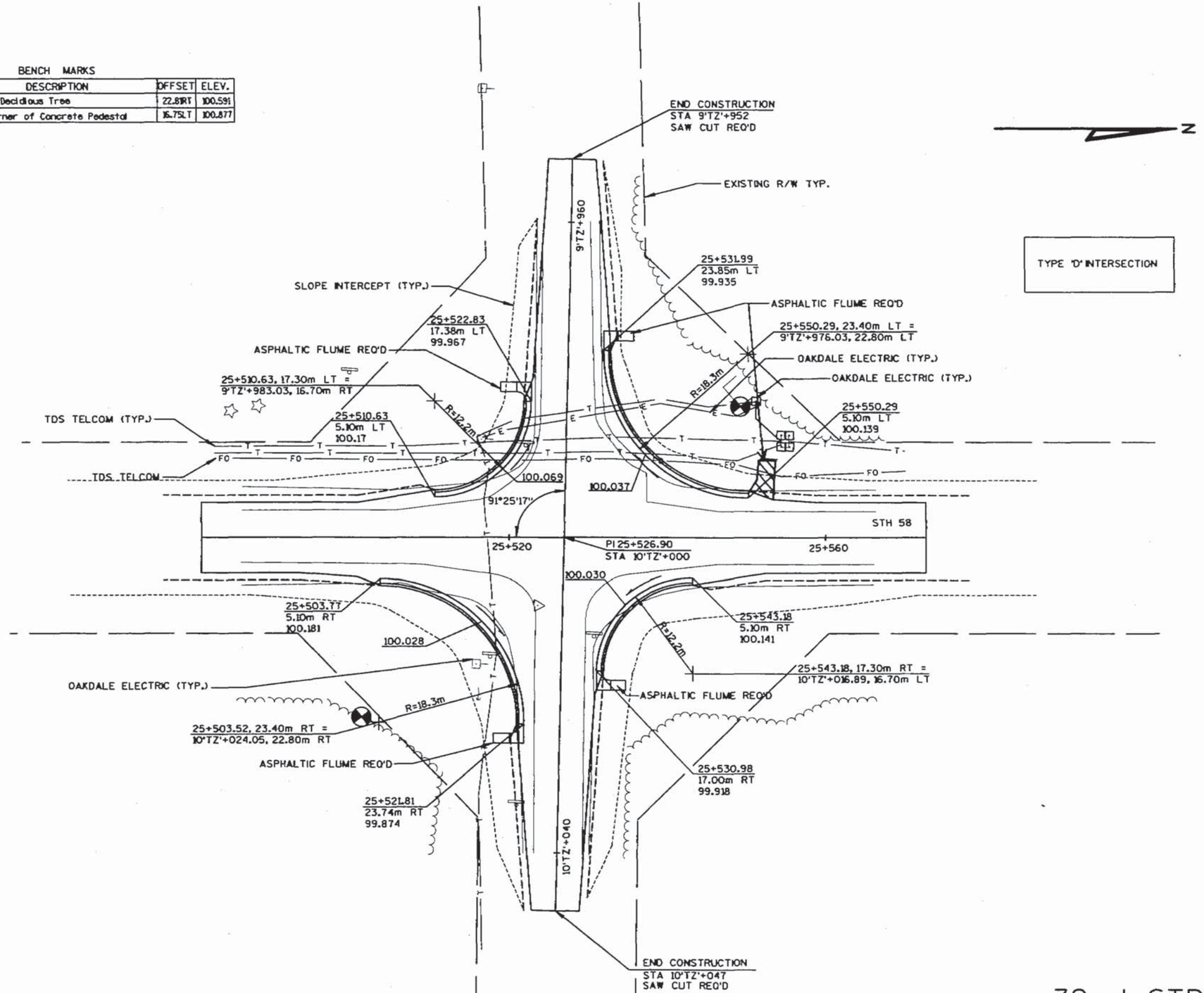
INTERSECTION DETAIL | 0 METERS 12.5 25 | HWY: S.T.H. 58 | COUNTY: JUNEAU | STATE PROJECT NO: 6639-04-71 | SHEET NO: 221 | M

FILE NAME: s:\wSoi\051--100\089\495\MICROS\INTERSEC\sheet11.dgn | ORIGINATOR : | PLOT DATE : 09/29/2000 | PLOT SCALE : | TIME: 10:08:47 AM | STRAND ASSOCIATES 089-495-

BENCH MARKS

NO.	STATION	DESCRIPTION	OFFSET	ELEV.
1	25+501.31	Nail in Deciduous Tree	22.81RT	100.591
2	25+549.31	S.E. Corner of Concrete Pedestal	16.75LT	100.877



INTERSECTION DETAIL	0 METERS 12.5 25	HWY: S.T.H. 58	COUNTY: JUNEAU	STATE PROJECT NO: 6639-04-71	SHEET NO: 222	M

FILE NAME: a:\wdcl\051--100\089\495\MICROS\INTERSEC\sheet12.dgn ORIGINATOR : PLOT DATE : 12/01/2000 PLOT SCALE : TIME: 01:14:29 PM STRAND ASSOCIATES 089-495-

LEVELS ON - 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

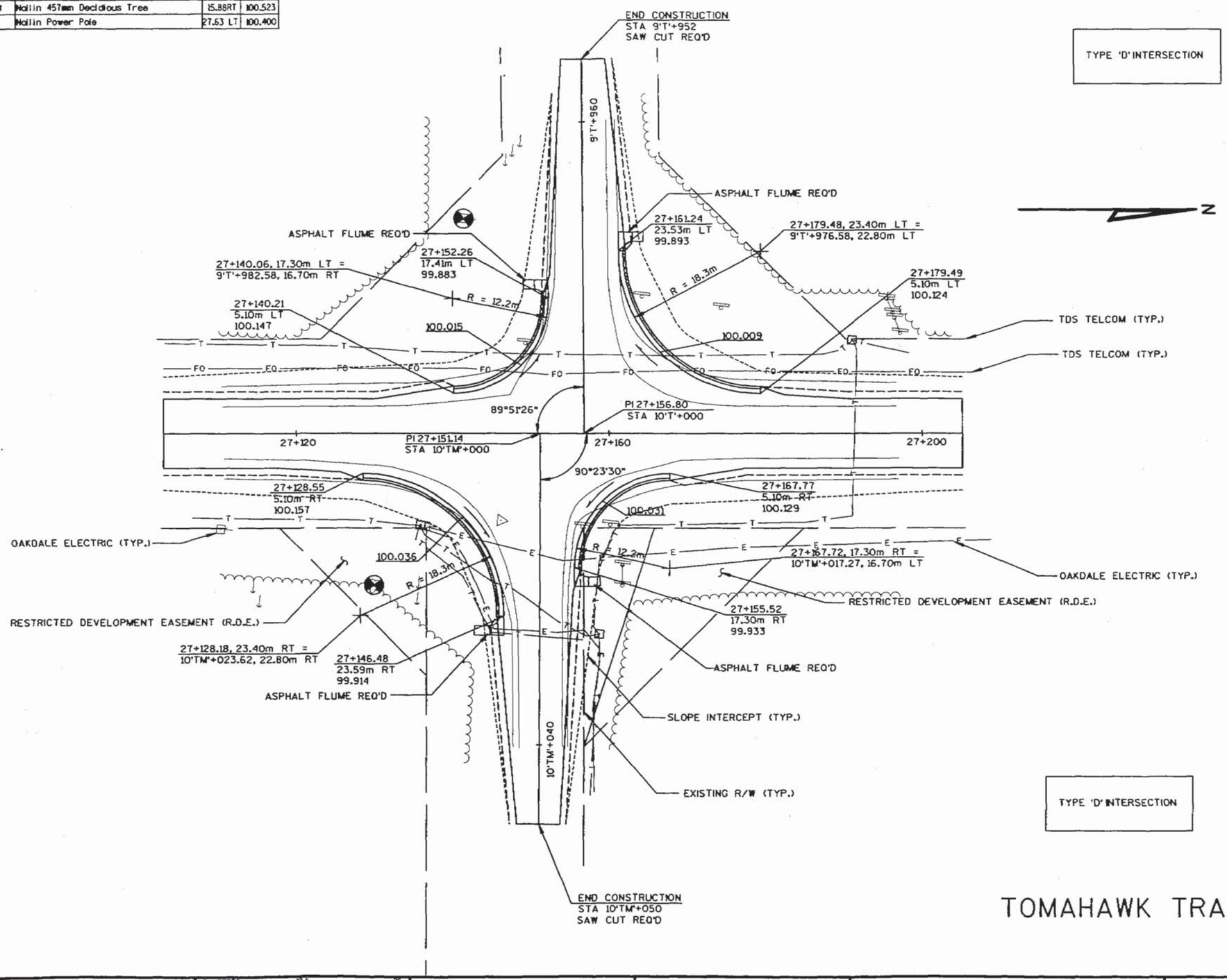
WI-DOT: M3HT20

30th STREET

BENCH MARKS

NO.	STATION	DESCRIPTION	OFFSET	ELEV.
1	25+129.84	Hallin 457mm Deciduous Tree	15.88RT	100.523
2	25+141.44	Hallin Power Pole	27.53 LT	100.400

TYPE 'D' INTERSECTION



TYPE 'D' INTERSECTION

TOMAHAWK TRAIL

LEVELS ON • 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

INTERSECTION DETAIL	0 METERS 12.5 25	HWY: S.T.H. 58	COUNTY: JUNEAU	STATE PROJECT NO: 6639-04-71	SHEET NO: 223	M

FILE NAME: s:\w501\051--100\089\495\MICROS\INTERSEC\sheet14.dgn ORIGINATOR : PLOT DATE : 01/22/2001 PLOT SCALE : TIME: 12:53:47 PM STRAND ASSOCIATES 089-495-

WisDOT: MSHT20

LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	6639-04-71 QUANTITY
0010	20101	CLEARING	40M	6.00	6.00
0020	20104	GRUBBING	40M	6.00	6.00
0030	20330	REMOVING OLD CULVERTS	EACH	6.00	6.00
0040	20411	REMOVING GUARDRAIL	M	35.00	35.00
0050	20419	REMOVING ASPHALTIC SURFACE, BUTT JOINTS	M2	990.00	990.00
0060	21101	PREPARATION OF FOUNDATION FOR ASPHALTIC PAVING	LS	1.00	1.00
0070	21131	PREPARATION OF FOUNDATION FOR ASPHALTIC SHOULDERS	M	33,568.00	33,568.00
0080	21303	FINISHING ROADWAY, PROJECT	LS	1.00	1.00
0090	30404	CRUSHED AGGREGATE BASE COURSE	MG	20,146.40	20,146.40
0100	40204	ASPHALTIC MATERIAL FOR TACK COAT	L	20,001.00	20,001.00
0110	40301	QMP, ASPHALTIC MIXTURE	MG	47,216.00	47,216.00
0120	40501	ASPHALTIC MATERIAL FOR PLANT MIXES	MG	2,838.20	2,838.20
0130	40722	ASPHALTIC CONCRETE PAVEMENT, TYPE E-1	MG	47,296.00	47,296.00
0140	40728	DENSITY INCENTIVE, ASPHALTIC CONCRETE PAVEMENT	DOL	33,385.00	33,385.00
0150	41021	SALVAGED ASPHALTIC PAVEMENT, MILLING	M2	6,370.00	6,370.00
0160	52203	REINFORCED CONCRETE CULVERT PIPE, CLASS III, 450 MM	M	82.10	82.10
0170	52205	REINFORCED CONCRETE CULVERT PIPE, CLASS III, 600 MM	M	33.50	33.50
0180	52207	REINFORCED CONCRETE CULVERT PIPE, CLASS III, 750 MM	M	16.00	16.00
0190	52209	REINFORCED CONCRETE CULVERT PIPE, CLASS III, 900 MM	M	16.80	16.80
0200	52229	REINFORCED CONCRETE CULVERT PIPE, CLASS IV, 600 MM	M	140.30	140.30
0210	52230	REINFORCED CONCRETE CULVERT PIPE, CLASS IV, 675 MM	M	16.20	16.20
0220	52231	REINFORCED CONCRETE CULVERT PIPE, CLASS IV, 750 MM	M	16.70	16.70
0230	52237	REINFORCED CONCRETE CULVERT PIPE, CLASS IV, 1500 MM	M	14.10	14.10
0240	52262	REINFORCED CONCRETE APRON ENDWALLS FOR CULVERT PIPE, 450 MM	EACH	8.00	8.00
0250	52264	REINFORCED CONCRETE APRON ENDWALLS FOR CULVERT PIPE, 600 MM	EACH	20.00	20.00
0260	52265	REINFORCED CONCRETE APRON ENDWALLS FOR CULVERT PIPE, 675 MM	EACH	2.00	2.00
0270	52266	REINFORCED CONCRETE APRON ENDWALLS FOR CULVERT PIPE, 750 MM	EACH	4.00	4.00

LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	6639-04-71 QUANTITY
0280	52267	REINFORCED CONCRETE APRON ENDWALLS FOR CULVERT PIPE, 900 MM	EACH	2.00	2.00
0290	52271	REINFORCED CONCRETE APRON ENDWALLS FOR CULVERT PIPE, 1500 MM	EACH	2.00	2.00
0300	52370	REINFORCED CONCRETE APRON ENDWALLS FOR HORIZONTAL ELLIP. CULVERT PIPE, 1220 X 1920 MM	EACH	6.00	6.00
0310	60170	CONCRETE CURB AND GUTTER, 900 MM, TYPE D	M	962.13	962.13
0320	61801	MAINTENANCE AND REPAIR OF HAUL ROADS	LS	1.00	1.00
0330	61910	MOBILIZATION	LS	1.00	1.00
0340	62203	ASPHALTIC FLUMES	M2	187.30	187.30
0350	62401	WATER	KL	1,000.00	1,000.00
0360	62702	MULCHING	M2	66,060.00	66,060.00
0370	62811	EROSION BALES, DELIVERED	EACH	80.00	80.00
0380	62812	EROSION BALES, INSTALLED	EACH	80.00	80.00
0390	62815	SILT FENCE, DELIVERED	M	194.00	194.00
0400	62816	SILT FENCE, INSTALLED	M	194.00	194.00
0410	62817	SILT FENCE MAINTENANCE	M	194.00	194.00
0420	62819	MOBILIZATIONS, EROSION CONTROL	EACH	3.00	3.00
0430	62821	MOBILIZATIONS, EMERGENCY EROSION CONTROL	EACH	2.00	2.00
0440	62824	EROSION MAT, DELIVERED, CLASS I, TYPE B	M2	815.00	815.00
0450	62825	EROSION MAT, INSTALLED, CLASS I, TYPE B	M2	815.00	815.00
0460	62905	FERTILIZER, TYPE B	KG	2,891.00	2,891.00
0470	63003	SEEDING, TEMPORARY	KG	1,238.00	1,238.00
0480	63009	SEEDING, MIXTURE NO. 20	KG	1,238.00	1,238.00
0490	63822	MOVING SIGNS, TYPE II	EACH	43.00	43.00
0500	64210	FIELD LABORATORY	LS	1.00	1.00
0510	64220	FIELD OFFICE, TYPE C	LS	1.00	1.00
0520	64301	TRAFFIC CONTROL	LS	1.00	1.00
0530	64313	TRAFFIC CONTROL, DRUMS	DAYS	11,700.00	11,700.00
0540	64317	TRAFFIC CONTROL, BARRICADES, TYPE II	DAYS	660.00	660.00
0550	64318	TRAFFIC CONTROL, BARRICADES, TYPE III	DAYS	672.00	672.00
0560	64321	TRAFFIC CONTROL, WARNING LIGHTS, TYPE A	DAYS	672.00	672.00
0570	64326	TRAFFIC CONTROL, SIGNS	DAYS	3,764.00	3,764.00
0580	64602	PAVEMENT MARKING, 100 MM, EPOXY	M	35,280.00	35,280.00

LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	6639-04-71 QUANTITY
0590	64618	PAVEMENT MARKING, CHANNELIZING, 200 MM, EPOXY	M	250.00	250.00
0600	64625	PAVEMENT MARKING, SAME DAY, 100 MM, PAINT	M	2,878.00	2,878.00
0610	64626	PAVEMENT MARKING, SAME DAY, 100 MM, EPOXY	M	10,053.00	10,053.00
0620	64636	LOCATING NO-PASSING ZONES	KM	17.99	17.99
0630	64710	PAVEMENT MARKING, STOP LINE, 450 MM, EPOXY	M	36.00	36.00
0640	65045	CONSTRUCTION STAKING, SUBGRADE	M	360.00	360.00
0650	65055	CONSTRUCTION STAKING, CURB, GUTTER, AND CURB AND GUTTER	M	962.13	962.13
0660	65060	CONSTRUCTION STAKING, PIPE CULVERTS	EACH	22.00	22.00
0670	65080	CONSTRUCTION STAKING, RESURFACING REFERENCE	M	17,989.00	17,989.00
0680	66501	SAWING EXISTING PAVEMENT	M	654.70	654.70
0690	90001	MISC 90001A-RCHECP CLASS HE-IV, 1220 X 1920MM SPECIAL	M	45.10	45.10
0700	90002	MISC 90002A-PULVERIZE & GRADE EXISTING ASPHALTIC SURFACE	M2	10,057.07	10,057.07
0710	90004	MISC 90004A-GRADE, SHAPE & FINISH INTRSCTN, MEYER ROAD	LS	1.00	1.00
0720	90004	MISC 90004B-GRADE, SHAPE & FINISH INTRSCTN, FAIRWAY LANE	LS	1.00	1.00
0730	90004	MISC 90004C-GRADE,SHAPE, FINISH INTRSCTN, 47TH STREET	LS	1.00	1.00
0740	90004	MISC 90004D-GRADE, SHAPE,FINISH INTRSCTN, WELCH PRAIRIE ROAD	LS	1.00	1.00
0750	90004	MISC 90004E-GRADE, SHAPE, FINISH, INTRSCTIN, HORKAN ROAD	LS	1.00	1.00
0760	90004	MISC 90004F-GRADE,SHAPE,FINISH,INTRSCTN, WOODLAND HILLS ROAD	LS	1.00	1.00
0770	90004	MISC 90004G-GRADE,SHAPE,FINISH, INTRSCTN, MEREDITH ROAD	LS	1.00	1.00
0780	90004	MISC 90004H-GRADE,SHAPE,FINISH, INTRSCTN, 43RD STREET	LS	1.00	1.00
0790	90004	MISC 90004I-GRADE,SHAPE,FINISH, INTRSCTN, CTH G (SOUTH)	LS	1.00	1.00
0800	90004	MISC 90004J-GRADE,SHAPE,FINISH, INTRSCTN, 39TH STREET	LS	1.00	1.00
0810	90004	MISC 90004K-GRADE,SHAPE,FINISH,INTRSCTN, CTH A	LS	1.00	1.00
0820	90004	MISC 90004L-GRADE,SHAPE,FINISH, INTRSCTN, 37TH STREET	LS	1.00	1.00

LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	6639-04-71 QUANTITY
0830	90005	MISC 90005A-SHAPE,TOPSOIL & FINISH CROSSDRAIN REPLACEMENTS	EACH	22.00	22.00
0840	90006	MISC 90006A-ASPHALTIC PVMNT FOR CROSSDRAIN REPLACEMENTS	MG	95.00	95.00
0850	90006	MISC 90006B, QUALITY MANAGEMENT PROGRAM NUCLEAR DENSITY FOR ASPHALTIC PAVEMENT	MG	47,296.00	47,296.00
0860	90338	GRADING, SHAPING & FINISHING INTERSECTION, INTERSECTION, CTH G (NORTH)	LS	1.00	1.00
0870	90339	GRADING, SHAPING & FINISHING INTERSECTION, INTERSECTION, 35TH STREET	LS	1.00	1.00
0880	90340	GRADING, SHAPING & FINISHING INTERSECTION, INTERSECTION, BEACH DRIVE	LS	1.00	1.00
0890	90341	GRADING, SHAPING & FINISHING INTERSECTION, INTERSECTION, 32ND STREET	LS	1.00	1.00
0900	90342	GRADING, SHAPING & FINISHING INTERSECTION, INTERSECTION, 30TH STREET	LS	1.00	1.00
0910	90343	GRADING, SHAPING & FINISHING INTERSECTION, INTERSECTION, TOMAHAWK TRAIL	LS	1.00	1.00
0920	90357	PULVERIZE AND RELAY EXISTING BASE AND SURFACE	M2	167,932.00	167,932.00
0930	90365	QMP, BASE COURSES	MG	20,146.00	20,146.00
0940	90394	PROFILOGRAPH (ASPHALTIC PAVEMENT)	LS	1.00	1.00
0950	90616	MARKER POSTS, FLEXIBLE, FOR CULVERT END	EACH	44.00	44.00

REMOVING OLD CULVERTS

CATEGORY	STATION	LOCATION	EACH
010	~~9'F'+990.50~~	~~FAIRWAY LANE~~	~~1~~
	9'HK'+992.00	HORKAN ROAD	1
	9'F'+987.00	MEREDITH ROAD	1
	10'GS'+015.50	C.T.H. G (SOUTH)	1
	9'TN'+990.00	39th STREET	1
	10'GN'+021.50	C.T.H. G (NORTH)	1
	WOODLAND HILLS, 37th & 47th, PE		4
		TOTAL	10

REMOVING GUARDRAIL

CATEGORY	STATION - STATION	LOCATION	m
~~010~~	~~9'W'+960-9'W'+990~~	~~RT~~	~~35~~

PREPARATION OF FOUNDATION FOR ASPHALTIC SHOULDERS

CATEGORY	STATION - STATION	LOCATION	LENGTH m
010	9+440 - 9+584	RT	144
	9+440 - 9+452	LT	12
	9+494 - 9+584	LT	90
	9+987 - 11+654	RT	1667
	9+987 - 11+260	LT	1273
	11+300 - 12+063	LT	763
	11+693 - 13+303	RT	1610
	12+102 - 14+397	LT	2295
	13+325 - 15+535	RT	2210
	14+436 - 15+007	LT	571
	15+047 - 15+541	LT	494
	15+574 - 19+360	RT	3786
	15+580 - 19+410	LT	3830
	19+560 - 20+640	RT	1080
	19+644 - 19+901	LT	257
	19+940 - 20+686	LT	746
	20+768 - 22+031	RT	1263
	20+814 - 22+036	LT	1222
	22+070 - 22+339	RT	269
	22+075 - 22+396	LT	321
	22+545 - 24+374	RT	1829
	22+594 - 23+909	LT	1315
	23+949 - 25+511	LT	1562
	24+413 - 25+504	RT	1091
	25+543 - 27+129	RT	1586
	25+550 - 27+140	LT	1590
	27+168 - 27+520	RT	352
	27+180 - 27+520	LT	340
	TOTAL		33568

CLEARING AND GRUBBING

CATEGORY	STATION - STATION	LOCATION	CLEARING 40 m	GRUBBING 40 m
010	~~9'F'+960-10'F'+000~~	~~FAIRWAY LANE~~	~~1~~	~~1~~
	9'WP'+960-10'WP'+000	WELCH PRAIRIE	1	1
	9'WH'+960-10'WH'+000	WOODLAND HILLS	1	1
	22+340-22+420	CTH G NORTH	2	2
	9'TF'+960-10'TF'+000	35TH STREET	1	1
		TOTAL:	~~6~~ 5	~~6~~ 5

CRUSHED AGGREGATE BASE COURSE

CATEGORY	STATION-STATION	LOCATION	CRUSHED AGGREGATE BASE COURSE Mg	OMP BASE COURSES Mg	REMARKS
010	9+440-9+584	RT	28.7	28.7	SHOULDERS
	9+440-9+584	LT	28.7	28.7	SHOULDERS
	9+987-11+317	RT	265.3	265.3	SHOULDERS
	9+987-11+317	LT	265.3	265.3	SHOULDERS
	11+317-19+356	RT	3607.0	3607.0	SHOULDERS
	11+317-19+410	LT	3631.0	3631.0	SHOULDERS
	19+356-19+561	RT	466.0	466.0	SHOULDERS & WIDENING
	19+410-19+644	LT	628.0	628.0	SHOULDERS & WIDENING
	19+561-20+640	RT	484.0	484.0	SHOULDERS
	19+644-20+686	LT	468.0	468.0	SHOULDERS
	20+640-20+768	RT	276.0	276.0	SHOULDERS & WIDENING
	20+686-20+814	LT	257.0	257.0	SHOULDERS & WIDENING
	20+768-22+339	RT	706.0	706.0	SHOULDERS
	20+814-22+396	LT	710.0	710.0	SHOULDERS
	22+339-22+545	RT	508.0	508.0	SHOULDERS & WIDENING
	22+396-22+594	LT	557.0	557.0	SHOULDERS & WIDENING
	22+545-27+520	RT	2232.0	2232.0	SHOULDERS
	22+594-27+520	LT	2210.0	2210.0	SHOULDERS
	9'W'+941-9'W'+995	LT & RT	46.6	46.6	MEYER ROAD
	9'F'+955-9'F'+995	LT & RT	109.0	109.0	FAIRWAY LANE
	10'FS'+005-10'FS'+045	LT & RT	78.8	78.8	47th STREET
	9'WP'+950-9'WP'+995	LT & RT	85.8	85.8	WELCH PRAIRIE ROAD
	10'HO'+005 -10'HO'+015	LT & RT	9.7	9.7	HOWE LANE
	9'HK'+952-9'HK'+995	LT & RT	91.9	91.9	HORKAN ROAD
	9'WH'+956-9'WH'+995	LT & RT	89.9	89.9	WOODLAND HILLS ROAD
	9'FT'+949-9'FT'+995	LT & RT	83.8	83.8	MEREDITH ROAD
	10'FT'+005-10'FT'+046	LT & RT	98.8	98.8	43rd STREET
	10'GS'+007-10'GS'+045	LT & RT	86.8	86.8	CTH G (SOUTH)
	9'TN'+948-9'TN'+995	LT & RT	76.5	76.5	39TH STREET
	9'A'+951-9'A'+993	LT & RT	74.8	74.8	CTH A (WEST)
	10'A'+007-10'A'+048	LT & RT	48.1	48.1	CTH A (EAST)
	9'TS'+956-9'TS'+995	LT & RT	66.5	66.5	37th STREET (WEST)
	10'TS'+005-10'TS'+045	LT & RT	52.0	52.0	37th STREET (EAST)
	10'GN'+007-10'GN'+049	LT & RT	78.7	78.7	CTH G (NORTH)
	9'TF'+944-9'TF'+995	LT & RT	72.7	72.7	35th STREET
	10'B'+005-10'B'+040	LT & RT	41.3	41.3	BEACH DRIVE
	9'TZ'+952-9'TZ'+995	LT & RT	63.2	63.2	32nd STEET (WEST)
	10'TZ'+005-10'TZ'+047	LT & RT	88.2	88.2	32nd STREET (EAST)
	9'T'+952-9'T'+995	LT & RT	56.2	56.2	30th STREET
	10'TM'+005-10'TM'+050	LT & RT	64.2	64.2	TOMAHAWK TRAIL
	VARIOUS	LT & RT	725.0	725.0	CABC DRIVEWAYS (145)
	VARIOUS	LT & RT	40.0	40.0	ACP DRIVEWAYS (20)
	VARIOUS	LT & RT	190.0	190.0	CULVERT INSTALLATONS (22)
	UNDISTRIBUTED		300.0	300.0	
	TOTAL		20146.4	20146.4	

~~SALVAGED ASPHALTIC PAVEMENT, MILLING~~

CATEGORY	STATION-STATION	LENGTH	m2
010	9+584-9+736	152	1398
	9+826-9+987	161	1481
	13+070-14+128	1058	3491 *
		TOTAL	6370

* MILL HIGH SIDE OF SUPERELEVATED SECTION, PLACE ON LOW SIDE

MOBILIZATIONS, EROSION CONTROL

CATEGORY	STATION-STATION	EACH
010	9+440-27+520	3

~~REMOVING ASPHALTIC SURFACE, BUTT JOINTS~~

CATEGORY	STATION-STATION	m2
010	9+448-9+465	165
	9+584-9+569	165
	9+987-10+012	165
	27+495-27+520	165
	SIDE ROADS	330
	TOTAL	990

MOBILIZATIONS, EMERGENCY EROSION CONTROL

CATEGORY	STATION - STATION	EACH
010	9+440-27+520	2

LEVELS ON • 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

W:\DOT: MSHT20

MISCELLANEOUS QUANTITIES	0 METERS — MS	HWY: S.T.H. 58	COUNTY: JUNEAU	STATE PROJECT NO: 6639-04-71	SHEET NO: 3.A	M

FILE NAME: s:\dscl\051--100\089\495\MICROS\quantity.dgn ORIGINATOR : PLOT DATE : 01/22/2001 PLOT SCALE : TIME: 12:03:14 AM STRAND ASSOCIATES

ASPHALTIC ITEMS

CATEGORY	STATION-STATION	LOCATION	ASPHALTIC CONC. PAVEMENT, TYPE E-1 Mg	ASPHALTIC MATERIAL FOR PLANT MIXES Mg	TACK COAT L	QUALITY MANAGEMENT PROGRAM, ASPHALTIC MIXTURE Mg
010	9+440-9+584	MAINLINE	416	25.0	166	416
	9+584-9+736	MAINLINE	275	16.5	168	275
	9+826-9+987	MAINLINE	291	17.5	178	291
	9+987-11+317	MAINLINE	3838	230.3	1533	3838
	11+317-19+356	MAINLINE	20468	1228.1	8176	20468
	19+356-19+644	MAINLINE (CTH G SOUTH)	1016	61.0	406	1016
	19+644-20+639	MAINLINE	2533	152.0	1012	2533
	20+639-20+814	MAINLINE (CTH A)	604	36.2	241	604
	20+814-22+339	MAINLINE	3883	233.0	1551	3883
	22+339-22+594	MAINLINE (CTH G NORTH)	912	54.7	364	912
	22+594-22+615	MAINLINE	53	3.2	21	53
	22+615-27+520	MAINLINE	10860	651.6	4988	10860
	9'M'+941-9'M'+995	MEYER ROAD	107	6.4	66	107
	9'F'+955-9'F'+995	FAIRWAY LANE	82	4.9	50	82
	10'FS'+005-10'FS'+045	47th STREET	88	5.3	54	88
	9'WP'+950-9'WP'+995	WELCH PRAIRIE ROAD	95	5.7	58	95
	10'HO'+005 -10'HO'+015	HOWE LANE	11	0.7	10	11
	9'HK'+952-9'HK'+995	HORKAN ROAD	91	5.5	56	91
	9'WH'+956-9'WH'+995	WOODLAND HILLS ROAD	88	5.3	54	88
	9'FT'+949-9'FT'+995	MEREDITH ROAD	99	5.9	61	99
	10'FT'+005-10'FT'+046	43rd STREET	90	5.4	55	90
	10'GS'+007-10'GS'+045	CTH G (SOUTH)	136	8.2	62	136
	9'TN'+948-9'TN'+995	39th STREET	96	5.8	59	96
	9'A'+951-9'A'+993	CTH A (WEST)	112	6.7	52	112
	10'A'+007-10'A'+048	CTH A (EAST)	111	6.7	51	111
	9'TS'+956-9'TS'+995	37th STREET (WEST)	87	5.2	56	87
	10'TS'+005-10'TS'+045	37th STREET (EAST)	88	5.3	54	88
	10'GN'+007-10'GN'+049	CTH G (NORTH)	136	8.2	62	136
	9'TF'+944-9'TF'+995	35th STREET	101	6.1	62	101
	10'B'+005-10'B'+040	BEACH DRIVE	81	4.9	50	81
	9'TZ'+952-9'TZ'+995	32nd STREET (WEST)	92	5.5	56	92
	10'TZ'+005-10'TZ'+047	32nd STREET (EAST)	91	5.5	56	91
	9'T'+952-9'T'+995	30th STREET	91	5.5	56	91
	10'TM'+005-10'TM'+050	TOMAHAWK TRAIL	94	5.6	57	94
	VARIOUS -VARIOUS	DRIVEWAYS (20)	80	4.8	0	0
	TOTALS		47296	2838.2	20001	47216

CONCRETE CURB AND GUTTER, 900-mm, TYPE D

CATEGORY	INTERSECTION	LOCATION	CONC. CURB & GUTTER, 900-mm, TYPE D m
010	MEYER ROAD	NW QUAD	35.37
	MEYER ROAD	SW QUAD	17.31
	FAIRWAY LANE	NW QUAD	27.59
	FAIRWAY LANE	SW QUAD	18.22
	47TH STREET	NE QUAD	18.02
	47TH STREET	SE QUAD	28.32
	WELCH PRARIE ROAD	NW QUAD	27.43
	WELCH PRARIE ROAD	SW QUAD	18.22
	HORKAN ROAD	NW QUAD	27.73
	HORKAN ROAD	SW QUAD	18.22
	WOODLAND HILLS ROAD	NW QUAD	28.38
	WOODLAND HILLS ROAD	SW QUAD	18.13
	MEREDITH ROAD	NW QUAD	28.25
	MEREDITH ROAD	SW QUAD	18.17
	43RD STREET	NE QUAD	18.21
	43RD STREET	SE QUAD	28.00
	CTH G (SOUTH)	NE QUAD	22.88
	CTH G (SOUTH)	SE QUAD	18.22
	39TH STREET	NW QUAD	27.80
	39TH STREET	SW QUAD	18.19
	CTH A	NW QUAD	27.80
	CTH A	NE QUAD	18.03
	CTH A	SE QUAD	28.09
	CTH A	SW QUAD	18.19
	37th STREET	NW QUAD	27.41
	37TH STREET	NE QUAD	18.48
	37TH STREET	SE QUAD	27.64
	37TH STREET	SW QUAD	18.21
	CTH G (NORTH)	NE QUAD	23.93
	CTH G (NORTH)	SE QUAD	17.34
	35TH STREET	NW QUAD	28.28
	35TH STREET	SW QUAD	16.39
	BEACH DRIVE	NE QUAD	17.96
	BEACH DRIVE	SE QUAD	27.92
	32ND STREET	NW QUAD	28.24
	32ND STREET	NE QUAD	17.93
	32ND STREET	SE QUAD	27.80
	32ND STREET	SW QUAD	18.21
	TOMAHAWK TRAIL	NE QUAD	18.18
	TOMAHAWK TRAIL	SE QUAD	27.54
	30TH STREET	NW QUAD	27.80
	30TH STREET	SW QUAD	18.10
		TOTAL	962.13

EROSION MAT

CATEGORY	STATION	LOCATION	EROSION MAT CLASS I TYPE B, DELIVERED m2	EROSION MAT CLASS I TYPE B, INSTALLED m2
010	10+149	RT & LT	25	25
	10+330	RT & LT	25	25
	11+502	RT & LT	50	50
	11+763	RT & LT	25	25
	12+612	RT & LT	30	30
	12+832	RT & LT	40	40
	14+152	RT & LT	25	25
	14+297	RT & LT	25	25
	15+705	RT & LT	30	30
	15+985	RT & LT	50	50
	16+394	RT & LT	25	25
	16+603	RT & LT	25	25
	16+925	RT & LT	25	25
	17+985	RT & LT	100	100
	9'M'+979.96	RT & LT	20	20
	9'F'+989.20	RT & LT	20	20
	9'HK'+989.15	RT & LT	20	20
	9'FT'+987.08	RT & LT	20	20
	10'GS'+015.27	RT & LT	25	25
	9'TN'+987.00	RT & LT	25	25
	10'GN'+021.12	RT & LT	25	25
	UNDISTRIBUTED	---	160	160
	TOTAL		815	815

EROSION BALES, DELIVERED AND INSTALLED

CATEGORY	STATION	LOCATION	DELIVERED EACH	INSTALLED EACH
010	11+300	LT	3	3
	11+695	RT	3	3
	12+067	LT	3	3
	12+093	LT	3	3
	14+002	LT	3	3
	15+040	LT	3	3
	19+390	RT & LT	6	6
	19+425	RT	3	3
	19+472	LT	3	3
	19+499	RT	3	3
	19+534	RT	3	3
	19+554	RT	3	3
	19+560	LT	3	3
	19+600	LT	3	3
	19+937	LT	3	3
	22+043	RT	3	3
	22+062	RT	3	3
	22+072	RT	3	3
	22+558	LT	3	3
	22+580	LT	3	3
	UNDISTRIBUTED	---	17	17
	TOTAL		80	80

