

ORIGINATOR: DJD
 PROJECT NO: 44026100
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 DATE: 5/6/99
 FILE NAME: GENERAL
 DESIGN FILE IS I:\440261\dgn\general.dgn
 PLOT NA
 DATE OF PLOT = 04/22/99
 PEN TABLE = #dlof72#laser#mv80pp.tbl

GENERAL NOTES

THE LOCATION OF EXISTING AND PROPOSED UTILITY FACILITIES AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY FACILITIES WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.

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

ALL DISTANCES AND STATIONING SHOWN ON THIS PLAN ARE GROUND VALUES. GRID VALUES ARE OBTAINED BY MULTIPLYING GROUND VALUES BY 0.999940.

LIMITED EASEMENTS FOR WORK TO BE PERFORMED OUTSIDE OF THE RIGHT-OF-WAY HAVE BEEN OBTAINED AND THESE RIGHTS HAVE BEEN EXTENDED TO THE CONTRACTOR. NO TREES OR SHRUBS ARE TO BE REMOVED WITHOUT THE APPROVAL OF THE ENGINEER.

THE ELEVATIONS SHOWN ON THE ROADWAY CROSS SECTIONS ARE EARTH GRADE ELEVATIONS AT THE CENTERLINE OF THE ROADWAY.

ALL CUTS FOR CONCRETE REMOVAL SHALL BE MADE FULL DEPTH AND MADE BY DIAMOND SAWING.

INLET AND DISCHARGE ELEVATIONS FOR DRAINAGE STRUCTURES SHOWN ON THE PLAN ARE APPROXIMATE AND SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

ALL MEDIAN NOSES SHALL BE SLOPED PER S.D.D.

BOX OUTS FOR SIGNS IN CONCRETE MEDIANS SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

EXTRA DOWELS FOR INLETS, EXTRA JOINTS, AND CONCRETE PAVEMENT GAPS SHALL BE INCIDENTAL TO CONCRETE PAVEMENT CONSTRUCTION.

THE EXACT LOCATION FOR CONDUITS SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

THE EXACT LOCATIONS AND LIMITS OF PRIVATE ENTRANCES SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

CURB AND GUTTER RADIARE SHOWN TO THE FRONT FACE OF CURB.

THE EXACT LIMITS OF CONCRETE OR ASPHALTIC DRIVEWAY REMOVAL AND REPLACEMENT SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

ALL DISTANCES SHOWN ON THIS PLAN ARE GROUND DISTANCES. PROPERTY LINES AS SHOWN ARE APPROXIMATE.

EXCAVATION BELOW SUBGRADE (E.B.S.) IS NOT SHOWN ON THE CROSS SECTIONS OR PLAN AND PROFILE SHEETS, BUT IF REQUIRED, E.B.S. SHALL BE MEASURED AND PAID FOR AS UNCLASSIFIED EXCAVATION. THE LOCATION FOR E.B.S. IF REQUIRED, SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

YARDAGE IS COMPUTED BASED ON ANTICIPATED SCHEDULING. FILL MATERIAL IN 1st STAGE AT NORTH ABUTMENT IS BASED ON BORROW QUANTITY. ANY OVEREXCAVATION AND BACKFILLING TO THE ORIGINAL GROUND LIMITS FOR STAGING IS INCIDENTAL TO OTHER WORK IN THIS CONTRACT.

WHEN THE QUANTITY OF CRUSHED AGGREGATE BASE COURSE IS MEASURED FOR PAYMENT BY THE MQ, THE DEPTH OR THICKNESS AS SHOWN ON THE PLAN IS APPROXIMATE AND THE ACTUAL THICKNESS WILL DEPEND UPON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER IN THE FIELD.

ALL CONCRETE DRIVEWAYS AND SIDEWALKS ACROSS DRIVEWAYS SHALL BE 150 mm THICK, AND SHALL BE PAID FOR AS CONCRETE DRIVEWAY.

THE REMOVAL OF CONCRETE DRIVEWAYS SHALL BE PAID FOR AS CONCRETE SIDEWALK REMOVAL.

ALL LANDSCAPE ITEMS, TREES, SHRUBS, PLANTERS, AND SIGNS IN TEMPORARY LIMITED EASEMENT AREAS SHALL NOT BE DISTURBED UNLESS OTHERWISE SHOWN.

RUNOFF COEFFICIENT FOR THIS PROJECT:
 EXISTING PAVEMENT: 0.78 EXISTING SLOPES: 0.28
 NEW PAVEMENT: 0.80 NEW SLOPES: 0.28
 TOTAL PROJECT AREA 3.1 HECTARES TOTAL DISTURBED AREA: 2.6 HECTARES

UTILITIES

VILLAGE OF LITTLE CHUTE, DPW
 DEPARTMENT OF PUBLIC WORKS
 1940 BUCHANAN ST.
 LITTLE CHUTE, WISCONSIN 54140
 ATTENTION: GENE HOJAN
 TELEPHONE 1-920-788-7395

VILLAGE OF KIMBERLY, DPW
 515 WEST KIMBERLY AVE.
 KIMBERLY, WISCONSIN 54136
 ATTENTION: DICK VANDEN BOOGARD
 TELEPHONE 1-920-788-7507

VILLAGE OF COMBINED LOCKS
 405 WALLACE ST.
 COMBINED LOCKS, WISCONSIN 54113
 ATTENTION: MARK VAN THIEL
 TELEPHONE 1-920-788-7740

HEART OF THE VALLEY METR. SEWAGE COMM. DIST.
 801 THLMANY ROAD
 KAUKAUNA, WISCONSIN 54130
 ATTENTION: JOHN DAVIS
 TELEPHONE 1-920-766-5731

KAUKAUNA ELECTRIC AND WATER
 777 ISLAND ST.
 KAUKAUNA, WISCONSIN 54130
 ATTENTION: GARY WOLF
 TELEPHONE 1-920-766-5721
 EXT. 17

WISCONSIN GAS COMPANY
 1921 8th STREET SOUTH
 WISCONSIN RAPIDS, WISCONSIN 54494
 ATTENTION: DENNIS CHERNEY
 TELEPHONE 1-715-423-2800
 EXT. 7265

WISCONSIN ELECTRIC POWER COMPANY
 800 S. LYNNDALE
 APPLETON, WISCONSIN 54914
 ATTENTION: KEN SCHOENKE
 TELEPHONE 1-920-380-3359

AMERITECH
 221 WEST WASHINGTON ST.
 4TH FLOOR OSPE
 APPLETON, WISCONSIN 54911
 ATTENTION: JOE FEMLING
 TELEPHONE 1-920-735-3250

TIME WARNER
 1001 KENNEDY AVE.
 KIMBERLY, WISCONSIN 54136
 ATTENTION: STEVE POEHLIN
 TELEPHONE 1-920-831-9207

WISCONSIN CENTRAL LTD.
 1625 DEPOT STREET
 STEVENS POINT, WISCONSIN 54481
 ATTENTION: TERRY LEE
 TELEPHONE 1-715-345-2503

RAILROAD

D.N.R. LIAISON

DEPARTMENT OF NATURAL RESOURCES
 1125 NORTH MILITARY AVENUE
 GREEN BAY, WISCONSIN 54303
 ATTENTION: MR. AL STRANZ
 TELEPHONE 1-920-492-5818

SURVEY CONTACT PERSON

OUTAGAMIE COUNTY COURTHOUSE
 410 S. WALNUT ST.
 APPLETON, WISCONSIN 54911
 ATTENTION: JAMES A. HEBERT
 TELEPHONE 1-920-832-5255
 FAX 1-920-832-4470

METRIC STANDARD DETAIL DRAWINGS

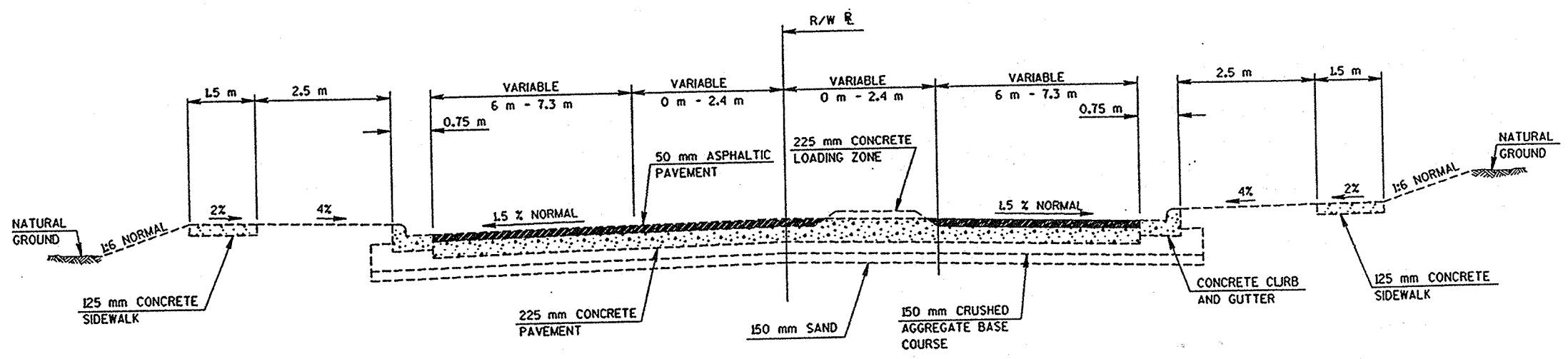
- 8A5-15a INLET COVERS
- 8A5-15d INLET AND MANHOLE COVERS
- 8B6-3 MANHOLES, TYPE 1
- 8C1-5 INLETS, TYPE 1,2,3, AND 4
- 8D1-12 CONCRETE CURB, CONCRETE CURB AND GUTTER, AND PAVEMENT TIES
- 8D5-8 CURB RAMPS
- 8E9-5 SILT FENCE
- 9B2-6 CONDUIT
- 9B3-2 CONDUIT FOR MAGNETIC DETECTOR
- 9B4-3 PULL BOX
- 9C2-2 CONCRETE BASES, TYPES 1,2, AND 5
- 9C3-2 TRANSFORMER/PEDESTAL BASES
- 9C5-2 CONCRETE CONTROL CABINET BASES
- 9D1-2 CABINET SERVICE INSTALLATION (METER BREAKER PEDESTAL)
- 9D2-2 SIGNAL OR LIGHTING CONTROL CABINET
- 9E1-3a POLE MOUNTING FOR TRAFFIC SIGNALS TYPE 2
- 9E1-3f HARDWARE DETAILS FOR POLE MOUNTINGS
- 9E5-1 TRAFFIC SIGNAL STANDARD ORNAMENTAL BRACKET MOUNTINGS
- 9F9-2 LOOP DETECTOR INSTALLED IN CRUSHED AGGREGATE BASE (NEW CONCRETE PAVEMENT)
- 11B1-1 CONCRETE CORRUGATED MEDIAN
- 11B2-1 CONCRETE MEDIAN NOSE
- 12A2-3 SLOPE PAVING-STRUCTURES (CRUSHED AGGREGATE)
- 12A3-5 NAME PLATE (STRUCTURES)
- 13C1-10 CONCRETE PAVEMENT LONGITUDINAL JOINTS AND PAVEMENT TIES
- 13C13-3 URBAN DOWELED CONCRETE PAVEMENT
- 14B7-9a TEMPORARY PRECAST CONCRETE BARRIER
- 14B7-9b TEMPORARY PRECAST CONCRETE BARRIER END SECTION
- 15C7-6a PAVEMENT MARKING SYMBOLS
- 15C8-8a PAVEMENT MARKING (MAINLINE)
- 15C8-8d PAVEMENT MARKING (LEFT TURN LANE)
- 15C8-8e PAVEMENT MARKING (ISLANDS, STOPLINE, AND CROSS WALK)
- 15C11-5 FLEXIBLE TUBULAR MARKER POST, ANCHOR AND BASES



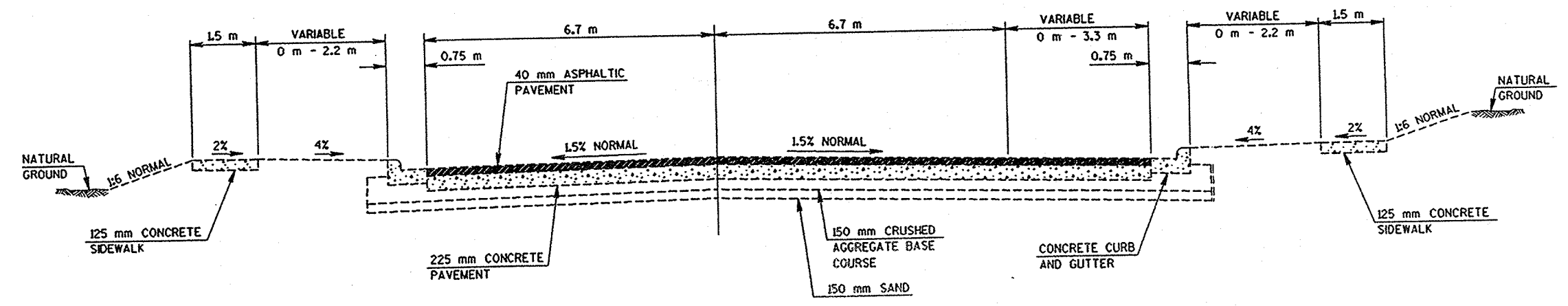
TO OBTAIN LOCATION OF PARTICIPANTS' UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN

CALL DIGGERS HOTLINE
1-800-242-8511
 TOLL FREE
 TELEFAX (920) 259-0947
 TDD (FOR HEARING IMPAIRED) 1-800-542-2289
 WIS. STATUTE 182.0175 (1974)
 REQUIRES MIN. OF 3 WORK DAYS
 NOTICE BEFORE YOU EXCAVATE.

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 PROJECT NO: 44026100
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TYPICAL EXISTING CROSS SECTION FOR C.T.H. "N"
 STA. 10+110.6 TO STA. 10+412

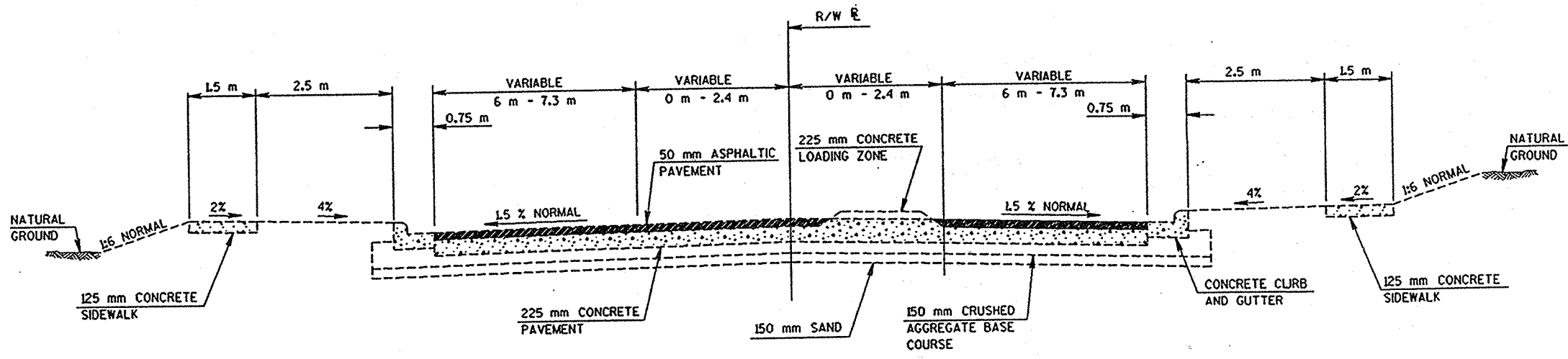


EXISTING TYPICAL CROSS SECTION FOR C.T.H. "N"
 STA. 10+698 TO STA. 10+920

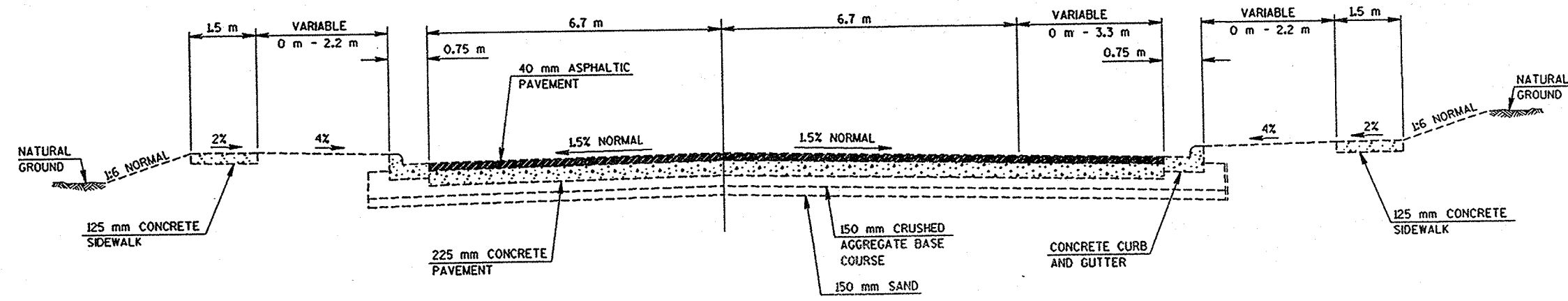
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ORIGINATOR: DJD
 DATE: 12/10/97
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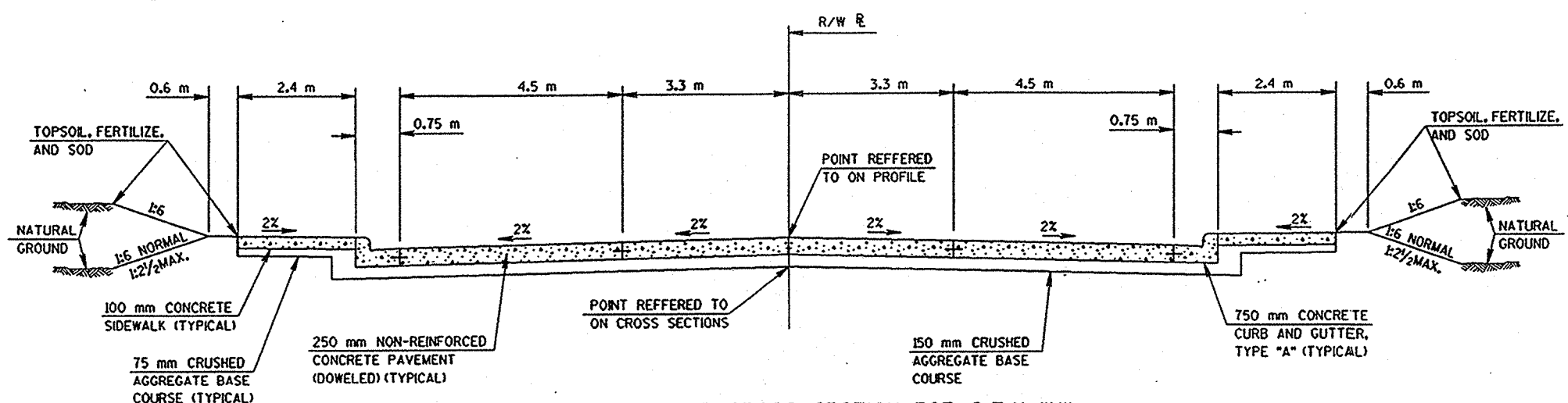


TYPICAL EXISTING CROSS SECTION FOR C.T.H. "N"
 STA. 10+110.6 TO STA. 10+412

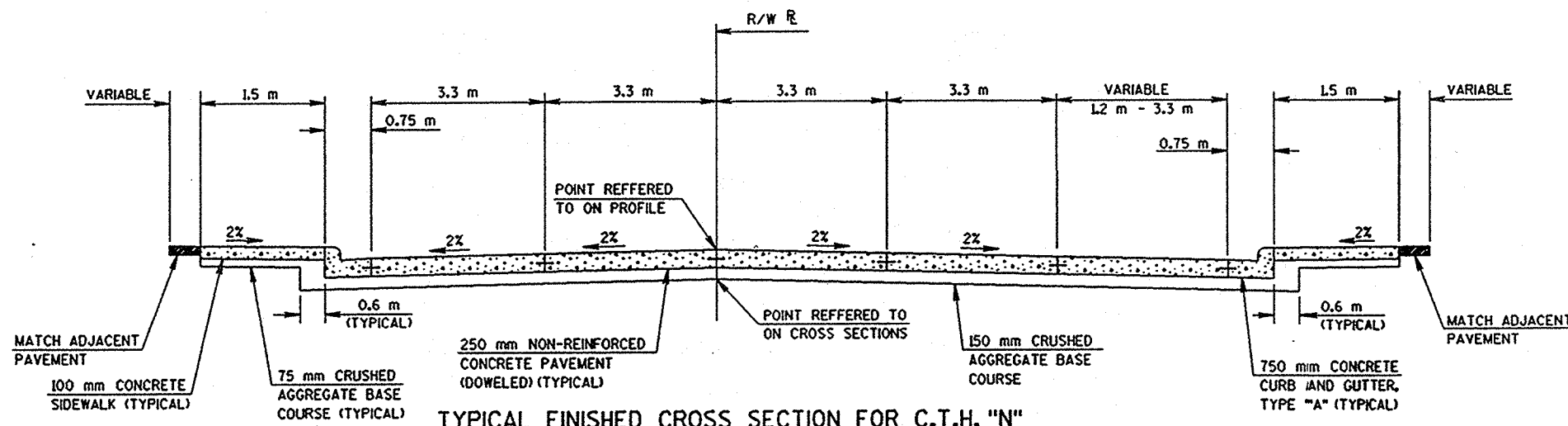


EXISTING TYPICAL CROSS SECTION FOR C.T.H. "N"
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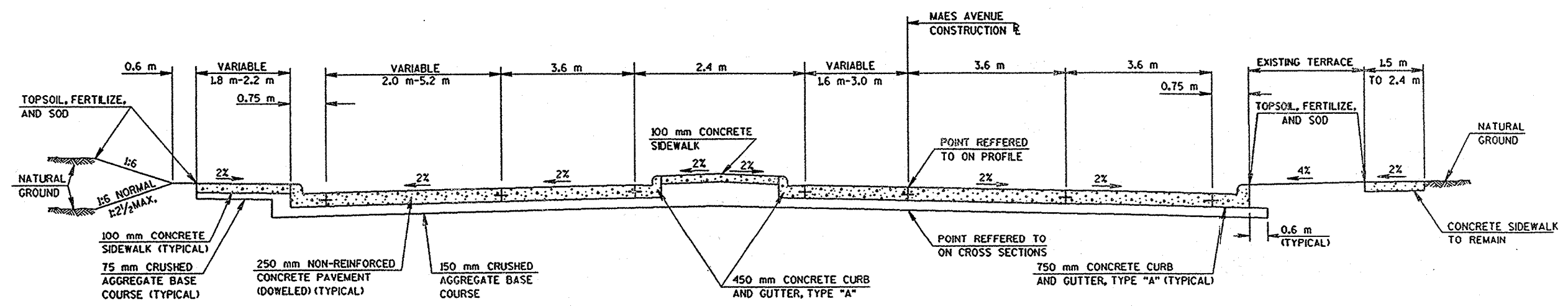
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TYPICAL FINISHED CROSS SECTION FOR C.T.H. "N"
 STA. 10+698 TO STA. 10+824

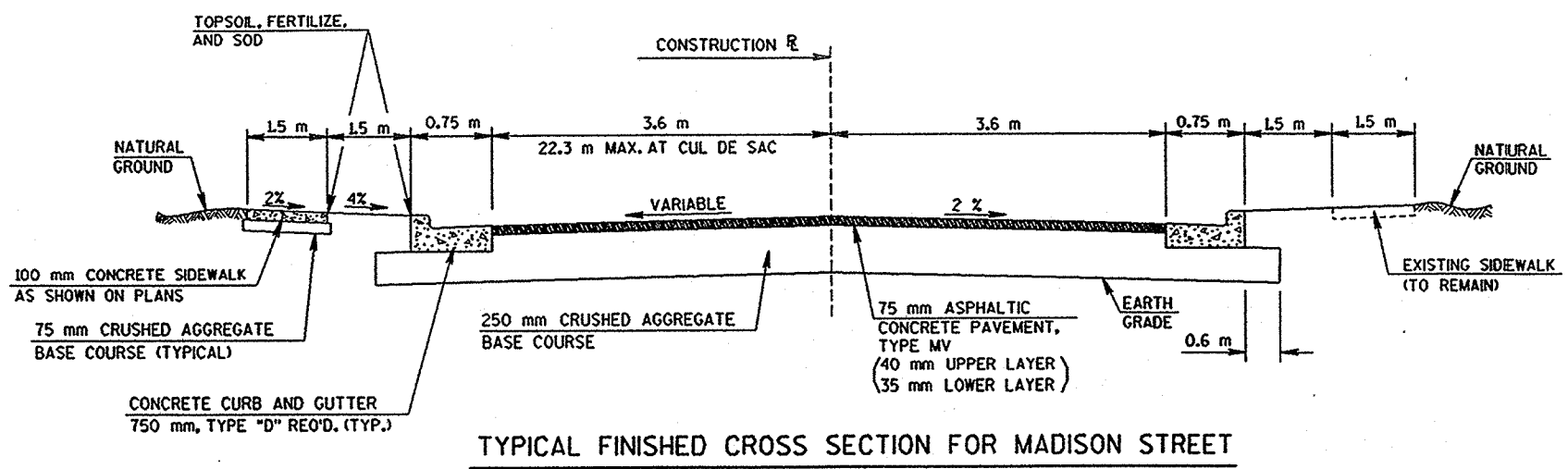


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 STA. 10+824 TO STA. 10+930

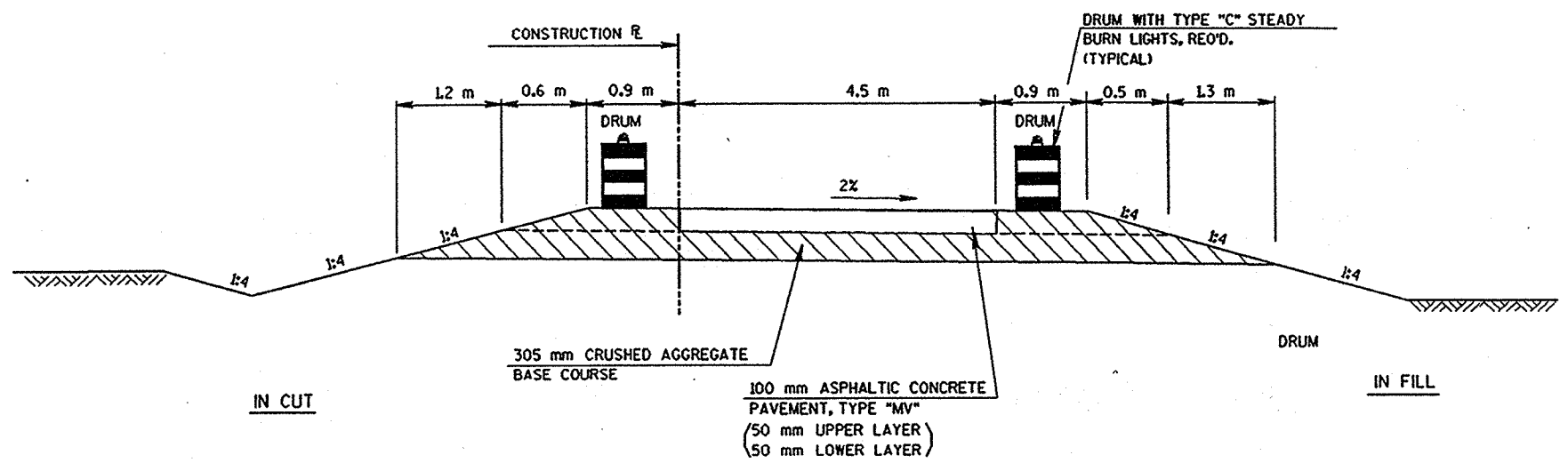


TYPICAL FINISHED CROSS SECTION FOR MAES AVENUE
 STA. 19+878 TO STA. 19+980

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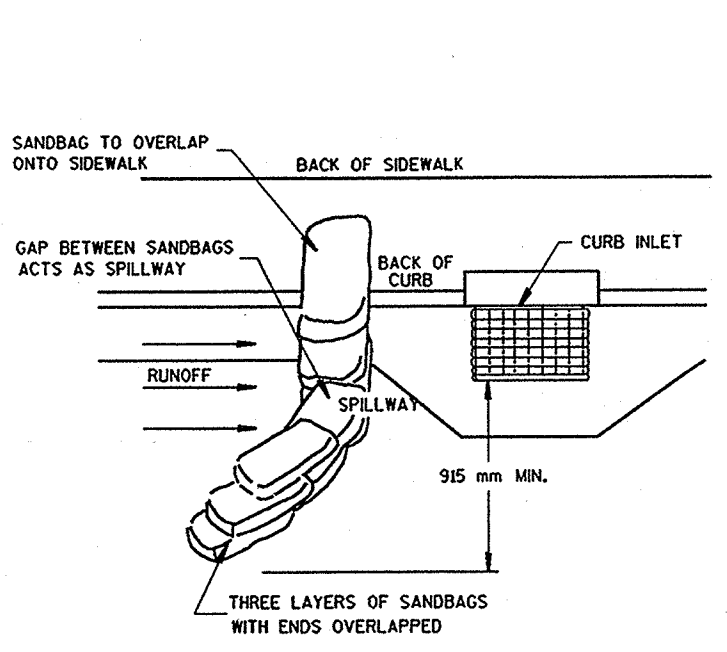


TYPICAL FINISHED CROSS SECTION FOR MADISON STREET

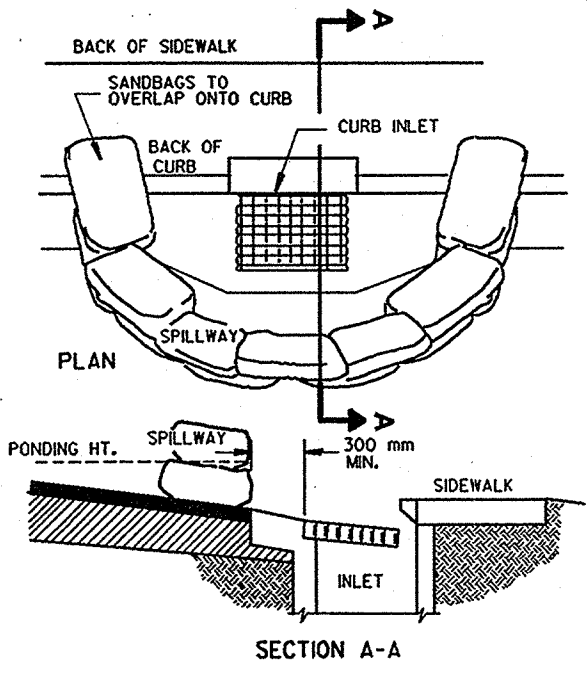


TYPICAL FINISHED SECTION FOR ONE-WAY CROSSOVER

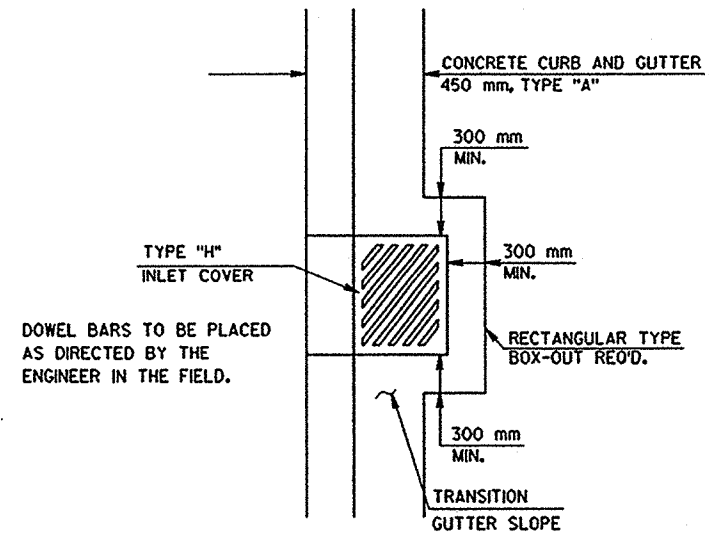
STA. 10+716-10+760 (STAGE 3)



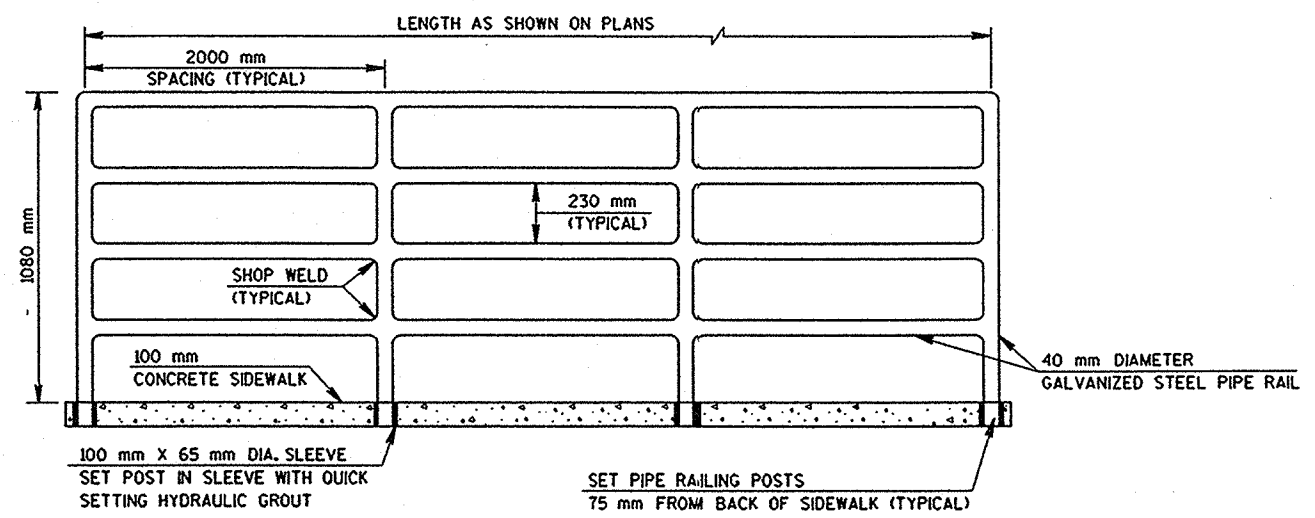
CURB INLET SEDIMENT BARRIER (FILTERBAG TYPE)



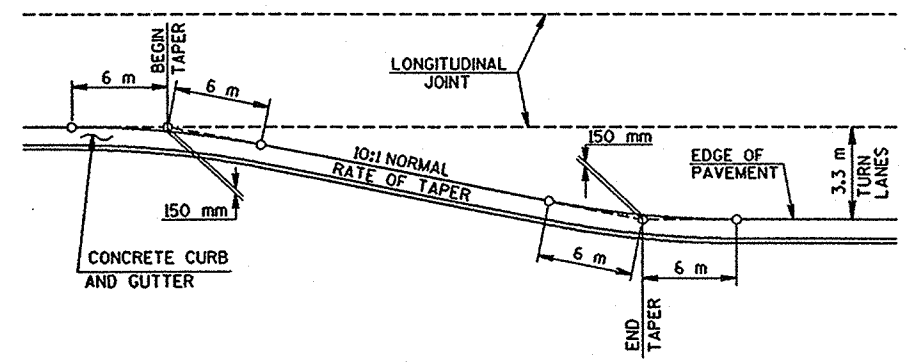
CURB INLET SEDIMENT BARRIER (FILTERBAG TYPE)



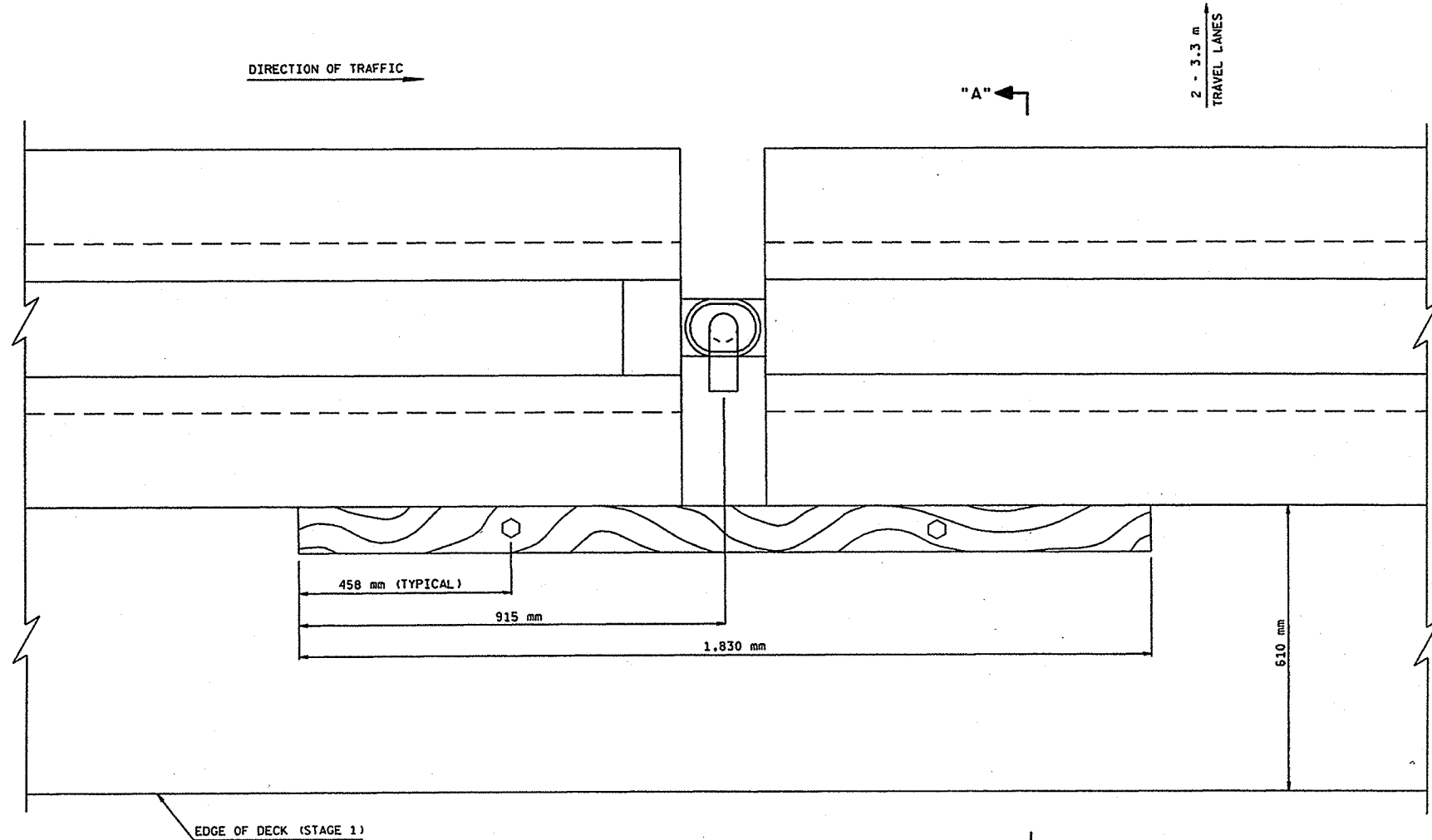
PLACEMENT OF INLET DETAILS
 450 mm CURB AND GUTTER



PIPE RAILING DETAIL
 REFER TO PLAN SHEETS AND MISCELLANEOUS QUANTITIES FOR LOCATIONS, DIMENSIONS, AND PAY QUANTITIES.
 ALL DIMENSIONS SHOWN IN MILLIMETERS.



TYPICAL LAYOUT FOR TURN LANE TAPER TRANSITIONS
 FOR MAINLINE TURN LANES AND MEDIAN STORAGE TURN LANES



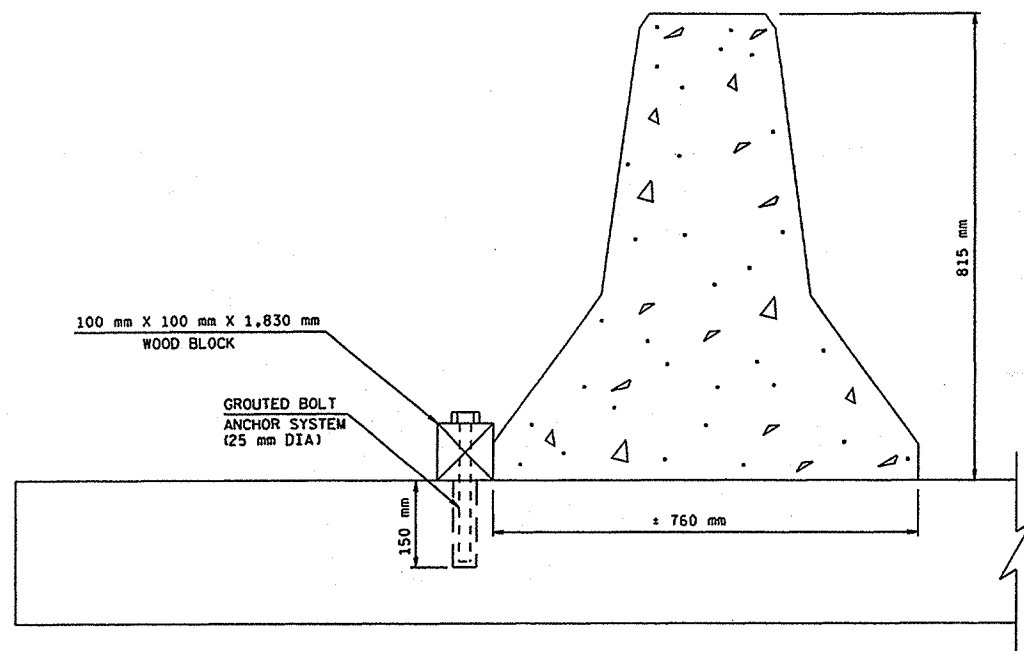
TEMPORARY BARRIER RETAINING BLOCK

NOTE:

TEMPORARY BARRIER RETAINING BLOCK TO BE PLACED AT ± 20 FOOT INTERVALS (EVERY OTHER BARRIER JOINT LOCATION).

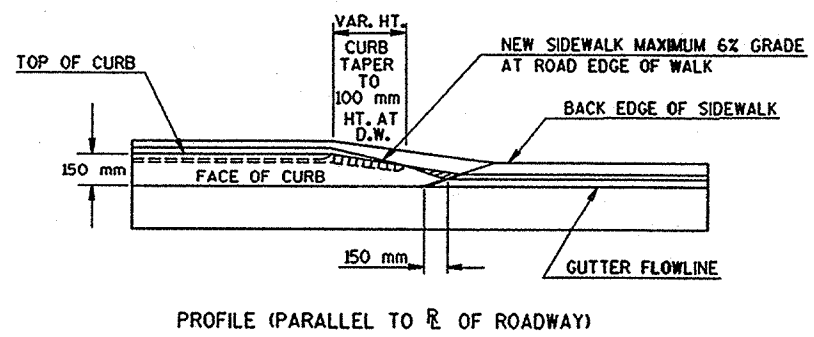
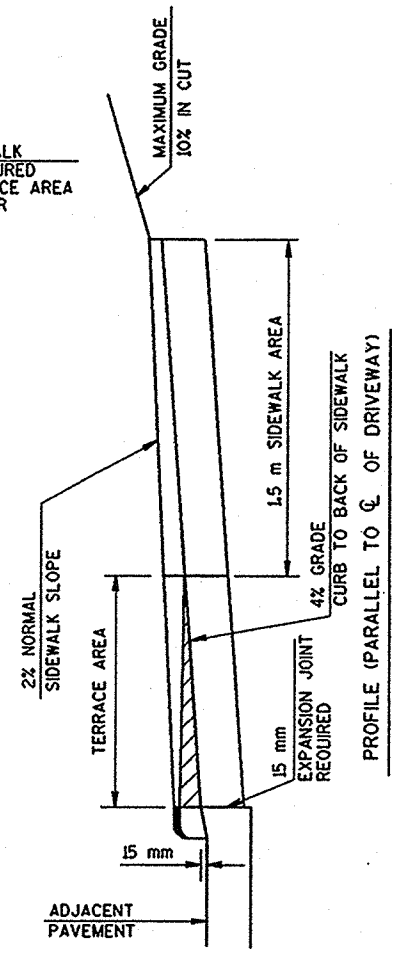
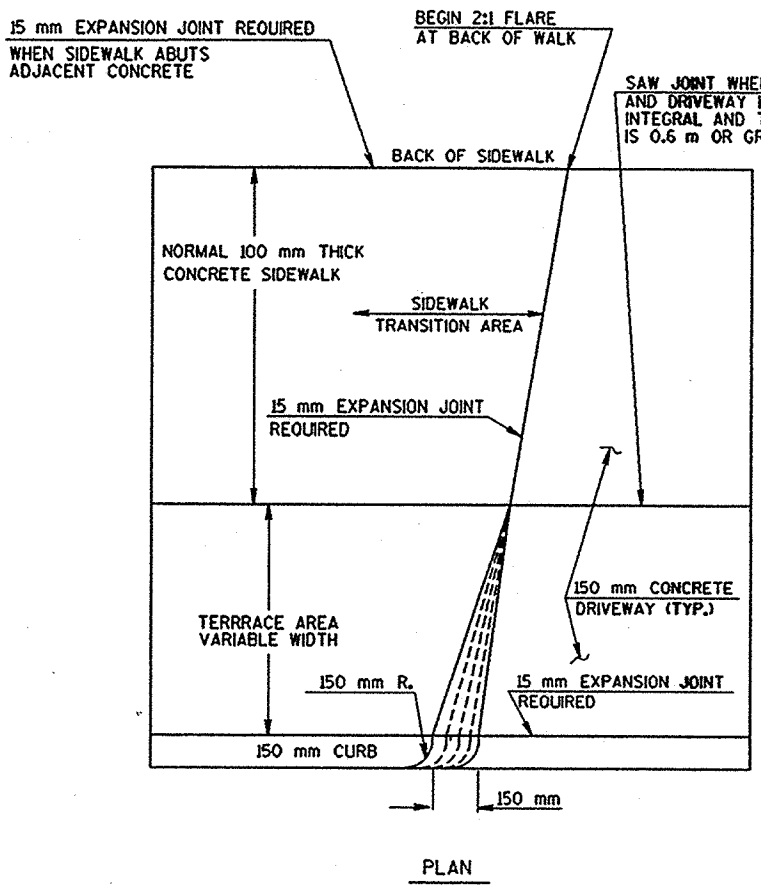
PLACE BOLTS TO MISS TRANSVERSE REINFORCING STEEL IN DECK.

PRE-DRILLED HOLES FOR ANCHOR BOLTS ARE TO BE MADE IN A METHOD AS TO NOT DAMAGE THE DECK SURFACE.

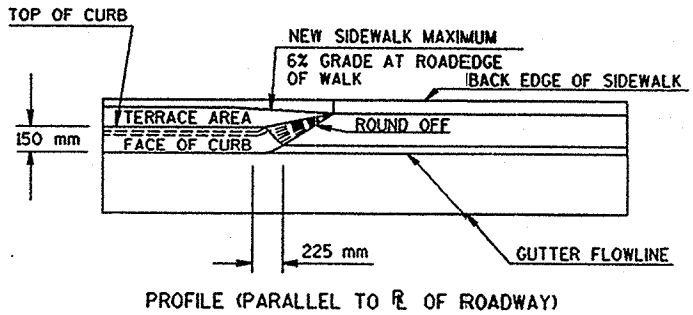
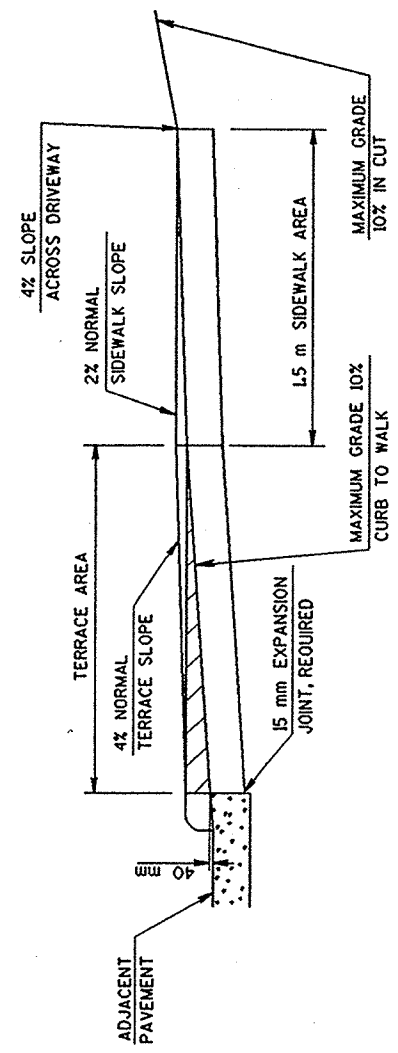
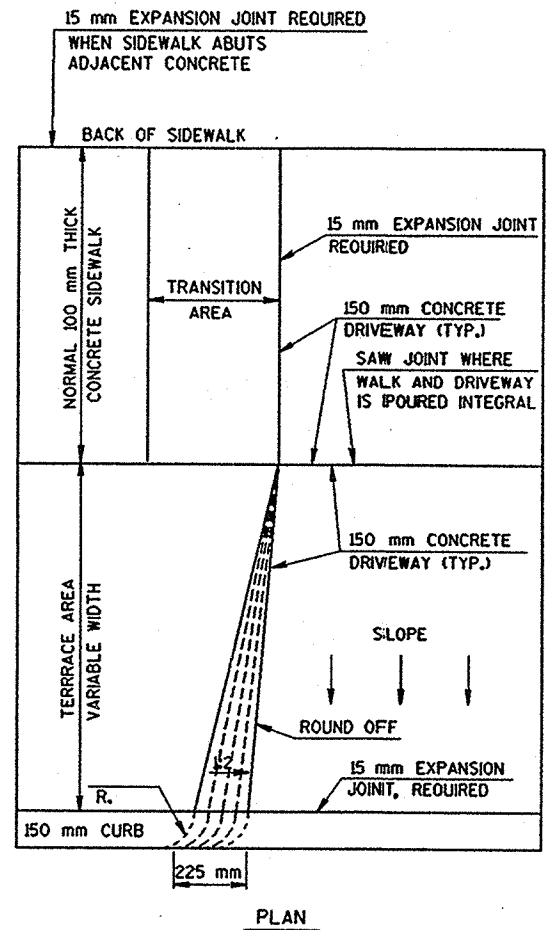


SECTION A-A

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WHEN TERRACE WIDTH IS 1.2 m OR LESS

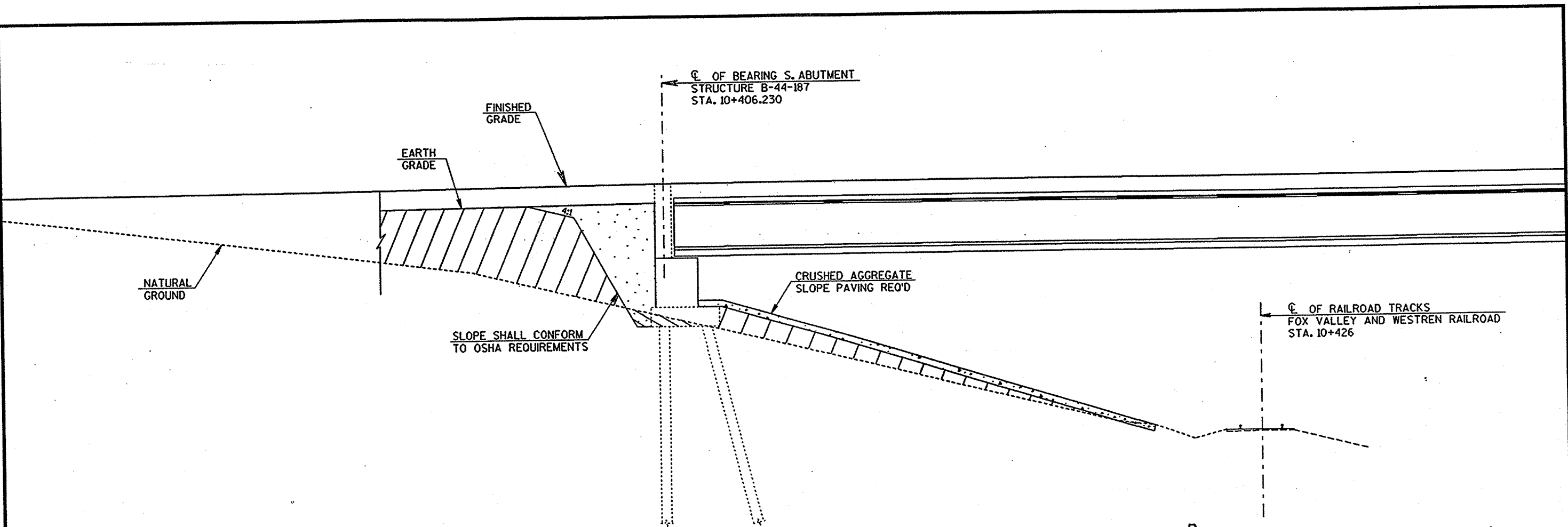


WHEN TERRACE WIDTH IS GREATER THAN 1.2 m

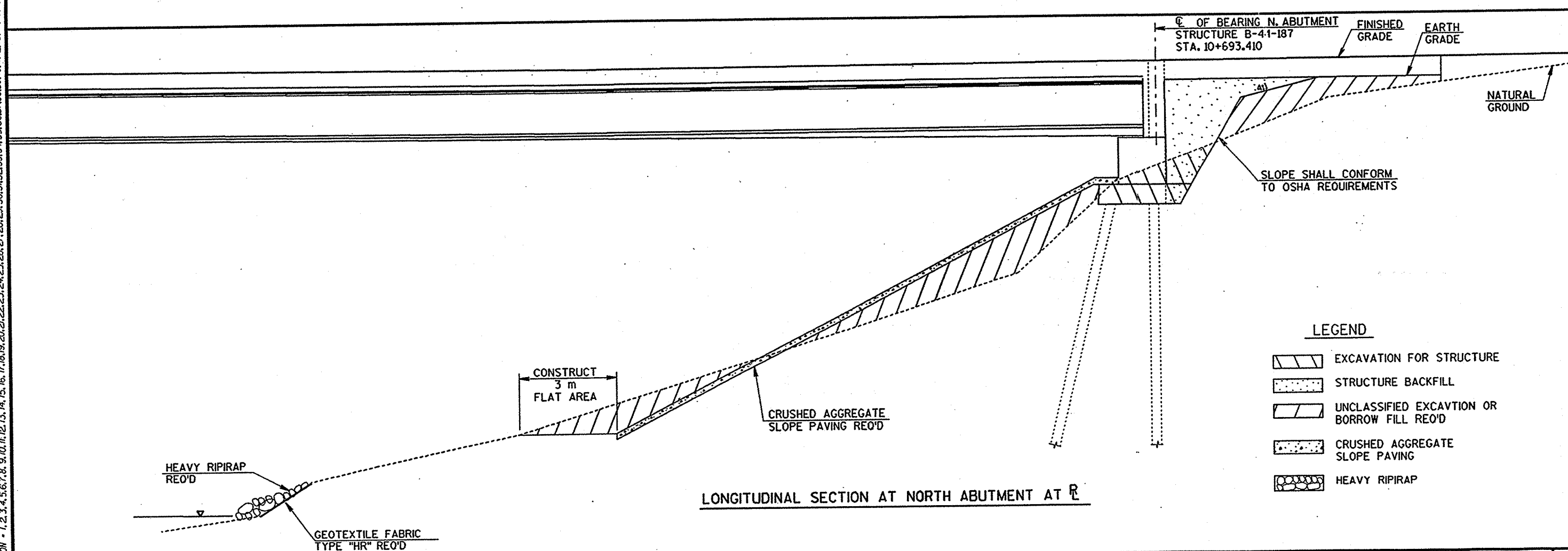
DRIVEWAY DETAILS
GENERAL NOTES

ALL EXPANSION JOINT MATERIAL SHALL BE 25 mm DEEPER THAN THE CONCRETE SLAB BEING PLACED.
 CONCRETE - 150 mm DEPTH (INCLUDING WALK ACROSS DRIVE).
 RESIDENTIAL DRIVEWAY WIDTHS SHALL BE A MAXIMUM OF 7.3 m
 COMMERCIAL DRIVEWAY WIDTHS SHALL BE A MAXIMUM OF 10.7 m

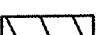
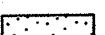
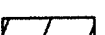

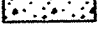
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 ORIGINATOR: DJD
 WISDOT: MSH 122



LONGITUDINAL SECTION AT SOUTH ABUTMENT AT R



LONGITUDINAL SECTION AT NORTH ABUTMENT AT R

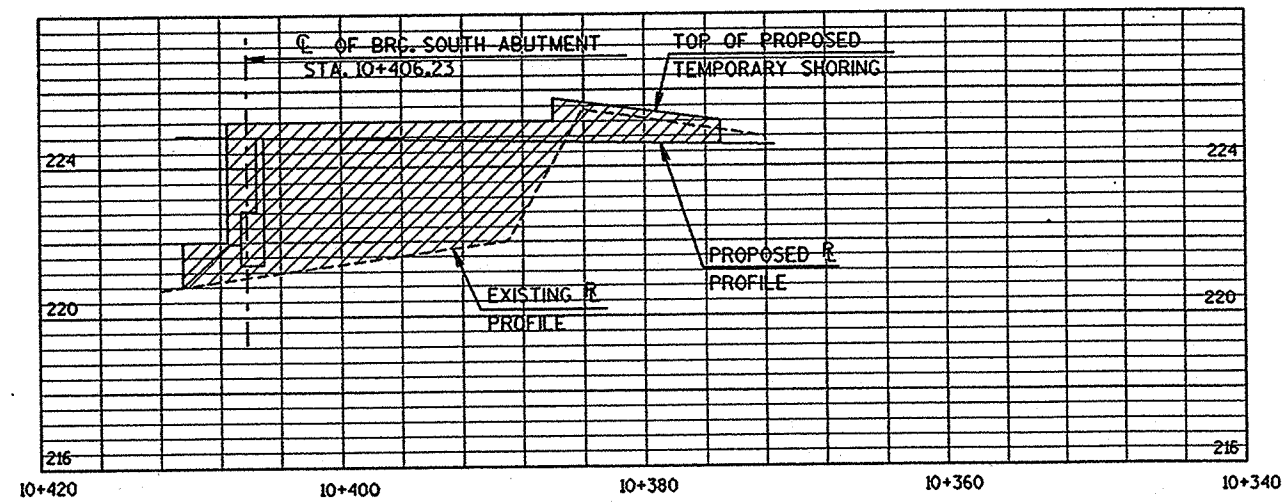
- LEGEND**
-  EXCAVATION FOR STRUCTURE
 -  STRUCTURE BACKFILL
 -  UNCLASSIFIED EXCAVATION OR BORROW FILL REQ'D
 -  CRUSHED AGGREGATE SLOPE PAVING
 -  HEAVY RIPIRAP

GB2
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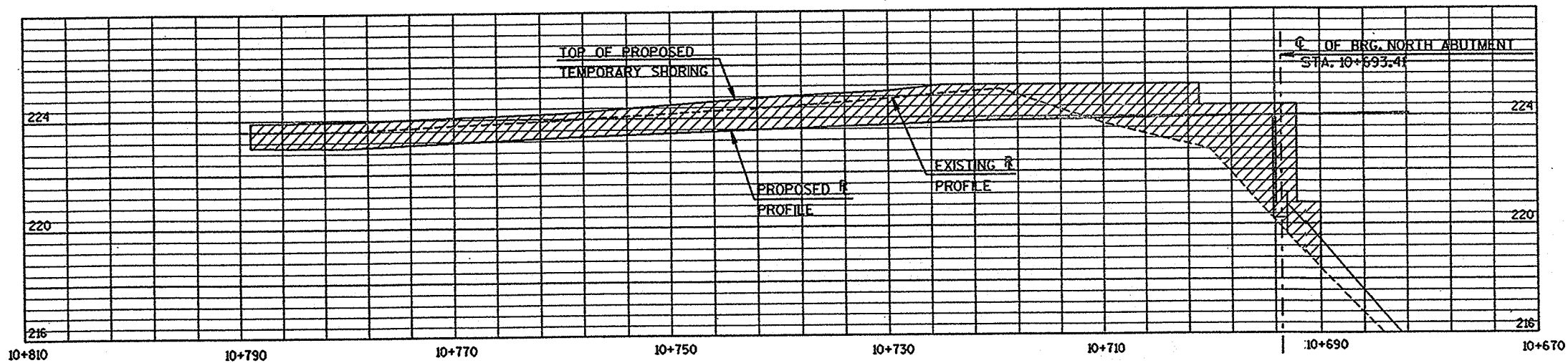
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TEMPORARY SHORING DETAIL FOR SOUTH APPROACH
 (LOOKING SOUTHEAST)

- TEMPORARY SHORING



TEMPORARY SHORING DETAIL FOR NORTH APPROACH
 (LOOKING SOUTHEAST)

- TEMPORARY SHORING

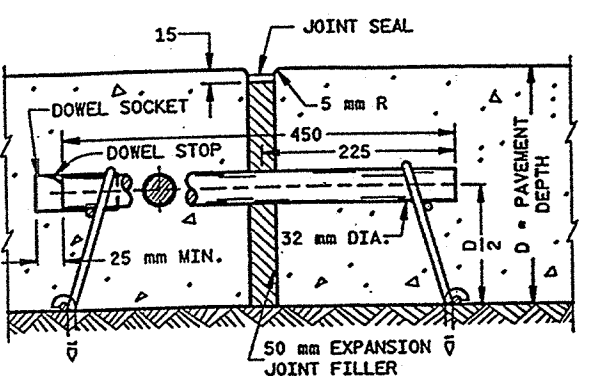
PLOT SCALE:

PLOT NAME:

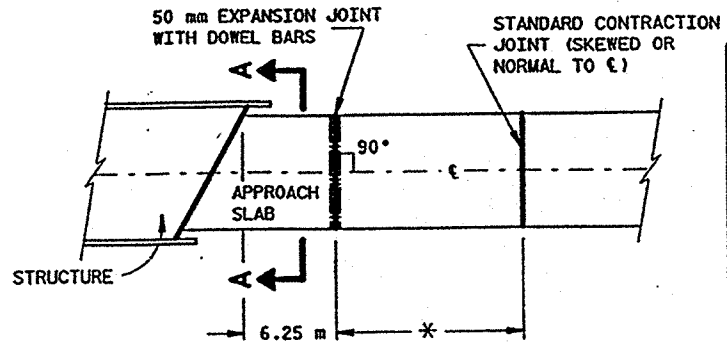
REV. DATE:

ORIGINATOR:

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



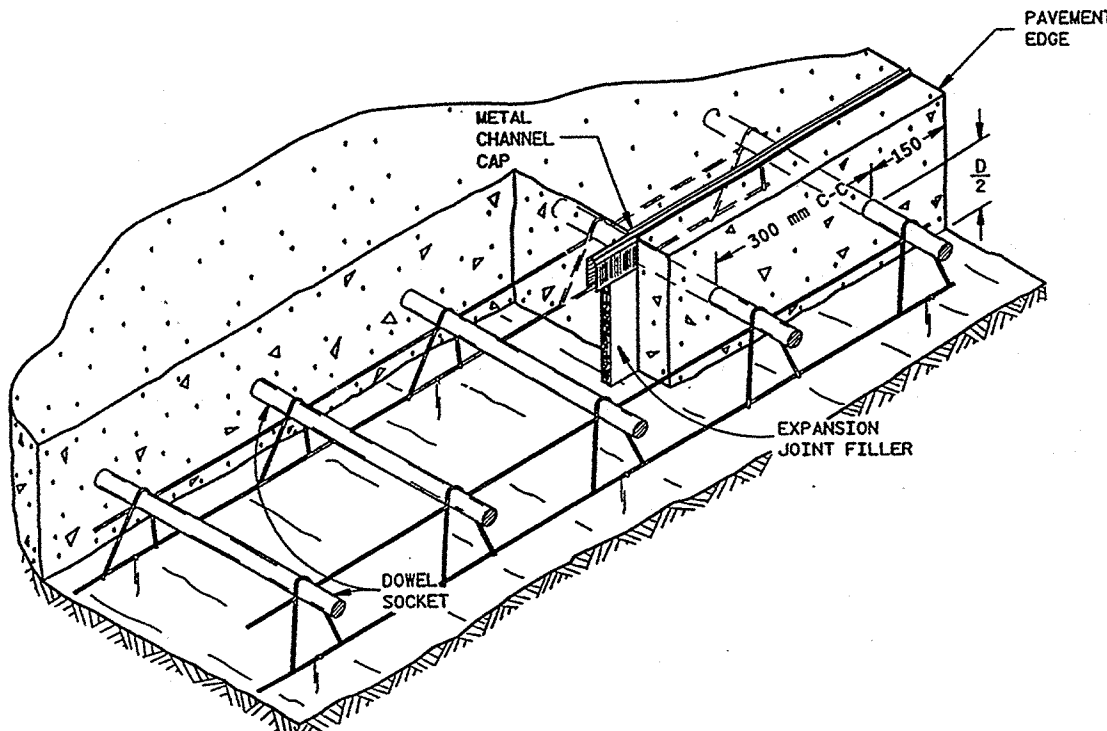
EXPANSION JOINT



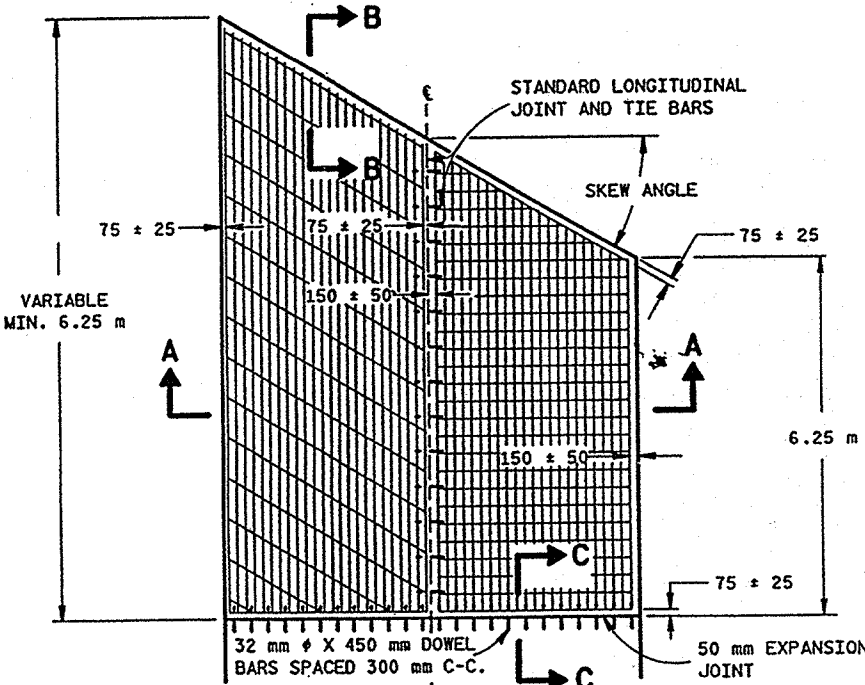
APPROACH SLAB AND ADJACENT PAVEMENT
 * 3.70 m MIN., 6.1 m MAX. FOR NON-REINFORCED CONCRETE PAVEMENT. 12.2 m ± 0.6 m FOR REINFORCED CONCRETE PAVEMENT.

BIDDING INFORMATION

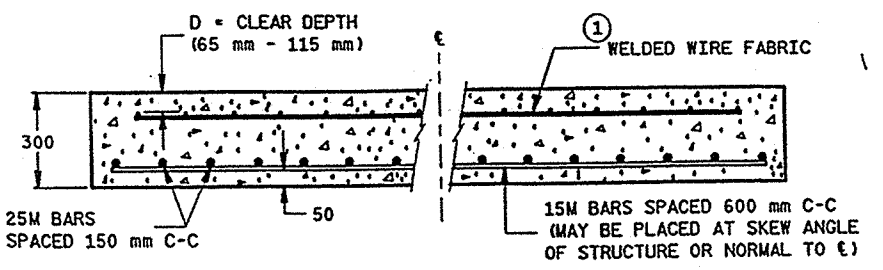
| SKEW ANGLE | APPROACH SLAB QUANTITIES (ONE SLAB, 7.2 m WIDE) | | | | | |
|------------|---|----------------|------------------------|-----|--------------------------------|----------|
| | CONCRETE PAVEMENT | | WELDED WIRE FABRIC (1) | | STEEL REINFORCEMENT (GRADE 60) | |
| | m ² | m ³ | m ² | kg | 25M BARS | 15M BARS |
| 0° | 45.7 | 15.2 | 45.7 | 123 | 1201 | 67 |
| 15° | 52.8 | 17.6 | 52.8 | 142 | 1385 | 76 |
| 30° | 66.9 | 22.3 | 66.9 | 164 | 1600 | 88 |
| 45° | 72.5 | 24.2 | 72.5 | 195 | 1840 | 103 |
| 60° | 92.1 | 30.7 | 92.1 | 247 | 2395 | 130 |



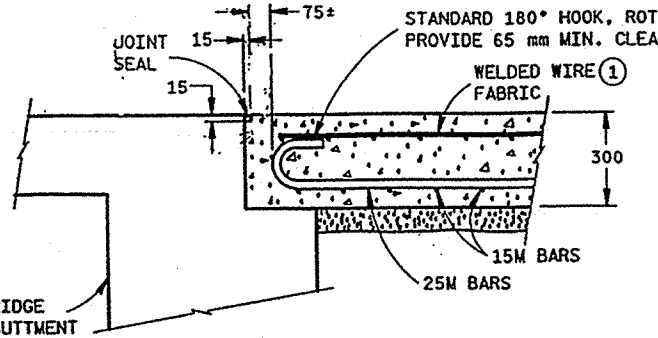
INSTALLING DEVICE FOR DOWEL BARS AND EXPANSION JOINT ASSEMBLY



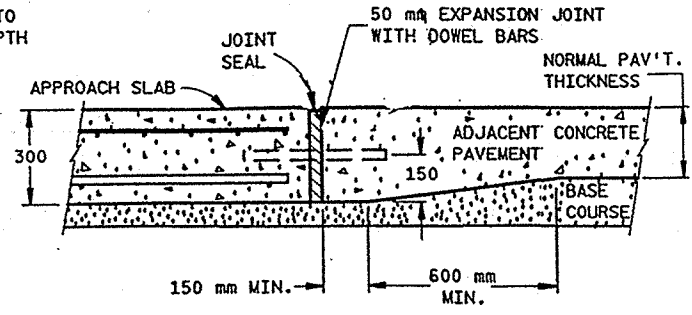
HALF SECTION BOTTOM REINFORCEMENT
 HALF SECTION TOP REINFORCEMENT
 APPROACH SLAB



SECTION A-A REINFORCEMENT POSITIONING DETAIL



SECTION B-B BEND DETAIL BOTTOM REINFORCEMENT



SECTION C-C TRANSITION DETAIL APPROACH SLAB TO ADJACENT PAVEMENT

NOTES

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

DOWEL BARS

DOWEL BARS ACROSS EXPANSION JOINTS SHALL BE CORROSION RESISTANT COATED CONFORMING TO THE REQUIREMENTS OF AASHTO DESIGNATION M 254. THE COATING TYPE SHALL BE, TYPE B - THERMOSETTING EPOXY.

JOINT SEALING

- EXPANSION JOINTS SHALL BE SEALED AS FOLLOWS:
- ON PAVEMENTS HAVING TRANSVERSE CONTRACTION JOINTS SEALED WITH A Poured TYPE SEALER, EXPANSION JOINTS SHALL BE SEALED WITH THE SAME TYPE SEALANT, 5 mm BELOW PAVEMENT SURFACE.
 - ON PAVEMENTS WITH NO CONTRACTION JOINTS, UNSEALED CONTRACTION OR CONTRACTION JOINTS SEALED WITH COMPRESSION TYPE SEALS, EXPANSION JOINTS SHALL BE SEALED WITH A Poured TYPE SEALER AS SPECIFIED IN THE PLANS OR SPECIAL PROVISIONS.

(1) WELDED WIRE FABRIC

6 X 12 - W5.5 X W4.0 OR METRIC EQUIVALENT
 SHEET WIDTHS OF 2.5 m ARE PERMITTED.

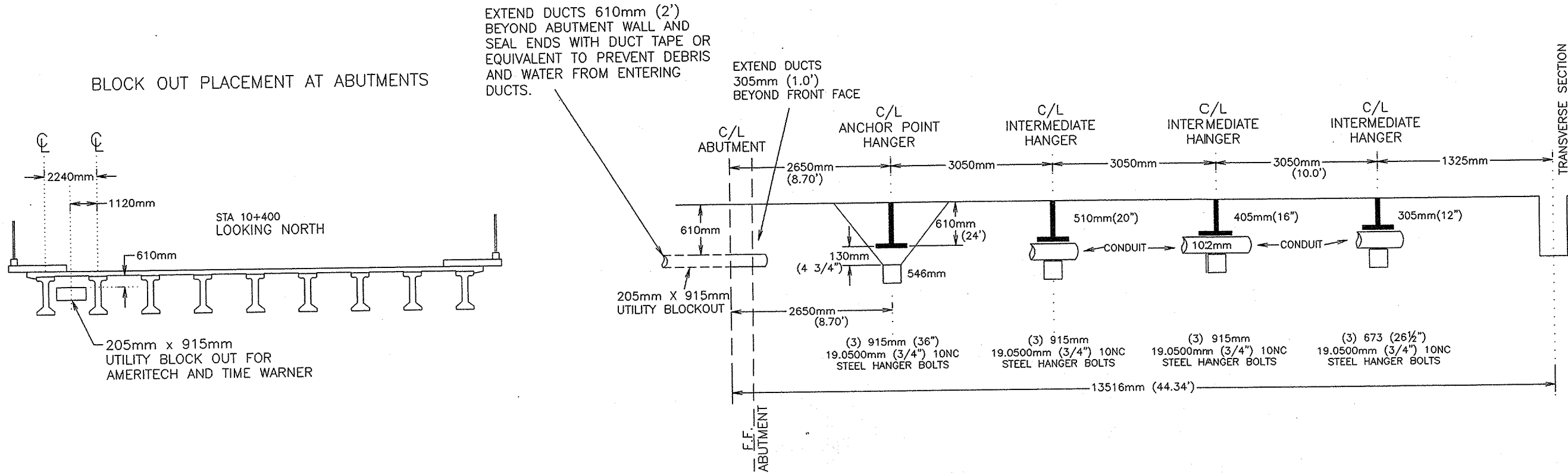
STEEL REINFORCEMENT

SPLICING OF 25M BARS IN THE APPROACH SLAB IS PERMITTED FOR SKEWED STRUCTURES ONLY. SPLICES SHALL BE STAGGERED, WITH A MAXIMUM OF ONE SPLICE PER BAR. LAPS SHALL CONFORM TO THE STANDARD SPECIFICATIONS.