LEVELS ON - 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

W:\DOT: MSHT20

CROSS DRAIN CULVERT PIPE

Station	Location	RCCP CLASS III DIAMETER 450 mm m	600mm m	750mm m	900mm m	RCCP CLASS IV DIAMETERS 600mm m	675mm m	750mm m	1500mm m	RCCP H.E. - III DIMENSIONS 460mm x 725mm m	RCCP H.E. - IV DIMENSIONS 1220mm x 1920mm m	PIPE* TIES REQ'D	RC APON ENDWALLS DIAMETER 450mm EACH	600mm EACH	675mm EACH	750mm EACH	900mm EACH	1500mm EACH	RC APRON ENDWALLS FOR H.E.PIPE DIMENSIONS 460mm x 725mm EACH	RC APRON ENDWALLS FOR H.E. PIPE DIMENSIONS 1220mm x 1920mm EACH
10+149	S.T.H 58	—	—	—	—	13.41	—	—	—	—	—	12.00	—	2.00	—	—	—	—	—	—
10+330	S.T.H 58	—	—	—	—	14.02	—	—	—	—	—	12.00	—	2.00	—	—	—	—	—	—
11+502	S.T.H 58	—	—	—	—	—	—	—	—	—	17.07	12.00	—	—	—	—	—	—	—	2.00
11+763	S.T.H 58	—	—	—	—	—	15.24	—	—	—	—	12.00	—	—	2.00	—	—	—	—	—
12+612	S.T.H 58	—	—	15.85	—	—	—	—	—	—	—	12.00	—	—	—	2.00	—	—	—	—
12+832	S.T.H 58	—	—	—	17.07	—	—	—	—	—	—	12.00	—	—	—	—	2.00	—	—	—
14+152	S.T.H 58	—	—	—	—	15.85	—	—	—	—	—	12.00	—	2.00	—	—	—	—	—	—
14+297	S.T.H 58	—	—	—	—	15.24	—	—	—	—	—	12.00	—	2.00	—	—	—	—	—	—
15+705	S.T.H 58	—	—	—	—	—	—	17.68	—	—	—	12.00	—	—	—	2.00	—	—	—	—
15+985	S.T.H 58	—	—	—	—	—	—	—	—	—	18.46	12.00	—	—	—	—	—	—	—	2.00
16+394	S.T.H 58	—	—	—	—	13.41	—	—	—	—	—	12.00	—	2.00	—	—	—	—	—	—
16+603	S.T.H 58	—	14.02	—	—	—	—	—	—	—	—	12.00	—	2.00	—	—	—	—	—	—
16+925	S.T.H 58	—	15.24	—	—	—	—	—	—	—	—	12.00	—	2.00	—	—	—	—	—	—
17+985	S.T.H 58	—	—	—	—	—	—	—	—	—	17.07	12.00	—	—	—	—	—	—	—	2.00
17+985	S.T.H 58	—	—	—	—	—	—	—	—	—	17.07	12.00	—	—	—	—	—	—	—	2.00
9'M'+979.96	MEYER ROAD	18.90	—	—	—	—	—	—	—	—	—	12.00	2.00	—	—	—	—	—	—	—
9'F'+989.20	FAIRWAY LANE	21.35	—	—	—	—	—	—	—	—	—	12.00	2.00	—	—	—	—	—	—	—
9'HK'+989.15	HORKAN ROAD	21.94	—	—	—	—	—	—	—	—	—	12.00	2.00	—	—	—	—	—	—	—
9'FT'+987.08	MERDITH ROAD	21.94	—	—	—	—	—	—	—	—	—	12.00	2.00	—	—	—	—	—	—	—
10'GS'+015.27	C.T.H. G (SOUTH)	—	—	—	—	—	—	—	—	21.35	—	12.00	—	—	—	—	—	—	2.00	—
9'TN'+987.00	39TH STREET	—	—	—	—	—	—	—	—	20.70	—	12.00	—	—	—	—	—	—	2.00	—
0'GN'+021.12	C.T.H. G (NORTH)	—	—	—	—	17.06	—	—	—	—	—	12.00	—	2.00	—	—	—	—	—	—
9WH+87	WOODLAND HILLS	—	—	—	—	—	—	—	—	21.34	—	12.00	—	—	—	—	—	—	2.00	—
10'FS' +10	47TH ST.	21.95	—	—	—	—	—	—	—	—	—	12.00	2.00	—	—	—	—	—	—	—
TOTALS		106.06	29.26	15.9	17.07	88.99	15.24	17.68	0	63.39	67.67		10.0	16.0	2.0	4.0	2.0	0.0	6.0	8.0

* INCIDENTAL TO PIPE ITEM

ASPHALTIC FLUMES

CATEGORY	STATION	LOCATION	m2
010	9+452	LT	7.6
	9+478	LT	5.9
	11+273	LT	4.2
	11+282	LT	4.0
	11+654	RT	4.8
	11+683	RT	4.2
	12+075	LT	4.0
	12+085	LT	3.8
	14+407	LT	4.8
	14+418	LT	4.0
	15+019	LT	3.1
	15+047	LT	3.4
	15+553	LT	6.5
	15+553	RT	4.2
	15+562	LT	6.4
	15+562	RT	6.0
	19+509	RT	6.7
	19+522	RT	7.0
	19+908	LT	6.4
	19+925	LT	6.0
	20+723	LT	3.0
	20+723	RT	4.8
	20+732	LT	5.0
	20+732	RT	5.2
	22+045	RT	3.2
	22+048	LT	4.8
	22+062	RT	3.6
	22+075	LT	5.3
	22+492	RT	7.7
	22+505	RT	3.0
	23+921	LT	4.8
	23+930	LT	5.4
	24+392	RT	2.5
	24+401	RT	3.5
	25+522	RT	2.6
	25+523	LT	3.4
	25+531	RT	3.8
	25+532	LT	1.8
	27+146	RT	2.4
	27+152	LT	3.1
	27+156	RT	2.9
	27+161	LT	2.5
TOTAL			187.3

WATER

CATEGORY	STATION - STATION	LOCATION	KL
010	9+440-27+520	UNDISTRIBUTED*	1000

* FOR DUST ABATEMENT PURPOSES

SILT FENCE

CATEGORY	STATION	LOCATION	SILT FENCE DELIVERED m	SILT FENCE INSTALLED m	SILT FENCE MAINTENANCE m
010	10+149	RT	7	7	7
	10+330	RT	7	7	7
	11+502	RT	7	7	7
	11+763	RT	7	7	7
	12+612	RT	7	7	7
	12+832	RT	7	7	7
	14+152	LT	7	7	7
	14+297	LT	7	7	7
	15+705	RT	7	7	7
	15+985	RT	7	7	7
	16+394	RT	7	7	7
	16+603	RT	7	7	7
	16+925	RT	7	7	7
	17+985	RT	14	14	14
	9'M'+979.96	LT	7	7	7
	9'F'+989.20	RT	7	7	7
	9'HK'+989.15	RT	7	7	7
	9'FT'+987.08	RT	7	7	7
	10'GS'+015.27	RT	7	7	7
	9'TN'+987.00	RT	7	7	7
	10'GN'+021.12	LT	7	7	7
	UNDISTRIBUTED	---	40	40	40
		TOTAL	194	194	194

LEVELS ON - 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

MISCELLANEOUS QUANTITIES | 0 METERS | HWY: S.T.H. 58 | COUNTY: JUNEAU | STATE PROJECT NO: 6639-04-71 | SHEET NO:3.C | M

FILE NAME: s:\MSoL\051--100\089\495\MICROS\quantity.dgn | ORIGINATOR : | PLOT DATE : 01/22/2001 | PLOT SCALE : | TIME: 10:03:27 AM | STRAND ASSOCIATES

WisDOT: MSHT20

MULCHING; FERTILIZER, TYPE B; SEEDING, MIXTURE NO. 20 ; AND SEEDING, TEMPORARY

CATEGORY	STATION - STATION	LOCATION	MULCHING m2	FERTILIZER, TYPE B kg	SEEDING, MIXTURE NO. 20 kg	SEEDING, TEMPORARY kg
010	9+440-9+584	RT	277	10	4	4
	9+440-9+584	LT	277	10	4	4
	9+987-19+356	RT	17988	630	270	270
	9+987-19+410	LT	18092	633	271	271
	19+561-20+640	RT	2362	83	35	35
	19+644-20+686	LT	2001	70	30	30
	20+768-22+339	RT	3016	106	45	45
	20+814-22+396	LT	3037	106	46	46
	22+545-27+520	RT	9552	334	143	143
	22+594-27+520	LT	9458	331	142	142
	UNDISTRIBUTED	RT & LT	---	578	248	248
	TOTALS		66060	2891	1238	1238

TRAFFIC CONTROL

CATEGORY	DRUMS DAYS	*NUMBER NEEDED	REMARKS
010	200	10	CULVERT PIPE REPLACEMENT
	11,500	250	INTERSECTIONS FOR 46 DAYS
TOTALS	11,700		* FOR INFORMATION ONLY

TRAFFIC CONTROL

CATEGORY	BARRICADES, TYPE II DAYS	BARRICADES, TYPE III DAYS	WARNING LIGHTS, TYPE 'A' DAYS	SIGNS DAYS	REMARKS
010	660	672	672	3764	SEE TRAFFIC CONTROL DETAIL SHEET

MOVING SIGNS, TYPE II

CATEGORY	STATION	LOCATION	SIGN TYPE	EACH	REMARKS
010	MEYER ROAD	RT	R1-1	1	STOP
	FAIRWAY ROAD	LT	R12-1	1	WT. LIMIT
	FAIRWAY ROAD	LT	R2-1	1	35 MPH
	FAIRWAY ROAD	RT	R1-1	1	STOP
	47TH STREET	LT	R1-1	1	STOP
	WELCH PRAIRIE ROAD	RT	R1-1	1	STOP
	HOWE LANE	LT	R1-1	1	STOP
	HOWE LANE	RT	W14-1	1	DEAD END
	HORKAN ROAD	RT	R1-1	1	STOP
	WOODLAND HILLS ROAD	RT	R1-1	1	STOP
	MEREDITH ROAD	LT	R12-1	1	WT. LIMIT
	MEREDITH ROAD	RT	R1-1	1	STOP
	43RD STREET	LT	R1-1	1	STOP
	CTH G (SOUTH)	LT	R1-1	1	STOP
	CTH G (SOUTH)	LT	W1-6	1	CTH G
	CTH G (SOUTH)	LT	W6-1	1	ARROW
	CTH G (SOUTH)	RT	W1-6	1	CTH G
	CTH G (SOUTH)	RT	W6-6	1	ARROW
	39TH STREET	RT	R1-1	1	STOP
	CTH A	LT	W1-6	1	CTH A
	CTH A	LT	W6-1	1	ARROW
	CTH A	LT	R1-1	1	STOP
	CTH A	RT	R1-1	1	STOP
	37TH STREET	LT	R1-1	1	STOP
	37TH STREET	RT	R1-1	1	STOP
	37TH STREET	RT	W11-6	1	SNOWMOBILE CROSSING
	CTH G (NORTH)	LT	R1-1	1	STOP
	CTH G (NORTH)	LT	W1-5	1	STH 58
	CTH G (NORTH)	LT	W6-4	1	ARROW
	CTH G (NORTH)	LT	W1-6	1	CTH G
	CTH G (NORTH)	LT	W6-1	1	ARROW
	22+460	RT	W1-6	1	CTH G
	22+460	RT	W6-1	1	ARROW
	22+500	LT	W1-6	1	CTH G
	22+500	LT	W6-1	1	ARROW
	22+500	LT	W1-7	1	ARROW
	35TH STREET	RT	R1-1	1	STOP
	BEACH DRIVE	LT	R1-1	1	STOP
	32ND STREET	LT	R1-1	1	STOP
	32ND STREET	RT	R1-1	1	STOP
	32ND STREET	RT	R12-1	1	WT. LIMIT
	30TH STREET	RT	R1-1	1	STOP
	TOMAHAWK TRAIL	LT	R1-1	1	STOP
			TOTAL	43	

PAVEMENT MARKING

CATEGORY	STATION - STATION	LOCATION	SAME DAY, 100mm PAINT, YELLOW m	SAME DAY, 100mm EPOXY, YELLOW m	100mm, EPOXY EDGELINE, WHITE m	100mm, EPOXY LANE LINE WHITE m	CHANNELIZING, 200mm, EPOXY, WHITE m	STOP LINE 450mm, EPOXY, WHITE m	REMARKS
010	9+440-9+736	CL	48	---	---	---	---	---	1.2 m SKIP - 2 TIMES
	9+826-27+520	CL	2,830	---	---	---	---	---	1.2 m SKIP - 2 TIMES
	9+440-27+520	LT & RT	---	---	35,230	---	---	---	---
	9+440-10+114	CL, NB & SB	---	1,348	---	---	---	---	---
	11+918-12+159	CL, NB	---	241	---	---	---	---	---
	12+320-12+481	CL, SB	---	161	---	---	---	---	---
	13+046-15+058	CL, NB	---	2,012	---	---	---	---	---
	13+408-15+186	CL, SB	---	1,778	---	---	---	---	---
	19+436-19+798	CL, SB	---	362	---	---	---	---	---
	27+398-27+520	CL, NB	---	122	---	---	---	---	---
	10+114-27+520	CL	---	4,029	---	---	---	---	3.8 m SKIP
	19+390.3-19+496.89	RT	---	---	---	---	110	---	---
	19+485.89-19+593.16	LT	---	---	---	30	---	---	---
	20+673.54-20+704.04	RT	---	---	---	---	30	---	---
	22+373.71-22+480.30	RT	---	---	---	20	110	---	---
	22+467.85-22+544.05	LT	---	---	---	---	---	---	---
	10'GS'+011.2	RT	---	---	---	---	---	10	---
	9'A'+988.2	LT	---	---	---	---	---	8	---
	10'A'+011.2	RT	---	---	---	---	---	8	---
	10'GN'+011.2	RT	---	---	---	---	---	10	---
	TOTALS		2,878	10,053	35,230	50	250	36	

LOCATING NO-PASSING ZONES

CATEGORY	STATION - STATION	LOCATION	km
010	9+440-27+520	CL	17.99

SAWING EXISTING PAVEMENT

CATEGORY	STATION	LOCATION	m
010	9+440	STH 58 BEGIN CONST.	8.40
	9+584	STH 58 BUTT JOINT	8.40
	9+987	STH 58 BUTT JOINT	8.40
	10+149	RT & LT	13.20
	10+330	RT & LT	13.20
	11+520	RT & LT	13.20
	11+763	RT & LT	13.20
	12+612	RT & LT	13.20
	12+832	RT & LT	13.20
	14+152	RT & LT	13.20
	14+297	RT & LT	13.20
	15+705	RT & LT	13.20
	15+985	RT & LT	13.20
	16+394	RT & LT	13.20
	16+603	RT & LT	13.20
	16+925	RT & LT	13.20
	17+985	RT & LT	13.20
	27+520	S.T.H. 58 END CONST.	6.60
	9'M'+979.96	RT & LT	22.00
	9'M'+941	MEYER ROAD	6.70
	9'F'+989.2	RT & LT	24.50
	9'F'+955	FAIRWAY LANE	6.40
	10'FS'+045	47th STREET	6.30
	9'WP'+950	WELCH PRAIRIE ROAD	6.30
	9'HK'+989.15	RT & LT	20.00
	9'HK'+952	HORKAN ROAD	5.80
	9'WH'+956	WOODLAND HILLS ROAD	6.50
	9'FT'+987.08	RT & LT	20.00
	9'FT'+949	MEREDITH ROAD	6.50
	10'FT'+046	43rd STREET	6.20
	10'GS'+010	RT & LT	30.00
	10'GS'+015.27	RT & LT	20.00
	10'GS'+045	C.T.H. G (SOUTH)	7.20
	9'TN'+948	39th STREET	5.90
	9'TN'+987	RT & LT	19.00
	9'A'+951	C.T.H. A (WEST)	6.20
	10'A'+048	C.T.H. A (EAST)	6.20
	9'TS'+956	37th STREET (WEST)	6.40
	10'TS'+045	37th STREET (EAST)	6.40
	10'GN'+021.12	RT & LT	30.00
	10'GN'+049	C.T.H. G (NORTH)	7.20
	9'TF'+944	35th STREET	5.70
	10'B'+040	BEACH DRIVE	6.90
	9'TZ'+952	32nd STREET (WEST)	6.00
	10'TZ'+047	32nd STREET (EAST)	6.00
	9'T'+952	30th STREET	6.30
	10'TM'+050	TOMAHAWK TRAIL	5.50
	DRIVEWAYS	S.T.H. 58 (20 DRIVEWAYS)	120.00
		TOTAL	654.70

PULVERIZE AND RELAY EXISTING BASE AND SURFACE

CATEGORY	STATION-STATION	LOCATION	m2
010	9+440-9+584	LT & RT	1,526
	9+987-11+317	LT & RT	14,098
	11+317-27+520	LT & RT	152,308
	TOTAL		167,932

PULVERIZE AND GRADE EXISTING ASPHALTIC SURFACE

CATEGORY	STATION-STATION	LOCATION	EXISTING AREA m2
010	9'M'+941-9'M'+997	MEYER ROAD	559.8
	9'F'+955-9'F'+997	FAIRWAY LANE	324.8
	10'FS'+003-10'FS'+045	47th STREET	401.4
	9'WP'+950-9'WP'+997	WELCH PRAIRIE ROAD	396.1
	9'HK'+952-9'HK'+997	HORKAN ROAD	316.6
	9'WH'+956-9'WH'+997	WOODLAND HILLS ROAD	329.2
	9'FT'+949-9'FT'+997	MEREDITH ROAD	390.2
	10'FT'+003-10'FT'+046	43rd STREET	351.7
	10'GS'+007-10'GS'+045	CTH G (SOUTH)	412.3
	19+356-19+561	RT	519.2
	19+410-19+644	LT	626.2
	9'TN'+948-9'TN'+997	39TH STREET	362.9
	9'A'+951-9'A'+993	CTH A (WEST)	366.3
	10'A'+007-10'A'+048	CTH A (EAST)	397.4
	20+639-20+768	RT	259.0
	20+686-20+814	LT	133.7
	9'TS'+956-9'TS'+997	37th STREET (WEST)	359.2
	10'TS'+003-10'TS'+045	37th STREET (EAST)	323.3
	10'GN'+007-10'GN'+049	CTH G (NORTH)	448.4
	22+339-22+545	RT	479.8
	9'TF'+944-9'TF'+997	35th STREET	376.3
	10'B'+003-10'B'+040	BEACH DRIVE	416.1
	9'TZ'+952-9'TZ'+997	32nd STEET (WEST)	377.8
	10'TZ'+003-10'TZ'+047	32nd STREET (EAST)	315.2
	9'T'+952-9'T'+997	30th STREET	389.7
	10'TM'+003-10'TM'+050	TOMAHAWK TRAIL	424.5
	TOTAL		10,057.1

ASPHALTIC PAVEMENT FOR CROSSDRAIN REPLACEMENT

CATEGORY	STATION	LOCATION	Mg
010	10+149	RT & LT	3
	10+330	RT & LT	3
	11+502	RT & LT	5
	11+763	RT & LT	3
	12+612	RT & LT	3
	12+832	RT & LT	4
	14+152	RT & LT	3
	14+297	RT & LT	3
	15+705	RT & LT	3
	15+985	RT & LT	4
	16+394	RT & LT	3
	16+603	RT & LT	3
	16+925	RT & LT	3
	17+985	RT & LT	9
	9'M'+979.96	RT & LT	3
	9'F'+989.20	RT & LT	7
	9'HK'+989.15	RT & LT	6
	9'FT'+987.08	RT & LT	6
	10'GS'+010	RT & LT	6
	10'GS'+015.27	RT & LT	4
	9'TN'+987.00	RT & LT	7
	10'GN'+021.12	RT & LT	4
		TOTAL	95

LEVELS ON - 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

CATEGORY	LOCATION	GRADING, SHAPING, AND FINISHING INTERSECTIONS L.S.	UNCL. EXC m3	PULVERIZE m3	EXP. FILL m3	BORROW m3	WASTE m3	SALVAGED TOPSOIL m2	TOPSOIL m2	MULCHING m2	FERTILIZER TYPE, B kg	SEEDING, MIXTURE NO. 20 kg	SEEDING TEMPORARY kg
			FOR INFORMATION ONLY - ITEMS INCLUDED IN UNIT PRICE OF G.S.F. INTERSECTIONS										
010	MEYER ROAD	1	60.5	36.4	128.4	31.5	---	---	351.4	410.6	14.4	6.2	6.2
	FAIRWAY LANE	1	34.5	21.1	72.9	17.3	---	---	340.1	381.6	13.4	5.7	5.7
	47th STREET	1	20.0	26.1	115.0	68.9	---	---	345.6	386.6	13.5	5.8	5.8
	WELCH PRAIRE ROAD	1	42.1	25.7	75.9	8.1	---	---	363.9	410.3	14.4	6.2	6.2
	HORKAN ROAD	1	75.0	20.6	102.9	7.3	---	---	351.2	395.3	13.8	5.9	5.9
	WOODLAND HILLS ROAD	1	27.7	21.4	76.6	27.5	---	---	213.8	254.8	8.9	3.8	3.8
	MEREDITH ROAD	1	56.6	25.4	280.5	198.5	---	---	472.0	519.1	18.2	7.8	7.8
	43rd STREET	1	24.3	22.9	185.4	138.2	---	---	323.1	365.5	12.8	5.5	5.5
	CTH G (SOUTH):												
	BYPASS LANE (LT)		178.6	78.3	108.5	---	148.4	1074.4	---	1495.6	52.3	22.4	22.4
	LANE & TAPERS (RT)		254.0	64.9	159.8	---	159.1	1139.5	---	1422.5	49.8	21.3	21.3
	INTERSECTION		31.7	26.8	86.9	28.4	---	---	202.6	202.6	7.1	3.0	3.0
	CTH G (SOUTH) TOTAL	1	464.3	169.9	355.1	28.4	307.5	2213.9	202.6	3120.7	109.2	46.8	46.8
	39th STREET	1	82.6	18.1	138.3	37.6	---	---	466.1	506.7	17.7	7.6	7.6
	CTH A:												
	LANE & TAPERS (LT)		47.2	12.0	43.5	---	15.7	232.0	---	393.8	13.8	5.9	5.9
	WEST INTERSECTION		23.0	18.3	77.9	36.6	---	---	304.0	321.8	11.3	4.8	4.8
	LANE & TAPERS (RT)		58.7	26.0	10.8	---	74.0	118.0	---	296.2	10.4	4.4	4.4
	EAST INTERSECTION		13.9	19.9	81.8	48.0	---	---	265.0	282.1	9.9	4.2	4.2
	CTH A TOTAL	1	142.8	76.2	213.9	84.5	89.7	350.0	569.0	1293.9	45.3	19.4	19.4
	37th STREET:												
	WEST APPROACH		63.8	18.0	113.5	31.7	---	---	382.3	417.7	14.6	6.3	6.3
	EAST APPROACH		156.6	16.2	94.0	---	78.8	---	392.7	428.5	15.0	6.4	6.4
	37th STREET TOTAL	1	220.4	34.2	207.5	31.7	78.8	---	775.0	846.2	29.6	12.7	12.7
	CTH G (NORTH):												
	BYPASS LANE (LT)		156.8	0.0	174.6	17.8	---	933.4	---	1289.8	45.1	19.3	19.3
	LANE & TAPERS (RT)		89.6	43.2	415.5	282.7	---	966.2	---	1253.6	43.9	18.8	18.8
	INTERSECTION		34.3	22.4	123.4	66.7	---	---	312.0	330.0	11.6	5.0	5.0
	CTH G (NORTH) TOTAL	1	280.7	65.6	713.5	367.2	---	1899.6	312.0	2873.4	100.6	43.1	43.1
	35th STREET	1	20.2	18.8	176.9	137.9	---	---	341.8	382.5	13.4	5.7	5.7
	BEACH DRIVE	1	3.2	20.8	89.3	65.3	---	---	187.6	220.1	7.7	3.3	3.3
	32nd STREET:												
	WEST APPROACH		29.4	18.9	65.4	17.1	---	---	159.4	197.1	6.9	3.0	3.0
	EAST APPROACH		72.7	15.8	99.0	10.5	---	---	300.4	338.1	11.8	5.1	5.1
	32nd STREET TOTAL	1	102.1	34.7	164.4	27.6	---	---	459.8	535.2	18.7	8.0	8.0
	30th STREET	1	10.5	19.5	70.4	40.4	---	---	192.3	230.3	8.1	3.5	3.5
	TOMAHAWK TRAIL	1	25.0	21.2	38.4	---	7.8	---	159.1	198.4	6.9	3.0	3.0

CATEGORY	LOCATION	SHAPING, TOPSOILING, AND FINISHING FOR CROSS DRAIN REPLACEMENTS EACH	MULCHING m2	FERTILIZER TYPE, B kg	SEEDING, MIXTURE NO. 20 kg	SEEDING TEMPORARY kg
			FOR INFORMATION ONLY - ITEMS INCLUDED IN UNIT PRICE OF S.T. & F. FOR CROSSDRAIN REPLACEMENTS			
010	10+149	1	20	1	1	1
	10+330	1	20	1	1	1
	11+502	1	30	1	1	1
	11+763	1	20	1	1	1
	12+612	1	20	1	1	1
	12+832	1	25	1	1	1
	14+152	1	20	1	1	1
	14+297	1	20	1	1	1
	15+705	1	20	1	1	1
	15+985	1	30	1	1	1
	16+394	1	20	1	1	1
	16+603	1	20	1	1	1
	16+925	1	20	1	1	1
	17+985	2	60	2	2	2
	9'M'+979.96	1	20	1	1	1
	9'F'+989.20	1	20	1	1	1
	9'HK'+989.15	1	20	1	1	1
	9'FT'+987.08	1	20	1	1	1
	10'GS'+015.27	1	20	1	1	1
	9'TN'+987.00	1	20	1	1	1
	10'GN'+021.12	1	20	1	1	1
	TOTAL	22				

MARKER POST, FLEXIBLE, FOR CULVERT END

CATEGORY	STATION	LOCATION	EACH
010	9+440 - 27+520	RT & LT	30
	SIDEROADS	RT & LT	14
		TOTAL	44

LEVELS ON - 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

WisDOT: MSHT20

MISCELLANEOUS QUANTITIES | 0 METERS | HWY: S.T.H. 58 | COUNTY: JUNEAU | STATE PROJECT NO: 6639-04-71 | SHEET NO: 3.F | M

FILE NAME: s:\MSol\051--100\089\495\MICROS\quantity.dgn | ORIGINATOR : | PLOT DATE : 01/22/2001 | PLOT SCALE : | TIME: 10:03:46 AM | STRAND ASSOCIATES

CONSTRUCTION STAKING, SUBGRADE

CATEGORY	STATION - STATION	LOCATION	m
'010	19+360 - 19+480	BYPASS LANE RT	120
	20+640 - 20+700	BYPASS LANE RT	60
	20+750 - 20+810	BYPASS LANE LT	60
	22+360 - 22+480	BYPASS LANE RT	120
		TOTAL	360

CONSTRUCTION STAKING, CURB, GUTTER, AND CURB AND GUTTER

CATEGORY	INTERSECTION	LOCATION	m
010	MEYER ROAD	NW QUAD	35.37
		SW QUAD	17.31
	FAIRWAY LANE	NW QUAD	27.59
		SW QUAD	18.22
	47TH ST	NE QUAD	18.02
		SE QUAD	28.32
	WELCH PRARIE ROAD	NW QUAD	27.43
		SW QUAD	18.22
	HORKAN ROAD	NW QUAD	27.73
		SW QUAD	18.22
	WOODLAND HILLS ROAD	NW QUAD	28.38
		SW QUAD	18.13
	MEREDITH ROAD	NW QUAD	28.25
		SW QUAD	18.17
	43RD STREET	NE QUAD	18.21
		SE QUAD	28.00
	C.T.H. G (SOUTH)	NE QUAD	22.88
		SE QUAD	18.22
	39TH STREET	NW QUAD	27.8
		SW QUAD	18.19
	C.T.H. A	NW QUAD	27.8
		NE QUAD	18.03
		SE QUAD	28.09
		SW QUAD	18.19
	37TH STREET	NW QUAD	27.41
		NE QUAD	18.48
		SE QUAD	27.64
		SW QUAD	18.21
	C.T.H. G (NORTH)	NE QUAD	23.93
		SE QUAD	17.34
	35TH STREET	NW QUAD	28.28
		SW QUAD	16.39
	BEACH DRIVE	NE QUAD	17.96
		SE QUAD	27.92
	32ND STREET	NW QUAD	28.24
		NE QUAD	17.93
		SE QUAD	27.80
		SW QUAD	18.21
	TOMAHAWK TRAIL	NE QUAD	18.18
		SE QUAD	27.54
	30TH STREET	NW QUAD	27.80
		SW QUAD	18.10
		TOTAL	962.13

CONSTRUTION STAKING, PIPE CULVERTS

CATEGORY	STATION	LOCATION	EACH
010	10+149	S.T.H. 58	1
	10+330	S.T.H. 58	1
	11+502	S.T.H. 58	1
	11+763	S.T.H. 58	1
	12+612	S.T.H. 58	1
	12+832	S.T.H. 58	1
	14+152	S.T.H. 58	1
	14+297	S.T.H. 58	1
	15+705	S.T.H. 58	1
	15+985	S.T.H. 58	1
	16+394	S.T.H. 58	1
	16+603	S.T.H. 58	1
	16+925	S.T.H. 58	1
	17+985	S.T.H. 58	1
	17+985	S.T.H. 58	1
	9'W'+979.96	MEYER ROAD	1
	9'F'+989.20	FAIRWAY LANE	1
	9'HK'+989.15	HORKAN ROAD	1
	9'FT'+987.08	MEREDITH ROAD	1
	10'GS'+015.27	C.T.H. G (SOUTH)	1
	9'TN'+987.00	39TH STREET	1
	10'GN'+021.12	C.T.H. G (NORTH)	1
		TOTALS	22

CONSTRUCTION STAKING, RESURFACING REFERENCE

CATEGORY	STATION - STATION	LOCATION	m
010	9+440 - 9+735	℄	295
	9+826 - 27+520	℄	17694
	TOTAL		17989

BEAM GUARD LOCATIONS

STA- STA	LOCATION	REMARKS
9+567- 9+709	LT	IH 90/94 BRIDGE
9+583 - 9+709	RT	
9+799 - 9+917	LT	
9+799 - 9+998	RT	
22+266- 22+334	LT & RT	BOX CULVERT

QUANTITIES ADDED TO CONTRACT

ITEM	DESC	LOCATION	QTY
60601	RIP RAP	PIPE @ 17+985	34.4 m^3
64505	GEO FABRIC, TYPE R	PIPE @ 17+985	112.9 m^2
90004M	GRADING WIDENINGS AT PIPES	11+502, 15+985, 17+985	1.0 LS
90004N	SHAPING INTERSECTION DITCHES.	FAIRWAY LN., HORKAN RD., 39TH ST.	1.0 LS.
41105	ASPHALTIC SURF. DRIVEWAY & FIELD ENT.	PROJECT	530.0 mg
41101	ASPHALTIC SURFACE, BEAM GUARD	BEAMGUARD	87.4 mg
20411	REMOVING GUARD RAIL		732.0 m
52061	APRON ENDWALLS FOR CULVERT PIPE, 450mm	19+860 LT	2.0 EA
52105	CORRUGATED STEEL CULVERT PIPE, 450mm	19+860 LT	12.0 m
52361	RCCP HORZ. ELLIP, ENDWALL, 490X770mm	CTH G.'S', CTH G.'N' WOODLAND HILLS	6.0 EA
61002	REINF. CONC. HE CL III. SS. 490X770 mm	CTH G.'S', CTH G.'N' WOODLAND HILLS	63.4 m
61408	STEEL PLATE BEAM GUARD, CLASS A	BRIDGE & BOX CUL.	561.0 m
61407	STEEL THRIE BEAM STR. APPROACH	BRIDGE	46.0 m
61935	STL. PLT. BM GRD, ENERGY ABSORBING TERMINAL	BRIDGE & BOX CUL.	8.0 EA.

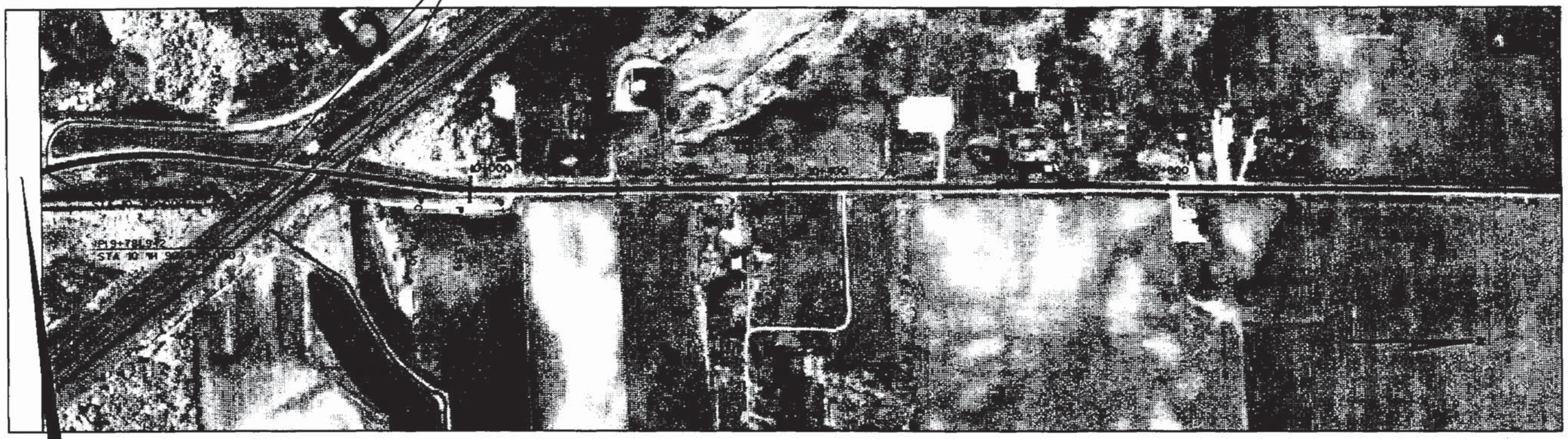
MISCELLANEOUS QUANTITIES | 0 METERS | HWY: S.T.H. 58 | COUNTY: JUNEAU | STATE PROJECT NO: 6639-04-71 | SHEET NO: 3.6 | M

FILE NAME: a:\WSdi\051--100\089\495\WIDR05\quantity.dgn | ORIGINATOR : | PLOT DATE : 01/22/2001 | PLOT SCALE : | TIME: 10:03:53 AM | STRAND ASSOCIATES

LEVELS ON - 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63

WisDOT1 MSHT20

EXCEPTION TO NET CENTERLINE LENGTH
STA. 9+735.969 TO STA. 9+826.156
STRUCTURE B-29-38



STA 9+973
1 - 600 mm RCCP EXISTING
TO REMAIN

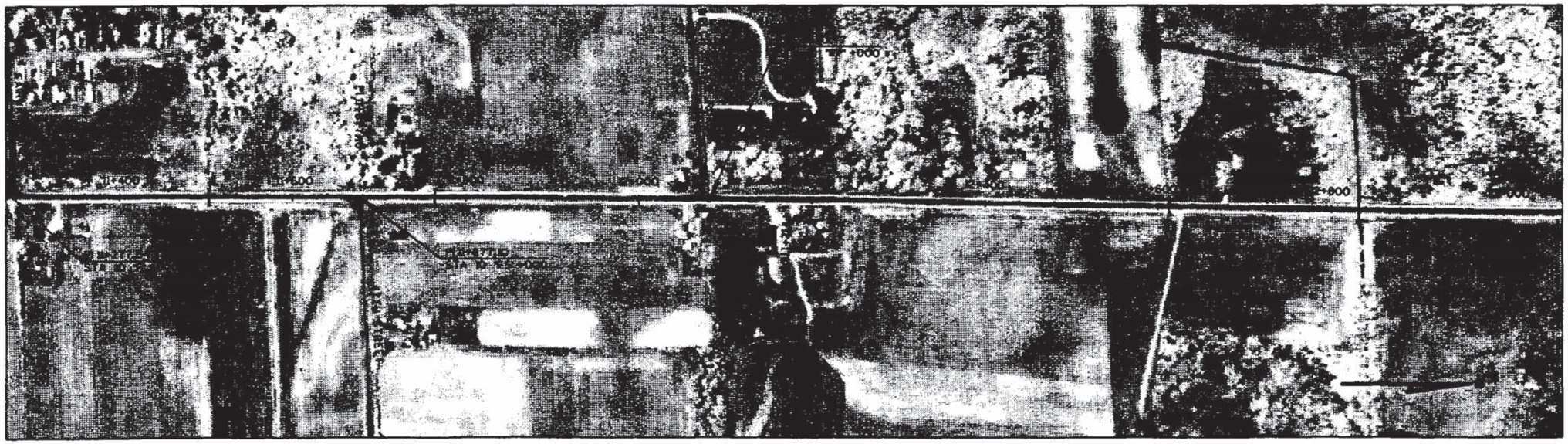
STA 10+149
1 - 600 mm CMCP EXISTING
TO BE REMOVED

1 - 600mm RCCP REQUIRED

STA 10+330
1 - 600 mm CMCP EXISTING
TO BE REMOVED

1 - 600 mm RCCP REQUIRED

BEGIN PROJECT
STA ~~9+440~~ 9+386
SAWCUT REQ'D.



STA 11+502
1 - 1500 mm CMCP EXISTING
TO BE REMOVED

1 - 1500 mm RCCP REQUIRED

STA 11+763
1 - 675 mm CMCP EXISTING
TO BE REMOVED

1 - 675 mm RCCP REQUIRED

STA 12+612
1 - 750 mm CMCP EXISTING
TO BE REMOVED

1 - 750 mm RCCP REQUIRED

STA 12+832
1 - 900 mm CMCP EXISTING
TO BE REMOVED

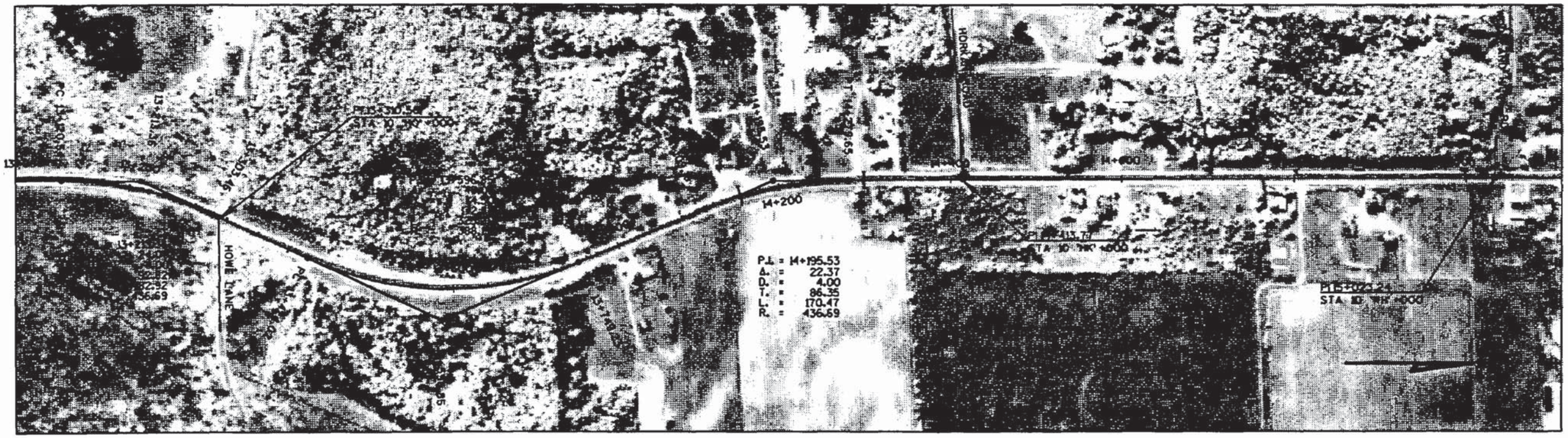
1 - 900 mm RCCP REQUIRED

PLAN	0 METERS	HWY: STH 58	COUNTY: JUNEAU	STATE PROJECT NO: 6639-04-71	SHEET NO: 5.1	M

FILE NAME: @FILE@ ORIGINATOR : PLOT DATE : @DATE@ PLOT SCALE : TIME: @TIME@ STRAND ASSOCIATES 089-495-

LEVELS ON - 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

WisDOT: MSHT20

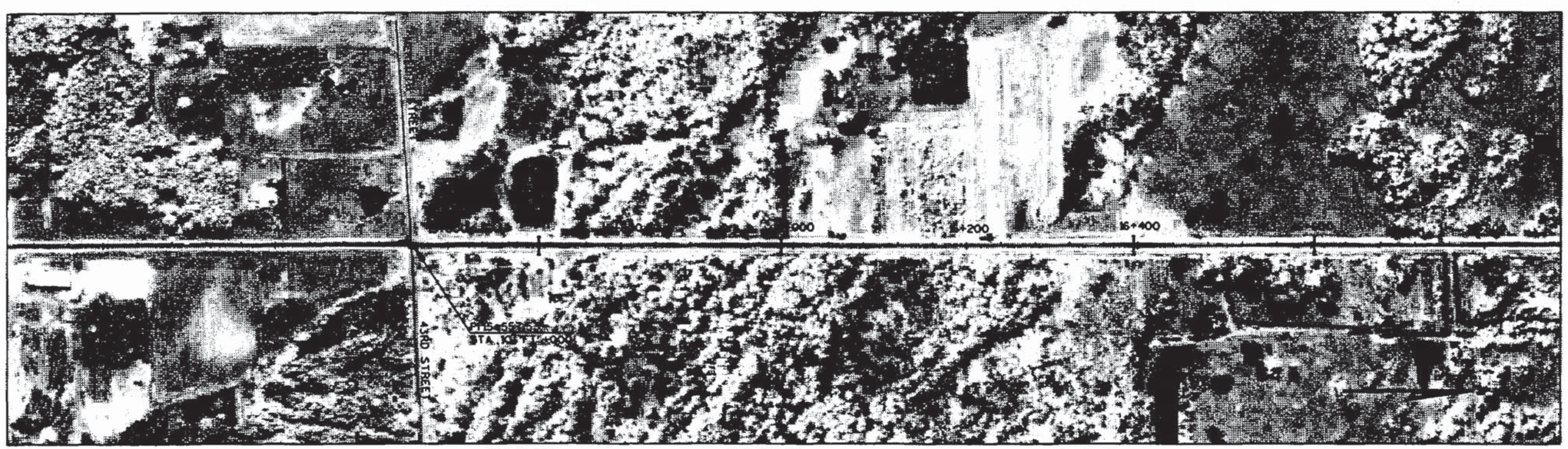


STA 14+152
1 - 600 mm CMCP EXISTING
TO BE REMOVED

1 - 600 mm RCCP REQUIRED

STA 14+297
1 - 600 mm CMCP EXISTING
TO BE REMOVED

1 - 600 mm RCCP REQUIRED



STA 15+705
1 - 750 mm CMCP EXISTING
TO BE REMOVED

1 - 750 mm RCCP REQUIRED

STA 15+985
1 - 1368x1524 mm CMPA EXISTING
TO BE REMOVED

1 - 1220x1920 mm RCPA REQUIRED

STA 16+394
1 - 600 mm CMCP EXISTING
TO BE REMOVED

1 - 600 mm RCCP REQUIRED

STA 16+603
1 - 600 mm CMCP EXISTING
TO BE REMOVED

1 - 600 mm RCCP REQUIRED

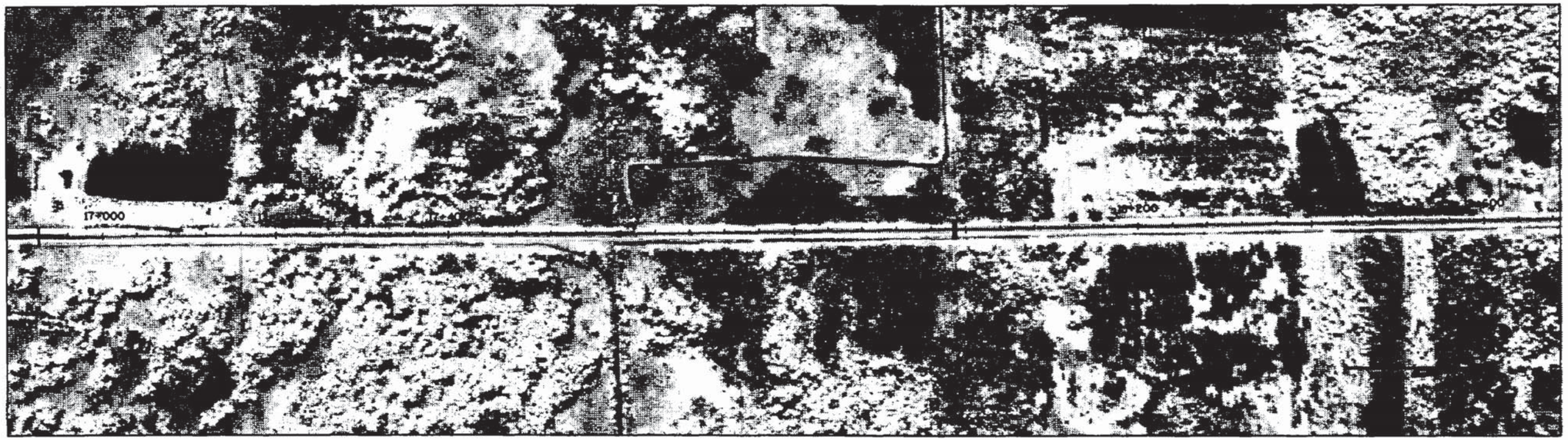
PLAN	0 METERS	HWY: STH 58	COUNTY: JUNEAU	STATE PROJECT NO: 6639-04-71	SHEET NO: 5.2	M

FILE NAME: #FILE# ORIGINATOR : PLOT DATE : #DATE# PLOT SCALE : TIME: #TIME#

STRAND ASSOCIATES 089-495-

LEVELS ON - 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

W:\DOT\ MSHT20

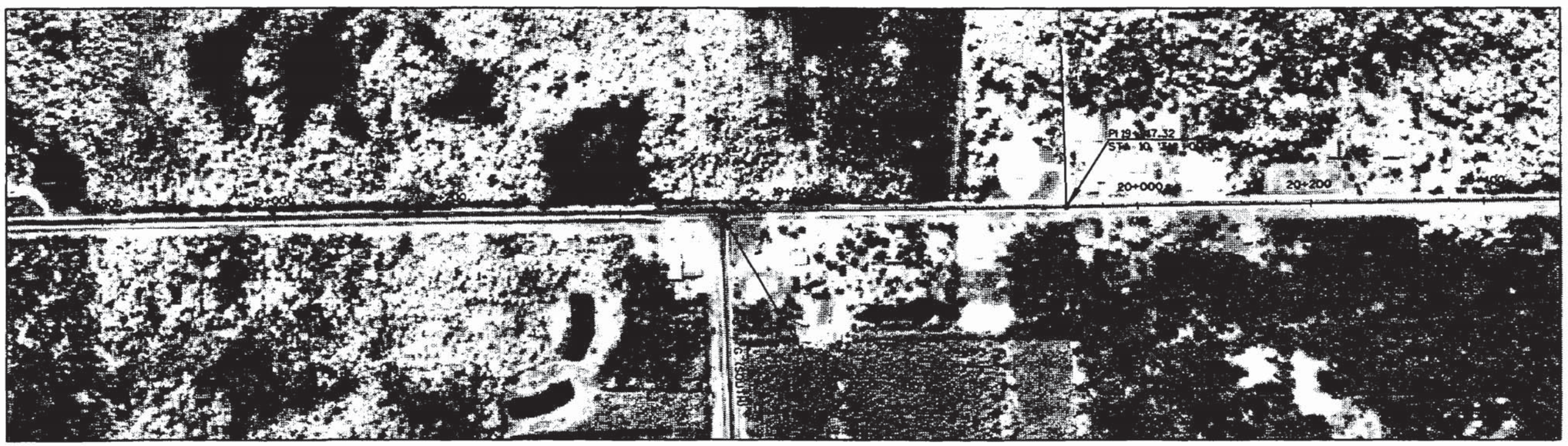


STA 16+925
1 - 600 mm CMCP EXISTING
TO BE REMOVED

1 - 600 mm RCCP REQUIRED

STA 17+985
2 - 1067x1524 mm CMEP EXISTING
TO BE REMOVED

2 - 1220x1920 mm RCPA REQUIRED



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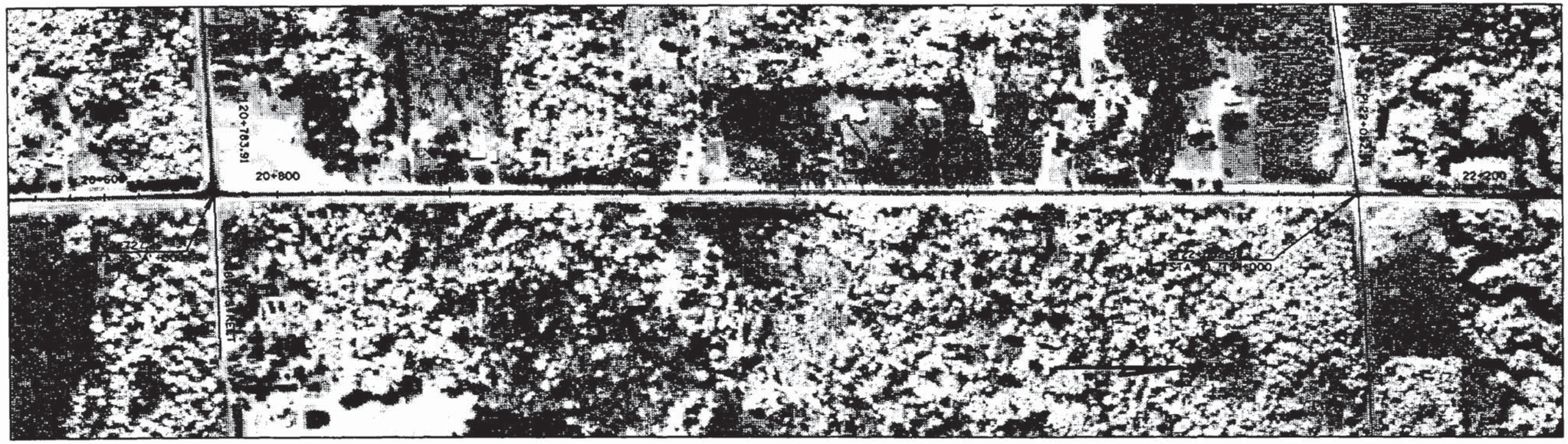
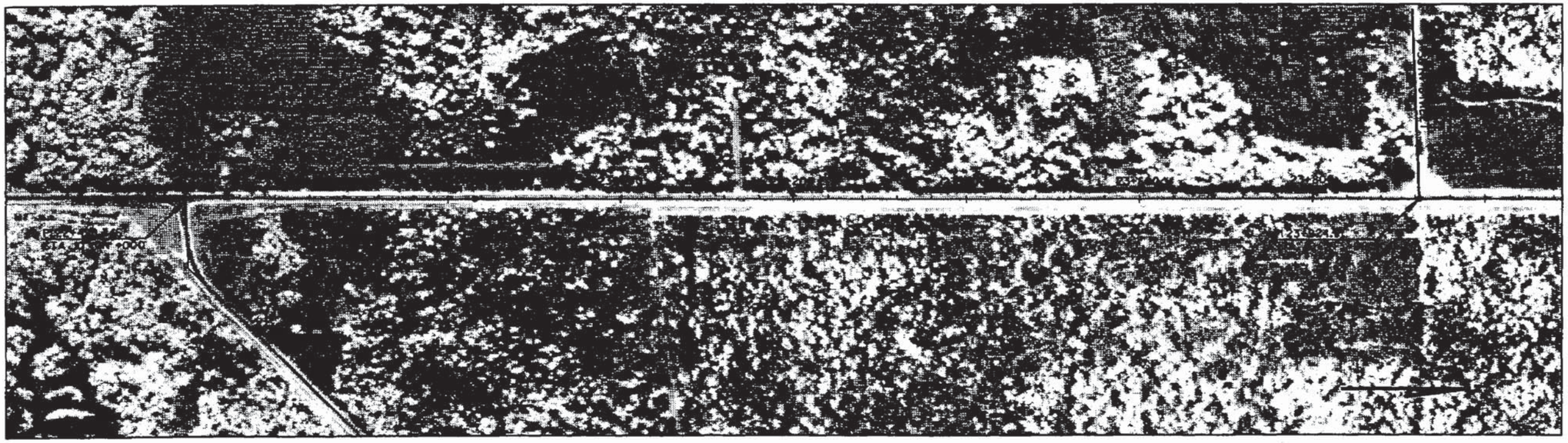
PLAN	0 METERS	HWY: STH 58	COUNTY: JUNEAU	STATE PROJECT NO: 6639-04-71	SHEET NO: 5.3	M

FILE NAME: @FILE@ ORIGINATOR : PLOT DATE : @DATE@ PLOT SCALE : TIME: @TIME@

STRAND ASSOCIATES 089-495-

WI@DOT: MSHT30



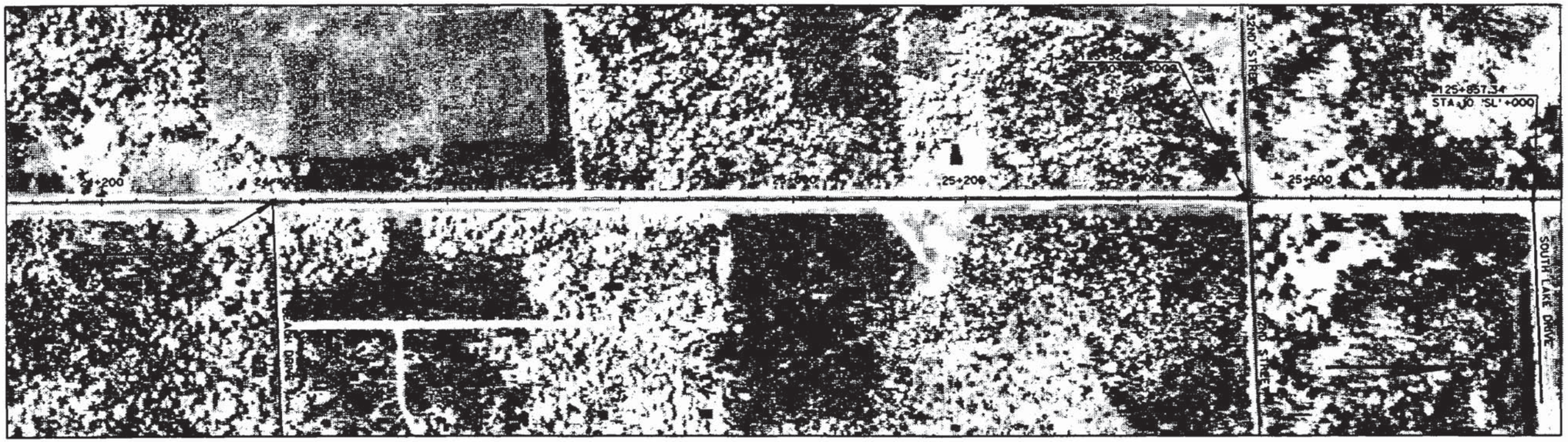


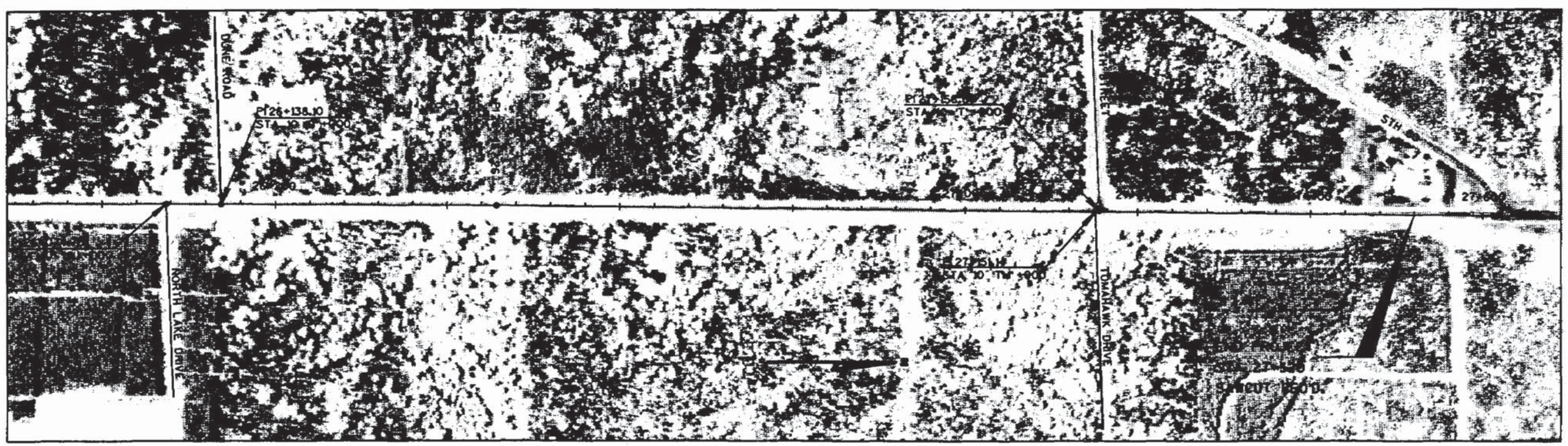
PLAN	0 METERS	HWY: STH 58	COUNTY: JUNEAU	STATE PROJECT NO: 6639-04-71	SHEET NO: 5.4	M

FILE NAME: @FILE@ ORIGINATOR : PLOT DATE : @DATE@ PLOT SCALE : TIME: @TIME@ STRAND ASSOCIATES 089-495-

LEVELS ON - 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

WI@DOT; MSHT20



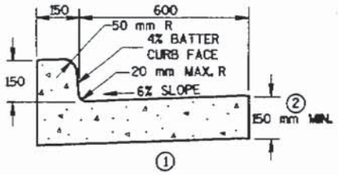


LEVELS ON • 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

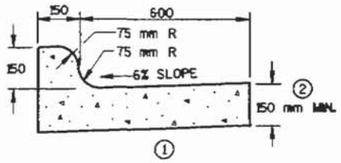
PLAN	0 METERS	HWY: STH 58	COUNTY: JUNEAU	STATE PROJECT NO: 6639-04-71	SHEET NO: 55

FILE NAME: @FILE@ ORIGINATOR : PLOT DATE : @DATE@ PLOT SCALE : TIME: @TIME@ STRAND ASSOCIATES 089-495-

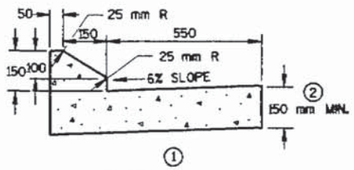
WisDOT: MSHT20



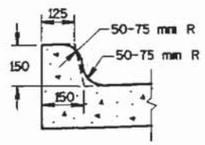
1
TYPES A & D



1
TYPES K & L

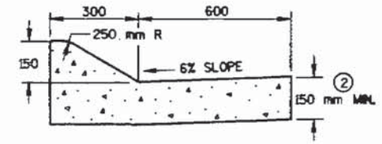


1
TYPES G & J

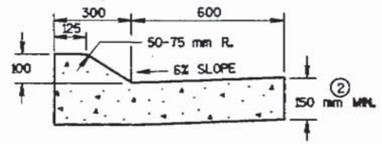


OPTIONAL CURB SHAPE
1
FOR TYPES K & L

CONCRETE CURB & GUTTER 750 mm



(150 mm MOUNTABLE CURB)



(100 mm MOUNTABLE CURB)

1
TYPES A & D
CONCRETE CURB & GUTTER 900 mm

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

INTEGRAL CURB & GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB & GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE. A LONGITUDINAL CONSTRUCTION JOINT IS NOT REQUIRED WITH INTEGRAL CURB AND GUTTER.

WHERE THE TRANSVERSE JOINTS IN THE PAVEMENT ARE REQUIRED TO BE SEALED, THE JOINTS IN THE INTEGRAL CURB AND GUTTER SHALL BE SEALED TO THE FACE OF CURB WITH THE SAME TYPE OF SEALANT. THE COST OF FURNISHING AND INSTALLING THIS SEALANT SHALL BE INCIDENTAL TO THE ITEM CONCRETE CURB AND GUTTER.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE COURSE AND UNCLASSIFIED EXCAVATION LIMITS ARE 600 mm BEHIND THE BACK OF CURBS.

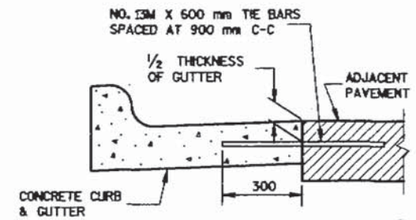
1 TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A, G AND K.

2 THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE COURSE PROVIDED A 150 mm MINIMUM GUTTER THICKNESS IS MAINTAINED.

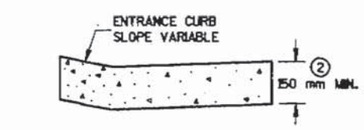
3 WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATION(S) WILL BE SHOWN ELSEWHERE IN THE PLAN.

NOTE

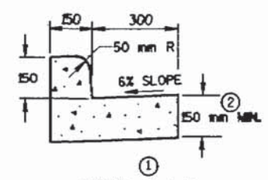
DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN.



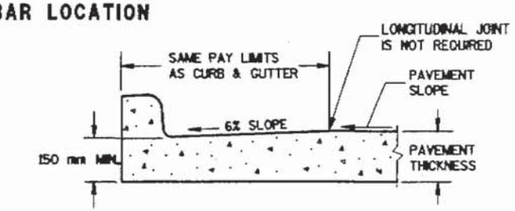
1
TYPICAL TIE BAR LOCATION



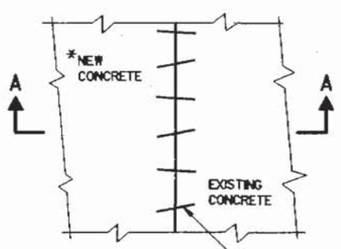
DRIVEWAY ENTRANCE CURB
(WHEN DIRECTED BY THE ENGINEER)



1
TYPES A & D
CONCRETE CURB & GUTTER 450 mm

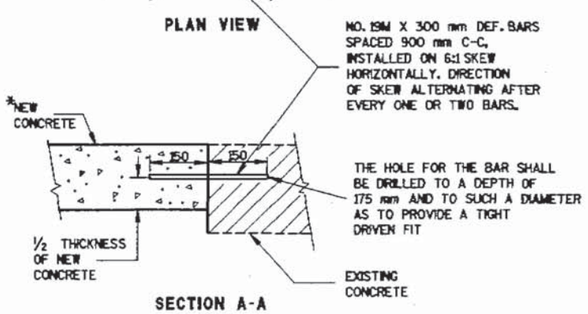


PARTIAL SECTION OF PAVEMENT
WITH INTEGRAL CURB & GUTTER

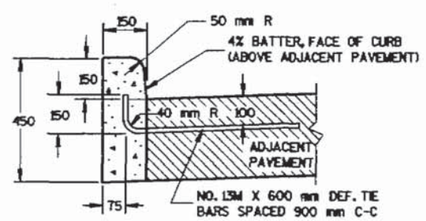


PLAN VIEW

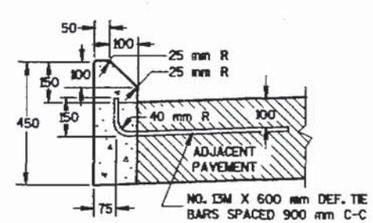
*NEW CURB & GUTTER, SURFACE DRAINS, CONCRETE PAVEMENT OR OTHER NEW CONCRETE.



SECTION A-A
PAVEMENT TIES

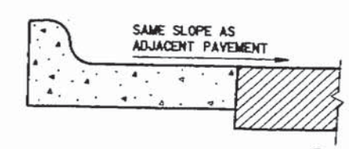


1
TYPES A & D



1
TYPES G & J

CONCRETE CURB



3
REVERSE SLOPE GUTTER
(TYPICAL FOR ALL CURB & GUTTER TYPES)

CONCRETE CURB, CONCRETE CURB & GUTTER AND PAVEMENT TIES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED 04/2/99 Tony L. Thinesen
DATE CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA M

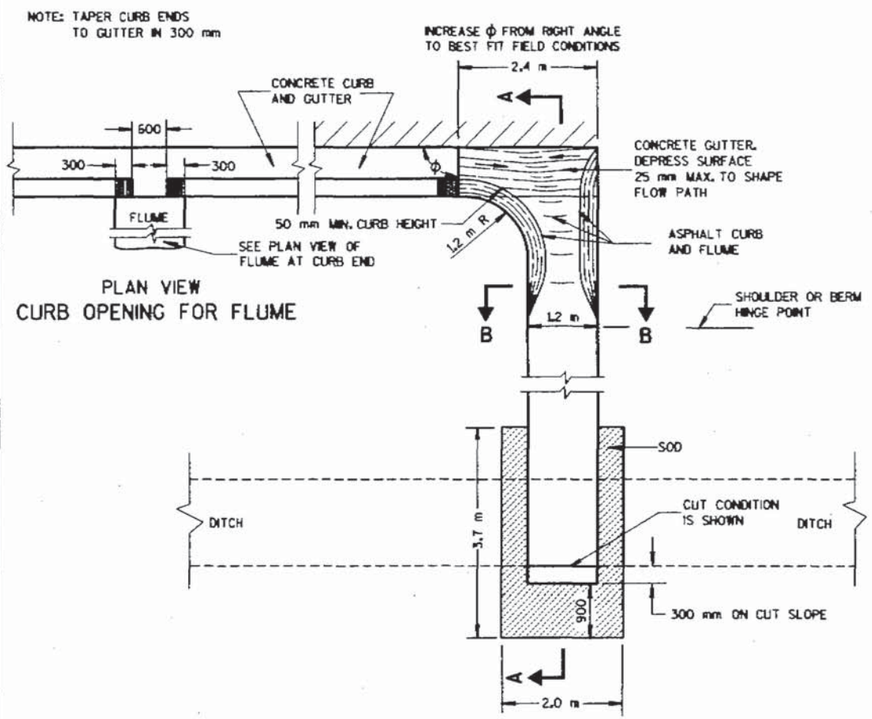
LEVELS ON - 2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

S.D.D. 8 D 1-13

FILE NAME:

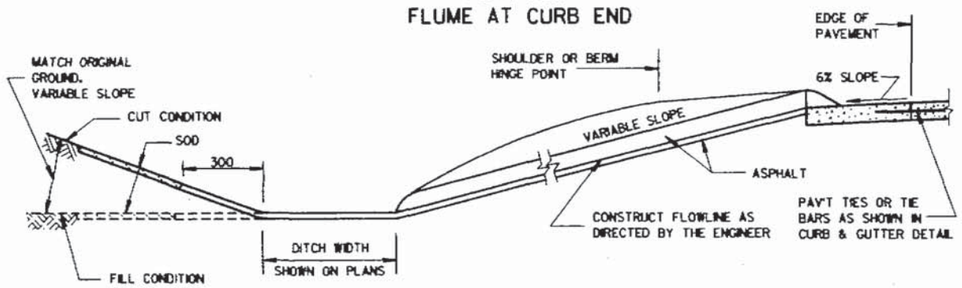
S.D.D. 8 D 1-13

ASPHALTIC FLUME

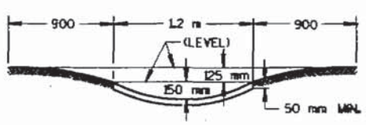


PLAN VIEW
CURB OPENING FOR FLUME

PLAN VIEW
FLUME AT CURB END



SECTION A-A



SECTION B-B

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

WELDED STEEL WIRE FABRIC SHALL BE IN ACCORDANCE WITH AASHTO SPECIFICATION M55.

① JOINTS SHALL BE 5 mm WIDE BY 40 mm DEEP AND SPACED AT UNIFORM INTERVALS OF APPROXIMATELY 1.2 m.

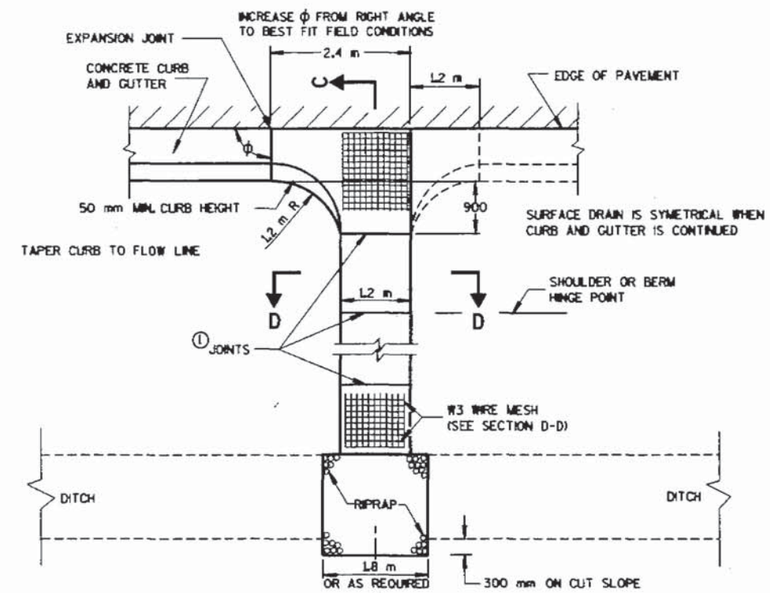
② GEOTEXTILE FABRIC TYPE "R" SHALL UNDERLAY THE FULL LENGTH AND WIDTH OF THE CONCRETE SURFACE DRAIN AND RIPRAP.

③ CONCRETE SURFACE DRAIN WITHOUT CURB AND GUTTER MAY BE USED ON BACKSLOPES WHEN SPECIFIED

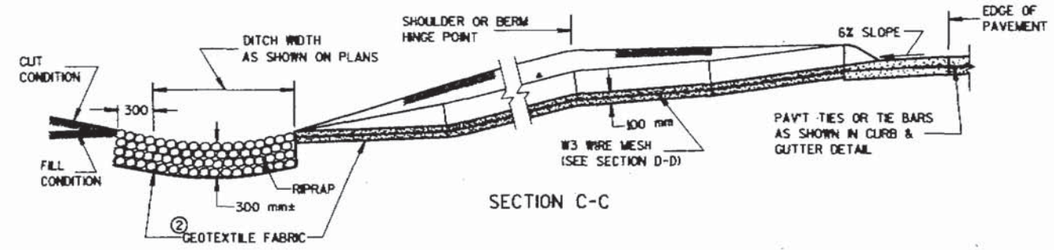
NOTE

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN.

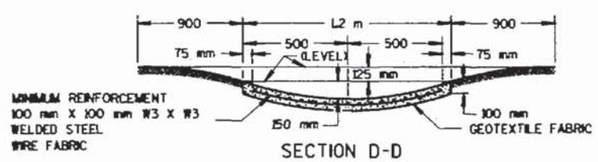
③ CONCRETE SURFACE DRAIN



PLAN VIEW



SECTION C-C



SECTION D-D

CONCRETE SURFACE DRAIN & ASPHALTIC FLUME

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED 02/08/95 DATE
Roy L. Thompson
CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA

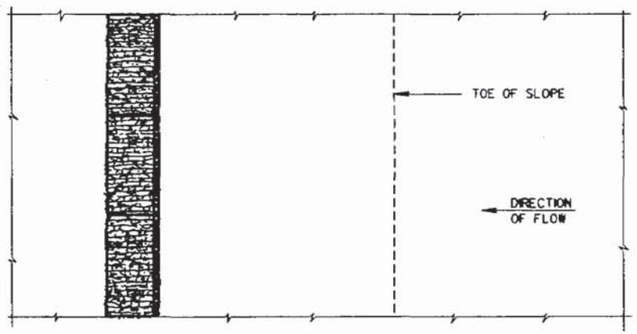
M

S.D.D. 8 D 4-3

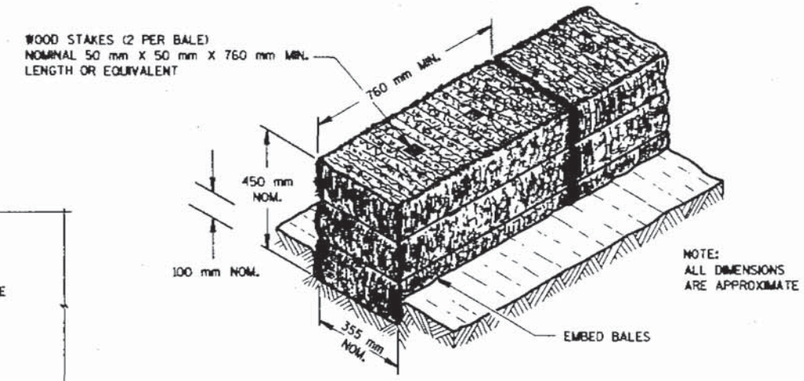
PLOT SCALE:
PLOT NAME:
REV. DATE:
ORIGINATOR:
LEVELS ON - 2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63
S.D.D. 8 D 4-3
FILE NAME:

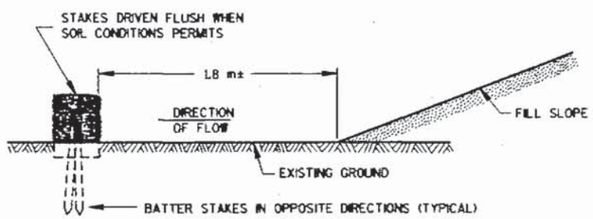
GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.