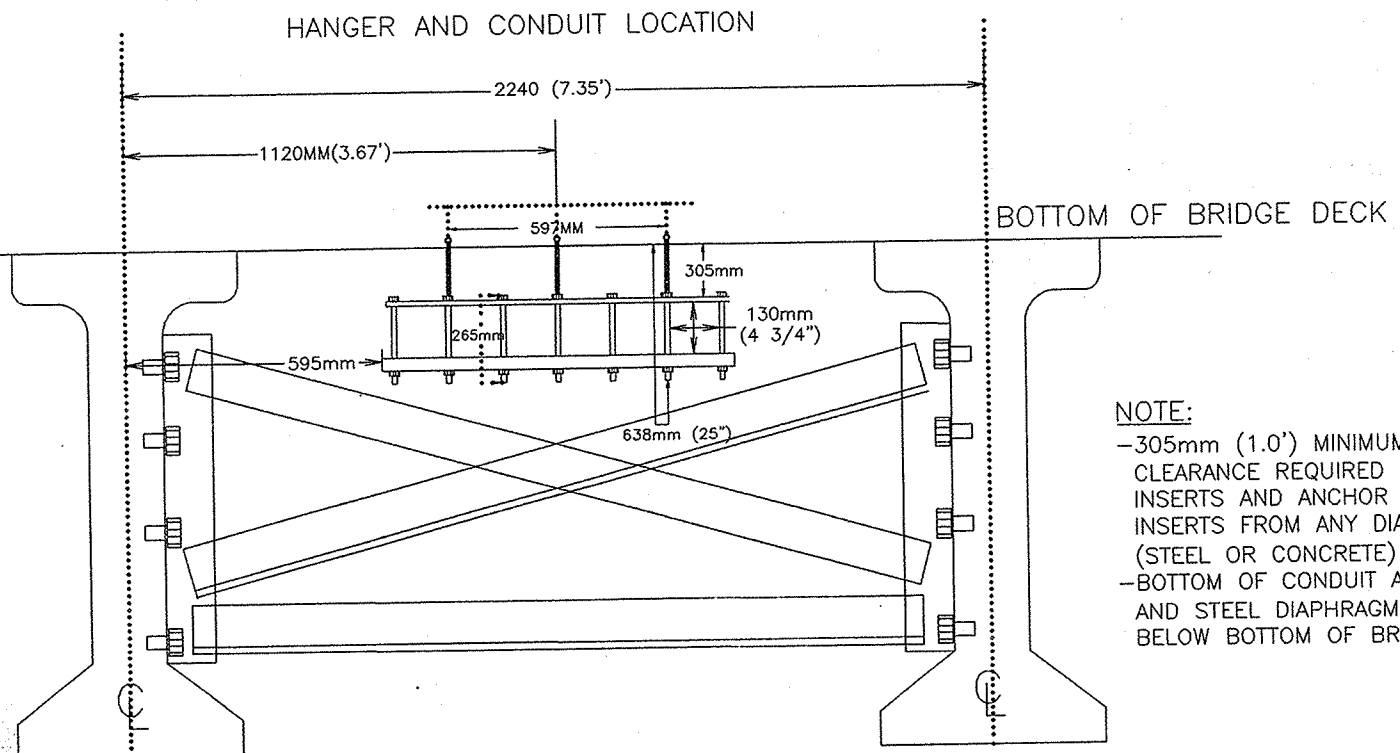
NOTE

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN.

ANCHOR POINT HANGER & INTERMEDIATE HANGER LOCATIONS
BETWEEN SPANS 1 AND 7 C/L FROM ABUTMENT TO THE FIRST
STEEL DIAPHRAGM 13516mm FROM FF ABUTMENTS



HANGER AND CONDUIT LOCATION



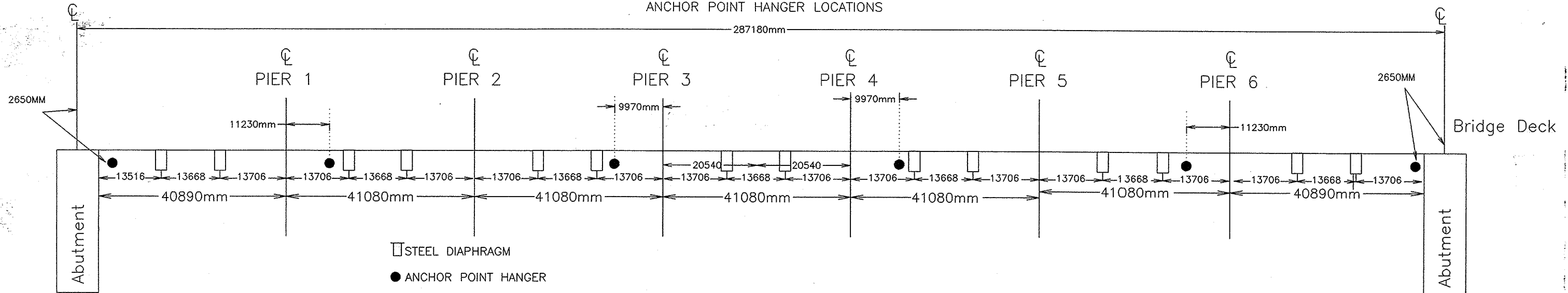
NOTE:
-305mm (1.0') MINIMUM CLEARANCE REQUIRED OF HANGER INSERTS AND ANCHOR BRACE INSERTS FROM ANY DIAPHRAGM. (STEEL OR CONCRETE)
-BOTTOM OF CONDUIT AT DIAPHRAGMS IS AND STEEL DIAPHRAGM 435mm (1.42') BELOW BOTTOM OF BRIDGE DECK

UTILITY DETAILS

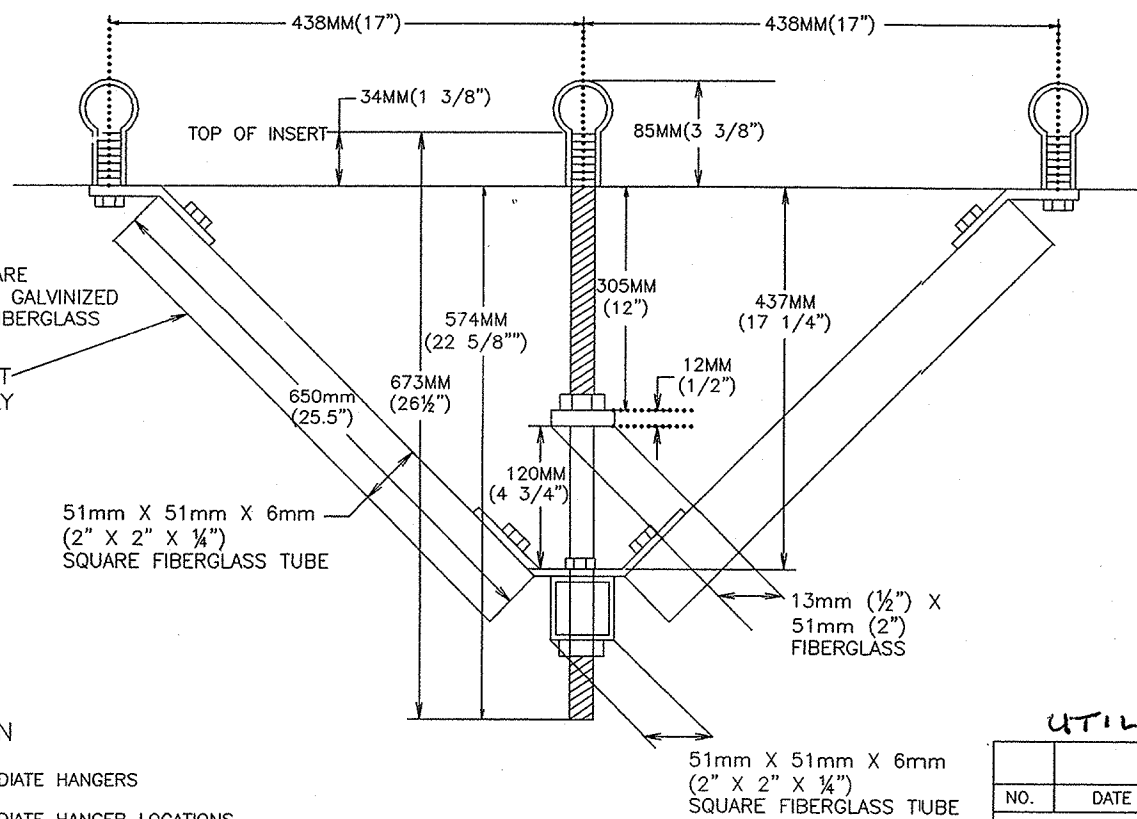
| NO. | DATE | REVISION | BY |
|---|----------------|---------------|---------------|
| DATA-TEL COMMUNICATION SERVICES 1241 BELLEVUE ST. GREEN BAY, WI 54302 | | | |
| STRUCTURE B-44-187 | | | |
| LOCATION OF JOB: | | | |
| COUNTY: | | VILLAGE: | |
| DESIGN SPEC.: | | LOAD: | CONST. SPEC.: |
| DESIGNED BY: TAF | DESIGNED CK'D: | DRAWN BY: LAH | PLANS CK'D: |
| APPROVED _____ | | | DATE |
| CHIEF STRUCTURAL DESIGN ENGINEER | | | |
| AMERITECH / TIME WARNER BRIDGE DUCT WORK ASSEMBLY | | | SHEET OF 2.12 |
| EXAMPLE SHEET A | | | DATE: |

COUNTY: OUTAGAME STATE PROJECT NO: 4676-03-71

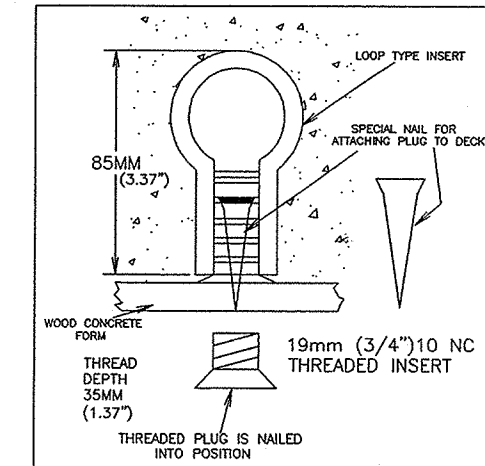
ANCHOR POINT HANGER LOCATIONS



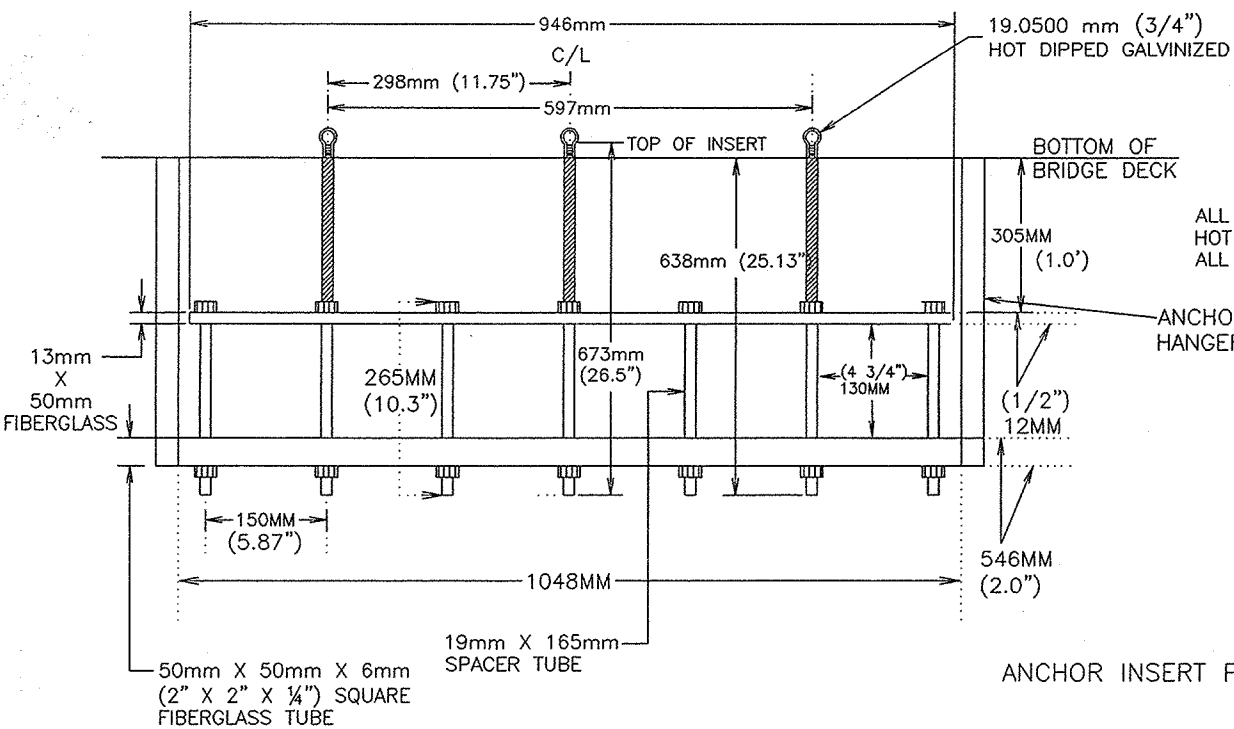
ANCHOR POINT HANGERS SIDE VIEW



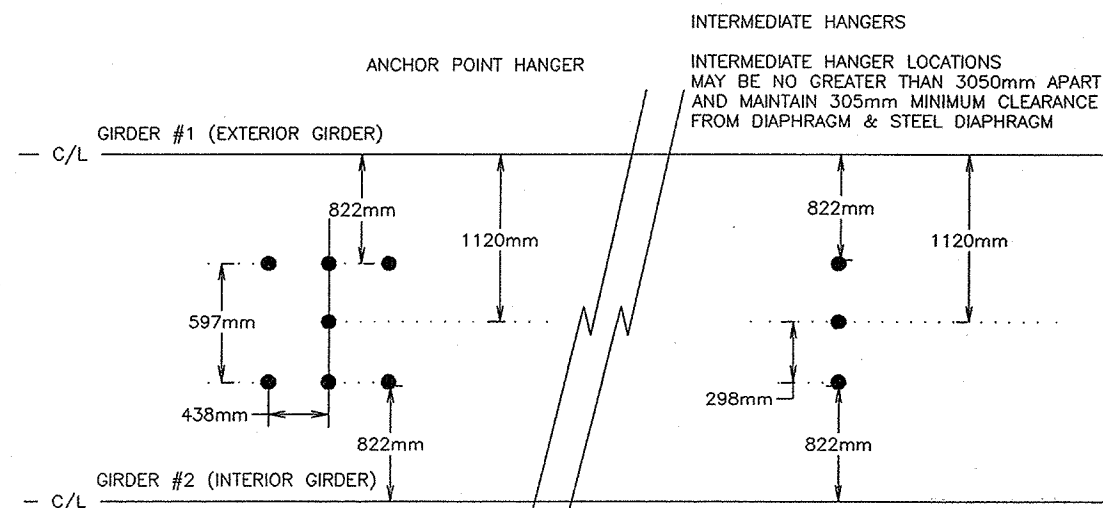
INSERTS FOR ALL HANGERS



ANCHOR POINT HANGER AND INTERMEDIATE HANGER FRONT/REAR FACE



ANCHOR INSERT PATTERN

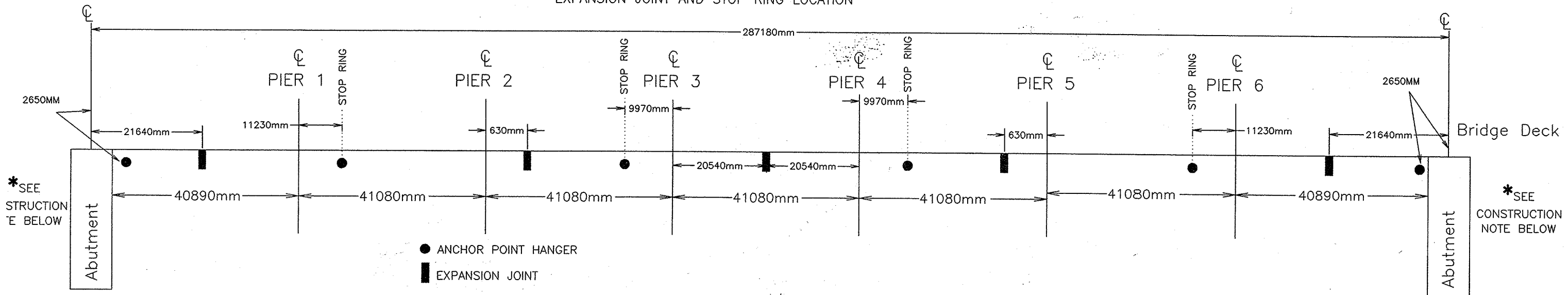


UTILITY DETAILS

| NO. | DATE | REVISION | BY |
|---|----------------|---------------|---------------|
| DATA-TEL COMMUNICATION SERVICES 1241 BELLEVUE ST. GREEN BAY, WI 54302 | | | |
| STRUCTURE B-44-187 | | | |
| LOCATION OF JOB: | | | |
| COUNTY: | | VILLAGE: | |
| DESIGN SPEC.: | | LOAD: | CONST. SPEC.: |
| DESIGNED BY: TAF | DESIGNED CK'D: | DRAWN BY: LAH | PLANS CK'D: |
| APPROVED CHIEF STRUCTURAL DESIGN ENGINEER | | | DATE |
| AMERITECH / TIME WARNER BRIDGE DUCT WORK ASSEMBLY INSERT AND HANGER LOCATION | | | SHEET OF 213 |
| EXAMPLE SHEET B | | | DATE: |

COUNTY: OUTAGAMIE STATE PROJECT NO: 4676-03-71

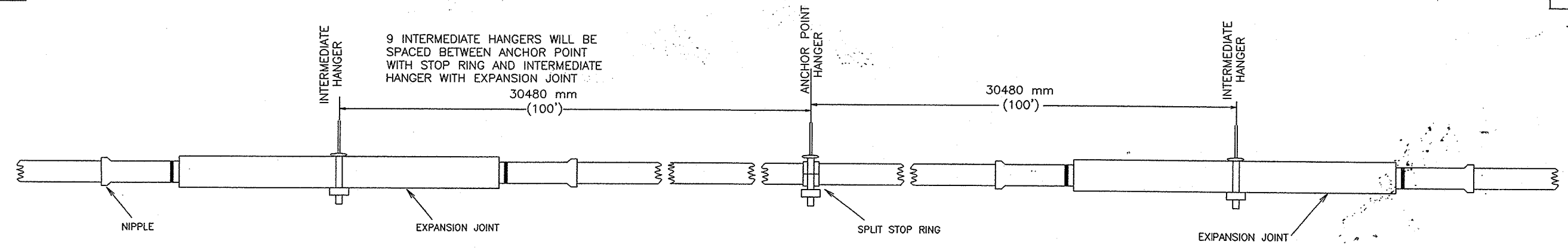
EXPANSION JOINT AND STOP RING LOCATION



*SEE
CONSTRUCTION
NOTE BELOW

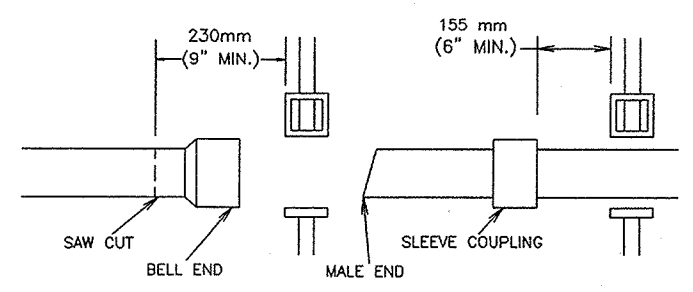
*SEE
CONSTRUCTION
NOTE BELOW

● ANCHOR POINT HANGER
■ EXPANSION JOINT

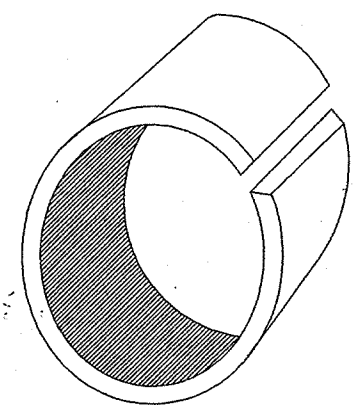
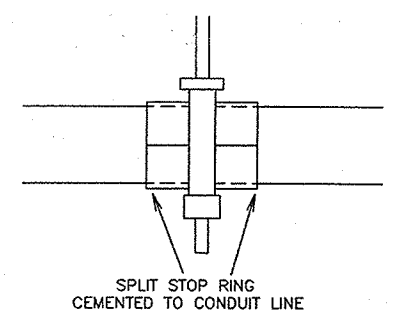


9 INTERMEDIATE HANGERS WILL BE SPACED BETWEEN ANCHOR POINT HANGER WITH STOP RING AND INTERMEDIATE HANGER WITH EXPANSION JOINT

CLEARANCES FOR SLEEVE COUPLINGS AND BELL ENDS



STOP RING PLACEMENT AT ANCHOR POINT HANGERS



SPLIT STOP RING

| UTILITY DETAILS | | | |
|---|----------------|---------------|---------------|
| NO. | DATE | REVISION | BY |
| DATA-TEL COMMUNICATION SERVICES 1241 BELLEVUE ST. GREEN BAY, WI 54302 | | | |
| STRUCTURE B-44-187 | | | |
| LOCATION OF JOB: | | | |
| COUNTY: | | VILLAGE: | |
| DESIGN SPEC.: | | LOAD: | CONST. SPEC.: |
| DESIGNED BY: TAF | DESIGNED CK'D: | DRAWN BY: LAH | PLANS CK'D: |
| APPROVED _____ | | | |
| CHIEF STRUCTURAL DESIGN ENGINEER | | | DATE |
| AMERITECH / TIME WARNER BRIDGE DUCT WORK ASSEMBLY EXPANSION JOINT & STOP RING PLACEMENT | | | SHEET OF 2.14 |
| EXAMPLE SHEET C | | | DATE: |

*Note: Extend ducts 610mm (2') beyond abutment wall and seal conduit ends with duct tape or equivalent to prevent debris and water to enter the ducts. See utility conduit construction methods.

COUNTY: OUTAGAME STATE PROJECT NO: 4676-03-71

PEN TABLE = #plot72\ioser\mv80pp.tbl
 DATE OF PLOT = 04/21/99
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 DESIGN FILE IS I:\440216\1\440216\traffic.dgn
 PLOT NAME: SCALE:
 DATE: 12-21-98
 FILE NAME:
 PROJECT NO. 440216
 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

LEGEND

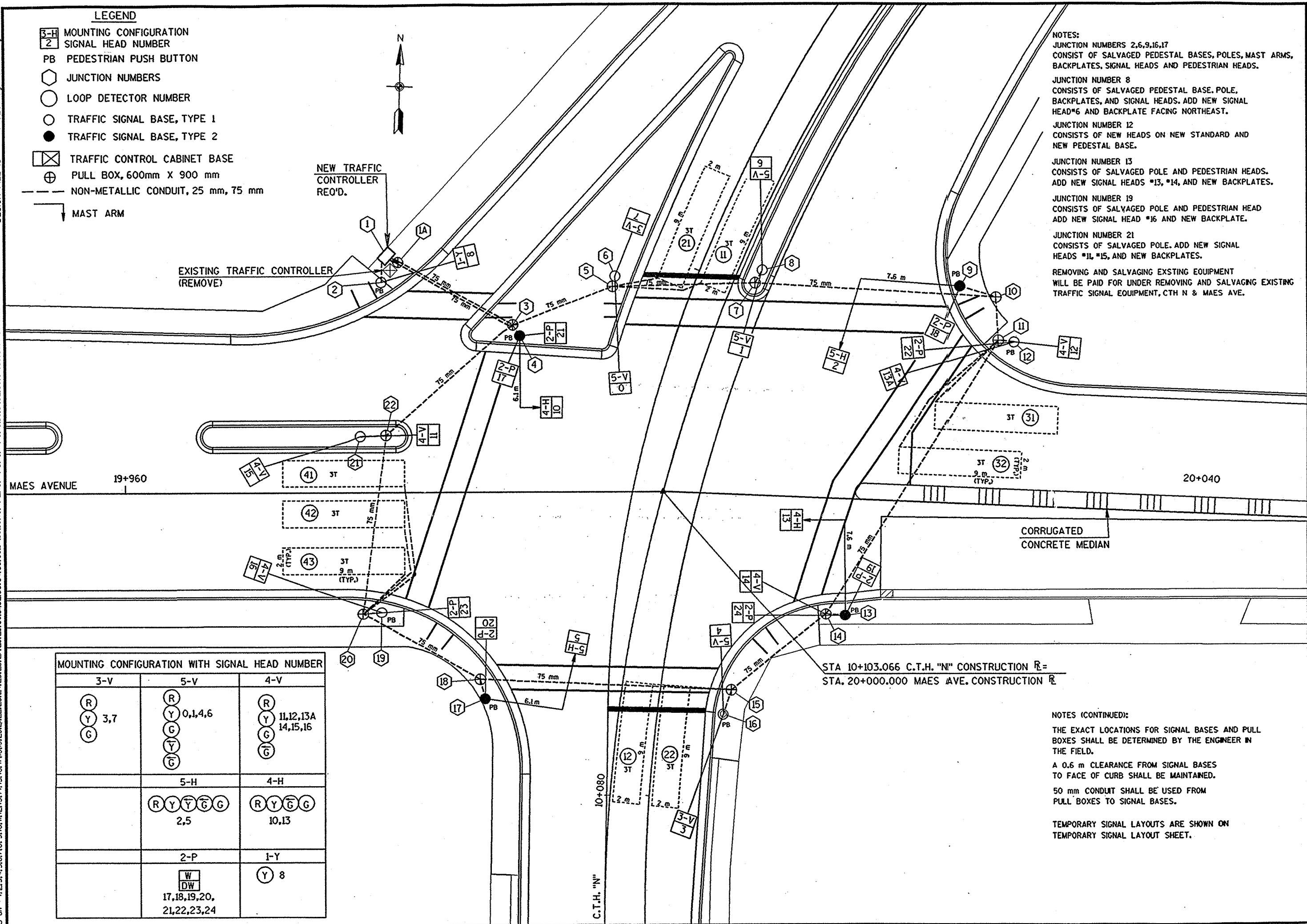
- 3-H MOUNTING CONFIGURATION
- 2 SIGNAL HEAD NUMBER
- PB PEDESTRIAN PUSH BUTTON
- JUNCTION NUMBERS
- LOOP DETECTOR NUMBER
- TRAFFIC SIGNAL BASE, TYPE 1
- TRAFFIC SIGNAL BASE, TYPE 2
- ⊗ TRAFFIC CONTROL CABINET BASE
- ⊕ PULL BOX, 600mm X 900 mm
- NON-METALLIC CONDUIT, 25 mm, 75 mm
- └ MAST ARM



NEW TRAFFIC CONTROLLER REQ'D.

EXISTING TRAFFIC CONTROLLER (REMOVE)

NOTES:
 JUNCTION NUMBERS 2,6,9,16,17
 CONSIST OF SALVAGED PEDESTAL BASES, POLES, MAST ARMS, BACKPLATES, SIGNAL HEADS AND PEDESTRIAN HEADS.
 JUNCTION NUMBER 8
 CONSISTS OF SALVAGED PEDESTAL BASE, POLE, BACKPLATES, AND SIGNAL HEADS. ADD NEW SIGNAL HEAD #6 AND BACKPLATE FACING NORTHEAST.
 JUNCTION NUMBER 12
 CONSISTS OF NEW HEADS ON NEW STANDARD AND NEW PEDESTAL BASE.
 JUNCTION NUMBER 13
 CONSISTS OF SALVAGED POLE AND PEDESTRIAN HEADS. ADD NEW SIGNAL HEADS #13, #14, AND NEW BACKPLATES.
 JUNCTION NUMBER 19
 CONSISTS OF SALVAGED POLE AND PEDESTRIAN HEAD ADD NEW SIGNAL HEAD #16 AND NEW BACKPLATE.
 JUNCTION NUMBER 21
 CONSISTS OF SALVAGED POLE. ADD NEW SIGNAL HEADS #11, #15, AND NEW BACKPLATES.
 REMOVING AND SALVAGING EXISTING EQUIPMENT WILL BE PAID FOR UNDER REMOVING AND SALVAGING EXISTING TRAFFIC SIGNAL EQUIPMENT, CTH N & MAES AVE.

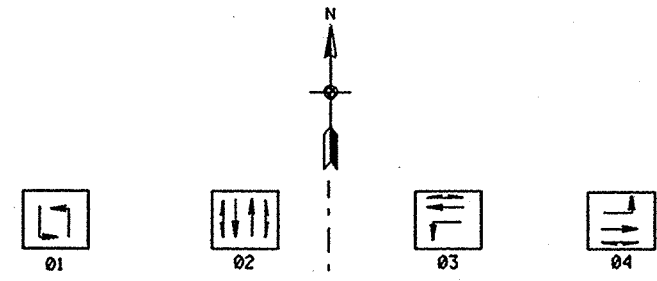


| MOUNTING CONFIGURATION WITH SIGNAL HEAD NUMBER | | |
|--|---|---|
| 3-V | 5-V | 4-V |
| (R) (Y) 3,7 (G) | (R) (Y) 0,1,4,6 (G) (Y) (G) | (R) (Y) 11,12,13A (G) 14,15,16 (G) |
| | 5-H (R) (Y) (Y) (G) (G) 2,5 | 4-H (R) (Y) (G) (G) 10,13 |
| | 2-P (W) (DW) 17,18,19,20, 21,22,23,24 | 1-Y (Y) 8 |

STA 10+103.066 C.T.H. "N" CONSTRUCTION R=
 STA. 20+000.000 MAES AVE. CONSTRUCTION R

NOTES (CONTINUED):
 THE EXACT LOCATIONS FOR SIGNAL BASES AND PULL BOXES SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.
 A 0.6 m CLEARANCE FROM SIGNAL BASES TO FACE OF CURB SHALL BE MAINTAINED.
 50 mm CONDUIT SHALL BE USED FROM PULL BOXES TO SIGNAL BASES.
 TEMPORARY SIGNAL LAYOUTS ARE SHOWN ON TEMPORARY SIGNAL LAYOUT SHEET.

GB 2
 PEN TABLE = #DLOT72+loser+mv80pp.tbl
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 PLOT NA
 DESIGN FILE IS I:\440261\DCN\sigset1.dgn
 FILE NAME:
 SCALE:
 DATE:
 PLOT NAME:
 PROJECT NO:
 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
 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



SEQUENCE OF OPERATION

| HEAD NO. | 01 CLEAR TO | | 02 CLEAR TO | | 03 CLEAR TO | | 04 CLEAR TO | |
|----------|-----------------|----------|-------------|----------|-------------|----------|-------------|-------|
| | R/W | ** | R/W | ** | R/W | ** | R/W | ** |
| 01 | 0,1,2,4,5,6 | G Y - | - - - | - - - | R R R | - - - | - - - | - - - |
| 02 | 0,1,2,3,4,5,6,7 | R R R | G Y R | - - - | R R R | - - - | R R R | - - - |
| 03 | 10,11,12 | R R R | R R R | G Y R | R R R | - - - | R R R | - - - |
| 04 | 13,13A,14,15,16 | R R R | R R R | R R R | R R R | G G Y R | - - - | - - - |
| 02P | 17,18,19,20 | DW DW DW | * DW DW | DW DW DW | DW DW DW | DW DW DW | DW DW DW | - - - |
| 03P | 21,22 | DW DW DW | DW DW DW | * DW DW | DW DW DW | DW DW DW | DW DW DW | - - - |
| 04P | 23,24 | DW DW DW | DW DW DW | DW DW DW | DW DW DW | * DW DW | DW DW DW | - - - |

| |
|-------|
| FLASH |
| R |
| R |
| R |
| - |
| - |
| - |

| HEAD NO. | 05 CLEAR TO | | 06 CLEAR TO | | 07 CLEAR TO | | 08 CLEAR TO | |
|----------|-------------|----|-------------|----|-------------|----|-------------|----|
| | R/W | ** | R/W | ** | R/W | ** | R/W | ** |
| 01 | | | | | | | | |
| 02 | | | | | | | | |
| 03 | | | | | | | | |
| 04 | | | | | | | | |
| 05 | | | | | | | | |
| 06 | | | | | | | | |
| 07 | | | | | | | | |
| 08 | | | | | | | | |
| 02P | | | | | | | | |
| 04P | | | | | | | | |
| 06P | | | | | | | | |
| 08P | | | | | | | | |

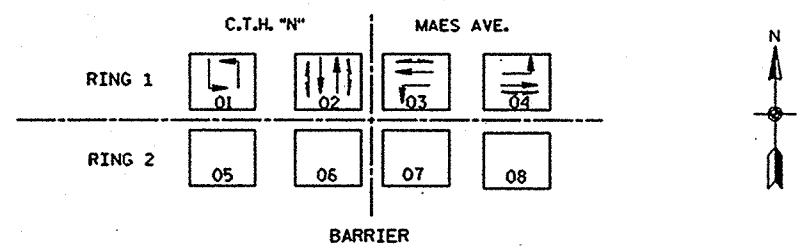
** CLEARANCE TO A PHASE IN CONFLICT WITH THIS PHASE ON (SEE CHART 1 BELOW)
 • WHEN CALLED, TIMED A STEADY WALK, THEN FLASHING DON'T WALK, THEN GOES TO STEADY DON'T WALK

CHART 1

| PHASE ON | NON-CONFLICTING PHASE ALLOWED TO TIME CONCURRENTLY | PHASES IN CONFLICT WITH PHASE ON |
|----------|--|----------------------------------|
| 01 | NONE | 2,3,4 |
| 02 | NONE | 1,3,4 |
| 03 | NONE | 1,2,4 |
| 04 | NONE | 2,3,4 |

DETECTOR LOGIC

| DETECTOR NUMBER | AMPLIFIER CHANNEL NUMBER | DETECTOR OPERATION | | | PHASE CALLED | PHASE EXTENDED | DETECTOR DISCONNECT | CALLING DELAY | EXTENSION STRETCH | LOOP SIZE (m) | TURNS |
|-----------------|--------------------------|--------------------|------------|--------------|--------------|----------------|---------------------|---------------|-------------------|---------------|-------|
| | | CALLS AND EXTENDS | CALLS ONLY | EXTENDS ONLY | | | | | | | |
| 11 | 1 | X | | | 1 | 1 | | | | 2x9 | 3 |
| 12 | 1 | X | | | 1 | 1 | X | | | 2x9 | 3 |
| 21 | 2 | X | | | 2 | 2 | | | | 2x9 | 3 |
| 22 | 2 | X | | | 2 | 2 | X | | | 2x9 | 3 |
| 31 | 3 | X | | | 3 | 3 | | | | 2x9 | 3 |
| 32 | 3 | X | | | 3 | 3 | | | | 2x9 | 3 |
| 41 | 4 | X | | | 4 | 4 | | | | 2x9 | 3 |
| 42 | 4 | X | | | 4 | 4 | | | | 2x9 | 3 |
| 43 | 4 | X | | | 4 | 4 | | | | 2x9 | 3 |



| TYPE OF INTERCONNECT | |
|----------------------|---|
| NONE | |
| TBC | X |
| CLOSED LOOP | |
| HARDWIRE | |
| WIRE (FREQ.) | |

| TYPE OF PRE-EMPT | |
|-------------------|---|
| NONE | X |
| RAILROAD | |
| EMERGENCY VEHICLE | |

| TYPE OF LIGHTING | |
|-----------------------------|---|
| NONE | X |
| IN TRAFFIC CONTROL CABINET | |
| IN SEPARATE CONTROL CABINET | |

| CONTROLLER LOGIC | | | |
|------------------|---------------|----------------|--------------|
| PHASE NUMBER | PHASE LOCKING | DUAL ENTRY W/D | PHASE RECALL |
| 1 | | | |
| 2 | | | |
| 3 | | | |
| 4 | | | |

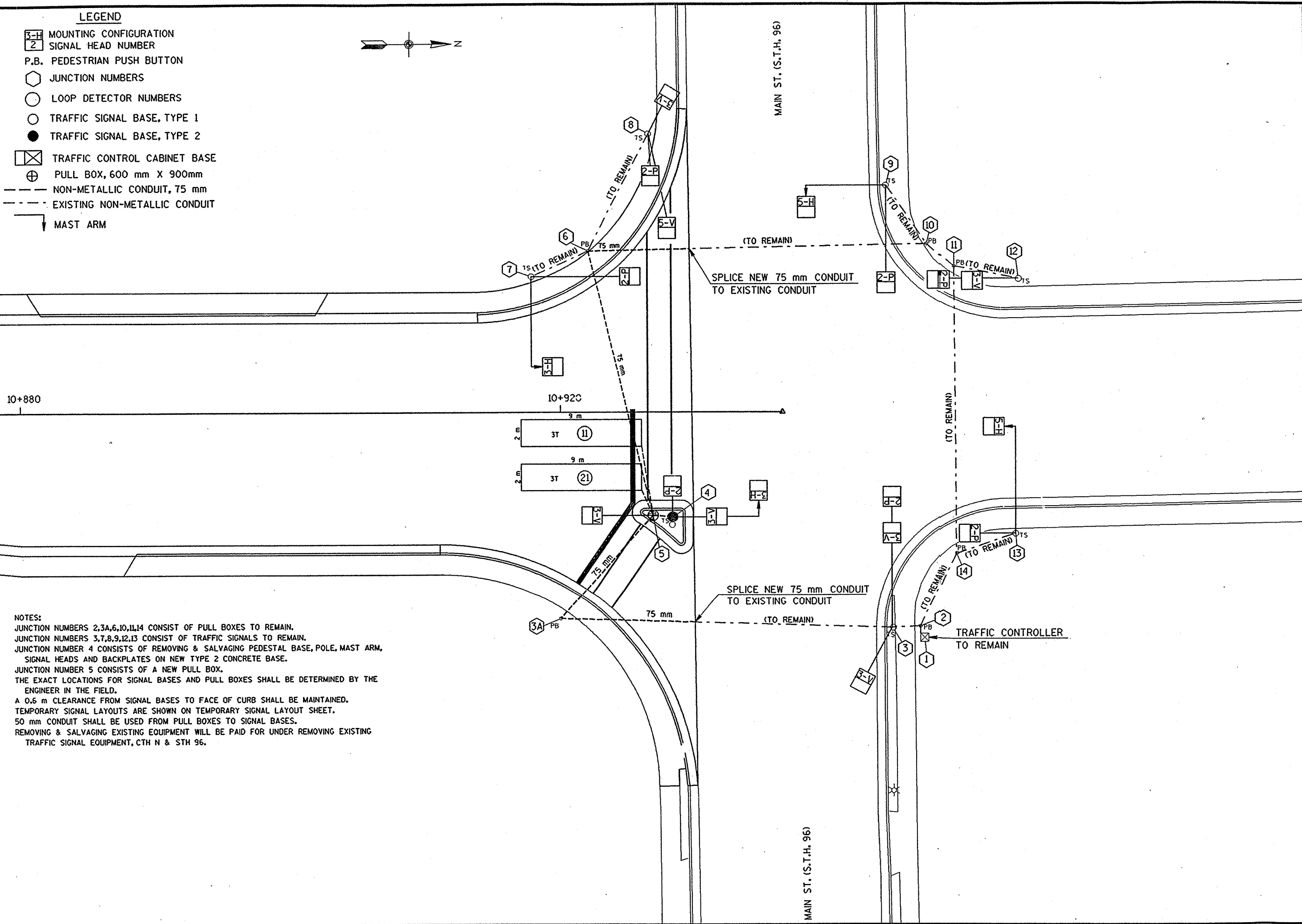
NOTES:

1. ANY ACTUATED PHASE FOR WHICH THERE IS NO CALL SHALL BE SKIPPED.
2. WHEN ONE PHASE IS ON ALONE, ANY NON-CONFLICTING PHASE MAY START TIMING CONCURRENTLY WITHOUT A CLEARANCE INTERVAL. (SEE CHART 1 AT LEFT.)
3. PROVIDE FOR HAND CONTROL OPERATION.

ORIGINATOR: **WDL**
 PROJECT NO.
 DATE: **03/19/99**
 FILE NAME:
 PLOT NAME:
 SCALE:
 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
 PEN TABLE = #plot721aser+mv80pp.tbl
 DATE OF PLOT = 03/19/99
 PLOT NA
 DESIGN FILE IS I:\440261\dgn\traffic1.dgn

LEGEND

- MOUNTING CONFIGURATION
- SIGNAL HEAD NUMBER
- P.B. PEDESTRIAN PUSH BUTTON
- JUNCTION NUMBERS
- LOOP DETECTOR NUMBERS
- TRAFFIC SIGNAL BASE, TYPE 1
- TRAFFIC SIGNAL BASE, TYPE 2
- TRAFFIC CONTROL CABINET BASE
- PULL BOX, 600 mm X 900mm
- NON-METALLIC CONDUIT, 75 mm
- EXISTING NON-METALLIC CONDUIT
- MAST ARM



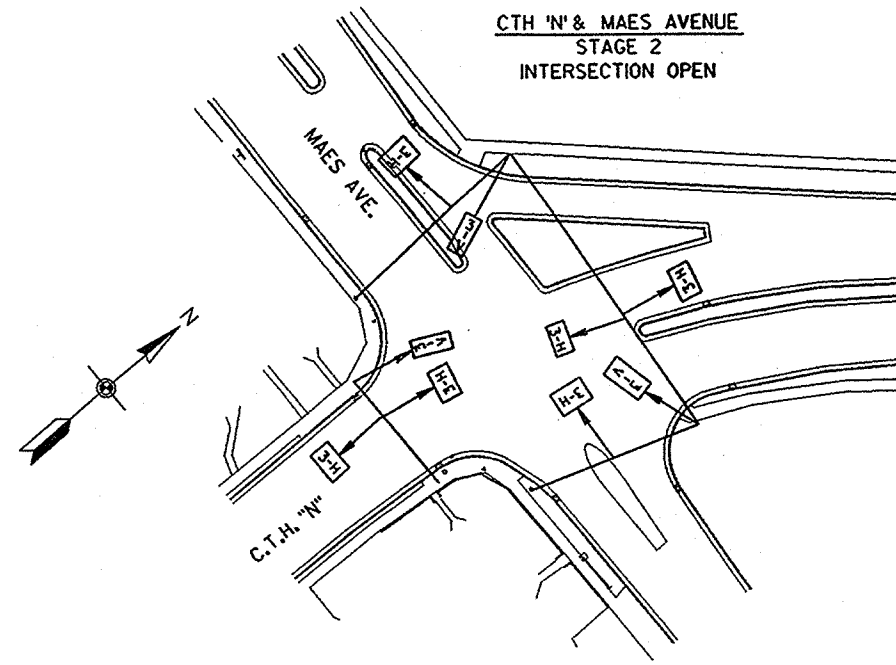
NOTES:
 JUNCTION NUMBERS 2,3A,6,10,11,14 CONSIST OF PULL BOXES TO REMAIN.
 JUNCTION NUMBERS 3,7,8,9,12,13 CONSIST OF TRAFFIC SIGNALS TO REMAIN.
 JUNCTION NUMBER 4 CONSISTS OF REMOVING & SALVAGING PEDESTAL BASE, POLE, MAST ARM, SIGNAL HEADS AND BACKPLATES ON NEW TYPE 2 CONCRETE BASE.
 JUNCTION NUMBER 5 CONSISTS OF A NEW PULL BOX.
 THE EXACT LOCATIONS FOR SIGNAL BASES AND PULL BOXES SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.
 A 0.6 m CLEARANCE FROM SIGNAL BASES TO FACE OF CURB SHALL BE MAINTAINED.
 TEMPORARY SIGNAL LAYOUTS ARE SHOWN ON TEMPORARY SIGNAL LAYOUT SHEET.
 50 mm CONDUIT SHALL BE USED FROM PULL BOXES TO SIGNAL BASES.
 REMOVING & SALVAGING EXISTING EQUIPMENT WILL BE PAID FOR UNDER REMOVING EXISTING TRAFFIC SIGNAL EQUIPMENT, CTH N & STH 96.

GB2
 PEN TABLE = #plot72\loser\mv80pp.tbl
 DATE OF PLOT = 03/19/99
 PLOT NA
 DESIGN FILE IS I:\440261\qgn\TRAFFIC2.DGN

ORIGINATOR: DJD
 PROJECT NO. 44026100
 REVISION BY:
 DATE REVISION:
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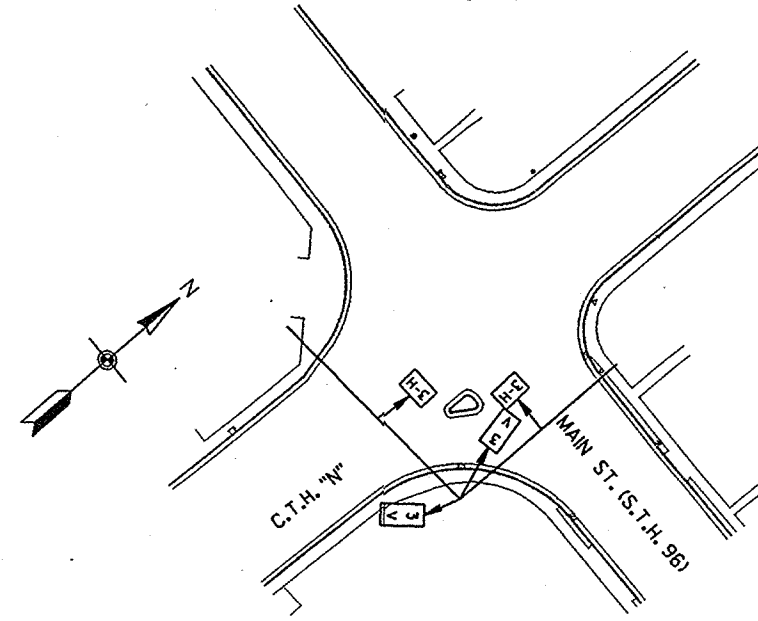
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DATE: 3/1/99
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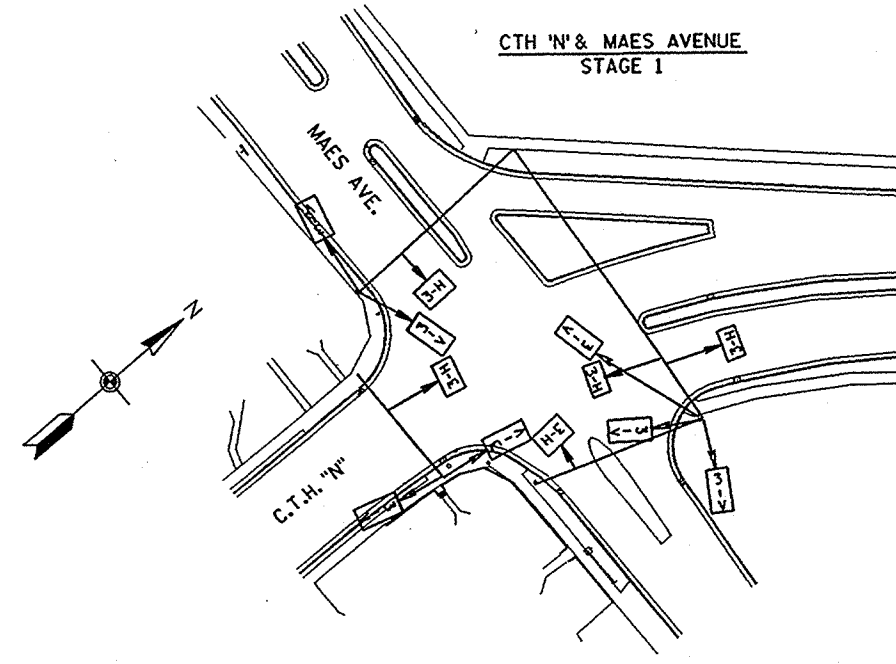


| | CTH N | MAES AVE. |
|---|---------|-----------|
| | | |
| | Ø1 | Ø2 |
| G | 27 SEC. | 23 SEC. |
| Y | 4 SEC | 4 SEC |
| R | 1 SEC | 1 SEC |

CTH 'N' & MAIN STREET (STH 96)
 STAGE 1



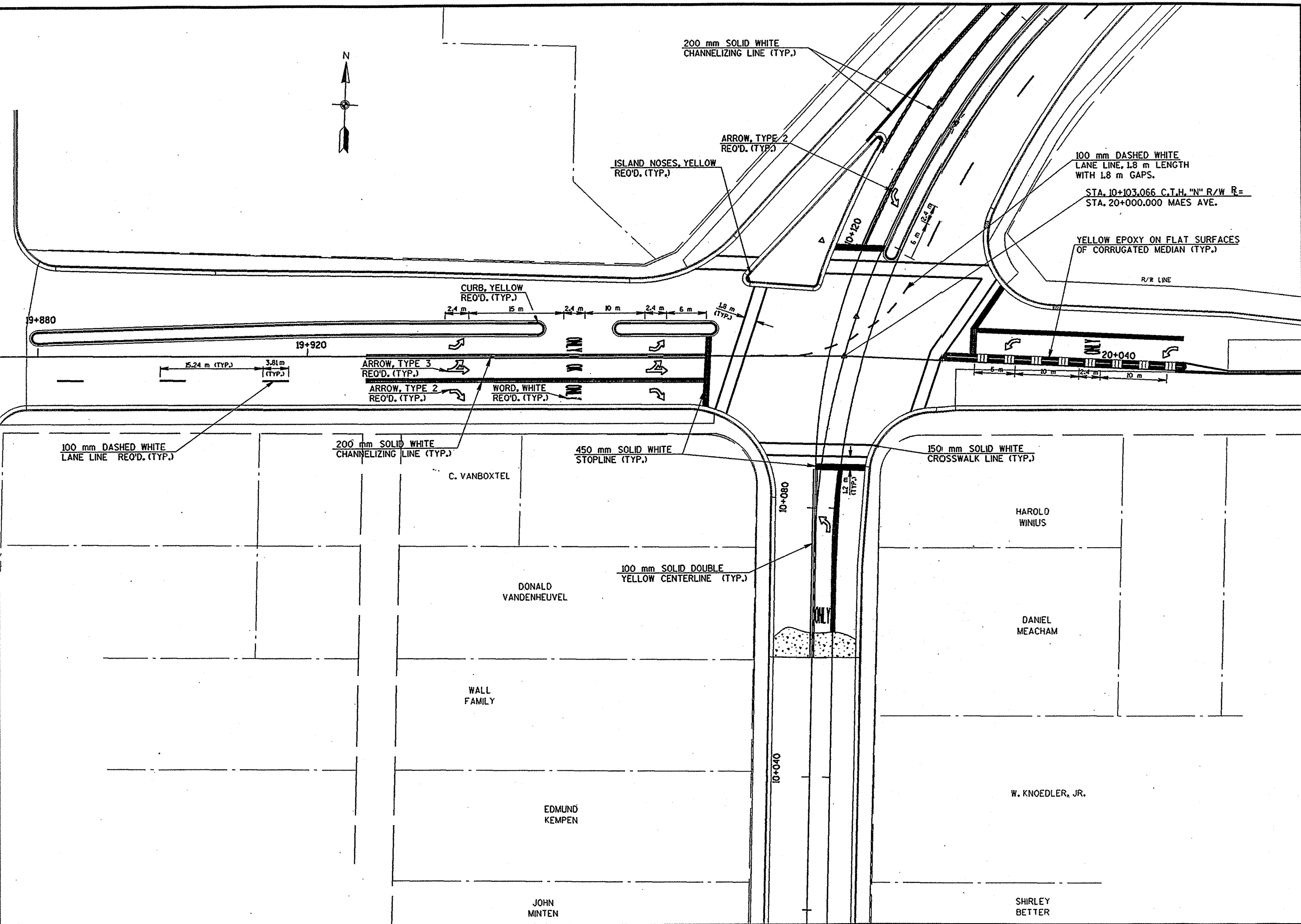
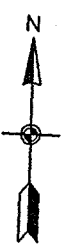
| | CTH N | MAIN ST. | MAIN ST. |
|---|---------|----------|----------|
| | | | |
| | Ø1 | Ø2 | Ø3 |
| G | 20 SEC. | 13 SEC. | 16 SEC. |
| Y | 3 SEC | 3 SEC | 3 SEC |
| R | 1 SEC | 1 SEC | 1 SEC |



| | CTH N | MAES AVE. |
|---|---------|-----------|
| | | |
| | Ø1 | Ø2 |
| G | 27 SEC. | 23 SEC. |
| Y | 4 SEC | 4 SEC |
| R | 1 SEC | 1 SEC |

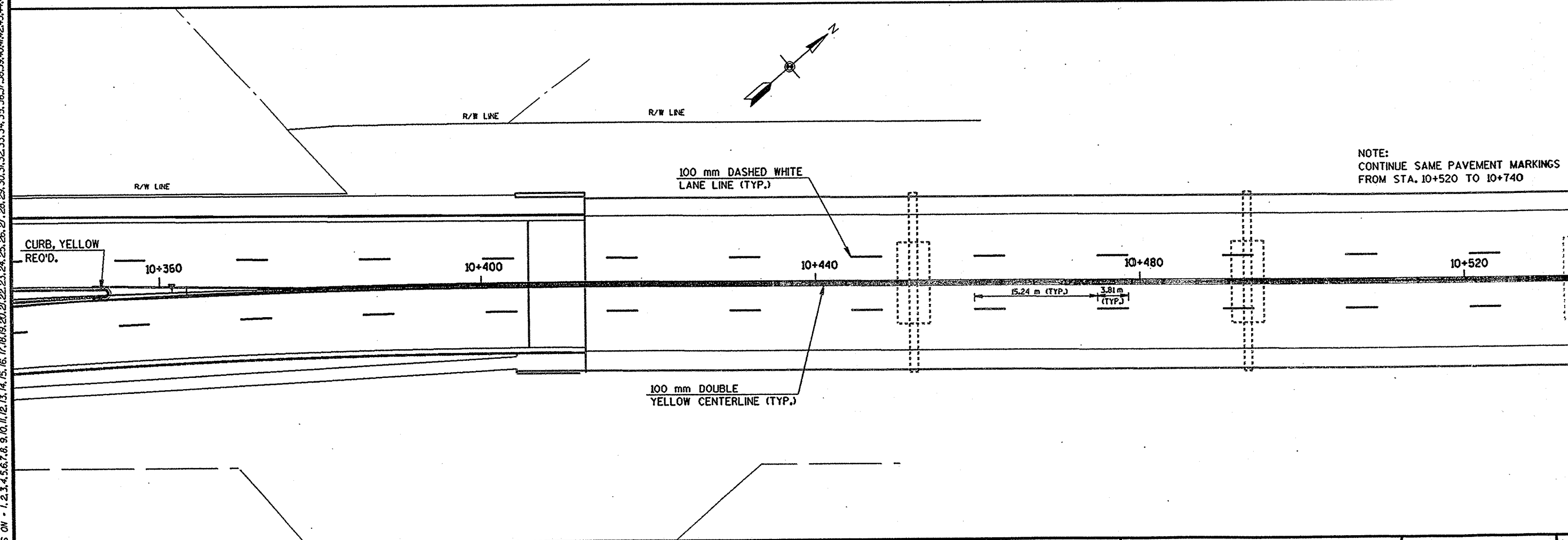
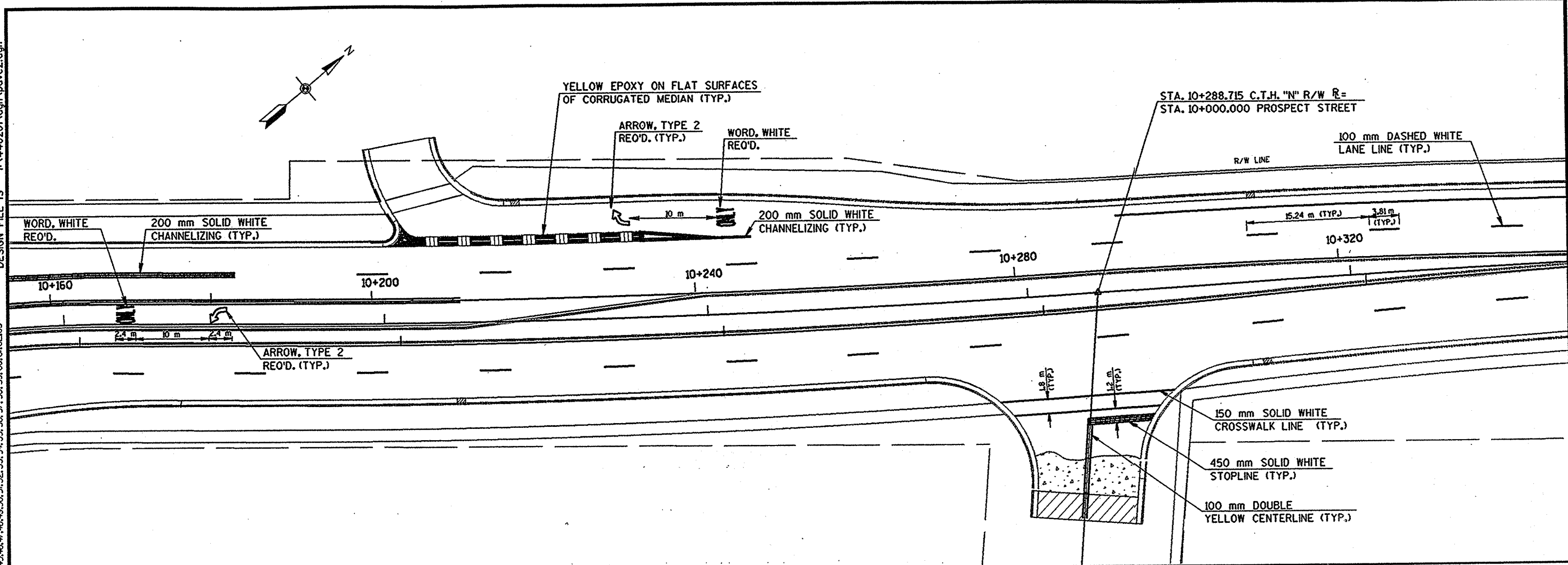
GENERAL NOTES FOR TEMPORARY SIGNALS
 1. TEMPORARY SIGNALS SHALL INCLUDE MODIFICATIONS TO PEDESTRIAN FACES TO ACCOMMODATE PEDESTRIAN TRAVEL.
 2. EXISTING SIGNALS IN CONFLICT OR NOT IN USE WITH TEMPORARY SIGNALS SHALL BE BAGGED TO AVOID CONFUSION TO TRAFFIC FLOW.

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 PLOT NA
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 DATE: 5/6/99
 FILE NAME: PAVELDGN
 SCALE:
 PROJECT NO. 44-0261
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WISDOT MS-T42

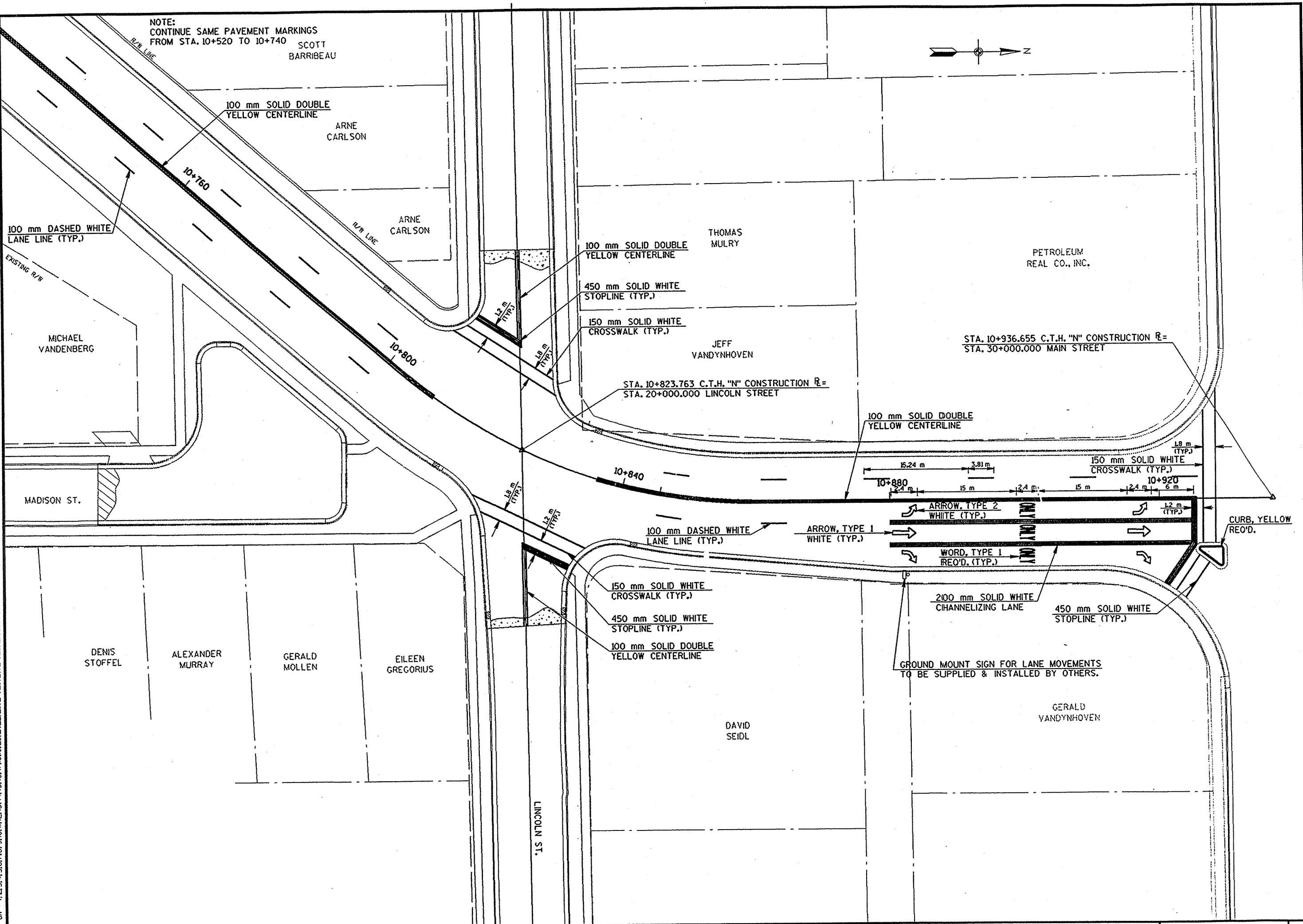
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 SCALE:
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NOTE:
 CONTINUE SAME PAVEMENT MARKINGS
 FROM STA. 10+520 TO 10+740

GB 2
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 DATE: 12-18-98
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 PLOT NAME:
 SCALE:

NOTE:
 CONTINUE SAME PAVEMENT MARKINGS
 FROM STA. 10+520 TO 10+740
 SCOTT
 BARRIBEAU



PAVEMENT MARKING

SCALE, METERS

HWY: C.T.H. "N"

COUNTY: OUTAGAMIE

STATE PROJECT NO: 4676-03-71

SHEET NO: 2.2/

M

WADO 206

GB 2
 PEN TABLE = #plot724user#mv80pp.tbl
 DATE OF PLOT = 02/26/99
 PLOT NA
 DESIGN FILE IS I:\440261\dgn\trf.dgn


59.
 50.51.52.


FILE NAME:
 SCALE:


DATE:
 PLOT NAME:


ORIGINATOR: DJD
 PROJECT NO:
 LEVELS ON

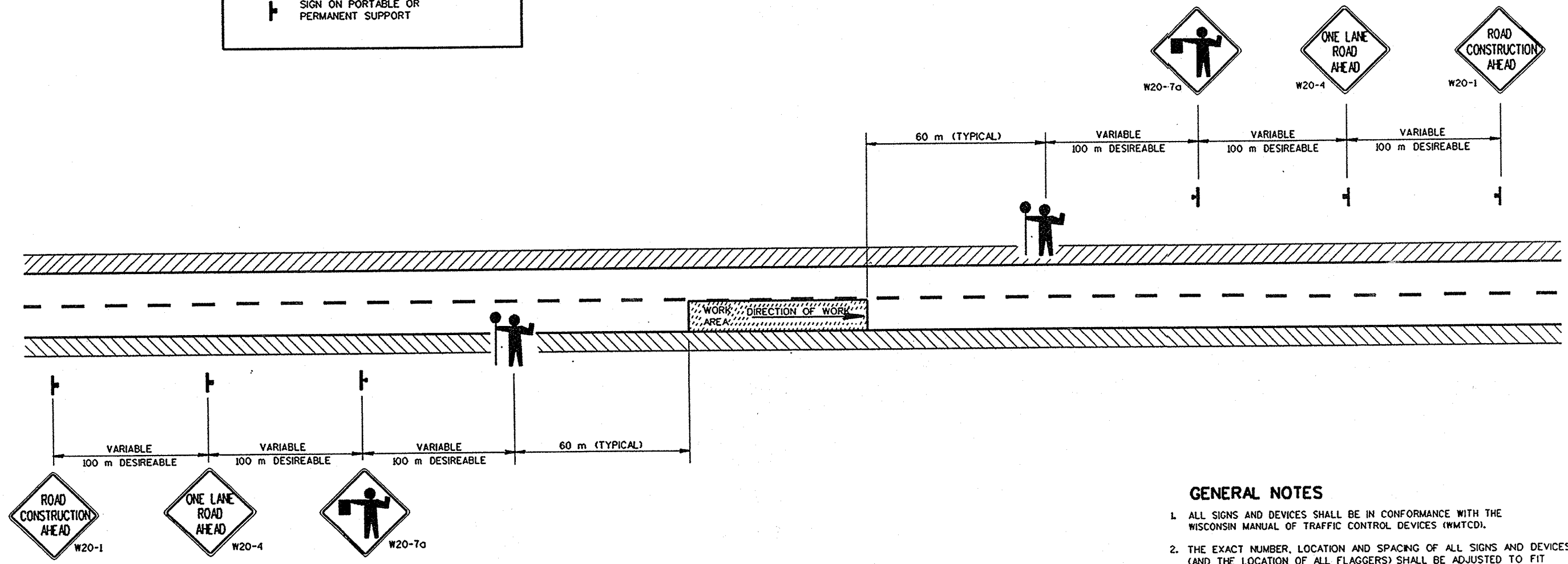
SYMBOLS

 WORK AREA

 FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

 SIGN ON SUPPORT STAFF

 SIGN ON PORTABLE OR PERMANENT SUPPORT



GENERAL NOTES

1. ALL SIGNS AND DEVICES SHALL BE IN CONFORMANCE WITH THE WISCONSIN MANUAL OF TRAFFIC CONTROL DEVICES (WMTCD).
2. 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.
3. 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.
4. 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 CONSTRUCTION AHEAD" AND THE ONE LANE ROAD AHEAD" SIGNS SHALL BE COVERED OR REMOVED AND THE FACILITY RESTORED TO NORMAL OPERATION.

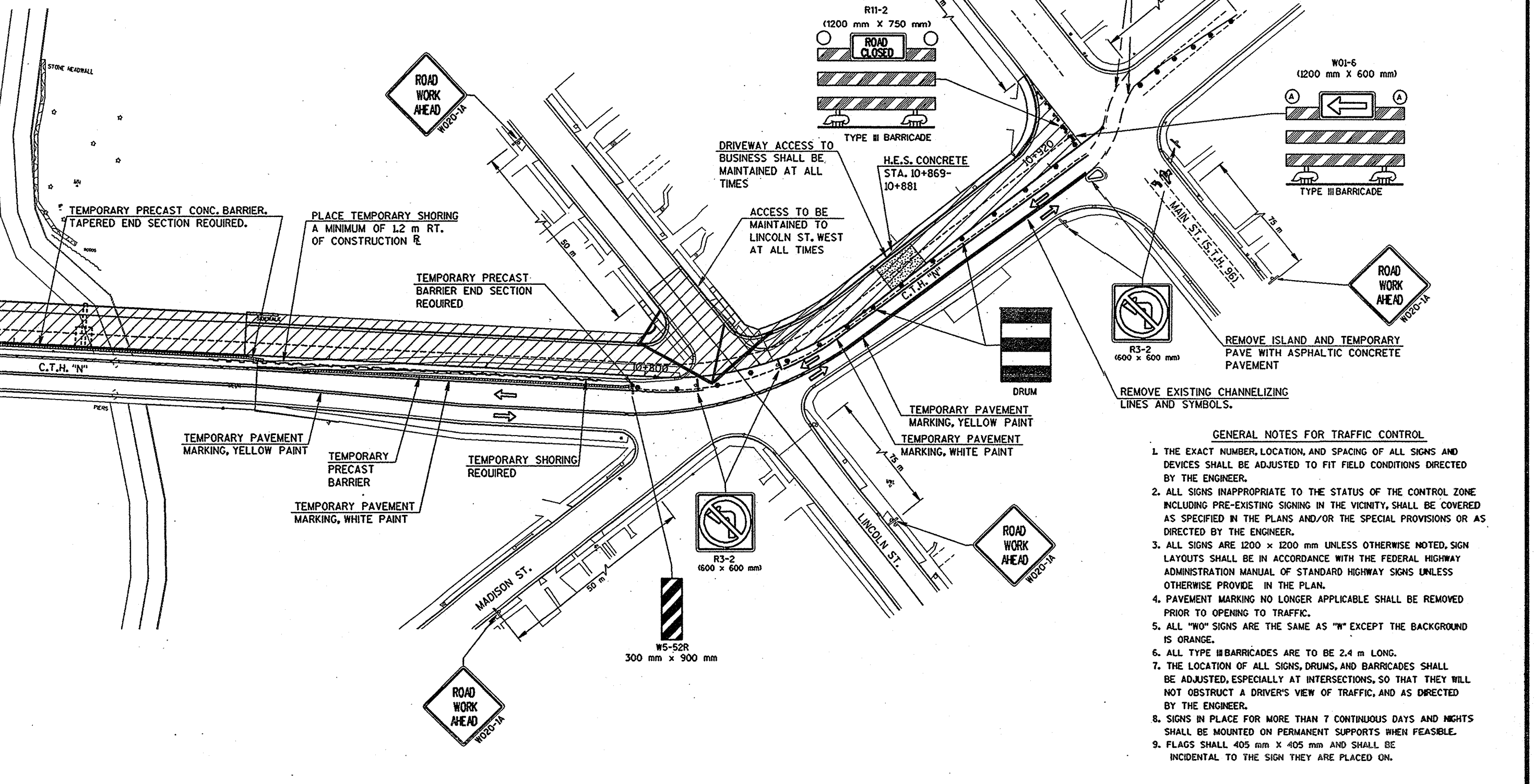
W10DC = 13-2-99

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 DATE REVISIONS: [blank]
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 FILE NAME: [blank]
 PEN TABLE: splot72laser-smv80pp.tbl
 DATE OF PLOT: 04/22/99
 PLOT NA: [blank]
 DESIGN FILE IS: I:\440261\dgn\traf1.dgn

SYMBOLS

- STAGE CONSTRUCTION AREA
- TRAFFIC DIRECTION
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- TYPE 3 BARRICADE WITH SIGN ATTACHED
- NON-METALLIC DRUMS, SPACED AT 10 m TYPICAL
- WARNING LIGHT, TYPE A
- NON-METALLIC DRUMS WITH TYPE "C" STEADY BURN LIGHTS, SPACED AT 10 m TYPICAL

STAGE CONSTRUCTION AREA SHOWN FROM STA. 10+635 TO STA. 10+810 ON C.T.H. "N" IS FOR BRIDGE AND ROADWAY CONSTRUCTION BEGINNING IN FALL OF 1999.
 STAGE CONSTRUCTION AREA SHOWN FROM STA. 10+810 TO STA. 10+930 ON C.T.H. "N" IS FOR ROADWAY CONSTRUCTION BEGINNING IN SPRING OF 2000.



- GENERAL NOTES FOR TRAFFIC CONTROL**
1. THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS DIRECTED BY THE ENGINEER.
 2. ALL SIGNS INAPPROPRIATE TO THE STATUS OF THE CONTROL ZONE INCLUDING PRE-EXISTING SIGNING IN THE VICINITY, SHALL BE COVERED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS DIRECTED BY THE ENGINEER.
 3. ALL SIGNS ARE 1200 x 1200 mm UNLESS OTHERWISE NOTED, SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FEDERAL HIGHWAY ADMINISTRATION MANUAL OF STANDARD HIGHWAY SIGNS UNLESS OTHERWISE PROVIDED IN THE PLAN.
 4. PAVEMENT MARKING NO LONGER APPLICABLE SHALL BE REMOVED PRIOR TO OPENING TO TRAFFIC.
 5. ALL "W0" SIGNS ARE THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.
 6. ALL TYPE II BARRICADES ARE TO BE 2.4 m LONG.
 7. THE LOCATION OF ALL SIGNS, DRUMS, AND BARRICADES SHALL BE ADJUSTED, ESPECIALLY AT INTERSECTIONS, SO THAT THEY WILL NOT OBSTRUCT A DRIVER'S VIEW OF TRAFFIC, AND AS DIRECTED BY THE ENGINEER.
 8. SIGNS IN PLACE FOR MORE THAN 7 CONTINUOUS DAYS AND NIGHTS SHALL BE MOUNTED ON PERMANENT SUPPORTS WHEN FEASIBLE.
 9. FLAGS SHALL 405 mm x 405 mm AND SHALL BE INCIDENTAL TO THE SIGN THEY ARE PLACED ON.

WISDOT MS-T42

GZ TABLE # 41017210aeer-sm80pp.tbl
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 ORIGINAL: DJD DATE: 5/5/99
 PROJECT NO: 4602600
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 DATE REVISED: 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.