PLAN VIEW

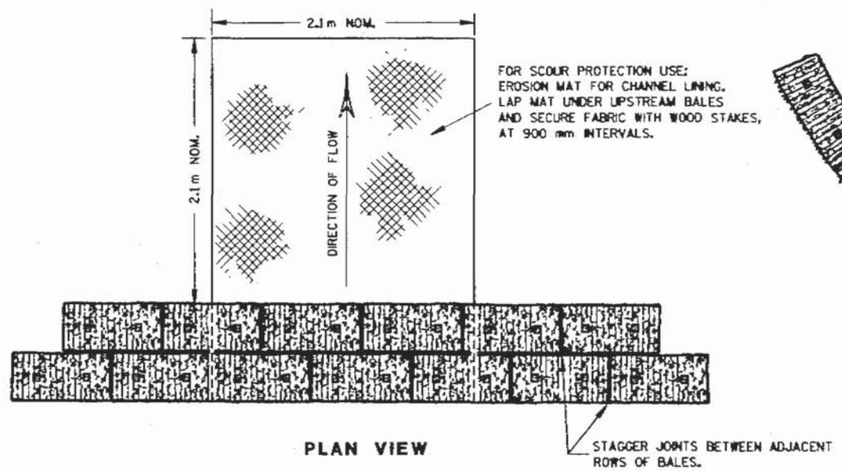




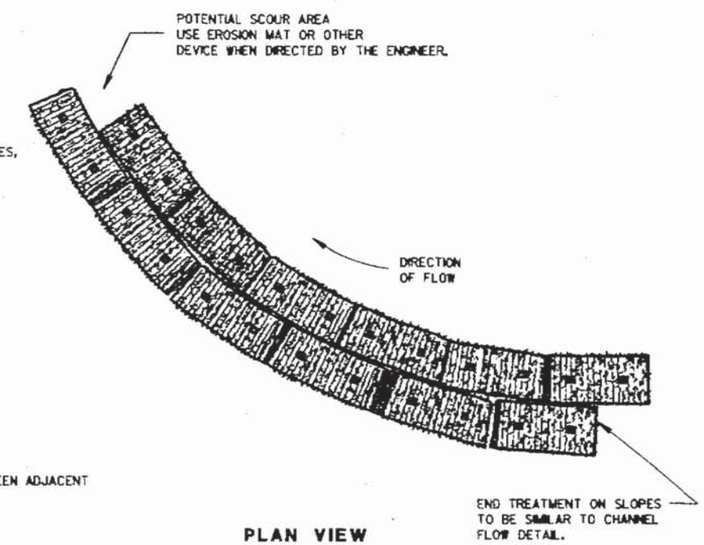
FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

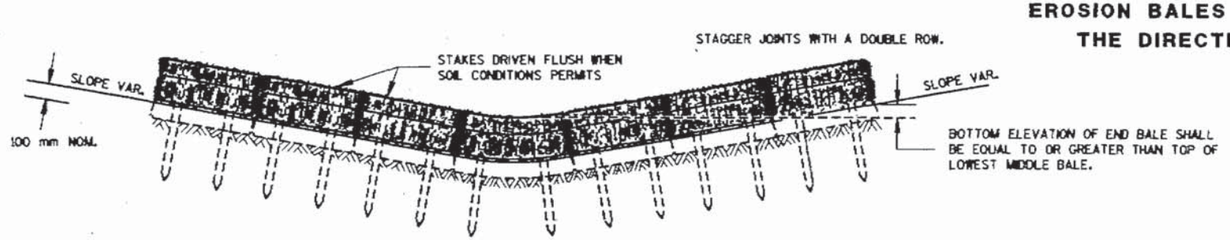


PLAN VIEW



PLAN VIEW

EROSION BALES WHEN ALTERING THE DIRECTION OF FLOW



FRONT ELEVATION

EROSION BALES FOR CHANNEL FLOW

TYPICAL INSTALLATIONS OF EROSION BALES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

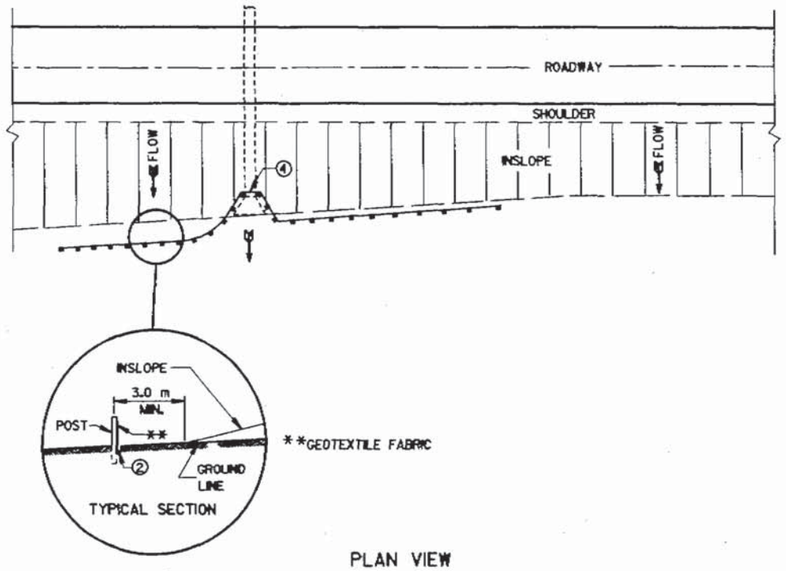
APPROVED
01/27/95 Roy L. Thompson
DATE CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA

M

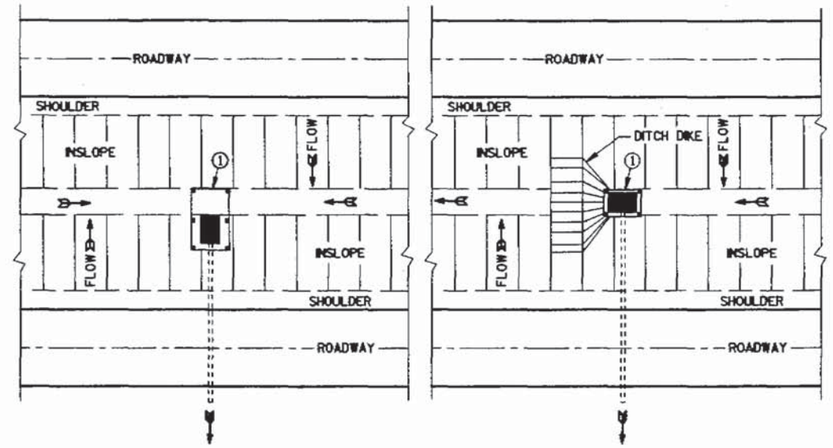
S.D.D. 8 E 8-2

PLOT SCALE:
PLOT NAME:
REV. DATE:
LEVELS ON • 2,3,4,5,6,7,8, 9,10,11,12,13,14,15, 16,17,18,19, 20,21,22, 23,24,25,26,27, 28,29,30,31,32,33, 34,35,36,37,38,39, 40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63
ORIGINATOR:
S.D.D. 8 E 8-2
FILE NAME:



PLAN VIEW

TYPICAL APPLICATIONS OF SILT FENCE



PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

GENERAL NOTES

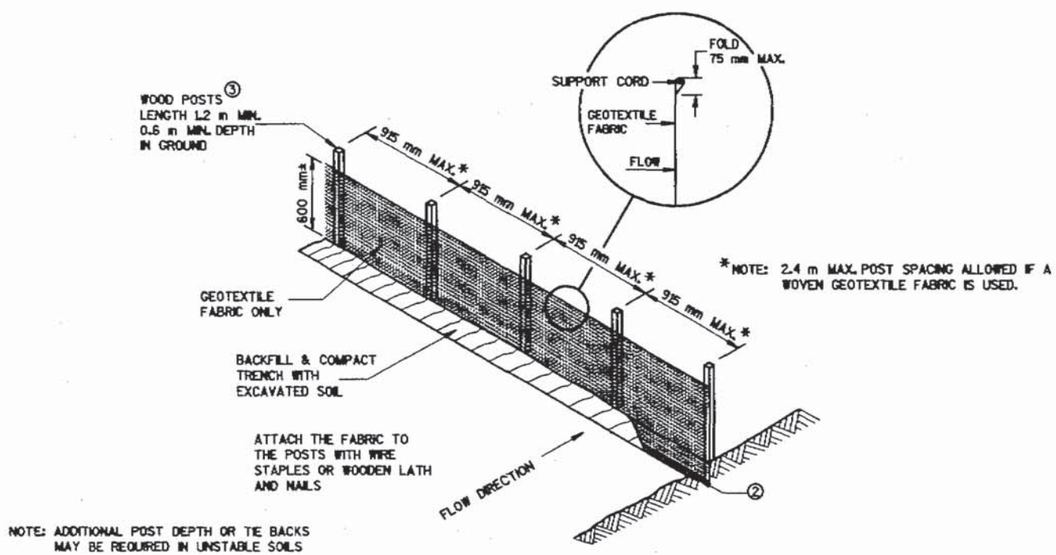
DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

① HORIZONTAL BRACE REQUIRED WITH 50 mm X 100 mm WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.

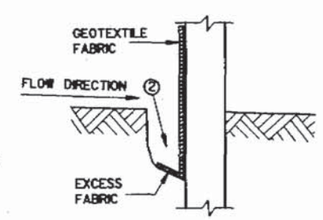
② TRENCH SHALL BE A MINIMUM OF 100 mm WIDE & 150 mm DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.

③ WOOD POSTS SHALL BE A MINIMUM SIZE OF 30 mm X 30 mm OF OAK OR HICKORY.

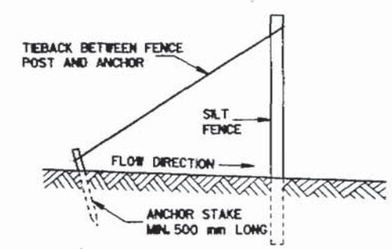
④ SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.



SILT FENCE
(NON-REINFORCED)



TRENCH DETAIL



SILT FENCE TIE BACK
(WHEN REQUIRED BY THE ENGINEER)

SILT FENCE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED 03/06/00 DATE — CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA

PLOT SCALE: PLOT NAME: REV. DATE: ORIGINATOR: LEVELS ON • 2,3,4,5,6,7,8, 9, 11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

S.D.D. 8 E 9-6

FILE NAME:

METAL APRON ENDWALLS

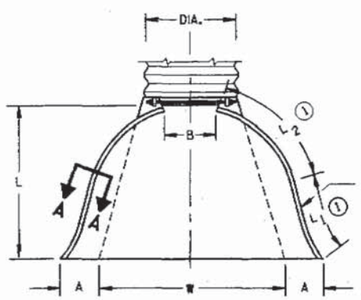
PIPE DIA. (mm)	MIN. THICK. (mm) STEEL	MIN. THICK. (mm) ALUM.	DIMENSIONS (MILLIMETERS) A (±1")	B (MAX.)	H (±1")	L (±1½")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
300	1.6	1.5	150	150	150	535	305	445	610	±2.5	1 Pc.
375	1.6	1.5	180	205	150	660	355	552	760	±2.5	1 Pc.
450	1.6	1.5	205	255	150	790	380	718	915	±2.5	1 Pc.
525	1.6	1.5	230	305	150	915	455	752	1065	±2.5	1 Pc.
600	1.6	1.5	255	330	150	1040	455	949	1220	±2.5	1 Pc.
750	2.0	1.9	305	405	205	1300	455	1327	1525	±2.5	1 Pc.
900	2.0	1.9	355	480	230	1525	610	1905	1830	±2.5	2 Pc.
1050	2.8	2.7	405	560	280	1755	610	1921	2135	±2.5	2 Pc.
1200	2.8	2.7	455	685	305	1980	610	2057	2285	±2.5	3 Pc.
1350	2.8	2.7	455	760	305	2140	760	2172	2590	±2.25	3 Pc.
1500	2.8×	2.7×	455	840	305	2210	—	—	2895	±2	3 Pc.
1650	2.8×	2.7×	455	915	305	2210	—	—	3050	±2	3 Pc.
1800	2.8×	2.7×	455	990	305	2210	—	—	3200	±2	3 Pc.
1950	2.8×	2.7×	455	1070	305	2210	—	—	3355	±1.5	3 Pc.
2100	2.8×	2.7×	455	1145	305	2210	—	—	3505	±1.5	3 Pc.
2250	2.8×	2.7×	455	940	305	2210	—	—	3660	±1.5	3 Pc.
2400	2.8×	2.7×	455	890	305	2210	—	—	3960	±1.5	3 Pc.

× EXCEPT CENTER PANEL
SEE GENERAL NOTES

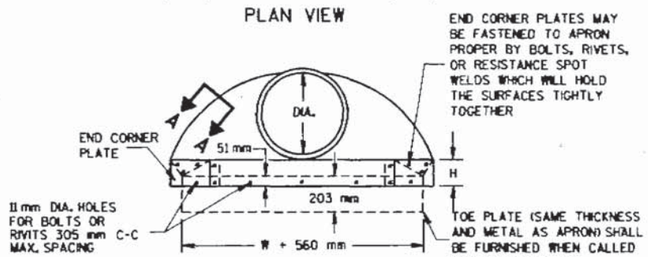
REINFORCED CONCRETE APRON ENDWALLS

PIPE DIA. (mm)	DIMENSIONS (MILLIMETERS) T	A	B	C	D	E	G	APPROX. SLOPE
305	51	102	610	1241	1851	610	51	±3
380	57	152	686	1168	1854	762	57	±3
450	64	229	686	1168	1854	914	64	±3
525	70	229	915	953	1867	1067	70	±3
600	76	241	1105	762	1867	1219	76	±3
675	83	267	1257	610	1867	1372	83	±3
750	89	305	1372	502	1867	1524	89	±3
900	102	381	1600	883	2483	1829	102	±3
1050	114	533	1600	889	2489	1981	114	±3
1200	127	610	1829	660	2489	2134	127	±3
1350	140	686	1651	* 635 **889	* 2496 ** 2540	2286	140	±2.4
1500	152	* 762 ** 924	1524	991	2515	2448	127	±2
1650	165	* 610 ** 762	* 1829 ** 1981	* 533 **686	2515	2591	140	±2
1800	178	* 610 ** 915	1981	533	2515	2743	152	±2
1950	190	* 610 ** 915	1981	533	2515	2896	165	±2
2100	203	915	2299	533	2832	3048	165	±1.5
2250	216	1041	2222	610	2832	3353	165	±1.5

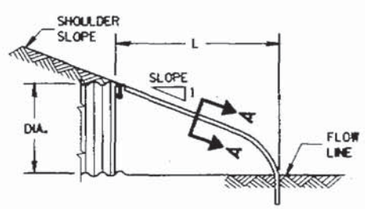
* MINIMUM
** MAXIMUM



PLAN VIEW

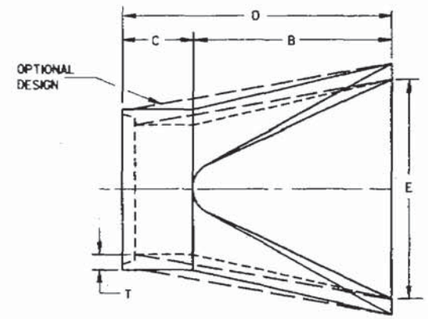


END VIEW

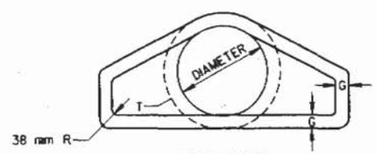


SIDE ELEVATION

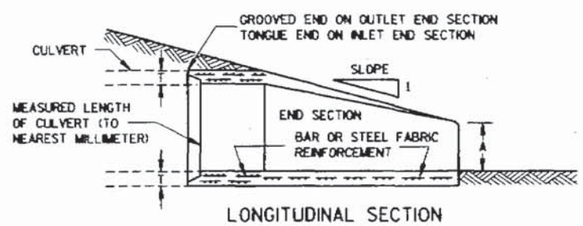
METAL ENDWALLS



PLAN

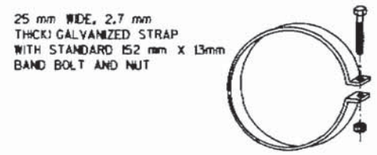


END VIEW



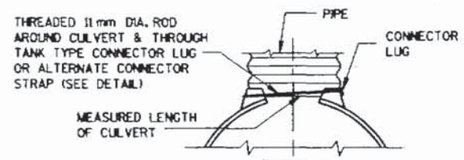
LONGITUDINAL SECTION

CONCRETE ENDWALLS

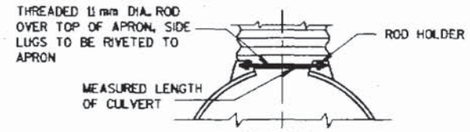


ALTERNATE FOR TYPE 1 CONNECTION

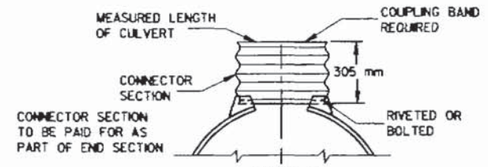
END SECTION CONNECTOR STRAP



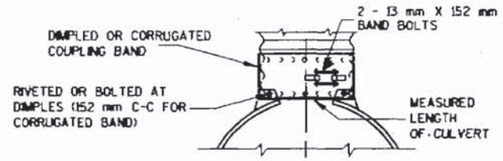
TYPE 1
FOR 300 mm THRU 600 mm CORR. PIPE



TYPE 2
FOR 750 mm THRU 2400 mm CORR. PIPE



TYPE 3
FOR 1050 mm THRU 2400 mm CORR. PIPE



TYPE 5

ALTERNATE FOR:
ALL SIZES CORRUGATED CIRCULAR PIPE

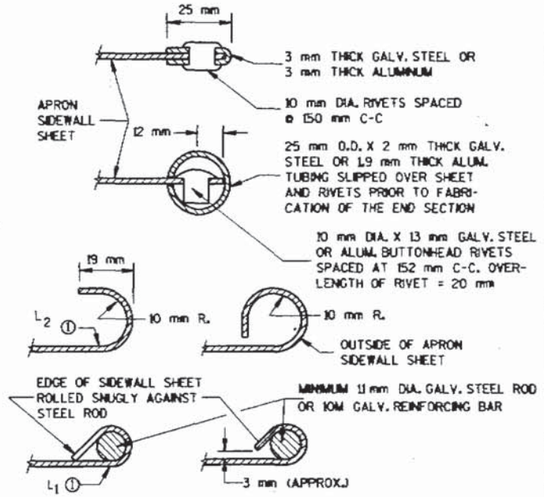
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL, AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

FOR CIRCUMFERENTIALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2, 3 OR 5 AS APPLICABLE.

FOR HELICALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2 OR 5.

FOR HELICALLY CORRUGATED PIPES WITH TWO CIRCUMFERENTIAL CORRUGATIONS AT EACH END USE ENDWALL CONNECTION DETAILS 1, 2 OR 3.

CONNECTION DETAILS



SECTION A-A

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

CONCRETE CULVERT ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA. GALVANIZED STEEL OR ALUMINUM ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 1500 mm DIAMETER PIPE AND LARGER SHALL HAVE 2.8 mm SIDES AND 3.5 mm CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 1500 mm DIAMETER PIPE AND LARGER SHALL HAVE 3.4 mm SIDES AND 3.4 mm CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE PERIMETER.

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 1500 mm THROUGH 2400 mm DIAMETER APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 152 mm BETWEEN APRON ENDWALLS.

① FOR PIPE SIZES UP TO 1500 mm DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

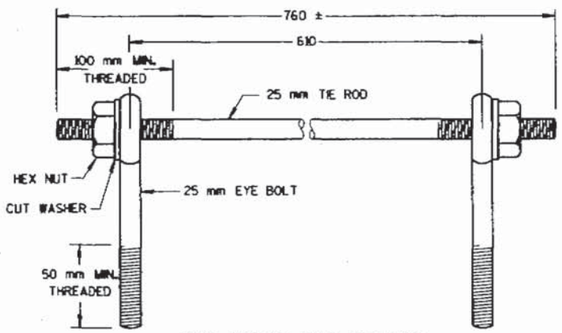
APRON ENDWALLS FOR CULVERT PIPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

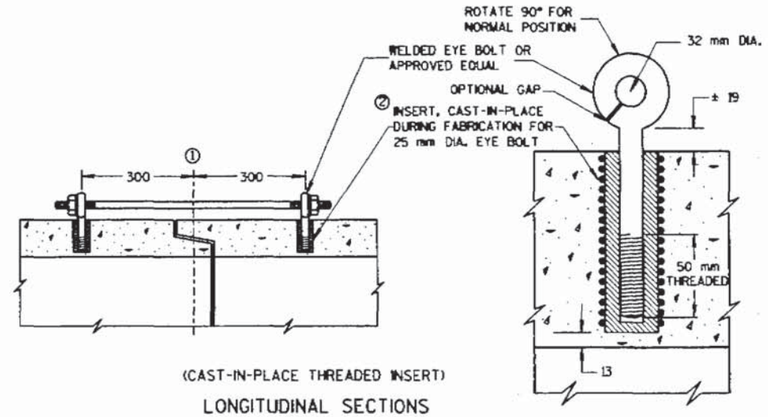
APPROVED 01/27/95 Roy A. Thompson
DATE CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA M

PLOT SCALE:
PLOT NAME:
REV. DATE:
ORIGINATOR:
LEVELS ON • 2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63
S.D.D. 8 F 1-11
FILE NAME:



EYE BOLTS AND TIE ROD



(CAST-IN-PLACE THREADED INSERT)

LONGITUDINAL SECTIONS

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 1)

GENERAL NOTES

CONCRETE CULVERT PIPE SHALL BE TIED TOGETHER IN THE MANNER ILLUSTRATED BY THIS DETAIL AT LOCATIONS DESIGNATED ON THE PLAN. THE CONTRACTOR MAY USE EITHER ALTERNATE 1, 2 OR 3 FOR DRAINAGE STRUCTURES. ONLY ALTERNATE 1 AND 3 MAY BE USED FOR CATTLE PASSES. UNLESS OTHERWISE STATED IN THE CONTRACT THE MATERIALS, FABRICATION AND WORK NECESSARY TO TIE CULVERT PIPE AS INDICATED ON THE PLANS AND BY THIS DETAIL WILL BE CONSIDERED INCIDENTAL TO CULVERT PIPE, REINFORCED CONCRETE CULVERT PIPE, OR REINFORCED CONCRETE PIPE CATTLE PASS.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR JOINT TIES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

① CENTERLINE OF TONGUE AND GROOVE OR BELL AND SPIGOT JOINTS.

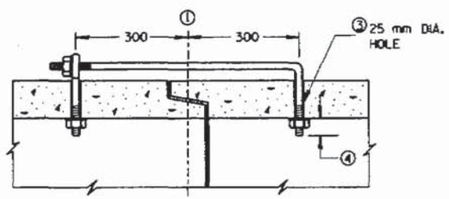
② THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.

③ HOLES SHALL BE CAST-IN-PLACE OR DRILLED.

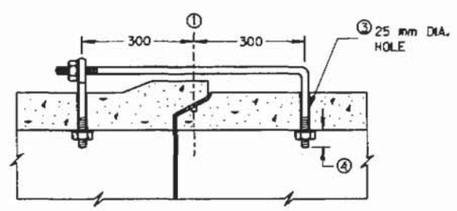
④ BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 50 mm.

⑤ ROD DIAMETER + 25 mm.

⑥ LENGTH ADEQUATE TO EXTEND TO WITHIN 13 mm OF THE INNER SURFACE OF THE PIPE.



(TONGUE & GROOVE PIPE)



(MODIFIED BELL PIPE)

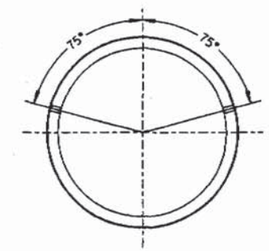
LONGITUDINAL SECTION

EYE BOLT DIMENSION TABLE

PIPE SIZE	L = LENGTH	
	TONGUE & GROOVE PIPE	MODIFIED BELL PIPE
400-600	115	160
750	130	180
900	140	180
1000	150	
1200	165	
1500	190	
1650	200	

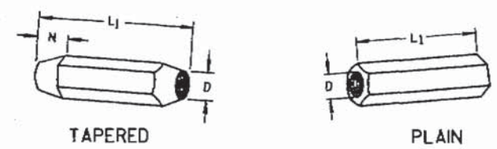
ADJUSTABLE TIE ROD TABLE

PIPE DIAMETER	TIE ROD DIAMETER	D	L_1	N
300-1500	16	16	125	13
1650-2100	19	19	125	13
2250-2700	25	25	180	36



PLACEMENT OF (2) CAST-IN-PLACE INSERTS OR HOLES DURING FABRICATION FOR PIPE SECTIONS REQUIRING TIE RODS

TRANSVERSE SECTION



TAPERED

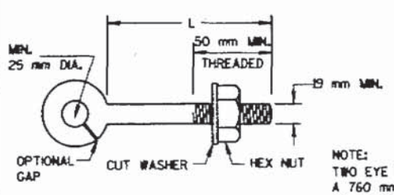
PLAIN

RIGHT AND LEFT THREADS

SLEEVE NUTS

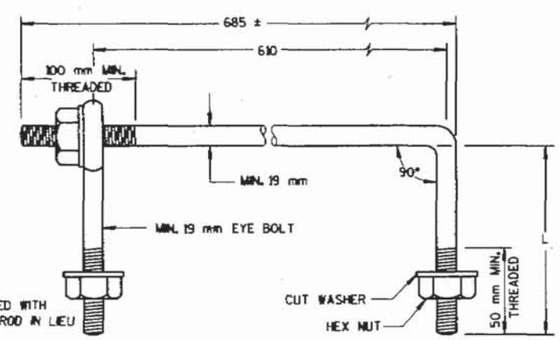
NOTE

ALL DIMENSIONS IN THIS DRAWING ARE IN MILLIMETERS.



EYE BOLT

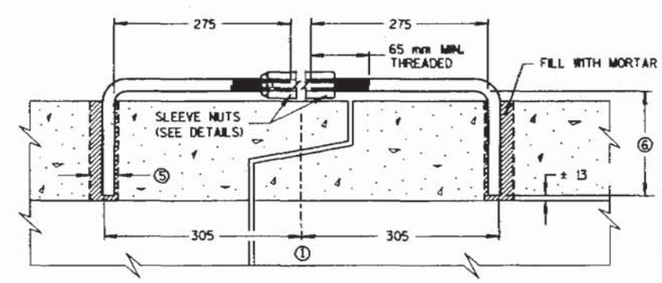
NOTE:
TWO EYE BOLTS MAY BE USED WITH A 760 mm LONG THREADED ROD IN LIEU OF THE 90° BENT TIE ROD.



EYE BOLT AND TIE ROD

(JOINT TIES FOR 450 mm TO 1650 mm DIA. CONCRETE PIPE)

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 2)



LONGITUDINAL SECTION

(JOINT TIES FOR 300 mm TO 2700 mm DIA. CONCRETE PIPE)

ADJUSTABLE TIE ROD (ALTERNATE NO. 3)

JOINT TIES FOR CONCRETE PIPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
01/27/95
DATE
Roy L. Thompson
CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA

M

S.D.D. 8 F 4-5

PLOT SCALE:

PLOT NAME:

REV. DATE:

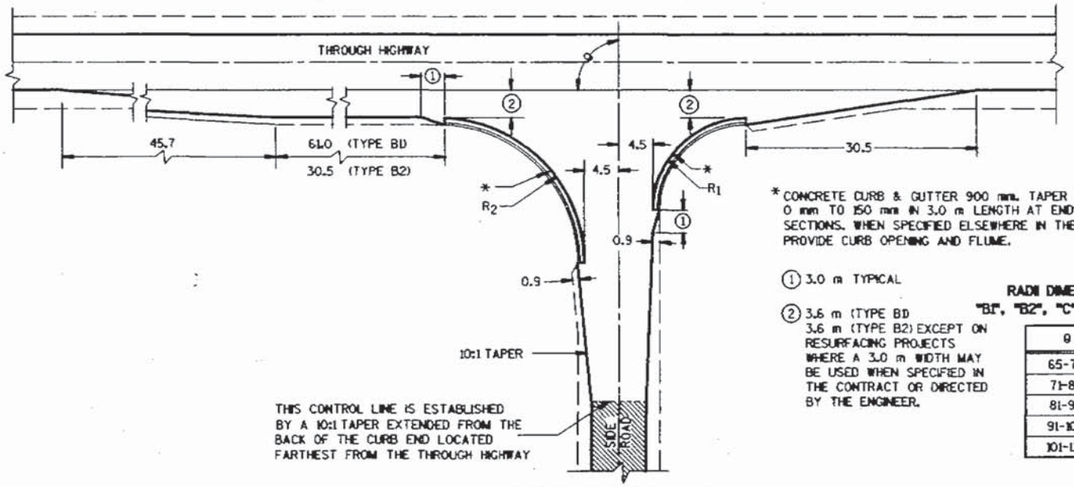
ORIGINATOR:

LEVELS ON - 2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

S.D.D. 8 F 4-5

FILE NAME:

S.D.D. 8 F 4-5



TYPE "B1" AND "B2"

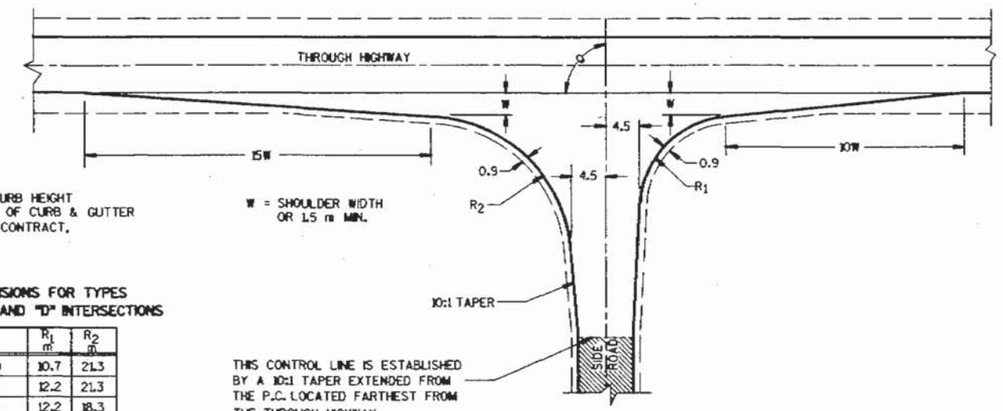
*CONCRETE CURB & GUTTER 900 mm. TAPER CURB HEIGHT 0 mm TO 150 mm IN 3.0 m LENGTH AT ENDS OF CURB & GUTTER SECTIONS. WHEN SPECIFIED ELSEWHERE IN THE CONTRACT, PROVIDE CURB OPENING AND FLUME.

(1) 3.0 m TYPICAL

(2) 3.6 m (TYPE B1)
3.6 m (TYPE B2) EXCEPT ON RESURFACING PROJECTS WHERE A 3.0 m WIDTH MAY BE USED WHEN SPECIFIED IN THE CONTRACT OR DIRECTED BY THE ENGINEER.

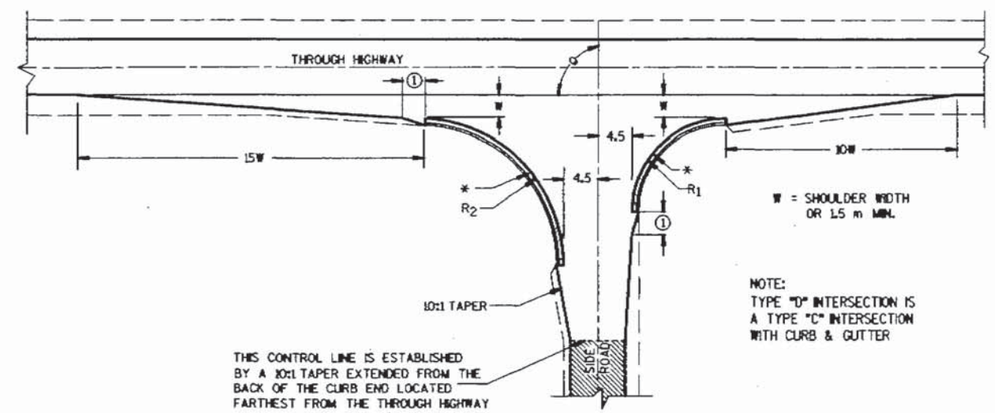
RADII DIMENSIONS FOR TYPES "B1", "B2", "C" AND "D" INTERSECTIONS

θ	R_1 m	R_2 m
65-70	10.7	21.3
71-80	12.2	21.3
81-90	12.2	18.3
91-100	15.2	16.8
101-110	18.3	13.7



W = SHOULDER WIDTH OR 1.5 m MIN.

TYPE "C"



W = SHOULDER WIDTH OR 1.5 m MIN.

NOTE:
TYPE "D" INTERSECTION IS A TYPE "C" INTERSECTION WITH CURB & GUTTER

TYPE "D"

GENERAL NOTES

DESIGNS MAY BE USED INTERCHANGEABLY IN COMBINATION OR SEPARATELY FOR ANY ONE COMPLETE INTERSECTION DEPENDING UPON INTERSECTION ANGLE AND SURFACING OF EACH APPROACH ROADWAY.

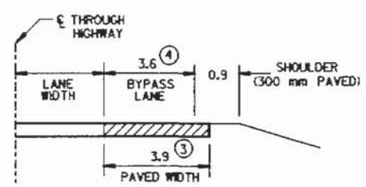
SIDE ROAD SURFACING NOTE

WHEN THE SIDE ROAD IS NOT PRESENTLY PAVED, PAVEMENT SHALL BE PLACED TO THE LIMITS SHOWN UNLESS OTHERWISE PROVIDED IN THE CONTRACT. WHERE THE CONSTRUCTION LIMITS ARE BEYOND THE PAVING LIMITS, CRUSHED AGGREGATE SURFACING SHALL BE PLACED BETWEEN THE PAVING LIMITS AND CONSTRUCTION LIMITS.

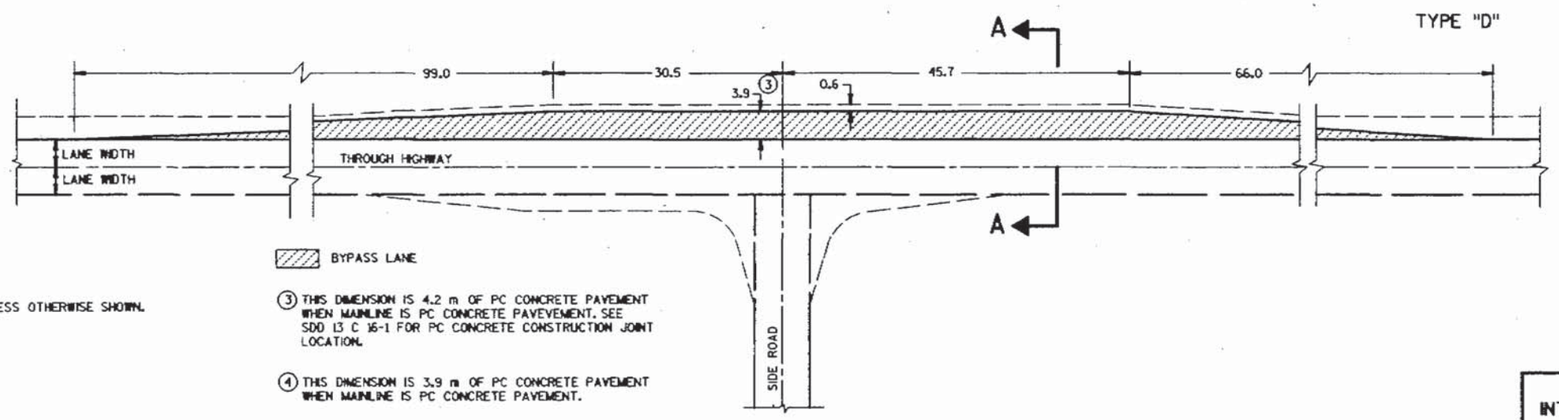
WHEN THE SIDE ROAD IS PRESENTLY PAVED, NEW PAVEMENT SHALL BE PLACED TO THE LIMITS OF DESIGN AS SHOWN AND BEYOND, IF NECESSARY, TO MEET EXISTING PAVEMENT.

WHEN THE SIDE ROAD IS THE CONSTRUCTION PROJECT, THE INTERSECTION SURFACING SHALL BE THE SAME AS FOR THE PROJECT.

EXISTING SURFACE



SECTION A-A
(SHOWING BYPASS LANE AND SHOULDER)



BYPASS LANE

(3) THIS DIMENSION IS 4.2 m OF PC CONCRETE PAVEMENT WHEN MAINLINE IS PC CONCRETE PAVEVEMENT. SEE SDD 13 C 16-1 FOR PC CONCRETE CONSTRUCTION JOINT LOCATION.

(4) THIS DIMENSION IS 3.9 m OF PC CONCRETE PAVEMENT WHEN MAINLINE IS PC CONCRETE PAVEMENT.

NOTE:

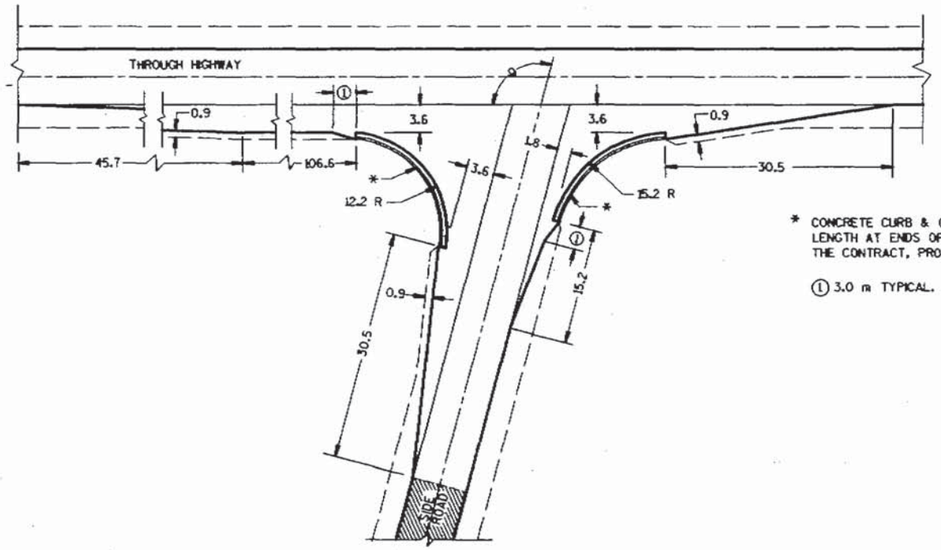
ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

TEE INTERSECTION BYPASS LANE DETAIL

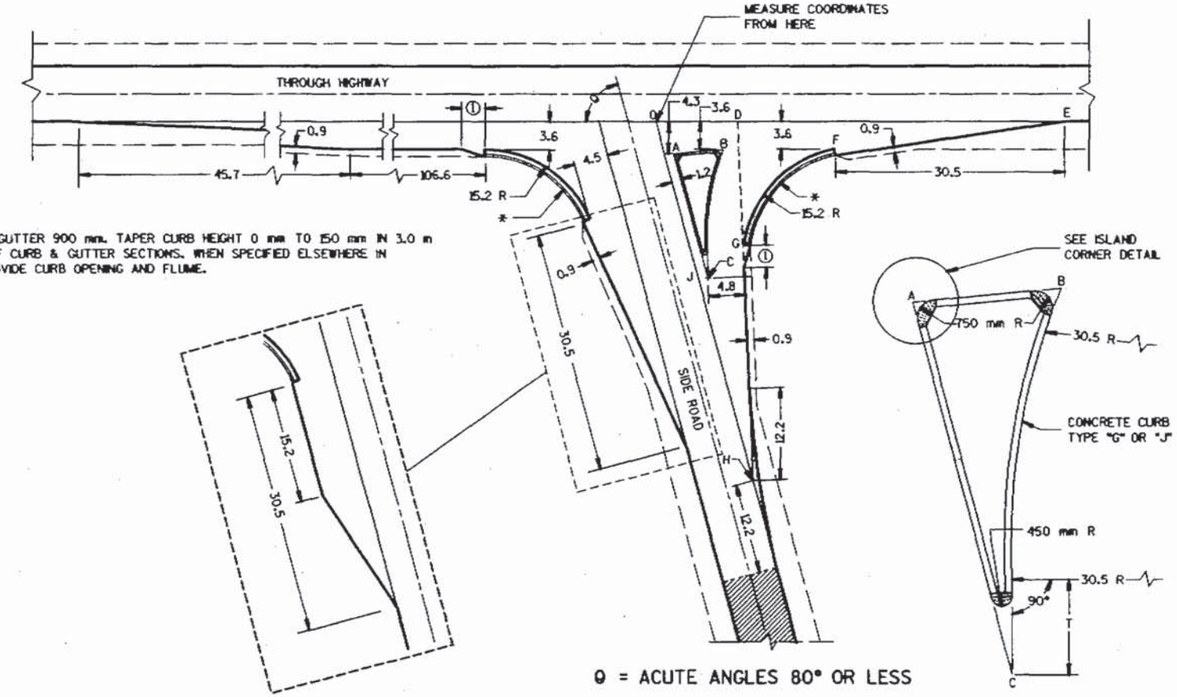
AT-GRADE SIDE ROAD INTERSECTION, TYPES "B1", "B2", "C" AND 'D' AND TEE INTERSECTION BYPASS LANE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

S.D.D. 9 A 1-11a



θ = MORE THAN 80°



θ = ACUTE ANGLES 80° OR LESS

* CONCRETE CURB & GUTTER 900 mm. TAPER CURB HEIGHT 0 mm TO 150 mm IN 3.0 m LENGTH AT ENDS OF CURB & GUTTER SECTIONS. WHEN SPECIFIED ELSEWHERE IN THE CONTRACT, PROVIDE CURB OPENING AND FLUME.

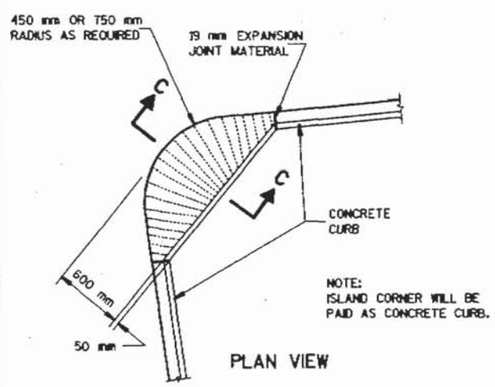
① 3.0 m TYPICAL.

EXISTING SURFACE

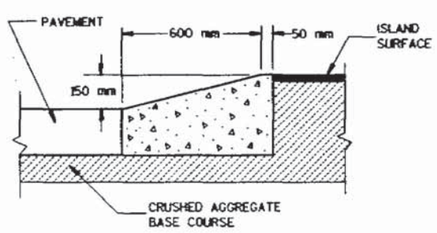
SIDE ROAD WIDENING AND TAPER REQUIRED WHERE THE THROUGH HIGHWAY CARRIES TWO-WAY TRAFFIC
θ = ACUTE ANGLES 70° OR LESS

NOTE:

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.



PLAN VIEW



SECTION C-C

ISLAND CORNER DETAIL

(TO BE CONSTRUCTED AT ALL ISLAND CORNERS)

TABLE OF DIMENSIONS FOR
VARIABLE SIDE ROAD INTERSECTION ANGLES
(INTERPOLATE VALUES FOR ANGLES NOT SHOWN)

ANGLE θ DEGREES	COORDINATES IN METERS (MEASURED FROM POINT "O") X/Y								LENGTH IN METERS				
	A	B	C	D	E	F	G	H	AB	AC	T	OJ	OH
60	3.87 / -4.30	13.52 / -3.60	14.13 / -22.07	12.59 / 0.0	61.85 / 0.0	31.72 / -3.60	19.40 / -22.96	25.90 / -44.85	9.68	20.52	1.80	26.18	51.79
65	3.33 / -4.30	11.74 / -3.60	11.51 / -21.84	11.84 / 0.0	59.15 / 0.0	29.02 / -3.60	16.39 / -21.75	21.50 / -46.10	8.44	19.36	2.90	24.66	50.87
70	2.84 / -4.30	10.19 / -3.60	9.06 / -21.39	11.22 / 0.0	56.76 / 0.0	26.62 / -3.60	13.79 / -20.52	17.11 / -47.00	7.38	18.19	3.78	23.20	50.02
75	2.39 / -4.30	8.82 / -3.60	6.79 / -20.71	10.72 / 0.0	54.60 / 0.0	24.47 / -3.60	11.53 / -19.28	12.73 / -47.51	6.46	16.99	4.46	21.76	49.19
80	1.98 / -4.30	7.61 / -3.60	4.72 / -19.87	10.32 / 0.0	52.67 / 0.0	22.54 / -3.60	9.60 / 18.02	8.41 / -47.69	5.68	15.81	5.02	20.39	48.43

TYPE "A" SIDE ROAD INTERSECTION DETAILS

AT-GRADE SIDE ROAD INTERSECTION, TYPE "A"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED 4/08/98 DATE — CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA M

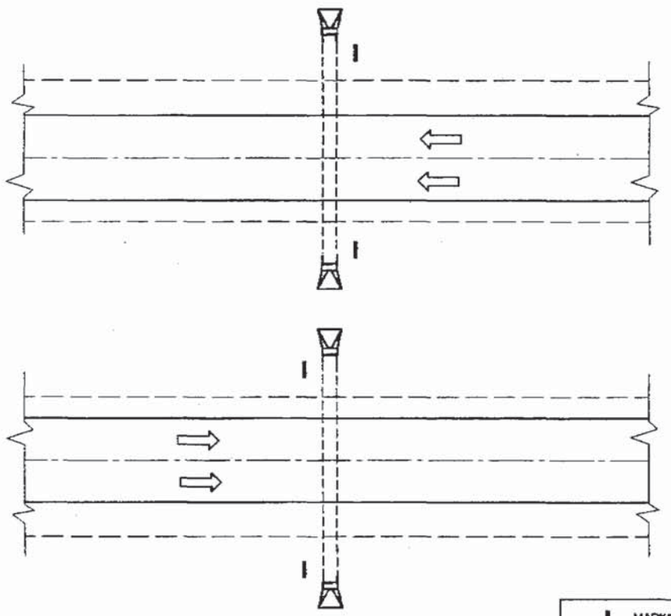
S.D.D. 9 A 1-11b

GENERAL NOTES

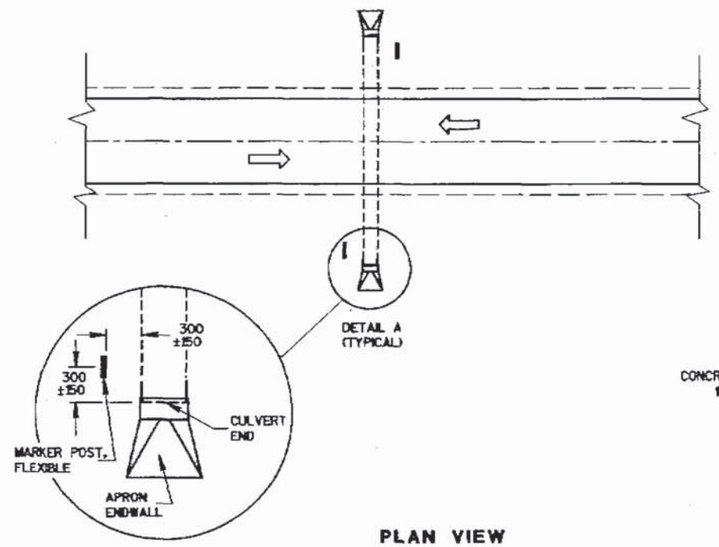
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

NOTE

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN.



PLAN VIEW
DIVIDED HIGHWAY



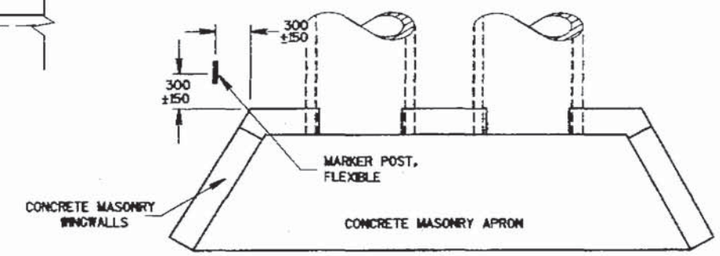
DETAIL A
(TYPICAL)

PLAN VIEW
UNDIVIDED HIGHWAY

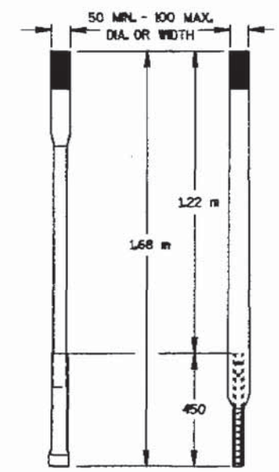
I MARKER POST, FLEXIBLE

DIRECTION OF TRAFFIC FLOW

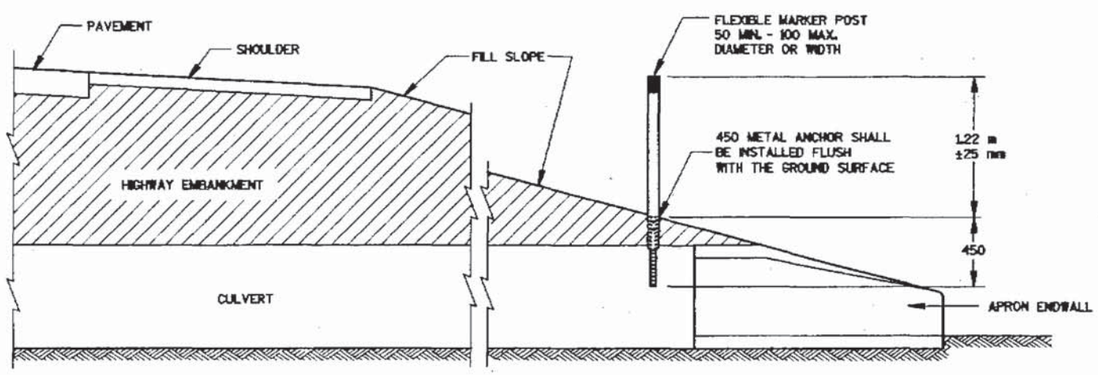
FLEXIBLE MARKER POST LOCATION



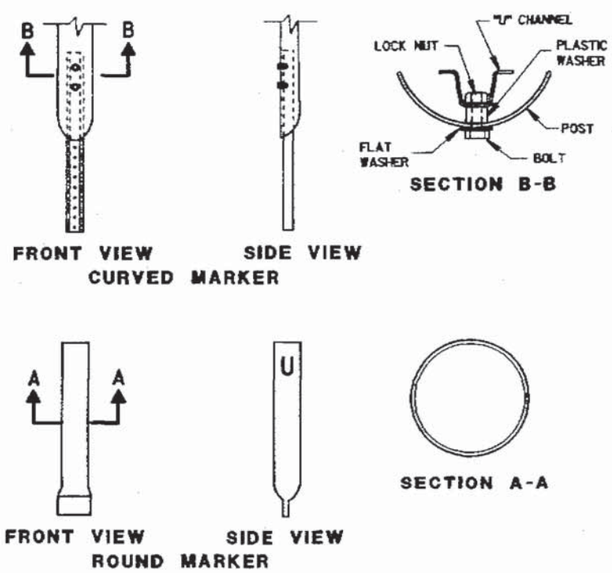
PLAN VIEW
CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH



ALTERNATE 1 ALTERNATE 2
FLEXIBLE MARKER POST



CROSS SECTION
FLEXIBLE MARKER POST



FRONT VIEW SIDE VIEW
CURVED MARKER

SECTION B-B

SECTION A-A

FRONT VIEW SIDE VIEW
ROUND MARKER

FLEXIBLE MARKER POST ANCHORS

MARKER POST, FLEXIBLE,
FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED 10/01/98 DATE — CHIEF ROADWAY DEVELOPMENT ENGINEER

M

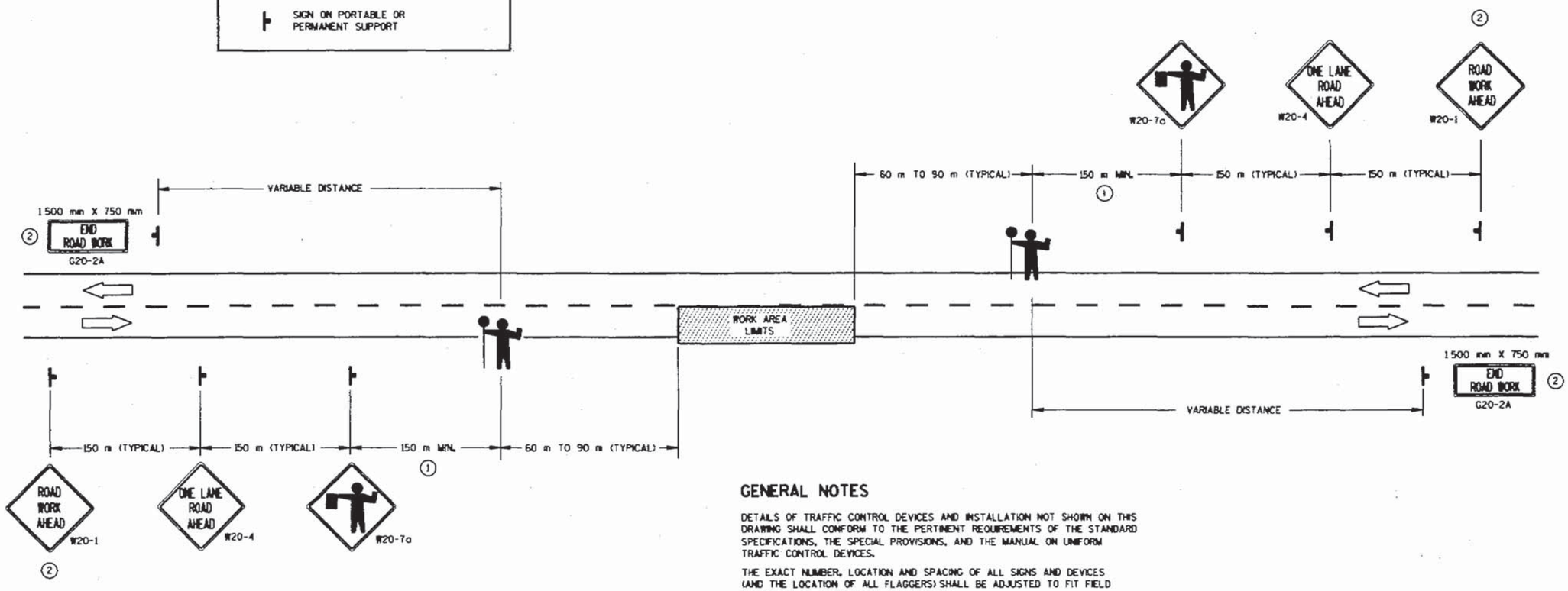
S.D.D. 15 A 3-1

TWO-LANE ROADWAY

SYMBOLS

- WORK AREA
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- SIGN ON PORTABLE OR PERMANENT SUPPORT

USE OF THE "BE PREPARED TO STOP" SIGN IS OPTIONAL. WHEN USED, THIS SIGN SHALL BE LOCATED BETWEEN THE W20-7a AND W20-4 SIGNS. A 150 m TYPICAL SPACING SHALL BE PROVIDED BETWEEN THE SIGNS.



① FOR A MOVING WORK OPERATION, SIGNING FOR BOTH DIRECTIONS SHALL BE REESTABLISHED (AS SIMULTANEOUSLY AS PRACTICAL) AT APPROXIMATELY 1.0 km INTERVALS IN THE MOVING WORK OPERATION OR AS DIRECTED BY THE ENGINEER.

② SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.

GENERAL NOTES

DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES (AND THE LOCATION OF ALL FLAGGERS) SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

THE FIRST ADVANCE WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP OR QUEUE.

WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS DIRECTED BY THE ENGINEER.

FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT, THE "FLAGGER AHEAD", THE "ROAD WORK AHEAD" AND THE ONE LANE ROAD AHEAD" SIGNS SHALL BE COVERED OR REMOVED AND THE HIGHWAY RESTORED TO NORMAL OPERATION.

ALL SIGNS ARE 1200 mm X 1200 mm UNLESS OTHERWISE NOTED.

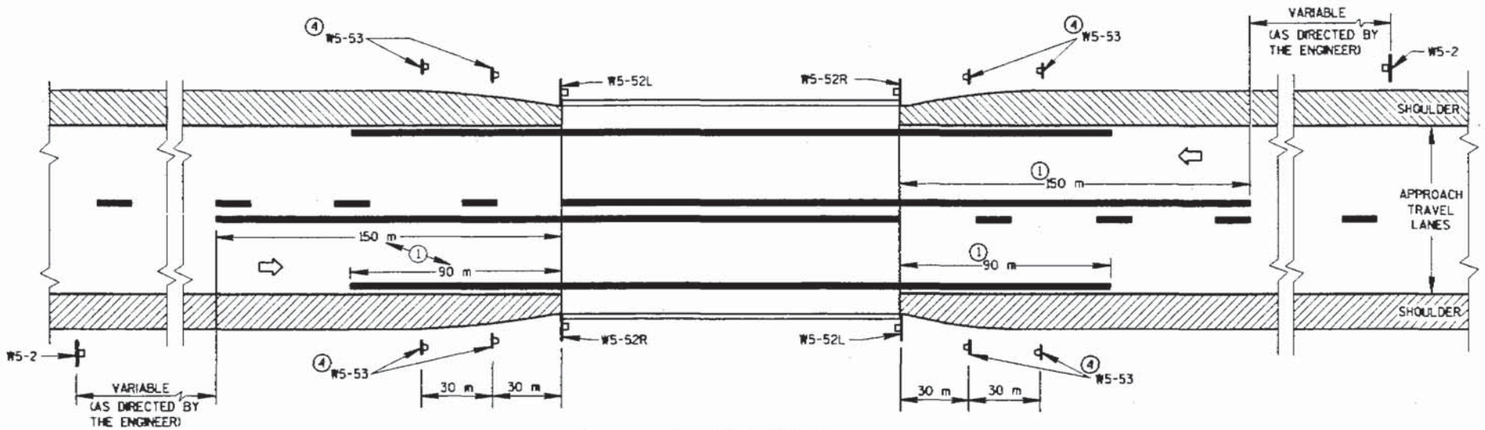
TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
8-7-95
DATE
for DIRECTOR, OFFICE OF TRAFFIC
FHWA

S.D.D. 15 C 12-2

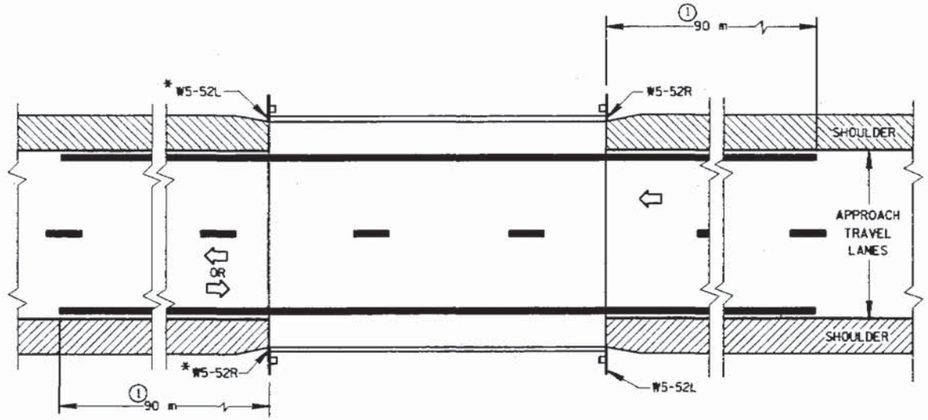
S.D.D. 15 C 12-2



SITUATION 1

WARRANTING CRITERION:

BRIDGE WIDTH IS AT LEAST 5.4 m BUT LESS THAN 7.2 m.

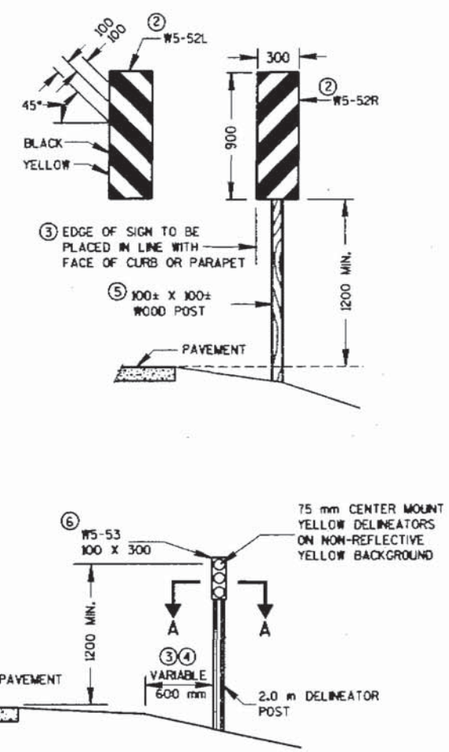


*NOT REQUIRED ON EXIT END OF BRIDGE WHERE TRAFFIC IS ONE-WAY.

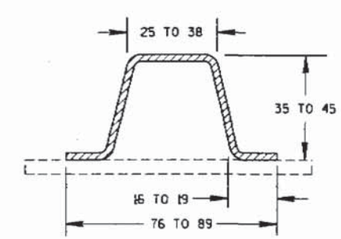
SITUATION 2

WARRANTING CRITERIA:

1. BRIDGE WIDTH IS AT LEAST 7.2 m AND
2. BRIDGE IS LESS THAN 1.8 m WIDER (ON EACH SIDE) THAN APPROACH TRAVEL LANES.



OBJECT MARKER PLACEMENT



SECTION A-A

(MINIMUM WEIGHT 2.8 kg/m AFTER GALVANIZING)

GENERAL NOTES

DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

PAVEMENT MARKING SHOWN ON THIS DRAWING IS NOT REQUIRED UNLESS OTHERWISE SPECIFIED IN THE CONTRACT. WHEN SPECIFIED, PAVEMENT MARKING SHALL CONFORM TO THIS DRAWING AND OTHER CONTRACT REQUIREMENTS.

① MINIMUM DISTANCE UNLESS OTHERWISE SHOWN ON THE PLAN.

② FACE OF OBJECT MARKERS W5-52R AND W5-52L SHALL BE COVERED WITH TYPE H REFLECTIVE SHEETING.

③ LOCATE OBJECT MARKER POST(S) BEHIND GUARDRAIL WHEN PRESENT.

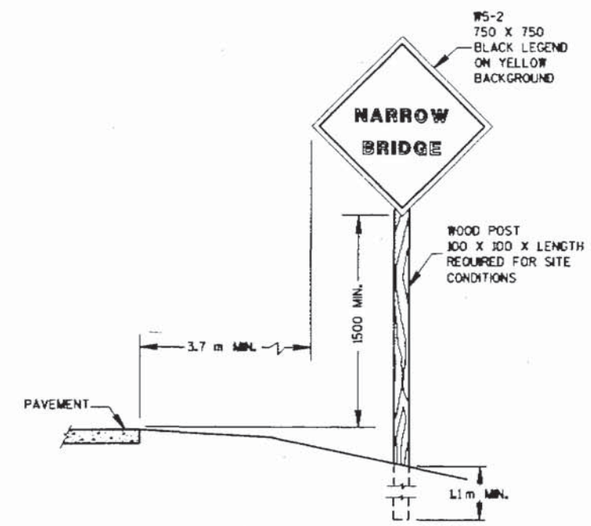
④ OBJECT MARKERS (W5-53) SHALL BE LOCATED ALONG A LINE FLARED AWAY FROM THE BRIDGE CORNER TO DELINEATE THE NARROWING OF THE SHOULDER OR BERM.

⑤ A 3.0 m DELINEATOR POST MAY BE USED INSTEAD OF A WOOD POST.

⑥ NON-BID ITEM. INCIDENTAL TO OTHER ITEMS.

NOTE:

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN.



SIGN PLACEMENT

SIGNING & MARKING FOR TWO LANE BRIDGES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

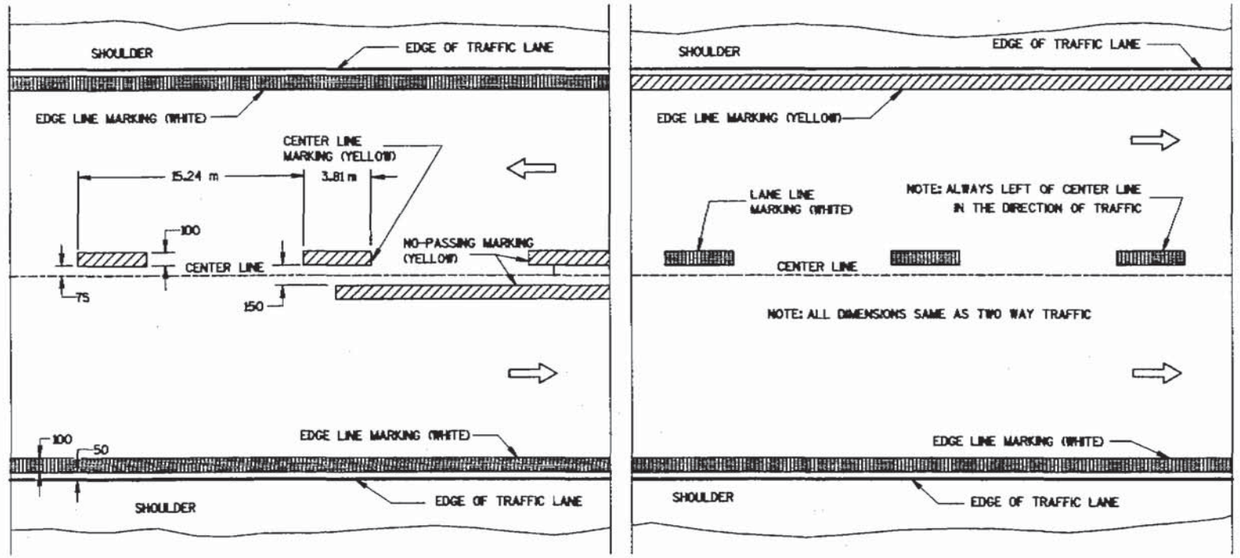
APPROVED
8-7-95
DATE

Charles J. Sparge
for DIRECTOR, OFFICE OF TRAFFIC

FHWA

M

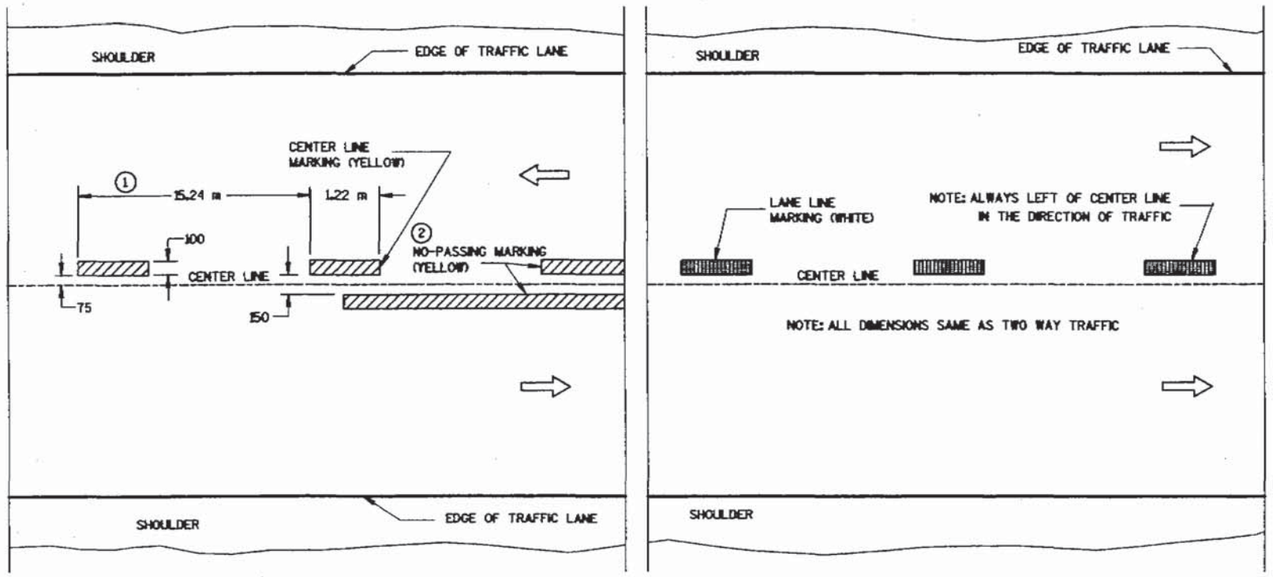
S.D.D. 15 C 6-4



TWO WAY TRAFFIC

ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING



TWO WAY TRAFFIC

ONE WAY TRAFFIC

TEMPORARY (INTERMEDIATE) PAVEMENT MARKING

(SHOWS CYCLE FOR TEMPORARY CENTER LINE OR TEMPORARY LANE LINE MARKING)

GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

1. HALF CYCLE LENGTHS (7.62 m±) WITH 600 mm MINIMUM STRIPE LENGTHS SHALL BE PROVIDED ON ROADWAYS (INCLUDING TEMPORARY TRAVELED WAYS) WITH REVERSE CURVATURE, CURVATURE OF OVER 5 DEGREES OR WHEN DIRECTED BY THE ENGINEER TO MARK UNUSUAL ALIGNMENT OF THE TRAVELED WAY.

2. NO PASSING ZONE TEMPORARY PAVEMENT MARKING IS REQUIRED TO BE PLACED, WHERE APPROPRIATE, ALONG WITH CENTERLINE TEMPORARY PAVEMENT MARKING WHEN A SAME DAY PERMANENT PAVEMENT MARKING ITEM IS INCLUDED IN THE CONTRACT.

NOTE

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN.

PAVEMENT MARKING
(MAINLINE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
2-17-00
DATE

Charles J. Sipsey
CHIEF SIGNS AND MARKING ENGINEER

FHWA

M

S.D.D. 15 C 8-9a

PLOT NAME: PLOT SCALE: 6-28-95

REV. DATE:

ORIGINATOR:

LEVELS ON - 2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

FILE NAME:

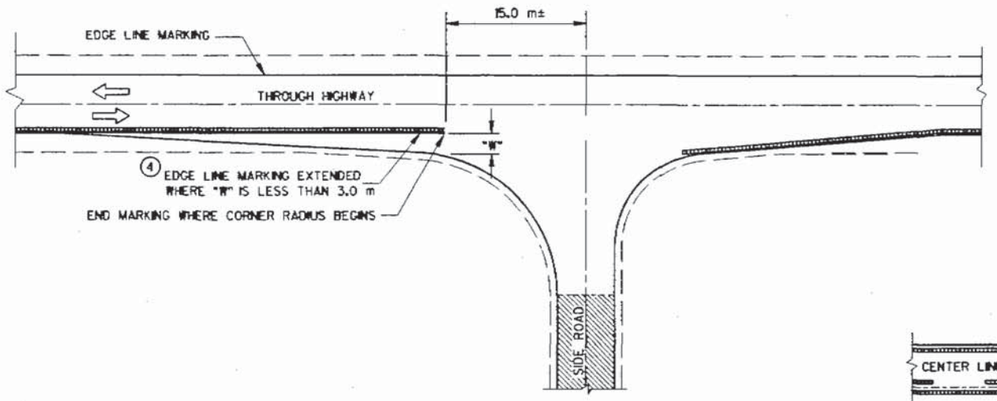
S.D.D. 15 C 8-9a

NOTES

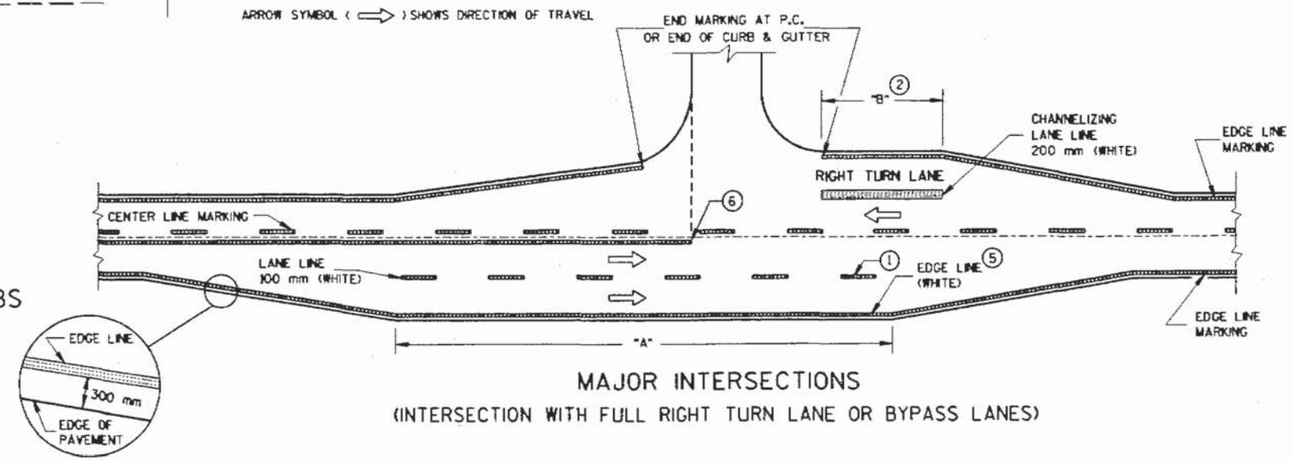
EDGE LINES SHALL BE OMITTED THROUGH INTERSECTIONS. EDGE LINES SHALL BE CONTINUED THROUGH DRIVEWAYS.