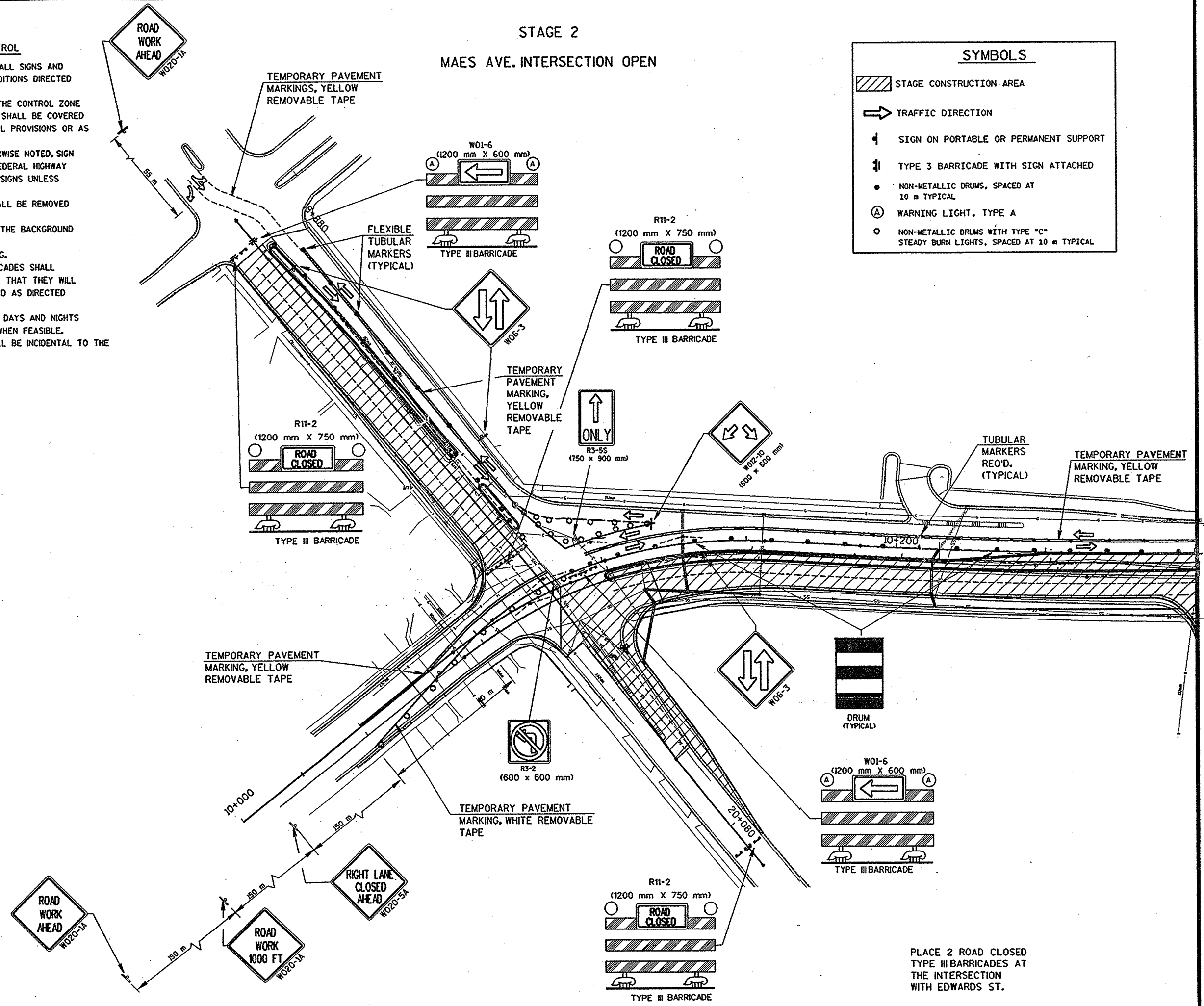
GENERAL NOTES FOR TRAFFIC CONTROL

1. THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS DIRECTED BY THE ENGINEER.
2. ALL SIGNS INAPPROPRIATE TO THE STATUS OF THE CONTROL ZONE INCLUDING PRE-EXISTING SIGNING IN THE VICINITY, SHALL BE COVERED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS DIRECTED BY THE ENGINEER.
3. ALL SIGNS ARE 1200 x 1200 mm UNLESS OTHERWISE NOTED. SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FEDERAL HIGHWAY ADMINISTRATION MANUAL OF STANDARD HIGHWAY SIGNS UNLESS OTHERWISE PROVIDED IN THE PLAN.
4. PAVEMENT MARKING NO LONGER APPLICABLE SHALL BE REMOVED PRIOR TO OPENING TO TRAFFIC.
5. ALL "WO" SIGNS ARE THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.
6. ALL TYPE III BARRICADES ARE TO BE 2.4 m LONG.
7. THE LOCATION OF ALL SIGNS, DRUMS, AND BARRICADES SHALL BE ADJUSTED, ESPECIALLY AT INTERSECTIONS, SO THAT THEY WILL NOT OBSTRUCT A DRIVER'S VIEW OF TRAFFIC, AND AS DIRECTED BY THE ENGINEER.
8. SIGNS IN PLACE FOR MORE THAN 7 CONTINUOUS DAYS AND NIGHTS SHALL BE MOUNTED ON PERMANENT SUPPORTS WHEN FEASIBLE.
9. FLAGS SHALL BE 405 mm X 405 mm AND SHALL BE INCIDENTAL TO THE SIGN THEY ARE PLACED ON.

**STAGE 2
MAES AVE. INTERSECTION OPEN**

SYMBOLS

- STAGE CONSTRUCTION AREA
- TRAFFIC DIRECTION
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- TYPE III BARRICADE WITH SIGN ATTACHED
- NON-METALLIC DRUMS, SPACED AT 10 m TYPICAL
- WARNING LIGHT, TYPE A
- NON-METALLIC DRUMS WITH TYPE "C" STEADY BURN LIGHTS, SPACED AT 10 m TYPICAL



PLACE 2 ROAD CLOSED TYPE III BARRICADES AT THE INTERSECTION WITH EDWARDS ST.








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 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
 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
 ORIGINAL D.D. DATE: 9/4/99
 PROJECT NO. 440261.00
 REVISION BY
 DATE REVISION
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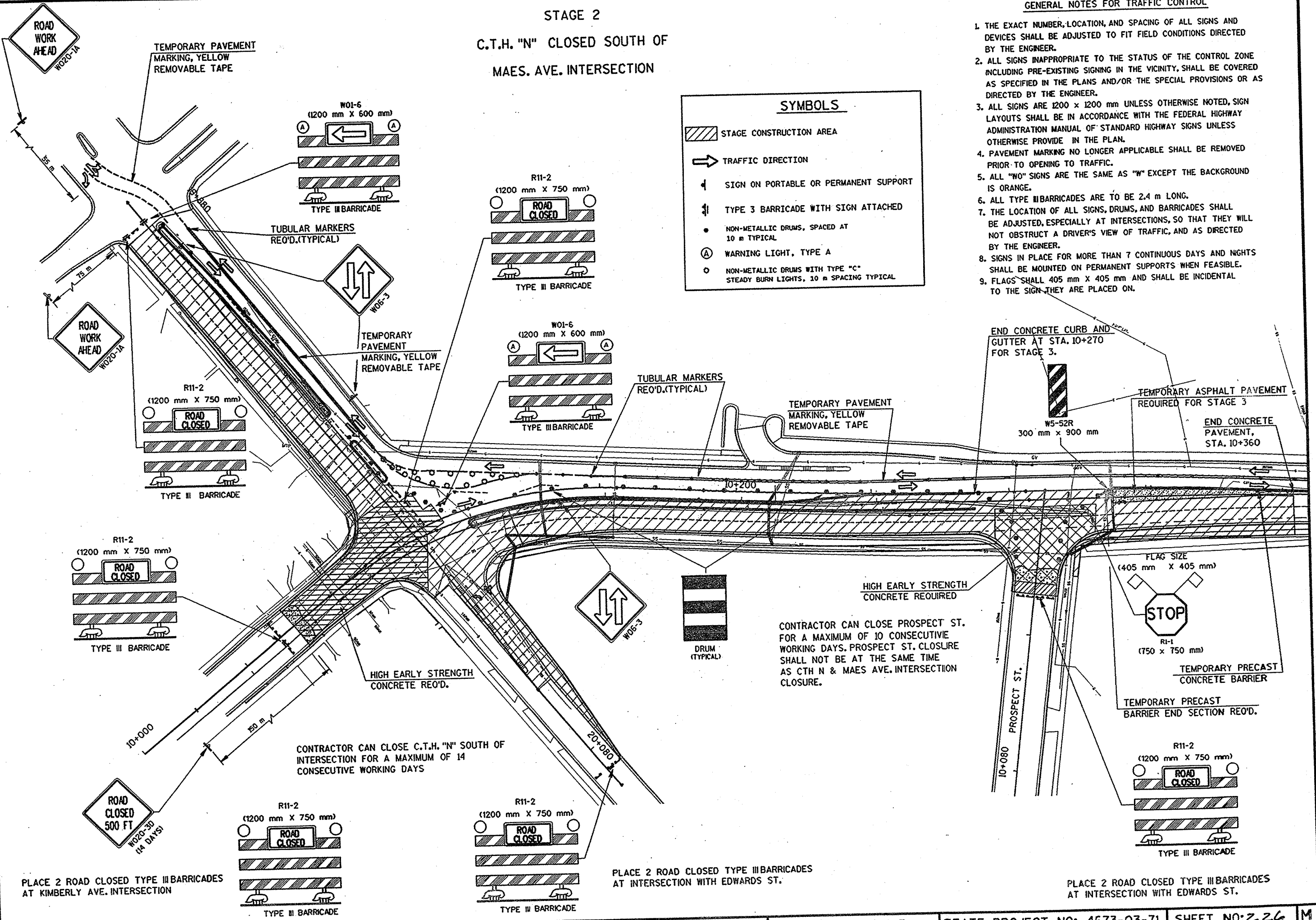
STAGE 2
C.T.H. "N" CLOSED SOUTH OF
MAES. AVE. INTERSECTION

GENERAL NOTES FOR TRAFFIC CONTROL

1. THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS DIRECTED BY THE ENGINEER.
2. ALL SIGNS INAPPROPRIATE TO THE STATUS OF THE CONTROL ZONE INCLUDING PRE-EXISTING SIGNING IN THE VICINITY, SHALL BE COVERED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS DIRECTED BY THE ENGINEER.
3. ALL SIGNS ARE 1200 x 1200 mm UNLESS OTHERWISE NOTED, SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FEDERAL HIGHWAY ADMINISTRATION MANUAL OF STANDARD HIGHWAY SIGNS UNLESS OTHERWISE PROVIDED IN THE PLAN.
4. PAVEMENT MARKING NO LONGER APPLICABLE SHALL BE REMOVED PRIOR TO OPENING TO TRAFFIC.
5. ALL "WO" SIGNS ARE THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.
6. ALL TYPE II BARRICADES ARE TO BE 2.4 m LONG.
7. THE LOCATION OF ALL SIGNS, DRUMS, AND BARRICADES SHALL BE ADJUSTED, ESPECIALLY AT INTERSECTIONS, SO THAT THEY WILL NOT OBSTRUCT A DRIVER'S VIEW OF TRAFFIC, AND AS DIRECTED BY THE ENGINEER.
8. SIGNS IN PLACE FOR MORE THAN 7 CONTINUOUS DAYS AND NIGHTS SHALL BE MOUNTED ON PERMANENT SUPPORTS WHEN FEASIBLE.
9. FLAGS SHALL 405 mm X 405 mm AND SHALL BE INCIDENTAL TO THE SIGN THEY ARE PLACED ON.

SYMBOLS

| | |
|---|---|
|  | STAGE CONSTRUCTION AREA |
|  | TRAFFIC DIRECTION |
|  | SIGN ON PORTABLE OR PERMANENT SUPPORT |
|  | TYPE 3 BARRICADE WITH SIGN ATTACHED |
|  | NON-METALLIC DRUMS, SPACED AT 10 m TYPICAL |
|  | WARNING LIGHT, TYPE A |
|  | NON-METALLIC DRUMS WITH TYPE "C" STEADY BURN LIGHTS, 10 m SPACING TYPICAL |



CONTRACTOR CAN CLOSE PROSPECT ST.
 FOR A MAXIMUM OF 10 CONSECUTIVE
 WORKING DAYS. PROSPECT ST. CLOSURE
 SHALL NOT BE AT THE SAME TIME
 AS CTH N & MAES AVE. INTERSECTION
 CLOSURE.

CONTRACTOR CAN CLOSE C.T.H. "N" SOUTH OF
 INTERSECTION FOR A MAXIMUM OF 14
 CONSECUTIVE WORKING DAYS

PLACE 2 ROAD CLOSED TYPE III BARRICADES
 AT KIMBERLY AVE. INTERSECTION

PLACE 2 ROAD CLOSED TYPE III BARRICADES
 AT INTERSECTION WITH EDWARDS ST.

PLACE 2 ROAD CLOSED TYPE III BARRICADES
 AT INTERSECTION WITH EDWARDS ST.

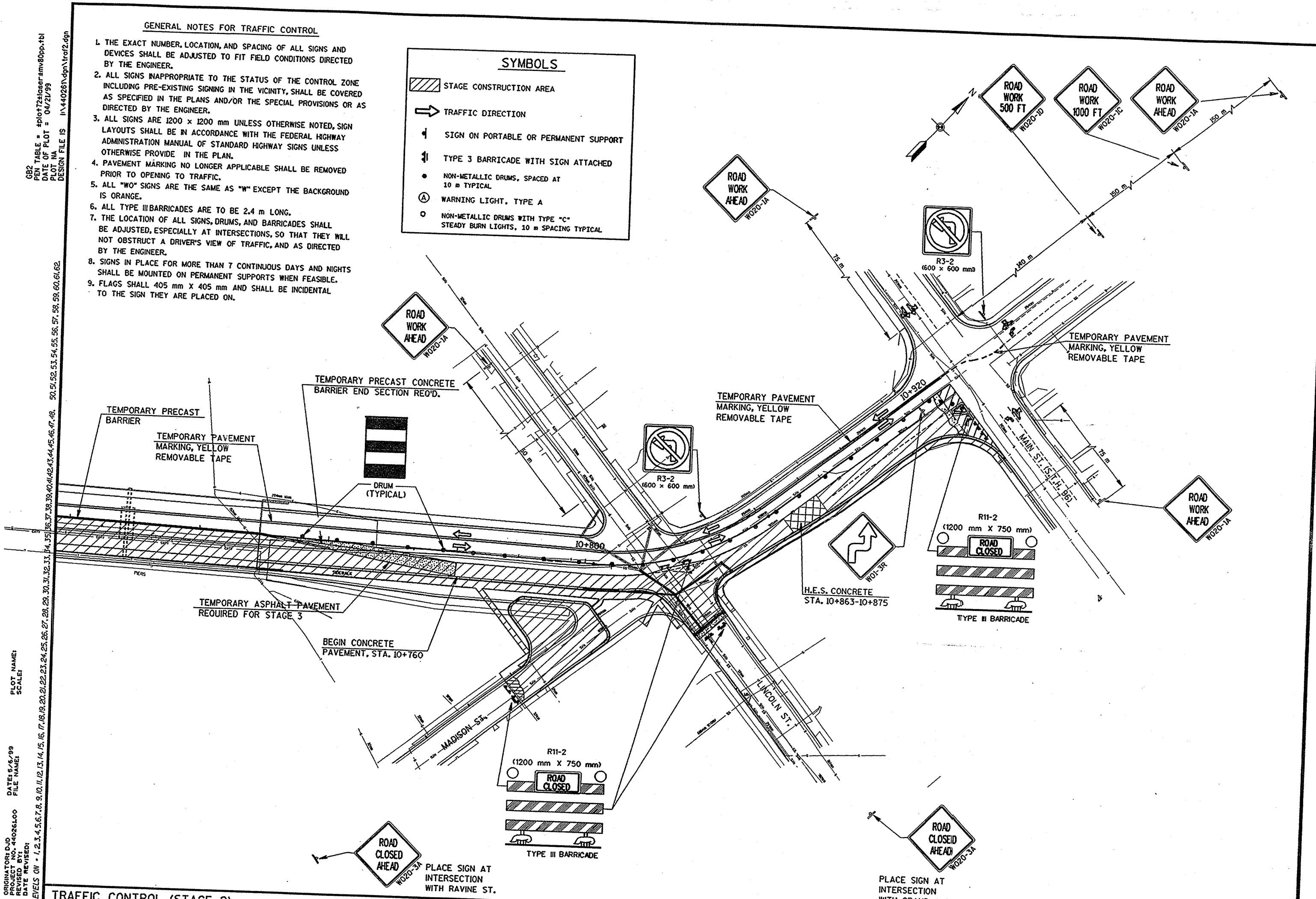
GENERAL NOTES FOR TRAFFIC CONTROL

1. THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS DIRECTED BY THE ENGINEER.
2. ALL SIGNS INAPPROPRIATE TO THE STATUS OF THE CONTROL ZONE INCLUDING PRE-EXISTING SIGNING IN THE VICINITY, SHALL BE COVERED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS DIRECTED BY THE ENGINEER.
3. ALL SIGNS ARE 1200 x 1200 mm UNLESS OTHERWISE NOTED, SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FEDERAL HIGHWAY ADMINISTRATION MANUAL OF STANDARD HIGHWAY SIGNS UNLESS OTHERWISE PROVIDED IN THE PLAN.
4. PAVEMENT MARKING NO LONGER APPLICABLE SHALL BE REMOVED PRIOR TO OPENING TO TRAFFIC.
5. ALL "WO" SIGNS ARE THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.
6. ALL TYPE III BARRICADES ARE TO BE 2.4 m LONG.
7. THE LOCATION OF ALL SIGNS, DRUMS, AND BARRICADES SHALL BE ADJUSTED, ESPECIALLY AT INTERSECTIONS, SO THAT THEY WILL NOT OBSTRUCT A DRIVER'S VIEW OF TRAFFIC, AND AS DIRECTED BY THE ENGINEER.
8. SIGNS IN PLACE FOR MORE THAN 7 CONTINUOUS DAYS AND NIGHTS SHALL BE MOUNTED ON PERMANENT SUPPORTS WHEN FEASIBLE.
9. FLAGS SHALL 405 mm X 405 mm AND SHALL BE INCIDENTAL TO THE SIGN THEY ARE PLACED ON.

SYMBOLS

- STAGE CONSTRUCTION AREA
- TRAFFIC DIRECTION
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- TYPE III BARRICADE WITH SIGN ATTACHED
- NON-METALLIC DRUMS, SPACED AT 10 m TYPICAL
- WARNING LIGHT, TYPE A
- NON-METALLIC DRUMS WITH TYPE "C" STEADY BURN LIGHTS, 10 m SPACING TYPICAL

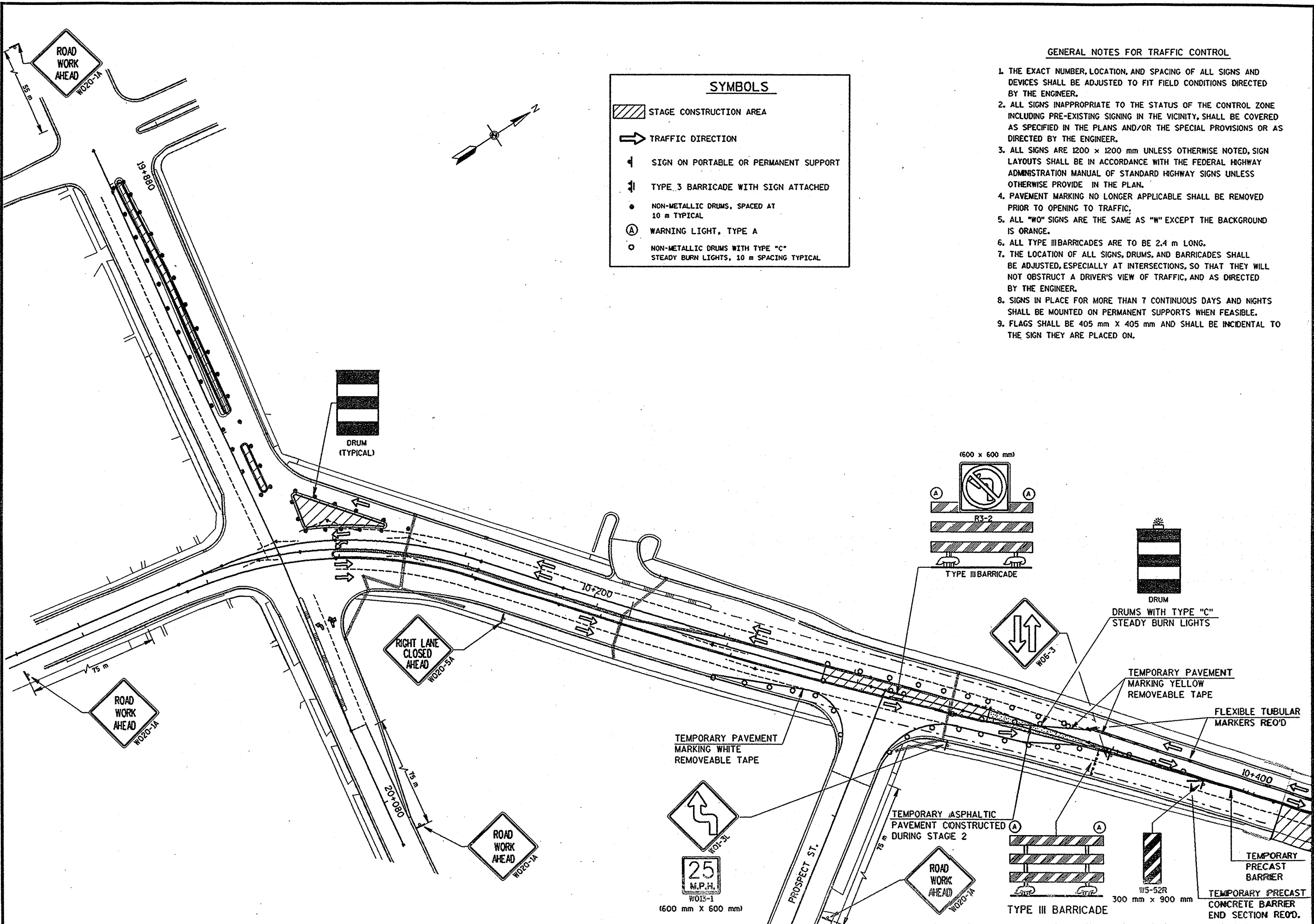
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 PLOT NAME: SCALE:
 DATE OF PLOT: 04/21/99
 PLOT NO:
 DESIGN FILE IS: I:\440264\trac2.dgn



TRAFFIC CONTROL (STAGE 2)

GB2
 PEN TABLE = :plot72:isuser:amv80pp.tbl
 DATE OF PLOT = 04/22/99
 PLOT NA
 DESIGN FILE IS I:\440281\dgn\traf31.dgn

ORIGINATOR: DJD
 PROJECT NO. 4402800
 REVISIONS BY: [REDACTED]
 DATE REVISION: [REDACTED]
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SYMBOLS








- STAGE CONSTRUCTION AREA
- TRAFFIC DIRECTION
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- TYPE 3 BARRICADE WITH SIGN ATTACHED
- NON-METALLIC DRUMS, SPACED AT 10 m TYPICAL
- WARNING LIGHT, TYPE A
- NON-METALLIC DRUMS WITH TYPE "C" STEADY BURN LIGHTS, 10 m SPACING TYPICAL

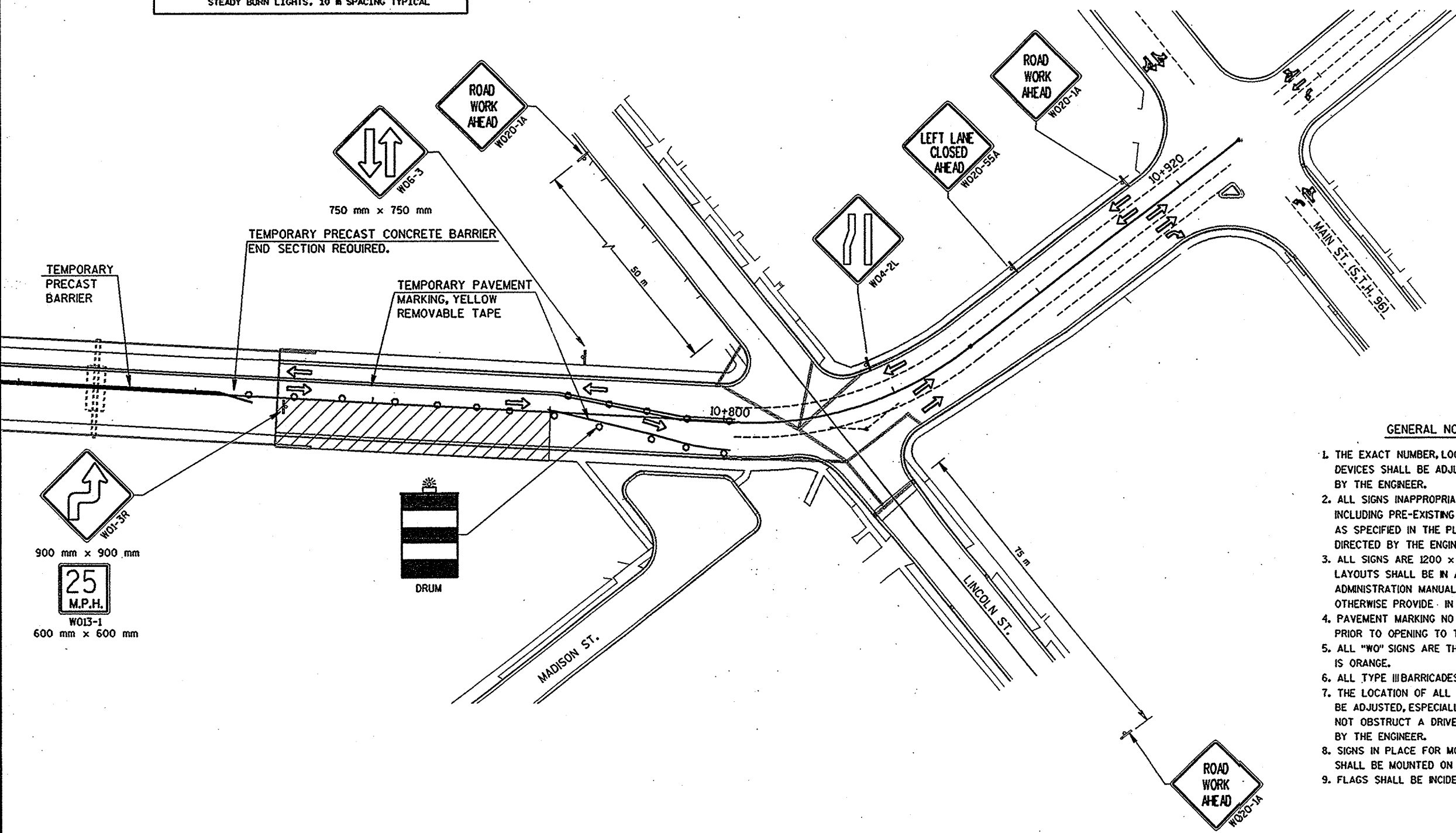
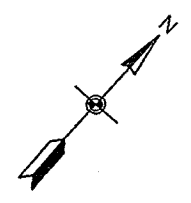
GENERAL NOTES FOR TRAFFIC CONTROL

1. THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS DIRECTED BY THE ENGINEER.
2. ALL SIGNS INAPPROPRIATE TO THE STATUS OF THE CONTROL ZONE INCLUDING PRE-EXISTING SIGNING IN THE VICINITY, SHALL BE COVERED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS DIRECTED BY THE ENGINEER.
3. ALL SIGNS ARE 1200 x 1200 mm UNLESS OTHERWISE NOTED, SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FEDERAL HIGHWAY ADMINISTRATION MANUAL OF STANDARD HIGHWAY SIGNS UNLESS OTHERWISE PROVIDED IN THE PLAN.
4. PAVEMENT MARKING NO LONGER APPLICABLE SHALL BE REMOVED PRIOR TO OPENING TO TRAFFIC.
5. ALL "WO" SIGNS ARE THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.
6. ALL TYPE III BARRICADES ARE TO BE 2.4 m LONG.
7. THE LOCATION OF ALL SIGNS, DRUMS, AND BARRICADES SHALL BE ADJUSTED, ESPECIALLY AT INTERSECTIONS, SO THAT THEY WILL NOT OBSTRUCT A DRIVER'S VIEW OF TRAFFIC, AND AS DIRECTED BY THE ENGINEER.
8. SIGNS IN PLACE FOR MORE THAN 7 CONTINUOUS DAYS AND NIGHTS SHALL BE MOUNTED ON PERMANENT SUPPORTS WHEN FEASIBLE.
9. FLAGS SHALL BE 405 mm x 405 mm AND SHALL BE INCIDENTAL TO THE SIGN THEY ARE PLACED ON.

WISDOTS MS-422

GB2
 PEN TABLE = splot72\laser-smv80pp.tbl
 DATE OF PLOT = 04/22/99
 PLOT NO.
 DESIGN FILE IS I:\440261\dgn\trf42.dgn
 ORIGINAL D.D. DATE: 8/4/99
 PROJECT NO. 440261.00
 REVISIONS:
 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. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62.
 SCALE:

| SYMBOLS | |
|---|---|
|  | STAGE CONSTRUCTION AREA |
|  | TRAFFIC DIRECTION |
|  | SIGN ON PORTABLE OR PERMANENT SUPPORT |
|  | TYPE 3 BARRICADE WITH SIGN ATTACHED |
|  | NON-METALLIC DRUMS, SPACED AT 10 m TYPICAL |
|  | WARNING LIGHT, TYPE A |
|  | NON-METALLIC DRUMS WITH TYPE "C" STEADY BURN LIGHTS, 10 m SPACING TYPICAL |

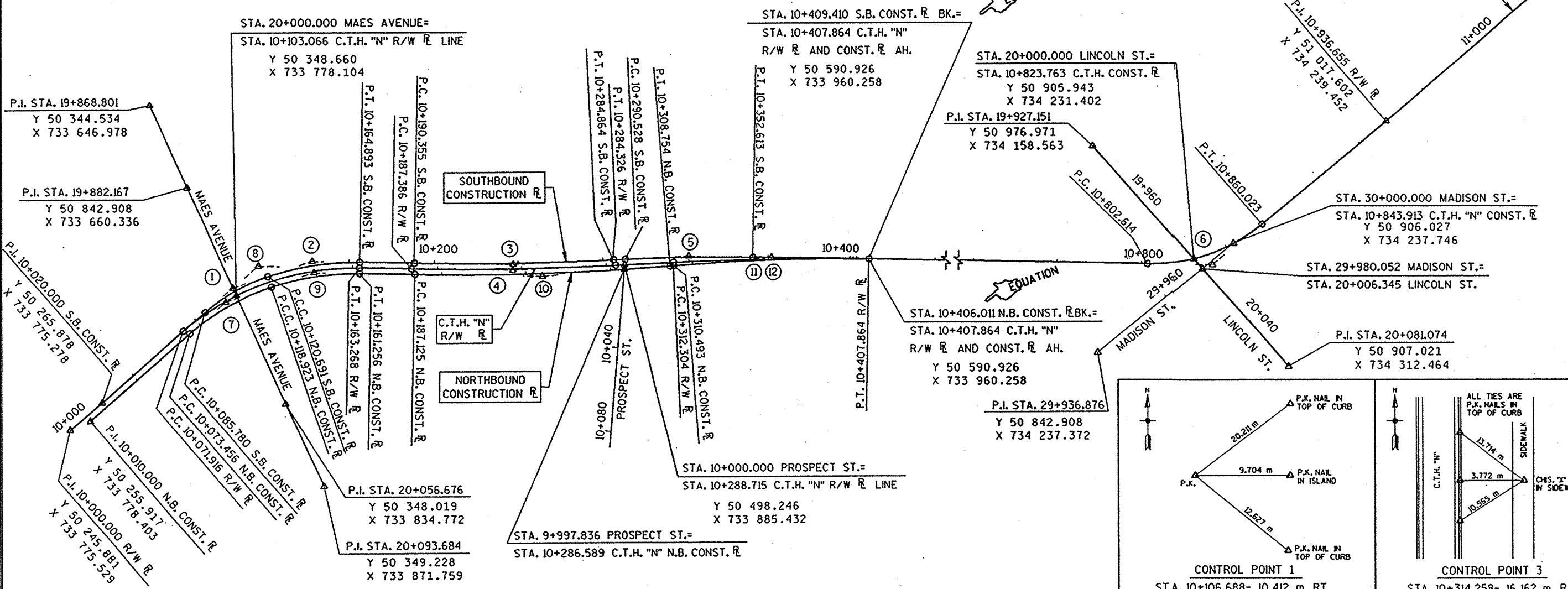


GENERAL NOTES FOR TRAFFIC CONTROL

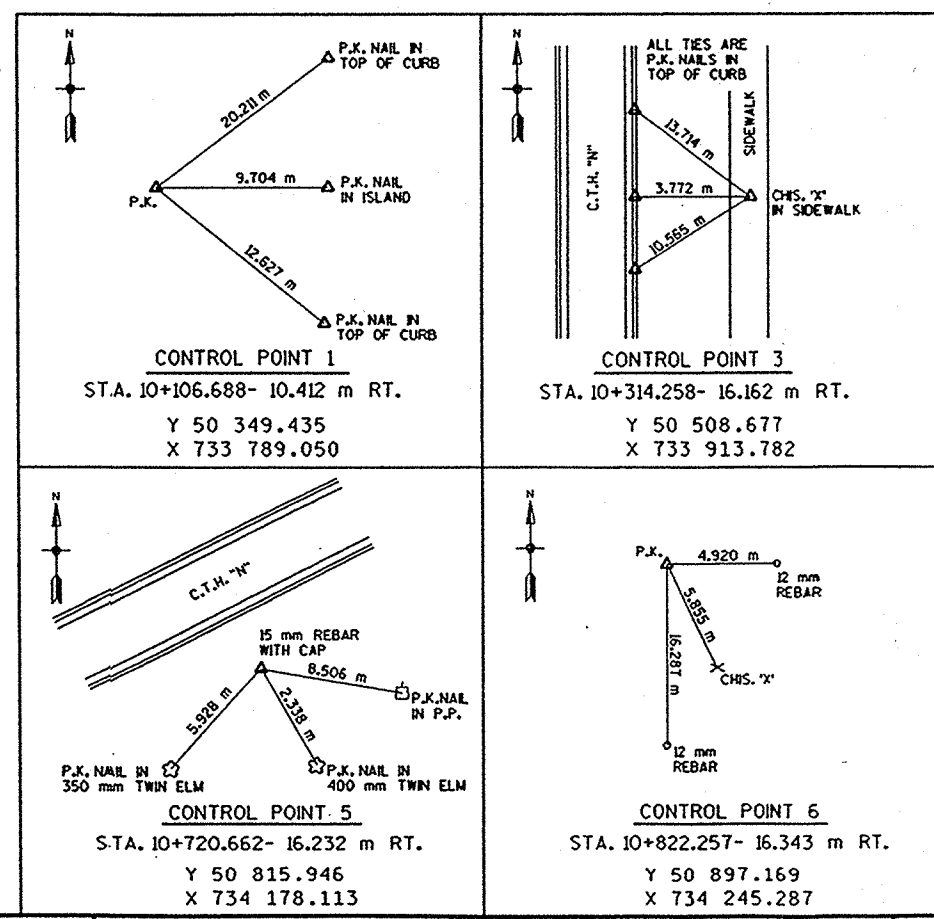
1. THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS DIRECTED BY THE ENGINEER.
2. ALL SIGNS INAPPROPRIATE TO THE STATUS OF THE CONTROL ZONE INCLUDING PRE-EXISTING SIGNING IN THE VICINITY, SHALL BE COVERED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS DIRECTED BY THE ENGINEER.
3. ALL SIGNS ARE 1200 x 1200 mm UNLESS OTHERWISE NOTED, SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FEDERAL HIGHWAY ADMINISTRATION MANUAL OF STANDARD HIGHWAY SIGNS UNLESS OTHERWISE PROVIDED IN THE PLAN.
4. PAVEMENT MARKING NO LONGER APPLICABLE SHALL BE REMOVED PRIOR TO OPENING TO TRAFFIC.
5. ALL "WO" SIGNS ARE THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.
6. ALL TYPE III BARRICADES ARE TO BE 2.4 m LONG.
7. THE LOCATION OF ALL SIGNS, DRUMS, AND BARRICADES SHALL BE ADJUSTED, ESPECIALLY AT INTERSECTIONS, SO THAT THEY WILL NOT OBSTRUCT A DRIVER'S VIEW OF TRAFFIC, AND AS DIRECTED BY THE ENGINEER.
8. SIGNS IN PLACE FOR MORE THAN 7 CONTINUOUS DAYS AND NIGHTS SHALL BE MOUNTED ON PERMANENT SUPPORTS WHEN FEASIBLE.
9. FLAGS SHALL BE INCIDENTAL TO THE SIGN THEY ARE PLACED ON.

GB2
 PEN TABLE = splo72410ae7amv80pp.tbl
 DATE OF PLOT = 02/19/99
 PLOT NA
 DESIGN FILE IS I:\440261\dn\line.dgn
 ORIGINATOR: J.D.
 PROJECT NO: 44026100
 REVISION BY:
 DATE REVISION:
 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, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62
 PLOT NAME:
 SCALE:
 DATE: 12/15/97
 FILE NAME:

| ① | ② | ③ | ④ | ⑤ | ⑥ |
|---|--|---|---|---|---|
| SOUTHBOUND R CURVE DATA | SOUTHBOUND R CURVE DATA | SOUTHBOUND R CURVE DATA | R/W R CURVE DATA | SOUTHBOUND R CURVE DATA | R/W R CURVE DATA |
| P.I. 10+103.454 Y 50 349.321 X 733 774.234 Δ = 22°01'21" T = 17.674 m L = 34.911 m E = 1.705 m R = 90.754 m P.C. 10+085.780 P.T. 10+120.691 S.E. N.C. | P.I. 10+143.015 Y 50 386.579 X 733 788.777 Δ = 19°29'44" T = 22.324 m L = 44.202 m E = 1.937 m R = 127.699 m P.C. 10+120.691 P.T. 10+164.893 S.E. N.C. | P.I. 10+237.625 Y 50 458.145 X 733 851.331 Δ = 3°21'49" T = 47.270 m L = 94.509 m E = 0.745 m R = 1,500.000 m P.C. 10+190.355 P.T. 10+284.864 S.E. N.C. | P.I. 10+235.873 Y 50 456.272 X 733 853.280 Δ = 3°25'16" T = 48.487 m L = 96.941 m E = 0.783 m R = 1,500.000 m P.C. 10+187.386 P.T. 10+284.326 S.E. N.C. | P.I. 10+321.580 Y 50 524.732 X 733 902.508 Δ = 3°19'57" T = 31.053 m L = 62.086 m E = 0.482 m R = 1,000.000 m P.C. 10+290.528 P.T. 10+352.613 S.E. N.C. | P.I. 10+832.617 Y 50 910.973 X 734 239.478 Δ = 41°03'57" T = 30.004 m L = 57.409 m E = 5.441 m R = 80.000 m P.C. 10+802.614 P.T. 10+860.023 S.E. N.C. |

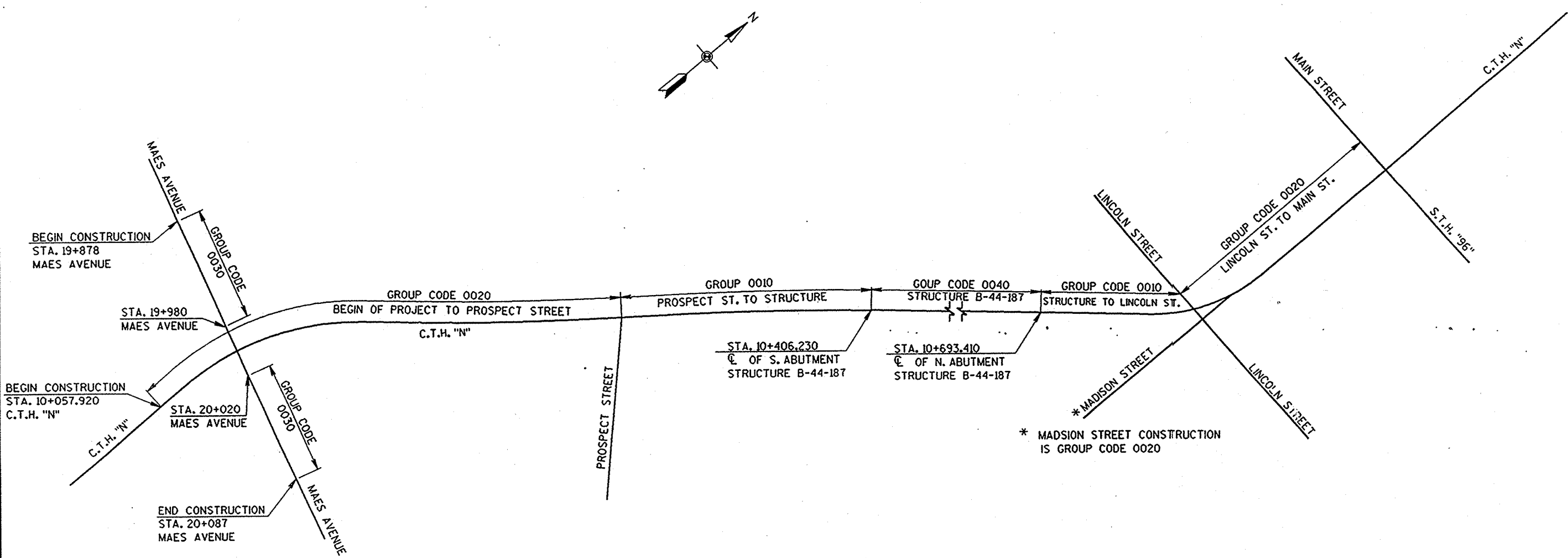
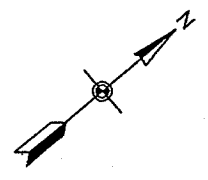


| ⑦ | ⑧ | ⑨ | ⑩ | ⑪ | ⑫ |
|--|--|--|--|---|---|
| NORTHBOUND R CURVE DATA | R/W R CURVE DATA | NORTHBOUND R CURVE DATA | NORTHBOUND R CURVE DATA | NORTHBOUND R CURVE DATA | R/W R CURVE DATA |
| P.I. 10+096.474 Y 50 342.379 X 733 777.321 Δ = 22°01'21" T = 23.018 m L = 45.466 m E = 2.220 m R = 118.195 m P.C. 10+073.456 P.T. 10+118.923 S.E. N.C. | P.I. 10+119.739 Y 50 365.604 X 733 774.029 Δ = 41°31'20" T = 47.824 m L = 91.352 m E = 8.836 m R = 125.000 m P.C. 10+071.916 P.T. 10+163.268 S.E. N.C. | P.I. 10+140.303 Y 50 383.736 X 733 793.464 Δ = 19°29'44" T = 21.380 m L = 42.333 m E = 1.855 m R = 122.299 m P.C. 10+118.923 P.T. 10+161.256 S.E. N.C. | P.I. 10+247.988 Y 50 465.132 X 733 864.609 Δ = 5°20'35" T = 60.863 m L = 121.629 m E = 1.481 m R = 1,250.000 m P.C. 10+187.125 P.T. 10+308.754 S.E. N.C. | P.I. 10+358.289 Y 50 554.912 X 733 928.838 Δ = 5°18'43" T = 47.796 m L = 95.518 m E = 1.152 m R = 991.026 m P.C. 10+310.493 P.T. 10+406.011 S.E. N.C. | P.I. 10+360.099 Y 50 554.912 X 733 928.838 Δ = 3°23'24" T = 47.796 m L = 95.559 m E = 0.761 m R = 1,500.000 m P.C. 10+312.304 P.T. 10+407.864 S.E. N.C. |



WSDOT: MSH

ORIGINATOR: DJD DATE: 12/16/97 PLOT NAME: SCALE: 1"=40' FILE NAME: 44026100
 PROJECT NO. 44026100
 REVISIONS: 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
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 DESIGN FILE IS: I:\440261\00\over.dgn



* MADISON STREET CONSTRUCTION IS GROUP CODE 0020

DATE 27APR99

ESTIMATE OF QUANTITIES

SHEET: 3.1

| LINE NUMBER | ITEM | ITEM DESCRIPTION | UNIT | TOTAL | 4676-03-71 QUANTITY |
|-------------|-------|---|------|-----------|---------------------|
| 0010 | 20101 | CLEARING | 40M | 3.00 | 3.00 |
| 0020 | 20102 | CLEARING | 25MM | 48.00 | 48.00 |
| 0030 | 20104 | GRUBBING | 40M | 3.00 | 3.00 |
| 0040 | 20105 | GRUBBING | 25MM | 48.00 | 48.00 |
| 0050 | 20351 | REMOVING OLD BRIDGE, STATION 10+549.82 | LS | 1.00 | 1.00 |
| 0060 | 20401 | REMOVING PAVEMENT | M2 | 12,910.00 | 12,910.00 |
| 0070 | 20402 | REMOVING ASPHALTIC SURFACE | M2 | 974.00 | 974.00 |
| 0080 | 20405 | REMOVING CURB AND GUTTER | M | 2,160.00 | 2,160.00 |
| 0090 | 20406 | REMOVING CONCRETE SIDEWALK | M2 | 1,938.00 | 1,938.00 |
| 0100 | 20412 | REMOVING FENCE | M | 144.00 | 144.00 |
| 0110 | 20414 | REMOVING MANHOLES | EACH | 6.00 | 6.00 |
| 0120 | 20416 | REMOVING INLETS | EACH | 21.00 | 21.00 |
| 0130 | 20422 | REMOVING CONCRETE BASES | EACH | 18.00 | 18.00 |
| 0140 | 20503 | UNCLASSIFIED EXCAVATION | M3 | 10,532.00 | 10,532.00 |
| 0150 | 20610 | EXCAVATION FOR STRUCTURES, BRIDGES B-44-187 | LS | 1.00 | 1.00 |
| 0160 | 20650 | COFFERDAMS STRUCTURE B-44-187 | LS | 1.00 | 1.00 |
| 0170 | 20801 | BORROW EXCAVATION | M3 | 2,440.00 | 2,440.00 |
| 0180 | 21001 | STRUCTURE BACKFILL | M3 | 866.00 | 866.00 |
| 0190 | 30404 | CRUSHED AGGREGATE BASE COURSE | MG | 7,045.00 | 7,045.00 |
| 0200 | 40204 | ASPHALTIC MATERIAL FOR TACK COAT | L | 230.00 | 230.00 |
| 0210 | 40501 | ASPHALTIC MATERIAL FOR PLANT MIXES | MG | 19.90 | 19.90 |
| 0220 | 40713 | ASPHALTIC CONCRETE PAVEMENT, TYPE MV | MG | 353.00 | 353.00 |
| 0230 | 41510 | CONCRETE PAVEMENT, 250 MM | M2 | 11,358.00 | 11,358.00 |
| 0240 | 41520 | H.E.S. CONCRETE PAVEMENT, 250 MM | M2 | 1,275.00 | 1,275.00 |
| 0250 | 41605 | CONCRETE DRIVEWAY, 150 MM | M2 | 134.00 | 134.00 |
| 0260 | 41621 | CONCRETE PAVEMENT APPROACH SLAB | M2 | 47.60 | 47.60 |
| 0270 | 41653 | PAVEMENT TIES | EACH | 110.00 | 110.00 |
| 0280 | 41665 | CONCRETE PAVEMENT GAPS | EACH | 6.00 | 6.00 |
| 0290 | 50201 | CONCRETE MASONRY, BRIDGES | M3 | 2,658.00 | 2,658.00 |
| 0300 | 50211 | CONCRETE MASONRY, SEAL | M3 | 755.00 | 755.00 |
| 0310 | 50265 | PROTECTIVE SURFACE TREATMENT | M2 | 6,358.00 | 6,358.00 |
| 0320 | 50309 | PRESTRESSED GIRDER, I TYPE, 1780 MM | M | 2,583.00 | 2,583.00 |
| 0330 | 50504 | HIGH STRENGTH BAR STEEL REINFORCEMENT, BRIDGES | KG | 98,690.00 | 98,690.00 |

DATE 27APR99

ESTIMATE OF QUANTITIES

SHEET: 3.2

| LINE NUMBER | ITEM | ITEM DESCRIPTION | UNIT | TOTAL | 4676-03-71 QUANTITY |
|-------------|-------|--|------|------------|---------------------|
| 0340 | 50511 | COATED HIGH STRENGTH BAR STEEL REINFORCEMENT, BRIDGES | KG | 239,260.00 | 239,260.00 |
| 0350 | 50626 | NON-LAMINATED ELASTOMERIC BEARING PADS | EACH | 54.00 | 54.00 |
| 0360 | 50640 | STEEL DIAPHRAGMS, STRUCTURE B-44-187 | EACH | 112.00 | 112.00 |
| 0370 | 50660 | EXPANSION BEARING ASSEMBLIES, STRUCTURE B-44-187 | EACH | 18.00 | 18.00 |
| 0380 | 51121 | STEEL PILING, DELIVERED AND DRIVEN, HP 250 MM X 62 KG/M | M | 575.00 | 575.00 |
| 0390 | 51130 | PILE POINTS | EACH | 50.00 | 50.00 |
| 0400 | 51405 | FLOOR DRAINS, TYPE GC | EACH | 12.00 | 12.00 |
| 0410 | 51605 | RUBBERIZED MEMBRANE WATERPROOFING | M2 | 24.00 | 24.00 |
| 0420 | 60119 | CONCRETE CURB AND GUTTER, 450 MM, TYPE A | M | 655.00 | 655.00 |
| 0430 | 60123 | CONCRETE CURB AND GUTTER, 750 MM, TYPE A | M | 1,556.00 | 1,556.00 |
| 0440 | 60133 | CONCRETE CURB AND GUTTER, 750 MM, TYPE D | M | 100.00 | 100.00 |
| 0450 | 60204 | CONCRETE SIDEWALK, 100 MM | M2 | 2,942.00 | 2,942.00 |
| 0460 | 60308 | TEMPORARY PRECAST CONCRETE BARRIER, CONTRACTOR FURNISHED, CONTRACTOR INSTALLED | M | 625.00 | 625.00 |
| 0470 | 60405 | SLOPE PAVING, CRUSHED AGGREGATE | M2 | 550.00 | 550.00 |
| 0480 | 60602 | HEAVY RIPRAP | M3 | 272.00 | 272.00 |
| 0490 | 60825 | REINFORCED CONCRETE PIPE, CLASS III, STORM SEWER, 300 MM | M | 292.00 | 292.00 |
| 0500 | 60826 | REINFORCED CONCRETE PIPE, CLASS III, STORM SEWER, 375 MM | M | 13.00 | 13.00 |
| 0510 | 61110 | MANHOLES, TYPE 1 | EACH | 7.00 | 7.00 |
| 0520 | 61122 | INLETS, TYPE 3 | EACH | 25.00 | 25.00 |
| 0530 | 61128 | RECONSTRUCTING MANHOLES | EACH | 3.00 | 3.00 |
| 0540 | 61151 | MANHOLE COVERS, TYPE J | EACH | 7.00 | 7.00 |
| 0550 | 61167 | INLET COVERS, TYPE H | EACH | 25.00 | 25.00 |
| 0560 | 61182 | ADJUSTING MANHOLE COVERS | EACH | 17.00 | 17.00 |
| 0570 | 61201 | PIPE UNDERDRAIN, 150 MM | M | 40.00 | 40.00 |
| 0580 | 61211 | PIPE UNDERDRAIN, UNPERFORATED, 150 MM | M | 6.00 | 6.00 |
| 0590 | 62001 | CONCRETE CORRUGATED MEDIAN | M2 | 82.00 | 82.00 |
| 0600 | 62401 | WATER | KL | 267.20 | 267.20 |
| 0610 | 62501 | TOPSOIL | M2 | 4,410.00 | 4,410.00 |
| 0620 | 62702 | MULCHING | M2 | 5,269.00 | 5,269.00 |
| 0630 | 62815 | SILT FENCE, DELIVERED | M | 376.00 | 376.00 |

DATE 27APR99

ESTIMATE OF QUANTITIES

SHEET: 3.3

| LINE NUMBER | ITEM | ITEM DESCRIPTION | UNIT | TOTAL | 4676-03-71 QUANTITY |
|-------------|-------|--|------|-----------|---------------------|
| 0640 | 62816 | SILT FENCE, INSTALLED | M | 376.00 | 376.00 |
| 0650 | 62817 | SILT FENCE MAINTENANCE | M | 376.00 | 376.00 |
| 0660 | 62824 | EROSION MAT, DELIVERED, CLASS I, TYPE B | M2 | 1,305.00 | 1,305.00 |
| 0670 | 62825 | EROSION MAT, INSTALLED, CLASS I, TYPE B | M2 | 1,305.00 | 1,305.00 |
| 0680 | 62905 | FERTILIZER, TYPE B | KG | 226.00 | 226.00 |
| 0690 | 63003 | SEEDING, TEMPORARY | KG | 57.00 | 57.00 |
| 0700 | 63009 | SEEDING, MIXTURE NO. 20 | KG | 21.00 | 21.00 |
| 0710 | 63011 | SEEDING, MIXTURE NO. 40 | KG | 33.00 | 33.00 |
| 0720 | 63101 | SODDING | M2 | 1,180.00 | 1,180.00 |
| 0730 | 64202 | FIELD OFFICE, TYPE B | LS | 1.00 | 1.00 |
| 0740 | 64311 | TRAFFIC CONTROL, SURVEILLANCE AND MAINTENANCE | DAYS | 683.00 | 683.00 |
| 0750 | 64313 | TRAFFIC CONTROL, DRUMS | DAYS | 26,596.00 | 26,596.00 |
| 0760 | 64318 | TRAFFIC CONTROL, BARRICADES, TYPE III | DAYS | 5,491.00 | 5,491.00 |
| 0770 | 64321 | TRAFFIC CONTROL, WARNING LIGHTS, TYPE A | DAYS | 8,122.00 | 8,122.00 |
| 0780 | 64323 | TRAFFIC CONTROL, WARNING LIGHTS, TYPE C | DAYS | 13,512.00 | 13,512.00 |
| 0790 | 64326 | TRAFFIC CONTROL, SIGNS | DAYS | 13,662.00 | 13,662.00 |
| 0800 | 64329 | TRAFFIC CONTROL, FLEXIBLE TUBULAR MARKER POSTS | EACH | 66.00 | 66.00 |
| 0810 | 64333 | TRAFFIC CONTROL, FLEXIBLE TUBULAR MARKER BASES | EACH | 66.00 | 66.00 |
| 0820 | 64503 | GEOTEXTILE FABRIC, TYPE DF | M2 | 90.00 | 90.00 |
| 0830 | 64506 | GEOTEXTILE FABRIC, TYPE HR | M2 | 453.00 | 453.00 |
| 0840 | 64602 | PAVEMENT MARKING, 100 MM, EPOXY | M | 1,695.00 | 1,695.00 |
| 0850 | 64618 | PAVEMENT MARKING, CHANNELIZING, 200 MM, EPOXY | M | 382.00 | 382.00 |
| 0860 | 64642 | REMOVING PAVEMENT MARKINGS | M | 205.00 | 205.00 |
| 0870 | 64710 | PAVEMENT MARKING, STOP LINE, 450 MM, EPOXY | M | 67.00 | 67.00 |
| 0880 | 64718 | PAVEMENT MARKING, CROSSWALK, 150 MM, EPOXY | M | 308.00 | 308.00 |
| 0890 | 64730 | PAVEMENT MARKING, ARROWS, TYPE 1, EPOXY | EACH | 2.00 | 2.00 |
| 0900 | 64734 | PAVEMENT MARKING, ARROWS, TYPE 2, EPOXY | EACH | 14.00 | 14.00 |
| 0910 | 64738 | PAVEMENT MARKING, ARROWS, TYPE 3, EPOXY | EACH | 2.00 | 2.00 |
| 0920 | 64758 | PAVEMENT MARKING, WORDS, EPOXY | EACH | 10.00 | 10.00 |
| 0930 | 64778 | PAVEMENT MARKING, CURB, EPOXY | M | 64.00 | 64.00 |
| 0940 | 64790 | PAVEMENT MARKING, ISLAND NOSE, EPOXY | EACH | 3.00 | 3.00 |
| 0950 | 64901 | TEMPORARY PAVEMENT MARKING, 100 MM | M | 1,579.00 | 1,579.00 |

DATE 27APR99

ESTIMATE OF QUANTITIES

SHEET: 3.4

| LINE NUMBER | ITEM | ITEM DESCRIPTION | UNIT | TOTAL | 4676-03-71 QUANTITY |
|-------------|-------|--|------|----------|---------------------|
| 0960 | 64904 | TEMPORARY PAVEMENT MARKING, 100 MM, REMOVABLE TAPE | M | 2,581.00 | 2,581.00 |
| 0970 | 65216 | NONMETALLIC CONDUIT, SCHEDULE 40, 25 MM | M | 4.00 | 4.00 |
| 0980 | 65219 | NONMETALLIC CONDUIT, SCHEDULE 40, 50 MM | M | 910.00 | 910.00 |
| 0990 | 65221 | NONMETALLIC CONDUIT, SCHEDULE 40, 75 MM | M | 194.00 | 194.00 |
| 1000 | 65250 | LOOP DETECTOR CONDUIT | M | 313.00 | 313.00 |
| 1010 | 65306 | PULL BOXES, STEEL, 600 X 900 MM | EACH | 12.00 | 12.00 |
| 1020 | 65321 | JUNCTION BOXES, 300 X 200 X 150 MM | EACH | 16.00 | 16.00 |
| 1030 | 65401 | CONCRETE BASES, TYPE 1 | EACH | 6.00 | 6.00 |
| 1040 | 65402 | CONCRETE BASES, TYPE 2 | EACH | 5.00 | 5.00 |
| 1050 | 65418 | CONCRETE CONTROL CABINET BASES, TYPE 9 | EACH | 1.00 | 1.00 |
| 1060 | 65425 | PEDESTAL BASES | EACH | 1.00 | 1.00 |
| 1070 | 65524 | TRAFFIC SIGNAL CABLE, 5 CONDUCTOR, NO. 14 | M | 36.00 | 36.00 |
| 1080 | 65526 | TRAFFIC SIGNAL CABLE, 7 CONDUCTOR, NO. 14 | M | 76.00 | 76.00 |
| 1090 | 65532 | TRAFFIC SIGNAL CABLE, 15 CONDUCTOR, NO. 14 | M | 283.00 | 283.00 |
| 1100 | 65557 | ELECTRICAL WIRE, TRAFFIC SIGNALS, NO. 10 | M | 599.00 | 599.00 |
| 1110 | 65571 | ELECTRICAL WIRE, LIGHTING, NO. 2 | M | 1,875.00 | 1,875.00 |
| 1120 | 65580 | LOOP DETECTOR LEAD IN CABLE | M | 493.00 | 493.00 |
| 1130 | 65585 | LOOP DETECTOR WIRE | M | 854.00 | 854.00 |
| 1140 | 65615 | ELECTRICAL SERVICE, METER BREAKER PEDESTAL, | LS | 1.00 | 1.00 |
| 1150 | 65733 | TRAFFIC SIGNAL STANDARDS, ALUMINUM, 4.6 M | EACH | 1.00 | 1.00 |
| 1160 | 65827 | TRAFFIC SIGNAL FACES, 4-300 MM VERTICAL | EACH | 6.00 | 6.00 |
| 1170 | 65828 | TRAFFIC SIGNAL FACES, 5-300 MM VERTICAL | EACH | 1.00 | 1.00 |
| 1180 | 65830 | TRAFFIC SIGNAL FACES, 4-300 MM HORIZONTAL | EACH | 2.00 | 2.00 |
| 1190 | 65837 | BACKPLATES, 4 SECTION, 300 MM SIGNAL FACES | EACH | 8.00 | 8.00 |
| 1200 | 65838 | BACKPLATES, 5 SECTION, 300 MM SIGNAL FACES | EACH | 1.00 | 1.00 |
| 1210 | 65849 | PEDESTRIAN PUSH BUTTONS | EACH | 8.00 | 8.00 |
| 1220 | 65850 | TRAFFIC SIGNAL MOUNTING HARDWARE, | LS | 1.00 | 1.00 |
| 1230 | 66501 | SAWING EXISTING PAVEMENT | M | 198.00 | 198.00 |
| 1240 | 66502 | SAWING CONCRETE PAVEMENT, FULL DEPTH | M | 315.20 | 315.20 |

DATE 27APR99

ESTIMATE OF QUANTITIES

SHEET: 3.5

| LINE NUMBER | ITEM | ITEM DESCRIPTION | UNIT | TOTAL | 4676-03-71 QUANTITY |
|-------------|-------|--|------|-----------|---------------------|
| 1250 | 90001 | MISC ITEM 90001A CONSTRUCTION STAKING PRELIMINARY | M | 1,652.00 | 1,652.00 |
| 1260 | 90001 | MISC ITEM 90001B CONSTRUCTION STAKING SUBGRADE, SPECIAL | M | 1,498.00 | 1,498.00 |
| 1270 | 90001 | MISC ITEM 90001E CONSTRUCTION STAKING CONCRETE PAVEMENT, SPECIAL | M | 1,461.00 | 1,461.00 |
| 1280 | 90001 | MISC ITEM 90001F REMOVING STORM SEWER | M | 126.00 | 126.00 |
| 1290 | 90001 | MISC ITEM 90001G UTILITY CONDUIT, 100 MM | M | 1,755.00 | 1,755.00 |
| 1300 | 90001 | MISC ITEM 90001H TRACK CLEARANCE FENCE | M | 72.00 | 72.00 |
| 1310 | 90001 | MISC 90001C CONSTRUCTION STAKING, CRUSHED AGG. BASE COURSE FOR ASPH. CONC. PAVT. | M | 100.00 | 100.00 |
| 1320 | 90001 | MISC 90001D CONSTRUCTION STAKING, CURB, GUTTER, AND CURB AND GUTTER, SPECIAL | M | 100.00 | 100.00 |
| 1330 | 90002 | MISC ITEM 90002A PAVEMENT MARKING CONCRETE CORREGATED MEDIAN, EPOXY | M2 | 18.00 | 18.00 |
| 1340 | 90002 | MISC ITEM 90002A PAVEMENT MARKING, CONCRETE CORREGATED MEDIAN, EPOXY | M2 | 15.00 | 15.00 |
| 1350 | 90002 | MISC ITEM 90002B SEALING JOINTS | M2 | 12,633.00 | 12,633.00 |
| 1360 | 90002 | MISC ITEM 90002C ANTI-GRAFFITI COATING, STRUCTURE B-44-187 | M2 | 488.00 | 488.00 |
| 1370 | 90002 | MISC ITEM 90002D TEMPORARY SHORING | M2 | 300.00 | 300.00 |
| 1380 | 90002 | MISC ITEM 90002E TURBIDITY BARRIERS | M2 | 288.00 | 288.00 |
| 1390 | 90003 | MISC ITEM 90003A EXCAVATION FOR PIER NO. 6 | M3 | 60.00 | 60.00 |
| 1400 | 90003 | MISC 90003B QMP, HIGH PERFORMANCE READY MIXED CONCRETE MASONRY FOR BRIDGES | M3 | 2,658.00 | 2,658.00 |
| 1410 | 90004 | MISC ITEM 90004A TEMPORARY TRAFFIC SIGNALS, CTH N & MAES | LS | 1.00 | 1.00 |
| 1420 | 90004 | MISC ITEM 90004B TEMPORARY TRAFFIC SIGNALS, CTH N & STH 96 | LS | 1.00 | 1.00 |
| 1430 | 90004 | MISC ITEM 90004C CONSTRUCTION STAKING, B-44-187, SPECIAL | LS | 1.00 | 1.00 |
| 1440 | 90004 | MISC ITEM 90004F MODULAR EXPANSION DEVICE, STRUCTURE B-44-187 | LS | 1.00 | 1.00 |
| 1450 | 90004 | MISC 90004E REMOVING AND SALVAGING EXISTING SIGNAL EQUIPMENT, CTH N & STH 96 | LS | 1.00 | 1.00 |
| 1460 | 90004 | MISC 90004G TUBULAR RAILING, TYPE F, STRUCTURE B-44-187, MODIFIED (4) | LS | 1.00 | 1.00 |
| 1470 | 90004 | MISC 90004D REMOVING AND SALVAGING EXISTING SIGNAL EQUIPMENT, CTH N & MAES | LS | 1.00 | 1.00 |
| 1480 | 90005 | MISC ITEM 90005A CONSTRUCTION STAKING STORM SEWER SYSTEM | EACH | 23.00 | 23.00 |
| 1490 | 90005 | MISC ITEM 90005A CONSTRUCTION STAKING, STORM SEWER SYSTEM | EACH | 9.00 | 9.00 |

DATE 27APR99

ESTIMATE OF QUANTITIES

SHEET: 3.6

| LINE NUMBER | ITEM | ITEM DESCRIPTION | UNIT | TOTAL | 4676-03-71 QUANTITY |
|-------------|-------|---|------|-----------|---------------------|
| 1500 | 90005 | MISC ITEM 90005C EROSION CONTROL FILTER BAGS, DELIVERED | EACH | 240.00 | 240.00 |
| 1510 | 90005 | MISC ITEM 90005D EROSION CONTROL FILTER BAGS INSTALLED | EACH | 240.00 | 240.00 |
| 1520 | 90005 | MISC ITEM 90005E EROSION CONTROL FILTER BAG MAINTENANCE | EACH | 240.00 | 240.00 |
| 1530 | 90005 | MISC ITEM 90005F UNDERWATER FOUNDATION INSPECTION | EACH | 5.00 | 5.00 |
| 1540 | 90005 | MISC ITEM 90005H ANCHOR ASSEMBLIES FOR LIGHT POLES | EACH | 16.00 | 16.00 |
| 1550 | 90005 | MISC ITEM 90005J ANCHOR POINT HANGERS | EACH | 6.00 | 6.00 |
| 1560 | 90005 | MISC ITEM 90005K INTERMEDIATE HANGERS | EACH | 86.00 | 86.00 |
| 1570 | 90005 | MISC ITEM 90005L TEMPORARY BARRIER RETAINING BLOCK | EACH | 50.00 | 50.00 |
| 1580 | 90005 | MISC 90005B REMOVING AND SALVAGING OVERHEAD SIGN | EACH | 2.00 | 2.00 |
| 1590 | 90005 | MISC 90005G REMOVING PAVEMENT MARKING SYMBOLS | EACH | 6.00 | 6.00 |
| 1600 | 90480 | PIPE RAILING | M | 40.00 | 40.00 |
| 1610 | 90502 | QMP, MASONRY STRENGTH INCENTIVE, READY MIXED CONCRETE | DOL | 21,906.00 | 21,906.00 |
| 1620 | 90859 | TRAFFIC SIGNAL CONTROLLER, FULLY ACTUATED, 8 PHASE | EACH | 1.00 | 1.00 |

GB2 PEN TABLE # sp107240ceer-smv80pp.tbl
 DATE OF PLOT = 04/21/99
 PLOT NO
 DESIGN FILE IS I:\440261\dmgn\misc.dgn
 ORIGINATOR: DJD
 PROJECT NO: 44026100
 REVISION BY:
 DATE REVISION:
 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, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62
 PLOT NAME:
 SCALE:
 DATE: 11/27/98
 FILE NAME:

CLEARING AND GRUBBING

| STATION-STATION | LOCATION | CLEARING | | GRUBBING | |
|-----------------|--------------------|----------|------|----------|------|
| | | 25 mm | 40 m | 25 mm | 40 m |
| GROUP CODE 010 | | | | | |
| 10+400-10+425 | C.T.H. "N" LT. | 0 | 1 | 0 | 1 |
| 10+665-10+745 | C.T.H. "N" LT./RT. | 0 | 2 | 0 | 2 |
| SUBTOTALS | | 0 | 3 | 0 | 3 |
| GROUP CODE 030 | | | | | |
| 20+055-20+081 | MAES AVE. LT. | 48 | 0 | 48 | 0 |
| SUBTOTALS | | 48 | 0 | 48 | 0 |
| TOTALS | | 48 | 3 | 48 | 3 |

SAWING EXISTING PAVEMENT

| STATION-STATION | LOCATION | LENGTH m |
|-----------------|----------------|-------------|
| GROUP CODE 010 | | |
| 10+289-10+348 | C.T.H. "N" LT. | 72.0 |
| SUBTOTAL | | 72.0 |
| GROUP CODE 020 | | |
| 10+200-10+209 | C.T.H. "N" LT. | 9.0 |
| 10+263-10+289 | C.T.H. "N" LT. | 18.0 |
| 10+820-10+878 | C.T.H. "N" LT. | 53.0 |
| 10+840-10+853 | C.T.H. "N" RT. | 13.5 |
| 10+858-10+875 | C.T.H. "N" RT. | 17.0 |
| 10+900-10+915 | C.T.H. "N" LT. | 15.5 |
| SUBTOTAL | | 126.0 |
| TOTAL | | 198.0 |

SAWING CONCRETE PAVEMENT, FULL DEPTH

| STATION-STATION | LOCATION | QUANTITY m |
|-----------------|----------------|---------------|
| GROUP CODE 020 | | |
| 10+058 | C.T.H. "N" | 13.8 |
| 10+137-10+159 | C.T.H. "N" RT. | 33.0 |
| 10+853-10+859 | C.T.H. "N" RT. | 6.3 |
| 10+878-10+898 | C.T.H. "N" LT. | 20.6 |
| 10+916-10+926 | C.T.H. "N" LT. | 19.5 |
| 10+930 | C.T.H. "N" LT. | 50.5 |
| 10+028 | PROSPECT ST. | 13.8 |
| 19+970 | LINCOLN ST. | 11.3 |
| 20+026 | LINCOLN ST. | 12.1 |
| 29+938 | MADISON ST. | 9.4 |
| SUBTOTAL | | 190.3 |
| GROUP CODE 030 | | |
| 19+878 | MAES AVE. | 23.6 |
| 19+936-19+956 | MAES AVE. RT. | 20.0 |
| 20+016-20+087 | MAES AVE. | 81.3 |
| SUBTOTAL | | 124.9 |
| TOTAL | | 315.2 |

REMOVING PAVEMENT

| STATION-STATION | LOCATION | QUANTITY m2 |
|-----------------|------------|----------------|
| GROUP CODE 010 | | |
| 10+289-10+384 | C.T.H. "N" | 1,257 |
| 10+702-10+824 | C.T.H. "N" | 2,149 |
| SUBTOTAL | | 3,406 |
| GROUP CODE 020 | | |
| 10+058-10+289 | C.T.H. "N" | 4,965 |
| 10+824-10+930 | C.T.H. "N" | 1,994 |
| SUBTOTAL | | 6,959 |
| GROUP CODE 030 | | |
| 19+878-19+989 | MAES AVE. | 2,147 |
| 20+011-20+057 | MAES AVE. | 398 |
| SUBTOTAL | | 2,545 |
| TOTAL | | 12,910 |

REMOVING CURB AND GUTTER

| STATION-STATION | LOCATION | QUANTITY m |
|-----------------|-------------|---------------|
| GROUP CODE 010 | | |
| 10+289-10+384 | C.T.H. "N" | 229 |
| 10+701-10+824 | C.T.H. "N" | 227 |
| SUBTOTAL | | 456 |
| GROUP CODE 020 | | |
| 10+058-10+289 | C.T.H. "N" | 907 |
| 10+824-10+930 | C.T.H. "N" | 249 |
| 29+938-29+994 | MADISON ST. | 104 |
| SUBTOTAL | | 1,254 |
| GROUP CODE 030 | | |
| 19+878-19+986 | MAES AVE. | 389 |
| 20+026-20+087 | MAES AVE. | 61 |
| SUBTOTAL | | 450 |
| TOTAL | | 2,160 |

REMOVING CONCRETE SIDEWALK

| STATION-STATION | LOCATION | QUANTITY m2 |
|-----------------|-------------|----------------|
| GROUP CODE 010 | | |
| 10+289-10+384 | C.T.H. "N" | 348 |
| 10+701-10+824 | C.T.H. "N" | 350 |
| SUBTOTAL | | 698 |
| GROUP CODE 020 | | |
| 10+058-10+289 | C.T.H. "N" | 432 |
| 10+824-10+930 | C.T.H. "N" | 476 |
| 29+938-29+994 | MADISON ST. | 77 |
| SUBTOTAL | | 985 |
| GROUP CODE 030 | | |
| 19+878-19+986 | MAES AVE. | 255 |
| SUBTOTAL | | 255 |
| TOTAL | | 1,938 |

REMOVING INLETS

| STATION | LOCATION | QUANTITY EACH |
|----------------|--------------------------|------------------|
| GROUP CODE 010 | | |
| 10+307 | C.T.H. "N", 2.8 m LT. | 1 |
| 10+307 | C.T.H. "N", 12 m RT. | 1 |
| 10+805 | C.T.H. "N", 0.3 m RT. | 1 |
| 10+813 | C.T.H. "N", 5.5 m LT. | 1 |
| 20+023 | LINCOLN ST., 5.5 m RT. | 1 |
| SUBTOTAL | | 5 |
| GROUP CODE 020 | | |
| 10+083 | C.T.H. "N", 6.7 m LT. | 1 |
| 10+087 | C.T.H. "N", 6.8 m RT. | 1 |
| 10+129 | C.T.H. "N", 0.6 m RT. | 1 |
| 10+130 | C.T.H. "N", 12.2 m RT. | 1 |
| 10+163 | C.T.H. "N", 10 m LT. | 1 |
| 10+209 | C.T.H. "N", 10.5 m RT. | 1 |
| 10+217 | C.T.H. "N", 13.5 m LT. | 1 |
| 10+837 | C.T.H. "N", 3.8 m LT. | 1 |
| 10+840 | C.T.H. "N", 10 m RT. | 1 |
| 10+922 | C.T.H. "N", 14.5 m RT. | 1 |
| 19+989 | LINCOLN ST., 6 m LT. | 1 |
| 20+023 | LINCOLN ST., 5.5 m LT. | 1 |
| SUBTOTAL | | 12 |
| GROUP CODE 030 | | |
| 19+967 | MAES AVE., 9.5 m LT./RT. | 2 |
| 19+968 | MAES AVE., 14 m LT. | 1 |
| 20+026 | MAES AVE., 7.7 m LT. | 1 |
| SUBTOTAL | | 4 |
| TOTAL | | 21 |

REMOVING MANHOLES

| STATION | LOCATION | QUANTITY EACH |
|----------------|------------------------|------------------|
| GROUP CODE 010 | | |
| 10+408 | C.T.H. "N", 3.8 m RT. | 1 |
| 10+804 | C.T.H. "N", 1 m RT. | 1 |
| 10+817 | C.T.H. "N", 2.2 m RT. | 1 |
| 10+825 | C.T.H. "N", 11.4 m RT. | 1 |
| SUBTOTAL | | 4 |
| GROUP CODE 020 | | |
| 10+121 | C.T.H. "N", 13.3 m LT. | 1 |
| 10+164 | C.T.H. "N", 12.2 m RT. | 1 |
| SUBTOTAL | | 2 |
| TOTAL | | 6 |

REMOVING FENCE

| STATION-STATION | LOCATION | QUANTITY m |
|-----------------|----------------|---------------|
| GROUP CODE 010 | | |
| 10+687-10+750 | C.T.H. "N" LT. | 70 |
| 10+723-10+796 | C.T.H. "N" RT. | 74 |
| TOTAL | | 144 |

ADJUSTING MANHOLE COVERS

| STATION | LOCATION | TYPE | QUANTITY EACH |
|----------------|-----------------------|----------------|------------------|
| GROUP CODE 010 | | | |
| * 10+823 | C.T.H. "N" 8.6 m RT. | SANITARY | 1 |
| * 10+825 | C.T.H. "N" 7.2 m RT. | SANITARY | 1 |
| SUBTOTAL | | | 2 |
| GROUP CODE 020 | | | |
| 10+089 | C.T.H. "N" 6.6 m RT. | STORM | 1 |
| * 10+089 | C.T.H. "N" 4.8 m LT. | | 1 |
| * 10+100 | C.T.H. "N" 4.6 m LT. | SANITARY | 1 |
| 10+104 | C.T.H. "N" 3.5 m LT. | STORM | 1 |
| 10+128 | C.T.H. "N" 8 m RT. | STORM | 1 |
| 10+209 | C.T.H. "N" 12.5 m RT. | STORM | 1 |
| * 10+900 | C.T.H. "N" 10 m LT. | | 1 |
| * 10+919 | C.T.H. "N" 15.5 m RT. | | 1 |
| 10+922 | C.T.H. "N" 12 m LT. | TRAFFIC SIGNAL | 1 |
| 10+922 | C.T.H. "N" 7.5 m RT. | STORM | 1 |
| 10+927 | C.T.H. "N" 8 m RT. | TRAFFIC SIGNAL | 1 |
| 10+930 | C.T.H. "N" 3.5 m RT. | STORM | 1 |
| SUBTOTAL | | | 12 |
| GROUP CODE 030 | | | |
| * 19+931 | MAES AVE. 2.2 m RT. | SANITARY | 1 |
| 19+933 | MAES AVE. 2.1 m LT. | STORM | 1 |
| 20+011 | MAES AVE. 1.8 m LT. | STORM | 1 |
| SUBTOTAL | | | 3 |
| TOTAL | | | 17 |

* - NON-PARTICIPATING

RECONSTRUCTING MANHOLES

| STATION | LOCATION | EXISTING RIM ELEVATIONS | PROPOSED RIM ELEVATIONS | QUANTITY EACH |
|----------------|-----------------------|-------------------------------|-------------------------------|------------------|
| GROUP CODE 010 | | | | |
| * 10+388.5 | C.T.H. "N" 3.7 m LT. | 222.617 | 224.857 | 1 |
| * 10+406 | C.T.H. "N" 14.9 m LT. | 222.500 | 224.000 | 1 |
| GROUP CODE 060 | | | | |
| * 10+684.5 | C.T.H. "N" 8.5 m LT. | 216.356 | 217.556 | 1 |
| TOTAL | | | | 3 |

* REMOVE AND SALVAGE EXISTING CONE SECTION. ADD MANHOLE RISER SECTION(S). REINSTALL SALVAGED CONE SECTION AND ADD ADJUSTMENT RINGS AS NECESSARY. TOTAL HEIGHT OF RINGS SHALL NOT BE GREATER THAN 150 mm.