1. WHEN DISTANCE "A" IS LESS THAN 76 m, OMIT LANE LINE.
2. WHEN DISTANCE "B" IS LESS THAN 30 m, OMIT CHANNELIZING LANE LINE.
3. ALTERNATIVE MARKING SHALL BE PROVIDED WHEN SPECIFIED IN THE CONTRACT. TYPICAL SITUATIONS WHERE THIS MARKING MAY BE REQUIRED ARE WHERE THE INTERSECTION IS ON A SHARP HORIZONTAL CURVE OR CREST VERTICAL CURVE IN AN UNLIGHTED AREA SUCH THAT THE EDGE LINE MAY BE MISLEADING TO THE MOTORIST OR DISAPPEAR FROM SIGHT.
4. LOCATE THE EDGE LINE ALONG THE TAPER WHERE "W" IS 3.0 m OR MORE.
5. THE EDGE LINE IN THE TAPER AREAS OF THE BYPASS LANE AND THE BYPASS LANE SHALL BE LOCATED 300 mm FROM EDGE OF PAVEMENT TO THE OUTSIDE EDGE OF EDGE LINE.
6. BARRIER LINE ENDS AT SIDE ROAD PAVEMENT/SURFACE EDGE EXTENSION.

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL

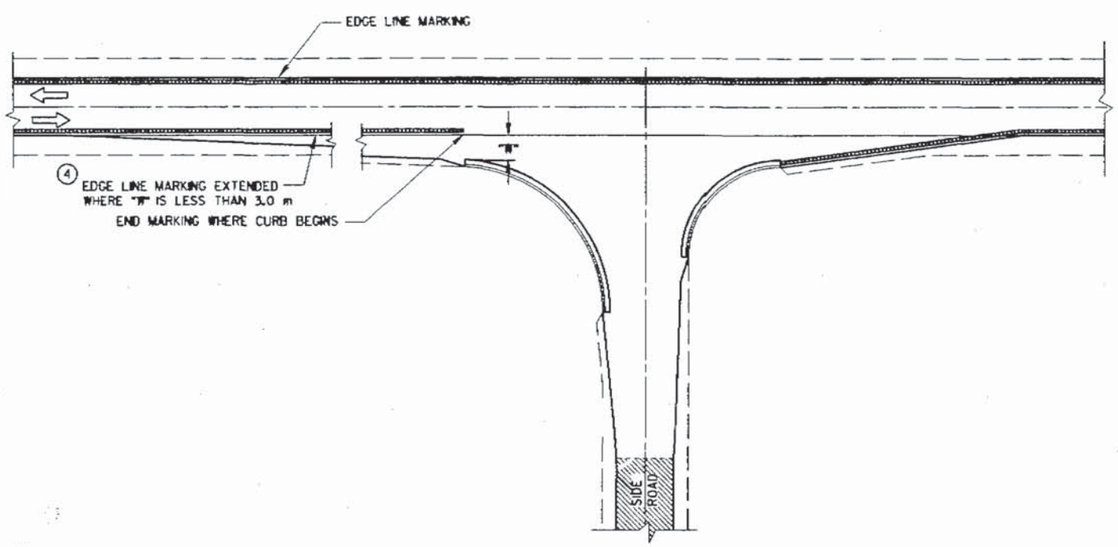


MINOR INTERSECTION WITHOUT CURBS



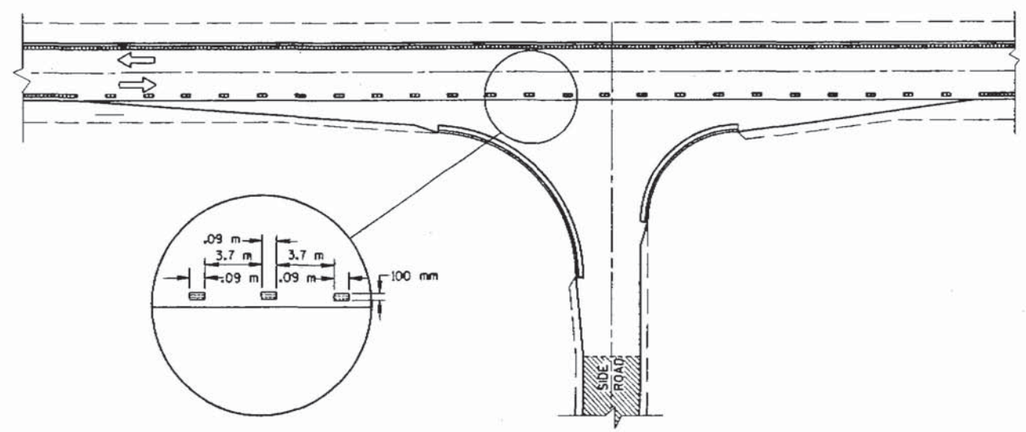
MAJOR INTERSECTIONS

(INTERSECTION WITH FULL RIGHT TURN LANE OR BYPASS LANES)



MINOR INTERSECTION WITH CURBS

(TYPICAL MARKING)



MINOR INTERSECTION WITH CURBS

3 (FOR SPECIAL CONDITIONS AS SPECIFIED)

PAVEMENT MARKING
(INTERSECTIONS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

LEVELS ON • 2,3,4,5,6,7,8, 9,10,11,12,13,14,15,16,17,18,19, 20,21,22, 23,24,25,26,27, 28,29,30,31,32,33, 34,35,36,37,38,39, 40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

S.D.D. 15 C 8-9b

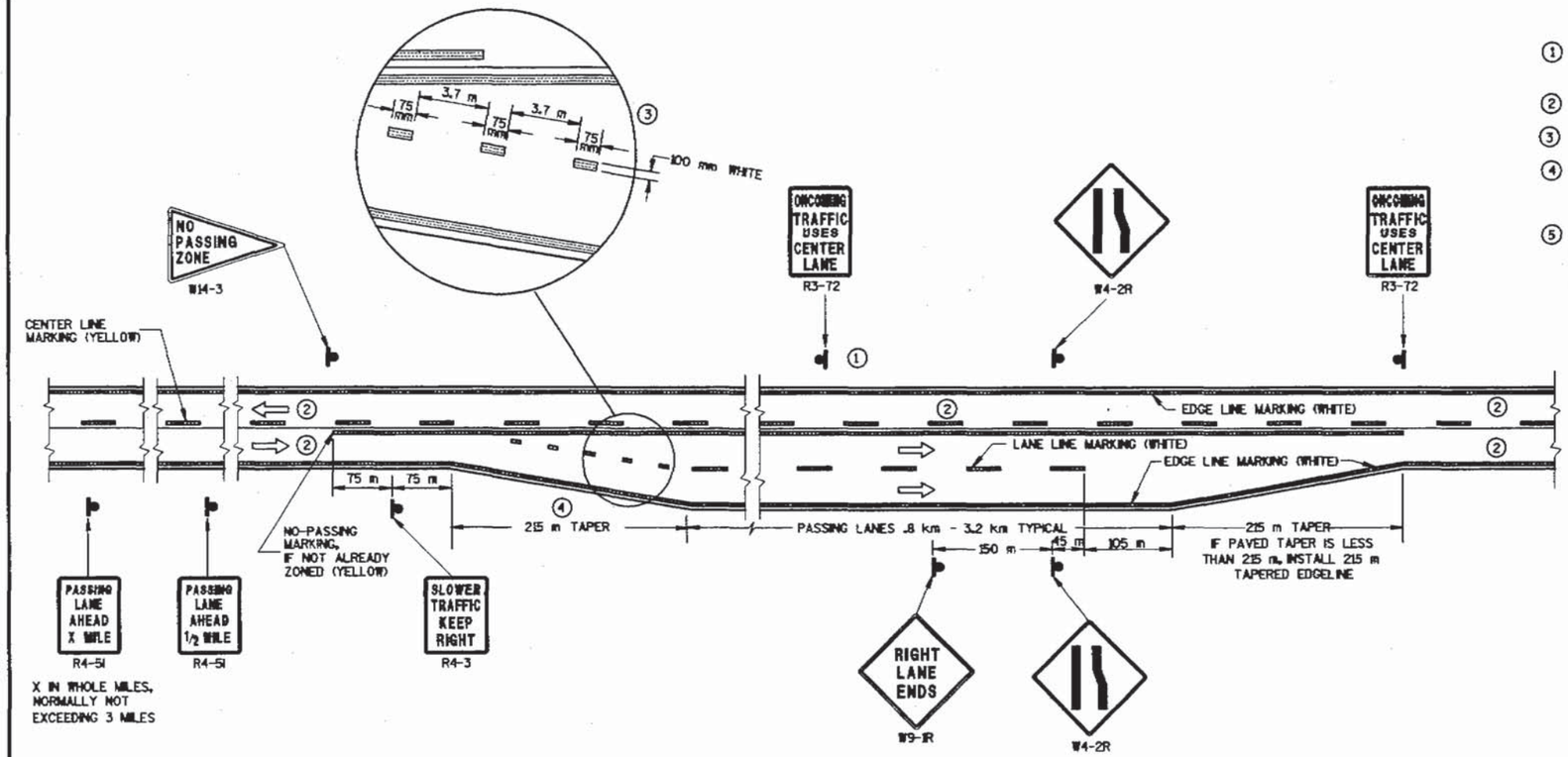
FILE NAME:

S.D.D. 15 C 8-9b

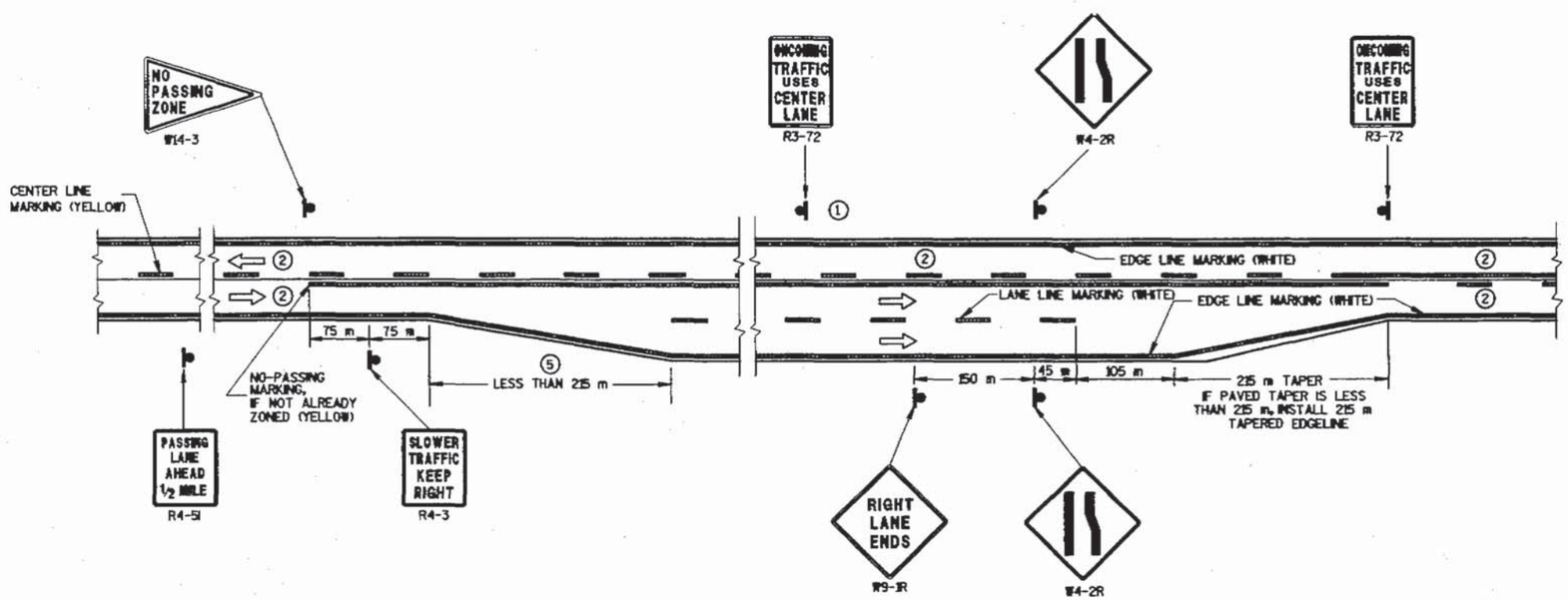
GENERAL NOTES

1. SIGN R3-72 SHALL BE REPEATED AT .8 km INCREMENTS WHERE THE ADDED LANE IS LONGER THAN .8 km. (NOT NECESSARY IF MARKED NO-PASSING)
2. THERE MAY BE SOLID YELLOW ON THE CENTERLINE DUE TO SIGHT CONDITIONS.
3. THE TAPER LENGTH OF THE PAVEMENT MARKING SHALL BE 215 m.
4. WHEN THE SHOULDER WIDTH IN THE PASSING LANE OR CLIMBING LANE IS LESS THAN THE ADJACENT HIGHWAY, DO NOT GUIDE TRAFFIC TO THE RIGHT IN THE ENTRANCE TAPER AREA WITH SKIP-DASH PAVEMENT MARKING.
5. WHEN THE ENTRANCE TAPER IS LESS THAN 215 m OR THE SHOULDER WIDTH IN THE CLIMBING LANE IS LESS THAN THE ADJACENT HIGHWAY, DO NOT GUIDE TRAFFIC TO THE RIGHT IN THE ENTRANCE TAPER AREA WITH SKIP-DASH PAVEMENT MARKING.

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL



PASSING LANE & CLIMBING LANE



CLIMBING LANE (SHORT ENTRANCE TAPER)

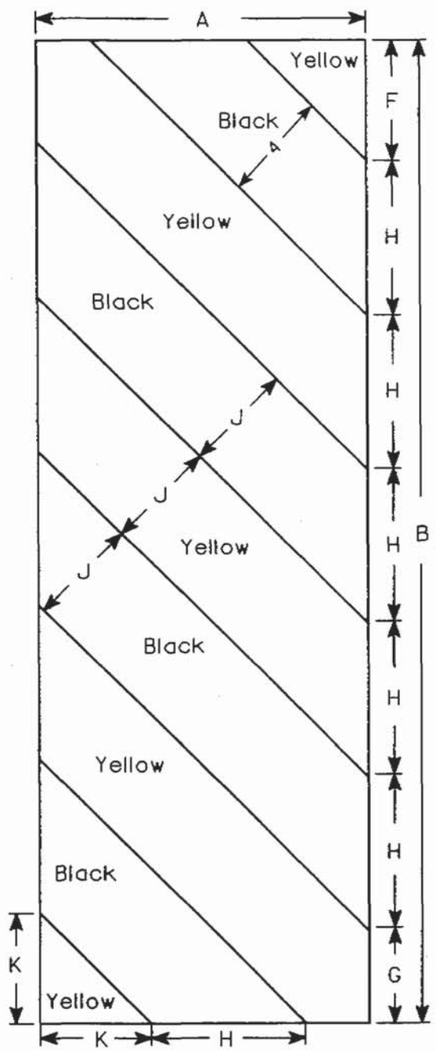
PAVEMENT MARKING (CLIMBING LANE & PASSING LANE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

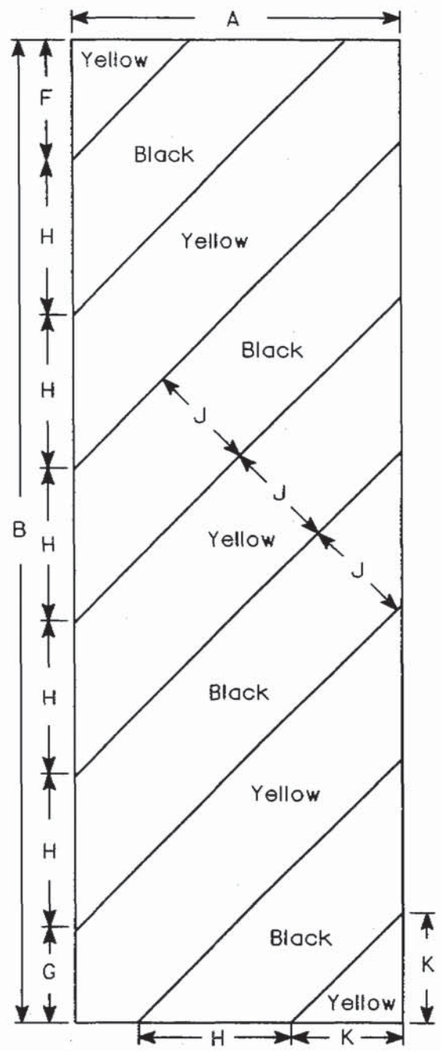
S.D.D. 15 C 8-9c

PLOT SCALE:
PLOT NAME:
REV. DATE: 1-10-00
ORIGINATOR:
S.D.D. 15 C 8-9c
FILE NAME:

STATE PROJECT NUMBER	SHEET NO.
	7.1



W5-52L



W5-52R

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. Alternate colors of stripes as shown.

Metric equivalent for this sign is:

SIZE	
1	
2	300 mm X 900 mm
3	450 mm X 1350 mm
4	
5	

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m²
1																												
2	12	36				4 3/8	3 1/2	5 5/8	45°	4	4																3.0	0.27
3	18	54				6	5 1/2	8 1/2	45°	6	6 9/16																6.75	0.61
4																												
5																												

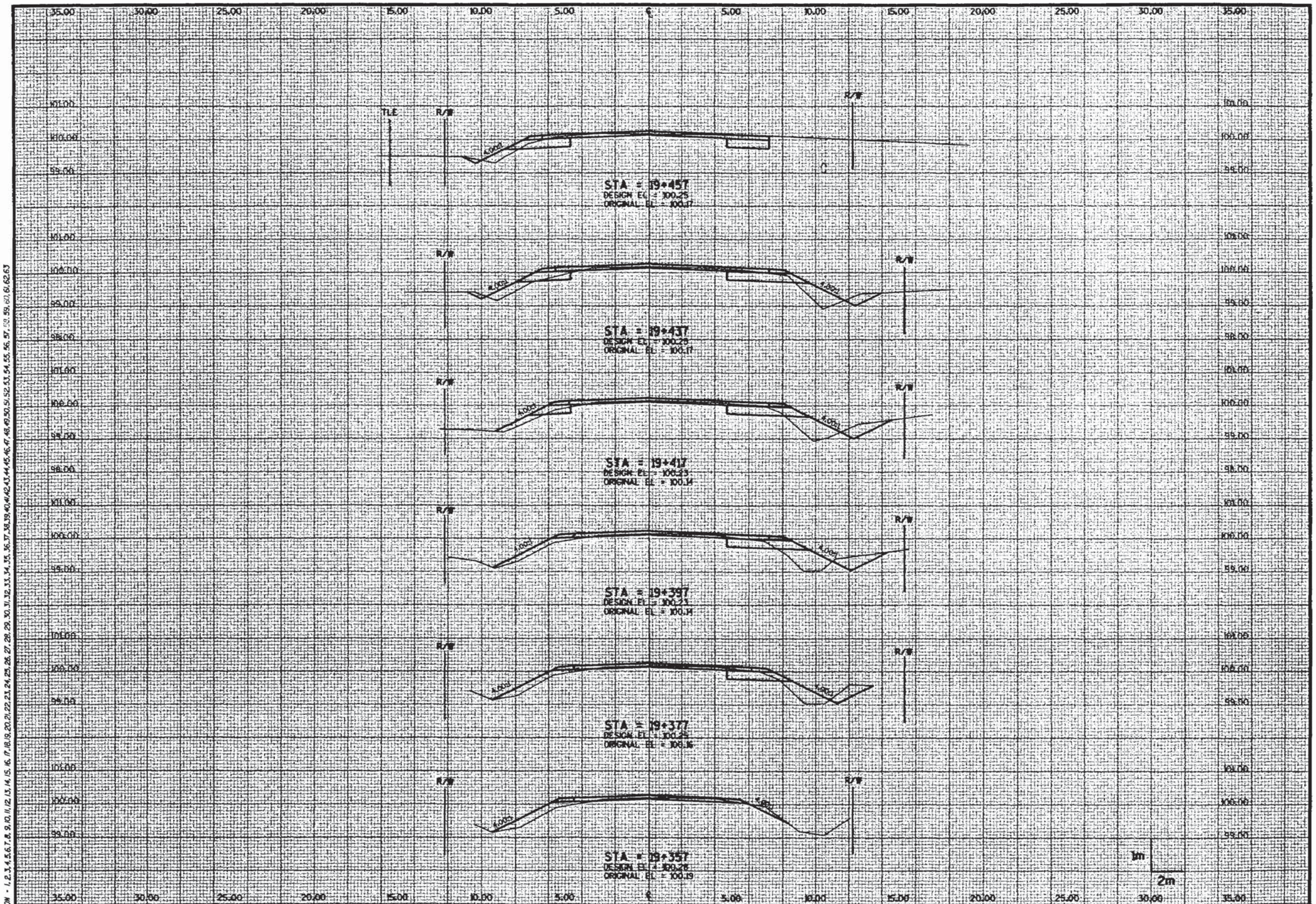
STANDARD SIGN
W5-52L & W5-52R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J. Spong for State Traffic Engineer

DATE 8/13/97 PLATE NO. W5-52.7

WISDOT/CADDS SHEET 42

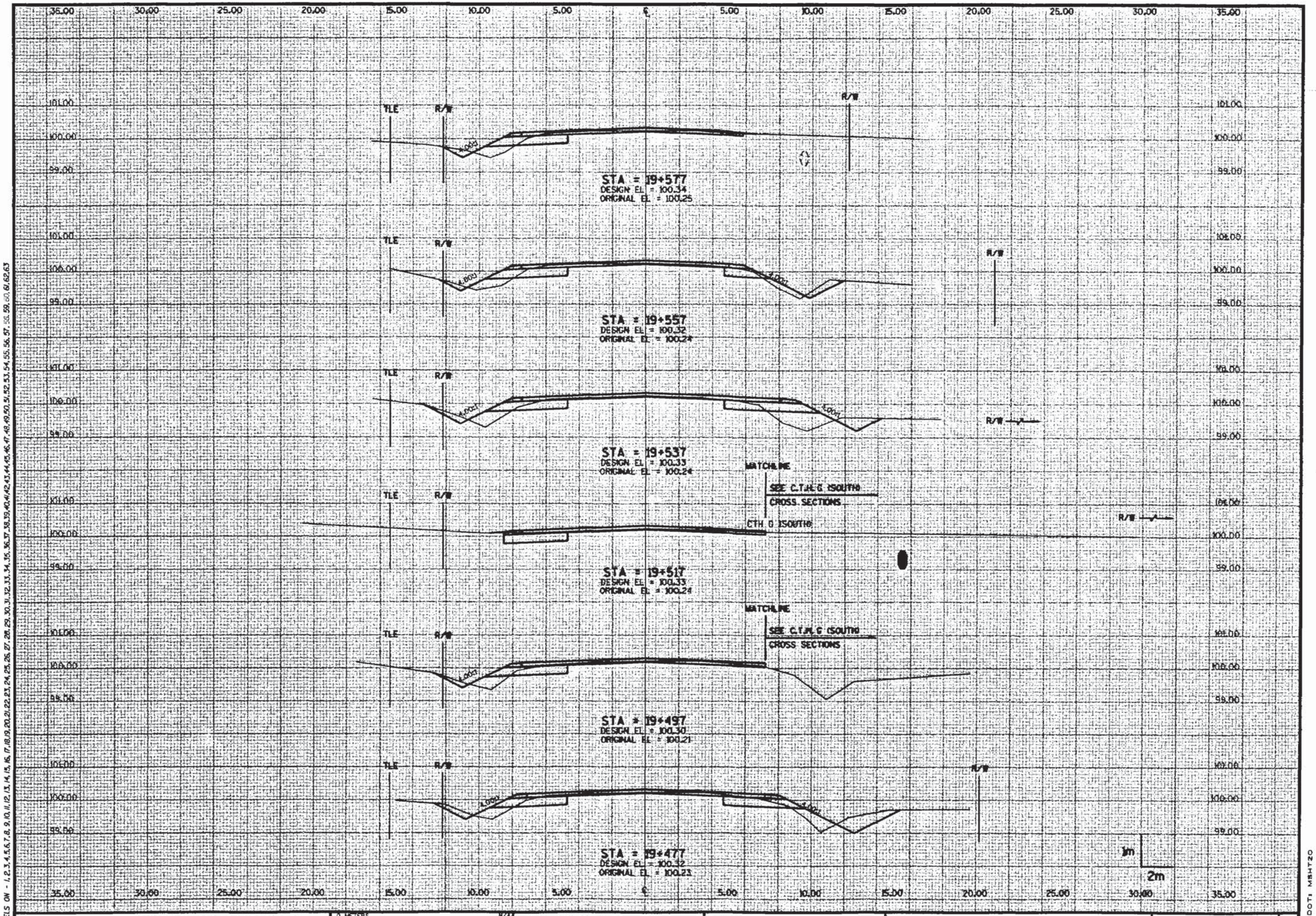


LEVELS ON - 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

STH 58 / CTH G (SOUTH) CROSS SECTIONS	0 METERS N/A	HWY: S.T.H. 58	COUNTY: JUNEAU	STATE PROJECT NO: 6639-04-71	SHEET NO: 9.1	M

FILE NAME: a:\wSol\051--190\069\495\POINT\rc001003.dgn ORIGINATOR : HJS PLOT DATE : 09/29/2000 PLOT SCALE : TIME : 10:15:59 AM STRAND ASSOCIATES INC.

WISDOT: MSHT20



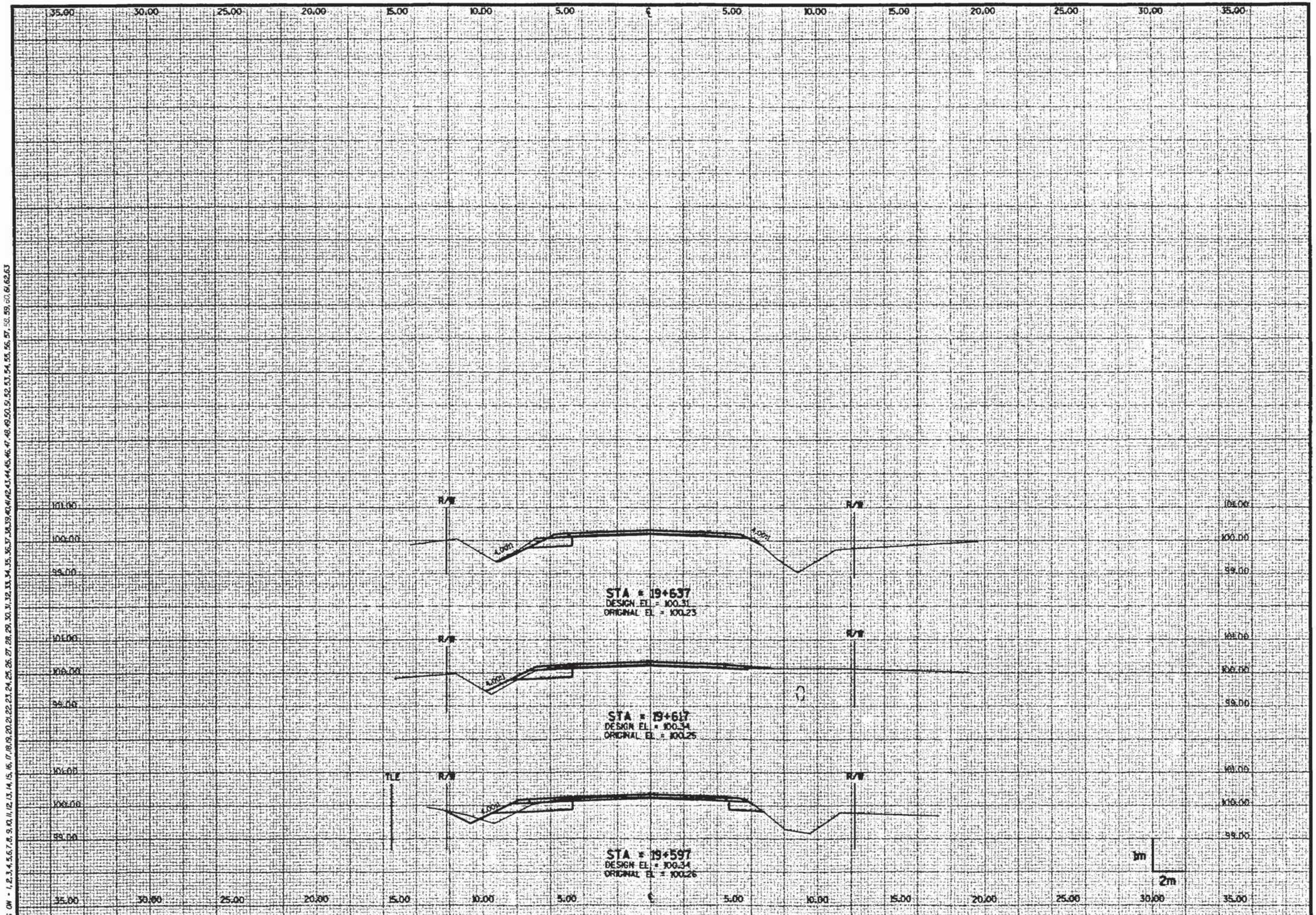
STH 58 / CTH G (SOUTH) CROSS SECTIONS | 0 METERS | HWY: S.T.H. 58 | COUNTY: JUNEAU | STATE PROJECT NO: 6639-04-71 | SHEET NO: 9.2 | M

LEVELS ON - 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

FILE NAME: #:\eSoL\051--100\069\495\POINT\r002003.dgn ORIGINATOR : HJS PLOT DATE : 22 SEP 2000 PLOT SCALE : TIME : 16:26:59

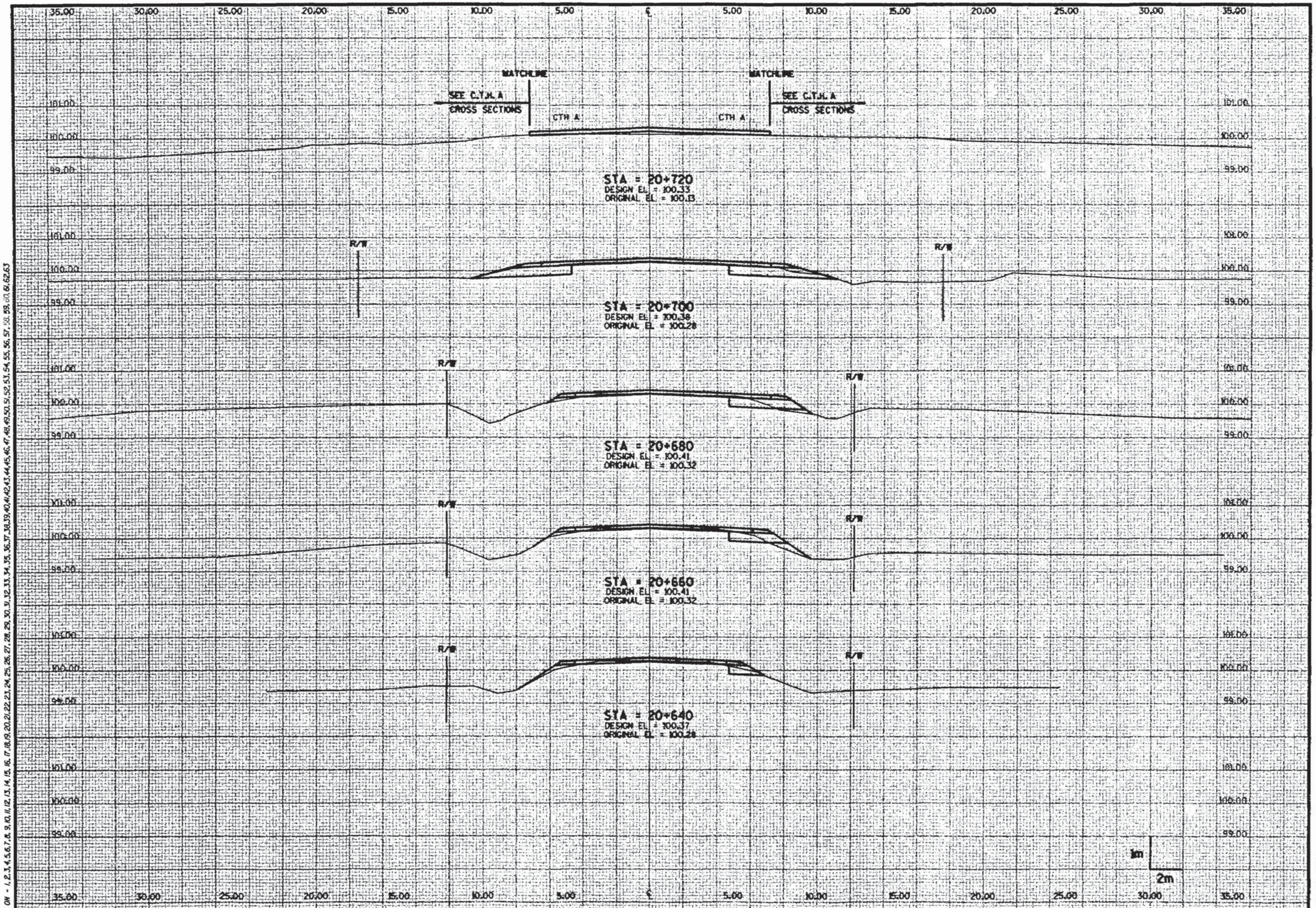
STRAND ASSOCIATES INC.

W:\DOT\ MSHT20



STH 58 / CTH G (SOUTH) CROSS SECTIONS	0 METERS N/A	HWY: S.T.H. 58	COUNTY: JUNEAU	STATE PROJECT NO: 6639-04-71	SHEET NO: 9.3	M

FILE NAME: s:\wSol\051--100\089\495\POINT\rc003003.dgn ORIGINATOR : RJS PLOT DATE : 22 SEP 2000 PLOT SCALE : TIME : 16:27:26 STRAND ASSOCIATES INC.