GB2
 PEN TABLE = splo7210aer-smv80pp.tbl
 DATE OF PLOT = 04/21/99
 PLOT NO. 144028100
 DESIGN FILE IS 144028100.dgn
 ORIGINAL D.P. DATE 11/27/98
 PROJECT NO. 44028100
 REVISIONS BY DATE REVISIONS
 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, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62.

EARTHWORK DATA
MAES AVE.

| STATION | END AREA | | FACTOR | | * INCREMENTAL VOLUMES | | * CUMULATIVE VOLUMES | |
|----------------|----------|------|--------|------|-----------------------|------|----------------------|------|
| | CUT | FILL | CUT | FILL | CUT | FILL | CUT | FILL |
| | m2 | m2 | | | m3 | m3 | m3 | m3 |
| GROUP CODE 030 | | | | | | | | |
| 19+878 | 9.7 | 0.0 | 1.0 | 1.3 | | | | |
| 19+880 | 9.7 | 0.0 | 1.0 | 1.3 | 19 | 0.0 | 19 | 0.0 |
| 19+900 | 8.6 | 0.0 | 1.0 | 1.3 | 183 | 0.0 | 202 | 0.0 |
| 19+920 | 9.5 | 0.0 | 1.0 | 1.3 | 181 | 0.0 | 383 | 0.0 |
| 19+940 | 9.3 | 0.1 | 1.0 | 1.3 | 188 | 1.3 | 571 | 1.3 |
| 19+960 | 10.4 | 0.1 | 1.0 | 1.3 | 197 | 2.6 | 768 | 3.9 |
| 19+980 | 14.1 | 0.0 | 1.0 | 1.3 | 245 | 1.3 | 1,013 | 5.2 |
| GROUP CODE 030 | | | | | | | | |
| 20+020 | 4.4 | 0.0 | 1.0 | 1.3 | | | | |
| 20+040 | 5.8 | 0.0 | 1.0 | 1.3 | 101 | 0.0 | 1,114 | 5.2 |
| 20+060 | 2.5 | 0.0 | 1.0 | 1.3 | 83 | 0.0 | 1,197 | 5.2 |

* VOLUMES SHOWN ARE EXPANDED BY THE FACTOR SHOWN IN THE TABLE.

EARTHWORK DATA
C.T.H. "N" STA. 10+058 TO STA. 10+423

| STATION | END AREA | | FACTOR | | * INCREMENTAL VOLUMES | | * CUMULATIVE VOLUMES | |
|----------------|----------|-------|--------|------|-----------------------|---------|----------------------|---------|
| | CUT | FILL | CUT | FILL | CUT | FILL | CUT | FILL |
| | m2 | m2 | | | m3 | m3 | m3 | m3 |
| GROUP CODE 020 | | | | | | | | |
| 10+058 | 7.4 | 0.0 | 1.0 | 1.3 | | | | |
| 10+060 | 7.4 | 0.0 | 1.0 | 1.3 | 15 | 0.0 | 15 | 0.0 |
| 10+080 | 6.8 | 0.0 | 1.0 | 1.3 | 142 | 0.0 | 157 | 0.0 |
| 10+100 | 8.5 | 0.0 | 1.0 | 1.3 | 153 | 0.0 | 310 | 0.0 |
| 10+120 | 20.9 | 0.0 | 1.0 | 1.3 | 294 | 0.0 | 604 | 0.0 |
| 10+140 | 16.2 | 0.0 | 1.0 | 1.3 | 370 | 0.0 | 974 | 0.0 |
| 10+160 | 13.4 | 0.0 | 1.0 | 1.3 | 296 | 0.0 | 1,270 | 0.0 |
| 10+180 | 11.0 | 0.0 | 1.0 | 1.3 | 244 | 0.0 | 1,514 | 0.0 |
| 10+200 | 8.6 | 0.1 | 1.0 | 1.3 | 196 | 1.3 | 1,710 | 1.3 |
| 10+220 | 9.8 | 0.1 | 1.0 | 1.3 | 184 | 2.6 | 1,894 | 3.9 |
| 10+240 | 10.3 | 0.2 | 1.0 | 1.3 | 201 | 3.9 | 2,095 | 7.8 |
| 10+260 | 10.7 | 0.2 | 1.0 | 1.3 | 210 | 5.2 | 2,305 | 13.0 |
| 10+280 | 16.2 | 0.0 | 1.0 | 1.3 | 270 | 2.6 | 2,575 | 15.6 |
| GROUP CODE 010 | | | | | | | | |
| 10+300 | 13.3 | 0.2 | 1.0 | 1.3 | 295 | 2.6 | 2,870 | 18.2 |
| 10+320 | 11.1 | 0.5 | 1.0 | 1.3 | 243 | 9.1 | 3,113 | 27.3 |
| 10+340 | 12.8 | 1.2 | 1.0 | 1.3 | 239 | 22.1 | 3,352 | 49.4 |
| 10+360 | 19.4 | 0.5 | 1.0 | 1.3 | 322 | 22.1 | 3,674 | 71.5 |
| 10+380 | 18.0 | 9.4 | 1.0 | 1.3 | 374 | 128.7 | 4,048 | 200.2 |
| 10+389 | 0.0 | 96.0 | 1.0 | 1.3 | 81 | 616.6 | 4,129 | 816.8 |
| 10+400 | 0.0 | 144.8 | 1.0 | 1.3 | 0 | 1,721.7 | 4,129 | 2,538.5 |
| 10+408 | 4.5 | 30.4 | 1.0 | 1.3 | 18 | 911.0 | 4,147 | 3,449.5 |
| 10+411 | 23.1 | 15.4 | 1.0 | 1.3 | 41 | 89.3 | 4,188 | 3,538.8 |
| 10+414 | 33.4 | 7.9 | 1.0 | 1.3 | 85 | 45.5 | 4,273 | 3,584.3 |
| 10+420 | 15.7 | 6.4 | 1.0 | 1.3 | 147 | 55.9 | 4,420 | 3,640.2 |
| 10+423 | 0.0 | 0.0 | 1.0 | 1.3 | 24 | 55.8 | 4,444 | 3,696.0 |

* VOLUMES SHOWN ARE EXPANDED BY THE FACTOR SHOWN IN THE TABLE.

EARTHWORK DATA
C.T.H. "N" STA. 10+678 TO STA. 10+930

| STATION | END AREA | | FACTOR | | * INCREMENTAL VOLUMES | | * CUMULATIVE VOLUMES | |
|----------------|----------|------|--------|------|-----------------------|------|----------------------|-------|
| | CUT | FILL | CUT | FILL | CUT | FILL | CUT | FILL |
| | m2 | m2 | | | m3 | m3 | m3 | m3 |
| GROUP CODE 010 | | | | | | | | |
| 10+678 | 0.0 | 0.0 | 1.0 | 1.3 | | | | |
| 10+680 | 0.0 | 24.6 | 1.0 | 1.3 | 0 | 32 | 0 | 32 |
| 10+690 | 0.0 | 61.4 | 1.0 | 1.3 | 0 | 559 | 0 | 591 |
| 10+699 | 0.0 | 77.0 | 1.0 | 1.3 | 0 | 810 | 0 | 1,401 |
| 10+705 | 39.3 | 18.6 | 1.0 | 1.3 | 118 | 373 | 118 | 1,774 |
| 10+720 | 37.4 | 0.0 | 1.0 | 1.3 | 575 | 182 | 693 | 1,956 |
| 10+740 | 31.3 | 0.0 | 1.0 | 1.3 | 687 | 0 | 1,380 | 1,956 |
| 10+760 | 27.7 | 0.0 | 1.0 | 1.3 | 590 | 0 | 1,970 | 1,956 |
| 10+780 | 41.6 | 0.0 | 1.0 | 1.3 | 694 | 0 | 2,664 | 1,956 |
| 10+800 | 16.7 | 0.0 | 1.0 | 1.3 | 584 | 0 | 3,248 | 1,956 |
| 10+820 | 8.7 | 0.0 | 1.0 | 1.3 | 254 | 0 | 3,502 | 1,956 |
| GROUP CODE 020 | | | | | | | | |
| 10+840 | 6.4 | 0.0 | 1.0 | 1.3 | 151 | 0 | 3,653 | 1,956 |
| 10+860 | 6.7 | 0.0 | 1.0 | 1.3 | 131 | 0 | 3,784 | 1,956 |
| 10+880 | 8.2 | 0.0 | 1.0 | 1.3 | 150 | 0 | 3,934 | 1,956 |
| 10+900 | 8.8 | 0.0 | 1.0 | 1.3 | 170 | 0 | 4,104 | 1,956 |
| 10+920 | 9.3 | 0.0 | 1.0 | 1.3 | 181 | 0 | 4,285 | 1,956 |
| 10+930 | 11.2 | 0.0 | 1.0 | 1.3 | 103 | 0 | 4,388 | 1,956 |

* VOLUMES SHOWN ARE EXPANDED BY THE FACTOR SHOWN IN THE TABLE.

EARTHWORK SUMMARY

| GROUP CODE | STATION-STATION | LOCATION | * TOTAL UNCLASSIFIED EXCAVATION | EXPANDED FILL VOLUME (30%) | * WASTE | BORROW | REMARKS |
|------------|-----------------|-------------------|---------------------------------|----------------------------|---------|--------|---|
| | | | | | | | |
| 020 | 10+058-10+280 | C.T.H. "N" | 2,575 | 16 | 2,559 | --- | |
| 020 | 10+120-10+289 | C.T.H. "N" MEDIAN | --- | 178 | --- | 178 | |
| 010 | 10+280-10+423 | C.T.H. "N" | 1,869 | 3,680 | 382 | 2,193 | BORROW REQ'D. FOR STAGE 1 SOUTH ABUTMENT CONSTRUCTION |
| 010 | 10+289-10+352 | C.T.H. "N" MEDIAN | --- | 69 | --- | 69 | |
| 010 | 10+678-10+820 | C.T.H. "N" | 3,502 | 1,633 | 3,502 | 1,633 | BORROW REQ'D. FOR STAGE 1 NORTH ABUTMENT CONSTRUCTION |
| 020 | 10+820-10+930 | C.T.H. "N" | 886 | --- | 886 | --- | |
| 030 | 19+878-20+060 | MAES AVE. | 1,197 | 5 | 1,192 | --- | |
| 010 | 10+028-10+040 | PROSPECT ST. | 60 | --- | 60 | --- | |
| 010 | 29+938-29+970 | MADISON ST. | 282 | --- | 282 | --- | |
| 020 | 19+970-20+026 | LINCOLN ST. | 161 | --- | 161 | --- | |
| 010 | SUBTOTAL | | 5,713 | | | 3,895 | |
| 020 | SUBTOTAL | | 3,622 | | | 178 | |
| 030 | SUBTOTAL | | 1,197 | | | 0 | |
| | TOTALS | | 10,532 | | 9,024 | 4,073 | |

* UNCLASSIFIED EXCAVATION AND WASTE VOLUMES INCLUDE EXISTING CONCRETE PAVEMENT, SIDEWALK AND MEDIAN.

REMOVING AND SALVAGING OVERHEAD SIGNS

| STATION | LOCATION | QUANTITY EACH |
|----------------|----------------|---------------|
| GROUP CODE 020 | | |
| 10+166 | C.T.H. "N" LT. | 1 |
| SUBTOTAL | | 1 |
| GROUP CODE 030 | | |
| 19+881 | MAES AVE. RT. | 1 |
| SUBTOTAL | | 1 |
| TOTAL | | 2 |

REMOVING ASPHALTIC SURFACE

| STATION-STATION | LOCATION | QUANTITY m2 |
|-----------------|--------------------------------|-------------|
| GROUP CODE 010 | | |
| 10+289-10+347 | C.T.H. "N" | 229 |
| 10+320-10+365 | C.T.H. "N" TEMPORARY CROSSOVER | 79 |
| 10+716-10+760 | C.T.H. "N" TEMPORARY CROSSOVER | 151 |
| SUBTOTAL | | 502 |
| GROUP CODE 020 | | |
| 10+272-10+289 | C.T.H. "N", LT. | 43 |
| 10+833-10+879 | C.T.H. "N", LT. | 55 |
| 10+840-10+875 | C.T.H. "N", RT. | 35 |
| 10+894-10+927 | C.T.H. "N", RT. | 42 |
| 10+898-10+927 | C.T.H. "N", LT. | 35 |
| 29+945-29+949 | MADISON ST., RT. | 5 |
| | C.T.H. "N" TEMPORARY ISLANDS | 257 |
| SUBTOTAL | | 472 |
| TOTAL | | 974 |

REMOVING STORM SEWER

| STATION-STATION | LOCATION | QUANTITY m2 |
|-----------------|-----------------|-------------|
| GROUP CODE 010 | | |
| 10+813 | C.T.H. "N", RT. | 9 |
| 10+816 | C.T.H. "N" | 8 |
| 10+820 | C.T.H. "N", LT. | 12 |
| 10+823 | C.T.H. "N", RT. | 11 |
| SUBTOTAL | | 40 |
| GROUP CODE 020 | | |
| 10+128 | C.T.H. "N" | 34 |
| 10+163 | C.T.H. "N" | 22 |
| 10+833 | C.T.H. "N", RT. | 16 |
| 10+838 | C.T.H. "N" | 14 |
| SUBTOTAL | | 86 |
| TOTAL | | 126 |

REMOVING CONCRETE BASES

| STATION-LOCATION | QUANTITY EACH | REMARKS |
|---------------------------------|---------------|------------------------|
| GROUP CODE 020 | | |
| STA. 10+166 C.T.H. "N" | 2 | OVERHEAD SIGN BASES |
| STA. 10+928 C.T.H. "N", RT. | 1 | SIGNAL BASES IN ISLAND |
| SUBTOTAL | | 3 |
| GROUP CODE 030 | | |
| MAES AVE. AND C.T.H. "N" INTER. | 13 | TRAFFIC SIGNAL BASES |
| STA. 19+878 MAES AVE. | 2 | OVERHEAD SIGN BASES |
| SUBTOTAL | | 15 |
| TOTAL | | 18 |

ORIGINATOR: DUD
 PROJECT NO: 44026100
 REVISIONS BY: [blank]
 DATE REVISION: [blank]
 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, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100

CRUSHED AGGREGATE BASE COURSE

| STATION-STATION | LOCATION | CRUSHED AGGREGATE BASE COURSE Mg | WATER KL |
|-----------------------|------------------------------|-------------------------------------|--------------|
| GROUP CODE 010 | | | |
| 10+289-10+406 | C.T.H. "N" | 887 | 37.3 |
| 10+693-10+824 | C.T.H. "N" | 918 | 38.6 |
| | SIDEWALKS AND DRIVEWAYS | 228 | |
| SUBTOTALS | | 2,033 | 75.9 |
| GROUP CODE 020 | | | |
| 10+058-10+289 | C.T.H. "N" | 1,914 | 80.4 |
| 10+824-10+930 | C.T.H. "N" | 868 | 36.5 |
| 29+938-29+973 | MADISON ST. | 370 | 15.5 |
| 10+320-10+365 | C.T.H. "N" (TEMP. CROSSOVER) | 58 | 2.4 |
| 10+716-10+760 | C.T.H. "N" (TEMP. CROSSOVER) | 190 | 8.0 |
| | SIDEWALKS AND DRIVEWAYS | 271 | |
| SUBTOTALS | | 3,671 | 142.8 |
| GROUP CODE 030 | | | |
| 19+878-19+990 | MAES AVE. | 911 | 38.3 |
| 20+011-20+087 | MAES AVE. | 243 | 10.2 |
| | SIDEWALKS AND DRIVEWAYS | 187 | |
| SUBTOTALS | | 1,341 | 48.5 |
| TOTALS | | 7,045 | 267.2 |

CONCRETE PAVEMENT APPROACH SLAB

| STATION-STATION | LOCATION | QUANTITY m2 |
|-----------------------|------------|----------------|
| GROUP CODE 010 | | |
| 10+400-10+406 | C.T.H. "N" | 23.8 |
| 10+693-10+799 | C.T.H. "N" | 23.8 |
| TOTAL | | 47.6 |

ASPHALTIC SUMMARY

| STATION-STATION | LOCATION | ASPHALTIC CONCRETE PAVEMENT TYPE "MV" Mg | ASPHALTIC MATERIAL FOR PLANT MIXES e 5.6% Mg | ASPHALTIC MATERIAL FOR TACK COAT L | REMARKS |
|-----------------------|---------------------|--|--|---------------------------------------|------------------------------------|
| GROUP CODE 020 | | | | | |
| 10+271-10+340 | C.T.H. "N" 14 m LT. | 18 | 1.0 | 12 | PARKING LOT |
| 10+320-10+365 | C.T.H. "N" | 17 | 1.0 | 11 | TEMP. CROSSOVER PAVING FOR STAGE 3 |
| 10+716-10+760 | C.T.H. "N" | 44 | 2.5 | 29 | TEMP. CROSSOVER PAVING FOR STAGE 3 |
| 29+938-29+973 | MADISON ST. | 127 | 7.1 | 84 | |
| 10+111-10+132 | C.T.H. "N" LT. | 42 | 2.4 | 28 | TEMP. ISLAND PAVING FOR STAGE 2 |
| 10+028-10+031 | PROSPECT ST. | 9 | 0.5 | 6 | |
| 10+924-10+929 | C.T.H. "N" RT. | 5 | 0.3 | 3 | TEMP. ISLAND PAVING, STAGE 1 |
| 10+925-10+930 | C.T.H. "N" | 58 | 3.2 | 38 | |
| | PRIVATE ENTRANCES | 10 | 0.6 | 6 | |
| 10+138 | CTH "N" RT. | 8 | 0.5 | 4 | PATCH FOR STORM SEWER CONSTRUCTION |
| SUBTOTALS | | 338 | 19.1 | 221 | |
| GROUP CODE 030 | | | | | |
| 19+965-19+986 | MAES AVE. | 15 | 0.8 | 9 | TEMP. ISLAND PAVING FOR STAGE 2 |
| SUBTOTALS | | 15 | 0.8 | 9 | |
| TOTALS | | 353 | 19.9 | 230 | |

CONCRETE CURB AND GUTTER, 750 mm TYPE "D"

| STATION-STATION | LOCATION | QUANTITY m |
|-----------------------|-------------|---------------|
| GROUP CODE 020 | | |
| 29+938-29+974 | MADISON ST. | 100 |

CONCRETE CURB AND GUTTER, 750 mm TYPE "A"

| STATION-STATION | LOCATION | QUANTITY m |
|------------------------|-------------------|---------------|
| GROUP CODE 010 | | |
| 10+289-10+406 | C.T.H. "N" LT. | 117 |
| PROSPECT ST.-10+406 | C.T.H. "N" RT. | 125 |
| 10+693-LINCOLN ST. | C.T.H. "N" LT. | 124 |
| 10+693-LINCOLN ST. | C.T.H. "N" RT. | 149 |
| SUBTOTAL | | 515 |
| GROUP CODE 020 | | |
| 10+058-MAES AVE. | C.T.H. "N" LT. | 44 |
| 10+058-MAES AVE. | C.T.H. "N" RT. | 45 |
| 10+111-10+135 | C.T.H. "N" ISLAND | 64 |
| MAES AVE.-10+289 | C.T.H. "N" LT. | 210 |
| MAES AVE.-PROSPECT ST. | C.T.H. "N" RT. | 126 |
| LINCOLN ST.-MAIN ST. | C.T.H. "N" LT. | 133 |
| LINCOLN ST.-MAIN ST. | C.T.H. "N" RT. | 115 |
| 10+927 | C.T.H. "N" ISLAND | 10 |
| SUBTOTAL | | 777 |
| GROUP CODE 030 | | |
| 19+878-C.T.H. "N" | MAES AVE. LT. | 88 |
| 19+878-C.T.H. "N" | MAES AVE. RT. | 99 |
| C.T.H. "N"-20+087 | MAES AVE. LT. | 77 |
| SUBTOTAL | | 264 |
| TOTAL | | 1,556 |

CONCRETE CURB AND GUTTER, 450 mm TYPE "A"

| STATION-STATION | LOCATION | QUANTITY m |
|-----------------------|-------------------|---------------|
| GROUP CODE 010 | | |
| 10+289-10+352 | C.T.H. "N" MEDIAN | 128 |
| SUBTOTAL | | 128 |
| GROUP CODE 020 | | |
| 10+119-10+289 | C.T.H. "N" MEDIAN | 341 |
| SUBTOTAL | | 341 |
| GROUP CODE 030 | | |
| 19+879-19+956 | MAES AVE. MEDIAN | 154 |
| 19+965-19+982 | MAES AVE. MEDIAN | 32 |
| SUBTOTAL | | 186 |
| TOTAL | | 655 |

CONCRETE CORRUGATED MEDIAN

| STATION-STATION | LOCATION | QUANTITY m2 |
|-----------------------|----------------|----------------|
| GROUP CODE 020 | | |
| 10+200-10+231 | C.T.H. "N" LT. | 38.4 |
| SUBTOTAL | | 38.4 |
| GROUP CODE 030 | | |
| 20+014.5-20+051 | MAES AVE. | 43.6 |
| SUBTOTAL | | 43.6 |
| TOTAL | | 82.0 |

PAVEMENT TIES

| STATION | LOCATION | QUANTITY EACH |
|-----------------------|---------------------|------------------|
| GROUP CODE 020 | | |
| 10+058 | C.T.H. "N" | 22 |
| 10+204 | C.T.H. "N" 22 m LT. | 13 |
| 19+970 | LINCOLN ST. | 18 |
| 20+026 | LINCOLN ST. | 19 |
| SUBTOTAL | | 72 |
| GROUP CODE 030 | | |
| 19+878 | MAES AVE. | 38 |
| SUBTOTAL | | 38 |
| TOTAL | | 110 |

LANDSCAPING SUMMARY

| STATION-STATION | LOCATION | TOPSOIL m2 | FERTILIZER TYPE "B" kg | BORROW PIT SEEDING NO. 20 kg | SEEDING NO 40 kg | TEMPORARY SEEDING kg | SOD m2 | MULCH m2 |
|-----------------------|----------------------|---------------|------------------------------|------------------------------------|------------------------|----------------------------|--------------|--------------|
| GROUP CODE 010 | | | | | | | | |
| 10+289-10+423 | C.T.H. "N" | 1,550 | 55 | | 16 | 28 | | 1,550 |
| 10+677-10+824 | C.T.H. "N" | 1,680 | 59 | | 17 | 29 | | 1,680 |
| | BORROW & WASTE SITES | | 71 | 21 | | | | 2,039 |
| SUBTOTALS | | 3,230 | 185 | 21 | 33 | 57 | | 5,269 |
| GROUP CODE 020 | | | | | | | | |
| 10+058-10+289 | C.T.H. "N" | 750 | 26 | | | | 750 | |
| SUBTOTALS | | 750 | 26 | | | | 750 | |
| GROUP CODE 030 | | | | | | | | |
| 19+878-20+087 | MAES AVE. | 430 | 15 | | | | 430 | |
| SUBTOTALS | | 430 | 15 | | | | 430 | |
| TOTALS | | 4,410 | 226 | 21 | 33 | 57 | 1,180 | 5,269 |

CONSTRUCTION STAKING, PRELIMINARY

| STATION-STATION | LOCATION | QUANTITY m |
|-----------------|--------------|---------------|
| GROUP CODE 010 | | |
| 10+289-10+406 | C.T.H. "N" | 351 * |
| 10+693-10+824 | C.T.H. "N" | 131 |
| 10+000-10+028 | PROSPECT ST. | 28 |
| SUBTOTAL | | 510 |
| GROUP CODE 020 | | |
| 10+058-10+289 | C.T.H. "N" | 693 * |
| 10+824-10+930 | C.T.H. "N" | 106 |
| 19+970-20+026 | LINCOLN ST. | 56 |
| 29+938-30+000 | MADISON ST. | 62 |
| SUBTOTAL | | 917 |
| GROUP CODE 030 | | |
| 19+869-20+094 | MAES AVE. | 225 |
| SUBTOTAL | | 225 |
| TOTAL | | 1,652 |

*-LENGTH HAS BEEN TRIPLED FOR 3 REFERENCE LINES.

CONSTRUCTION STAKING, STORM SEWER SYSTEM

| STATION-STATION | LOCATION | QUANTITY EACH |
|-----------------|-------------|------------------|
| GROUP CODE 010 | | |
| 10+302 | C.T.H. "N" | 2 |
| 10+798-10+817 | C.T.H. "N" | 3 |
| 19+975-20+024 | LINCOLN ST. | 4 |
| SUBTOTAL | | 9 |
| GROUP CODE 020 | | |
| 10+083-10+213 | C.T.H. "N" | 12 |
| 10+835-10+923 | C.T.H. "N" | 4 |
| 19+989-20+024 | LINCOLN ST. | 2 |
| 29+972 | MADISON ST. | 1 |
| SUBTOTAL | | 19 |
| GROUP CODE 030 | | |
| 19+965-20+031 | MAES AVE. | 4 |
| SUBTOTAL | | 4 |
| TOTAL | | 32 |

CONSTRUCTION STAKING, SUBGRADE, SPECIAL

| STATION-STATION | LOCATION | QUANTITY m |
|-----------------|-------------|---------------|
| GROUP CODE 010 | | |
| 10+289-10+406 | C.T.H. "N" | 234 * |
| 10+693-10+824 | C.T.H. "N" | 262 * |
| SUBTOTAL | | 496 |
| GROUP CODE 020 | | |
| 10+058-10+289 | C.T.H. "N" | 462 * |
| 10+824-10+930 | C.T.H. "N" | 212 * |
| 29+938-29+975 | MADISON ST. | 37 |
| SUBTOTAL | | 711 |
| GROUP CODE 030 | | |
| 19+878-19+990 | MAES AVE. | 224 * |
| 20+020-20+087 | MAES AVE. | 67 |
| SUBTOTAL | | 291 |
| TOTAL | | 1,498 |

*NOTE: LENGTH HAS BEEN DOUBLED FOR STAGE TWO CONSTRUCTION

CONSTRUCTION STAKING, CURB AND GUTTER, SPECIAL

| STATION-STATION | LOCATION | QUANTITY m |
|-----------------|-------------|---------------|
| GROUP CODE 020 | | |
| 29+938-29+973 | MADISON ST. | 100 |
| TOTAL | | 100 |

CONSTRUCTION STAKING, CRUSHED AGGREGATE BASE COURSE FOR ASPHALTIC CONCRETE PAVEMENT

| STATION-STATION | LOCATION | QUANTITY m |
|-----------------|-------------|---------------|
| GROUP CODE 020 | | |
| 29+938-29+973 | MADISON ST. | 100 |
| TOTAL | | 100 |

CONSTRUCTION STAKING, CONCRETE PAVEMENT, SPECIAL

| STATION-STATION | LOCATION | QUANTITY m |
|-----------------|------------|---------------|
| GROUP CODE 010 | | |
| 10+289-10+411 | C.T.H. "N" | 244 * |
| 10+698-10+824 | C.T.H. "N" | 252 * |
| SUBTOTAL | | 496 |
| GROUP CODE 020 | | |
| 10+058-10+289 | C.T.H. "N" | 462 * |
| 10+824-10+930 | C.T.H. "N" | 212 * |
| SUBTOTAL | | 674 |
| GROUP CODE 030 | | |
| 19+878-19+990 | MAES AVE. | 224 * |
| 20+020-20+087 | MAES AVE. | 67 |
| SUBTOTAL | | 291 |
| TOTAL | | 1,461 |

*NOTE: LENGTH HAS BEEN DOUBLED FOR STAGE TWO CONSTRUCTION

TEMPORARY PRECAST CONCRETE BARRIER, CONTRACTOR FURNISHED, CONTRACTOR INSTALLED

| STATION-STATION | LOCATION | QUANTITY m |
|-----------------|------------|---------------|
| GROUP CODE 050 | | |
| STAGE 1 | | |
| 10+326-10+376 | C.T.H. "N" | 50 |
| 10+702-10+798 | C.T.H. "N" | 96 |
| STAGE 2 | | |
| 10+305-10+720 | C.T.H. "N" | 415 |
| STAGE 3 | | |
| 10+379-10+387 | C.T.H. "N" | 8 |
| 10+715-10+723 | C.T.H. "N" | 8 |
| STAGE 4 | | |
| 10+345-10+385 | C.T.H. "N" | 40 |
| 10+687-10+695 | C.T.H. "N" | 8 |
| TOTAL | | 625 |

SEALING JOINTS

| STATION-STATION | LOCATION | QUANTITY m2 |
|-----------------|------------|----------------|
| GROUP CODE 010 | | |
| 10+289-10+405 | C.T.H. "N" | 1,950 |
| 10+705-10+824 | C.T.H. "N" | 2,100 |
| SUBTOTAL | | 4,050 |
| GROUP CODE 020 | | |
| 10+058-10+289 | C.T.H. "N" | 3,174 |
| 10+824-10+925 | C.T.H. "N" | 1,669 |
| SUBTOTAL | | 4,843 |
| GROUP CODE 030 | | |
| 19+878-19+990 | MAES AVE. | 1,939 |
| 20+011-20+087 | MAES AVE. | 526 |
| SUBTOTAL | | 2,465 |
| TOTAL | | 11,358 |

PIPE RAILING

| STATION-STATION | LOCATION | QUANTITY m |
|-----------------|--------------------|---------------|
| GROUP CODE 010 | | |
| 10+379-10+399 | C.T.H. "N" LT./RT. | 40 |

CONCRETE DRIVEWAY, 150 mm

| STATION | LOCATION | QUANTITY m2 |
|----------------|-----------------|----------------|
| GROUP CODE 020 | | |
| 19+985 | LINCOLN ST. LT. | 22 |
| 10+871 | C.T.H. "N" RT. | 16 |
| 10+876 | C.T.H. "N" LT. | 16 |
| 10+883 | C.T.H. "N" RT. | 16 |
| 10+909 | C.T.H. "N" LT. | 16 |
| 29+942 | MADISON ST. LT. | 13 |
| 29+946 | MADISON ST. RT. | 5 |
| SUBTOTAL | | 104 |
| GROUP CODE 030 | | |
| 19+897 | MAES AVE. RT. | 15 |
| 19+933 | MAES AVE. RT. | 15 |
| SUBTOTAL | | 30 |
| TOTAL | | 134 |

CONCRETE PAVEMENT, 250 mm (DOWELED)

| STATION-STATION | LOCATION | QUANTITY m2 |
|-----------------|------------|----------------|
| GROUP CODE 010 | | |
| 10+289-10+405 | C.T.H. "N" | 1,950 |
| 10+705-10+824 | C.T.H. "N" | 2,100 |
| SUBTOTAL | | 4,050 |
| GROUP CODE 020 | | |
| 10+058-10+289 | C.T.H. "N" | 3,174 |
| 10+824-10+925 | C.T.H. "N" | 1,669 |
| SUBTOTAL | | 4,843 |
| GROUP CODE 030 | | |
| 19+878-19+990 | MAES AVE. | 1,939 |
| 20+011-20+087 | MAES AVE. | 526 |
| SUBTOTAL | | 2,465 |
| TOTAL | | 11,358 |

TEMPORARY SHORING

| STATION-STATION | LOCATION | QUANTITY m2 |
|-----------------|------------|----------------|
| GROUP CODE 050 | | |
| 10+373-10+411 | C.T.H. "N" | 95 |
| 10+690-10+789 | C.T.H. "N" | 170 |
| TOTAL | | 265 |

TEMPORARY BARRIER RETAINING BLOCK

| STATION-STATION | LOCATION | QUANTITY EA. |
|-----------------|---------------------|-----------------|
| GROUP CODE 050 | | |
| 10+405-10+695 | C.T.H. "N", STAGE 1 | 50 |
| TOTAL | | 50 |

GB2
 PEN TABLE = #plot72sioeer.amv80pp.tbi
 DATE OF PLOT = 04/21/99
 PLOT NA
 DESIGN FILE IS hv440281.dgn\nmlsco.dgn
 ORIGINATOR: DJJ
 PROJECT NO: 44066100
 REVISION: 1
 DATE REVISION: 11/27/98
 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, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62
 PLOT NAME
 SCALE

ORIGINAL D.W.G. NO. 44026100
 PROJECT NO. 44026100
 DATE: 11/27/98
 FILE NAME:
 SCALE:
 PLOT NAME:
 DATE: 03/19/99
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PAVEMENT MARKING, EPOXY

| STATION-STATION | LOCATION | 100 mm SOLID YELLOW CENTERLINE m | 150 mm SOLID WHITE CROSSWALK LINE m | 200 mm SOLID WHITE CHANNELIZING m | 450 mm SOLID WHITE STOPLINE m | 100 mm DASHED WHITE LANE LINE m |
|-----------------|--------------------|---|--|--|--|--|
| GROUP CODE 010 | | | | | | |
| 10+289-10+800 | C.T.H. "N" LT. | | | | | |
| 10+301-10+813 | C.T.H. "N" RT. | | | | | |
| 10+340-10+809 | C.T.H. "N" | 938 | | | | |
| 10+289-10+800 | C.T.H. "N" LT./RT. | | | | | 256 |
| SUBTOTALS | | 938 | | | | 256 |
| GROUP CODE 020 | | | | | | |
| 10+058-10+087 | C.T.H. "N" | 58 | | | | |
| 10+058-10+087 | C.T.H. "N" | | | 28 | | |
| 10+087 | C.T.H. "N" | | | | 8 | |
| 10+089 | C.T.H. "N" | | 32 | | | |
| 10+116 | C.T.H. "N" | | 62 | | | |
| 10+120 | C.T.H. "N" | | | | 8 | |
| 10+120-10+211 | C.T.H. "N" | | | 91 | | |
| 10+133-10+183 | C.T.H. "N" LT. | | | 60 | | |
| 10+122-10+289 | C.T.H. "N" RT. | | | | | 57 |
| 10+195-10+289 | C.T.H. "N" LT. | | | | | 24 |
| 10+836-10+925 | C.T.H. "N" | 178 | | | | |
| 10+842-10+923 | C.T.H. "N" LT. | | | | | 23 |
| 10+842-10+862 | C.T.H. "N" RT. | | | | | 8 |
| 10+880-10+925 | C.T.H. "N" RT. | | | 93 | | |
| 10+925 | C.T.H. "N" RT. | | | | 13 | |
| 10+926 | C.T.H. "N" | | 53 | | | |
| 10+052-10+065 | PROSPECT ST. | 26 | | | | |
| 10+065 | PROSPECT ST. | | 40 | | | |
| 10+067 | PROSPECT ST. | | | | 8 | |
| 19+970-19+986 | LINCOLN ST. | 38 | | | | |
| 19+985 | LINCOLN ST. | | | | 8 | |
| 19+988 | LINCOLN ST. | | 33 | | | |
| SUBTOTALS | | 300 | 220 | 272 | 45 | 112 |
| GROUP CODE 030 | | | | | | |
| 19+889-19+938 | MAES AVE. | | | | | 15 |
| 19+941-19+980 | MAES AVE. | | | 78 | | |
| 19+980 | MAES AVE. | | | | 10 | |
| 19+982 | MAES AVE. | | 43 | | | |
| 20+013 | MAES AVE. | | 45 | | | |
| 20+019 | MAES AVE. | | | | 12 | |
| 20+019-20+051 | MAES AVE. | | | 32 | | |
| 20+050-20+087 | MAES AVE. | 74 | | | | |
| SUBTOTALS | | 74 | 88 | 110 | 22 | 15 |
| TOTALS | | 1,312 | 308 | 382 | 67 | 383 |

CONCRETE PAVEMENT GAPS

| STATION-STATION | LOCATION | QUANTITY EACH |
|-----------------|-----------------|------------------|
| GROUP CODE 010 | | |
| 10+360-10+411 | C.T.H. "N" RT. | 1 |
| 10+699-10+721 | C.T.H. "N" RT. | 1 |
| SUBTOTAL | | 2 |
| GROUP CODE 020 | | |
| 10+200-10+225 | C.T.H. "N", LT. | 1 |
| 10+820-10+835 | C.T.H. "N" | 1 |
| 10+863-10+875 | C.T.H. "N", RT. | 1 |
| 10+869-10+881 | C.T.H. "N", LT. | 1 |
| SUBTOTAL | | 4 |
| TOTAL | | 6 |

CONCRETE SIDEWALK, 100 mm

| STATION-STATION | LOCATION | QUANTITY m2 |
|-----------------|------------|----------------|
| GROUP CODE 010 | | |
| 10+289-10+411 | C.T.H. "N" | 629 |
| 10+699-10+824 | C.T.H. "N" | 621 |
| SUBTOTAL | | 1,250 |
| GROUP CODE 020 | | |
| 10+110-10+289 | C.T.H. "N" | 1,136 |
| 10+824-10+930 | C.T.H. "N" | 280 |
| SUBTOTAL | | 1,416 |
| GROUP CODE 030 | | |
| 19+879-19+982 | MAES AVE. | 276 |
| SUBTOTAL | | 276 |
| TOTAL | | 2,942 |

PAVEMENT MARKING, WORDS AND SYMBOLS, EPOXY

| STATION | LOCATION | ARROWS | | | WORDS EACH | CURB m | ISLAND NOSES EACH | CORRUGATED CONCRETE MEDIAN m2 |
|----------------|-----------------------|-----------------|----------------|----------------|---------------|-----------|-------------------------|--|
| | | TYPE 1 IEACH | TYPE 2 EACH | TYPE 3 EACH | | | | |
| GROUP CODE 020 | | | | | | | | |
| 10+065 | C.T.H. "N" | | | | 1 | | | |
| 10+078 | C.T.H. "N" | | 1 | | | | | |
| 10+120 | C.T.H. "N" ISLAND | | | | | 16 | 3 | |
| 10+120 | C.T.H. "N" MEDIAN | | | | | 6 | | |
| 10+126 | C.T.H. "N" | | 1 | | | | | |
| 10+168 | C.T.H. "N" | | | | 1 | | | |
| 10+178 | C.T.H. "N" | | 1 | | | | | |
| 10+200 | C.T.H. "N" LT. | | | | | 11 | | |
| 10+202-10+234 | C.T.H. "N" LT. | | | | | | | 15 |
| 10+229 | C.T.H. "N" LT. | | 1 | | | | | |
| 10+242 | C.T.H. "N" LT. | | | | 1 | | | |
| 10+881 | C.T.H. "N" RT. | | | | | | | |
| 10+901 | C.T.H. "N" RT. | 1 | 2 | | 3 | | | |
| 10+918 | C.T.H. "N" RT. | 1 | 2 | | | | | |
| 10+927 | C.T.H. "N" ISLAND LT. | | | | | 10 | | |
| SUBTOTALS | | 2 | 8 | | 6 | 43 | 3 | 15 |
| GROUP CODE 030 | | | | | | | | |
| 19+880 | MAES AVE. MEDIAN | | | | | 7 | | |
| 19+942 | MAES AVE. | | 2 | 1 | | | | |
| 19+953 | MAES AVE. MEDIAN | | | | | 7 | | |
| 19+960 | MAES AVE. | | | | 3 | | | |
| 19+965 | MAES AVE. | | 2 | 1 | | | | |
| 19+972 | MAES AVE. MEDIAN | | | | | 7 | | |
| 20+015-20+050 | MAES AVE. | | | | | | | 18 |
| 20+024 | MAES AVE. LT. | | 1 | | | | | |
| 20+038 | MAES AVE. LT. | | | | 1 | | | |
| 20+050 | MAES AVE. LT. | | 1 | | | | | |
| SUBTOTALS | | | 6 | 2 | 4 | 21 | | 18 |
| TOTALS | | 2 | 14 | 2 | 10 | 64 | 3 | 33 |

REMOVING PAVEMENT MARKING LINES & SYMBOLS

| STATION-STATION | LOCATION | LINES m | SYMBOLS EACH |
|-----------------|------------|------------|-----------------|
| GROUP CODE 050 | | | |
| 10+058-10+093 | C.T.H. "N" | 70 | - |
| 10+058-10+093 | C.T.H. "N" | 35 | - |
| 10+900-10+925 | C.T.H. "N" | 65 | 3 |
| 10+950-10+985 | C.T.H. "N" | 35 | 3 |
| TOTAL | | 205 | 6 |

H.E.S. CONCRETE PAVEMENT, 250 mm

| STATION-STATION | LOCATION | QUANTITY m2 |
|-----------------|-----------------|----------------|
| GROUP CODE 020 | | |
| 10+058-10+103 | C.T.H. "N" | 695 |
| 10+200-10+225 | C.T.H. "N", LT. | 338 |
| 10+820-10+835 | C.T.H. "N" | 50 |
| 10+863-10+875 | C.T.H. "N", RT. | 108 |
| 10+869-10+881 | C.T.H. "N", LT. | 84 |
| TOTAL | | 1,275 |

MANHOLES, INLETS, AND COVERS

| GROUP CODE NO. | STRUCTURE NUMBER | STATION | LOCATION | STRUCTURE | DISTANCE LT./RT. | TYPE | COVER | GRATE LT./RT. | ELEVATIONS | | DEPTH m | REMARKS |
|----------------|------------------|----------|-------------|-----------|------------------|------|-------|---------------|------------|----------|---------|---|
| | | | | | | | | | PAVEMENT | FLOWLINE | | |
| 020 | 1 | 10+087 | C.T.H. "N" | INLET | 6.9 m RT. | 3 | H | LT. | 221.755 | 220.500 | 1.26 | CONNECT #1 TO EXIST. 250 mm S.S. TO N.E. |
| 020 | 2 | 10+083 | C.T.H. "N" | INLET | 6.6 m LT. | 3 | H | RT. | 221.980 | 220.930 | 1.05 | |
| 020 | 3 | 10+163 | C.T.H. "N" | MANHOLE | 12.0 m RT. | 1 | J | --- | 221.561 | 219.847 | 1.71 | |
| 020 | 4 | 10+141 | C.T.H. "N" | MANHOLE | 10.2 m RT. | 1 | J | --- | 221.288 | 220.000 | 1.29 | |
| 020 | 5 | 10+138 | C.T.H. "N" | INLET | 0.5 m RT. | 3 | H | RT. | 221.494 | 220.305 | 1.19 | |
| 020 | 6 | 10+133 | C.T.H. "N" | INLET | 6.8 m LT. | 3 | H | RT. | 221.632 | 220.525 | 1.11 | |
| 020 | 7 | 10+142 | C.T.H. "N" | INLET | 11.8 m LT. | 3 | H | LT. | 221.540 | 220.565 | 0.98 | |
| 020 | 8 | 10+140 | C.T.H. "N" | INLET | 11.5 m RT. | 3 | H | LT. | 221.272 | 220.220 | 1.05 | |
| 020 | 9 | 10+205 | C.T.H. "N" | INLET | 9.8 m RT. | 3 | H | RT. | 221.989 | 220.789 | 1.20 | |
| 020 | 10 | 10+207.5 | C.T.H. "N" | INLET | 2.6 m RT. | 3 | H | LT. | 222.153 | 220.859 | 1.29 | |
| 020 | 11 | 10+208 | C.T.H. "N" | INLET | 0.3 m RT. | 3 | H | RT. | 222.292 | 220.909 | 1.38 | |
| 020 | 12 | 10+212.5 | C.T.H. "N" | INLET | 14.4 m LT. | 3 | H | LT. | 222.193 | 221.059 | 1.13 | |
| 010 | 13 | 10+302.5 | C.T.H. "N" | INLET | 11.0 m RT. | 3 | H | RT. | 223.522 | 222.322 | 1.20 | |
| 010 | 14 | 10+308 | C.T.H. "N" | INLET | 9.6 m LT. | 3 | H | LT. | 223.595 | 222.522 | 1.07 | |
| 010 | 15 | 20+024 | LINCOLN ST. | MANHOLE | 3.0 m RT. | 1 | J | --- | 222.551 | 220.433 | 2.12 | CONNECT #15 TO EXIST. 375 mm S.S. TO EAST |
| 010 | 16 | 20+024 | LINCOLN ST. | INLET | 5.5 m RT. | 3 | H | LT. | 222.511 | 221.461 | 1.05 | |
| 020 | 17 | 20+024 | LINCOLN ST. | INLET | 5.7 m LT. | 3 | H | RT. | 222.507 | 221.457 | 1.05 | |
| 010 | 18 | 20+011 | LINCOLN ST. | MANHOLE | 3.2 m RT. | 1 | J | --- | 222.650 | 220.488 | 2.16 | |
| 020 | 19 | 10+841 | C.T.H. "N" | MANHOLE | 5.6 m RT. | 1 | J | --- | 222.884 | 220.931 | 1.95 | |
| 020 | 20 | 10+843 | C.T.H. "N" | INLET | 9.3 m RT. | 3 | H | RT. | 222.830 | 221.762 | 1.05 | |
| 010 | 21 | 10+801 | C.T.H. "N" | INLET | 8.2 m RT. | 3 | H | LT. | 222.599 | 221.547 | 1.05 | |
| 010 | 22 | 29+972 | MADISON ST. | INLET | 10.0 m LT. | 3 | H | RT. | 222.600 | 221.587 | 1.01 | |
| 010 | 23 | 10+817 | C.T.H. "N" | MANHOLE | 2.0 m RT. | 1 | J | --- | 222.794 | 220.693 | 2.10 | |
| 010 | 24 | 10+798.5 | C.T.H. "N" | INLET | 8.2 m LT. | 3 | H | RT. | 222.599 | 221.547 | 1.05 | |
| 010 | 25 | 19+975.5 | LINCOLN ST. | INLET | 5.3 m RT. | 3 | H | LT. | 222.704 | 221.652 | 1.05 | |
| 020 | 26 | 19+989 | LINCOLN ST. | INLET | 5.3 m LT. | 3 | H | RT. | 222.640 | 221.588 | 1.05 | |
| 020 | 27 | 10+835.5 | C.T.H. "N" | INLET | 6.9 m LT. | 3 | H | LT. | 222.827 | 221.775 | 1.05 | |
| 020 | 28 | 10+923 | C.T.H. "N" | INLET | 14.4 m RT. | 3 | H | LT. | 223.200 | 222.148 | 1.05 | CONNECT #28 TO EXIST. 300 mm STORM LEAD |
| 030 | 29 | 19+965 | MAES AVE. | MANHOLE | 2.2 m LT. | 1 | J | --- | 221.800 | 220.518 | 1.28 | CONNECT #29 TO EXIST. 250 mm S.S |
| 030 | 30 | 19+966 | MAES AVE. | INLET | 11.3 m LT. | 3 | H | RT. | 221.626 | 220.574 | 1.05 | |
| 030 | 31 | 19+967 | MAES AVE. | INLET | 7.5 m RT. | 3 | H | LT. | 221.606 | 220.554 | 1.05 | |
| 030 | 32 | 20+031 | MAES AVE. | INLET | 8.7 m LT. | 3 | H | LT. | 221.612 | 220.560 | 1.05 | |

| | | MANHOLES | COVERS | INLETS | COVERS |
|--------|-----------|----------|----------|--------|----------|
| | | TYPE 1 | TYPE "J" | TYPE 3 | TYPE "H" |
| | | EACH | EACH | EACH | EACH |
| 010 | SUBTOTALS | 3 | 3 | 7 | 7 |
| 020 | SUBTOTALS | 3 | 3 | 15 | 15 |
| 030 | SUBTOTALS | 1 | 1 | 3 | 3 |
| TOTALS | | 7 | 7 | 25 | 25 |

STORM SEWER SUMMARY

| GROUP CODE NO. | LOCATION | | DIAMETER | | TYPE | ELEVATIONS | | REMARKS |
|----------------|----------|-----|----------|--------|--------------------------------|------------|-----------|--|
| | FROM | TO | 300 mm | 375 mm | | INLET | DISCHARGE | |
| | | | m | m | | | | |
| 020 | 2 | 1 | 14 | | R.C.P., CLASS III, STORM SEWER | 220.930 | 220.500 | |
| 020 | 4 | 3 | 20 | | R.C.P., CLASS III, STORM SEWER | 220.000 | 219.847 | |
| 020 | 5 | 4 | 10 | | R.C.P., CLASS III, STORM SEWER | 220.305 | 220.205 | |
| 020 | 6 | 5 | 9 | | R.C.P., CLASS III, STORM SEWER | 220.525 | 220.305 | |
| 020 | 7 | 5 | 13 | | R.C.P., CLASS III, STORM SEWER | 220.565 | 220.305 | |
| 020 | 8 | 4 | 1 | | R.C.P., CLASS III, STORM SEWER | 220.220 | 220.205 | |
| 020 | 9 | 9A | 3 | | R.C.P., CLASS III, STORM SEWER | 220.789 | 220.507 | |
| 020 | 10 | 9 | 7 | | R.C.P., CLASS III, STORM SEWER | 220.859 | 220.789 | |
| 020 | 11 | 10 | 2 | | R.C.P., CLASS III, STORM SEWER | 220.909 | 220.859 | |
| 020 | 12 | 11 | 15 | | R.C.P., CLASS III, STORM SEWER | 221.059 | 220.909 | |
| 010 | 13 | 13A | 12 | | R.C.P., CLASS III, STORM SEWER | 222.322 | 221.728 | |
| 010 | 14 | 13 | 20 | | R.C.P., CLASS III, STORM SEWER | 222.522 | 222.322 | |
| 010 | 16 | 15 | 2 | | R.C.P., CLASS III, STORM SEWER | 221.461 | 221.367 | |
| 020 | 17 | 15 | 9 | | R.C.P., CLASS III, STORM SEWER | 221.457 | 221.367 | |
| 010 | 18 | 15 | 13 | | R.C.P., CLASS III, STORM SEWER | 220.488 | 220.433 | |
| 020 | 19 | 18 | 17 | | R.C.P., CLASS III, STORM SEWER | 220.931 | 220.488 | |
| 020 | 20 | 19 | 4 | | R.C.P., CLASS III, STORM SEWER | 221.762 | 221.722 | |
| 010 | 21 | 18 | 28 | | R.C.P., CLASS III, STORM SEWER | 221.547 | 221.267 | |
| 010 | 22 | 21 | 4 | | R.C.P., CLASS III, STORM SEWER | 221.587 | 221.547 | |
| 010 | 23 | 18 | 13 | | R.C.P., CLASS III, STORM SEWER | 220.693 | 220.563 | |
| 010 | 24 | 23 | 20 | | R.C.P., CLASS III, STORM SEWER | 221.547 | 221.347 | |
| 010 | 25 | 24 | 10 | | R.C.P., CLASS III, STORM SEWER | 221.652 | 221.547 | |
| 010 | 26 | 23 | 15 | | R.C.P., CLASS III, STORM SEWER | 221.588 | 221.438 | |
| 020 | 27 | 23 | 19 | | R.C.P., CLASS III, STORM SEWER | 221.775 | 221.585 | |
| 030 | 30 | 29 | 9 | | R.C.P., CLASS III, STORM SEWER | 220.574 | 220.484 | |
| 030 | 31 | 29 | 10 | | R.C.P., CLASS III, STORM SEWER | 220.554 | 220.454 | |
| 030 | 32 | 32A | 6 | | R.C.P., CLASS III, STORM SEWER | 220.560 | 220.248 | REMOVE INLET #32A. CONNECT TO EXIST. 300 mm STORM LEAD |

| | | DIAMETER | | TYPE |
|--------|-----------|----------|--------|--------------------------------|
| | | 300 mm | 375 mm | |
| | | m | m | |
| 010 | SUBTOTALS | 124 | 13 | R.C.P., CLASS III, STORM SEWER |
| 020 | SUBTOTALS | 143 | 0 | R.C.P., CLASS III, STORM SEWER |
| 030 | SUBTOTALS | 25 | 0 | R.C.P., CLASS III, STORM SEWER |
| TOTALS | | 292 | 13 | |

ORIGINAL D.D. PROJECT NO. 44026100 DATE REVISION: 11/27/98 FILE NAME: PLOT NAME: SCALE: PLOT NO. 1 OF 1 DATE OF PLOT = 03/19/99 DESIGN FILE IS I:\440261\01\misc.dgn

MISCELLANEOUS QUANTITIES

HWY: C.T.H. "N"

COUNTY: OUTAGAME

STATE PROJECT NO: 4676-03-71

SHEET NO: 3F M

WISDOT: MSHT-2

ALL QUANTITIES ARE GROUP 050

TRAFFIC CONTROL

| STATION | LOCATION | TRAFFIC CONTROL STAGE | TYPE | SIGNS | | | DRUMS | | | WARNING LIGHTS TYPE 'A' | | WARNING LIGHTS TYPE 'C' | | FLEXIBLE TUBULAR MARKER | | REMARKS |
|-----------------|--------------------------|-----------------------|----------|-------------|------|------------|-------|------|------|-------------------------|------|-------------------------|------|-------------------------|-------------------|--|
| | | | | NUMBER EACH | DAYS | POSTS EACH | EACH | DAYS | EACH | DAYS | EACH | DAYS | EACH | POSTS EACH | MARKER BASES EACH | |
| GROUP CODE 050 | | | | | | | | | | | | | | | | |
| KIMBERLY AVE. | C.T.H. 'N' | 2 | R11-2 | 2 | 28 | - | - | - | 2 | 28 | 4 | 56 | - | - | - | ROAD CLOSED |
| 9+590 | C.T.H. 'N', RT. | 2 | W020-1A | 1 | 70 | 1 | - | - | - | - | - | - | - | - | - | ROAD WORK AHEAD |
| 9+740 | C.T.H. 'N', RT. | 2 | W020-1C | 1 | 70 | 1 | - | - | - | - | - | - | - | - | - | ROAD WORK 1000 FT |
| 9+890 | C.T.H. 'N', RT. | 2 | W020-5A | 1 | 70 | 1 | - | - | - | - | - | - | - | - | - | RIGHT LANE CLOSED AHEAD |
| 9+908 | C.T.H. 'N', RT. | 2 | W020-3D | 1 | 14 | 1 | - | - | - | - | - | - | - | - | - | ROAD CLOSED 500 FEET |
| 9+908 | C.T.H. 'N', RT. | 1,3 | W020-1A | 1 | 114 | 1 | - | - | - | - | - | - | - | - | - | ROAD WORK AHEAD |
| 9+983 | C.T.H. 'N', RT. | 1 | W020-55A | 1 | 66 | 1 | - | - | - | - | - | - | - | - | - | LEFT LANE CLOSED AHEAD |
| 10+010 | C.T.H. 'N', RT. | 2 | W09-27 | 1 | 56 | 1 | - | - | - | - | - | - | - | - | - | LANE ENDS MERGE LEFT |
| 10+030 | PROSPECT ST. | 2 | R11-2 | 1 | 5 | - | - | - | 4 | 20 | 8 | 40 | - | - | - | ROAD CLOSED |
| EDWARDS ST. | PROSPECT ST. | 2 | R11-2 | 2 | 10 | - | - | - | 2 | 10 | 4 | 20 | - | - | - | ROAD CLOSED |
| 10+040 - 10+106 | C.T.H. 'N' | 2 | - | - | - | - | 8 | 416 | - | - | - | 8 | 416 | - | - | - |
| 10+055 | C.T.H. 'N' | 2 | R11-2 | 1 | 14 | - | - | - | 4 | 56 | 8 | 112 | - | - | - | ROAD CLOSED |
| 10+058 - 10+087 | C.T.H. 'N', RT. | 1 | - | - | - | - | 8 | 528 | - | - | - | 8 | 528 | - | - | - |
| 10+084 | C.T.H. 'N', RT. | 1 | R3-2 | 1 | 66 | 1 | - | - | - | - | - | - | - | - | - | NO LEFT TURN SYMBOL |
| 10+103 | PROSPECT ST., LT.1,2,3,4 | 1 | W020-1A | 1 | 683 | 1 | - | - | - | - | - | - | - | - | - | ROAD WORK AHEAD |
| 10+104 | C.T.H. 'N' | 2 | R3-2 | 1 | 56 | - | - | - | - | - | - | - | - | - | - | NO LEFT TURN SYMBOL |
| 10+106 | C.T.H. 'N', LT. | 1 | R3-2 | 1 | 66 | - | - | - | 1 | 66 | 2 | 132 | - | - | - | NO LEFT TURN SYMBOL |
| 10+104 - 10+344 | C.T.H. 'N', RT. | 1 | - | - | - | - | 33 | 2178 | - | - | - | - | - | - | - | - |
| 10+110 - 10+334 | C.T.H. 'N', LT. | 2 | - | - | - | - | 50 | 700 | - | - | - | 18 | 252 | - | - | - |
| 10+110 - 10+334 | C.T.H. 'N', LT. | 2 | - | - | - | - | 46 | 2576 | - | - | - | 14 | 784 | - | - | - |
| 10+110 - 10+140 | C.T.H. 'N', LT. | 3 | - | - | - | - | 13 | 624 | - | - | - | - | - | - | - | - |
| 10+113 | C.T.H. 'N', LT. | 2 | R3-5S | 1 | 56 | - | - | - | - | - | - | - | - | - | - | - |
| 10+113 | C.T.H. 'N' | 2 | W01-6 | 1 | 14 | - | - | - | 3 | 42 | 6 | 84 | - | - | - | STRAIGHT ARROW ONLY NIGHT ARROW SYMBOL - LEFT |
| 10+124 - 10+357 | C.T.H. 'N', RT. | 1 | - | - | - | - | - | - | - | - | - | - | - | 24 | 24 | - |
| 10+135 | C.T.H. 'N', RT. | 1 | W06-3 | 1 | 66 | 1 | - | - | - | - | - | - | - | - | - | TWO WAY TRAFFIC SYMBOL |
| 10+136 | C.T.H. 'N', LT. | 2 | W012-1D | 1 | 56 | - | - | - | - | - | - | - | - | - | - | DOUBLE DOWN ARROW |
| 10+140 | C.T.H. 'N', RT. | 1,4 | W020-1A | 1 | 499 | 1 | - | - | - | - | - | - | - | - | - | ROAD WORK AHEAD |
| 10+147 | C.T.H. 'N' | 2 | W06-3 | 1 | 70 | 1 | - | - | - | - | - | - | - | - | - | TWO WAY TRAFFIC SYMBOL |
| 10+156 - 10+353 | C.T.H. 'N', LT. | 2 | - | - | - | - | - | - | - | - | - | - | - | 17 | 17 | - |
| 10+175 | C.T.H. 'N', RT. | 3,4 | W020-5R | 1 | 307 | 1 | - | - | - | - | - | - | - | - | - | RIGHT LANE CLOSED AHEAD |
| 10+240 | C.T.H. 'N', RT. | 1 | W020-1D | 1 | 240 | 1 | - | - | - | - | - | - | - | - | - | ROAD WORK 500 FEET |
| 10+240 - 10+382 | C.T.H. 'N' | 3 | - | - | - | - | 38 | 1824 | - | - | - | 38 | 1824 | - | - | - |
| 10+240 - 10+382 | C.T.H. 'N' | 4 | - | - | - | - | 24 | 6216 | - | - | - | 24 | 6216 | - | - | - |
| 10+292 | C.T.H. 'N' | 3 | R3-2 | 1 | 48 | - | - | - | 1 | 48 | 2 | 96 | - | - | - | NO LEFT TURN SYMBOL |
| 10+300 | C.T.H. 'N', RT. | 2 | R1-1 | 1 | 70 | 1 | - | - | - | - | - | - | - | - | - | STOP SIGN |
| 10+302 | C.T.H. 'N', RT. | 1 | W054-57 | 1 | 45 | 1 | - | - | - | - | - | - | - | - | - | TRUCKS ENTERING - USE WHEN HAULING BORROW |
| 10+308 | C.T.H. 'N' | 2 | W5-52R | 1 | 70 | 1 | - | - | - | - | - | - | - | - | - | CLEARANCE STRIPER |
| 10+310 | C.T.H. 'N', RT. | 3,4 | W01-3L | 1 | 307 | 1 | - | - | - | - | - | - | - | - | - | LEFT REVERSE TURN SYMBOL |
| 10+310 | C.T.H. 'N', RT. | 3,4 | W013-1 | 1 | 307 | 1 | - | - | - | - | - | - | - | - | - | 25 M.P.H. |
| 10+319 | C.T.H. 'N' | 1 | R3-2 | 1 | 66 | 1 | - | - | - | - | - | - | - | - | - | NO LEFT TURN SYMBOL |
| 10+325 | C.T.H. 'N', RT. | 3,4 | R11-2 | 1 | 307 | - | - | - | 1 | 382 | 2 | 764 | - | - | - | ROAD CLOSED |
| 10+350 | C.T.H. 'N' | 4 | W5-52R | 1 | 259 | 1 | - | - | - | - | - | - | - | - | - | CLEARANCE STRIPER |
| 10+350-10+380 | C.T.H. 'N', LT. | 3,4 | - | - | - | - | - | - | - | - | - | - | - | 5 | 5 | - |
| 10+360 | C.T.H. 'N' | 3,4 | W06-3 | 1 | 307 | 1 | - | - | - | - | - | - | - | - | - | TWO WAY TRAFFIC SYMBOL |
| 10+360 | C.T.H. 'N', RT. | 3,4 | - | - | - | - | - | - | 3 | 921 | 6 | *** | - | - | - | - |
| 10+361 | C.T.H. 'N' | 1 | W06-3 | 1 | 66 | 1 | - | - | - | - | - | - | - | - | - | TWO WAY TRAFFIC SYMBOL |
| 10+370 | C.T.H. 'N', LT. | 1 | W054-57 | 1 | 45 | 1 | - | - | - | - | - | - | - | - | - | TRUCKS ENTERING - USE WHEN HAULING BORROW |
| 10+386 | C.T.H. 'N' | 3 | W5-52R | 1 | 48 | 1 | - | - | - | - | - | - | - | - | - | CLEARANCE STRIPER |
| 10+700 | C.T.H. 'N' | 3,4 | W01-3L | 1 | 307 | 1 | - | - | - | - | - | - | - | - | - | LEFT REVERSE TURN SYMBOL |
| 10+700 | C.T.H. 'N' | 3,4 | W013-1 | 1 | 307 | 1 | - | - | - | - | - | - | - | - | - | 25 M.P.H. |
| 10+712 - 10+930 | C.T.H. 'N' | 2 | - | - | - | - | 25 | 1750 | - | - | - | - | - | - | - | - |
| 10+720 | C.T.H. 'N', LT. | 3 | W06-3 | 1 | 48 | 1 | - | - | - | - | - | - | - | - | - | TWO WAY TRAFFIC SYMBOL |
| 10+722 - 10+930 | C.T.H. 'N' | 3 | - | - | - | - | 42 | 2016 | - | - | - | 8 | 384 | - | - | - |
| 10+734 - 10+801 | C.T.H. 'N' | 4 | - | - | - | - | 12 | 3108 | - | - | - | 12 | 3108 | - | - | - |
| 10+765 | C.T.H. 'N', LT. | 4 | W06-3 | 1 | 259 | 1 | - | - | - | - | - | - | - | - | - | TWO WAY TRAFFIC SYMBOL |
| 10+795 - 10+810 | C.T.H. 'N' | 1 | - | - | - | - | 3 | 918 | - | - | - | - | - | - | - | - |
| 10+810 | C.T.H. 'N' | 1 | R3-2 | 1 | 66 | 1 | - | - | - | - | - | - | - | - | - | NO LEFT TURN SYMBOL |
| 10+818 | C.T.H. 'N', RT. | 3 | R5-1 | 1 | 48 | 1 | - | - | - | - | - | - | - | - | - | DO NOT ENTER |
| 10+824 | C.T.H. 'N' | 2 | R11-2 | 1 | 70 | - | - | - | 2 | 140 | 4 | 280 | - | - | - | ROAD CLOSED |
| 10+824 | C.T.H. 'N', RT. | 3 | R11-2 | 1 | 48 | - | - | - | 1 | 48 | 2 | 96 | - | - | - | ROAD CLOSED |
| 10+824 | C.T.H. 'N', RT. | 3 | R3-2 | 1 | 48 | - | - | - | 1 | 48 | 2 | 96 | - | - | - | NO LEFT TURN SYMBOL |
| 10+825 - 10+930 | C.T.H. 'N' | 1 | - | - | - | - | 12 | 792 | - | - | - | - | - | - | - | - |
| 10+840 | C.T.H. 'N', LT. | 1 | W04-2R | 1 | 240 | 1 | - | - | - | - | - | - | - | - | - | PAVEMENT WIDTH TRANSITION SYMBOL - RIGHT |
| 10+840 | C.T.H. 'N' | 1 | R3-2 | 1 | 66 | 1 | - | - | - | - | - | - | - | - | - | NO LEFT TURN SYMBOL |
| 10+840 | C.T.H. 'N', LT. | 4 | W04-2L | 1 | 259 | 1 | - | - | - | - | - | - | - | - | - | PAVEMENT WIDTH TRANSITION SYMBOL - LEFT |
| 10+840 | C.T.H. 'N', LT. | 2,3 | R3-2 | 1 | 118 | 1 | - | - | - | - | - | - | - | - | - | NO LEFT TURN SYMBOL |
| 10+878 | C.T.H. 'N', RT. | 1 | W5-52R | 1 | 66 | 1 | - | - | - | - | - | - | - | - | - | CLEARANCE STRIPER |
| 10+880 | C.T.H. 'N', LT. | 1 | W05-1 | 1 | 240 | 1 | - | - | - | - | - | - | - | - | - | ROAD NARROWS |
| 10+880 | C.T.H. 'N', LT. | 4 | W020-5A | 1 | 259 | 1 | - | - | - | - | - | - | - | - | - | LEFT LANE CLOSED AHEAD |
| 10+913 | C.T.H. 'N', RT. | 1 | R3-2 | 1 | 66 | 1 | - | - | - | - | - | - | - | - | - | NO LEFT TURN SYMBOL |

ORIGINAL D.D. DATE: 11/27/98
 PROJECT NO. 44026100 FILE NAME:
 REVISION BY: SCALE:
 DATE REVISION: 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, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62
 CB2 TABLE = 4plo7210serfsmv80pp.tbl
 DATE OF PLOT = 04/22/99
 PLOT NO.
 DESIGN FILE IS I:\440261\1.dgn\misc.dgn

TRAFFIC CONTROL (CON'T.)

TRAFFIC CONTROL

| STATION | LOCATION | TRAFFIC CONTROL STAGE | TYPE | SIGNS | | DRUMS | | WARNING LIGHTS TYPE 'A' | | WARNING LIGHTS TYPE 'C' | | FLEXIBLE TUBULAR MARKER POSTS | | TUBULAR MARKER BASES | | REMARKS |
|-----------------|-------------------|-----------------------|----------|-------------|--------|------------|------|-------------------------|-------|-------------------------|--------|-------------------------------|------|----------------------|---|--|
| | | | | NUMBER EACH | DAYS | POSTS EACH | EACH | DAYS | EACH | DAYS | EACH | DAYS | EACH | EACH | | |
| 10+915 | C.T.H. 'N', LT. | 1,4 | W020-1A | 1 | 499 | 1 | - | - | - | - | - | - | - | - | - | ROAD WORK AHEAD |
| 10+918 | C.T.H. 'N' | 2 | W01-3R | 1 | 70 | 1 | - | - | - | - | - | - | - | - | - | RIGHT REVERSE TURN |
| 10+926 | C.T.H. 'N', 97m L | 1,2,3 | W020-1A | 1 | 184 | 1 | - | - | - | - | - | - | - | - | - | ROAD WORK AHEAD (PLACE ON STH 96) |
| 10+928 | C.T.H. 'N', LT. | 1 | W01-6 | 1 | 66 | - | - | - | 1 | 66 | 2 | 132 | - | - | - | NIGHT ARROW SYMBOL - LEFT |
| 10+928 | C.T.H. 'N', LT. | 1 | R11-2 | 1 | 66 | - | - | - | 4 | 264 | 8 | 528 | - | - | - | ROAD CLOSED |
| 10+928 | C.T.H. 'N', RT. | 2 | R11-2 | 1 | 70 | - | - | - | 6 | 420 | 1 | 840 | - | - | - | ROAD CLOSED |
| 10+930 | C.T.H. 'N' | 3 | R4-7AR | 1 | 48 | - | - | - | 1 | 48 | 2 | 96 | - | - | - | KEEP RIGHT |
| 10+945 | C.T.H. 'N', 102m | 1,2,3 | W020-1A | 1 | 184 | - | - | - | - | - | - | - | - | - | - | ROAD WORK AHEAD (PLACE ON STH 96) |
| 10+947 | C.T.H. 'N', RT. | 1 | R3-2 | 1 | 66 | 1 | - | - | - | - | - | - | - | - | - | NO LEFT TURN SYMBOL |
| 11+000 | C.T.H. 'N', LT. | 2,3 | W020-1D | 1 | 118 | 1 | - | - | - | - | - | - | - | - | - | ROAD WORK 500 FT |
| 11+150 | C.T.H. 'N', RT. | 2,3 | W020-1C | 1 | 118 | 1 | - | - | - | - | - | - | - | - | - | ROAD WORK 1000 FT |
| 11+155 | C.T.H. 'N', RT. | 1 | W020-55A | 1 | 66 | 1 | - | - | - | - | - | - | - | - | - | LEFT LANE CLOSED AHEAD |
| 11+300 | C.T.H. 'N', RT. | 2,3 | W020-1A | 1 | 118 | 1 | - | - | - | - | - | - | - | - | - | ROAD WORK AHEAD |
| 11+305 | C.T.H. 'N', RT. | 1 | W020-1C | 1 | 66 | 1 | - | - | - | - | - | - | - | - | - | ROAD WORK 1000 FT |
| 11+455 | C.T.H. 'N', RT. | 1 | W020-1A | 1 | 66 | 1 | - | - | - | - | - | - | - | - | - | ROAD WORK AHEAD |
| 19+920 | LINCOLN ST., RT. | 1,2,3,4 | W020-1A | 1 | 683 | 1 | - | - | - | - | - | - | - | - | - | ROAD WORK AHEAD |
| 20+025 | LINCOLN ST. | 2 | R11-2 | 1 | 70 | - | - | - | 2 | 140 | 4 | 280 | - | - | - | ROAD CLOSED |
| 20+100 | LINCOLN ST., LT. | 1,3,4 | W020-1A | 1 | 613 | 1 | - | - | - | - | - | - | - | - | - | ROAD WORK AHEAD |
| GRAND AVE. | LINCOLN ST., LT. | 2 | W020-3A | 1 | 70 | 1 | - | - | - | - | - | - | - | - | - | ROAD CLOSED AHEAD |
| RAVINE ST. | MADISON ST., RT. | 2 | W020-3A | 1 | 70 | 1 | - | - | - | - | - | - | - | - | - | ROAD CLOSED AHEAD |
| 29+915 | MADISON ST., RT. | 1 | W020-1A | 1 | 305 | 1 | - | - | - | - | - | - | - | - | - | ROAD WORK AHEAD |
| 29+936 | MADISON ST. | 2 | R11-2 | 1 | 70 | 1 | - | - | 2 | 140 | 4 | 280 | - | - | - | ROAD CLOSED |
| 19+728 | MAES AVE., RT. | 1 | W020-1A | 1 | 66 | 1 | - | - | - | - | - | - | - | - | - | ROAD WORK AHEAD |
| 19+778 | MAES AVE., RT. | 1 | W020-55A | 1 | 66 | 1 | - | - | - | - | - | - | - | - | - | LEFT LANE CLOSED AHEAD |
| 19+805 | MAES AVE., RT. | 2,3 | W020-1A | 1 | 118 | - | - | - | - | - | - | - | - | - | - | ROAD WORK AHEAD |
| 19+875 | MAES AVE., 87m RT | 1,2 | W020-1A | 1 | 136 | - | - | - | - | - | - | - | - | - | - | ROAD WORK AHEAD (PLACE ON LINCOLN ST.) |
| 19+876 | MAES AVE., LT. | 1 | R11-2 | 1 | 66 | - | - | - | 4 | 264 | 8 | 528 | - | - | - | ROAD CLOSED |
| 19+876 | MAES AVE. | 2 | W01-6 | 1 | 70 | - | - | - | 1 | 70 | 2 | 140 | - | - | - | NIGHT ARROW SYMBOL - LEFT |
| 19+876 | MAES AVE., RT. | 2 | R11-2 | 1 | 70 | - | - | - | 2 | 140 | 4 | 280 | - | - | - | ROAD CLOSED |
| 19+880 - 20+000 | MAES AVE. | 1 | - | - | - | - | 13 | 858 | - | - | - | - | - | - | - | - |
| 19+880 - 20+000 | MAES AVE. | 2 | - | - | - | - | 10 | 700 | - | - | - | - | - | - | - | - |
| 19+880 - 20+000 | MAES AVE. | 3 | - | - | - | - | 29 | 1392 | - | - | - | - | - | - | - | - |
| 19+885 - 19+975 | MAES AVE., RT. | 1 | - | - | - | - | - | - | - | - | - | - | 10 | 10 | - | - |
| 19+885-19+975 | MAES AVE., LT. | 2 | - | - | - | - | - | - | - | - | - | - | 10 | 10 | - | - |
| 19+888 | MAES AVE. | 1 | W01-3R | 1 | 66 | 1 | - | - | - | - | - | - | - | - | - | RIGHT REVERSE TURN SYMBO. |
| 19+888 | MAES AVE., RT. | 1 | W06-3 | 1 | 66 | 1 | - | - | - | - | - | - | - | - | - | TWO WAY TRAFFIC SYMBOL |
| 19+888 | MAES AVE. | 2 | W06-3 | 1 | 70 | 1 | - | - | - | - | - | - | - | - | - | TWO WAY TRAFFIC SYMBOL |
| 19+955 | MAES AVE., LT. | 2 | W06-3 | 1 | 70 | 1 | - | - | - | - | - | - | - | - | - | TWO WAY TRAFFIC SYMBOL |
| 19+972 | MAES AVE. | 1 | W06-3 | 1 | 66 | 1 | - | - | - | - | - | - | - | - | - | TWO WAY TRAFFIC SYMBOL |
| 19+982 - 19+998 | MAES AVE. | 2 | R11-2 | 1 | 70 | - | - | 5 | 350 | 1 | 700 | - | - | - | - | ROAD CLOSED |
| 20+027 | MAES AVE., LT. | 1 | W01-4L | 1 | 66 | 1 | - | - | - | - | - | - | - | - | - | LEFT REVERSE CURVE SYMBOL |
| 20+088 | MAES AVE. | 2 | R11-2 | 1 | 70 | - | - | 3 | 210 | 6 | 420 | - | - | - | - | ROAD CLOSED |
| 20+130 | MAES AVE., LT. | 1,3 | W020-1A | 1 | 114 | 1 | - | - | - | - | - | - | - | - | - | ROAD WORK AHEAD |
| EDWARDS ST. | MAES AVE., LT. | 2 | R11-2 | 2 | 140 | - | - | 2 | 140 | 4 | 280 | - | - | - | - | ROAD CLOSED |
| | UNDISTRIBUTED | 1,2 | R5-7 | 6 | 816 | - | - | 6 | 816 | - | - | - | - | - | - | SIDEWALK CLOSED |
| | UNDISTRIBUTED | 3,4 | R5-7 | 2 | 614 | - | - | 2 | 614 | - | - | - | - | - | - | SIDEWALK CLOSED |
| TOTAL | | | | | 13,662 | | | 26,596 | 5,491 | 8,122 | 13,512 | 66 | 66 | | | |

TRAFFIC CONTROL SURVEILLANCE AND MAINTENANCE

| LOCATION | QUANTITY DAYS |
|--------------------|---------------|
| GROUP CODE 050 | |
| PROJECT 4676-03-71 | 683 |

TURBIDITY BARRIER

| STATION | LOCATION | QUANTITY m2 |
|----------------|------------|-------------|
| GROUP CODE 040 | | |
| 10+458 | C.T.H. "N" | 22 |
| 10+466 | C.T.H. "N" | 66 |
| 10+652 | C.T.H. "N" | 95 |
| 10+664 | C.T.H. "N" | 58 |
| 10+668 | C.T.H. "N" | 47 |
| TOTAL | | 288 |

EROSION CONTROL ITEMS

| STATION-STATION | LOCATION | SILT FENCE | | | EROSION MAT CLASS1, TYPE B | | FILTER BAGS | | |
|-----------------|----------------|-------------|-------------|---------------|----------------------------|--------------|----------------|----------------|------------------|
| | | DELIVERED m | INSTALLED m | MAINTENANCE m | DELIVERED m2 | INSTALLED m2 | DELIVERED EACH | INSTALLED EACH | MAINTENANCE EACH |
| GROUP CODE 010 | | | | | | | | | |
| 10+383-10+422 | C.T.H. "N" RT. | --- | --- | --- | 580 | 580 | --- | --- | --- |
| 10+383-10+426 | C.T.H. "N" LT. | --- | --- | --- | 410 | 410 | --- | --- | --- |
| 10+680-10+702 | C.T.H. "N" RT. | --- | --- | --- | 180 | 180 | --- | --- | --- |
| 10+685-10+716 | C.T.H. "N" LT. | --- | --- | --- | 135 | 135 | --- | --- | --- |
| SOUTH ABUTMENT | C.T.H. "N" | 157 | 157 | 157 | --- | --- | --- | --- | --- |
| PIER NO. 1 | C.T.H. "N" | 41 | 41 | 41 | --- | --- | --- | --- | --- |
| NORTH ABUTMENT | C.T.H. "N" | 178 | 178 | 178 | --- | --- | --- | --- | --- |
| UNDISTRIBUTED | INLETS | --- | --- | --- | --- | --- | 240 | 240 | 240 |
| TOTALS | | 376 | 376 | 376 | 1,305 | 1,305 | 240 | 240 | 240 |

ORIGINAL D.J.D. DATE: 11/27/98
 PROJECT NO. 44026L00
 REVISION BY: DATE REVISION:
 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, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62.
 PLOT NAME: SCALE:
 DESIGN FILE IS: I:\44026L\03\misc.dgn
 DATE OF PLOT: 04/22/99
 PLOT NA: I:\44026L\03\misc.dgn

ELECTRIC WIRE #10

| INTERSECTION | JUNCTION NUMBER | | EQUIPMENT GROUNDING CONDUCTOR | GROUNDED CONDUCTOR |
|--------------|-----------------|----|-------------------------------|--------------------|
| | FROM | TO | | |
| MAES AVE. | 1 | 6 | - | 20 |
| MAES AVE. | 6 | 8 | - | 15 |
| MAES AVE. | 8 | 9 | - | 24 |
| MAES AVE. | 9 | 12 | - | 8 |
| MAES AVE. | 12 | 13 | - | 29 |
| MAES AVE. | 13 | 16 | - | 14 |
| MAES AVE. | 16 | 17 | - | 24 |
| MAES AVE. | 17 | 19 | - | 15 |
| MAES AVE. | 19 | 21 | - | 18 |
| MAES AVE. | 21 | 4 | - | 18 |
| MAES AVE. | 4 | 1 | - | 13 |
| MAES AVE. | 1 | 6 | 20 | - |
| MAES AVE. | 6 | 8 | 15 | - |
| MAES AVE. | 8 | 9 | 24 | - |
| MAES AVE. | 9 | 12 | 8 | - |
| MAES AVE. | 12 | 13 | 29 | - |
| MAES AVE. | 13 | 16 | 14 | - |
| MAES AVE. | 16 | 17 | 24 | - |
| MAES AVE. | 17 | 19 | 15 | - |
| MAES AVE. | 19 | 21 | 18 | - |
| MAES AVE. | 21 | 4 | 18 | - |
| MAES AVE. | 4 | 1 | 13 | - |
| MAES AVE. | 1 | 6 | 2 | - |
| MAES AVE. | 6 | 8 | 2 | - |
| MAES AVE. | 8 | 9 | 2 | - |
| MAES AVE. | 9 | 12 | 2 | - |
| MAES AVE. | 12 | 13 | 4 | - |
| MAES AVE. | 13 | 16 | 2 | - |
| MAES AVE. | 16 | 17 | 2 | - |
| MAES AVE. | 17 | 19 | 2 | - |
| MAES AVE. | 19 | 21 | 2 | - |
| MAES AVE. | 21 | 22 | 2 | - |
| SUBTOTAL | | | 221 | 198 |
| * MAIN ST. | 2 | 3A | - | 27 |
| * MAIN ST. | 3A | 4 | - | 12 |
| * MAIN ST. | 4 | 6 | - | 24 |
| * MAIN ST. | 6 | 10 | - | 26 |
| * MAIN ST. | 2 | 3A | 27 | - |
| * MAIN ST. | 4 | 6 | 24 | - |
| * MAIN ST. | 3A | 4 | 12 | - |
| * MAIN ST. | 6 | 10 | 26 | - |
| * MAIN ST. | 4 | 5 | 2 | - |
| SUBTOTAL | | | 91 | 89 |
| TOTALS | | | 312 | 287 |

*- NON-PARTICIPATING

CONCRETE BASES

| STATION | JUNCTION NUMBER | LOCATION | OFFSET m | TYPE 1 EACH | TYPE 2 EACH |
|------------|-----------------|------------|------------|-------------|-------------|
| 19+980.5 | 2 | MAES AVE. | 16.5 m LT. | 1 | - |
| 19+989 | 4 | MAES AVE. | 12 m LT. | - | 1 |
| 19+996.5 | 6 | MAES AVE. | 16 m LT. | 1 | - |
| 20+021.5 | 9 | MAES AVE. | 16 m LT. | - | 1 |
| 20+025 | 12 | MAES AVE. | 12 m LT. | 1 | - |
| 20+013 | 13 | MAES AVE. | 9 m RT. | - | 1 |
| 20+004 | 16 | MAES AVE. | 15 m RT. | 1 | - |
| 19+026.5 | 17 | MAES AVE. | 15.5 m RT. | - | 1 |
| 19+979 | 19 | MAES AVE. | 9 m RT. | 1 | - |
| 19+979 | 21 | MAES AVE. | 4 m LT. | 1 | - |
| SUBTOTAL | | | | 6 | 4 |
| * 10+928.5 | | C.T.H. "N" | 8 m RT. | - | 1 |
| SUBTOTAL | 4 | | | - | 1 |
| TOTALS | | | | 6 | 5 |

*- NON-PARTICIPATING

ALL QUANTITIES ARE GROUP 030

NON-METALLIC CONDUIT, SCHEDULE 40

| INTERSECTION | JUNCTION NUMBER | | 25 mm | 50 mm | 75 mm |
|--------------|-----------------|----|-------|-------|-------|
| | FROM | TO | m | m | m |
| MAES AVE. | 1 | 2 | 2 | 2 | - |
| MAES AVE. | 1 | 1A | 2 | 2 | 2 |
| MAES AVE. | 1 | 5 | - | - | 10 |
| MAES AVE. | 5 | 6 | - | 2 | - |
| MAES AVE. | 5 | 7 | - | - | 11 |
| MAES AVE. | 7 | 8 | - | 2 | - |
| MAES AVE. | 7 | 10 | - | - | 18 |
| MAES AVE. | 10 | 9 | - | 3 | - |
| MAES AVE. | 10 | 11 | - | - | 4 |
| MAES AVE. | 11 | 12 | - | 2 | - |
| MAES AVE. | 11 | 14 | - | - | 24 |
| MAES AVE. | 14 | 13 | - | 2 | - |
| MAES AVE. | 14 | 15 | - | - | 10 |
| MAES AVE. | 15 | 16 | - | 2 | - |
| MAES AVE. | 15 | 18 | - | - | 19 |
| MAES AVE. | 18 | 17 | - | 2 | - |
| MAES AVE. | 18 | 20 | - | - | 10 |
| MAES AVE. | 20 | 19 | - | 2 | - |
| MAES AVE. | 20 | 22 | - | - | 14 |
| MAES AVE. | 22 | 21 | - | 2 | - |
| MAES AVE. | 22 | 3 | - | - | 13 |
| MAES AVE. | 3 | 4 | - | 2 | - |
| MAES AVE. | 3 | 1 | - | - | 10 |
| SUBTOTAL | | | 4 | 23 | 145 |
| * MAIN ST. | 2 | 3A | - | - | 10 |
| * MAIN ST. | 3A | 5 | - | - | 11 |
| * MAIN ST. | 5 | 4 | - | 2 | - |
| * MAIN ST. | 5 | 6 | - | - | 20 |
| * MAIN ST. | 6 | 10 | - | - | 8 |
| SUBTOTAL | | | - | 2 | 49 |
| TOTALS | | | 4 | 25 | 194 |

*- NON-PARTICIPATING

PULL BOXES

| STATION | JUNCTION NUMBER | LOCATION | OFFSET m | PULL BOX 600 mm x 900 mm EACH |
|----------|-----------------|------------|------------|-------------------------------|
| 19+980.5 | 1A | MAES AVE. | 17 m LT. | 1 |
| 19+988.5 | 3 | MAES AVE. | 12.5 m LT. | 1 |
| 19+996 | 5 | MAES AVE. | 15 m LT. | 1 |
| 20+007 | 7 | MAES AVE. | 15.5 m LT. | 1 |
| 20+024.5 | 10 | MAES AVE. | 15.5 m LT. | 1 |
| 20+024.5 | 11 | MAES AVE. | 12 m LT. | 1 |
| 20+012 | 14 | MAES AVE. | 9 m RT. | 1 |
| 20+004.5 | 15 | MAES AVE. | 15 m RT. | 1 |
| 19+986 | 18 | MAES AVE. | 14 m RT. | 1 |
| 19+977.5 | 20 | MAES AVE. | 9 m RT. | 1 |
| 19+978.5 | 22 | MAES AVE. | 4 m LT. | 1 |
| SUBTOTAL | | | | 11 |
| * 10+931 | 5 | C.T.H. "N" | 12.5 m RT. | 1 |
| SUBTOTAL | | | | 1 |
| TOTALS | | | | 12 |

*- NON-PARTICIPATING

ELECTRIC SERVICE, METER BREAKER PEDESTAL

| STATION | LOCATION | QUANTITY EACH |
|----------------|---------------------|---------------|
| GROUP CODE 030 | | |
| 19+979 | MAES AVE., 17 m LT. | 1 |

TRAFFIC SIGNAL FACES

| INTERSECTION | HEAD NO. | SIGNAL FACES | SIGNAL FACES | SIGNAL FACES | BACKPLATES 4 SECTION EACH | BACKPLATES 5 SECTION EACH |
|--------------|----------|----------------|------------------|----------------|---------------------------|---------------------------|
| | | VERTICAL 4-300 | HORIZONTAL 4-300 | VERTICAL 5-300 | | |
| MAES AVE. | 6 | - | - | 1 | - | 1 |
| MAES AVE. | 10 | - | 1 | - | 1 | - |
| MAES AVE. | 11 | 1 | - | - | 1 | - |
| MAES AVE. | 12 | 1 | - | - | 1 | - |
| MAES AVE. | 13A | 1 | - | - | 1 | - |
| MAES AVE. | 13 | - | 1 | - | 1 | - |
| MAES AVE. | 14 | 1 | - | - | 1 | - |
| MAES AVE. | 15 | 1 | - | - | 1 | - |
| MAES AVE. | 16 | 1 | - | - | 1 | - |
| TOTAL | | 6 | 2 | 1 | 8 | 1 |

LOOP DETECTOR INSTALLATION

| INTERSECTION | DETECTOR NUMBER | SIZE | LOOP DETECTOR | LOOP DETECTOR | LEAD-IN | URNS |
|--------------|-----------------|------|---------------|---------------|---------|------|
| | | | CONDUIT m | WIRE m | CABLE m | EACH |
| MAES AVE. | 11 | 2x9 | 30 | 83 | 18 | 3 |
| MAES AVE. | 12 | 2x9 | 30 | 83 | 72 | 3 |
| MAES AVE. | 21 | 2x9 | 27 | 76 | 18 | 3 |
| MAES AVE. | 22 | 2x9 | 25 | 72 | 72 | 3 |
| MAES AVE. | 31 | 2x9 | 29 | 76 | 55 | 3 |
| MAES AVE. | 32 | 2x9 | 32 | 86 | 55 | 3 |
| MAES AVE. | 41 | 2x9 | 33 | 80 | 41 | 3 |
| MAES AVE. | 42 | 2x9 | 30 | 76 | 41 | 3 |
| MAES AVE. | 43 | 2x9 | 25 | 72 | 41 | 3 |
| SUBTOTAL | | | 261 | 704 | 413 | |
| * MAIN ST. | 11 | 2x9 | 28 | 78 | 40 | 3 |
| * MAIN ST. | 21 | 2x9 | 24 | 72 | 40 | 3 |
| SUBTOTAL | | | 52 | 150 | 80 | |
| TOTALS | | | 313 | 854 | 493 | |

*- NON-PARTICIPATING

TRAFFIC SIGNALS

| INTERSECTION | JUNCTION NUMBER | PEDESTAL BASE EACH | POLE STANDARD 4.6 m EACH | PEDESTRIAN PUSH BUTTONS EACH |
|--------------|-----------------|--------------------|--------------------------|------------------------------|
| MAES AVE. | 2 | - | - | 1 |
| MAES AVE. | 4 | - | - | 1 |
| MAES AVE. | 9 | - | - | 1 |
| MAES AVE. | 12 | 1 | 1 | 1 |
| MAES AVE. | 13 | - | - | 1 |
| MAES AVE. | 16 | - | - | 1 |
| MAES AVE. | 17 | - | - | 1 |
| MAES AVE. | 19 | - | - | 1 |
| TOTALS | | 1 | 1 | 8 |

TRAFFIC SIGNAL CONTROLLER, FULLY ACTUATED, 8-PHASE

| STATION | LOCATION | QUANTITY EACH |
|----------------|---------------------|---------------|
| GROUP CODE 030 | | |
| 19+979 | MAES AVE., 17 m LT. | 1 |

GB2 PEN TABLE # 4plot724laser-smv80pp.tbl DATE OF PLOT = 04/21/99 PLOT NA DESIGN FILE IS I:\440261\440261.dgn\misc.dgn
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 PLOT NAME: SCALE:

SCHEDULE OF LANDS INTERESTS REQUIRED

AREAS SHOWN IN THE TOTAL ACRES COLUMN MAY BE APPROXIMATE AND ARE DERIVED FROM TAX ROLLS OR OTHER AVAILABLE SOURCES AND MAY NOT INCLUDE LANDS OF THE OWNER WHICH ARE NOT CONTIGUOUS TO THE AREA TO BE ACQUIRED.

| PARCEL NUMBER | SHEET NUMBER | OWNER | INTEREST REQUIRED | TOTAL AREA | NEW | R/W AREA REQUIRED OR EXISTING | TOTAL | TOTAL AREA REMAINING | T.L.E. AREA | HIGHWAY EASEMENT AREA |
|---------------|--------------|---|-------------------|---------------------------------|-------------------------------|-------------------------------|-------------------------------|---------------------------------|----------------------------|----------------------------|
| 1 | 4.2 | SHOPKO STORES, INC. | FEE | 28,823 SO. m 310,252 SO. FT. | 3 SO. m 32 SO. FT. | ---- | 3 SO. m 32 SO. FT. | 28,820 SO. m 310,220 SO. FT. | ---- | ---- |
| 2 | 4.2,4.3 | VILLAGE OF KIMBERLY | FEE AND T.L.E. | 15,882 SO. m 170,955 SO. FT. | 2,079 SO. m 22,378 SO. FT. | ---- | 2,079 SO. m 22,378 SO. FT. | 13,803 SO. m 148,577 SO. FT. | 98 SO. m 1,055 SO. FT. | ---- |
| 3 | 4.2,4.3 | KIMBERLY ASSOCIATES LIMITED PARTNERSHIP | FEE AND T.L.E. | 27,061 SO. m 291,283 SO. FT. | 461 SO. m 4,962 SO. FT. | ---- | 461 SO. m 4,962 SO. FT. | 26,600 SO. m 286,321 SO. FT. | 634 SO. m 6,824 SO. FT. | ---- |
| 4 | 4.3 | REPAP U.S.A., INC. | FEE | 51,674 SO. m 556,217 SO. FT. | 121 SO. m 1,302 SO. FT. | ---- | 121 SO. m 1,302 SO. FT. | 51,553 SO. m 554,915 SO. FT. | ---- | ---- |
| 5 | 4.3 | GERALD H. VAN HOOF | FEE | 466 SO. m 5,021 SO. FT. | 113 SO. m 1,216 SO. FT. | ---- | 113 SO. m 1,216 SO. FT. | 353 SO. m 3,805 SO. FT. | ---- | ---- |
| 6 | 4.3 | JILL M. TOUSEY | FEE | 1,219 SO. m 13,121 SO. FT. | 52 SO. m 560 SO. FT. | ---- | 52 SO. m 560 SO. FT. | 1,167 SO. m 12,561 SO. FT. | ---- | ---- |
| 7 | 4.3,4.4 | ARLINE LAMERS | FEE AND T.L.E. | 1,101 SO. m 11,851 SO. FT. | 23 SO. m 248 SO. FT. | ---- | 23 SO. m 248 SO. FT. | 1,078 SO. m 11,603 SO. FT. | 15 SO. m 172 SO. FT. | ---- |
| 8 | 4.4 | SCOTT R. AND CARI L. BARRIBEAU | FEE AND T.L.E. | 841 SO. m 9,052 SO. FT. | 6 SO. m 65 SO. FT. | ---- | 6 SO. m 65 SO. FT. | 835 SO. m 8,987 SO. FT. | 68 SO. m 732 SO. FT. | ---- |
| 9 | | | | | | | | | | |
| 10 | 4.4 | JEFFREY W. VAN DYN HOVEN | FEE AND T.L.E. | 833 SO. m 8,966 SO. FT. | 35 SO. m 377 SO. FT. | ---- | 35 SO. m 377 SO. FT. | 798 SO. m 8,589 SO. FT. | 113 SO. m 1216 SO. FT. | ---- |
| 11 | 4.4 | PETROLEUM REAL COMPANY INC. | T.L.E. | ---- | ---- | ---- | ---- | ---- | 112 SO. m 1,206 SO. FT. | ---- |
| 12 | 4.4 | DAVID F. SEIDL | T.L.E. | ---- | ---- | ---- | ---- | ---- | 171 SO. m 1,840 SO. FT. | ---- |
| 13 | 4.4 | GERALD C. VAN DYN HOVEN | T.L.E. | ---- | ---- | ---- | ---- | ---- | 150 SO. m 1,615 SO. FT. | ---- |
| 14 | 4.3 | WISCONSIN ELECTRIC POWER COMPANY | RELEASE | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| 15 | 4.2,4.3 | WISCONSIN GAS COMPANY | RELEASE | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| 16 | | | | | | | | | | |
| 17 | 4.3 | AMERITECH | RELEASE | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| 18 | 4.3 | VILLAGE OF LITTLE CHUTE | RELEASE | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| 19 | 4.3 | FOX VALLEY AND WESTERN LIMITED | HIGHWAY EASEMENT | ---- | ---- | ---- | ---- | ---- | ---- | 187 SO. m 2,012 SO. FT. |

REVISION DATE 06-01-1998
06-01-1998
10-23-1998

DATE 04-29-1998

HWY: C.T.H. "N" FEDERAL PROJECT NO: 4676-03-71
COUNTY: OUTAGAMIE STATE R/W PROJECT NO: 4676-03-00 SHEET NO: 4.1

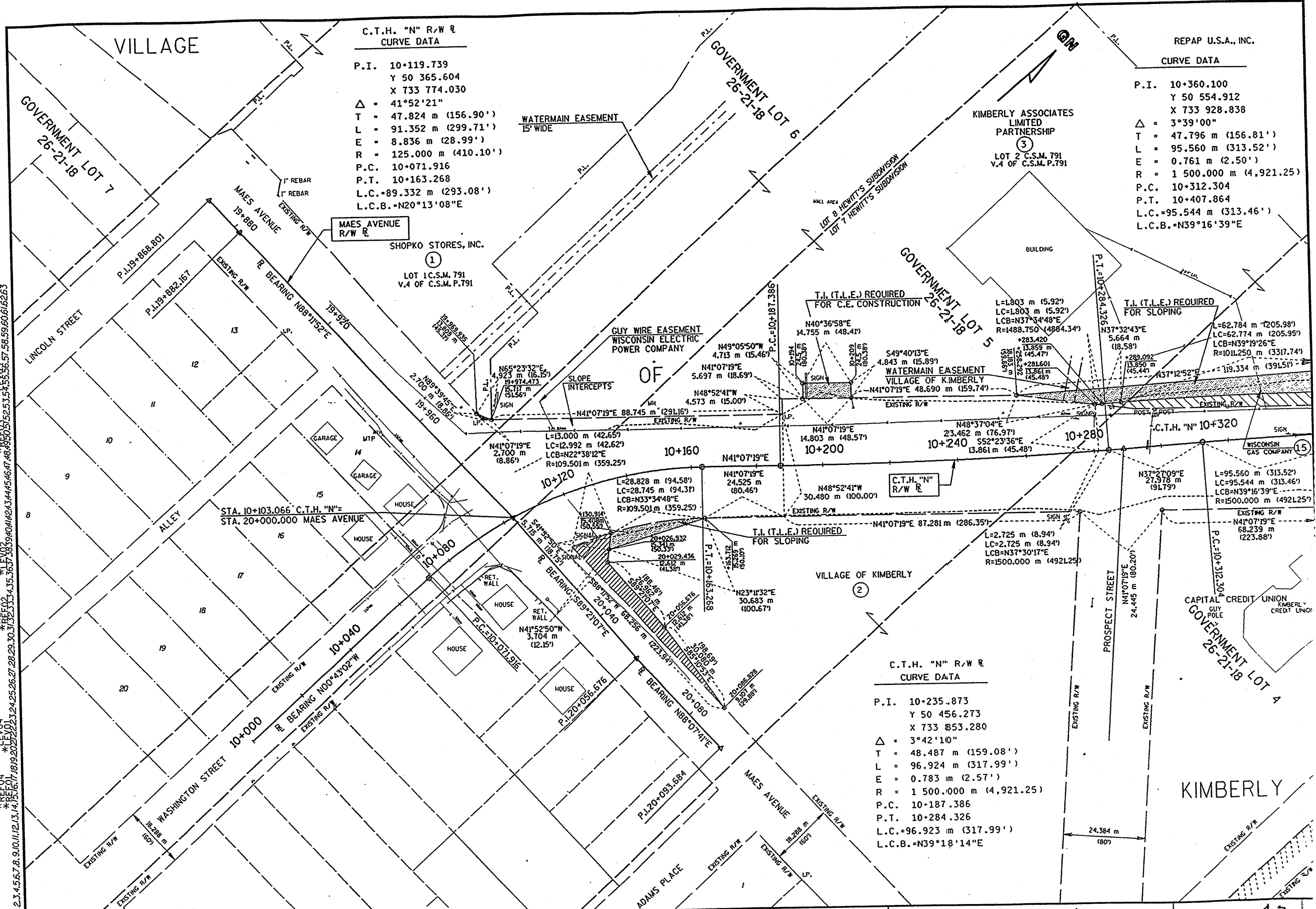
4.2

WISDOT: 46

ORIGINAL OR: 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. DESIGN FILE: IS

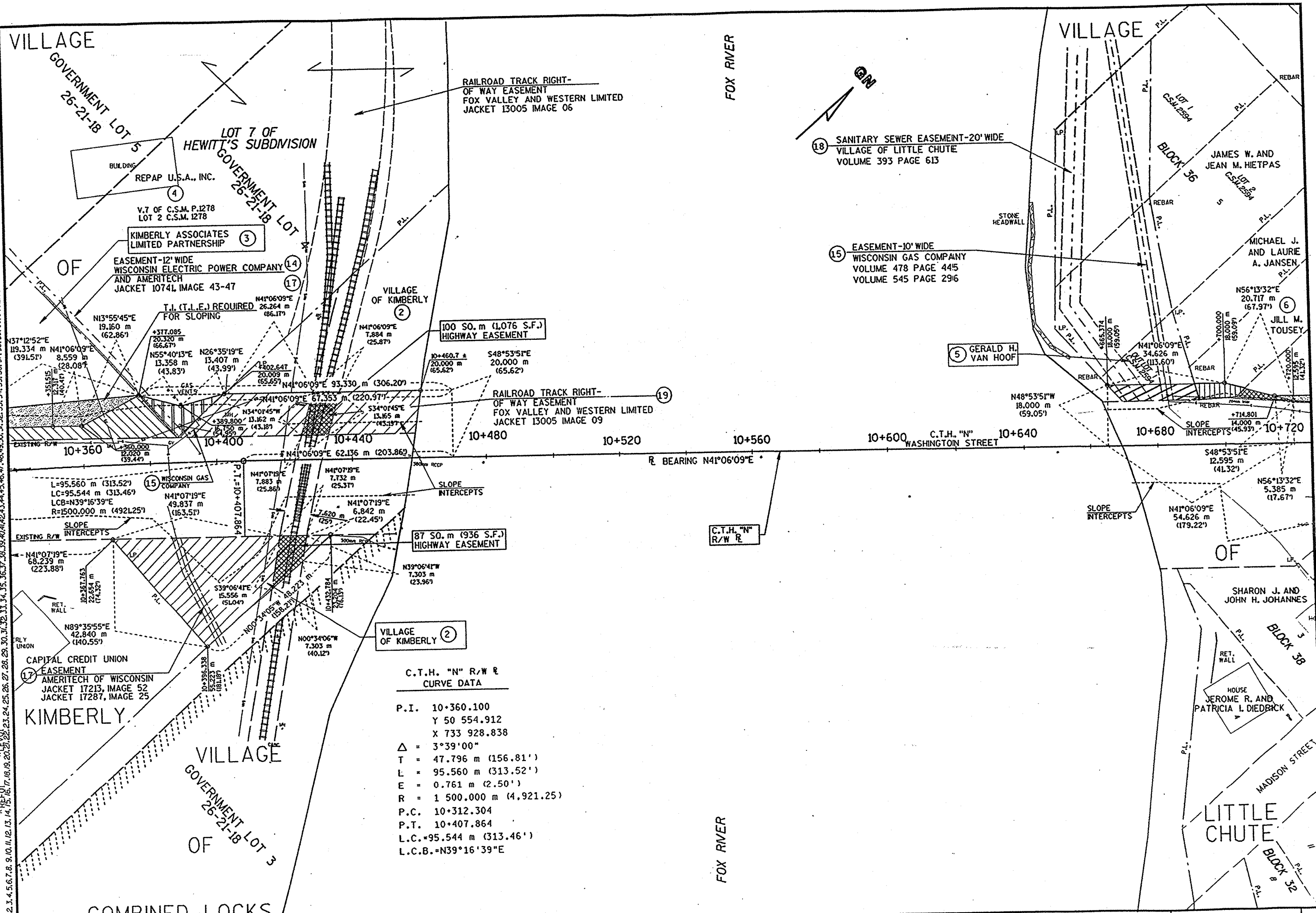
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| | | | | | | | |
|--|-----------------------------|--------------------|--------------------------|--------------------------------------|--------------------------------|----------------------------------|---------------|
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PLOT NA DESIGN FILE IS I:\440261\NDGN\rv2.dgn
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 FILE NAME:



C.T.H. "N" R/W CURVE DATA

| | |
|--------|-------------------------|
| P.I. | 10+360.100 |
| Y | 50 554.912 |
| X | 733 928.838 |
| Δ | 3°39'00" |
| T | 47.796 m (156.81') |
| L | 95.560 m (313.52') |
| E | 0.761 m (2.50') |
| R | 1 500.000 m (4,921.25') |
| P.C. | 10+312.304 |
| P.T. | 10+407.864 |
| L.C. | 95.544 m (313.46') |
| L.C.B. | N39°16'39"E |

| | | | | | |
|---|---------------------|--------------------------|--------------------------------------|----------------------------------|-----------------|
| REVISION DATE 06-01-1998 10-23-1998 | DATE 04-29-1998 | SCALE, METERS 0 25 50 | HWY: C.T.H. "N" COUNTY: OUTAGAMIE | FEDERAL PROJECT NO: 4676-03-71 | 44 |
| | GRID FACTOR 0.99994 | | | STATE R/W PROJECT NO: 4676-03-00 | SHEET NO: 4.3 M |

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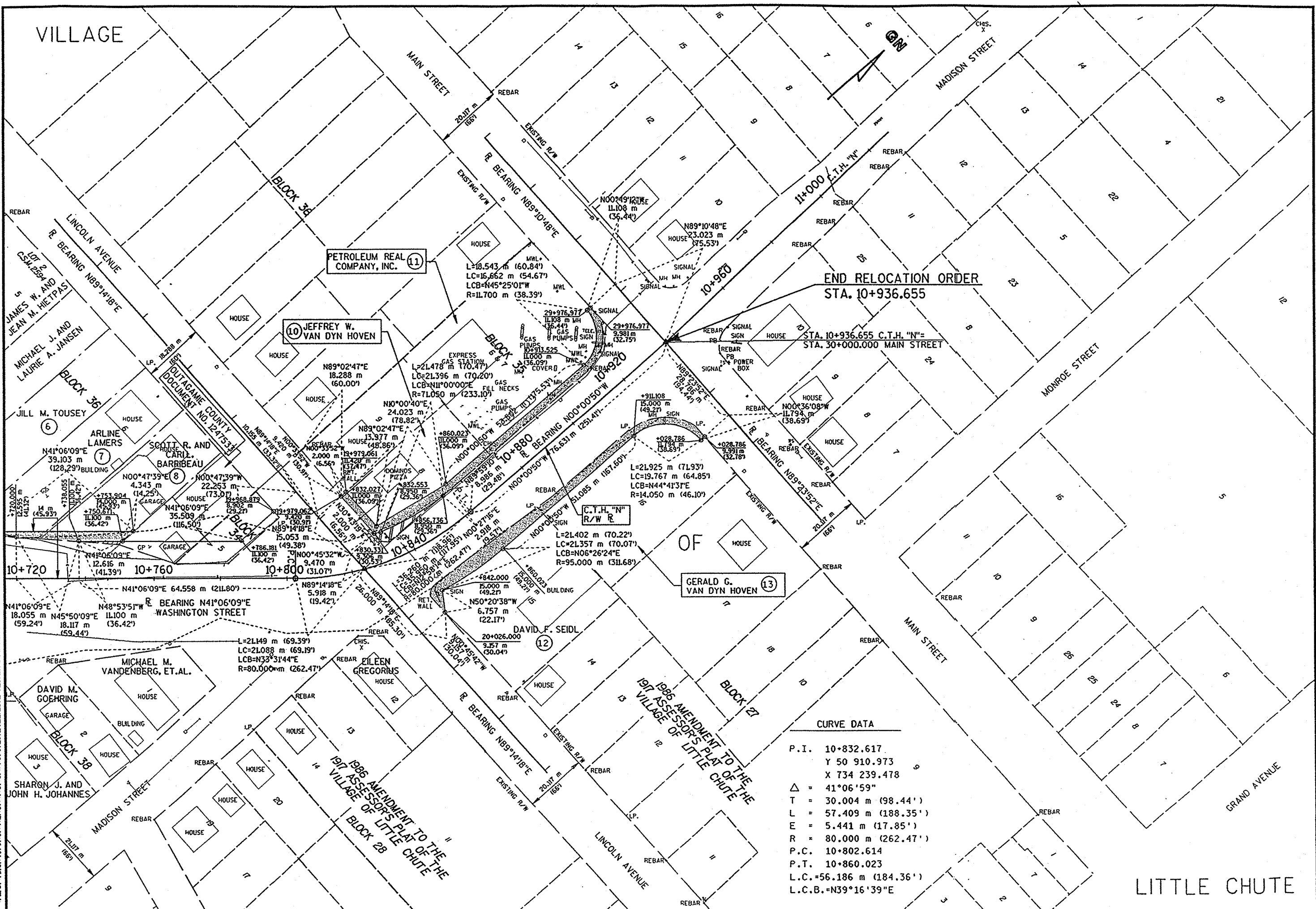
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 *LEV03

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ORIGINATOR:
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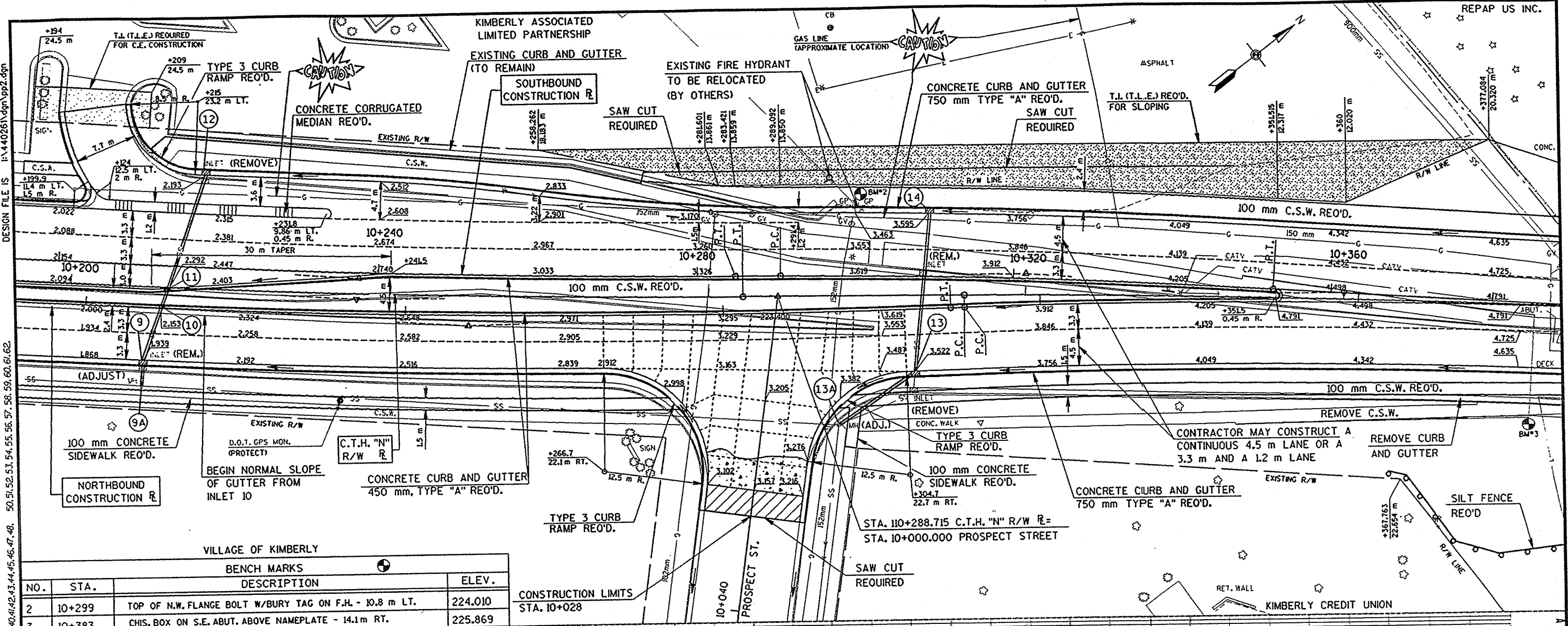


CURVE DATA

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 X 734 239.478
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 T = 30.004 m (98.44')
 L = 57.409 m (188.35')
 E = 5.441 m (17.85')
 R = 80.000 m (262.47')
 P.C. 10+802.614
 P.T. 10+860.023
 L.C. = 56.186 m (184.36')
 L.C.B. = N39°16'39"E

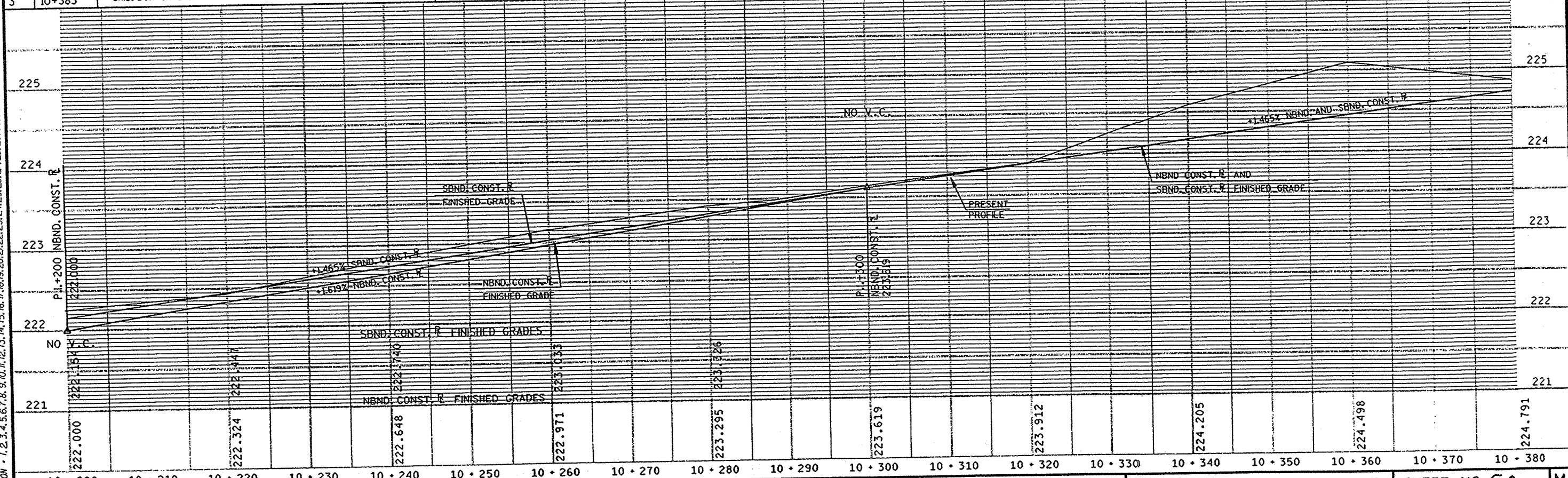
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| REVISION DATE RD-RWSCHED | DATE 04-29-1998 | SCALE, METERS 0 25 50 | HWY: C.T.H. "N" | FEDERAL PROJECT NO: 4676-03-71 | 45 |
| GRID FACTOR 0.99994 | | | COUNTY: OUTAGAMIE | STATE R/W PROJECT NO: 4676-03-00 | SHEET NO: 4.4 M |

ORIGINATOR: D.D. DATE: 12/15/97
 REVISION: NO. 44026100
 DATE: 02/24/99
 DESIGNER: J. L. 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, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63
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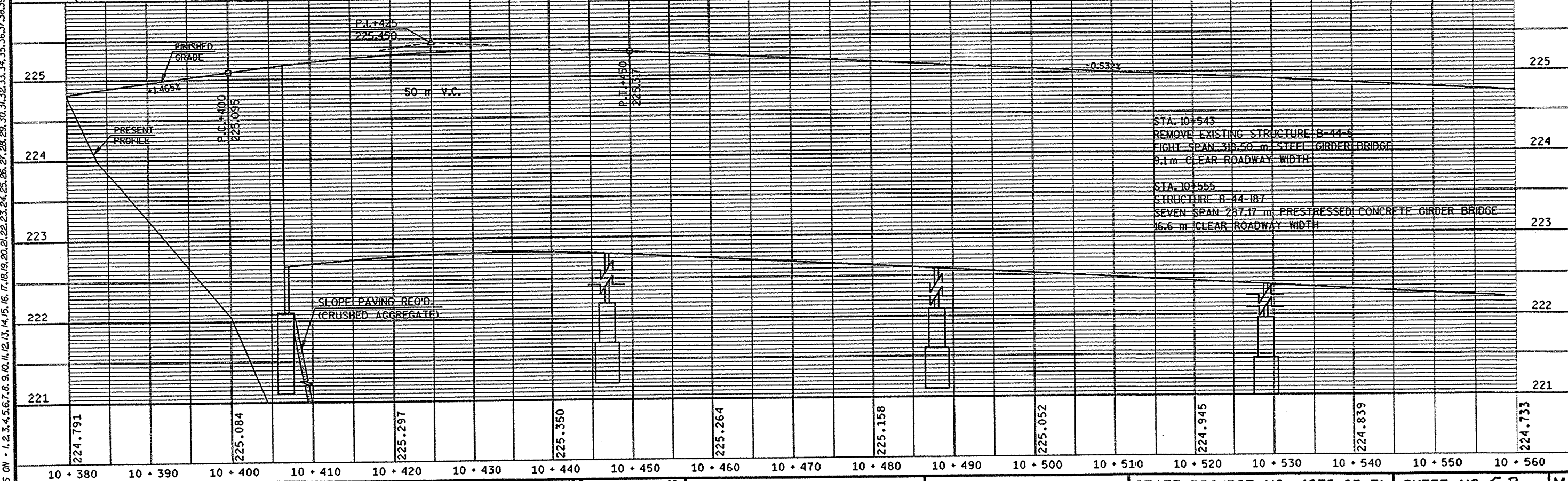
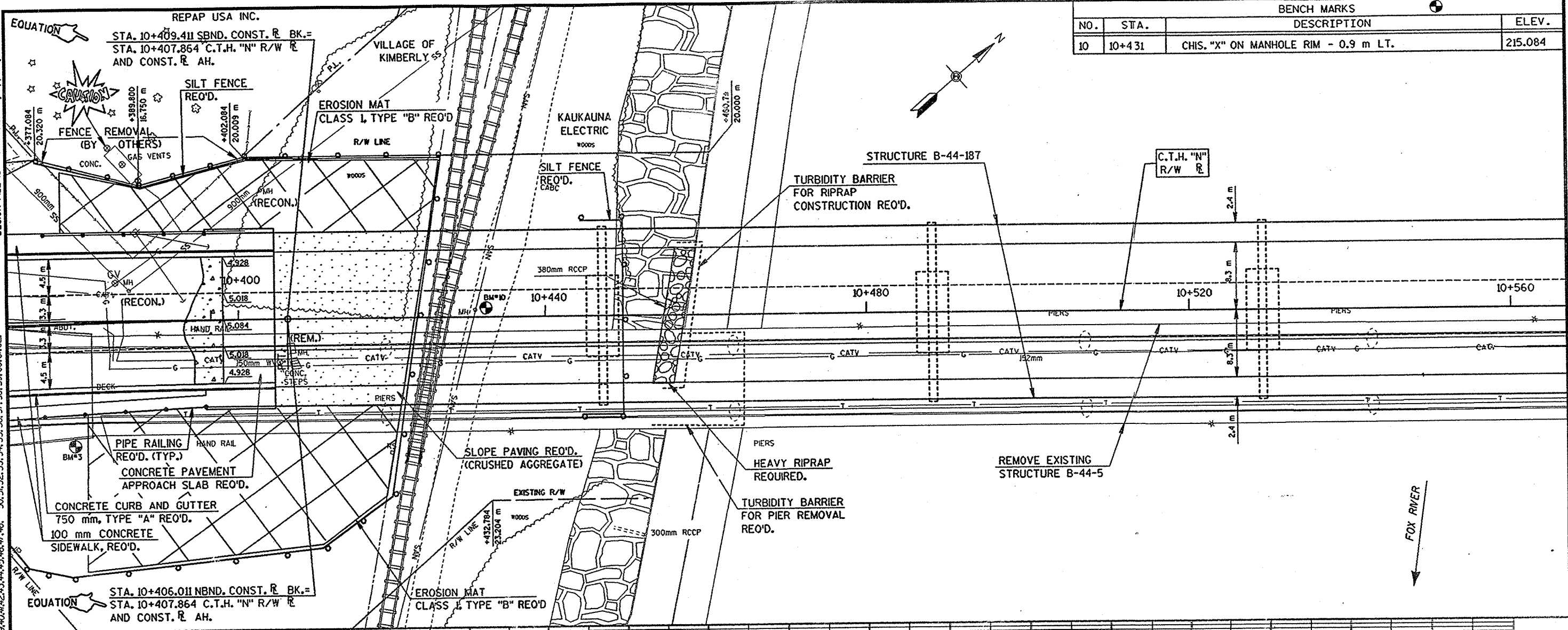
| BENCH MARKS | | | |
|-------------|--------|---|---------|
| NO. | STA. | DESCRIPTION | ELEV. |
| 2 | 10+299 | TOP OF N.W. FLANGE BOLT W/BURY TAG ON F.H. - 10.8 m LT. | 224.010 |
| 3 | 10+383 | CHIS. BOX ON S.E. ABUT. ABOVE NAMEPLATE - 14.1 m RT. | 225.869 |

CONSTRUCTION LIMITS
STA. 10+028



ORIGINATOR: DJD DATE: 12/16/97 PLOT NAME: FILE NAME: SCALE: 1:1
 PROJECT NO. 44026100
 REVISIONS: 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
 DATE REVISED: 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
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 DATE OF PLOT = 04/05/99
 PLOT NO.
 DESIGN FILE IS

| BENCH MARKS | | | |
|-------------|--------|--------------------------------------|---------|
| NO. | STA. | DESCRIPTION | ELEV. |
| 10 | 10+431 | CHIS. "X" ON MANHOLE RIM - 0.9 m LT. | 215.084 |

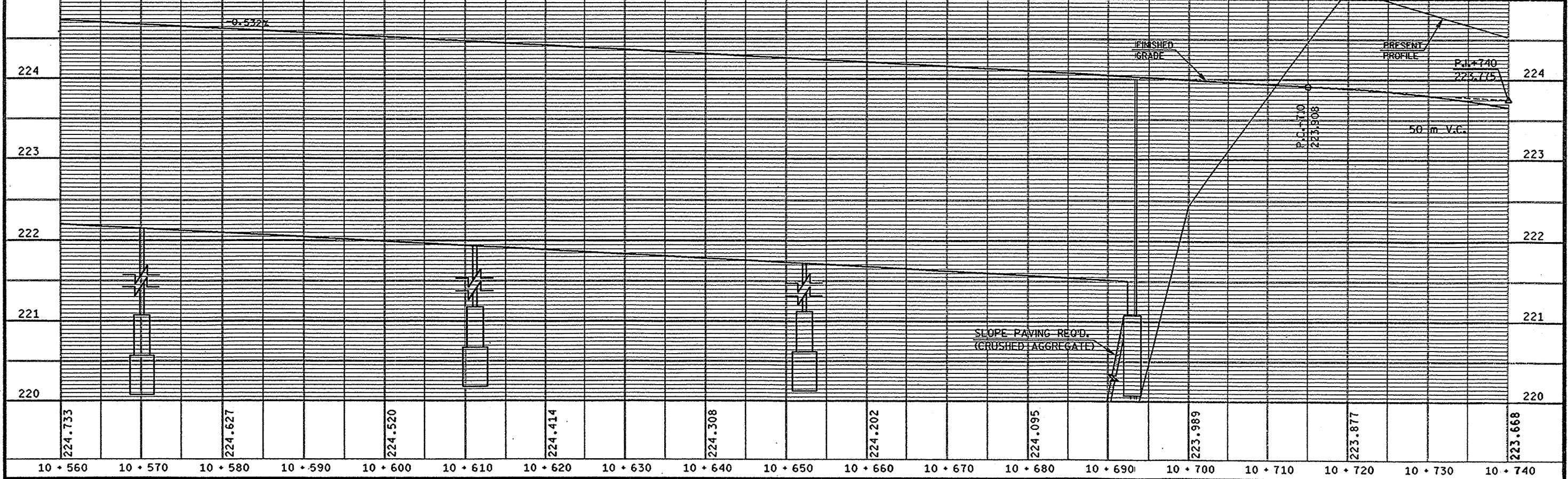
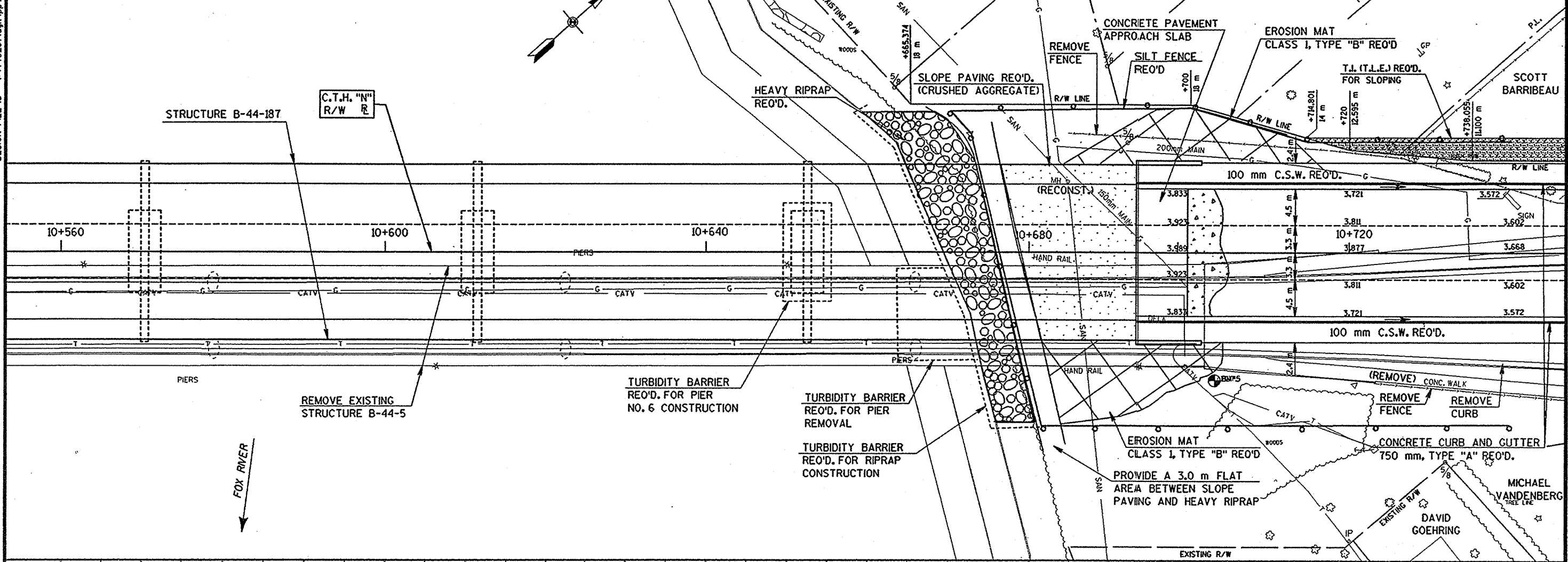


STA. 10+543
 REMOVE EXISTING STRUCTURE B-44-5
 EIGHT SPAN 318.50 m STEEL GIRDER BRIDGE
 9.1m CLEAR ROADWAY WIDTH

 STA. 10+555
 STRUCTURE B-44-187
 SEVEN SPAN 287.17 m PRESTRESSED CONCRETE GIRDER BRIDGE
 16.6 m CLEAR ROADWAY WIDTH

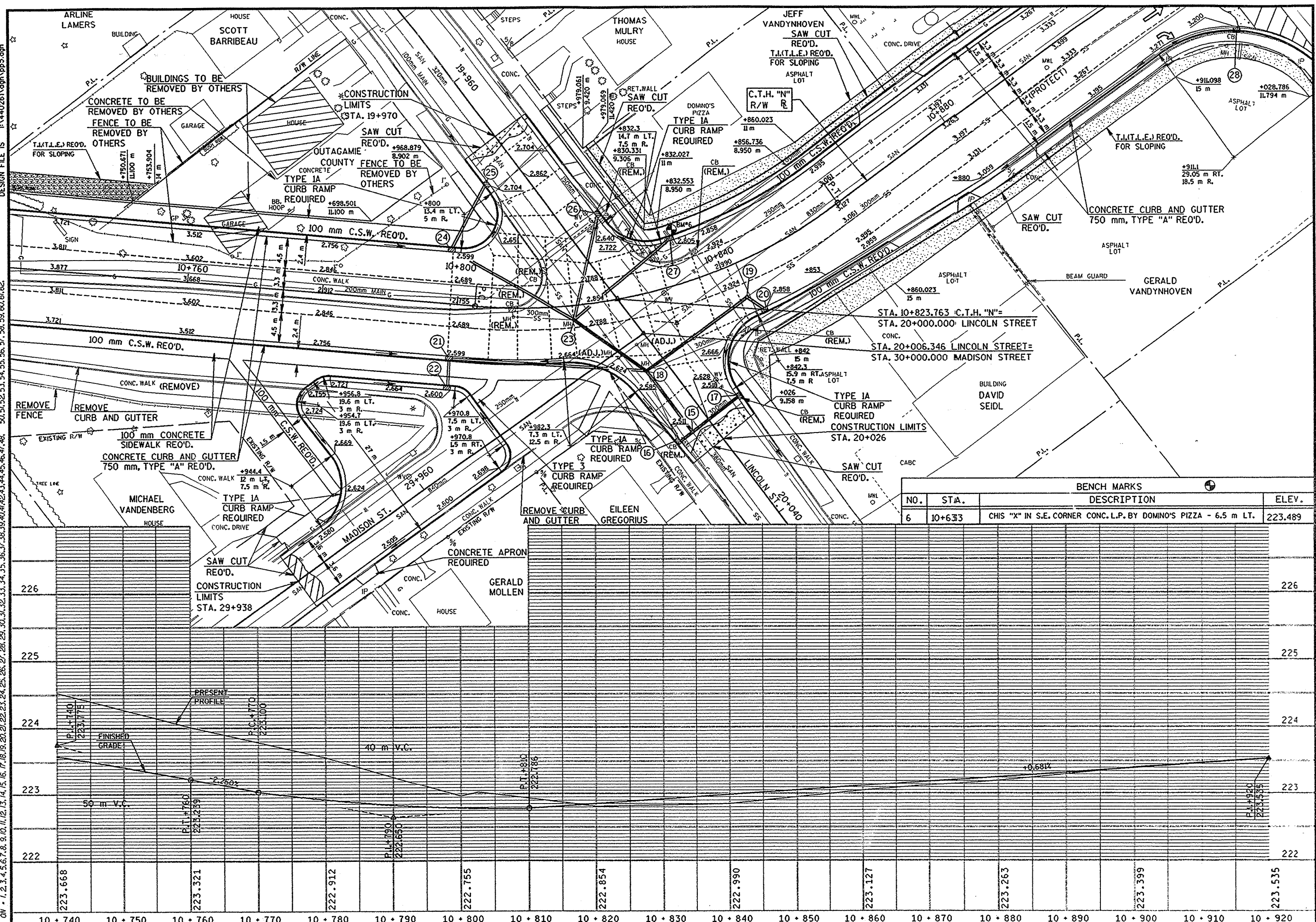
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| BENCH MARKS | | | |
|-------------|--------|---|---------|
| NO. | STA. | DESCRIPTION | ELEV. |
| 5 | 10+701 | CHIS. "X" IN N.E. CORN ABUT. - 13.8 m RT. | 225.882 |



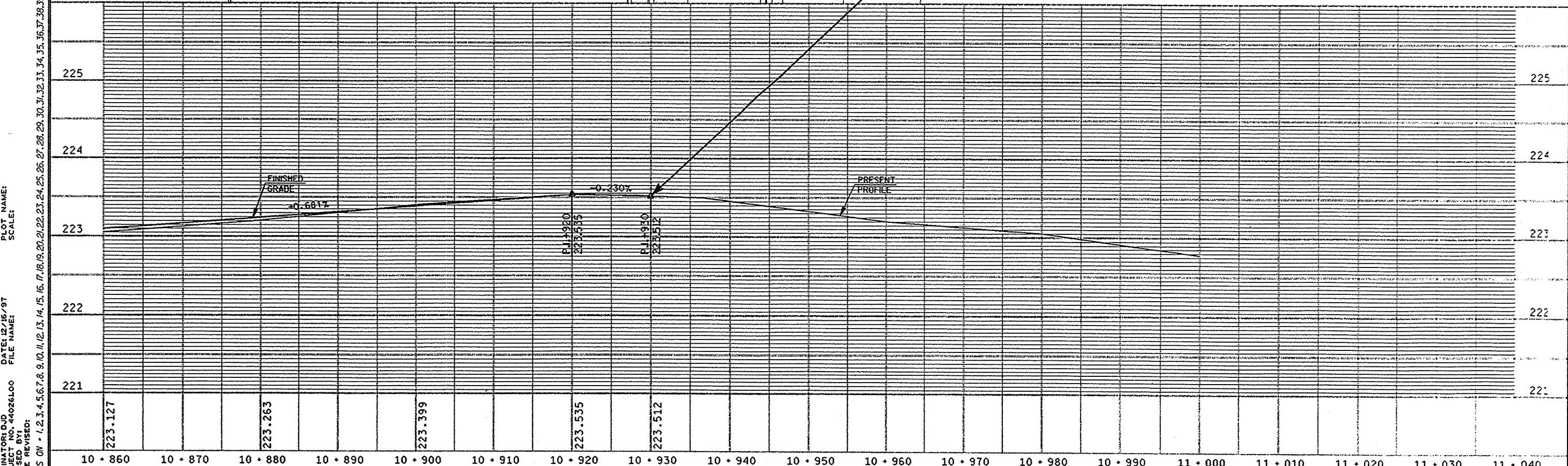
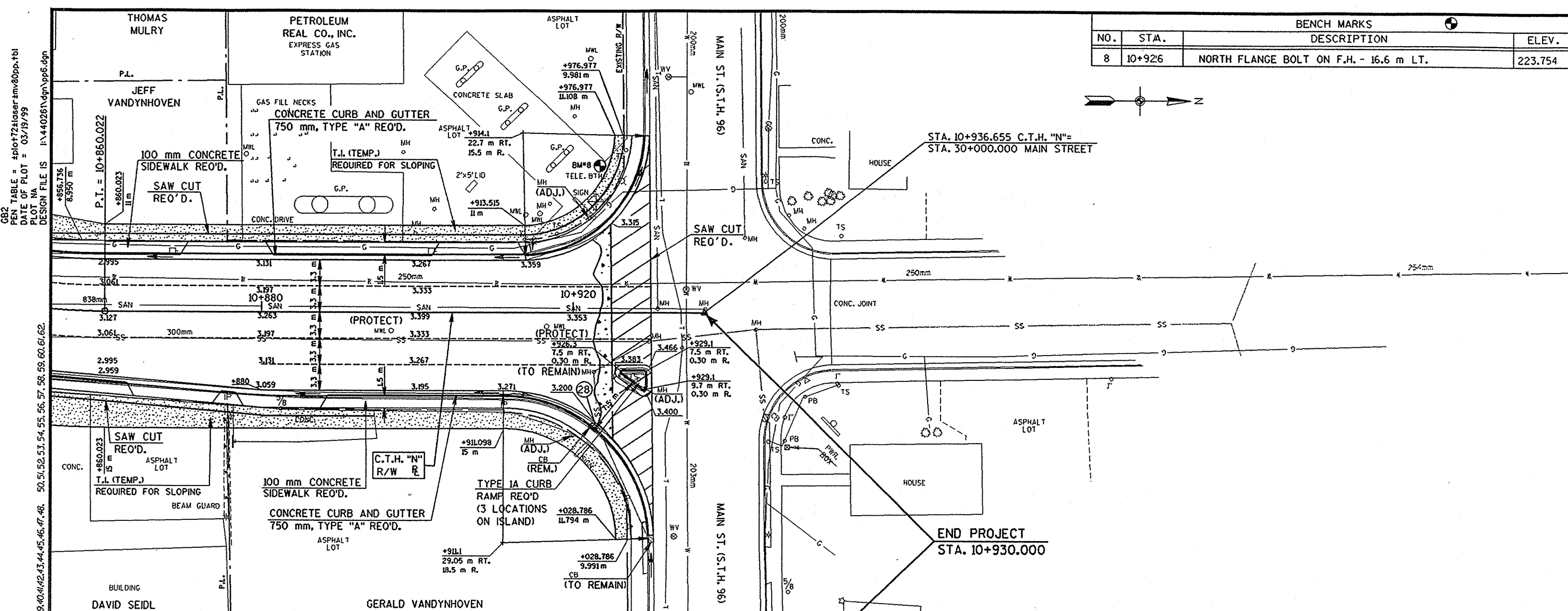
WISDOT: MSHT 32

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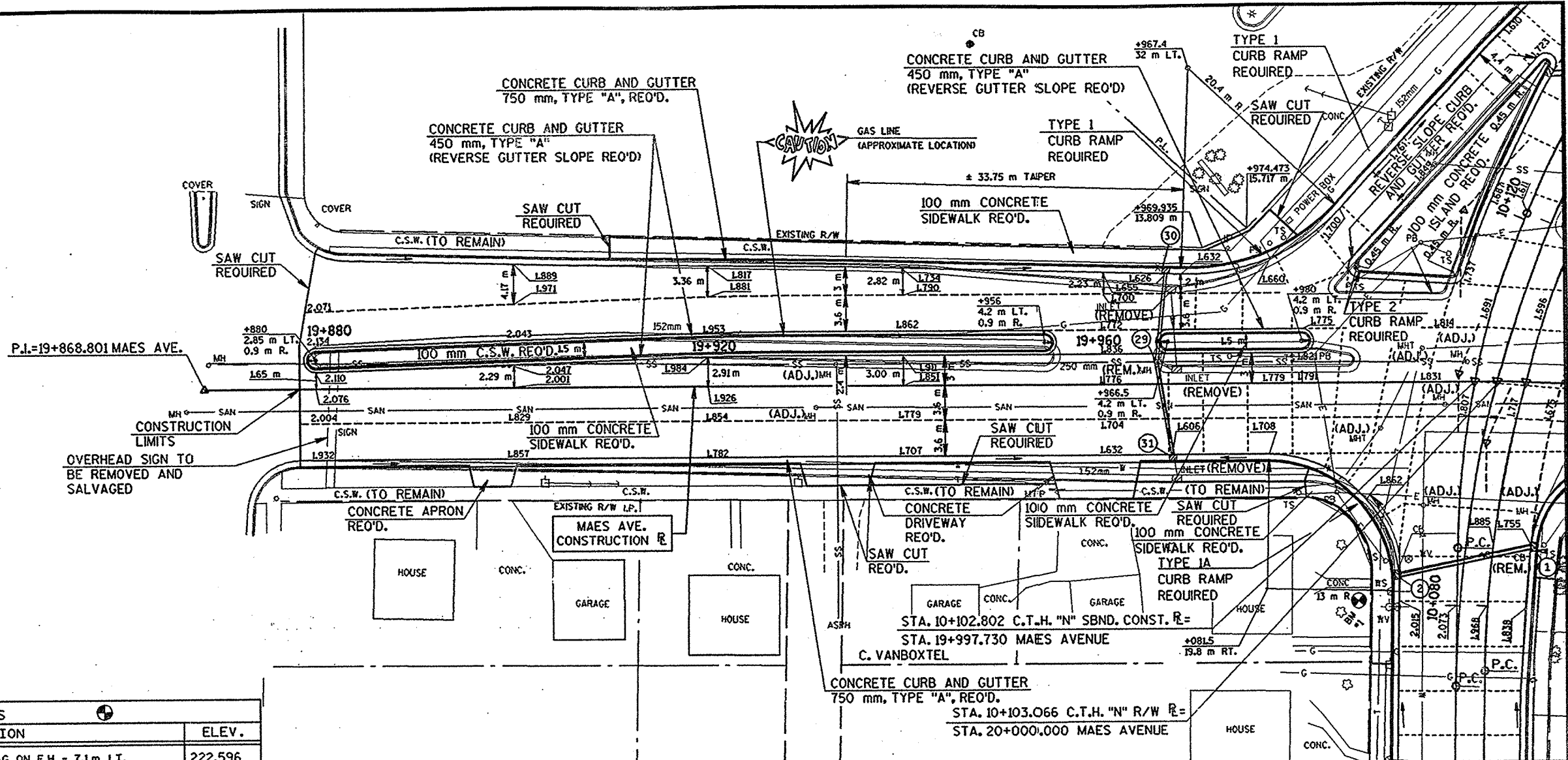
WISDOT: MS-T42

| BENCH MARKS | | | |
|-------------|--------|--|---------|
| NO. | STA. | DESCRIPTION | ELEV. |
| 8 | 10+926 | NORTH FLANGE BOLT ON F.H. - 16.6 m LT. | 223.754 |

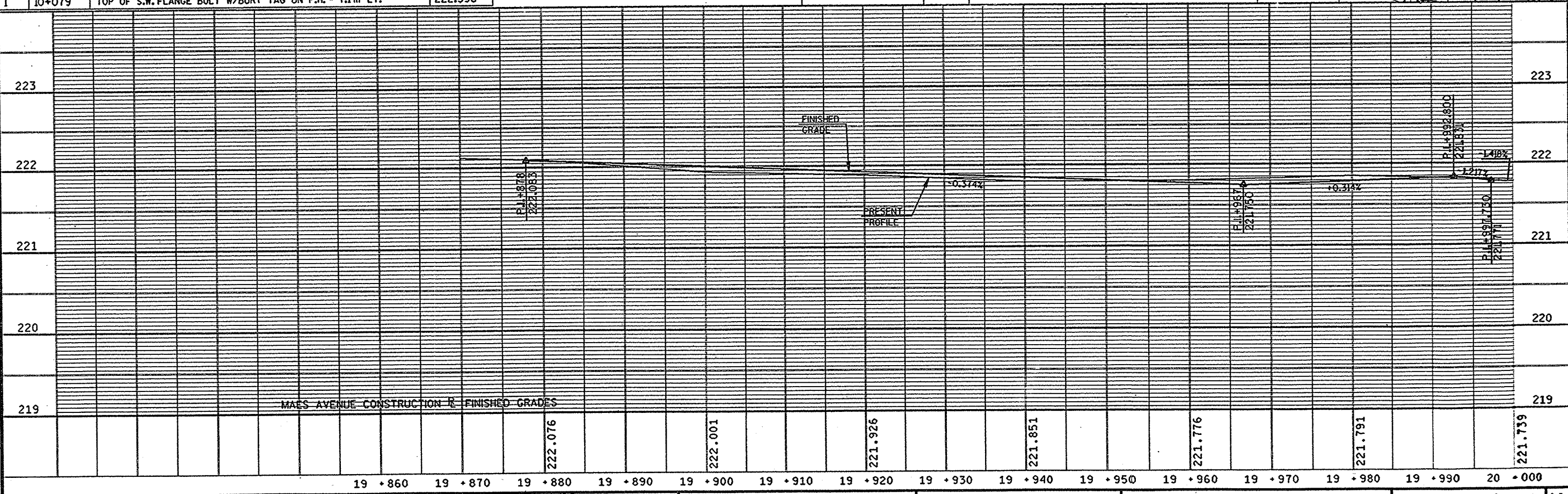


GB2
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 1.2.3.4.5.6.7.8.9.10.11.12.13.14.15.16.17.18.19.20.21.22.23.24.25.26.27.28.29.30.31.32.33.34.35.36.37.38.39.40.41.42.43.44.45.46.47.48.
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 DATE REVISION:
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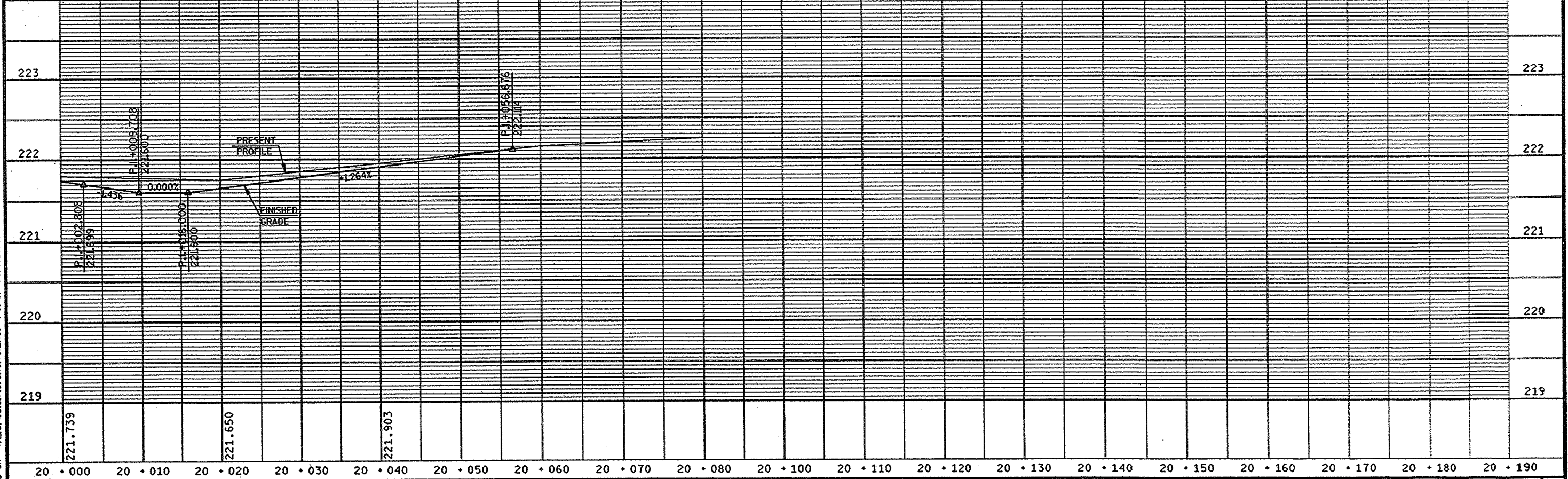
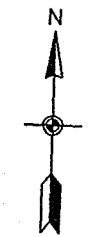
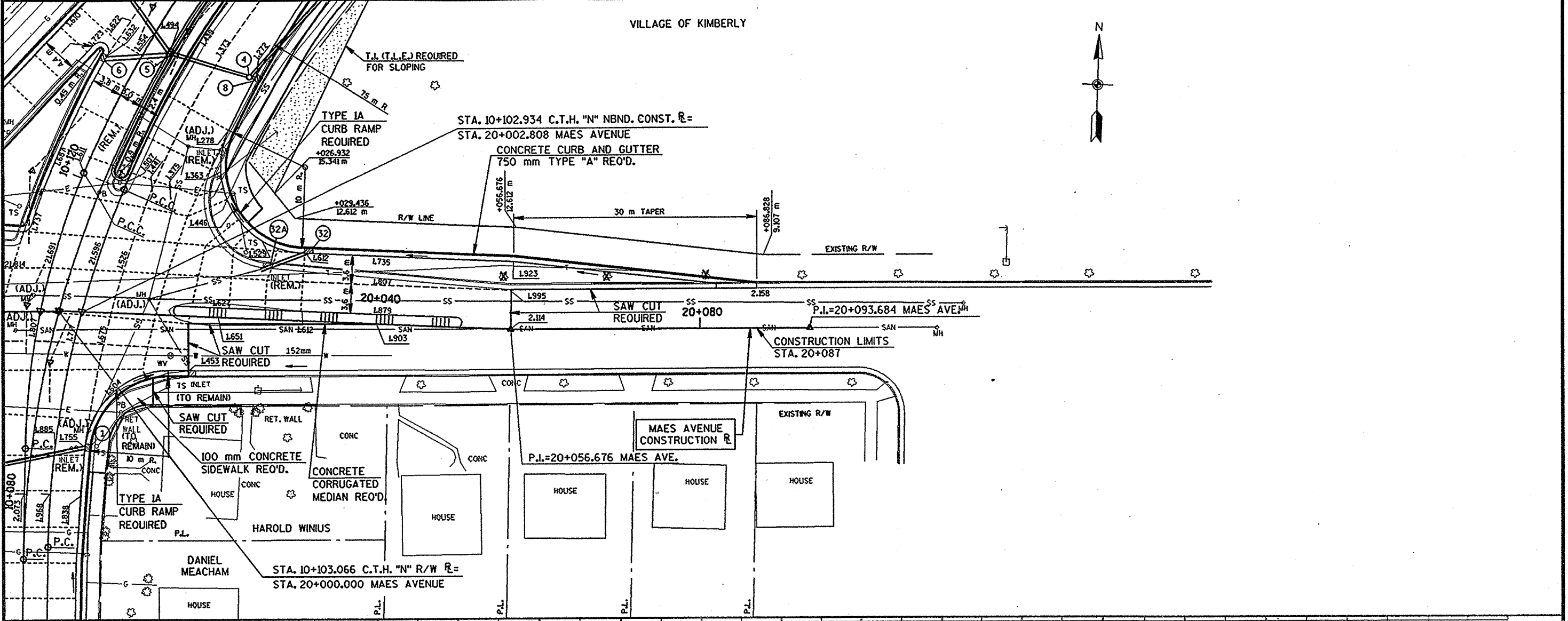
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 DATE REVISED:
 REVISION BY:
 WISDOT: MSHT 42



| BENCH MARKS | | | |
|-------------|--------|---|---------|
| NO. | STA. | DESCRIPTION | ELEV. |
| 1 | 10+079 | TOP OF S.W. FLANGE BOLT W/BURY TAG ON F.H. - 7.1m LT. | 222.596 |



ORIGINATOR: DJD
 PROJECT NO: 440302.00
 DATE: 5/6/99
 FILE NAME:
 REVISIONS:
 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.