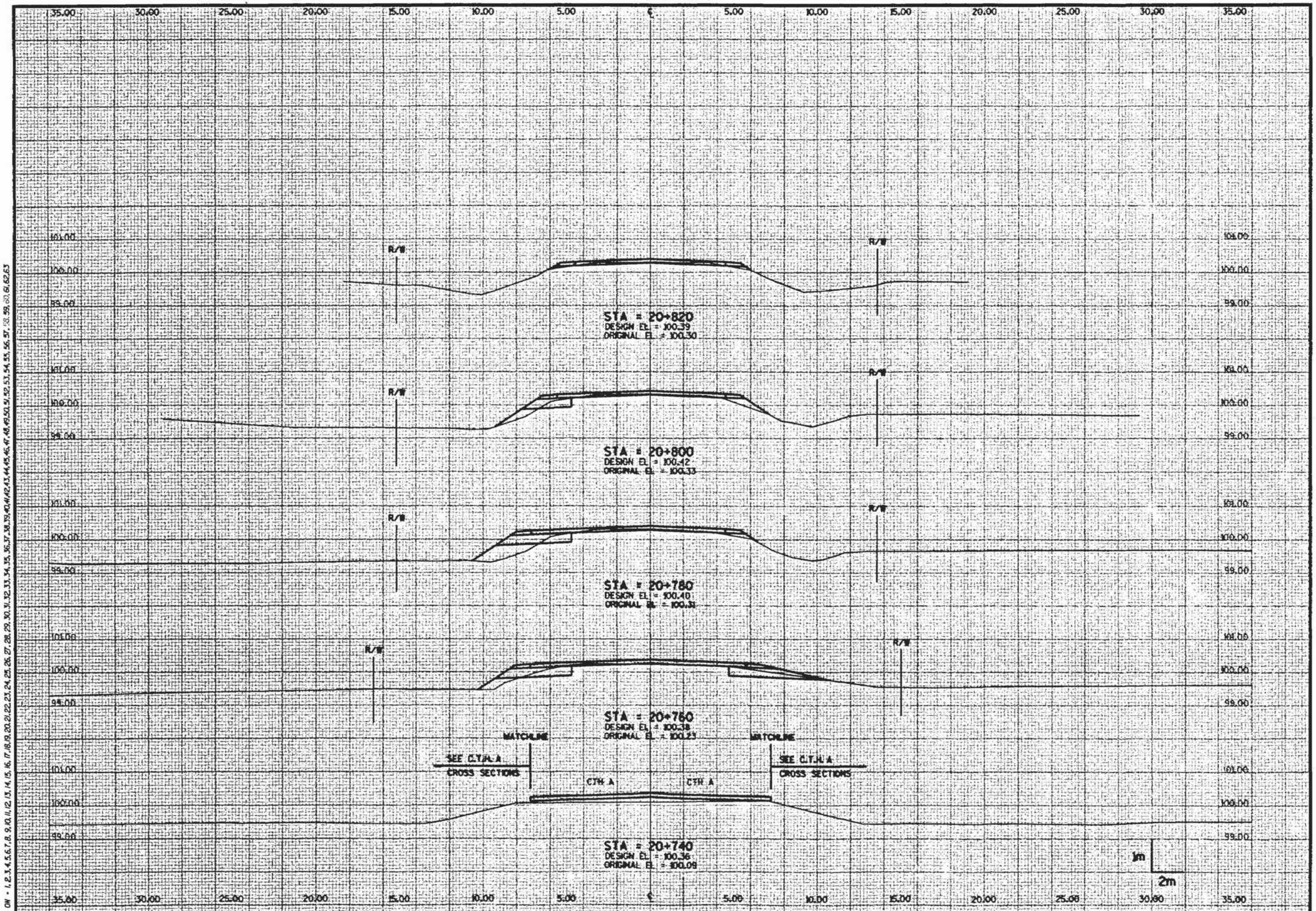


LEVELS ON - 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

STH 58 / CTH A CROSS SECTIONS	0 METERS N/A	HWY: S.T.H. 58	COUNTY: JUNEAU	STATE PROJECT NO: 6639-04-71	SHEET NO: 9.4	M

FILE NAME: a:\wSol\051--100\089\495\POINT\rc001004.dgn ORIGINATOR : HJS PLOT DATE : 22 SEP 2000 PLOT SCALE : TIME : 16:28:05 STRAND ASSOCIATES INC.

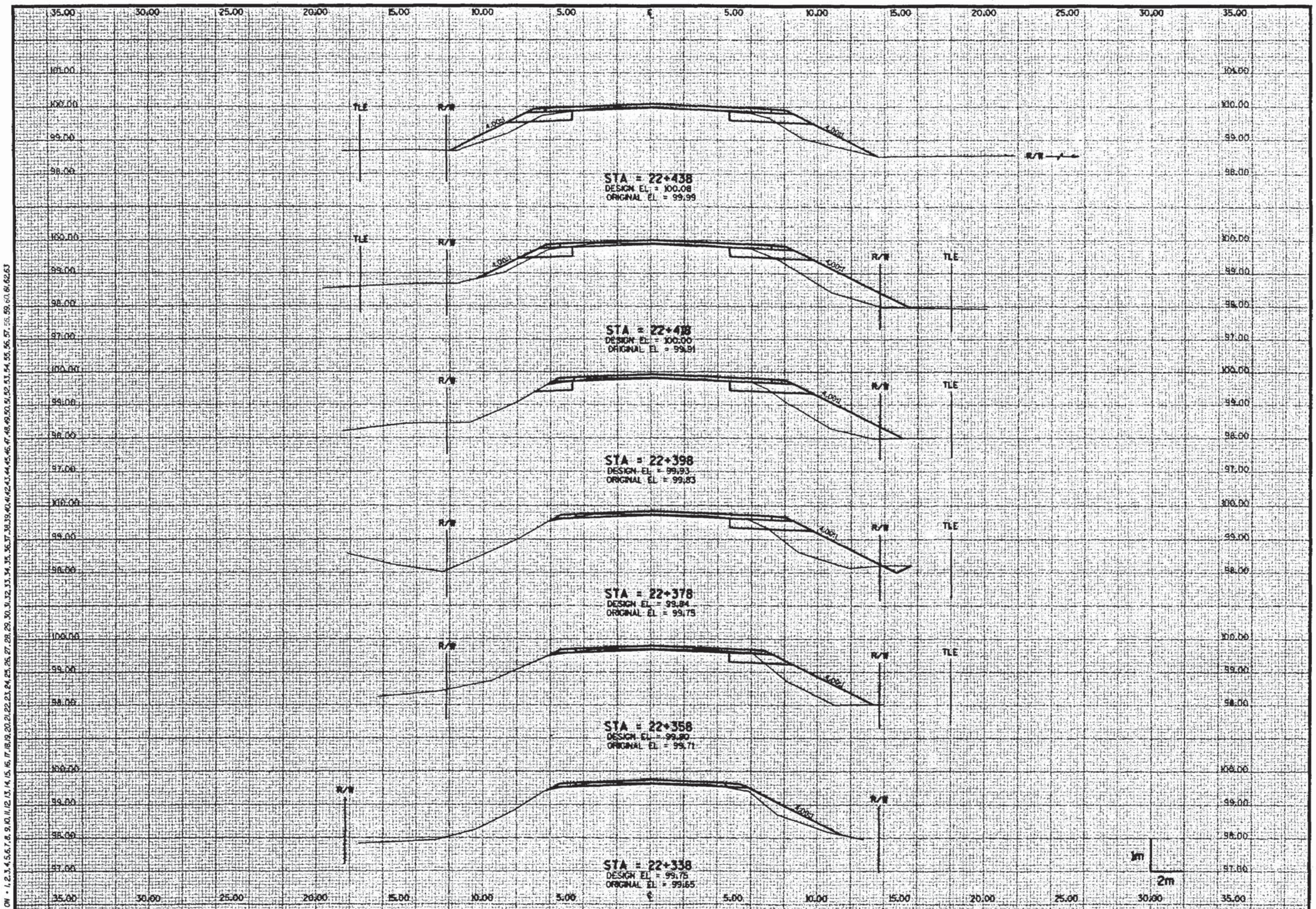
W=DOT: MSHT20



STH 58 / CTH A CROSS SECTIONS	0 METERS R/A	HWY: S.T.H. 58	COUNTY: JUNEAU	STATE PROJECT NO: 6639-04-71	SHEET NO: 9.5	M

FILE NAME: a:\wSol\051--100\089\495\POINT\rc002004.dgn ORIGINATOR : HJS PLOT DATE : 22 SEP 2000 PLOT SCALE : TIME : 16:28:37 STRAND ASSOCIATES INC.

WDOT: MSHTZO

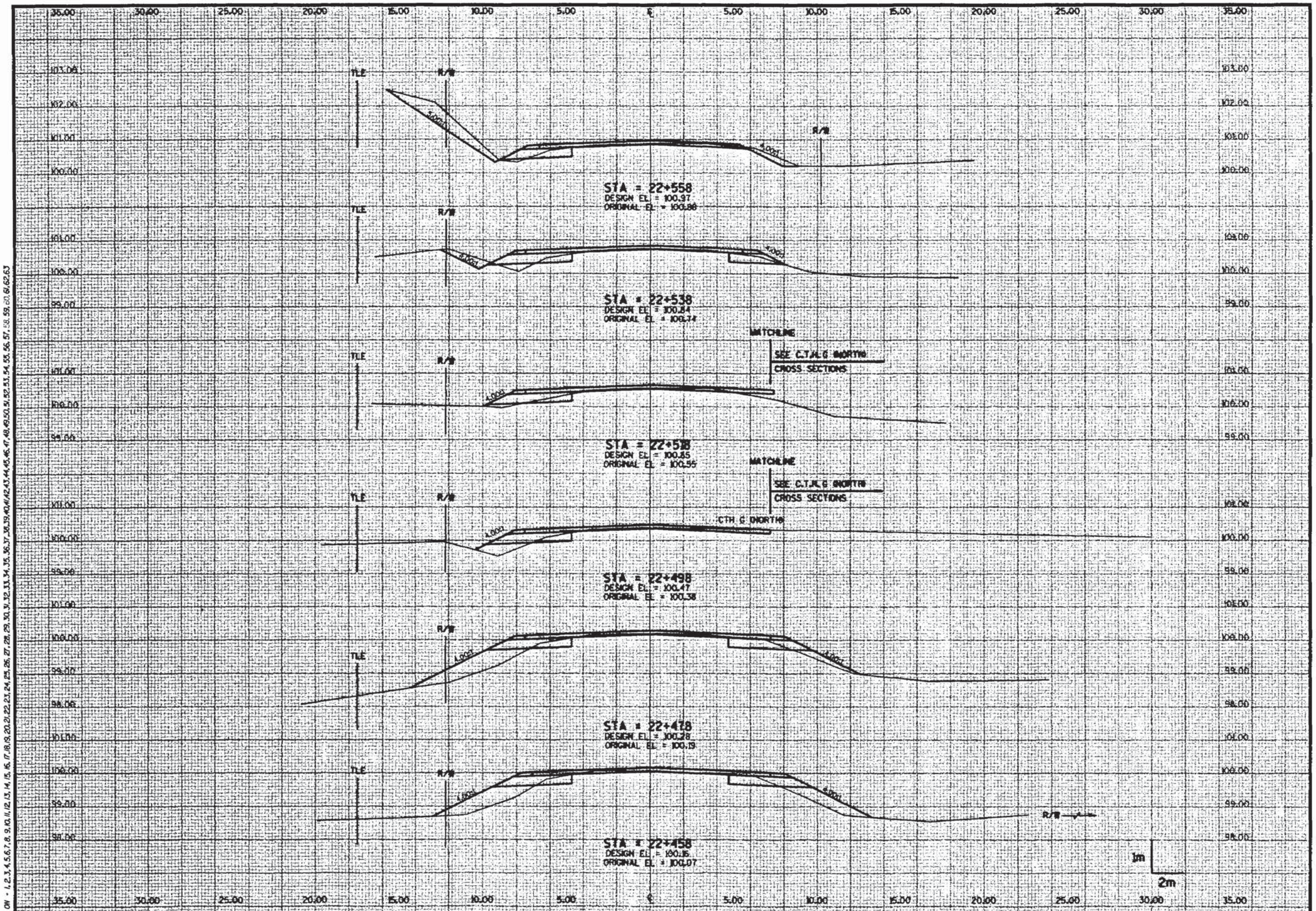


LEVELS ON • 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

STH 58 / CTH G (NORTH) CROSS SECTIONS	0 METERS N/A	HWY: S.T.H. 58	COUNTY: JUNEAU	STATE PROJECT NO: 6639-04-71	SHEET NO: 9.6	M

FILE NAME: s:\wscl\051--100\089\495\POINT\r-c001002.dgn ORIGINATOR : HJS PLOT DATE : 22 SEP 2000 PLOT SCALE : TIME : 16:29:13 STRAND ASSOCIATES INC.

WisDOT: MSHT20



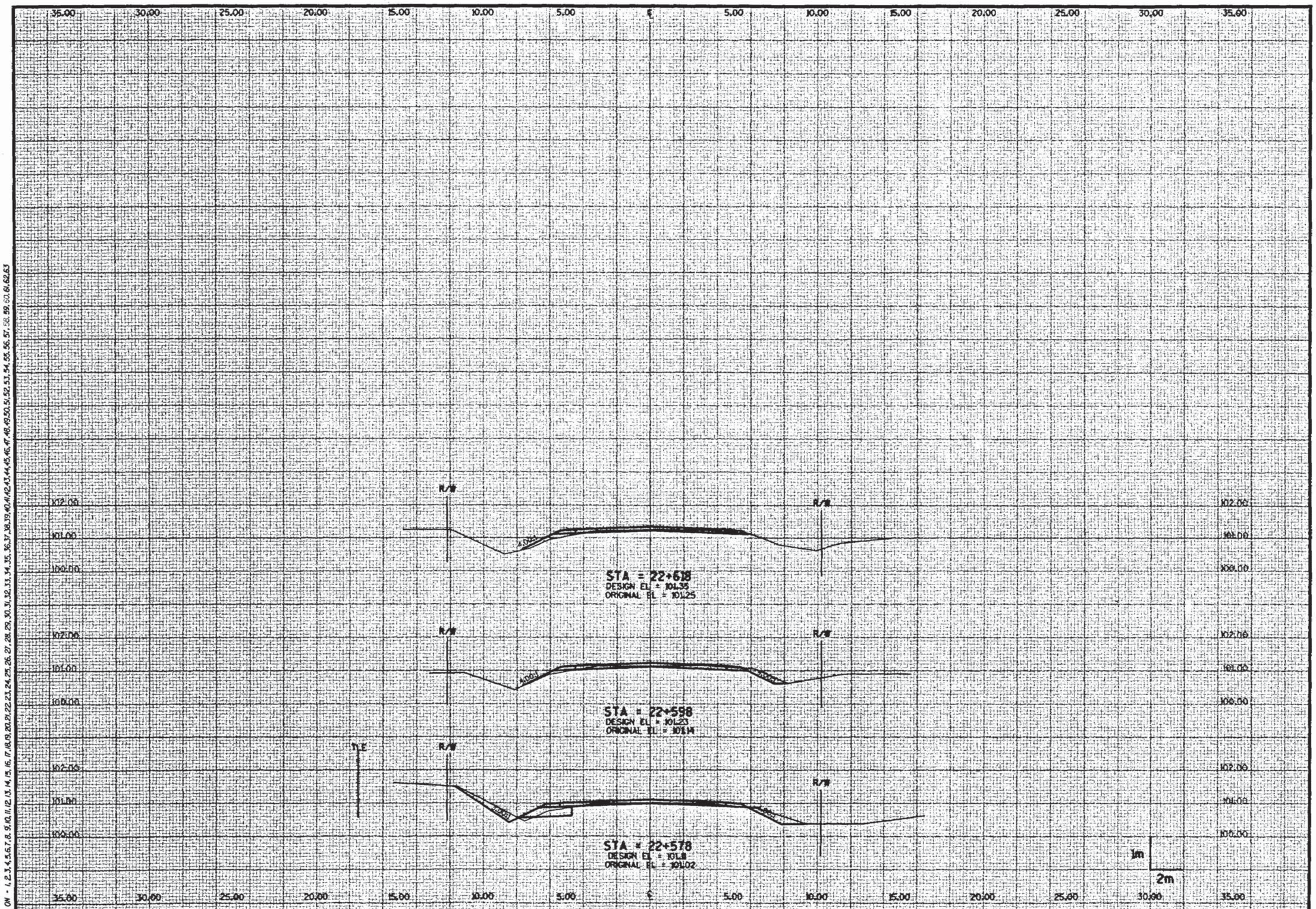
STH 58 / CTH G (NORTH) CROSS SECTIONS | HWY: S.T.H. 59 | COUNTY: JUNEAU | STATE PROJECT NO: 6639-04-71 | SHEET NO: 9.7 | M

FILE NAME: s:\WSdl\051--100\089\495\POINT\r-0002002.dgn ORIGINATOR : HJS PLOT DATE : 22 SEP 2000 PLOT SCALE : TIME : 16:29:39

STRAND ASSOCIATES INC.

LEVELS ON - 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

WISDOT 1 WSHTO



LEVELS ON - 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

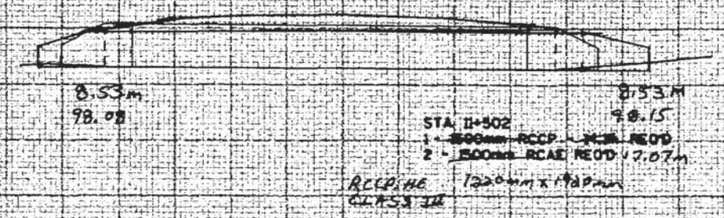
STH 58 / CTH G (NORTH) CROSS SECTIONS	0 METERS N/A	HWY: S.T.H. 58	COUNTY: JUNEAU	STATE PROJECT NO: 6639-04-71	SHEET NO: 9.8	M

FILE NAME: s:\WSoi\051--100\089\495\POINT\rc003002.dgn ORIGINATOR : KJS PLOT DATE : 22 SEP 2000 PLOT SCALE : TIME : 16:30:01 STRAND ASSOCIATES INC.

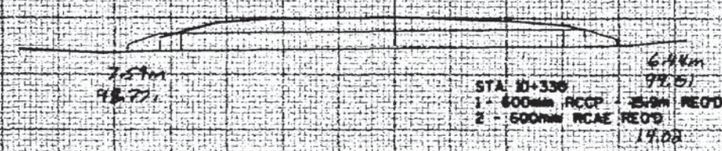
WISDOT1 MSHT20

11+763 11+763

11+502 11+502

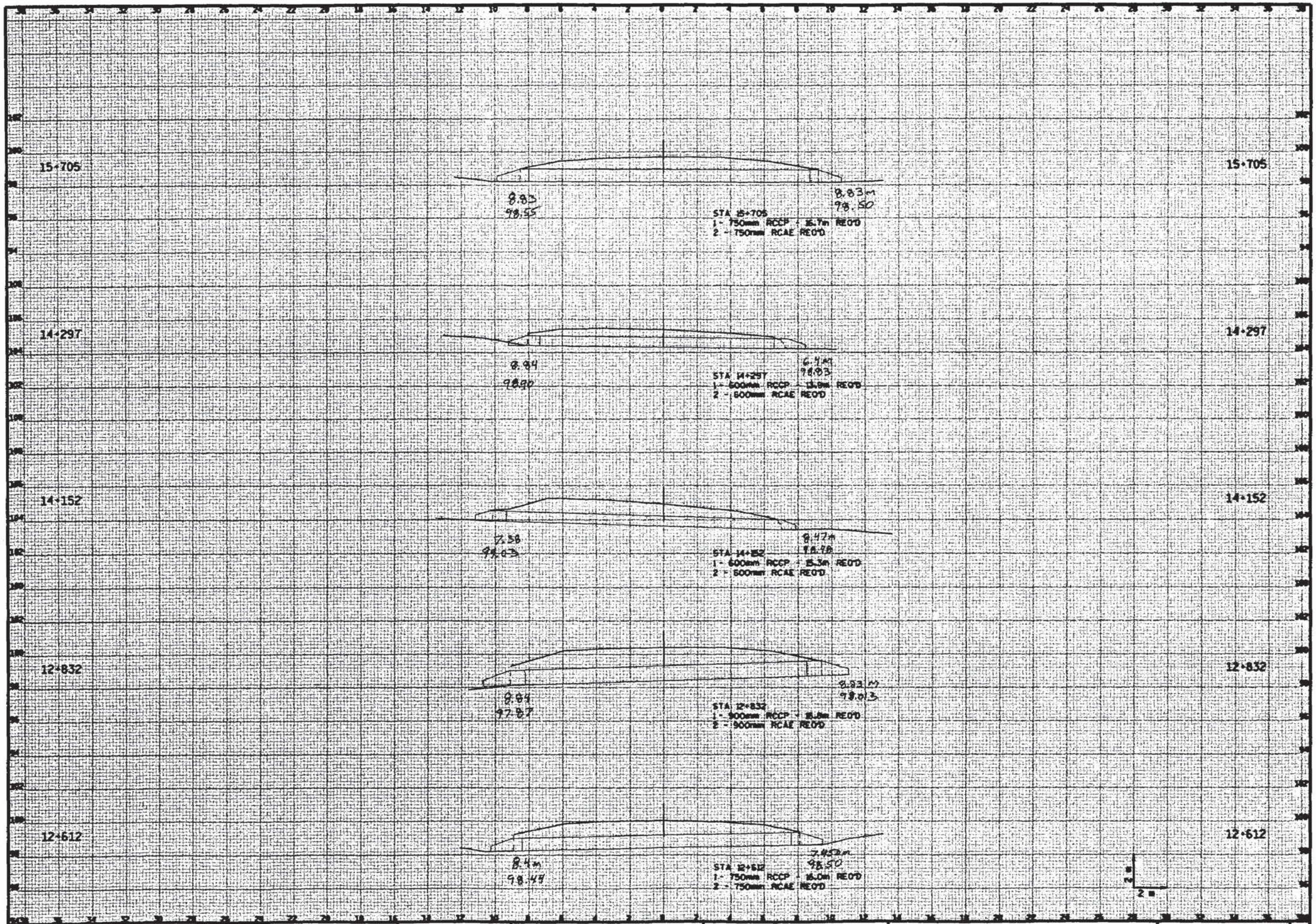


10+330 10+330



10+149 10+149

PIPE CROSS SECTIONS		HWY: S.T.H. 58	COUNTY: JUNEAU	STATE PROJECT NO: 6639-04-71	SHEET NO: 9.9



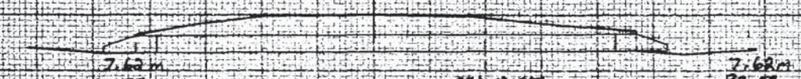
PIPE CROSS SECTIONS		HWY: S.T.H. 58	COUNTY: JUNEAU	STATE PROJECT NO: 6639-04-71	SHEET NO: 9.10

17+985

STA 17+985
2 - 1220 x 1920mm RCPA - 35.4m REQ'D
4 - 1220 x 1920mm RCAE REQ'D

17+985

16+925



STA 16+925
1 - 600mm RCCP - 16.4m REQ'D
2 - 600mm RCAE REQ'D

16+925

16+603

STA 16+603
1 - 600mm RCCP - 17.1m REQ'D
2 - 600mm RCAE REQ'D

16+603

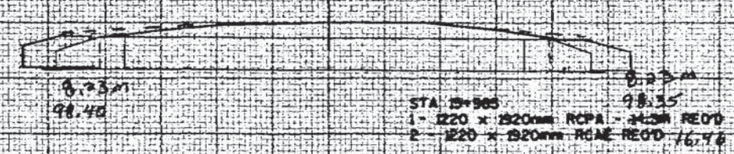
16+394

STA 16+394
1 - 600mm RCCP - 17.2m REQ'D
2 - 600mm RCAE REQ'D

NOTE: CLEAR ZONE IS AT 9.14m FROM CENTERLINE!

16+394

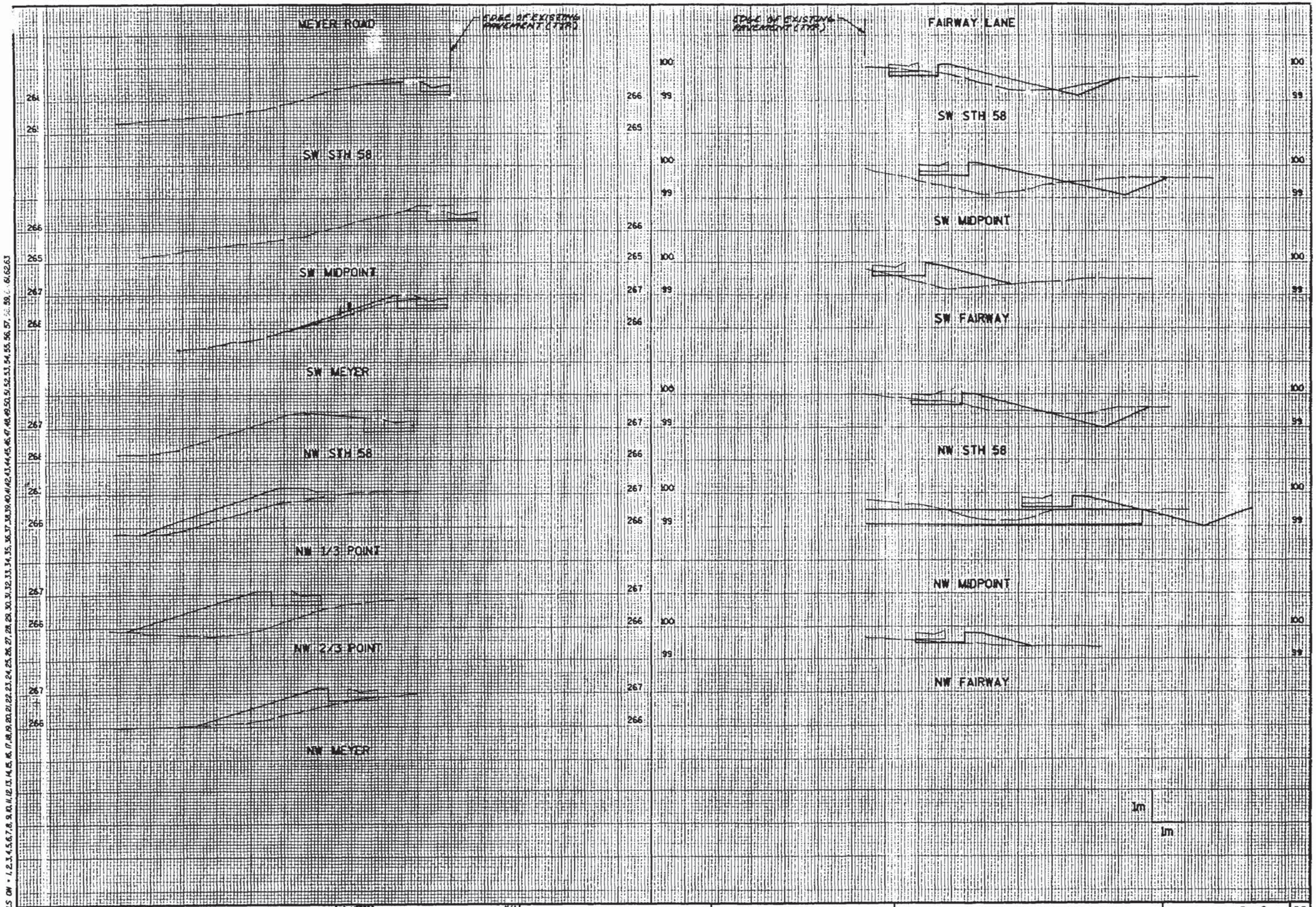
15+985



STA 15+985
1 - 1220 x 1920mm RCPA - 24.3m REQ'D
2 - 1220 x 1920mm RCAE REQ'D 16.46

15+985

PIPE CROSS SECTIONS		HWY: S.T.H. 58	COUNTY: JUNEAU	STATE PROJECT NO: 6639-04-71	SHEET NO: 9.11

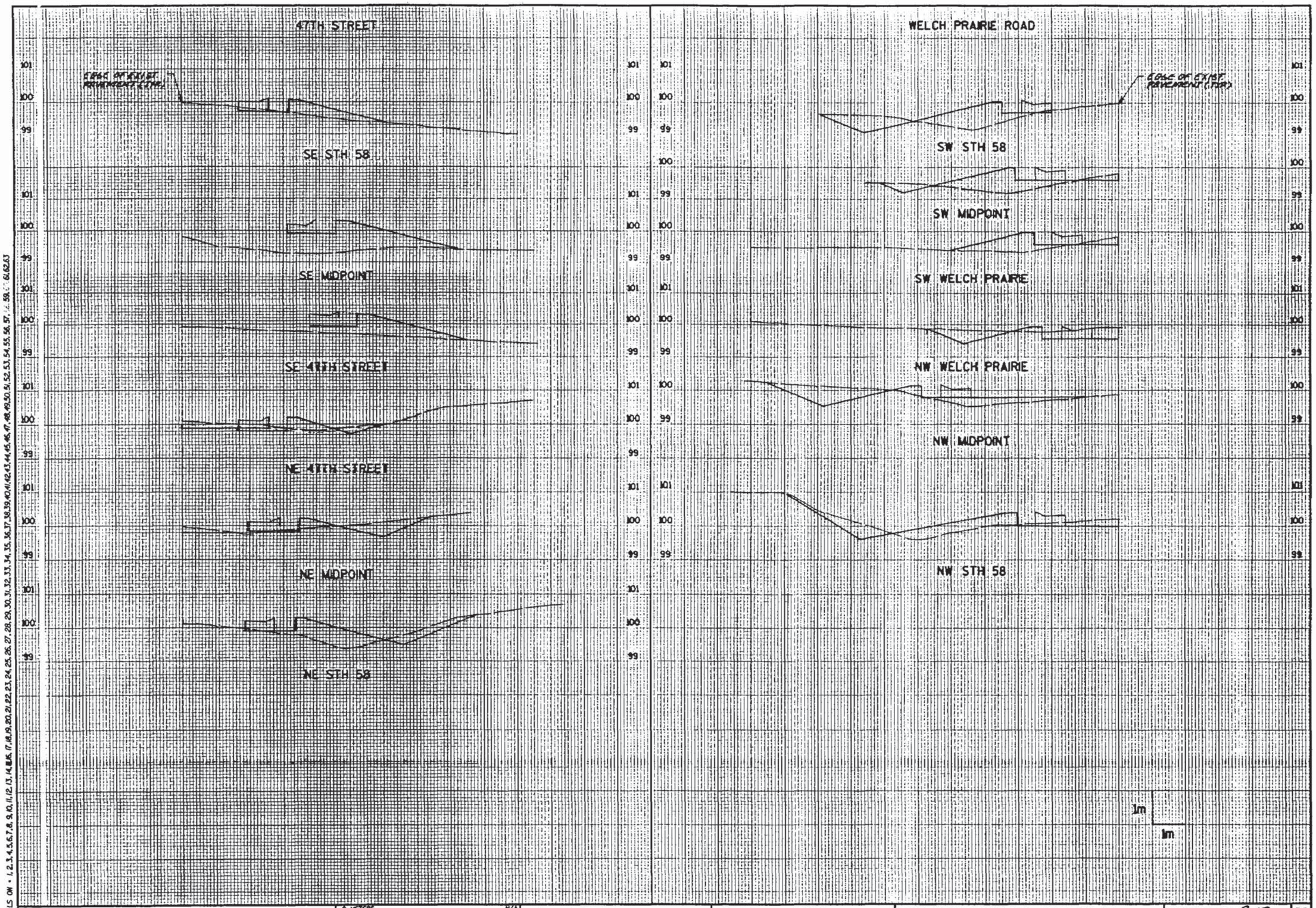


MEYER ROAD/FAIRWAY LANE | 0 METERS N/A | HWY: S.T.H. 58 | COUNTY: JUNEAU | STATE PROJECT NO: 6639-04-71 | SHEET NO: 9.12 | M

LEVELS ON: 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

FILE NAME: @FILE@ ORIGINATOR : MJS PLOT DATE : @DATE@ PLOT SCALE : TIME : @TIME@ STRAND ASSOCIATES INC.

WISDOT: MSHT20

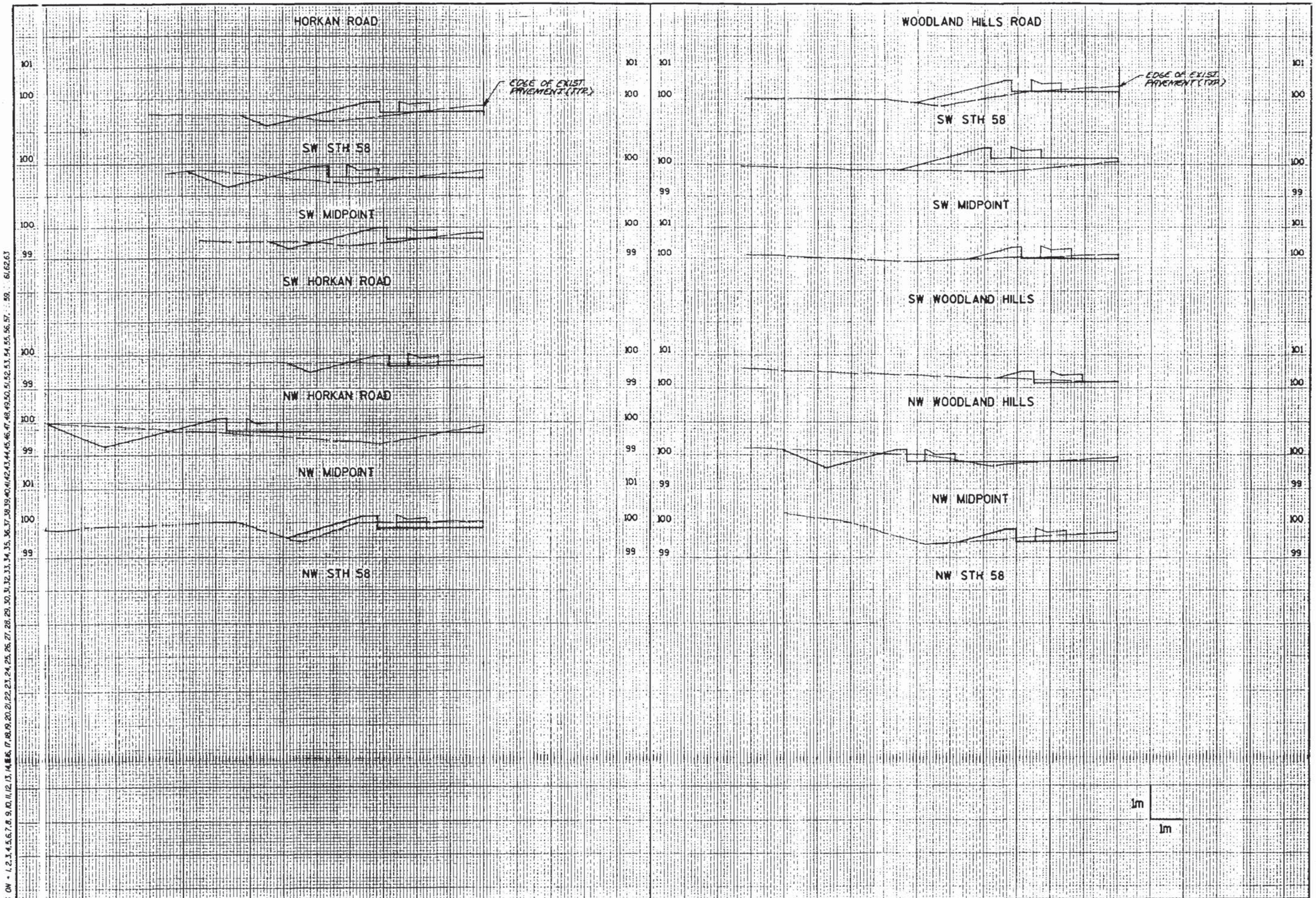


LEVELS ON - 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

47TH STREET/PRAIRIE ROAD	0 METERS N/A	HWY: S.T.H. 58	COUNTY: JUNEAU	STATE PROJECT NO: 6639-04-71	SHEET NO: 9.13	M

FILE NAME: @FILE@ ORIGINATOR : HJS PLOT DATE : @DATE@ PLOT SCALE : TIME : @TIME@ STRAND ASSOCIATES INC.