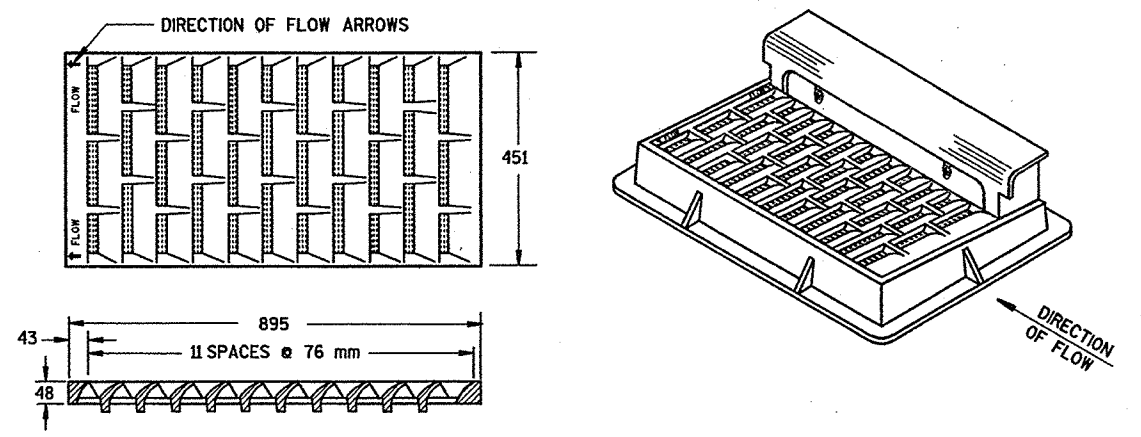


PLAN AND PROFILE
 SCALE, METERS 0 12.5 25
 HWY: MAES AVENUE COUNTY: OUTAGAMIE STATE PROJECT NO: SHEET NO: 58 M

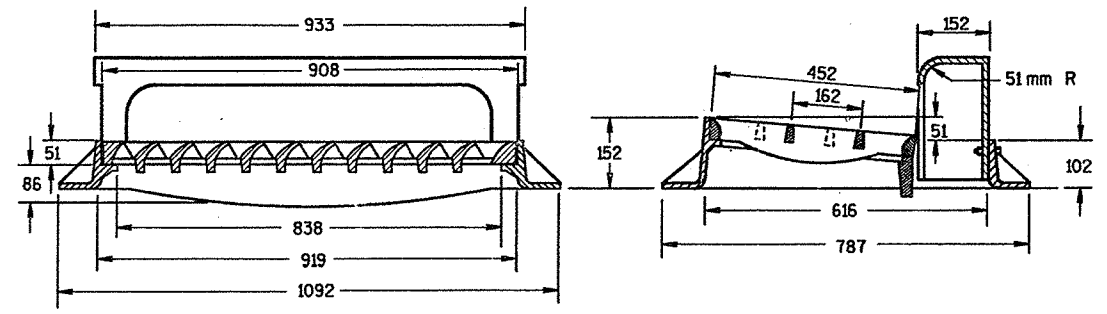
WISDOT: MSST42

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NOTE:
GRATE IS REVERSIBLE.

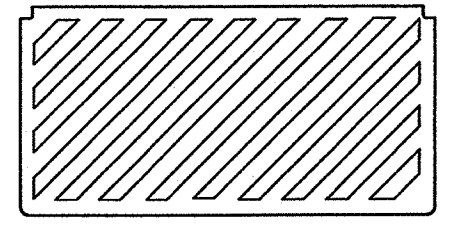


NOTE: CURB BOX HEIGHT ADJUSTABLE 150 mm TO 230 mm



TYPE "H"
 (APPROXIMATE WEIGHT 191 kg)
 FRAME..... 79 kg
 GRATE..... 63 kg
 CURB BOX..... 49 kg

300 mm DIAGONAL BARS WITH 41 mm OPENINGS



SPECIAL GRATE FOR TYPE "H" COVER

(MEASURES 895 mm X 451 mm X 51 mm)
 (APPROXIMATE WEIGHT 78 kg)

(NOTED AS TYPE H-S ON DRAINAGE TABLE)

NOTE:
GRATE IS REVERSIBLE.

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.

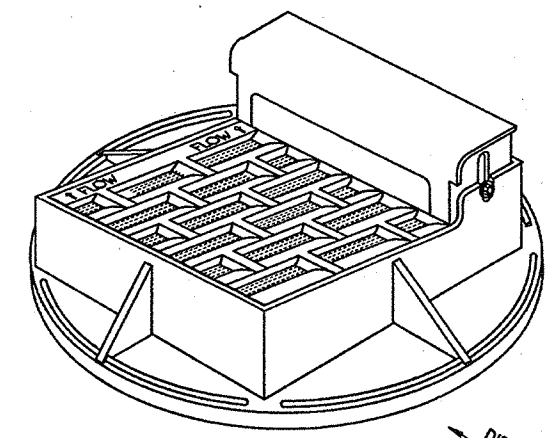
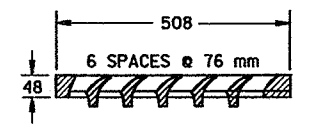
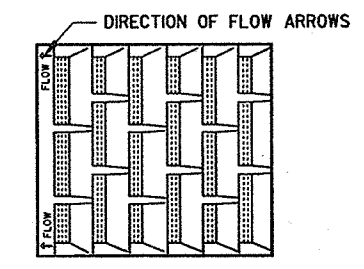
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR CATCH BASIN, MANHOLE AND INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.

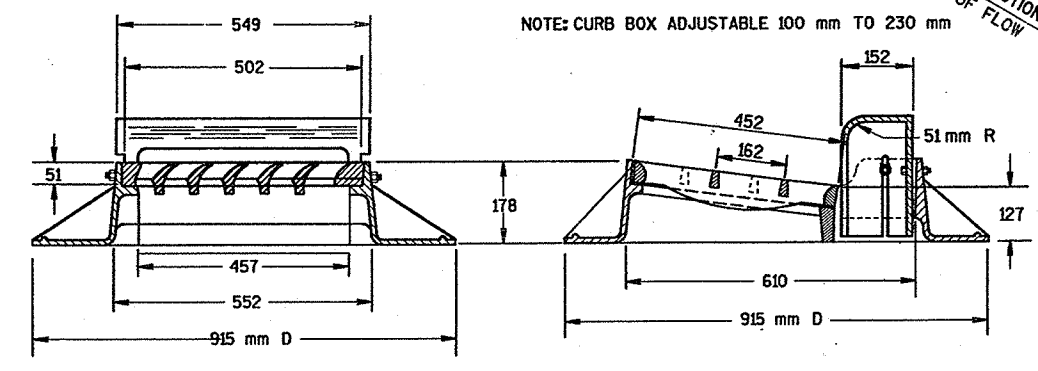
THE ACTUAL WEIGHT OF COVERS MAY VARY WITHIN 5 PERCENT, PLUS OR MINUS, OF THE APPROXIMATE WEIGHT.

NOTE

ALL DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS OTHERWISE SHOWN.



NOTE: CURB BOX ADJUSTABLE 100 mm TO 230 mm

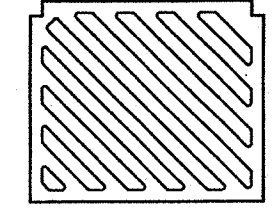


TYPE "A"

(APPROXIMATE WEIGHT 325 LBS.)
 FRAME..... 157 LBS.
 GRATE..... 84 LBS.
 CURB BOX..... 84 LBS.

NOTE:
GRATE IS REVERSIBLE.

30 mm DIAGONAL BARS WITH 30 mm OPENINGS



SPECIAL GRATE FOR TYPE "A" COVER

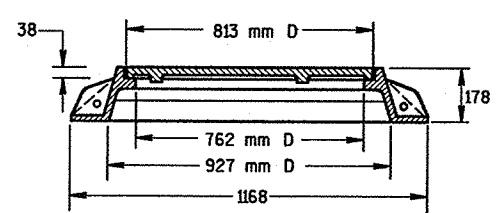
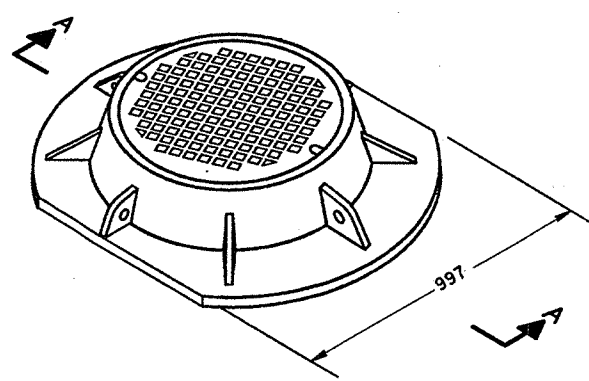
(MEASURES 502 mm X 432 mm X 51 mm)
 GRATE..... 38 kg

(NOTED AS TYPE A-S ON DRAINAGE TABLE)

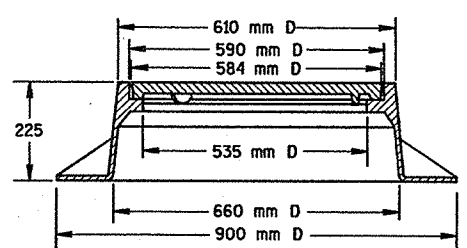
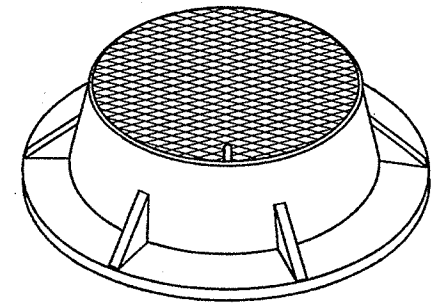
NOTE:
GRATE IS REVERSIBLE.

| | |
|--|--|
| INLET COVERS TYPE A, H, A-S, & H-S | |
| STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION | |
| APPROVED 8/27/88 DATE | CHIEF ROADWAY DEVELOPMENT ENGINEER |
| <small>FHWA</small> | <small>M</small> |

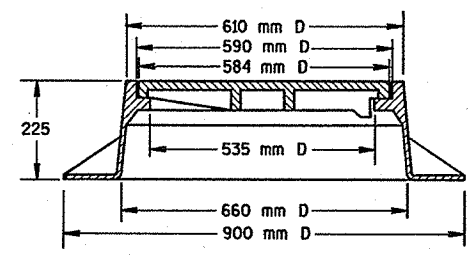
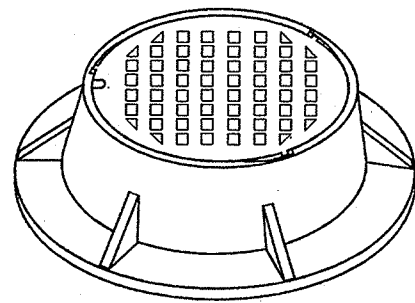
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SECTION A-A
TYPE "K"
 (APPROXIMATE WEIGHT 188 kg)
 FRAME.....95 kg
 LID.....93 kg



TYPE "J"
 (APPROXIMATE WEIGHT 113 kg)
 FRAME.....61 kg
 LID.....52 kg



TYPE "J" SPECIAL
 TYPE "B" NON-ROCKING SELF-SEAL LID
 (APPROXIMATE WEIGHT 111 kg)
 FRAME.....66 kg
 LID.....45 kg
 (NOTED AS TYPE J-S ON DRAINAGE TABLE)

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.

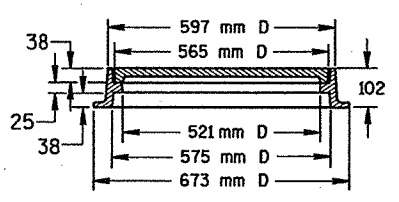
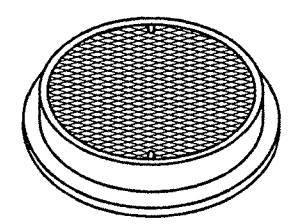
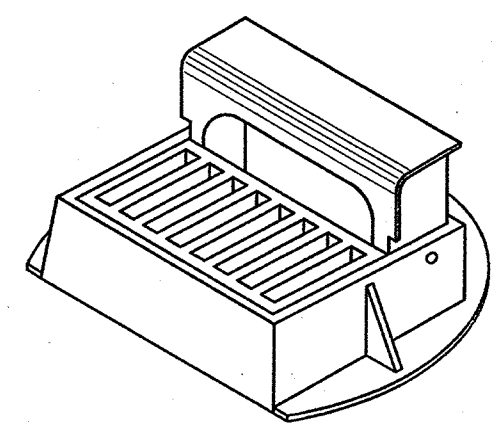
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR MANHOLE COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.

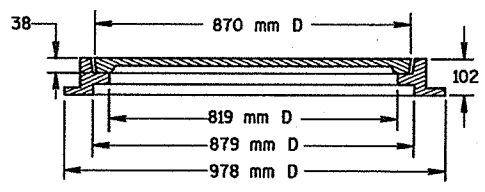
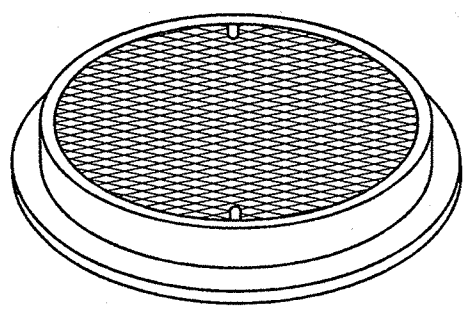
THE ACTUAL WEIGHT OF COVERS MAY VARY WITHIN 5 PERCENT, PLUS OR MINUS, OF THE APPROXIMATE WEIGHT.

NOTE

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN.

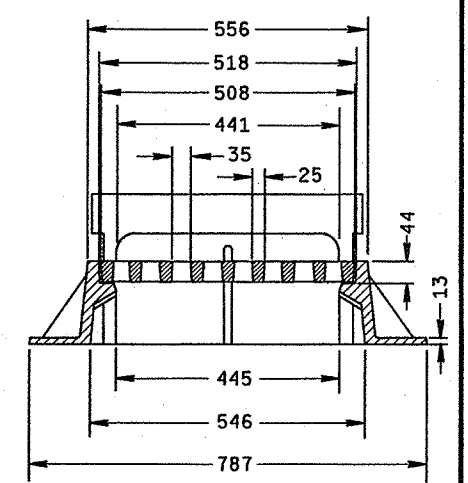
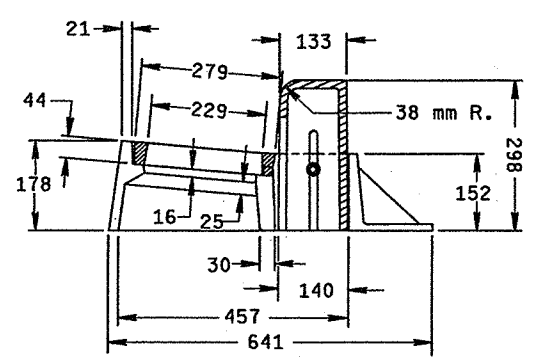


TYPE "L"
 (APPROXIMATE WEIGHT 66 kg)
 FRAME.....34 kg
 LID.....32 kg



TYPE "M"
 (APPROXIMATE WEIGHT 175 kg)
 FRAME.....57 kg
 LID.....118 kg

CURB BOX ADJUSTABLE 102 mm TO 254 mm



INLET COVER TYPE "Z"
 (APPROXIMATE WEIGHT 155 kg)
 FRAME.....90 kg
 GRATE.....23 kg
 CURB BOX.....42 kg

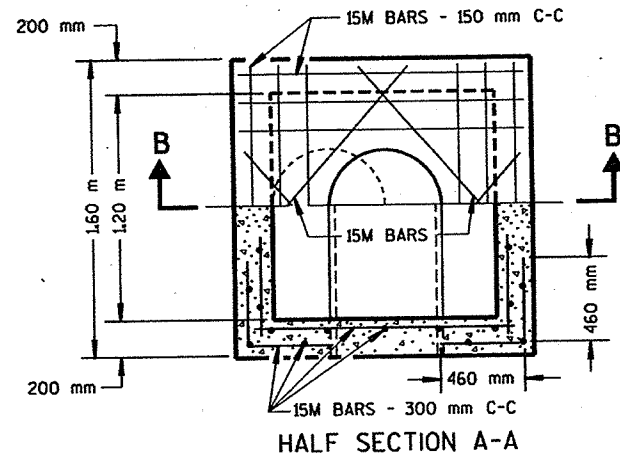
INLET COVER, TYPE Z
MANHOLE COVERS, TYPE
K, J, J-S, L & M

STATE OF WISCONSIN
 DEPARTMENT OF TRANSPORTATION

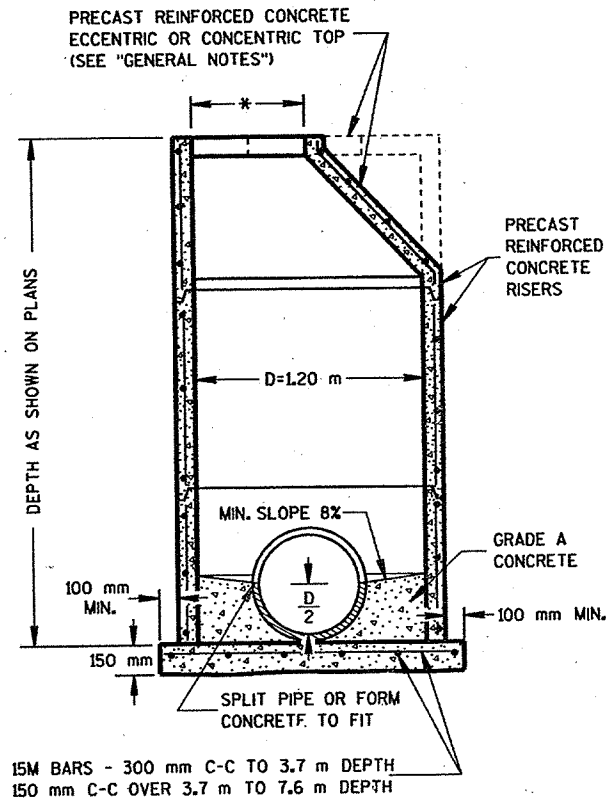
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 DATE: 3/27/98
 CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA **M**

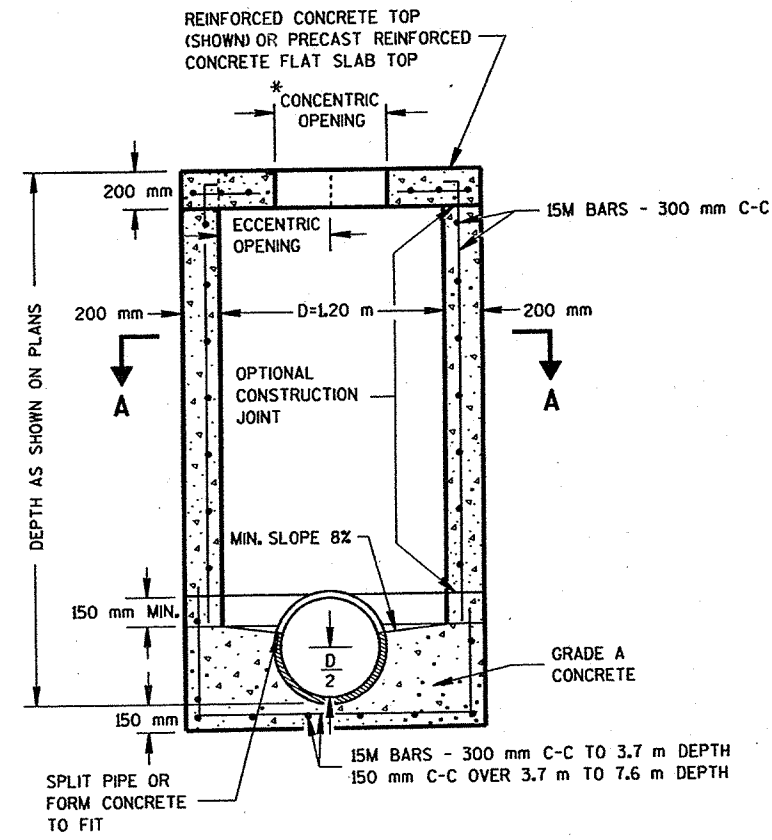
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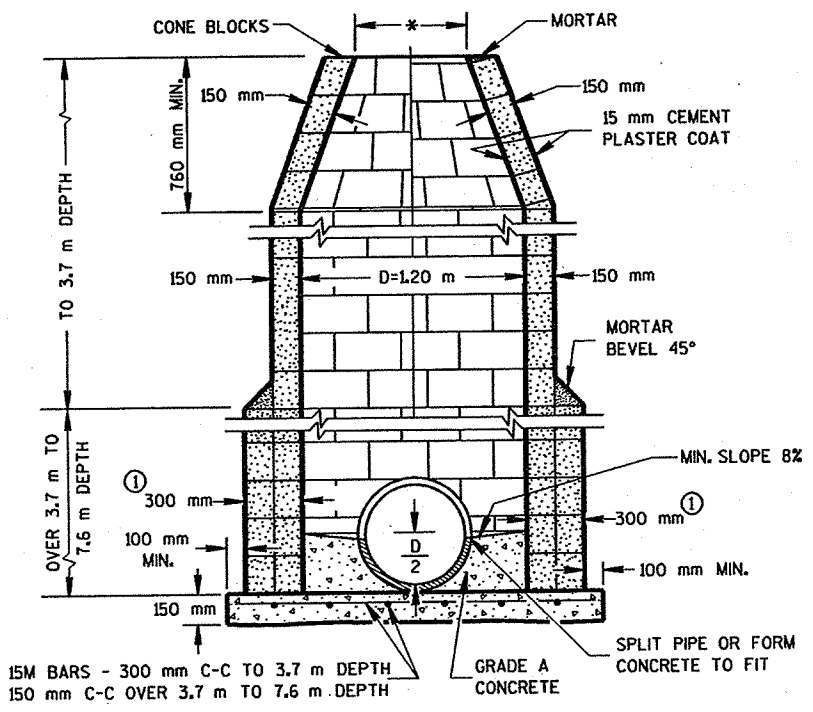
HALF SECTION A-A



PRECAST REINFORCED CONCRETE



SECTION B-B
REINFORCED CONCRETE



CONCRETE BLOCK

MANHOLES TYPE 1

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.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES I-C", "CATCH BASINS I-B", "INLETS 3-H", ETC. THE FIRST DIGIT DESIGNATES THE MASONRY PORTION OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

PRECAST REINFORCED BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 150 mm IN DEPTH, WHICH MEETS THE REQUIREMENTS OF GRANULAR BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

PRECAST REINFORCED CONE TOPS (ECCENTRIC OR CONCENTRIC) MAY BE USED ON CONCRETE BLOCK STRUCTURES. THE CONE TOPS SHALL BE INSTALLED ON A BED OF MORTAR.

ECCENTRIC CONE TOPS MAY BE USED ON ALL STRUCTURES, AND CONCENTRIC CONE TOPS SHALL BE USED ONLY ON STRUCTURES 1.5 m OR LESS IN DEPTH, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

STEPS MEETING THE FOLLOWING REQUIREMENTS SHALL BE INSTALLED IN ALL STRUCTURES OVER 1.5 m IN DEPTH: 400 mm C-C MAXIMUM SPACING; PROJECT A MINIMUM CLEAR DISTANCE OF 100 mm FROM THE WALL AT THE POINT OF EMBEDMENT; MINIMUM LENGTH OF 250 mm; MINIMUM WALL EMBEDMENT OF 75 mm; AND BE CAPABLE OF SUPPORTING A CONCENTRATED LOAD OF 136 kg FERROUS METAL STEPS NOT PAINTED OR TREATED TO RESIST CORROSION SHALL HAVE A MINIMUM CROSS SECTIONAL DIMENSION OF 25 mm.

SOLID ALUMINUM STEPS SHALL HAVE A MINIMUM CROSS SECTIONAL DIMENSION OF 19 mm. ALUMINUM SURFACES TO BE EMBEDDED IN CONCRETE SHALL BE GIVEN ONE COAT OF SUITABLE QUALITY PAINT, SUCH AS ZINC CHROMATE PRIMER CONFORMING TO FEDERAL SPECIFICATION TT-P-645 OR EQUIVALENT. STEPS OF APPROVED POLYPROPYLENE PLASTIC COATED REINFORCEMENT BAR ARE ACCEPTABLE.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 50 mm CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

PRECAST REINFORCED CONCRETE RISERS MAY BE PLACED WITH TONGUE UP OR DOWN.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M199M.

* USE 600 mm DIAMETER OPENING WITH TYPE "C", "L" AND "J" COVERS, OR 900 mm DIAMETER WITH TYPE "K" AND "M" COVERS.

① 2 COURSES 150 mm BLOCK.

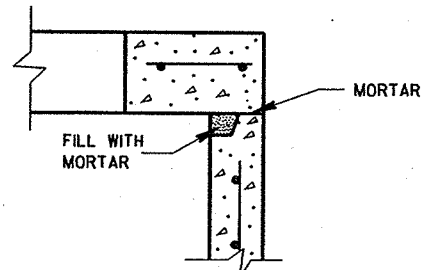
MANHOLES TYPE 1

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

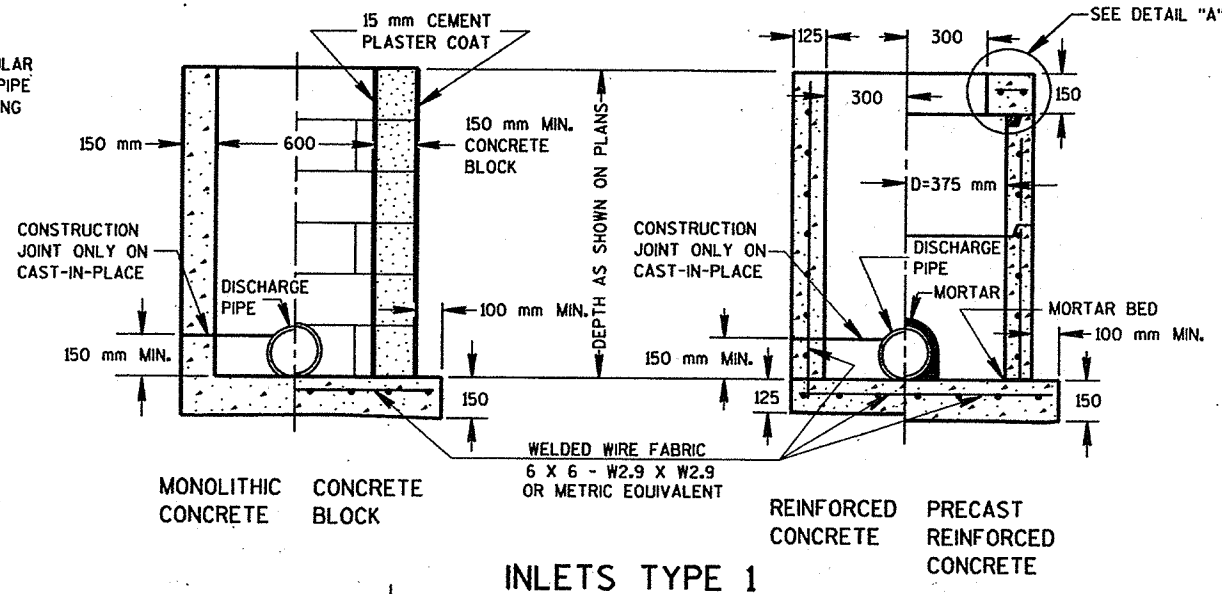
APPROVED
02/07/80
DATE
[Signature]
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

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

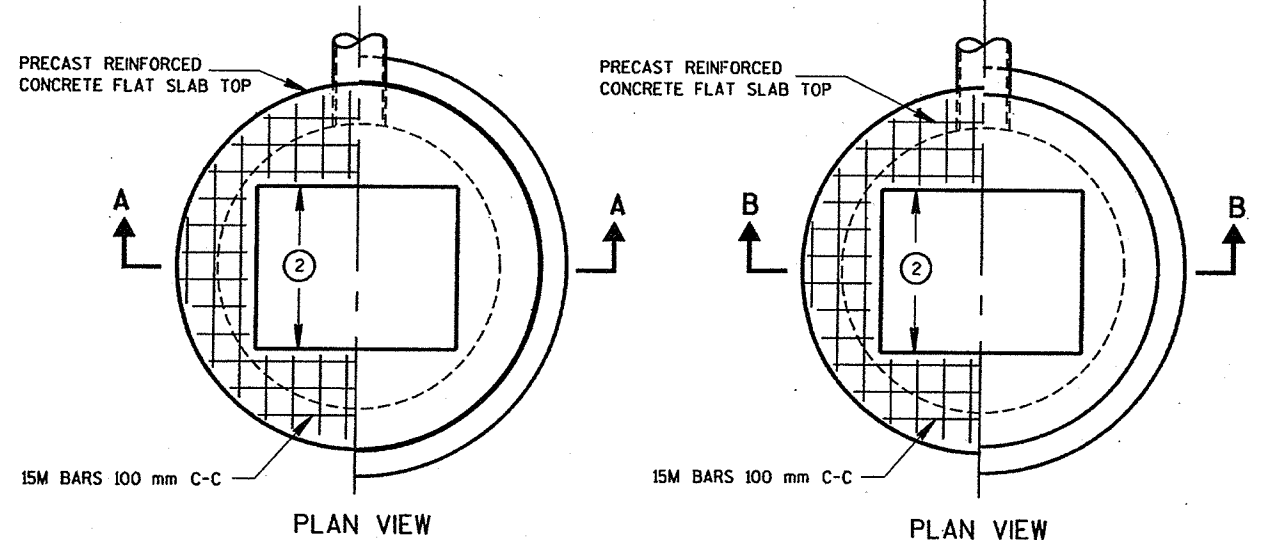
*SELECTION OF SQUARE OR CIRCULAR DESIGN WILL BE BASED ON THE PIPE SIZES AND THE INLET COVER BEING UTILIZED



DETAIL "A"

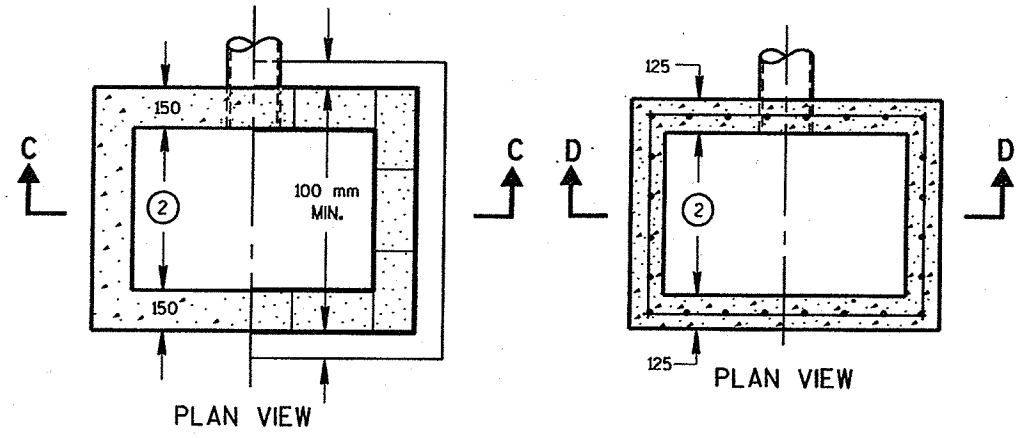


INLETS TYPE 1



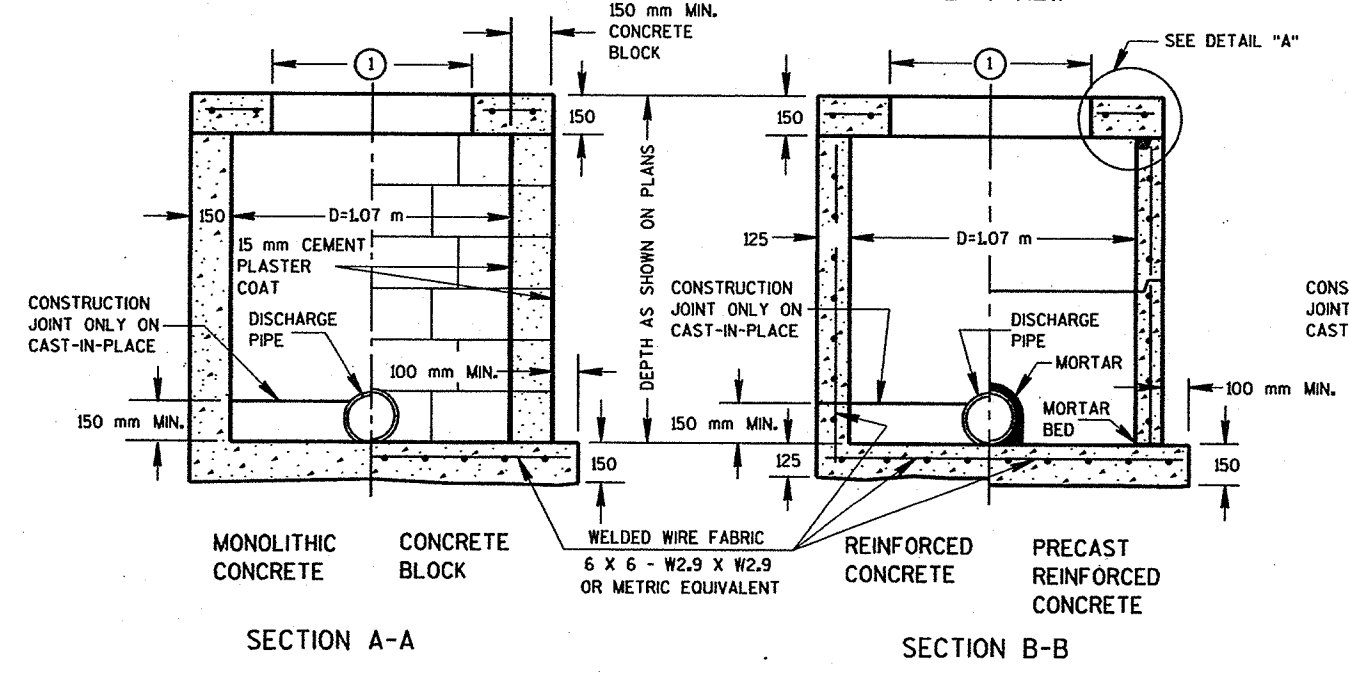
PLAN VIEW

PLAN VIEW



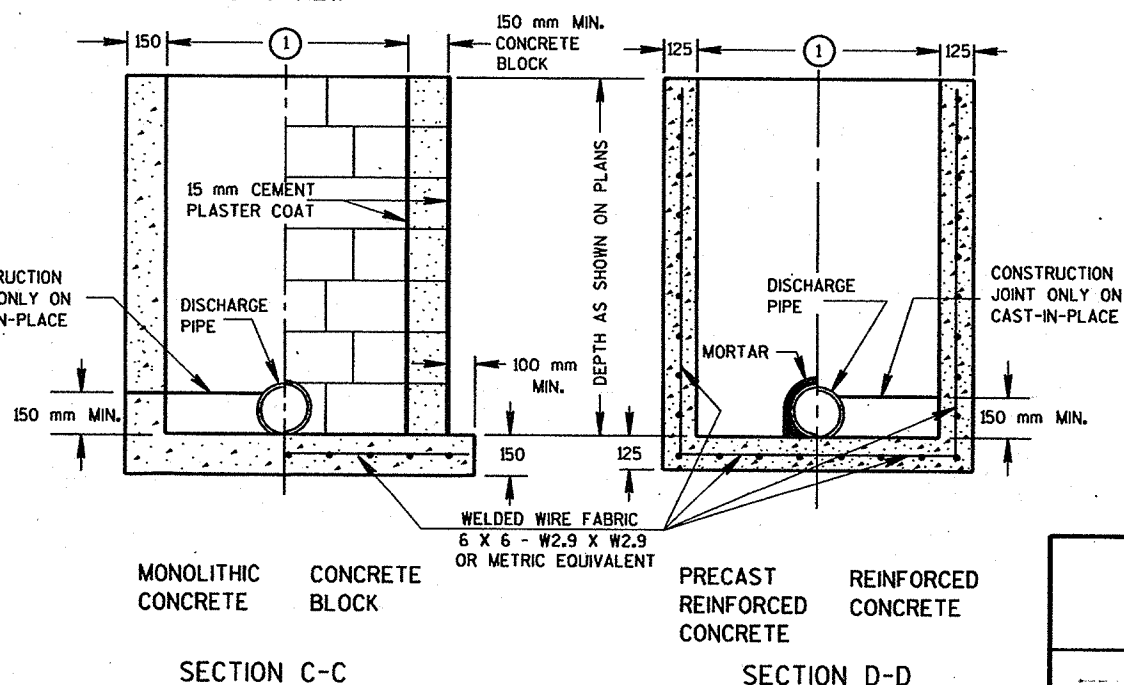
PLAN VIEW

PLAN VIEW



SECTION A-A

SECTION B-B



SECTION C-C

SECTION D-D

INLETS TYPE 2, 3 & 4

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.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION 199 M.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES I-C", "CATCH BASINS I-B", "INLETS 3-H", ETC. THE FIRST DIGIT DESIGNATES THE MASONRY PORTION OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

PRECAST REINFORCED BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 150 mm IN DEPTH, WHICH MEETS THE REQUIREMENTS OF GRANULAR BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

PRECAST REINFORCED CONCRETE FLAT SLAB TOPS MAY BE USED ON THE STRUCTURES. THE TOPS SHALL BE INSTALLED ON A BED OF MORTAR.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 50 mm CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

PRECAST REINFORCED CONCRETE RISERS SHALL BE PLACED WITH TONGUE DOWN.

- ① USE 760 mm OPENING FOR TYPE 2 INLETS, 915 mm. OPENING FOR TYPE 3 INLETS, AND 890 mm TYPE 4 INLETS.
- ② USE 610 mm OPENING FOR TYPE 1, 2 & 3 INLETS, 775 mm OPENING FOR TYPE 4 INLETS.

NOTE

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN.

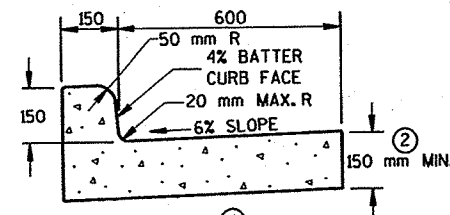
INLETS TYPE 1, 2, 3 & 4

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

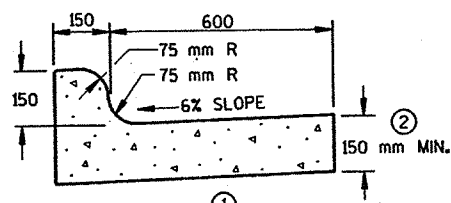
APPROVED
01/31/95
DATE
Roy L. Starnes
CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA

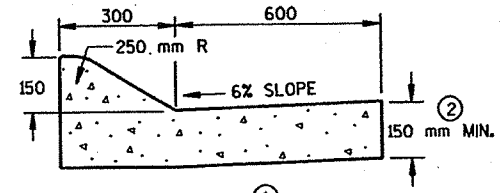
S.D.D. 8 D 1-12



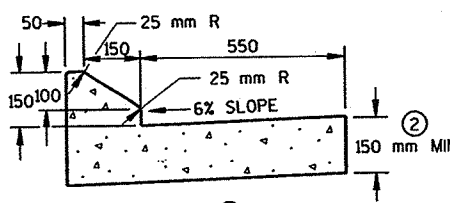
TYPES A & D



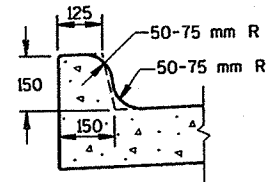
TYPES K & L



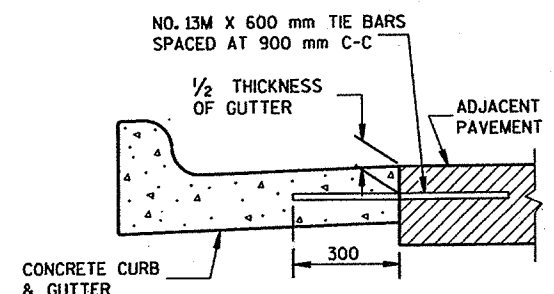
TYPES A & D
CONCRETE CURB & GUTTER 900 mm



TYPES G & J

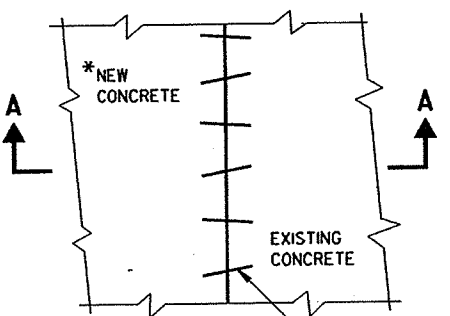


OPTIONAL CURB SHAPE
FOR TYPES K & L



TYPICAL TIE BAR LOCATION

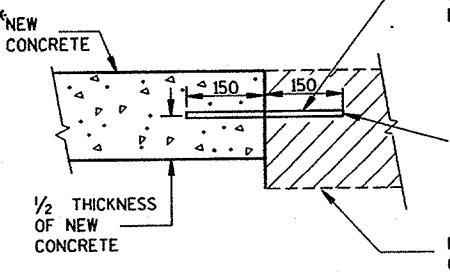
CONCRETE CURB & GUTTER 750 mm



PLAN VIEW

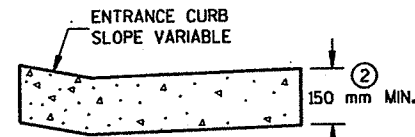
* NEW CURB & GUTTER,
SURFACE DRAINS,
CONCRETE PAVEMENT
OR OTHER NEW CONCRETE.

NO. 19M X 300 mm DEF. BARS
SPACED 900 mm C-C,
INSTALLED ON 6:1 SKEW
HORIZONTALLY. DIRECTION
OF SKEW ALTERNATING AFTER
EVERY ONE OR TWO BARS.

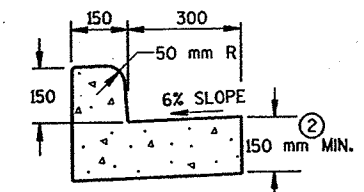


SECTION A-A
PAVEMENT TIES

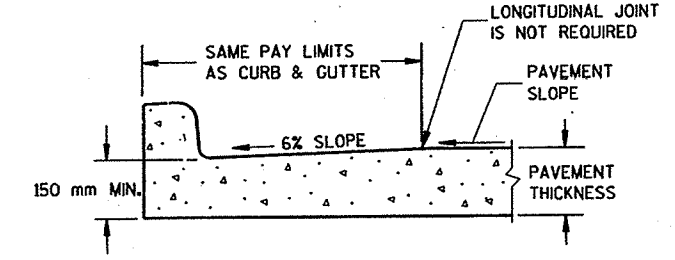
THE HOLE FOR THE BAR SHALL
BE DRILLED TO A DEPTH OF
175 mm AND TO SUCH A DIAMETER
AS TO PROVIDE A TIGHT
DRIVEN FIT



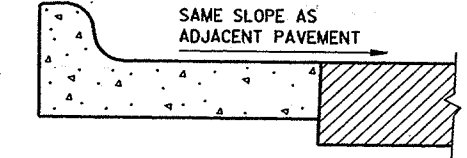
DRIVEWAY ENTRANCE CURB
(WHEN DIRECTED BY THE ENGINEER)



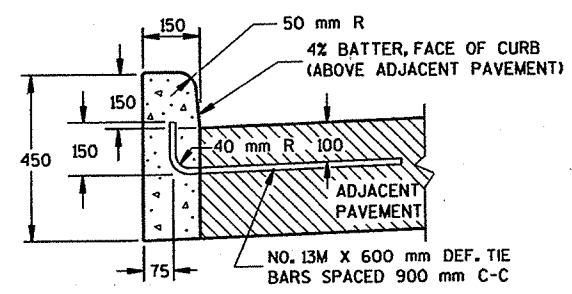
TYPES A & D
CONCRETE CURB & GUTTER 450 mm



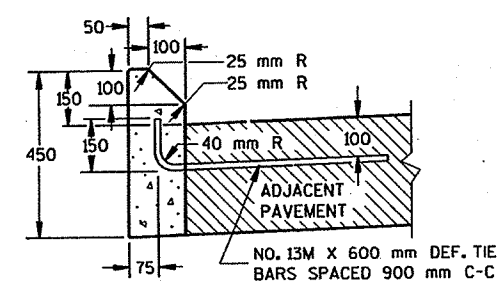
PARTIAL SECTION OF PAVEMENT
WITH INTEGRAL CURB & GUTTER



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



TYPES A & D



TYPES G & J

CONCRETE CURB

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.

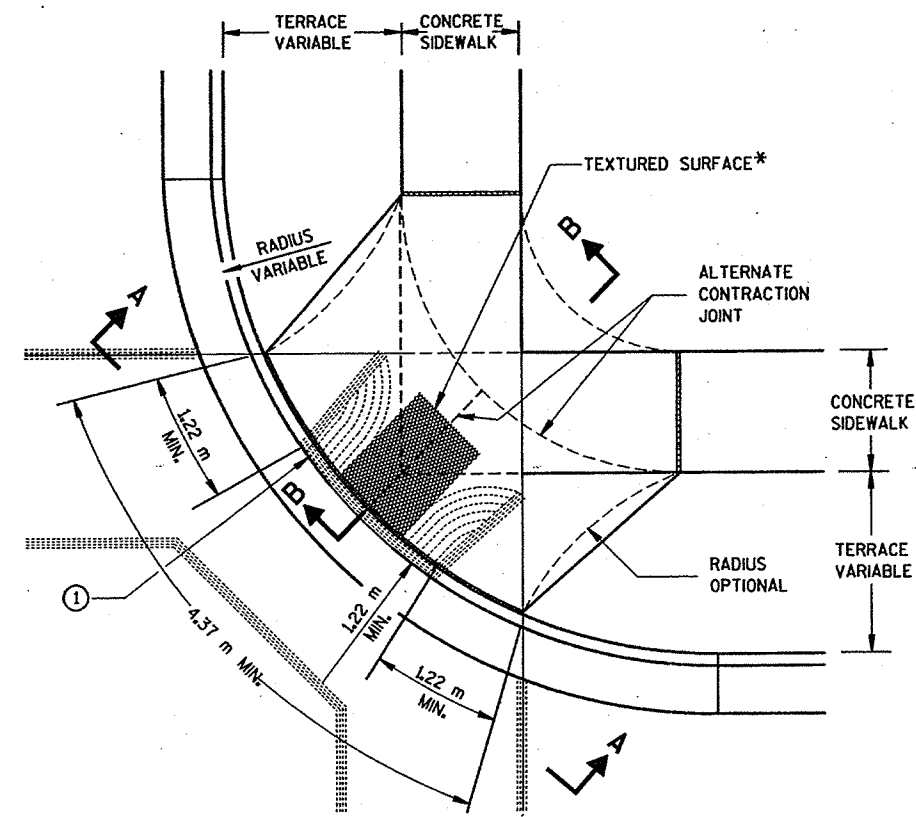
NOTE

DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN.

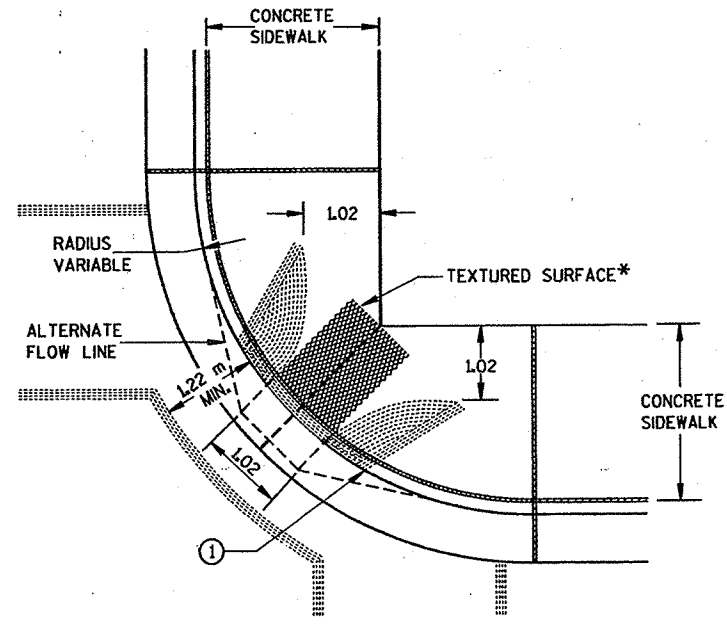
| | |
|---|--|
| CONCRETE CURB, CONCRETE CURB & GUTTER AND PAVEMENT TIES | |
| STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION | |
| APPROVED 10/22/96 DATE | CHIEF ROADWAY DEVELOPMENT ENGINEER |

PLOT SCALE:
 REV. DATE:
 ORIGINATOR:

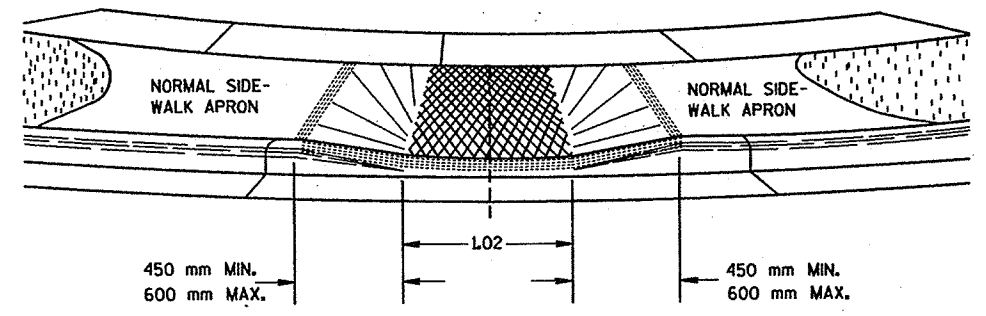
S.D.D. 8 D 5-8
 LEVELS ON - 2,3,4,5,6,7,8, 9,10,11,12,13,14,15,16,17,18,19, 20,21,22, 23,24, 25, 26,27, 28,29,30,31,32,33, 34,35,36,37,38,39, 40,41, 42,43,44,45,46,47, 48, 49,50,51,52,53,54,55,56,57,58,59,60,61,62,63



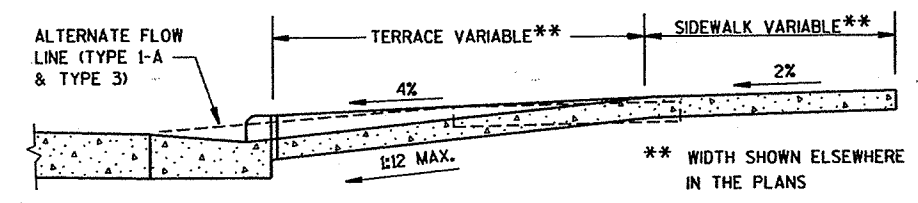
PLAN VIEW
TYPE 1 RAMP
(CENTER OF CORNER RADIUS)



PLAN VIEW
TYPE 1+A RAMP
(NO TERRACE)



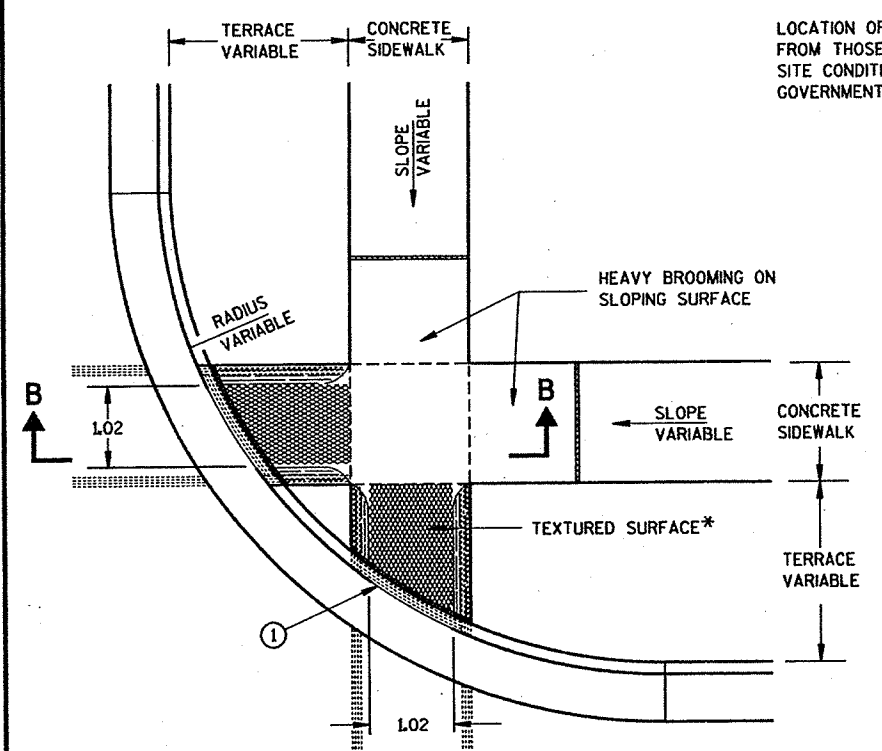
VIEW A-A



SECTION B-B

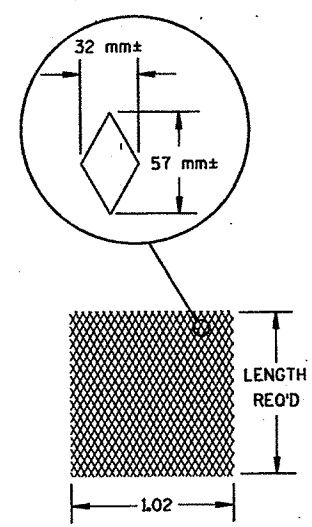
GENERAL NOTES

- 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.
- RAMPS SHALL BE BUILT AT 1:12 OR FLATTER. WHEN NECESSARY, THE SIDEWALK ELEVATION MAY BE LOWERED TO MEET THE HIGH POINT ON THE RAMP.
- TYPE 1 OR TYPE 1-A RAMPS SHALL HAVE A NORMAL SIDEWALK APRON AND CURB ON BOTH SIDES OF RAMP.
- CURB RAMPS SHALL BE MEASURED AND PAID FOR AS CONCRETE SIDEWALK AND CONCRETE CURB AND GUTTER.
- SURFACE TEXTURING SHALL CONSIST OF LINEAR IMPRESSIONS APPROXIMATELY 6 mm TO 9 mm IN DEPTH AND WIDTH, ORIENTED TO PROVIDE A UNIFORM PATTERN OF DIAMOND SHAPES MEASURING APPROXIMATELY 32 mm IN WIDTH BY 57 mm IN LENGTH, WITH THE LENGTH BEING PARALLEL TO THE DIRECTION OF PEDESTRIAN MOVEMENT. THIS SURFACE TEXTURE MAY BE ACHIEVED BY IMPRESSING AND REMOVING A PIECE OF EXPANDED METAL REGULAR INDUSTRIAL MESH INTO THE SURFACE OF THE RAMP WHILE THE CONCRETE IS IN A PLASTIC STATE.
- ① THE RAMP SHALL BE BORDERED ON BOTH SIDES AND ON THE CURB LINE WITH A 100 mm WIDE YELLOW PAINT STRIPE OR WITH BRICK OF A CONTRASTING COLOR. NORMALLY THE PAINT STRIPE ALTERNATE WILL BE USED. THE MUNICIPALITY OR THE DEPARTMENT WILL APPLY THIS STRIPPING UNLESS OTHERWISE SPECIFIED IN THE CONTRACT.
- IF A MUNICIPALITY REQUIRES THE BRICK ALTERNATE, SPECIAL DETAILS AND PROVISIONS ARE SHOWN ELSEWHERE IN THE PLANS.
- NOTE: ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

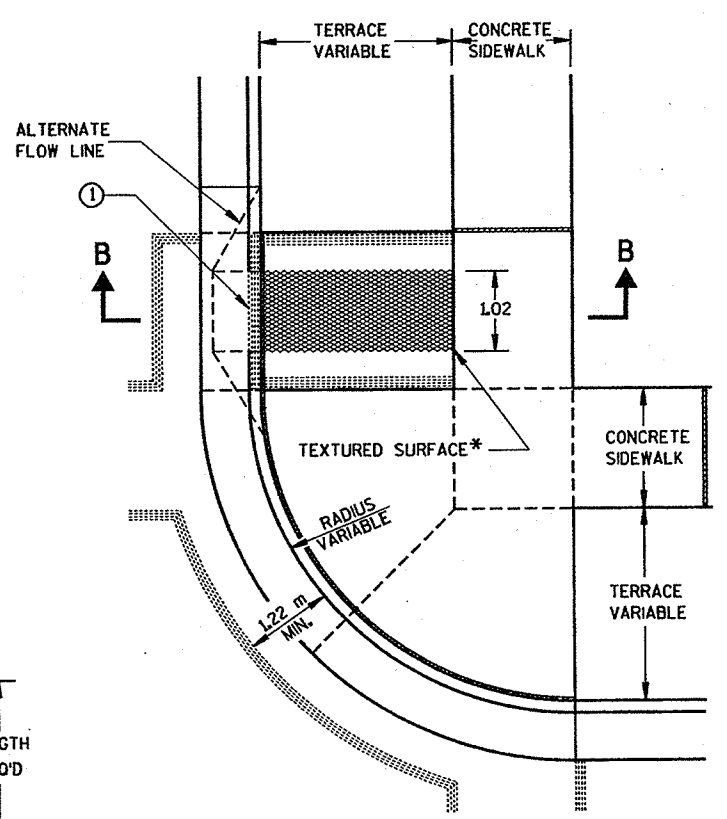


PLAN VIEW
TYPE 2 RAMP
(ON LINE WITH SIDEWALK)

13 mm ——— EXPANSION JOINT-SIDEWALK
 - - - - - CONTRACTION JOINT
 LOCATION OF JOINTS MAY BE VARIED FROM THOSE SHOWN TO BETTER FIT SITE CONDITIONS AND/OR LOCAL GOVERNMENT PREFERENCE.



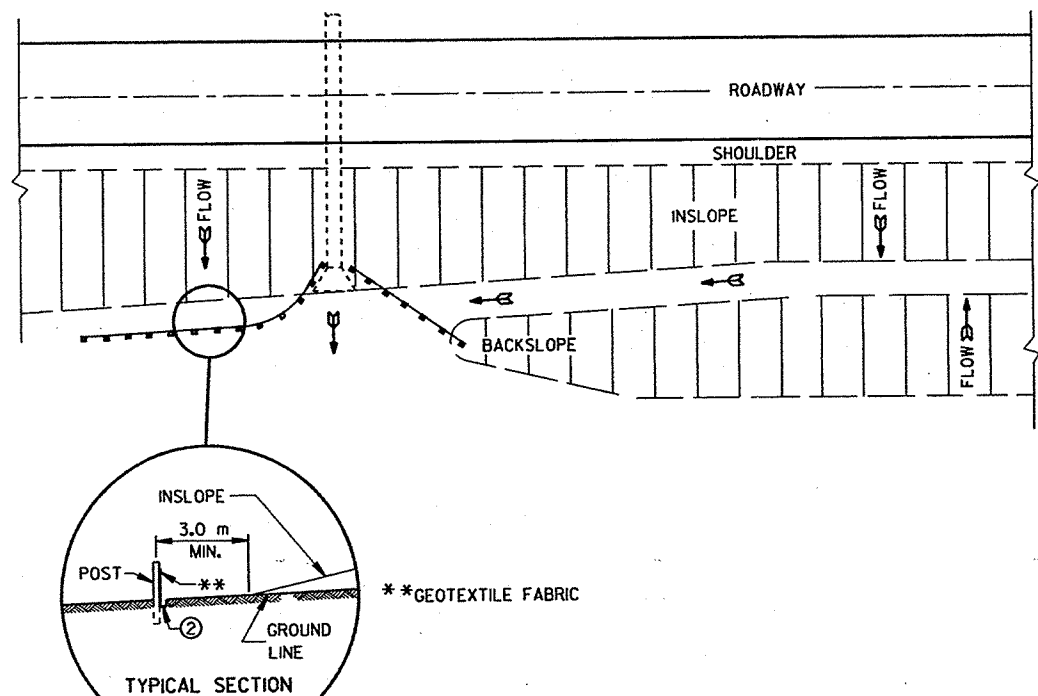
DETAIL OF DIAMOND PATTERN*



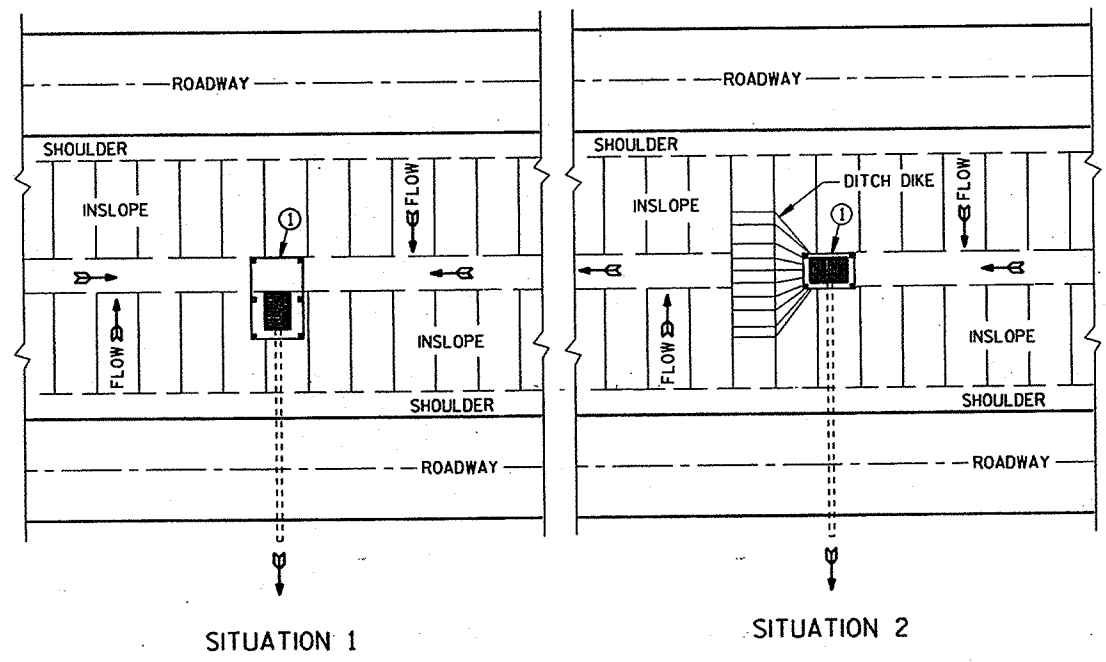
PLAN VIEW
TYPE 3 RAMP
(OUTSIDE OF CROSSWALK AREA)

| | |
|--|---|
| CURB RAMPS | |
| STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION | |
| APPROVED 01/27/95 DATE | ROY A. THOMPSON CHIEF ROADWAY DEVELOPMENT ENGINEER |
| FRWA | 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 E 9-5



PLAN VIEW
TYPICAL APPLICATIONS OF SILT FENCE

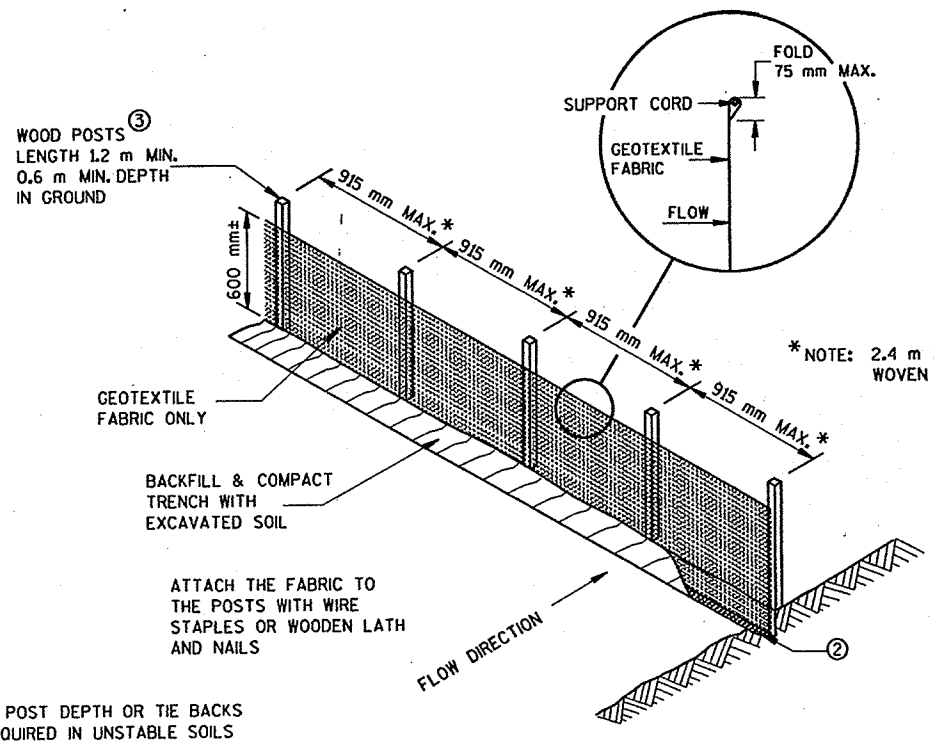


SITUATION 1 SITUATION 2
PLAN VIEW
SILT FENCE AT MEDIAN SURFACE DRAINS

GENERAL NOTES

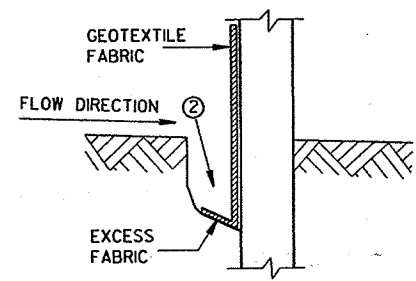
DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

- ① HORIZONTAL BRACE WITH 50 mm X 100 mm WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS AS DIRECTED BY THE ENGINEER.
- 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.

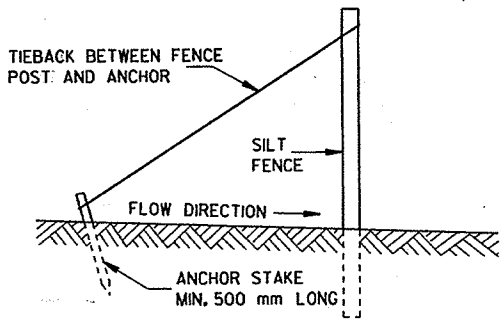


SILT FENCE
(NON-REINFORCED)

NOTE: ADDITIONAL POST DEPTH OR TIE BACKS MAY BE REQUIRED IN UNSTABLE SOILS

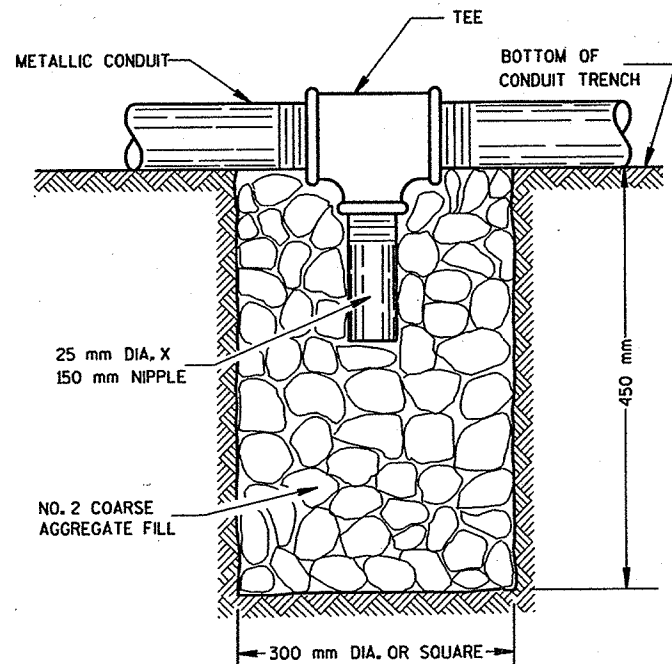


TRENCH DETAIL



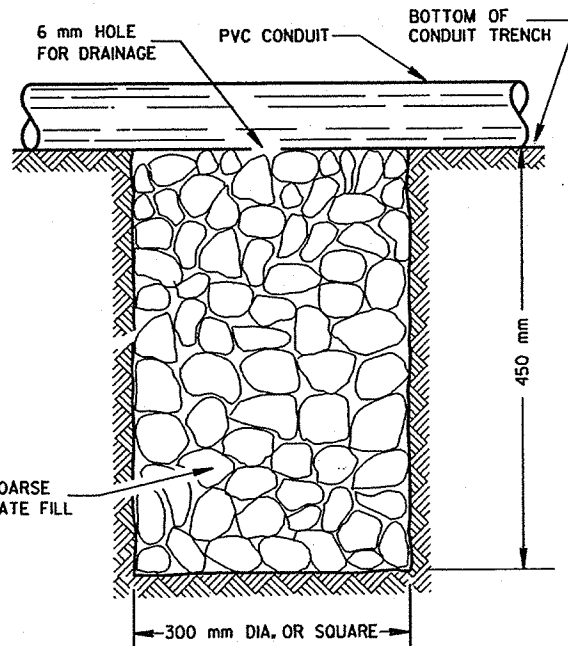
SILT FENCE TIE BACK
(WHEN REQUIRED BY THE ENGINEER)

| | |
|--|--|
| SILT FENCE | |
| STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION | |
| APPROVED 03/11/96 DATE | CHIEF ROADWAY DEVELOPMENT ENGINEER |
| FHWA M | |



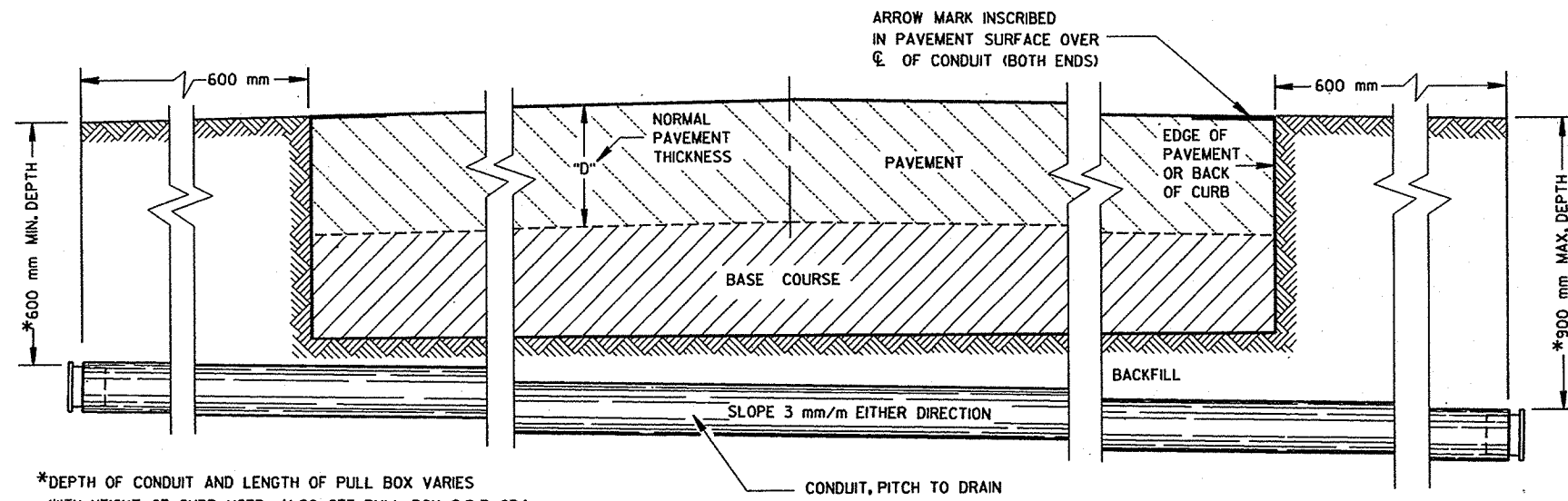
NOTE: INSTALL AT LOCATIONS WHERE METALLIC CONDUITS CANNOT BE PITCHED TO DRAIN INTO A PULL BOX.

DRAIN SUMP FOR METALLIC CONDUIT



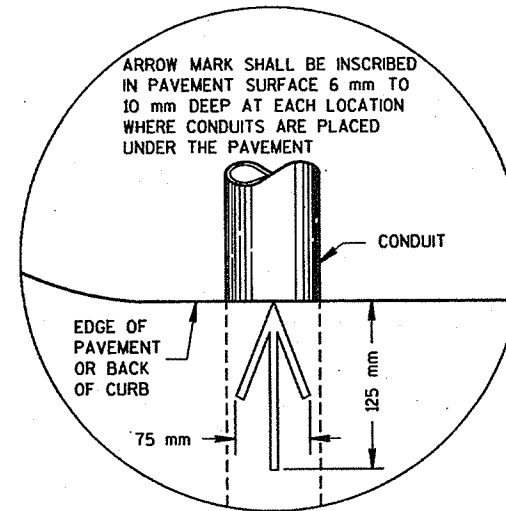
NOTE: INSTALL AT LOCATIONS WHERE PVC CONDUITS CANNOT BE PITCHED TO DRAIN INTO A PULL BOX.

DRAIN SUMP FOR PVC CONDUIT



*DEPTH OF CONDUIT AND LENGTH OF PULL BOX VARIES WITH HEIGHT OF CURB USED. ALSO SEE PULL BOX S.D.D. 9B4

**SIDE ELEVATION
DETAIL FOR CONDUIT UNDER PAVED HIGHWAYS**



**PLAN VIEW
ARROW MARK**

GENERAL NOTES

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

METRIC MEASUREMENTS ARE BASED ON 25 mm (NOMINAL) PER INCH.

METALLIC (STANDARD SPECIFICATION 652.2.2) OR NONMETALLIC (STANDARD SPECIFICATION 652.2.3) CONDUIT SHALL BE FURNISHED AND PLACED AS SHOWN.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 600 mm MINIMUM AND 900 mm MAXIMUM.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 450 mm MIN. AND 900 mm MAXIMUM.

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

THE TRENCH SHALL NOT BE BACKFILLED PRIOR TO INSPECTION OF THE CONDUIT.

ALL METALLIC CONDUIT RACEWAY ENDS SHALL BE REAMED AND THREADED.

ALL METALLIC CONDUIT IN WHICH WIRE OR CABLE IS TO BE INSTALLED SHALL BE BUSHED WITH APPROVED THREADED BUSHINGS BEFORE INSTALLATION OF THE WIRE OR CABLE.

ALL METALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT TO BE INSTALLED SHALL BE CAPPED WITH THREADED PROTECTIVE CAPS, AS APPROVED BY THE ENGINEER.

ALL NONMETALLIC CONDUIT SHALL BE CAPPED OR PLUGGED IMMEDIATELY AFTER INSTALLATION AND SHALL REMAIN CAPPED OR PLUGGED UNTIL WIRE/CABLES ARE INSTALLED.

NONMETALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BENDING OF PVC ELECTRICAL CONDUIT SHALL BE ACCOMPLISHED BY USING A BLANKET OR EMERSON TYPE TANK DESIGNED FOR THE PURPOSE OF BENDING PVC ELECTRICAL CONDUIT.

ALL CUT ENDS SHALL BE TRIMMED INSIDE AND OUTSIDE TO REMOVE ALL ROUGH EDGES ON NONMETALLIC CONDUIT. (SEE NEC 347.5)

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY U.L. LISTED ADAPTER FITTINGS SHALL BE USED.

PRIOR TO CONDUIT ACCEPTANCE, CONDUIT CAPS OR PLUGS SHALL BE REMOVED, AND THE CAPS, PLUGS AND CONDUIT ENDS SHALL BE THOROUGHLY CLEANED AND THEN THE CAPS OR PLUGS REINSTALLED TO ENSURE THAT THE CAPS OR PLUGS CAN BE EASILY REMOVED IN THE FUTURE.

ALL CONDUIT BEING FURNISHED AND INSTALLED SHALL HAVE THE U.L. LABEL FIRMLY ATTACHED.

CONDUIT RUNS SHALL BE THE SAME SIZE PIPE FROM ONE END TO THE OTHER (FROM PULL BOX TO PULL BOX-OR-JUNCTION BOX TO JUNCTION BOX-OR-BASE TO BASE, ETC.).

POLY ROPE OR A PULL WIRE SHALL BE INSTALLED AS STATED IN THE STANDARD SPECIFICATION, ITEM 652.3.LL

ALL CONDUIT RUNS SHALL BE STRAIGHT (WITHOUT BENDS) FROM PULL BOX TO PULL BOX, PULL BOX TO BASE AND BASE TO BASE AS SHOWN ON THE PLANS UNLESS OTHERWISE APPROVED BY THE PROJECT ENGINEER.

| | |
|--|---|
| CONDUIT | |
| STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION | |
| APPROVED 10/21/96 DATE | <i>Bala Arun</i> STATE ELECTRICAL ENGINEER FOR HIGHWAYS |
| FHWA | M |

PLOT SCALE:

PLOT NAME:

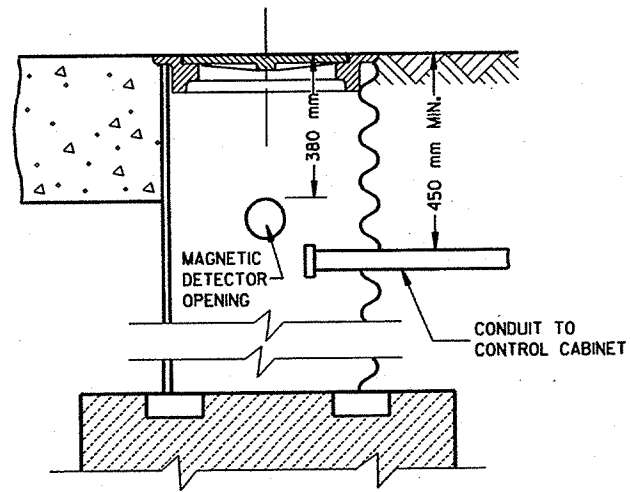
REV. DATE:

ORIGINATOR:

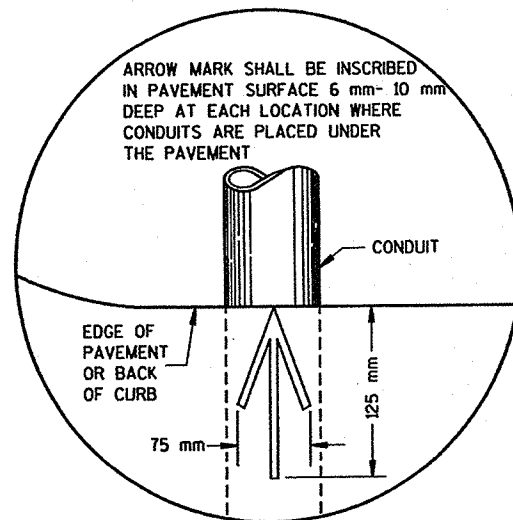
S.D.D. 9 B 2-6

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. 9 B 3-2
 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



DETECTOR IBNSTALLATION AT PULL BOX



**PLAN VIEW
ARROW MARK**

GENERAL NOTES

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

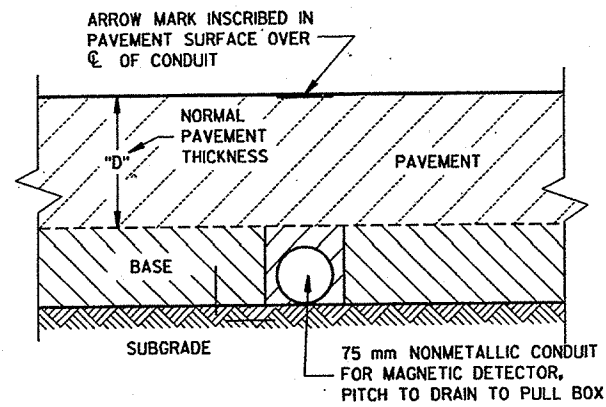
METRIC MEASUREMENTS ARE BASED ON 25 mm (NOMINAL) PER INCH.

ONLY NONMETALLIC CONDUIT SHALL BE FURNISHED AND SHALL BE PLACED AS SHOWN.

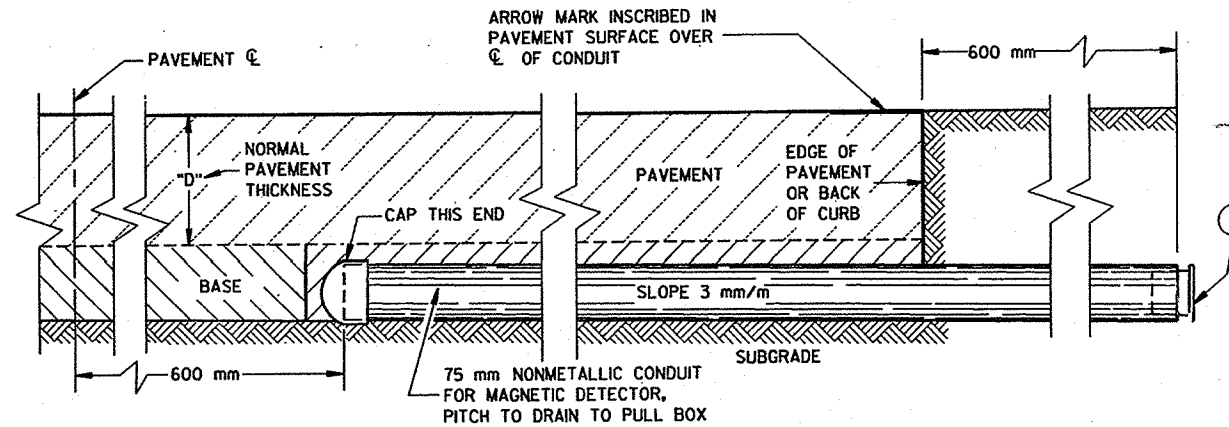
① PRIOR TO BACKFILLING, THE CAPS OR PLUGS SHALL BE REMOVED, AND THE CAPS, PLUGS AND CONDUIT ENDS SHALL BE THOROUGHLY CLEANED AND THEN REINSTALLED TO ASSURE THAT THE CAPS OR PLUGS CAN BE EASILY REMOVED IN THE FUTURE.

PRIOR TO INSTALLATION OF A MAGNETIC DETECTOR, THE PLUG OR CAP SHALL BE REMOVED AND AN END BELL (U.L. LISTED FOR ELECTRICAL USE) INSTALLED.

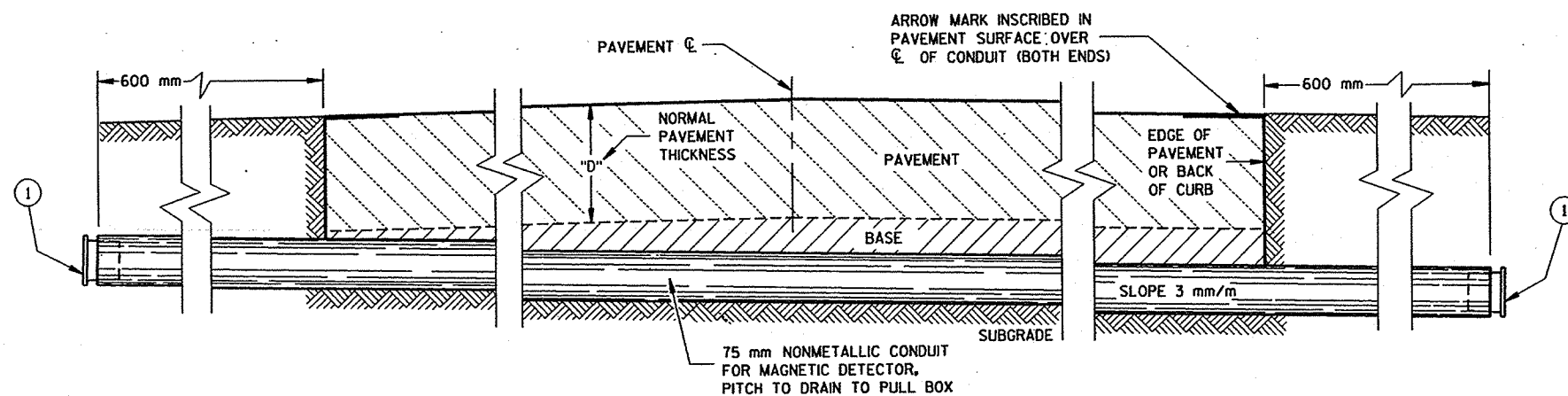
THE STANDARD DETAIL DRAWING "CONDUIT" 9B2 SHALL APPLY TO THIS DRAWING.



**END ELEVATION
MAGNETIC DETECTOR CONDUIT**



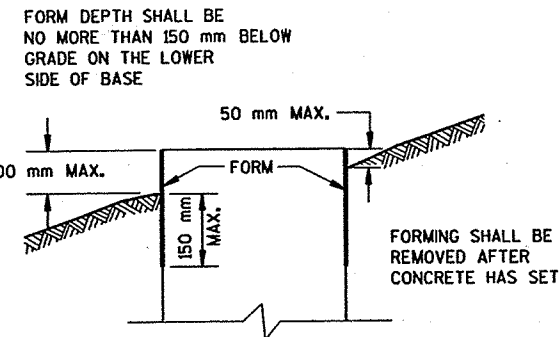
**SIDE ELEVATION
MAGNETIC DETECTOR CONDUIT FOR UNDIVIDED HIGHWAYS**



**SIDE ELEVATION
MAGNETIC DETECTOR CONDUIT FOR DIVIDED HIGHWAYS**

| | |
|--|---|
| CONDUIT FOR MAGNETIC DETECTOR | |
| STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION | |
| APPROVED <i>10/21/66</i> DATE | STATE ELECTRICAL ENGINEER FOR HIGHWAYS |
| FHWA | M |

S.D.D. 9 C 2-2
 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

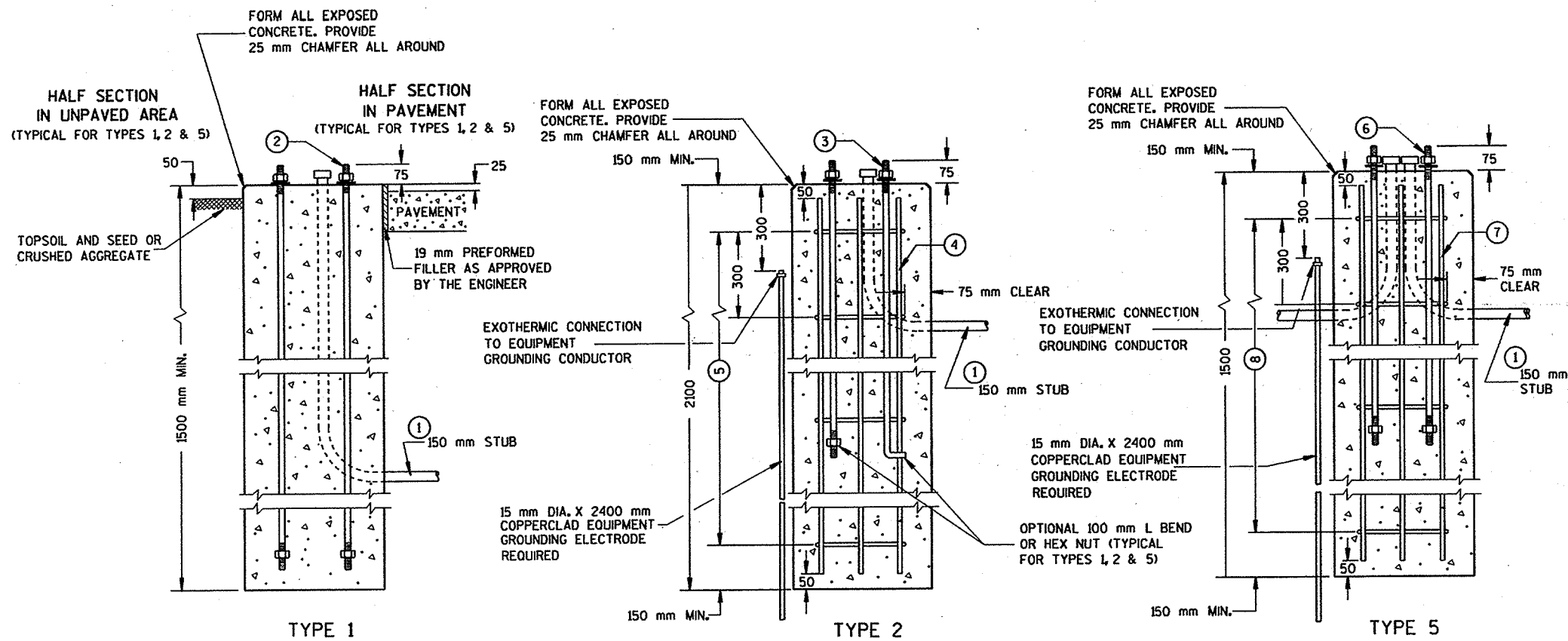
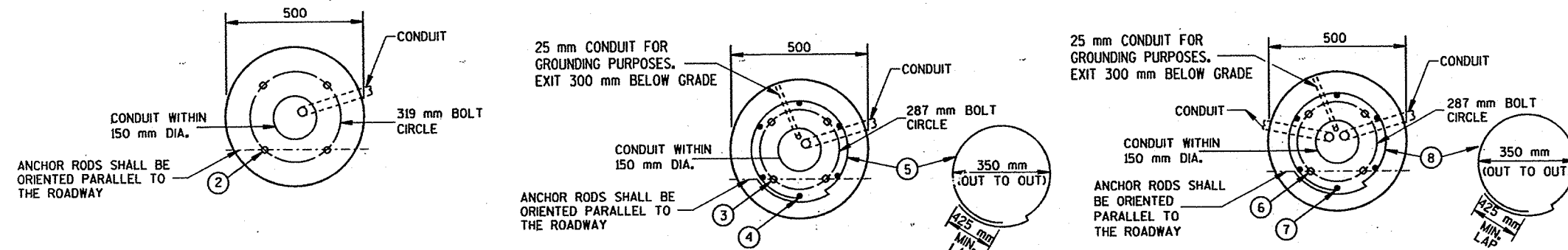


FORMING DETAIL

| QUANTITY REQUIREMENTS | CONCRETE BASE TYPE | | |
|----------------------------------|--------------------|------|------|
| | 1 | 2 | 5 |
| APPROX. CUBIC METERS OF CONCRETE | .306 | .44 | .306 |
| kg OF HOOP BAR STEEL | NONE | 10.4 | 7.26 |
| kg OF VERTICAL BAR STEEL | NONE | 27.2 | 8.16 |

NOTE:

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN.



CONCRETE BASES

GENERAL NOTES

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

METRIC MEASUREMENTS ARE BASED ON 25 mm (NOMINAL) PER INCH.

BASES SHALL BE EXCAVATED BY USE OF A CIRCULAR AUGER.

TOP SURFACES OF CONCRETE BASES SHALL BE TROWEL FINISHED AND LEVEL.

CONDUIT SIZES AND LOCATIONS SHALL BE AS SHOWN ON THE PLANS.

THE FINAL OR TERMINATING CONCRETE BASE IN A CONDUIT RUN SHALL HAVE A 150 mm EXIT STUB INSTALLED FOR FUTURE CABLING USE. THE EXIT STUB SHALL BE SIZED AS USED THROUGHOUT THE CONDUIT RUN SHOWN AT THE ENTRANCE OF THE BASE.

MINIMUM BENDING RADIUS OF CONDUIT IS EQUAL TO 6 X THE DIAMETER.

CONDUIT HEIGHT ABOVE CONCRETE BASES SHALL BE 25 mm. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF CONCRETE BASES BEFORE INSTALLATION OF CABLE OR WIRE.

ENDS OF CONDUIT INSTALLED BELOW GRADE FOR FUTURE USE SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC.

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

IF A BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE DIRT OR FILL, THE FORM SHALL BE REMOVED BEFORE BACKFILLING AROUND THE BASE. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BARE CONCRETE BASE IN LAYERS OF 300 mm OR LESS.

A NO. 4 AWG, STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE EQUIPMENT GROUNDING ELECTRODE (GROUND ROD) FOR TYPE 2 AND TYPE 5 BASES.

THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE FURNISHED AND INSTALLED TO ENTER THE BASE OF THE TYPE 2 AND TYPE 5 BASES THROUGH A 25 mm CONDUIT INSTALLED FOR GROUNDING PURPOSES, LEAVING A 1200 mm COIL OF WIRE ABOVE THE CONCRETE BASE. THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE NEATLY COILED AND THE COILS TIED TOGETHER.

ANCHOR RODS SHALL BE THREADED 300 mm IN LENGTH ON EACH END OF THE ROD. ANCHOR RODS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 654.2.1 AND 641.2.2 OF THE STANDARD SPECIFICATIONS, ASTM A-449, OR ASTM A-687 (GRADE 105).

WASHERS AND LOCK WASHERS ARE REQUIRED ON ALL ANCHOR RODS.

WHEN ANCHOR RODS USING THE ALTERNATE "L" BEND ARE FURNISHED, THE 100 mm "L" BEND SHALL BE IN ADDITION TO THE SPECIFIED ANCHOR ROD BAR LENGTH. THE "L" BEND END SHALL NOT BE THREADED.

WELDING OF THE ANCHOR RODS TO THE CAGE IS UNACCEPTABLE. TIE WIRES SHALL BE USED.

BAR STEEL REINFORCEMENT SHALL BE COATED WITH POWERED EPOXY RESIN IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECIFICATION (LATEST EDITION).

METRIC ANCHOR ROD SIZES SHOWN ARE SOFT CONVERTED ENGLISH SIZES.

- ① THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE AND INSTALLED BELOW THE TRAVELED WAY SHALL BE 600 mm. THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE THAT IS NOT INSTALLED BELOW THE TRAVELED WAY SHALL BE 450 mm. THE MAXIMUM DEPTH OF ALL CONDUIT SHALL BE 900 mm EXCEPT WITH WRITTEN APPROVAL BY THE ENGINEER.
- ② (4) 25.4 mm DIA. X 1050 mm ANCHOR RODS.
- ③ (4) 25.4 mm DIA. X 1500 mm ANCHOR RODS.
- ④ (6) NO 19 X 2000 mm BAR STEEL REINFORCEMENT.
- ⑤ (7) NO 13 X 1525 mm BAR STEEL REINFORCEMENT @ 300 mm C-C.
- ⑥ (4) 25.4 mm DIA. X 1050 mm ANCHOR RODS.
- ⑦ (6) NO 13 X 1400 mm BAR STEEL REINFORCEMENT
- ⑧ (5) NO 13 X 1525 mm BAR STEEL REINFORCEMENT @ 300 mm C-C.

CONCRETE BASES,
TYPES 1, 2 & 5

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
DATE *[Signature]*
STATE ELECTRICAL ENGINEER FOR HIGHWAYS

GENERAL NOTES

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

METRIC MEASUREMENTS ARE BASED ON 25 mm (NOMINAL) PER INCH.

FOUR (4) BOLTS (25.4 mm X 3.00 X 100 mm) TO BE FURNISHED WITH EACH TRANSFORMER BASE. BOLTS SHALL BE 25.4 mm DIAMETER, 100 mm IN LENGTH, WITH WASHERS, LOCK WASHERS AND NUTS. BOLTS, NUTS AND WASHERS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 641.2.2 OF THE STANDARD SPECIFICATIONS, ASTM A-325, (634 MPa YIELD) HEAVY HEX NUT, AND BE GALVANIZED IN ACCORDANCE WITH ASTM A-153, CLASS C.

LEVELING SHIMS, IF NEEDED, SHALL BE DESIGNED FOR THE PURPOSE AND USED UNDER CAST BASES WHEN PLUMBING POLES OR STANDARDS DURING INSTALLATION. THE USE OF WASHERS IN LIEU OF PROPER LEVELING SHIMS IS NOT ACCEPTABLE.

SHIM LENGTH SHALL BE LONG ENOUGH TO COMPLETELY COVER THE AREA UNDER THE LENGTH AND WIDTH OF THE BASE MOUNTING FLANGE.

DOUBLE NUTTING IS NOT ACCEPTABLE FOR LEVELING OR MOUNTING PURPOSES.

A NEMA APPROVED AND U.L. LISTED MECHANICAL CONNECTOR (LUG) AL/CU RATED AND SIZED TO ACCEPT #10 AWG STRANDED WIRE, SHALL BE FURNISHED AND INSTALLED IN THE PEDESTAL AND TRANSFORMER BASES.

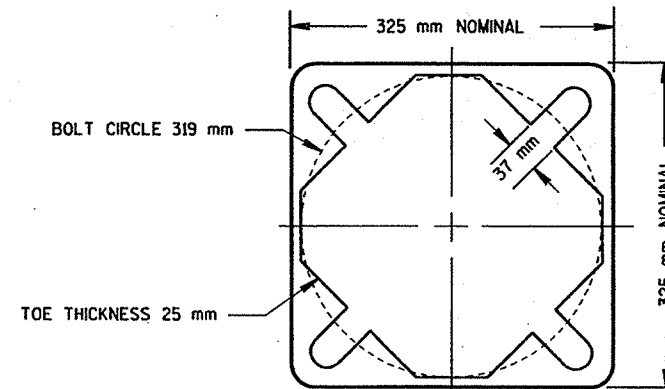
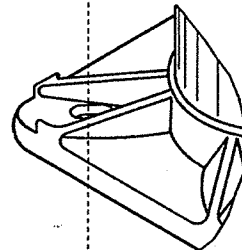
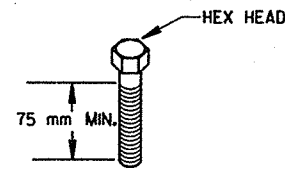
THE MECHANICAL CONNECTOR SHALL BE INSTALLED USING AN M6 X 1.00 X 19 mm STAINLESS STEEL HEX HEAD BOLT OF SUFFICIENT LENGTH TO FIRMLY ATTACH THE LUG TO THE BASE.

SHOULD THE MANNER OF ATTACHMENT OF THE LUG REQUIRE WASHERS, HEX NUTS, LOCK WASHER - THEY SHALL BE STAINLESS STEEL AS IS THE BOLT. THE MANNER OF ATTACHMENT SHALL NOT BLOCK ACCESSIBILITY TO WIRE PLACEMENT IN THE CONNECTOR.

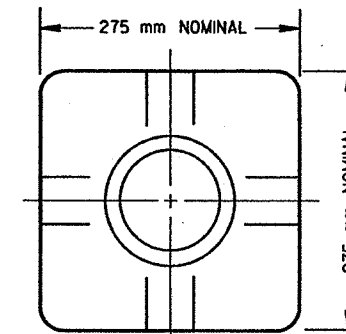
PEDESTAL BASE COLLAR THREADING SHALL BE TAPERED AND IN ACCORDANCE WITH NATIONAL PIPE THREADING DIMENSIONS.

BASE COLLAR THREADING SHALL EXTEND INTO THE BASE COLLAR WITH SUFFICIENT DEPTH TO ACCEPT THE INSTALLATION OF TRAFFIC SIGNAL STANDARDS TO A DEPTH OF 37 mm, THEN TIGHTENING TO A POINT OF BEING IMMOVABLE.

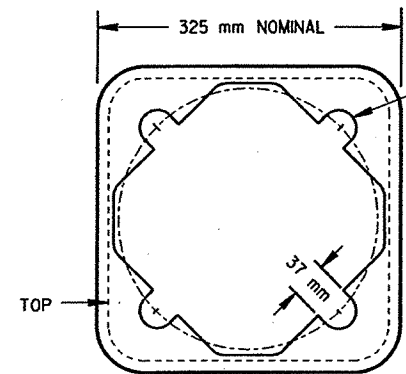
THE ACCESS DOOR SHALL BE OF THE SAME MATERIAL AS THE BASE.



**BOTTOM VIEW
(PEDESTAL BASE)**

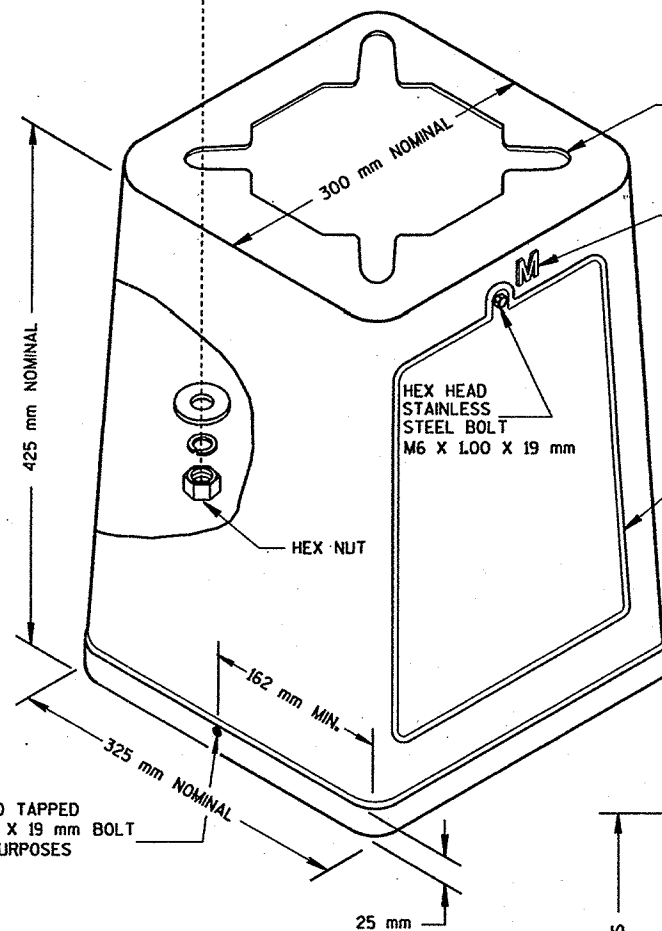


**TOP VIEW
(PEDESTAL BASE)**



**BOTTOM VIEW
(TRANSFORMER BASE)**

SLOTTED FOR 25.4 mm DIA. BOLTS ON 250 mm THROUGH 300 mm BOLT CIRCLE



ISOMETRIC VIEW

SLOTTED FOR 25.4 mm DIA. BOLTS ON 250 mm THROUGH 300 mm BOLT CIRCLE

12 mm INDENTED LETTER TO INDICATE METRIC THREADING

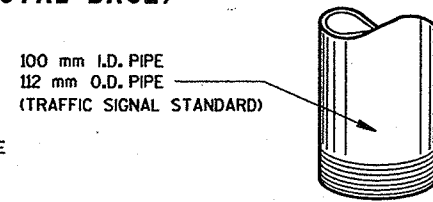
HOLE DRILLED AND TAPPED FOR A M6 X 1.00 X 19 mm BOLT FOR GROUNDING PURPOSES (SEE DETAIL)

ACCESS OPENING NOMINAL 337 mm X 219 mm X 237 mm

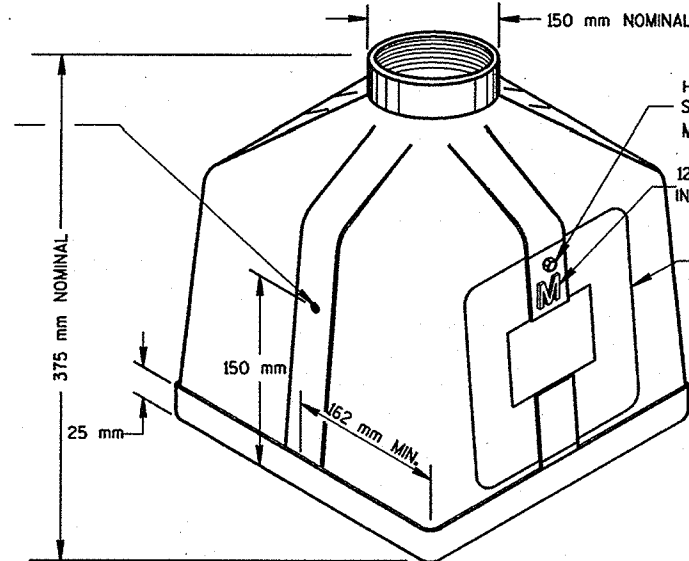
HEX NUT

HEX HEAD STAINLESS STEEL BOLT M6 X 1.00 X 19 mm

HOLE DRILLED AND TAPPED FOR A M6 X 1.00 X 19 mm BOLT FOR GROUNDING PURPOSES (SEE DETAIL)



100 mm I.D. PIPE
112 mm O.D. PIPE
(TRAFFIC SIGNAL STANDARD)

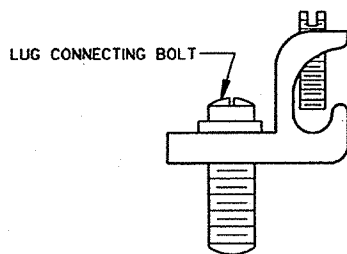


**ISOMETRIC VIEW
PEDESTAL BASE**

HEX HEAD STAINLESS STEEL BOLT & WASHER M6 X 1.00 X 19 mm

12 mm INDENTED LETTER TO INDICATE METRIC THREADING

ACCESS OPENING NOMINAL 200 mm X 200 mm

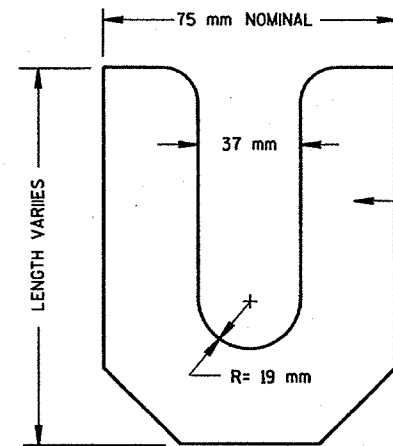


**TYPICAL MECHANICAL
CONNECTOR LUG**

TO BE FURNISHED WITH EACH BASE

TRANSFORMER BASE

INTENDED FOR USE WITH TYPE 2, 3, 4, 5 & 6 POLES



LEVELING SHIM

15 mm OR 3 mm THICK AS NEEDED

TRANSFORMER/PEDESTAL BASES

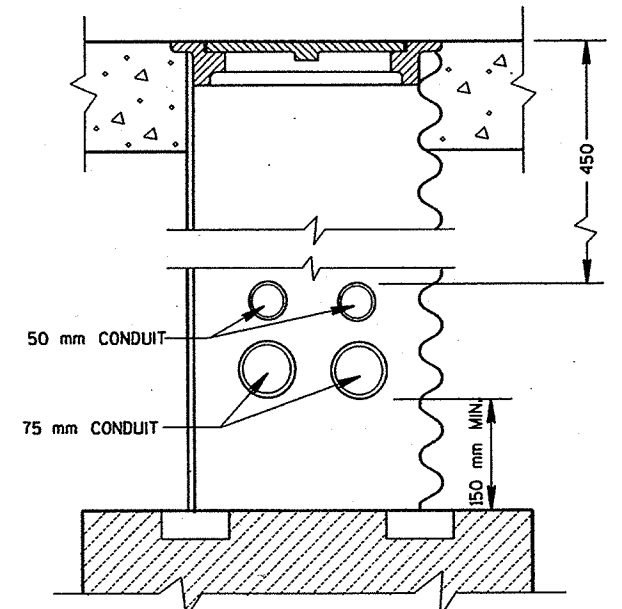
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
DATE 10/21/96
STATE ELECTRICAL ENGINEER FOR HIGHWAYS

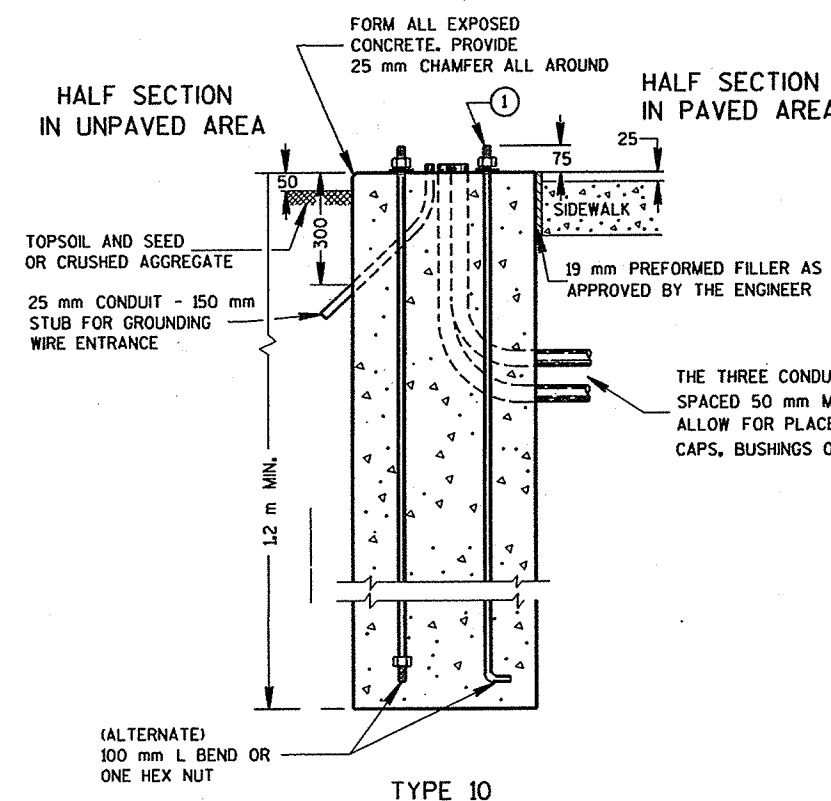
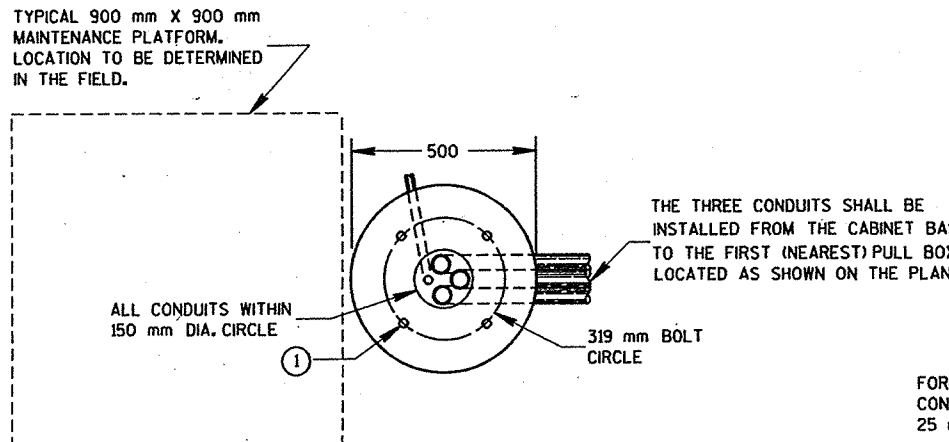


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| CONTROL CABINET BASE TYPE | DIMENSIONS mm | | | m ³ CONCRETE (APPROX.) |
|------------------------------|---------------|------|-----|--------------------------------------|
| | H | I | J | |
| TYPE 6 - 750 mm CABINET | 850 | 1500 | 250 | .49 |
| TYPE 7 - 950 mm CABINET | 1050 | 1500 | 250 | .71 |
| TYPE 8 - 950 mm CABINET | 1050 | 1800 | 300 | .99 |
| TYPE 9 - VARIABLE | 1350 | 1800 | 350 | 1.19 |
| TYPE 10 - POST MOUNT | AS SHOWN | | | .24 |

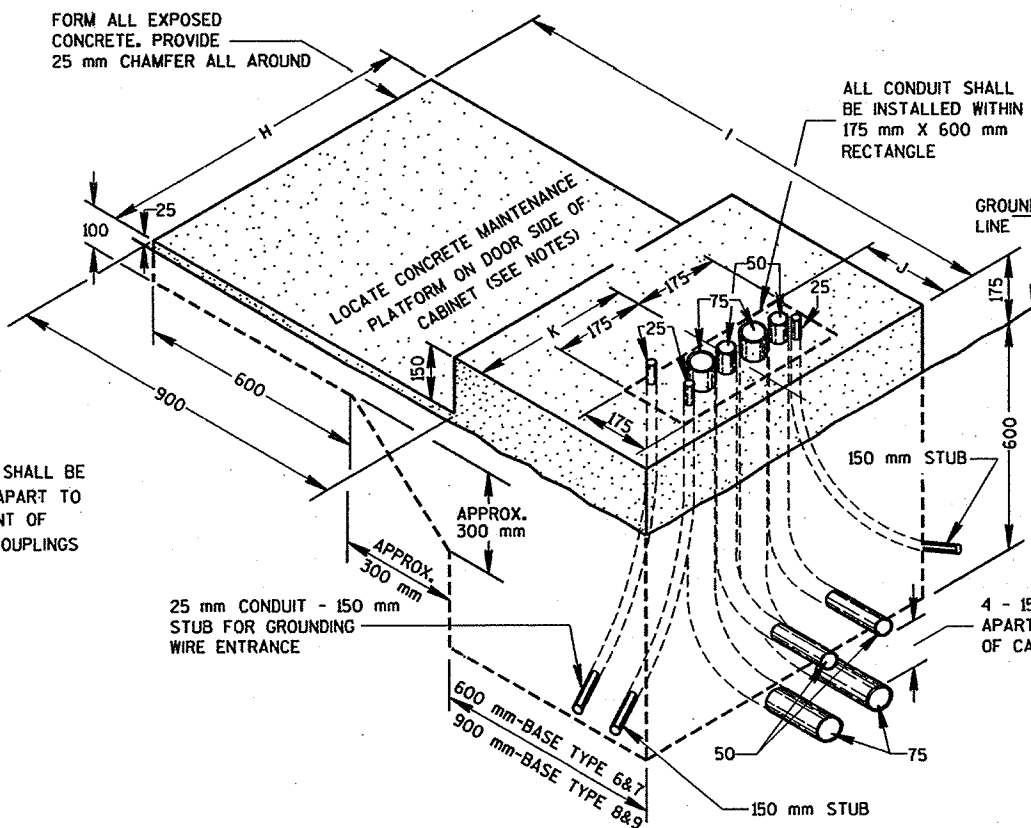


CONDUIT LOCATIONS IN 600 mm X 900 mm PULL BOX
(LEADING TO CONTROLLER CABINET BASE TYPE 6, 7, 8 AND 9)



THE THREE CONDUITS SHALL BE SPACED 50 mm MIN. APART TO ALLOW FOR PLACEMENT OF CAPS, BUSHINGS OR COUPLINGS

CONCRETE CONTROL CABINET BASES



TYPE 6,7,8 AND 9
(ISOMETRIC VIEW)

GENERAL NOTES

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

METRIC MEASUREMENTS ARE BASED ON 25 mm (NOMINAL) PER INCH.

INSTALL FOUR 12 mm MINIMUM DIAMETER X 100 mm MINIMUM LENGTH APPROVED CONCRETE MASONRY ANCHORS TO ANCHOR THE CABINET TO TYPE 6, 7, 8, AND 9 BASES. THE ANCHOR RODS SHALL BE LOCATED AS DIRECTED BY THE ENGINEER TO PROPERLY ANCHOR THE CONTROL CABINET TO THE BASE.

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

CONDUIT HEIGHT ABOVE THE CONCRETE BASE SHALL BE 25 mm.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 600 mm MINIMUM AND 900 mm MAXIMUM.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 450 mm MINIMUM AND 900 mm MAXIMUM.

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

CONTROL CABINET BASE TOP SURFACES SHALL BE TROWEL FINISHED AND LEVEL.

WHEN A TYPE 10 CONTROL CABINET BASE IS USED TO POST MOUNT A CONTROL CABINET, A 900 mm SQUARE 100 mm THICK CONCRETE MAINTENANCE PLATFORM SHALL BE REQUIRED ON THE DOOR SIDE OF THE CABINET. THE TOP 25 mm SHALL BE ABOVE FINISHED GRADE AND BE BROOM FINISHED AND LEVEL.

MAINTENANCE PLATFORMS ARE NOT REQUIRED WHEN THE SURROUNDING AREA IS PAVED.

MINIMUM BENDING RADIUS OF CONDUIT = 6 X THE DIAMETER.

ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

ALL FOUR (50 mm AND 75 mm) CONDUITS SHALL BE INSTALLED FROM THE CABINET BASE TO THE FIRST (NEAREST) PULL BOX LOCATED AS SHOWN ON THE PLANS.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF THE CONCRETE BASE BEFORE INSTALLATION OF CABLE OR WIRE.

CONCRETE FORM DEPTH BELOW FINISHED GRADE SHALL BE 150 mm MAXIMUM. CONCRETE FORMS SHALL BE REMOVED AFTER CONCRETE HAS SET.

WHEN ANCHOR RODS USING THE ALTERNATE L BEND ARE FURNISHED FOR THE TYPE 10 BASE, THE 100 mm L BEND SHALL BE IN ADDITION TO THE SPECIFIED ANCHOR ROD BAR LENGTH.

THE "L" BEND SHALL NOT BE THREADED.

STRAIGHT ANCHOR RODS SHALL BE THREADED 300 mm IN LENGTH ON EACH END OF THE BOLT.

FOUR (4) ANCHOR RODS, 25 mm DIA. X 1050 mm. ANCHOR RODS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 654.2.1 AND 641.2.2 OF THE STANDARD SPECIFICATIONS AND IN ACCORDANCE WITH A-449, OR ASTM, A-687 (GRADE 105).

NOTE

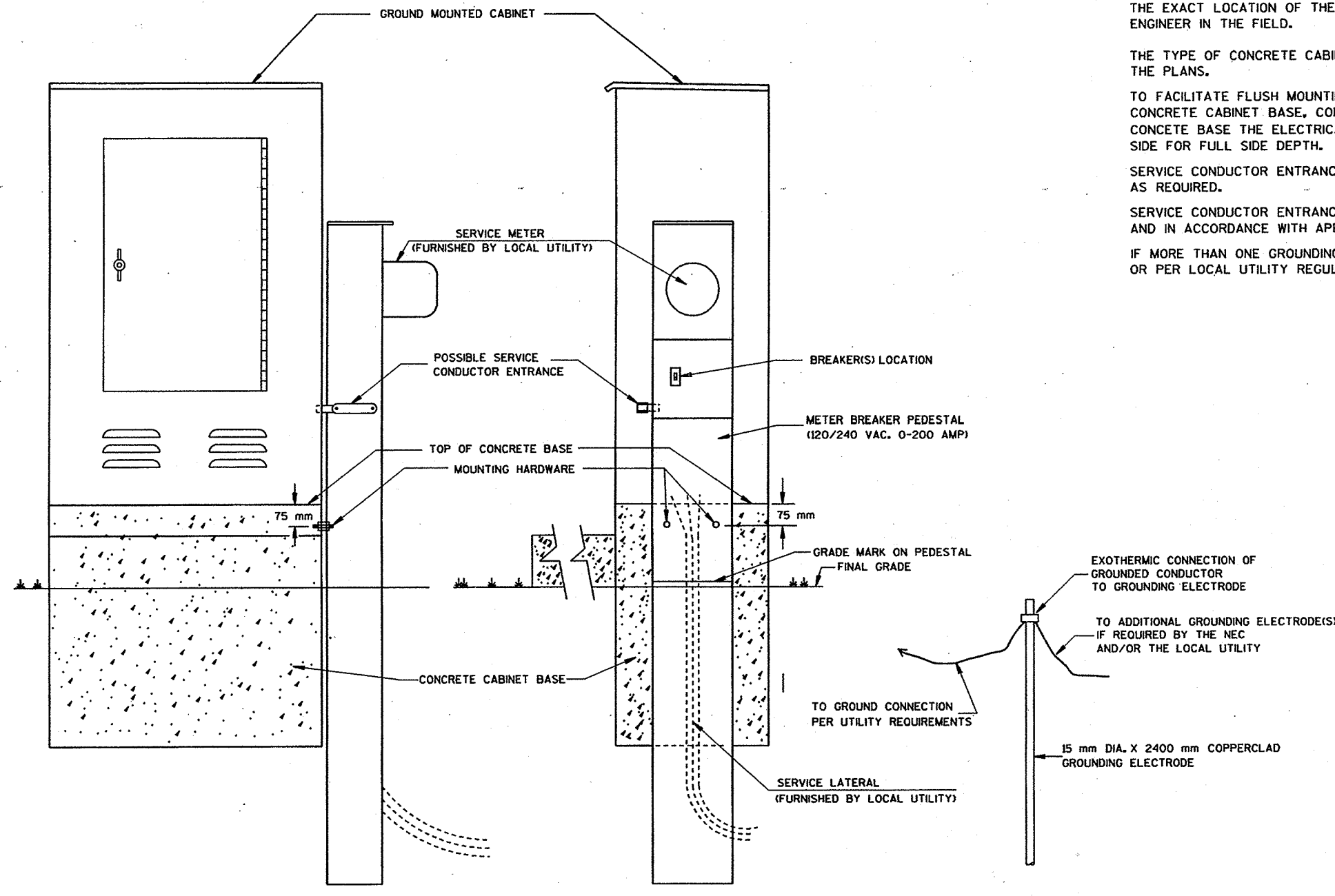
ALL DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.

CONCRETE CONTROL CABINET BASES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
DATE 10/2/96
STATE ELECTRICAL ENGINEER FOR HIGHWAYS

S.D.D. 9 D 1-2
 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



TYPICAL CABINET SERVICE INSTALLATION

GENERAL NOTES

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

METRIC MEASUREMENTS ARE BASED ON 25mm (NOMINAL) PER INCH.

THE EXACT LOCATION OF THE METER BREAKER PEDESTAL SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

THE TYPE OF CONCRETE CABINET BASE TO BE INSTALLED SHALL BE AS CALLED FOR IN THE PLANS.

TO FACILITATE FLUSH MOUNTING OF THE METER BREAKER PEDESTAL AGAINST THE SIDE OF THE CONCRETE CABINET BASE, CONFER WITH THE LOCAL UTILITY TO DETERMINE WHICH SIDE OF THE CONCRETE BASE THE ELECTRICAL SERVICE LATERAL WILL APPROACH, THEN FORM THAT INDICATED SIDE FOR FULL SIDE DEPTH.

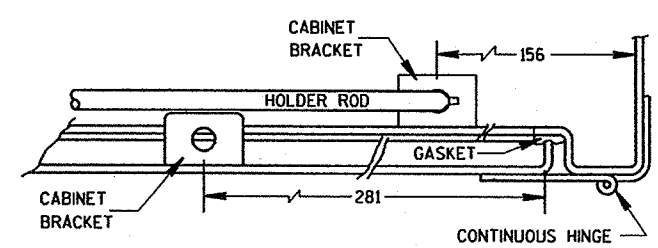
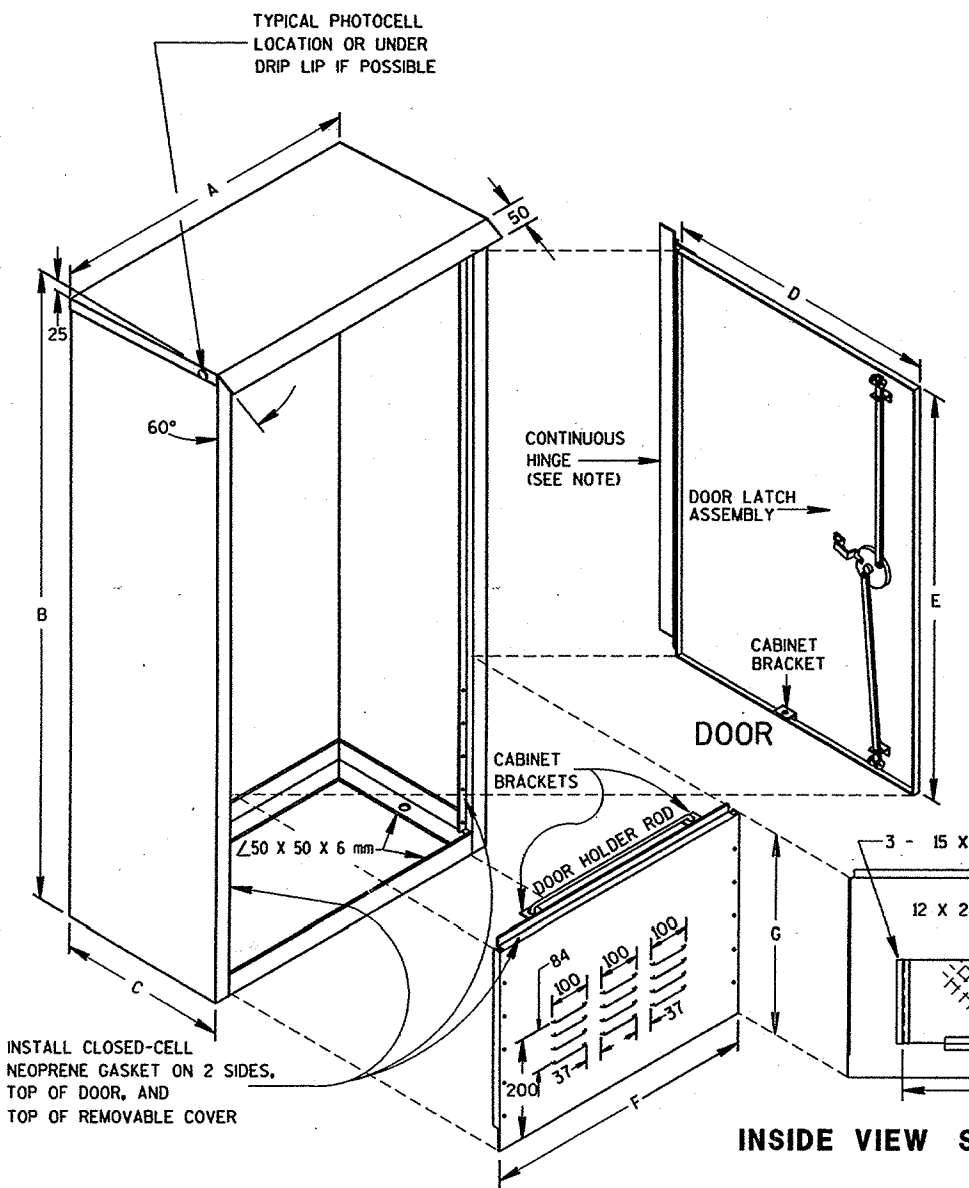
SERVICE CONDUCTOR ENTRANCES SHALL BE RIGID METALLIC CONDUIT, NIPPLES AND/OR CONDULETS AS REQUIRED.

SERVICE CONDUCTOR ENTRANCES SHALL BE SIZED AND LOCATED AS REQUIRED BY THE LOCAL UTILITY AND IN ACCORDANCE WITH APPROPRIATE ARTICLES OF THE LATEST ACCEPTED NATIONAL ELECTRICAL CODE.

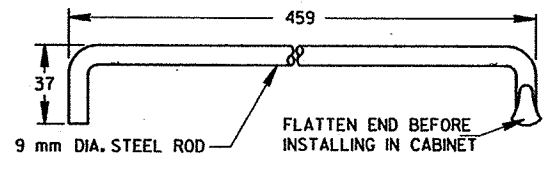
IF MORE THAN ONE GROUNDING ELECTRODE IS REQUIRED, THE DISTANCE APART SHALL BE 1800 mm OR PER LOCAL UTILITY REGULATIONS.

| | |
|--|---|
| CABINET SERVICE INSTALLATION (METER BREAKER PEDESTAL) | |
| STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION | |
| APPROVED <i>10/21/06</i> DATE | STATE ELECTRICAL ENGINEER FOR HIGHWAYS |
| FHWA | |

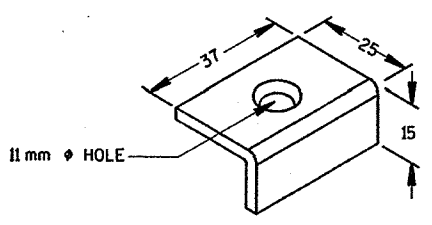
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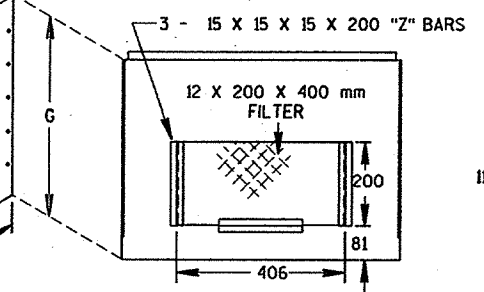
HINGE & DOOR HOLDER



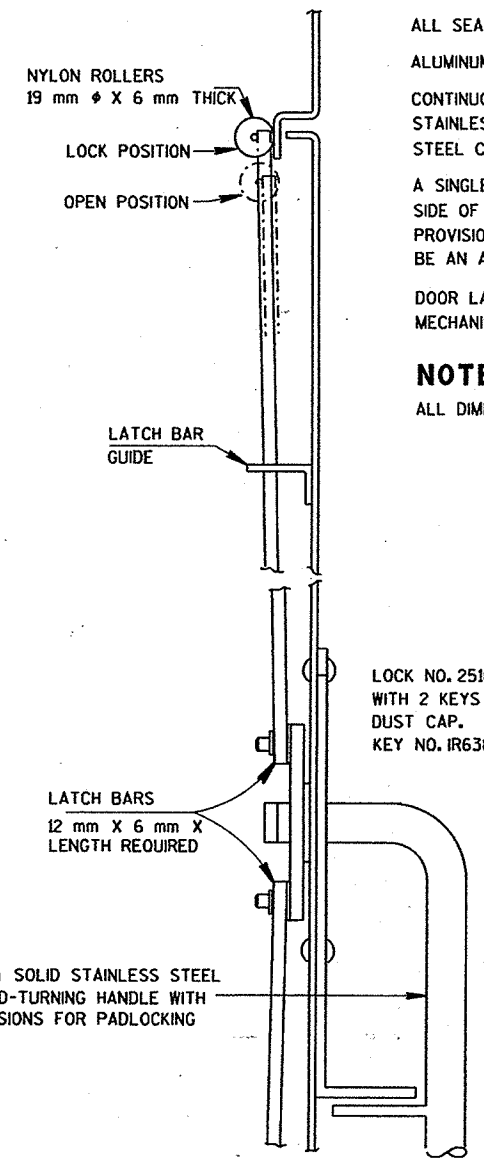
HOLDER ROD



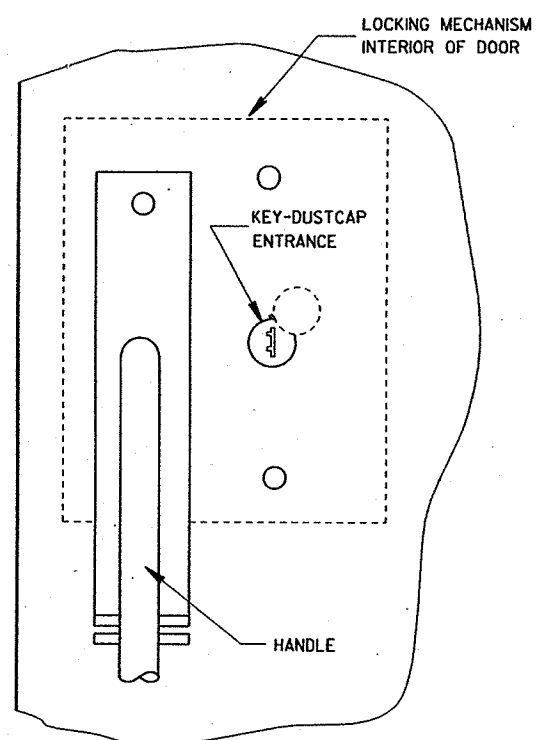
CABINET BRACKET



INSIDE VIEW SHOWING FILTER

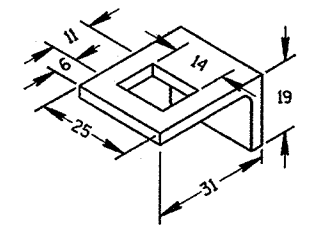


SIDE VIEW



SIDE VIEW

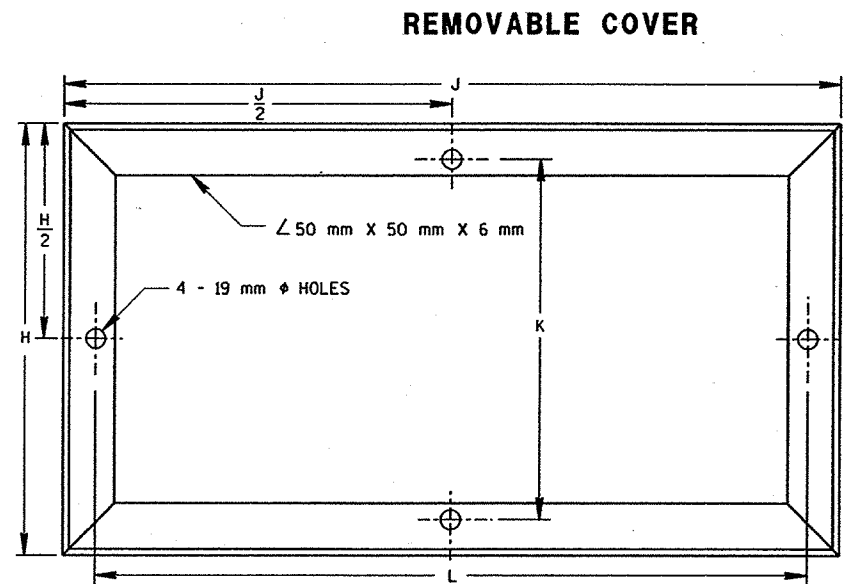
LATCH ASSEMBLY



LATCH BAR GUIDE

TABLE OF DIMENSIONS (mm)

| MARK | CABINET TYPE | | |
|------|--------------|------|------|
| | 3060 | 3860 | 3866 |
| A | 750 | 950 | 950 |
| B | 1500 | 1500 | 1650 |
| C | 412 | 412 | 600 |
| D | 662 | 850 | 825 |
| E | 950 | 950 | 950 |
| F | 662 | 850 | 825 |
| G | 475 | 475 | 625 |
| H | 412 | 412 | 600 |
| H/2 | 206 | 206 | 300 |
| J | 750 | 950 | 950 |
| J/2 | 375 | 475 | 475 |
| K | 344 | 344 | 525 |
| L | 675 | 875 | 875 |



REMOVABLE COVER

MOUNTING BASE

GENERAL NOTES

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

METRIC MEASUREMENTS ARE BASED ON 25 mm (NOMINAL) PER INCH.

PRIME WITH PHOSPHATE TREATMENT AND PRIMER.

FINISH EXTERIOR SURFACES WITH RUSTOLEUM #906 SILVER GRAY OR APPROVED EQUAL.

FINISH INTERIOR WITH RUSTOLEUM #2766 HIGH GLOSS WHITE ENAMEL OR APPROVED EQUAL.

ALL SHEET METAL PARTS SHALL BE 3 mm THICK ALUMINUM.

ALL SEAMS SHALL BE CONTINUOUSLY WELDED.

ALUMINUM SHALL BE TYPE 5052-H32.

CONTINUOUS HINGE SHALL BE HEAVY GAUGE ALUMINUM WITH 6 mm DIAMETER STAINLESS STEEL HINGE PIN. HINGE IS SECURED WITH M6 X 1.00 STAINLESS STEEL CARRIAGE BOLTS AND STAINLESS STEEL NYLOCK NUTS.

A SINGLE PHOTOCELL SHALL BE LOCATED ON THE NORTH-NORTHEAST SIDE OF THE CABINET UNLESS OTHERWISE CALLED FOR IN THE SPECIAL PROVISIONS. THE PHOTOCELL SHALL BE PLACED AS SHOWN AND SHALL BE AN APPROVED TYPE.

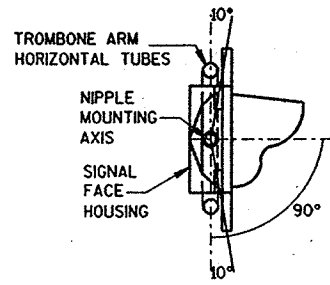
DOOR LATCH ASSEMBLY TO BE PROVIDED WITH THREE-POINT LOCKING MECHANISM.

NOTE:

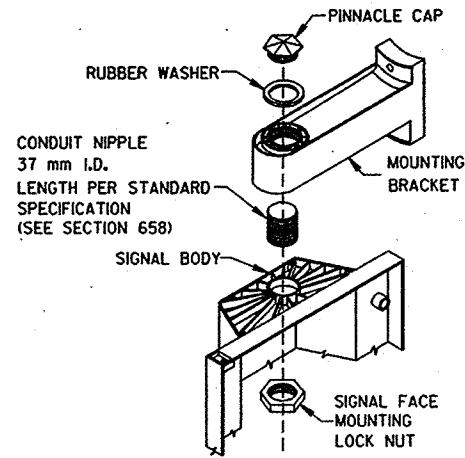
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN.

| | |
|--|---|
| SIGNAL OR LIGHTING CONTROL CABINET | |
| STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION | |
| APPROVED 10/21/66 DATE | <i>Paul J. Studd</i> STATE ELECTRICAL ENGINEER FOR HIGHWAYS |

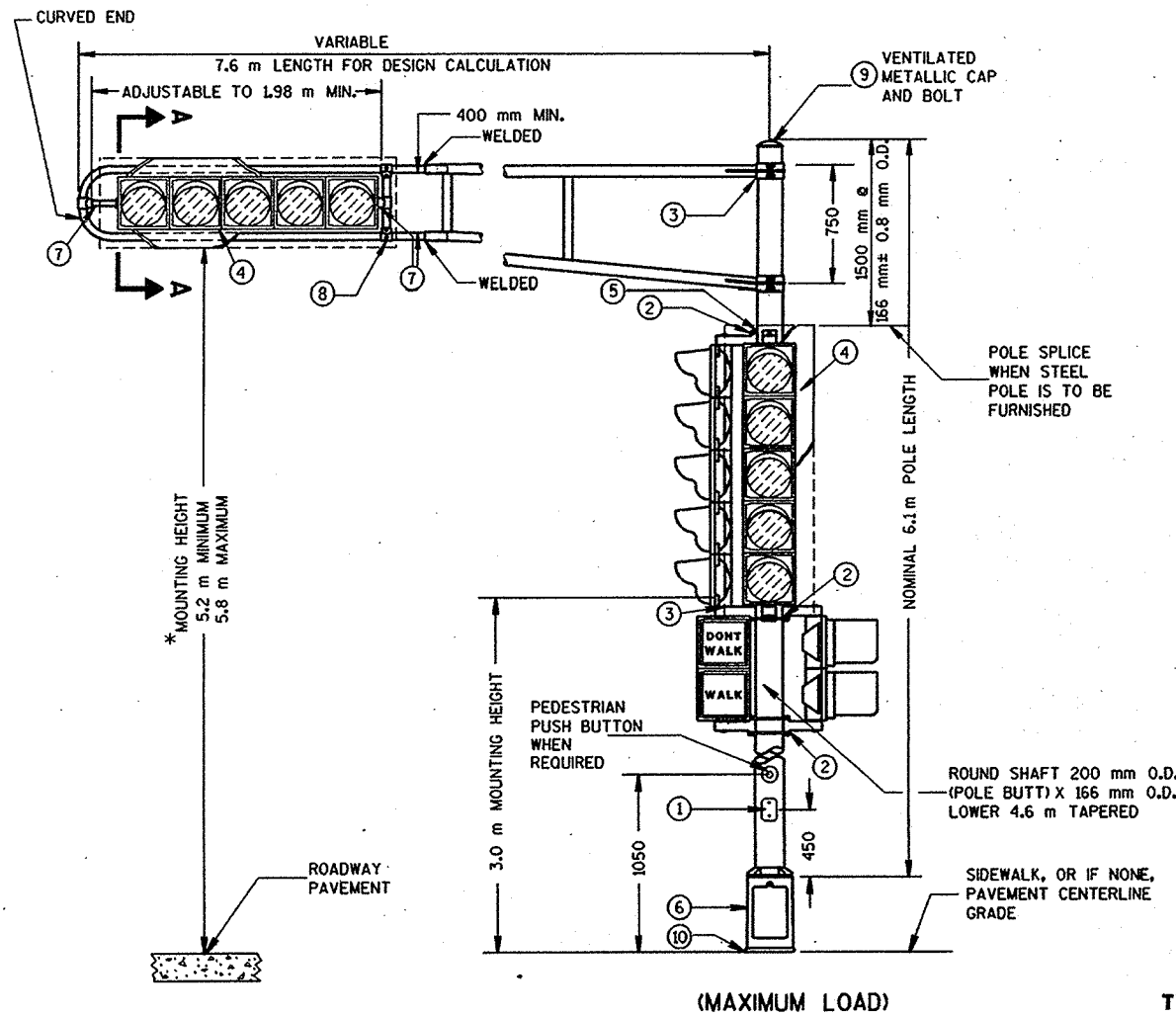
S.D.D. 9 E 1-30
LEVELS ON - 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63



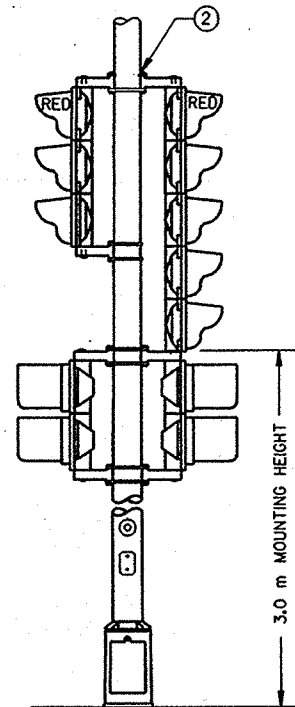
SECTION A-A
(10 DEGREES TILT REQUIREMENT OF FACE(S) IN THE TROMBONE MOUNTING)



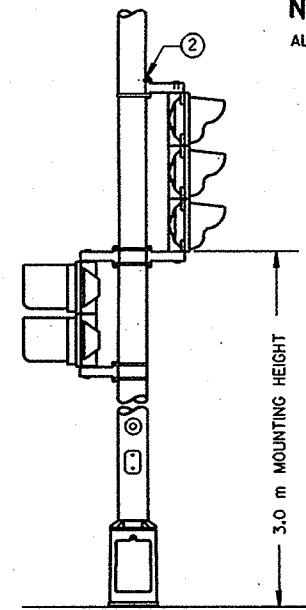
SIGNAL FACE MOUNTING DETAIL (BANDED)



(MAXIMUM LOAD)



TYPICAL MOUNTING OF BACK TO BACK 3 AND 5 SECTION SIGNAL FACES



TYPICAL MOUNTING OF 3 SECTION SIGNAL FACE

TYPE 2 POLE MOUNTING CONFIGURATION

GENERAL NOTES

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

METRIC MEASUREMENTS ARE BASED ON 25 mm (NOMINAL) PER INCH.

POLES SHALL BE EITHER ALUMINUM OR GALVANIZED STEEL AS CALLED FOR IN THE CONTRACT.

SECTION 657, POLES, OF THE STANDARD SPECIFICATIONS SHALL APPLY TO THIS DRAWING.

A PULL WIRE/ROPE IN ACCORDANCE WITH STANDARD SPECIFICATION 652 SHALL BE INSTALLED IN EACH TROMBONE ARM RACEWAY DURING THE MANUFACTURING PROCESS.

TYPE 2 ALUMINUM POLES SHALL BE CONSTRUCTED OF 6063-T6 ALUMINUM ALLOY. SLEEVING INSIDE THE POLE IS NOT ACCEPTABLE.

- ① 100 mm X 150 mm REINFORCED HANDHOLE & COVER ASSEMBLY WITH 2 (TWO) M6 X 1.00 X 19 mm HEX HEAD STAINLESS STEEL BOLTS.
- ② SIGNAL FACE MOUNTING BRACKETS. MOUNT WITH CAP SCREWS AND BANDING. (SEE STANDARD SPECIFICATIONS - SEC. 658)
- ③ GROMMETS, 25 mm CHASE NIPPLES OR 25 mm CLOSE CONDUIT NIPPLES WITH BUSHINGS SHALL BE PROVIDED FOR 34 mm HOLE IN POLE SHAFT FOR WIRING.
- ④ BACKBOARDS ARE REQUIRED AT ALL TIMES ON TROMBONE MAST ARM MOUNTED SIGNAL FACES. VERTICAL MOUNTED SIGNAL FACES WITH BACKBOARDS REQUIRED ARE LOCATED AS SHOWN ON THE PLANS. BACKBOARDS ARE REQUIRED TO SURROUND SIGNAL FACES. BACKBOARDS SHALL EXTEND 125 mm BEYOND EXTREMITIES OF THE SIGNAL FACE.
- ⑤ POLE MOUNTED SIGNAL FACES SHALL REQUIRE 1 OR MORE MOUNTING SPACERS UNDER THE TOP MOUNTING BRACKET(S) AS REQUIRED, TO PLUMB THE SIGNAL FACES.
- ⑥ CAST ALUMINUM TRANSFORMER BASE, WHEN REQUIRED.
- ⑦ MOUNTING BRACKET NIPPLES FOR THE SIGNAL FACE(S) SHALL BE 50 mm IN LENGTH AND 37 mm IN DIAMETER. (SEE STANDARD SPECIFICATION - SECTION 658).
- ⑧ VERTICAL STRUT (ADJUSTABLE). ONE (1) SET SCREW (M6 X 1.00 X 19 mm STAINLESS STEEL, HEX HEAD) INTO EACH ARM MEMBER IF STRUT IS THE SLIDING TYPE.
- ⑨ FURNISH AND INSTALL VENTILATED, CAST, METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) M6 X 1.00 X 19 mm STAINLESS STEEL, HEX HEAD BOLT.
- ⑩ SHIMMING, IF NEEDED, SHALL BE LOCATED BETWEEN THE CONCRETE FOUNDATION AND THE TRANSFORMER BASE.

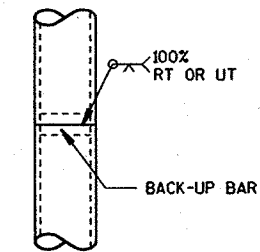
*MOUNTING HEIGHT LIMITATION DIMENSIONS OF THE TROMBONE MAST ARM WILL BE DEPENDENT UPON THE USE/NON-USE OF A TRANSFORMER BASE.

NOTE:

ALL DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS OTHERWISE NOTED.

FOR MANUFACTURERS USE ONLY

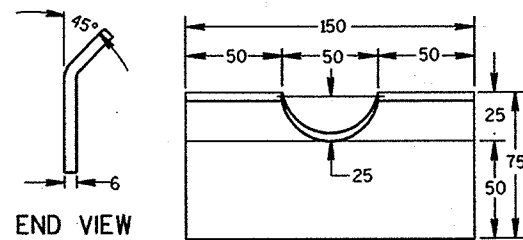
WELD TO BE 100% R.T. OR U.T. TESTED AS PER THE REQUIREMENTS OF AWS D 15-88. RECORDS OF COMPLIANCE OF SUCH TESTING SHALL BE FURNISHED TO THE OFFICE OF DESIGN/BIDGE FOR VERIFICATION AND APPROVAL.



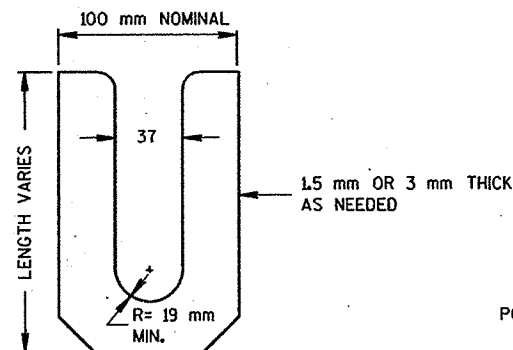
POLE SPLICE DETAIL

POLE MOUNTINGS FOR TRAFFIC SIGNALS TYPE 2

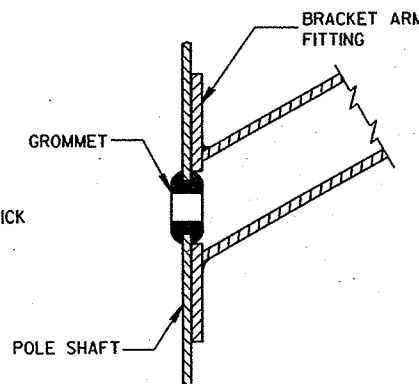
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION



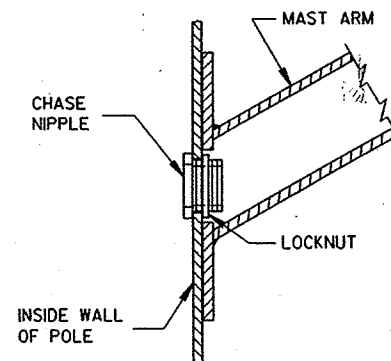
**FRONT VIEW
RECTANGULAR CLAMP SHIM**
(4 TO A SET)



LEVELING SHIM
SHALL BE ALUMINUM



**TYPICAL APPLICATION OF
GROMMET IN POLE SHAFT**



**TYPICAL APPLICATION OF
CHASE NIPPLE IN POLE SHAFT**

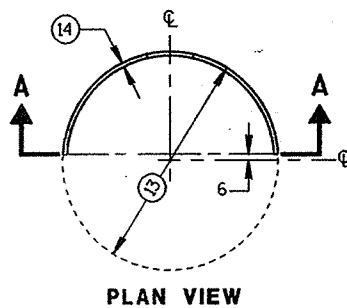
GENERAL NOTES

CLAMP BOLT-NUT TIGHTENING TORQUE SHALL BE INDICATED BY INDENT STAMPING (12 mm NUMERALS AND LETTERS) OR WEATHERPROOF PRINTING ON THE INSIDE OF THE CLAMP THAT IS WELDED TO THE ARM MEMBER.