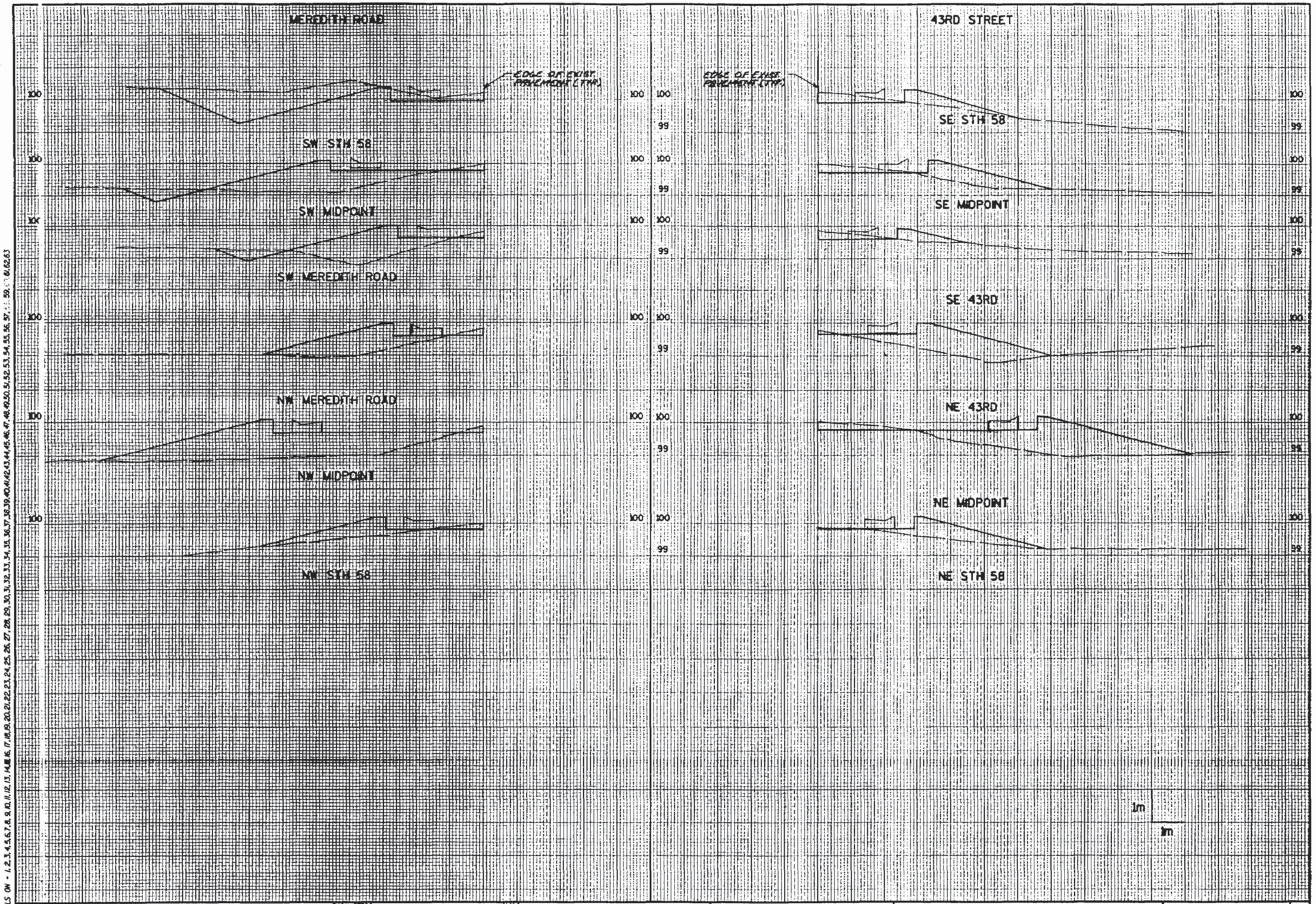
WI@DOT1 MSHT20



LEVELS ON - 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

HORKAN ROAD/WOODLAND HILLS ROAD	0 METERS N/A	HWY: S.T.H. 58	COUNTY: JUNEAU	STATE PROJECT NO: 6639-04-71	SHEET NO: 9.14 M

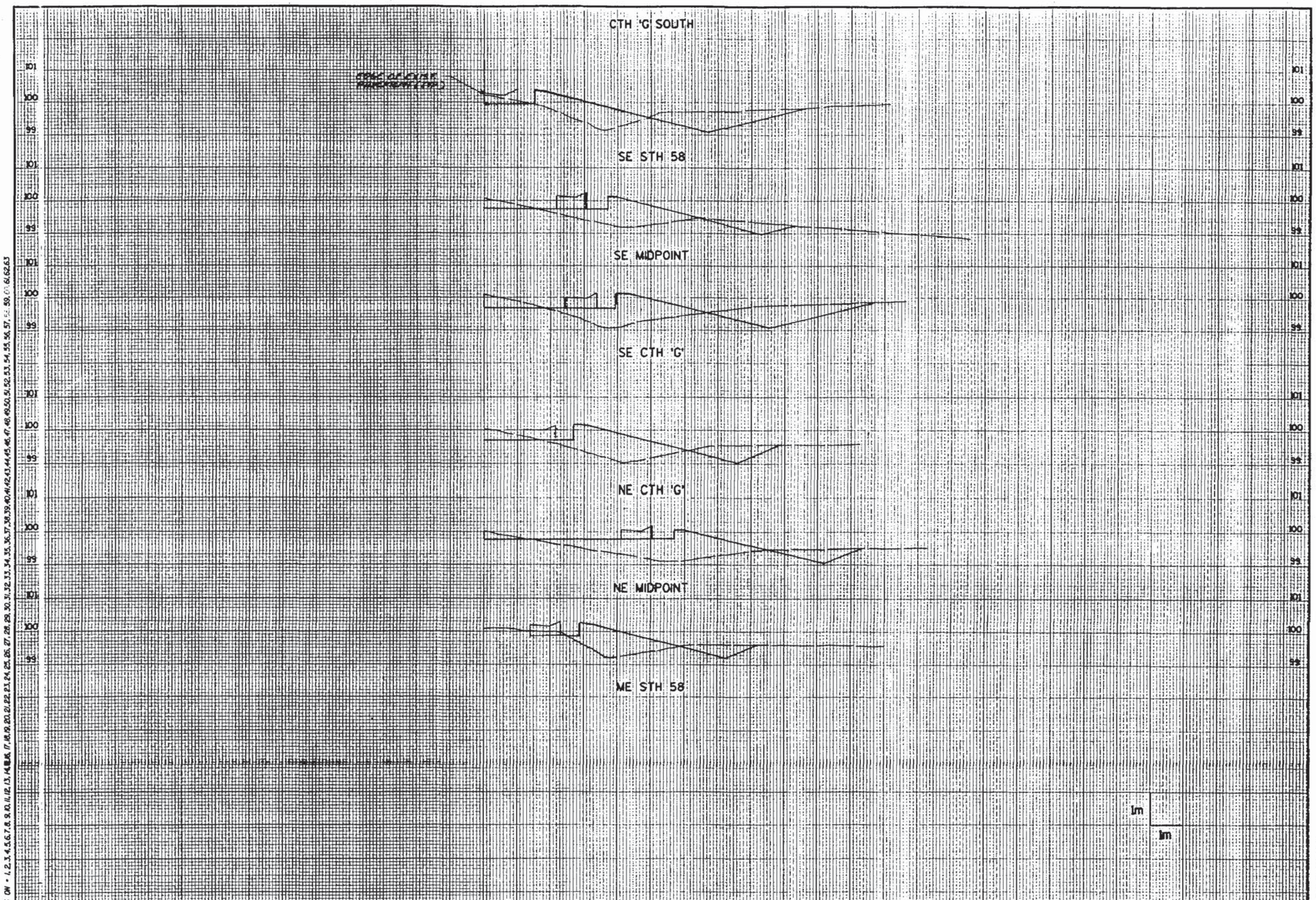
FILE NAME: @FILE@ ORIGINATOR : HJS PLOT DATE : @DATE@ PLOT SCALE : TIME : @TIME@ STRAND ASSOCIATES INC.



LEVELS ON - 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

MEREDITH ROAD/43RD STREET	0 METERS N/A	HWY: S.T.H. 58	COUNTY: JUNEAU	STATE PROJECT NO: 6639-04-71	SHEET NO: 9.15	M

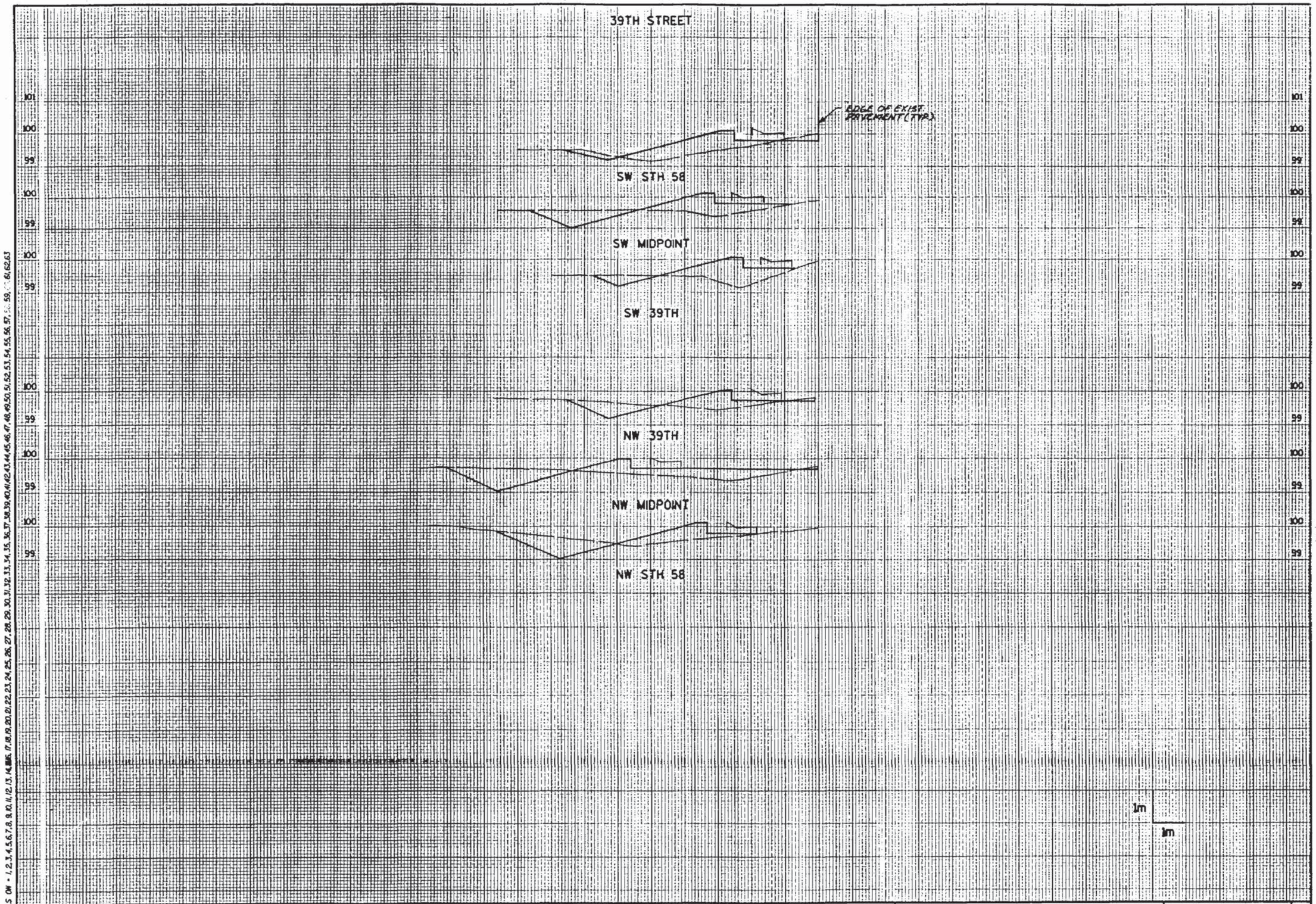
FILE NAME: @FILE@ ORIGINATOR : KJS PLOT DATE : @DATE@ PLOT SCALE : TIME : @TIME@ STRAND ASSOCIATES INC.



CTH 'G' SOUTH	0 METERS N/A	HWY: S.T.H. 58	COUNTY: JUNEAU	STATE PROJECT NO: 6639-04-71	SHEET NO: 9.16	M

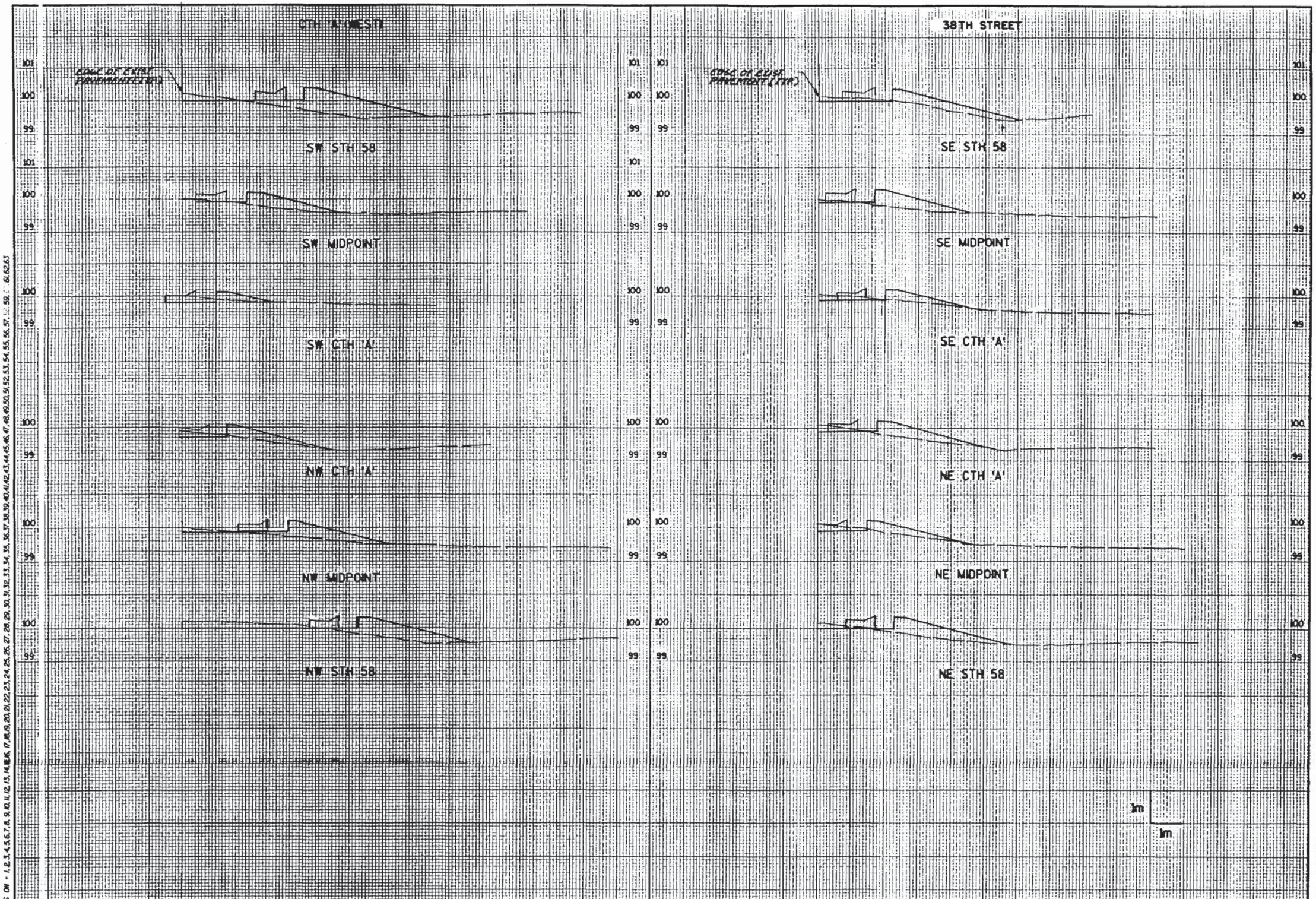
FILE NAME: @FILE@ ORIGINATOR : HJS PLOT DATE : @DATE@ PLOT SCALE : TIME : @TIME@ STRAND ASSOCIATES INC.

LEVELS ON - 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63



39TH STREET | 0 METERS N/A | HWY: S.T.H. 58 | COUNTY: JUNEAU | STATE PROJECT NO: 6639-04-71 | SHEET NO: 9.17 | M

FILE NAME: @FILE@ ORIGINATOR : HJS PLOT DATE : @DATE@ PLOT SCALE : TIME : @TIME@ STRAND ASSOCIATES INC.



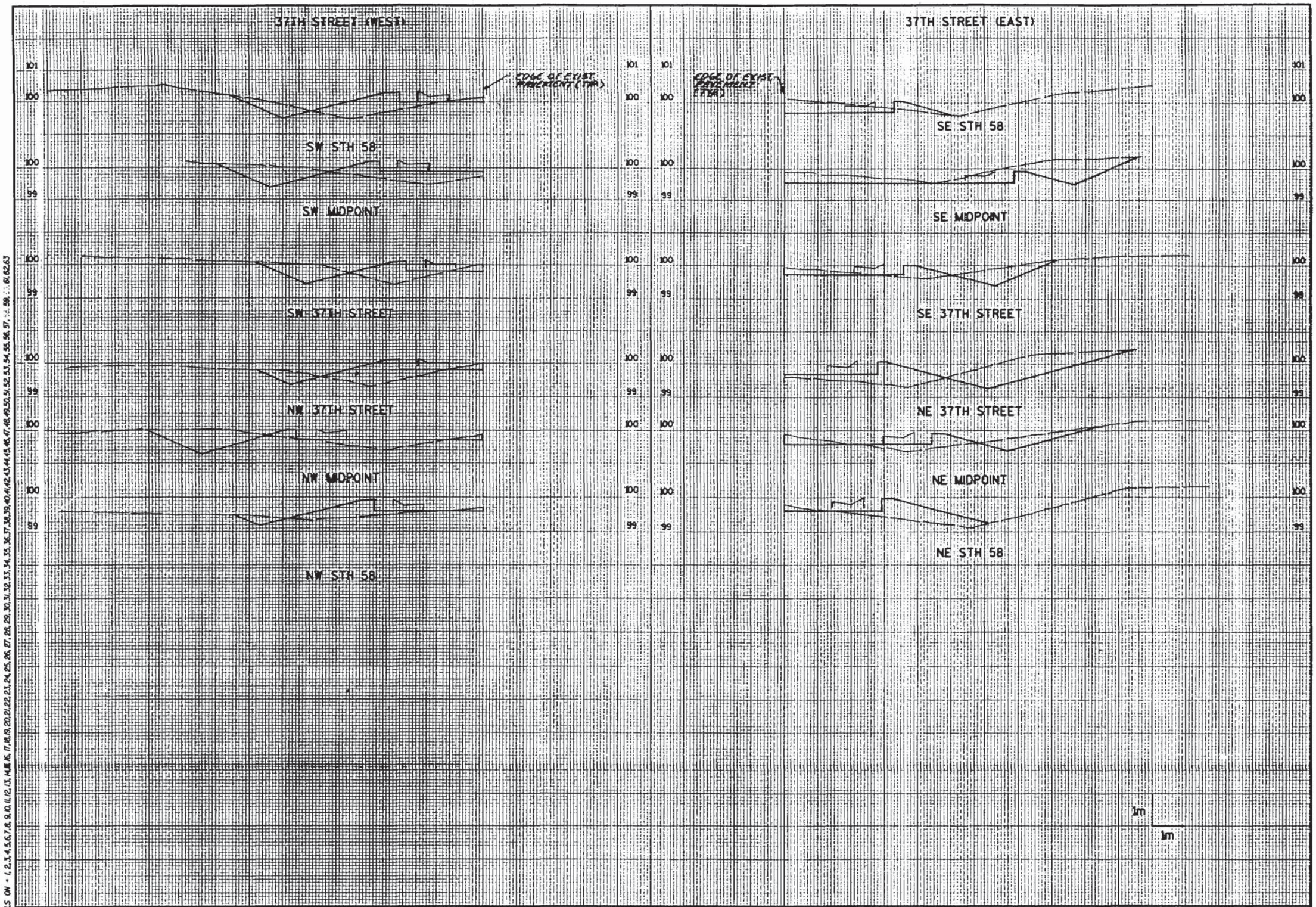
CTH 'A'(WEST)/CTH 'A'(EAST) | 0 METERS N/A | HWY: S.T.H. 58 | COUNTY: JUNEAU | STATE PROJECT NO: 6639-04-71 | SHEET NO: 9.18 | M

FILE NAME: @FILE@ ORIGINATOR : HJS PLOT DATE : @DATE@ PLOT SCALE : TIME : @TIME@

STRAND ASSOCIATES INC.

LEVELS ON - 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

WISDOT: MSHT20

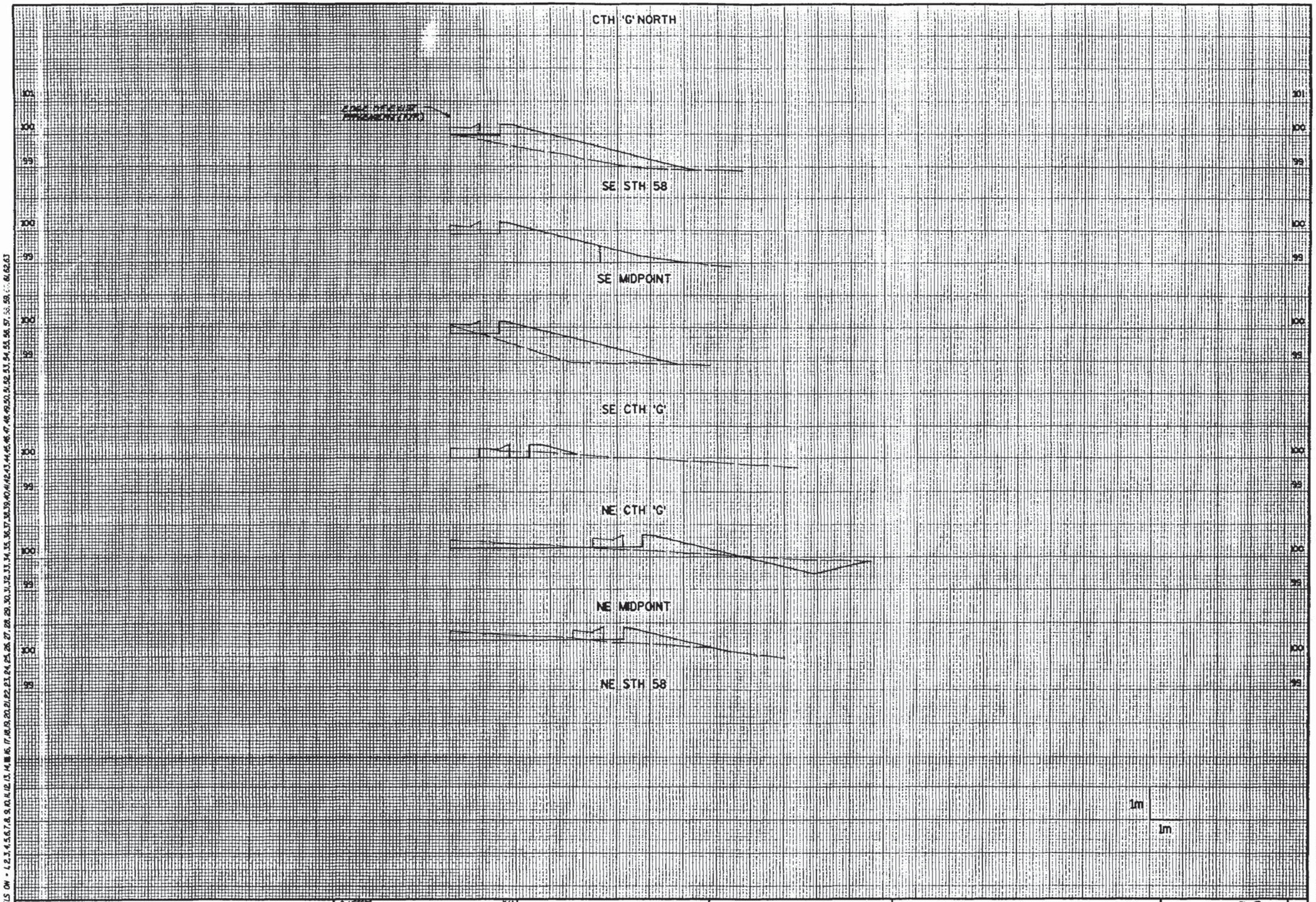


37TH STREET (WEST)/37TH STREET (EAST)	0 METERS N/A	HWY: S.T.H. 58	COUNTY: JUNEAU	STATE PROJECT NO: 6639-04-71	SHEET NO: 9.19	M

FILE NAME: #FILE# ORIGINATOR : HJS PLOT DATE : #DATE# PLOT SCALE : TIME : #TIME# STRAND ASSOCIATES INC.

LEVELS ON - 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

WisDOT: MSTPO

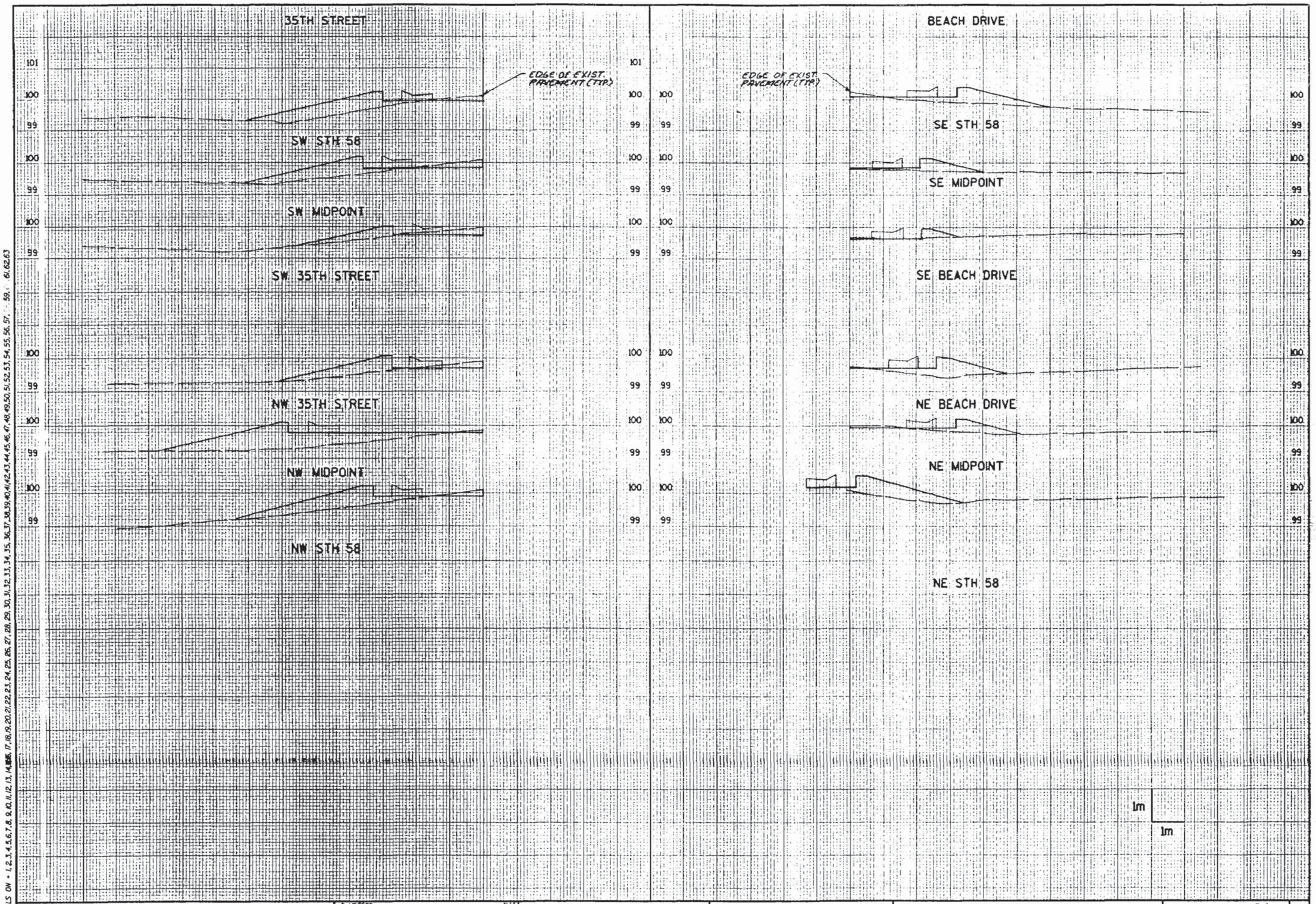


LEVELS ON - 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

CTH 'G' NORTH	0 METERS N/A	HWY: S.T.H. 58	COUNTY: JUNEAU	STATE PROJECT NO: 6639-04-71	SHEET NO: 9.20	M

FILE NAME: @FILE@ ORIGINATOR : HJS PLOT DATE : @DATE@ PLOT SCALE : TIME : @TIME@ STRAND ASSOCIATES INC.

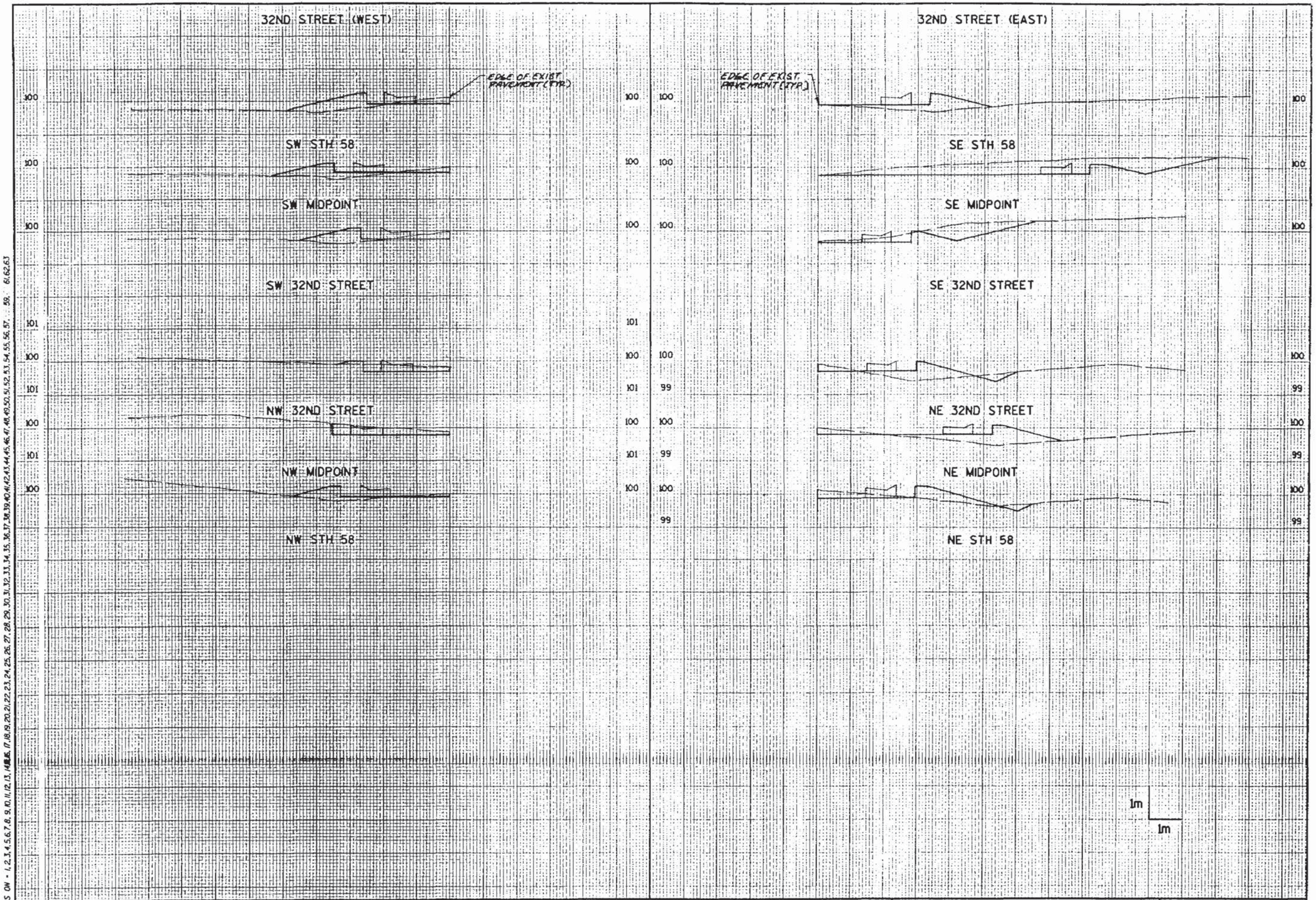
WISDOT: MSHT20



LEVELS ON - 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

35TH STREET/BEACH DRIVE	0 METERS N/A	HWY: S.T.H. 58	COUNTY: JUNEAU	STATE PROJECT NO: 6639-04-71	SHEET NO: 9.2	M

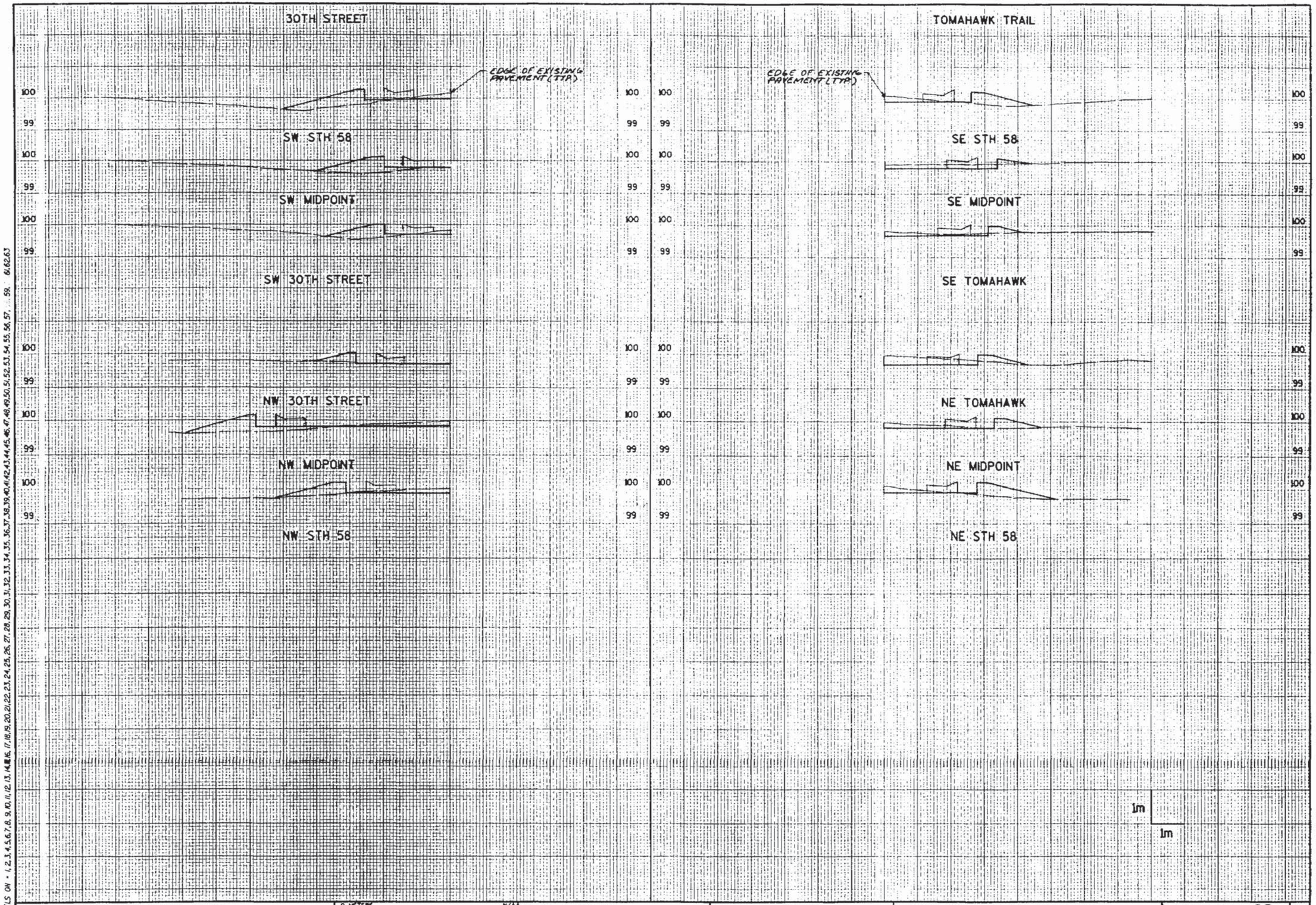
FILE NAME: @FILE@ ORIGINATOR : HJS PLOT DATE : @DATE@ PLOT SCALE : TIME : @TIME@ STRAND ASSOCIATES INC.



LEVELS ON - 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

32ND STREET (WEST)/32ND STREET (EAST) | 0 METERS | N/A | HWY: S.T.H. 58 | COUNTY: JUNEAU | STATE PROJECT NO: 6639-04-71 | SHEET NO: 9.22 | M

FILE NAME: @FILE@ ORIGINATOR : HJS PLOT DATE : @DATE@ PLOT SCALE : TIME : @TIME@ STRAND ASSOCIATES INC.



30TH STREET/TOMAHAWK TRAIL	0 METERS N/A	HWY: S.T.H. 58	COUNTY: JUNEAU	STATE PROJECT NO: 6639-04-71	SHEET NO: 9.23	M

FILE NAME: @FILE@ ORIGINATOR : HJS PLOT DATE : @DATE@ PLOT SCALE : TIME : @TIME@ STRAND ASSOCIATES INC.