- (10) 112 mm I.D. FOR LUMINAIRE MAST ARM CLAMP.
165 mm I.D. FOR TROMBONE MAST ARM CLAMP.
- (11) INDIVIDUAL BASE PLATE ANCHOR ROD COVERS. (4 REQUIRED)
- (12) BASE PLATE SLOTTED TO ACCEPT 275 mm THROUGH 300 mm BOLT CIRCLE USING 25 mm DIAMETER ANCHOR RODS.
- (13) OUTSIDE SHIM DIAMETER - (112 mm O.D. FOR LUMINAIRE MAST ARM)
(165 mm O.D. FOR TROMBONE MAST ARM)
- (14) VARIABLE SHIM THICKNESS - (2.5, 6, 9, 13.5, or 18 mm)
SHIM THICKNESS FOR TROMBONE MAST ARMS MAY BE TYPICALLY 6, 9, 13.5 or 18 mm.
SHIM THICKNESS FOR LUMINAIRE MAST ARMS MAY BE TYPICALLY 2.5, 6 or 9 mm.
SHIM MATERIAL SHALL BE ALUMINUM ALLOY.
SHIM THICKNESS SHALL BE IMPRESSED INTO EACH SHIM. NUMERALS SHALL BE 6 mm HIGH AND LEGIBLE.
- THE CONTRACTOR SHALL SUBMIT TWO COPIES OF ALL SHIM SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL.
- (15) LEVELING SHIMS, DESIGNED FOR THE PURPOSE, SHALL BE USED WHEN PLUMBING POLES. THE USE OF WASHERS IN LIEU OF PROPER LEVELING SHIMS IS NOT ACCEPTABLE. LEVELING SHIMS SHALL BE USED ONLY BETWEEN THE TOP OF THE CONCRETE BASE AND A METALLIC BASE PLATE.
SHIMS SHALL BE LONG ENOUGH AND WIDE ENOUGH TO COMPLETELY COVER THE AREA UNDER THE LENGTH AND WIDTH OF THE BASE MOUNTING FLANGE.

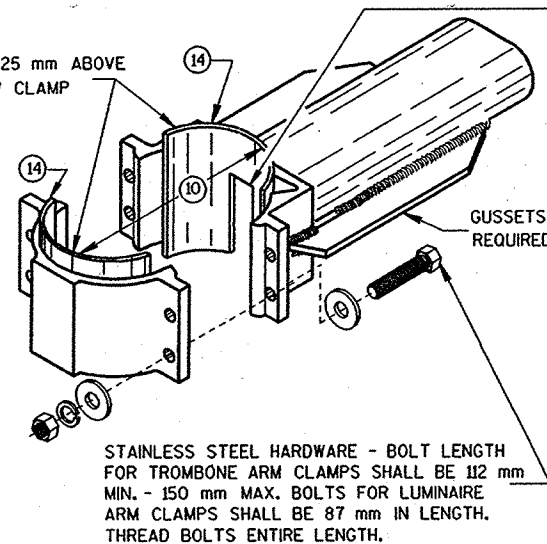
NOTE:

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN.
METRIC MEASUREMENTS ARE BASED ON 25 mm (NOMINAL) PER INCH.



PLAN VIEW

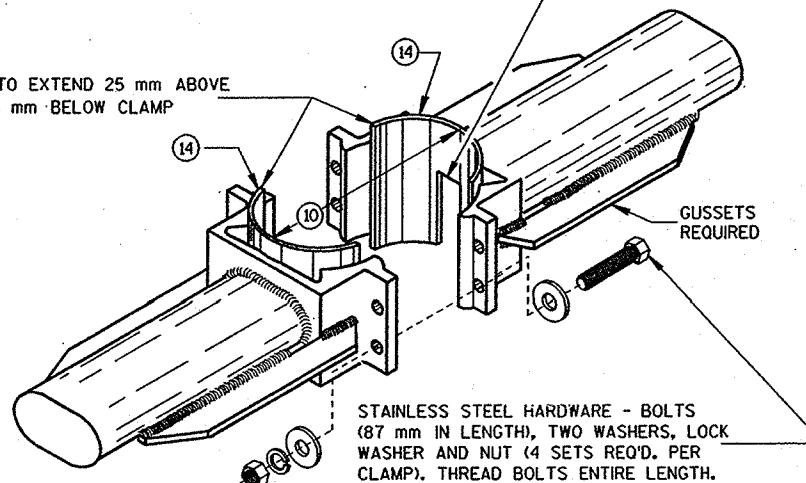
SHIMS TO EXTEND 25 mm ABOVE AND 25 mm BELOW CLAMP



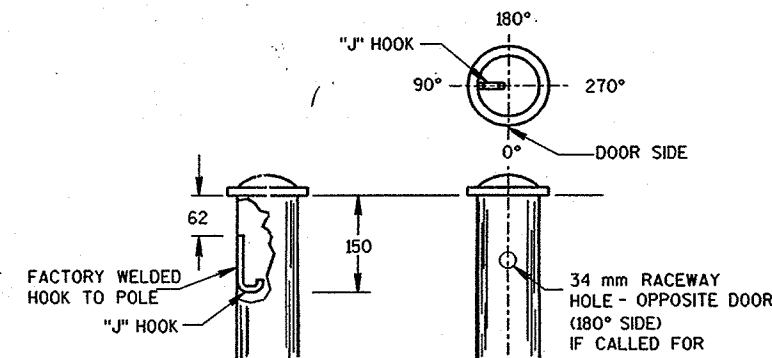
**TYPICAL TROMBONE MAST ARM AND SINGLE
LUMINAIRE MAST ARM MOUNTING CLAMP**

50 mm SLOT IN ALL SHIMS TO MATCH RACEWAY ENTRANCE INTO ARM. ENTRANCE INTO ARM RACEWAY SHALL BE 50 mm MINIMUM.

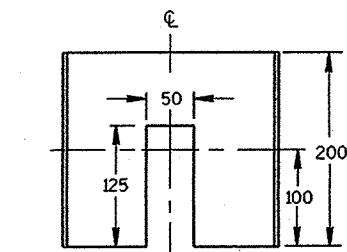
SHIMS TO EXTEND 25 mm ABOVE AND 25 mm BELOW CLAMP



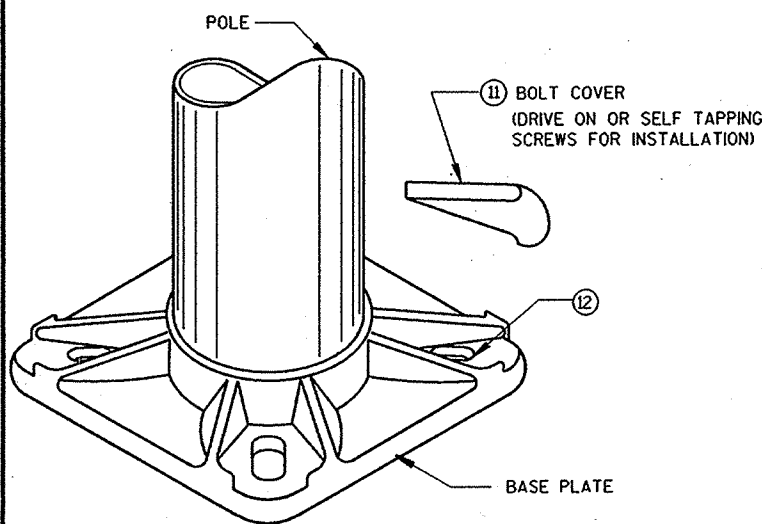
**TYPICAL LUMINAIRE MAST ARM
(DOUBLE) MOUNTING BRACKETS**



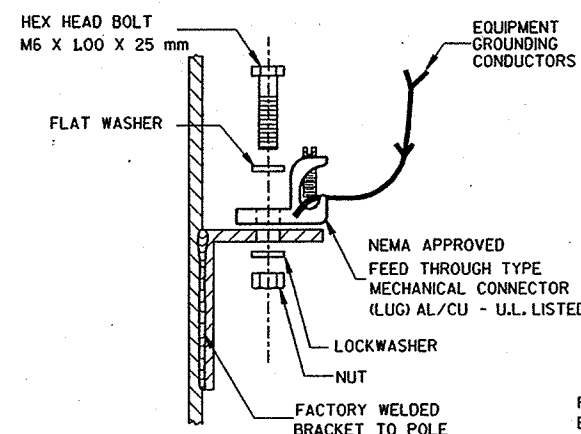
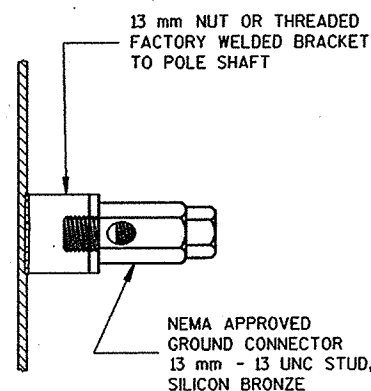
TYPICAL "J" HOOK LOCATION



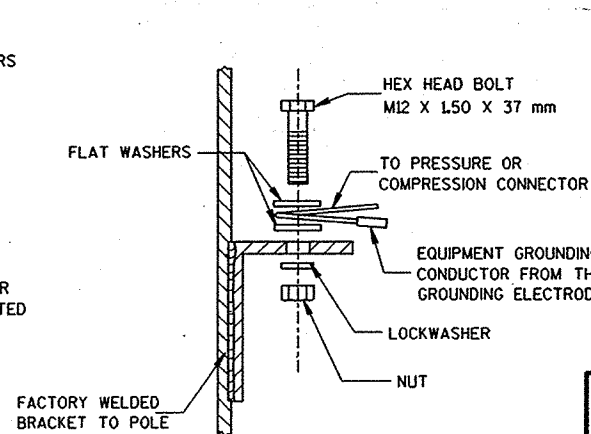
**SECTION A-A
CIRCULAR CLAMP SHIM**
(2 TO A SET)



BASE PLATE



TYPICAL GROUNDING CONNECTIONS
NUT, BOLT AND WASHERS SHALL BE STAINLESS STEEL



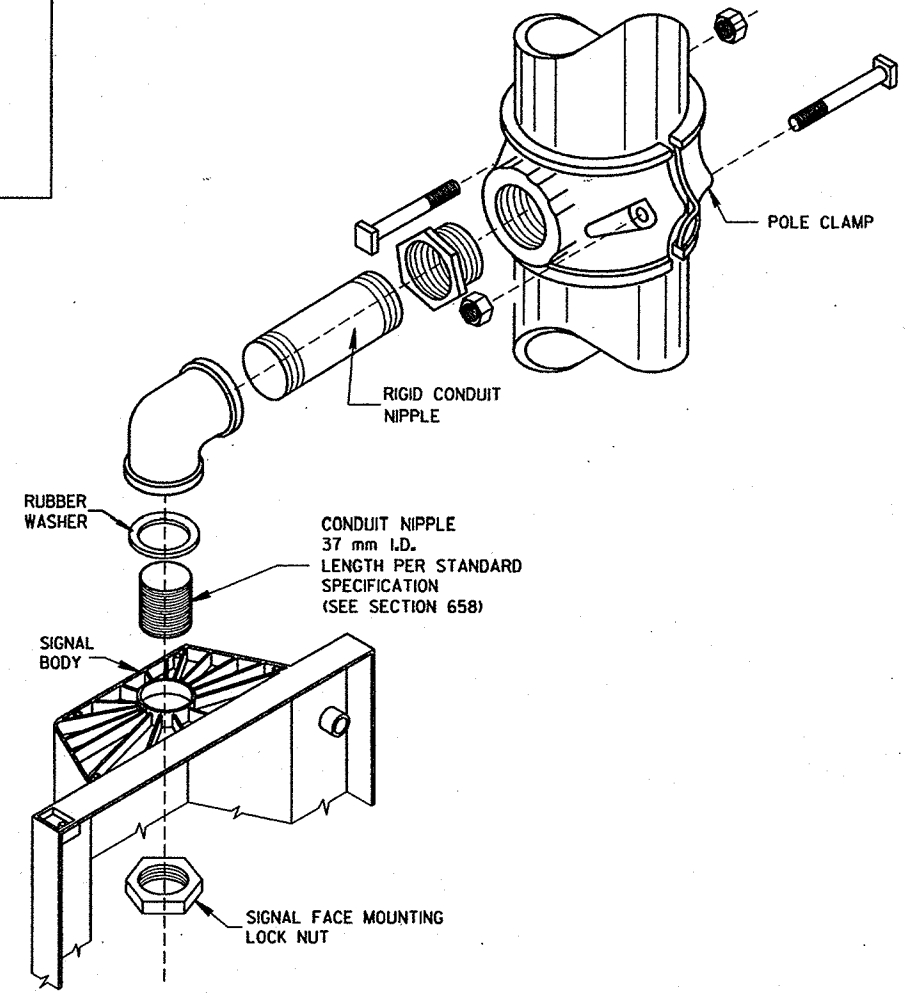
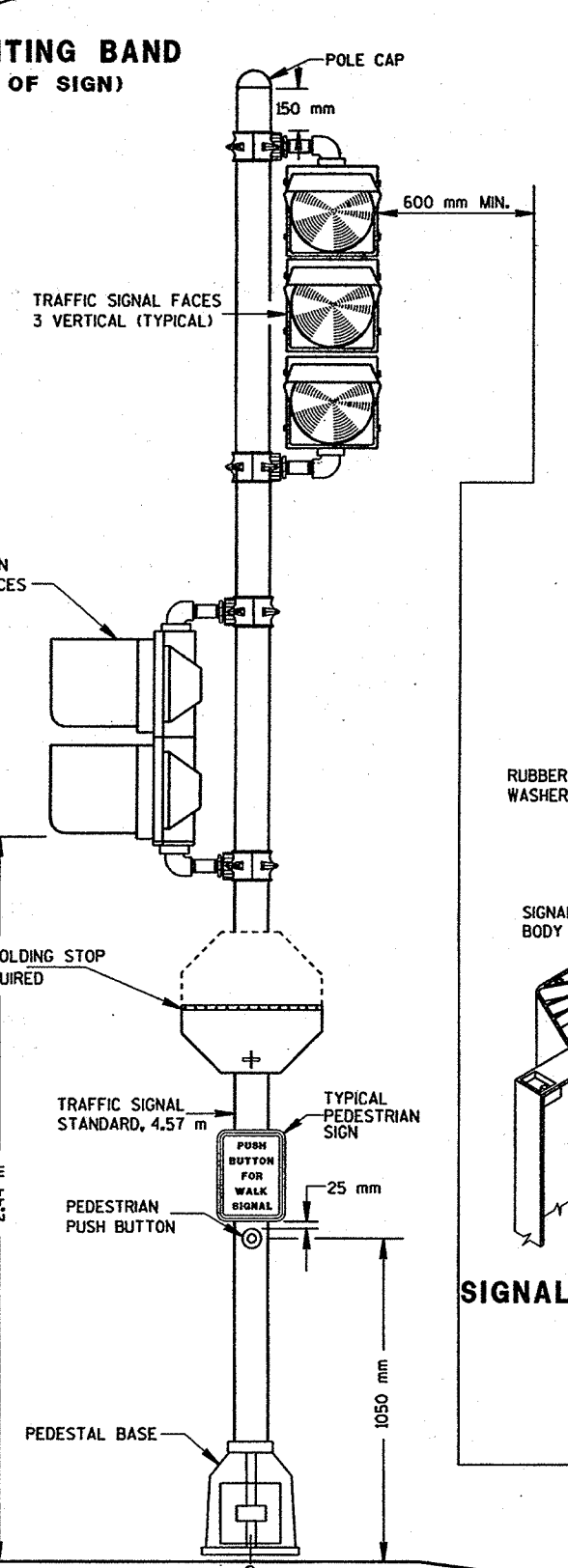
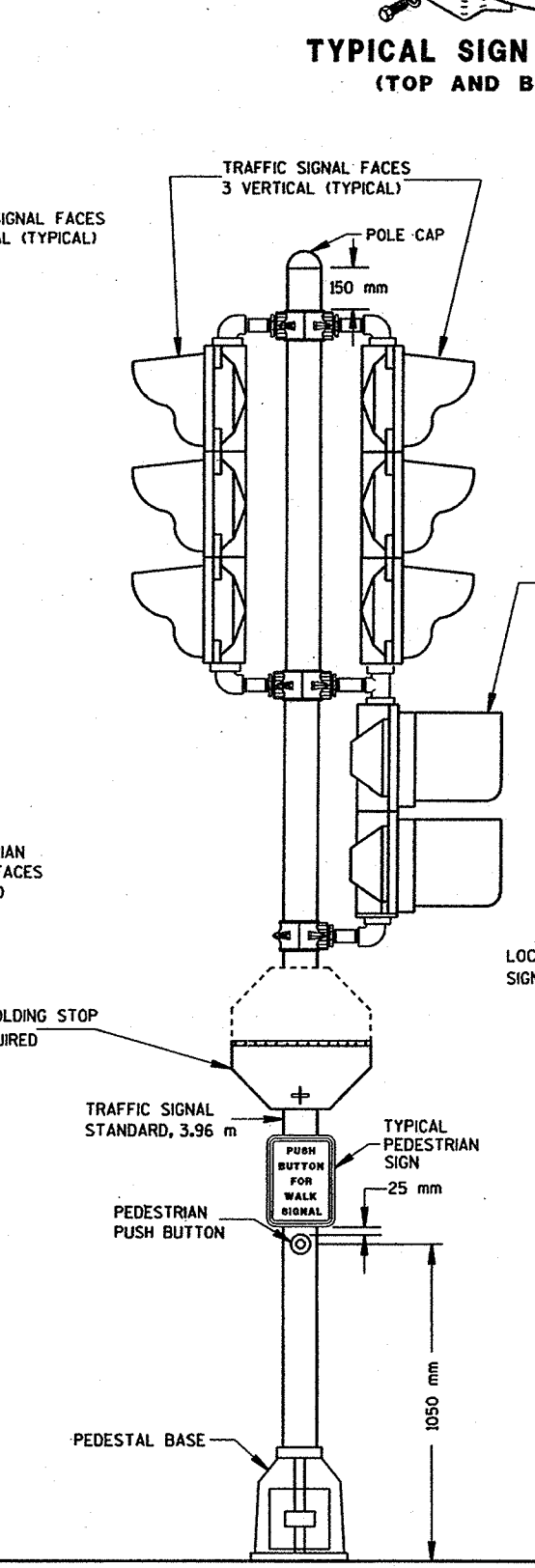
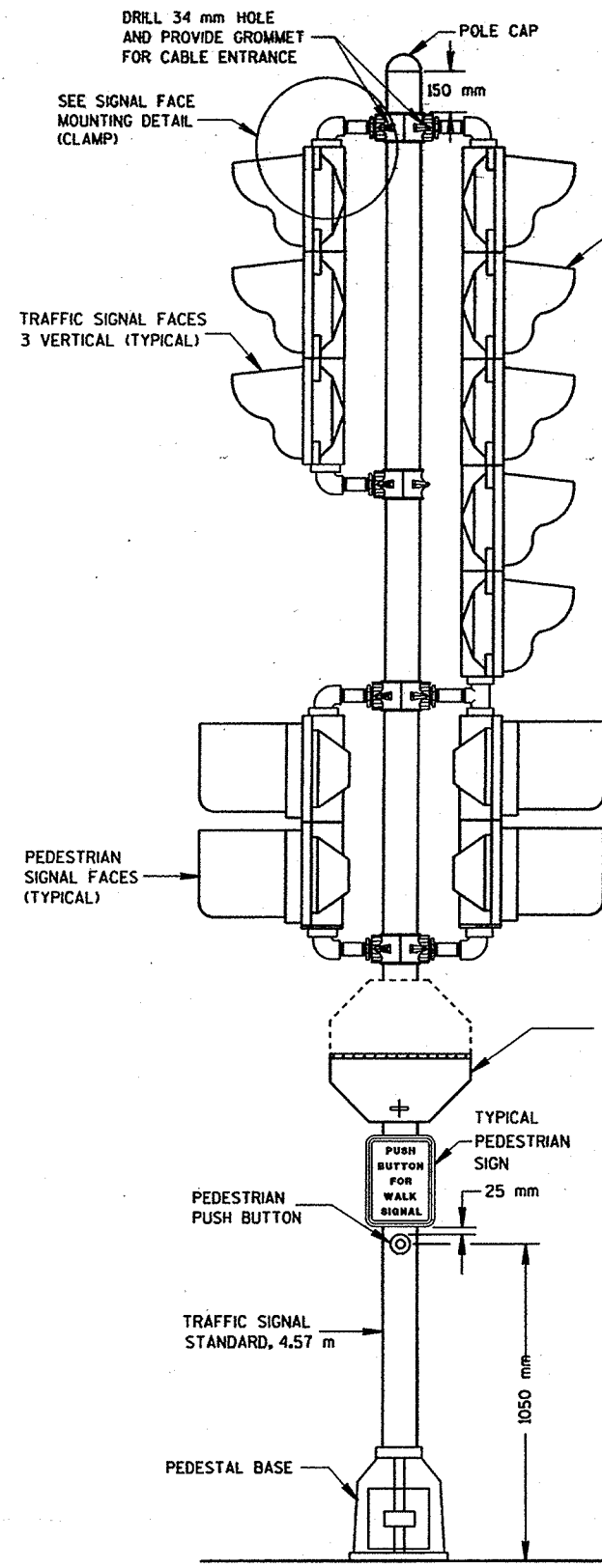
| | |
|--|---|
| HARDWARE DETAILS FOR POLE MOUNTINGS | |
| STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION | |
| APPROVED 2/24/97 DATE | <i>Bob Arndt</i> STATE ELECTRICAL ENGINEER FOR HIGHWAYS |
| FWHA | M |

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. 9 E 1-3f

**TYPICAL SIGN MOUNTING BAND
(TOP AND BOTTOM OF SIGN)**

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.
 METRIC MEASUREMENTS ARE BASED ON 25 mm (NOMINAL) PER INCH.
 SEE THE SIGNAL PLAN FOR REQUIRED SIGNAL FACE SIZES.
 ALL PEDESTAL BASES SHALL BE MOUNTED ON CONCRETE BASE - TYPE 1.
 FOR APPROVED MOUNTING HARDWARE, SEE THE CONTRACT SPECIAL PROVISIONS.
 POLE CLAMP (AS SHOWN) MOUNTING BRACKETS SHALL BE USED.
 LENGTH AND LOCATION OF TRAFFIC SIGNAL STANDARDS SHALL BE AS SHOWN ON THE PLANS.
 OPTICALLY PROGRAMMED SIGNAL FACES SHALL BE MASKED IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS, AND UNDER THE DIRECTIONS OF THE DISTRICT TRAFFIC ENGINEER.
 FOLDING STOP SIGNS SHALL BE IN ACCORDANCE WITH THE MUTCD AND/OR THE LATEST WISCONSIN SUPPLEMENT. THE SIGNS SHALL BE SIZED AND LOCATED AS CALLED FOR IN THE PLANS.
 PEDESTRIAN SIGNS SHALL BE AS DESIGNATED IN THE PLANS.



**SIGNAL FACE MOUNTING DETAIL
(ORNAMENTAL)**

**TRAFFIC SIGNAL STANDARD-4.57 m TRAFFIC SIGNAL STANDARD-3.96 m TRAFFIC SIGNAL STANDARD-4.57 m
3M MOUNTING (TYPICAL)**

| | |
|---|---|
| TRAFFIC SIGNAL STANDARD ORNAMENTAL BRACKET MOUNTINGS TYPICAL FOR 3.96 m OR 4.57 m | |
| STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION | |
| APPROVED <i>[Signature]</i> DATE | STATE ELECTRICAL ENGINEER FOR HIGHWAYS |

S.D.D. 9 E 5-1
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. 9 F 9-2
 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

GENERAL NOTES

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

METRIC MEASUREMENTS ARE BASED ON 25 mm (NOMINAL) PER INCH.

LOOP SIZE, LOCATION, NUMBER OF TURNS OF WIRE AND ASSOCIATED SIGNAL PHASE SHALL BE AS SHOWN ON THE PLANS.

PITCH LEAD OUT CONDUIT TO DRAIN TO ROADSIDE PULL BOX.

SPLICES SHALL BE INSTALLED BY USING CAST IN PLACE SPLICE KITS SUCH AS 3M TYPE 82A1 OR APPROVED EQUAL. NON-INSULATED BUTT SPLICES TO FIT #12 AWG STRANDED WIRE SHALL BE USED. SPLICES SHALL BE SOLDERED AND INSULATED FROM EACH OTHER AS PER INSTRUCTIONS INCLUDED IN THE SPLICE KIT.

THE GROUND RESISTANCE READING OF THE LOOP SHALL READ "INFINITY" TO GROUND ON AN OHMMETER USING A MULTIPLIER SCALE OF 1 MEGOHM AND AN INPUT RESISTANCE OF 11 MEGOHMS MINIMUM BEFORE SPLICING THE LOOP TO THE LEAD-IN CABLE.

AFTER SPLICING THE LOOP WIRE TO THE LOOP LEAD-IN CABLE, THE CONTRACTOR SHALL MEASURE INDUCTANCE, GROUND RESISTANCE AND WIRE RESISTANCE AT THE CABINET END OF THE LEAD-IN CABLE AND FURNISH A COPY OF THE READINGS TO THE PROJECT ENGINEER FOR EVALUATION.

ANTI-SIEZE LUBRICATING MATERIAL SHALL BE USED ON ALL THREADS OF THREADED ASSEMBLIES BEFORE INSTALLATION.

LOOP DETECTOR LEADS SHALL BE IDENTIFIED WITH THEIR ASSOCIATED LOOP BY USE OF WATERPROOF TAGS AT BOTH ENDS OF THE CABLE. A LISTING OF THE CABLE IDENTIFICATION PER INDIVIDUAL LOOP LEAD-IN SHALL BE PLACED IN THE CABINET.

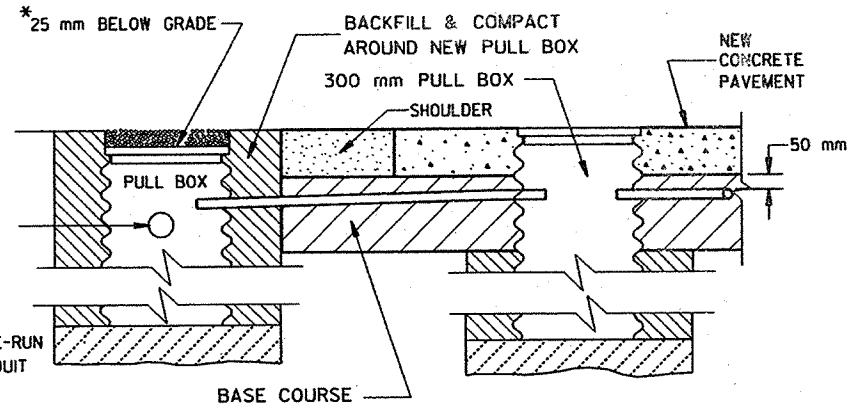
THE #12 AWG LOOP WIRE FROM THE LOOP TO THE ROADSIDE PULL BOX, SHALL BE HAND TWISTED AT LEAST 3 TWISTS PER 300 mm BEFORE INSTALLATION.

SPLICES OF LOOP WIRE TO LEAD-IN CABLE SHALL BE MADE ONLY IN PULL BOXES AT THE SIDE OF THE ROAD.

THE #12 AWG LOOP WIRE SHALL BE INSTALLED FROM THE ROADSIDE PULL BOX, THROUGH THE LOOP DUCT, BACK TO THE ROADSIDE PULL BOX, AND BE INSTALLED IN ONE, NON-SPLICED, CONTINUOUS LENGTH.

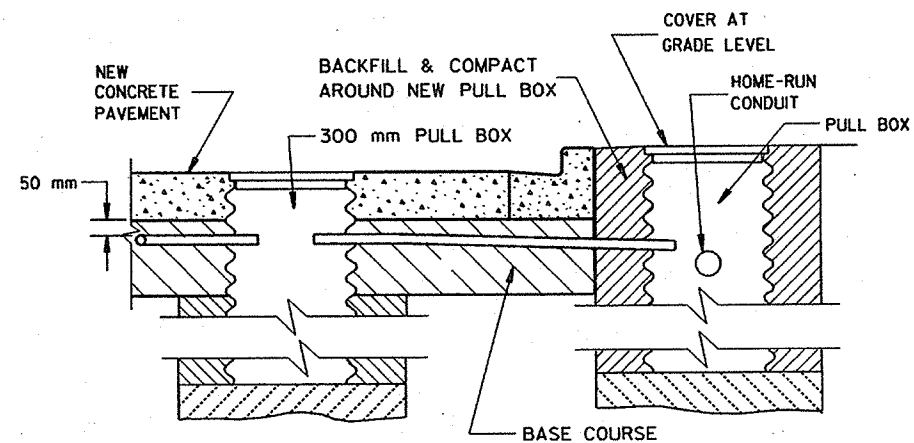
PROTECTION OF THE CONDUIT, CONDULET AND PULL BOX SHALL BE REQUIRED AFTER INSTALLATION AND BEFORE THE NEW CONCRETE PAVEMENT IS PLACED.

300 mm PULL BOXES IN PAVEMENT SHALL BE CORRUGATED STEEL ONLY.

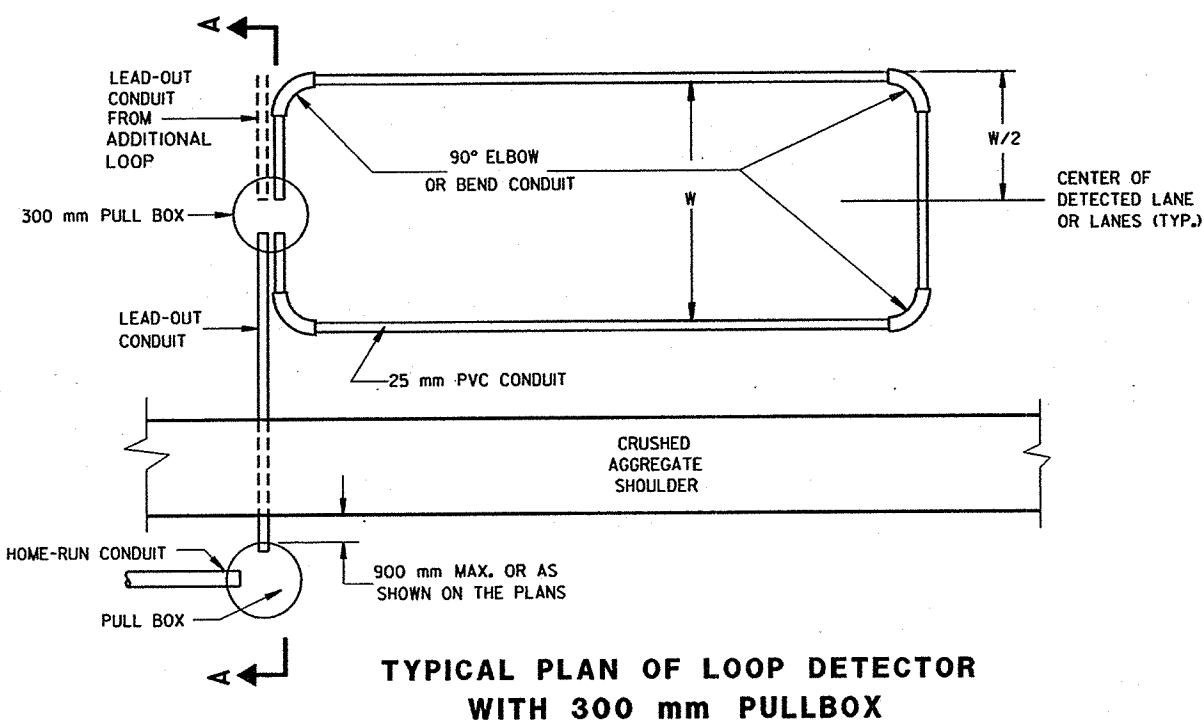


**SECTION A-A
NO CURB & GUTTER
LOOP DETECTOR INSTALLATION DETAILS**

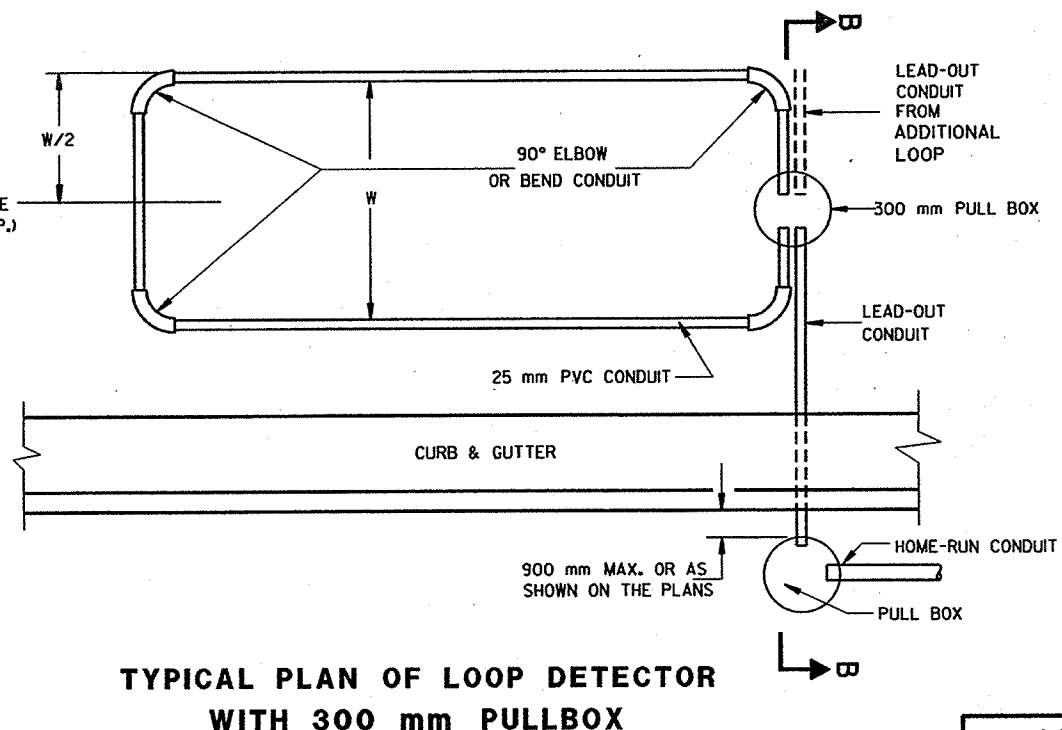
*RECESS PULL BOX SO THAT THE COVER IS 75 mm BELOW GRADE IN SHOULDER AREAS OF CRUSHED AGGREGATE. BACKFILL OVER COVER WITH THE CRUSHED AGGREGATE TO BRING THE AREA TO GRADE LEVEL.



**SECTION A-A
CURB & GUTTER
LOOP DETECTOR INSTALLATION DETAILS**



**TYPICAL PLAN OF LOOP DETECTOR
WITH 300 mm PULLBOX**



**TYPICAL PLAN OF LOOP DETECTOR
WITH 300 mm PULLBOX**

| | |
|--|--|
| LOOP DETECTOR PLACED IN CRUSHED AGGREGATE BASE (NEW CONCRETE PAVEMENT) | |
| STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION | |
| APPROVED 10/21/96 DATE | <i>Bala Arora</i> STATE ELECTRICAL ENGINEER FOR HIGHWAYS |
| FHWA | M |

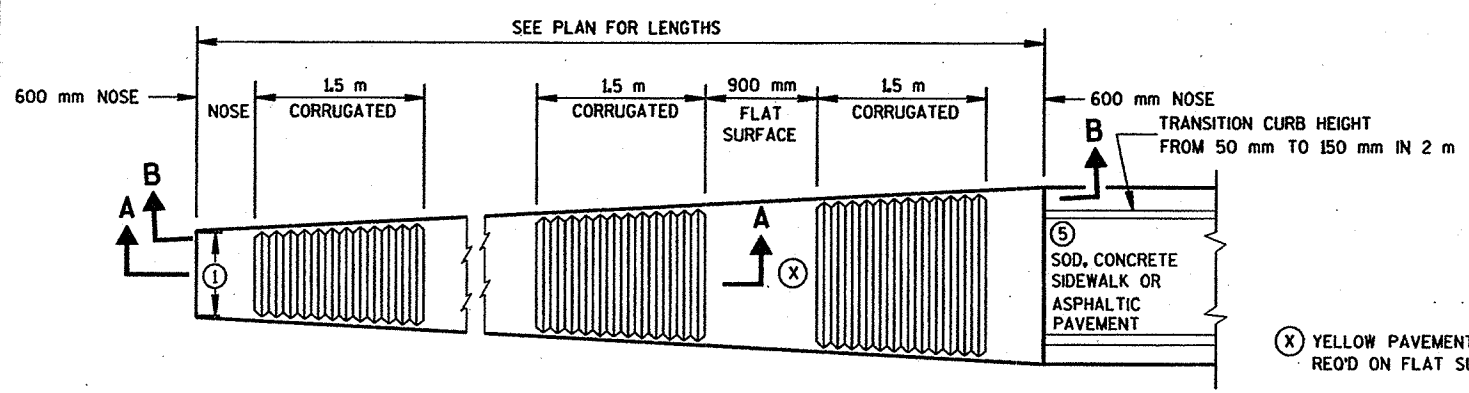
PLOT SCALE:

PLOT NAME:

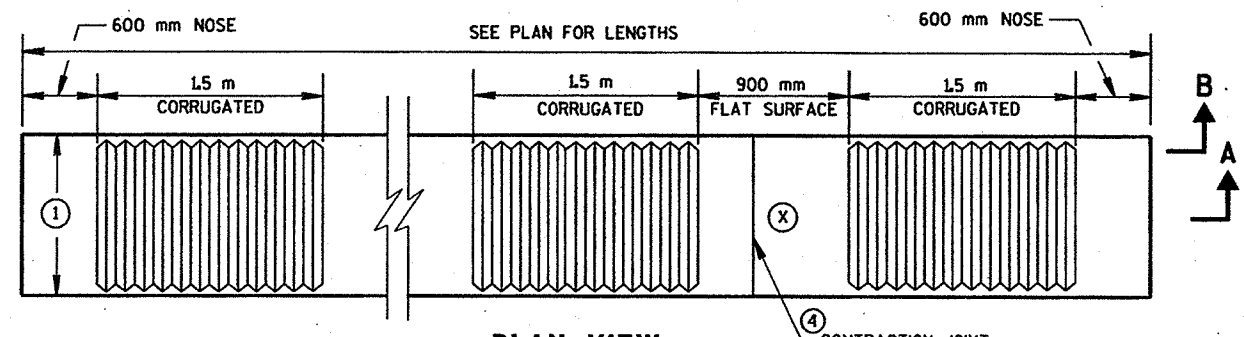
REV. DATE:

ORIGINATOR:

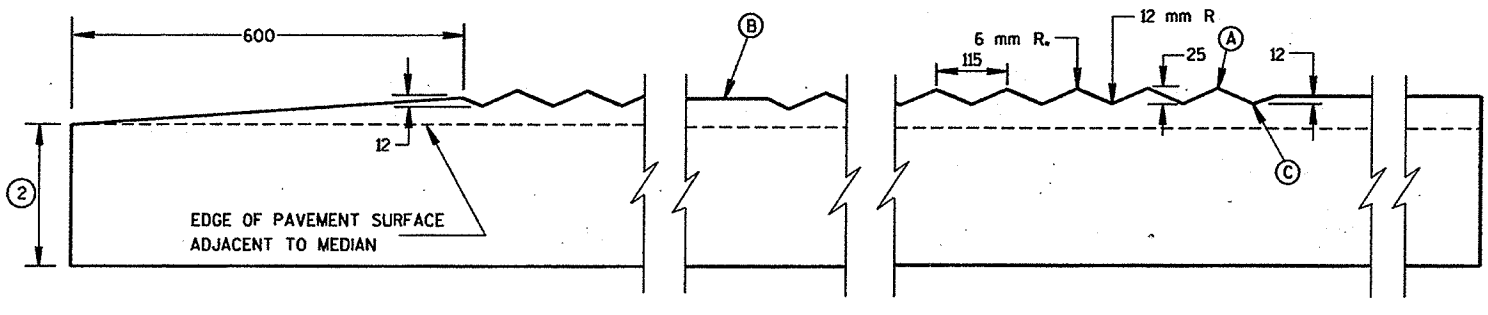
S.D.D. 11 B 1-1
LEVELS ON • 2.3, 4, 5.6, 7.8, 9.10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63



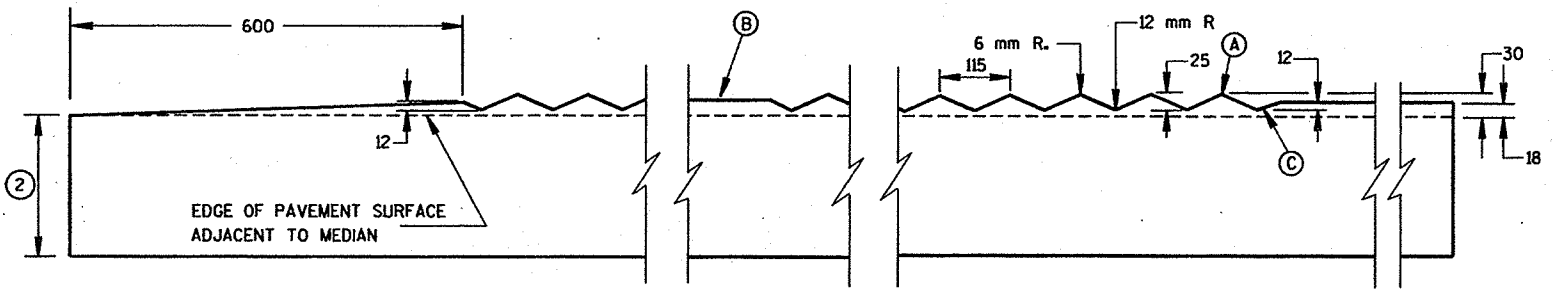
PLAN VIEW
VARIABLE WIDTH CONCRETE CORRUGATED MEDIAN



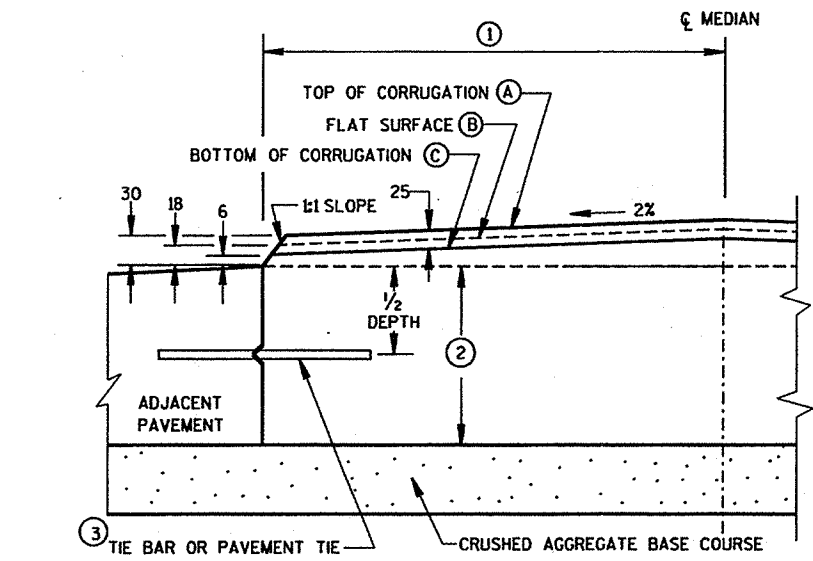
PLAN VIEW
UNIFORM WIDTH CONCRETE CORRUGATED MEDIAN



SECTION A-A
LONGITUDINAL SECTION



SECTION B-B
LONGITUDINAL SECTION



HALF CROSS SECTION
CONCRETE CORRUGATED MEDIAN AND ADJACENT PAVEMENT

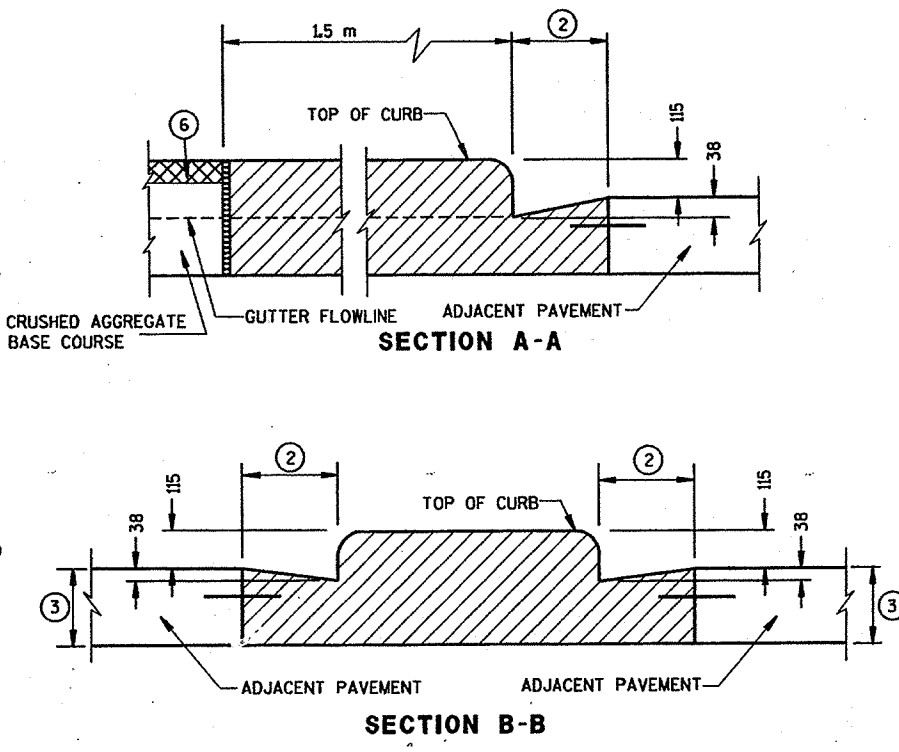
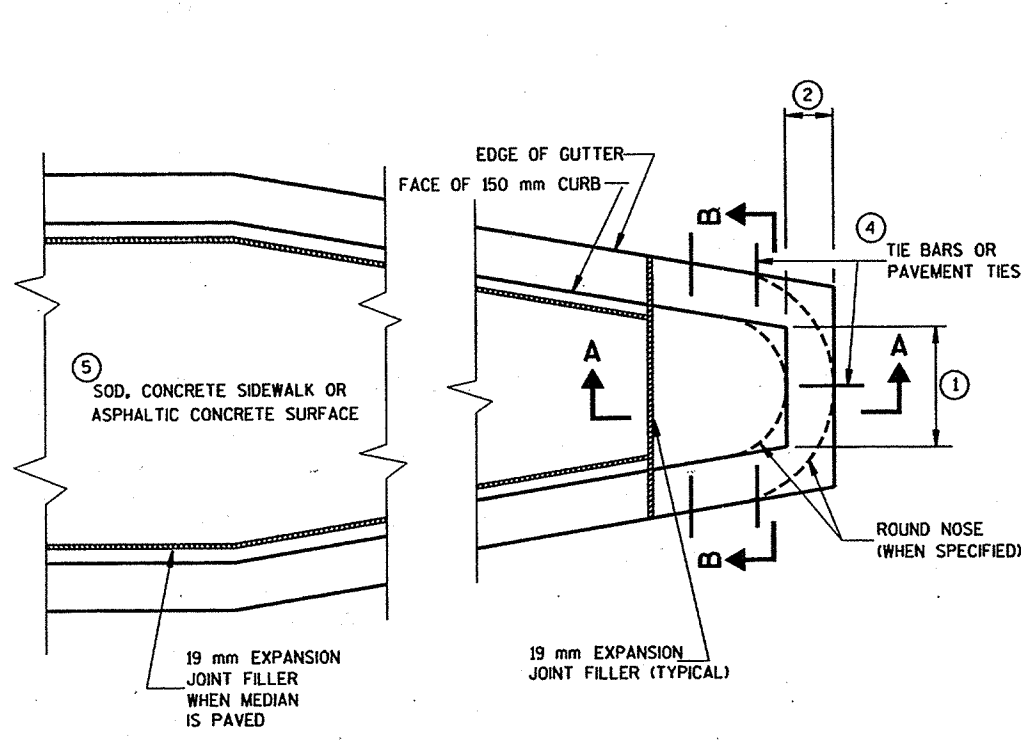
GENERAL NOTES

- 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.
- SEE PLANS FOR CONSTANT OR VARIABLE WIDTH.
 - THE DEPTH OF THE CONCRETE MEDIAN SHALL EQUAL THE DEPTH OF THE ADJACENT PAVEMENT STRUCTURE. ADJACENT PAVEMENT STRUCTURE DETAILS ARE SHOWN IN THE PLAN. TYPICAL OPTIONS ARE:
 - NEW OR EXISTING CONCRETE PAVEMENT.
 - ASPHALTIC CONCRETE OVER NEW OR EXISTING CONCRETE BASE COURSE.
 - ASPHALTIC PAVEMENT OVER CRUSHED AGGREGATE BASE COURSE.
 - TIE BARS OR PAVEMENT TIES REQUIRED IN NEW CONCRETE PAVEMENT OR CONCRETE BASE COURSE. TIE BARS SHALL BE NO. 13 X 600 mm SPACED AT 600 mm C-C. PAVEMENT TIES REQUIRED IN EXISTING CONCRETE PAVEMENT OR CONCRETE BASE COURSE, PAVEMENT TIES SHALL BE NO. 19 X 300 mm SPACED AT 900 mm C-C INSTALLED ON A HORIZONTAL SKEW OF 6:1 THE DIRECTION OF SKEW SHALL ALTERNATE AFTER EVERY ONE OR TWO BARS.
 - CONCRETE PAVEMENT TRANSVERSE CONTRACTION JOINTS SHALL BE CONSTRUCTED TO MATCH THE JOINTS IN ADJACENT CONCRETE PAVEMENT. WHERE ADJACENT PAVEMENT IS ASPHALT WITH CRUSHED AGGREGATE BASE, TRANSVERSE CONTRACTION JOINTS SHALL BE PROVIDED AT 6 m INTERVALS.
 - SURFACE TYPE AND DETAILS ARE DEFINED ELSEWHERE IN THE PLAN.

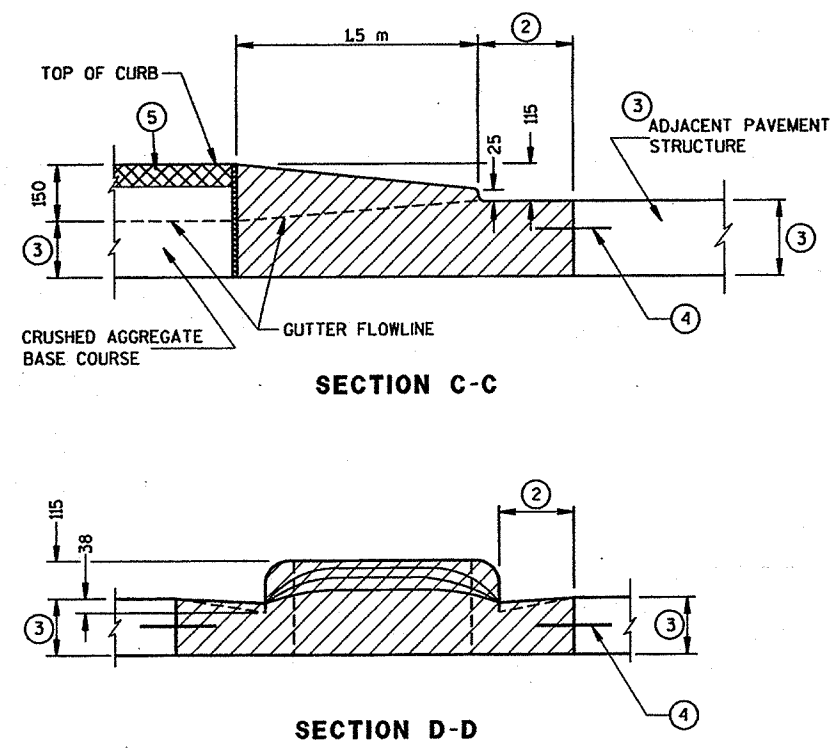
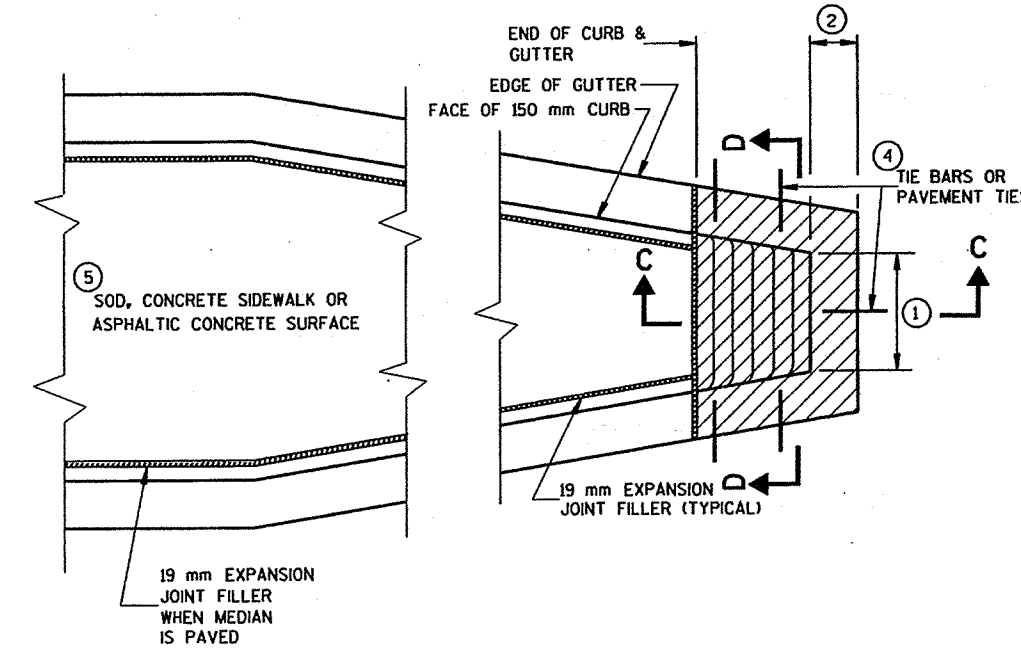
NOTE:
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN.

| | |
|--|--|
| CONCRETE CORRUGATED MEDIAN | |
| STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION | |
| APPROVED 07/30/94 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



CONCRETE MEDIAN BLUNT NOSE DETAIL



CONCRETE MEDIAN SLOPED NOSE DETAIL

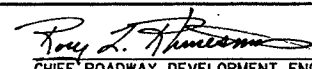
GENERAL NOTES

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.

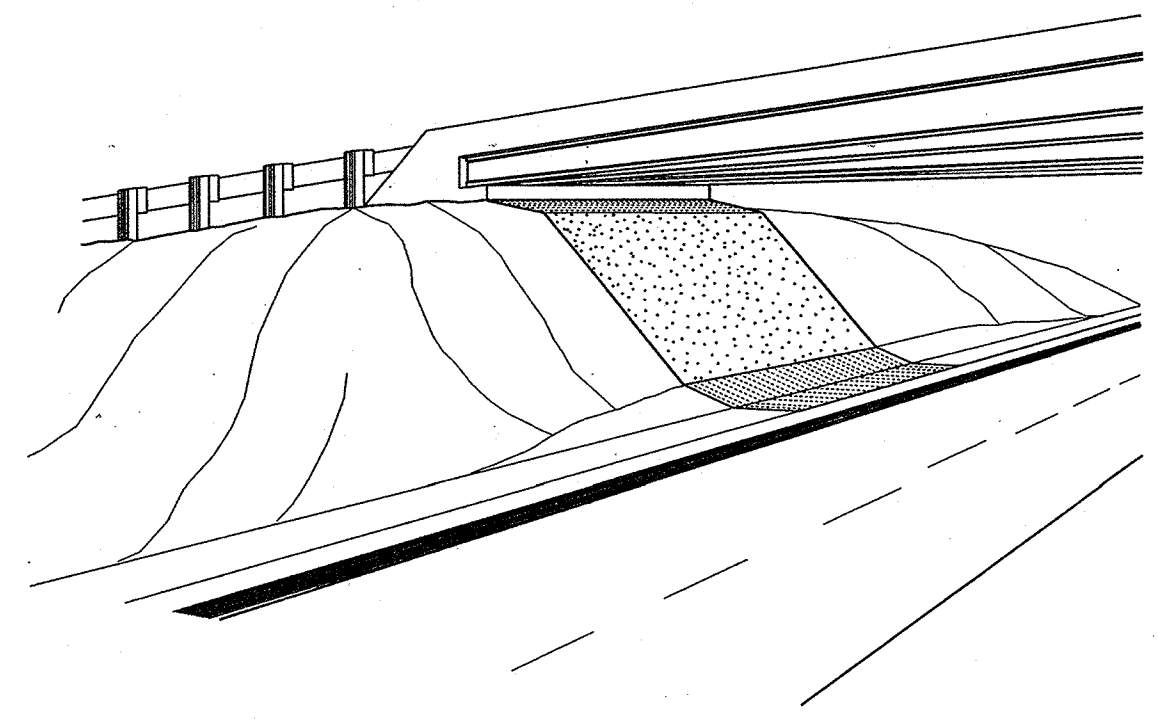
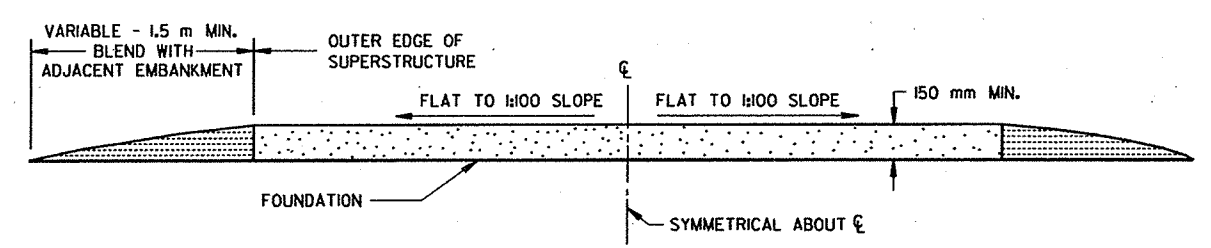
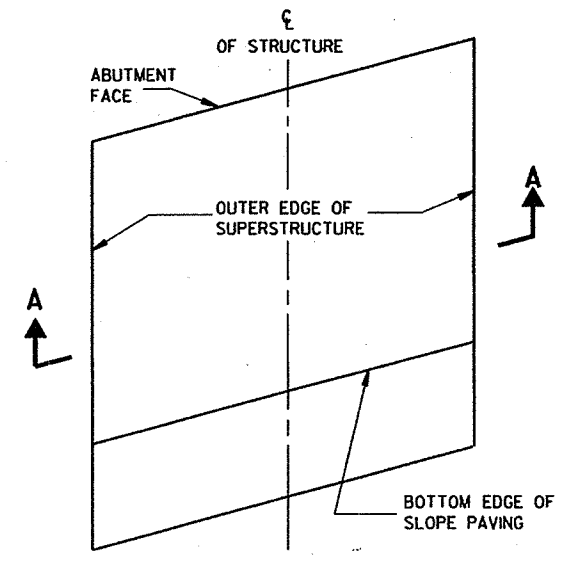
- ① SEE PLAN FOR MEDIAN NOSE WIDTH AND RADIUS (FOR ROUND NOSE ALTERNATE).
- ② WIDTH OF GUTTER TO MATCH EXISTING ADJACENT GUTTER OR AS SPECIFIED ELSEWHERE IN THE PLAN.
- ③ DEPTH EQUAL TO ADJACENT PAVEMENT. ADJACENT PAVEMENT STRUCTURE DETAILS ARE SHOWN IN THE PLAN. TYPICAL OPTIONS ARE:
 - (1) NEW OR EXISTING CONCRETE PAVEMENT.
 - (2) ASPHALTIC CONCRETE PAVEMENT OVER NEW OR EXISTING CONCRETE BASE COURSE.
 - (3) ASPHALTIC CONCRETE PAVEMENT OVER CRUSHED AGGREGATE BASE COURSE.
- ④ TIE BARS OR PAVEMENT TIES REQUIRED IN NEW CONCRETE PAVEMENT OR CONCRETE BASE COURSE. TIE BARS SHALL BE NO. 13 X 600 mm SPACED AT 600 mm C-C.
- PAVEMENT TIES REQUIRED IN EXISTING CONCRETE BASE COURSE. PAVEMENT TIES SHALL BE NO. 19 X 300 mm SPACED AT 900 mm C-C INSTALLED ON A HORIZONTAL SKEW OF 6:1. THE DIRECTION OF SKEW SHALL ALTERNATE AFTER EVERY ONE OR TWO BARS.
- ⑤ SURFACE TYPE AND DETAILS ARE SHOWN ELSEWHERE IN THE PLAN.

NOTE

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN.

| | |
|--|---|
| CONCRETE MEDIAN NOSE | |
| STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION | |
| APPROVED DATE 07/30/96 |  CHIEF ROADWAY DEVELOPMENT ENGINEER |
| FHWA | M |

PLOT NAME: REV. DATE:



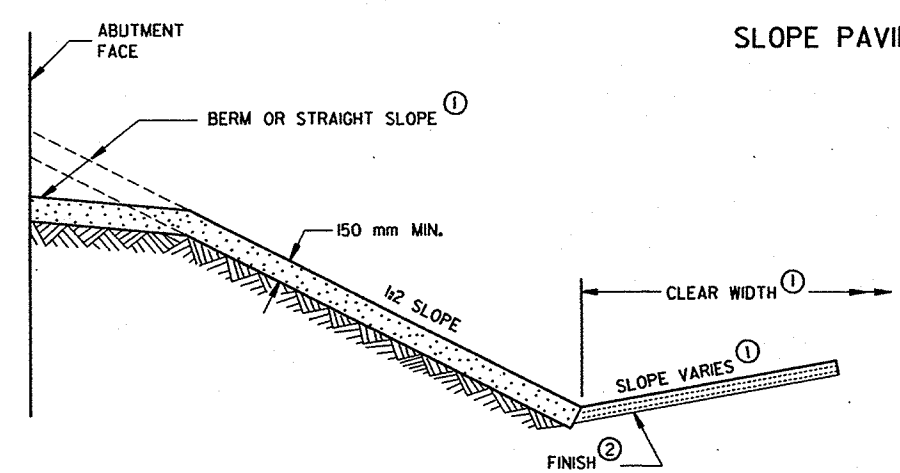
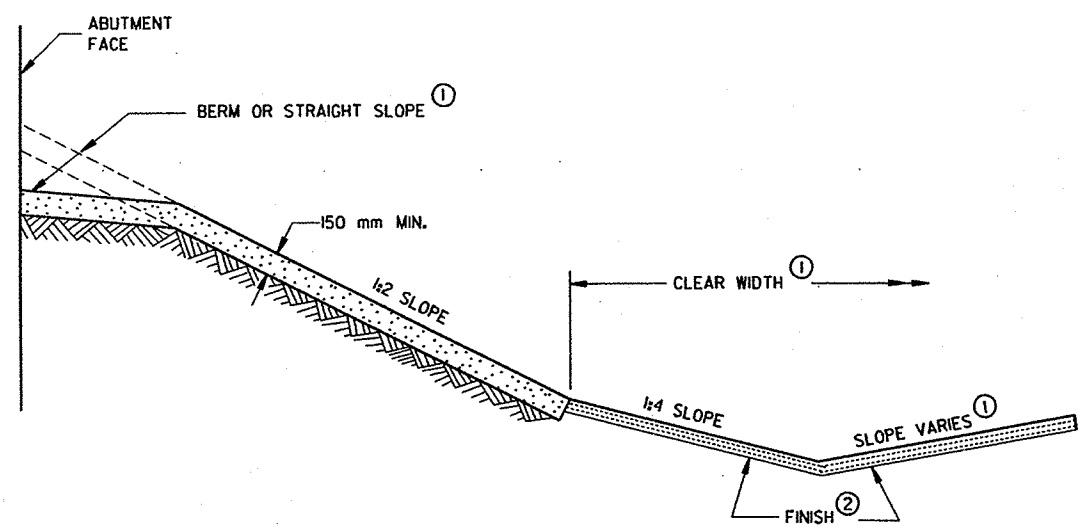
GENERAL NOTES

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.

WOOD FORMS MAY BE LEFT IN PLACE WHEN OF A QUALITY ACCEPTABLE TO THE ENGINEER.

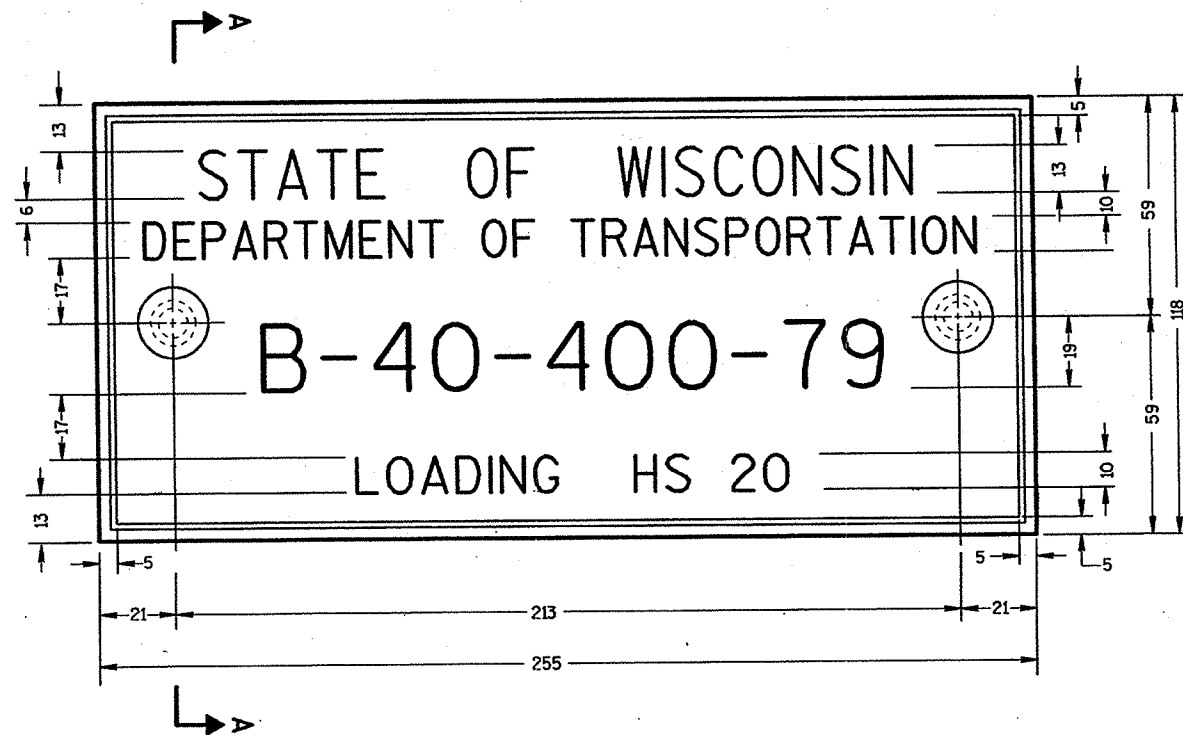
- ① DIMENSIONS, SLOPES AND SLOPE LIMITS ARE DETAILED ON THE STRUCTURE PLANS.
- ② MATCH EXISTING FINISH OR FINISH AS SHOWN ELSEWHERE IN THE CONTRACT.

SLOPE PAVING UNDER STRUCTURES

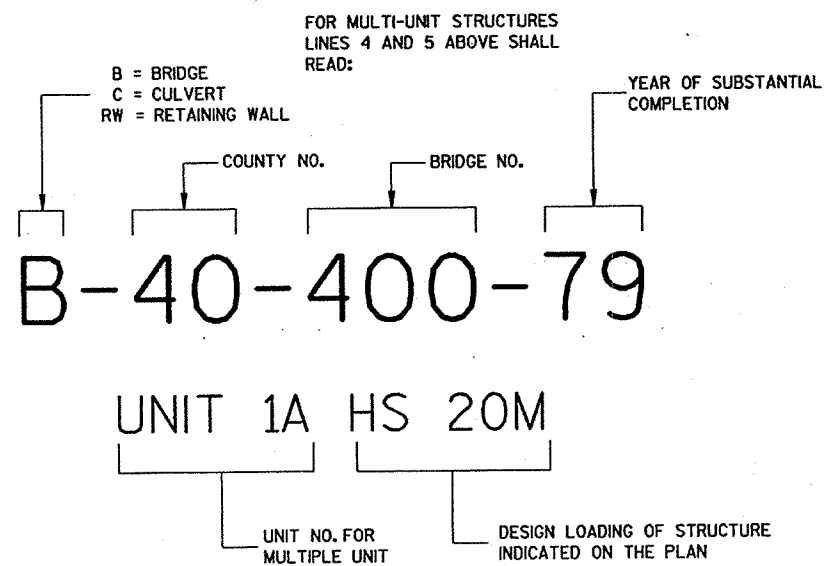


| | |
|--|--|
| SLOPE PAVING - STRUCTURES (CRUSHED AGGREGATE) | |
| STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION | |
| APPROVED DATE 01/25/95 | <i>Roy Z. Thumason</i> CHIEF ROADWAY DEVELOPMENT ENGINEER |
| FHWA | M |

S.D.D. 12 A 2-3
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



TYPICAL NAME PLATE
(BRIDGES, CULVERTS, AND RETAINING WALLS)



NUMBERING AND LOADING DESIGNATION
MULTI-UNIT STRUCTURES

GENERAL NOTES

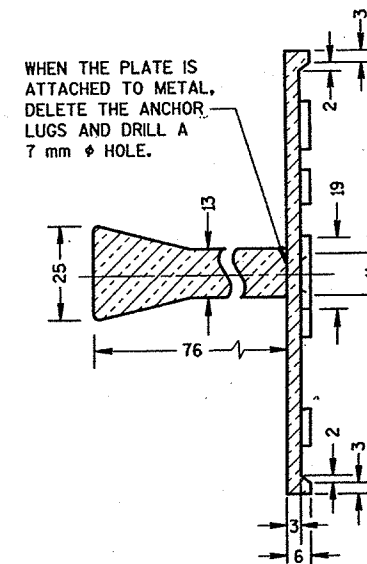
NAME PLATES TO BE INSTALLED ON BRIDGES, CULVERTS, AND RETAINING WALLS SHALL CONFORM TO THE REQUIREMENTS OF SECTION 506.2.4 OF THE STANDARD SPECIFICATIONS.

THE BRIDGE NUMBER AND DESIGN LOADING SHOWN ON THIS DRAWING ARE EXAMPLES ONLY. SEE CONSTRUCTION PLANS FOR INDIVIDUAL NUMBERING AND DESIGN LOADING.

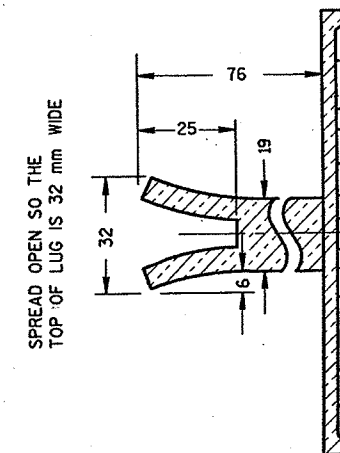
- ① EPOXY RESIN SHALL BE FROM AN APPROVED MANUFACTURER AND USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

NOTE

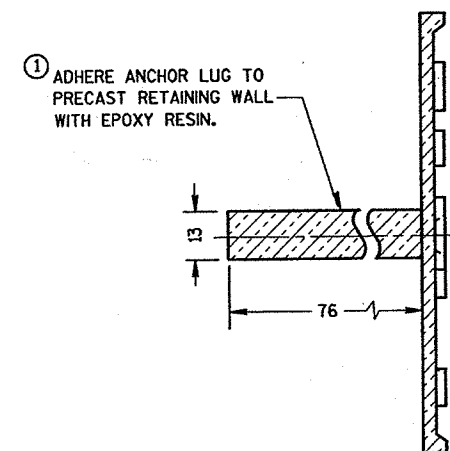
ALL DIMENSIONS SHOWN ARE IN MILLIMETERS



SECTION A-A



ALTERNATE LUG

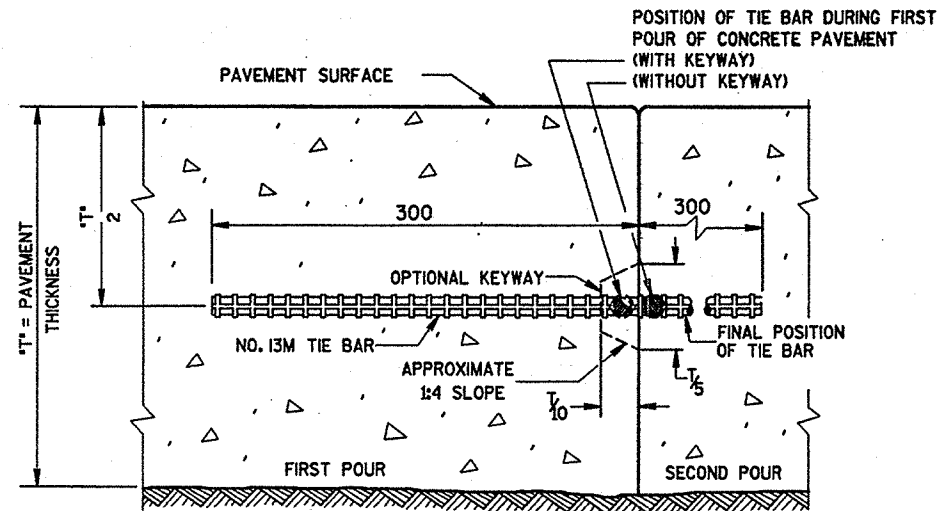


ALTERNATE LUG
(FOR ATTACHMENT TO PRECAST STRUCTURES)

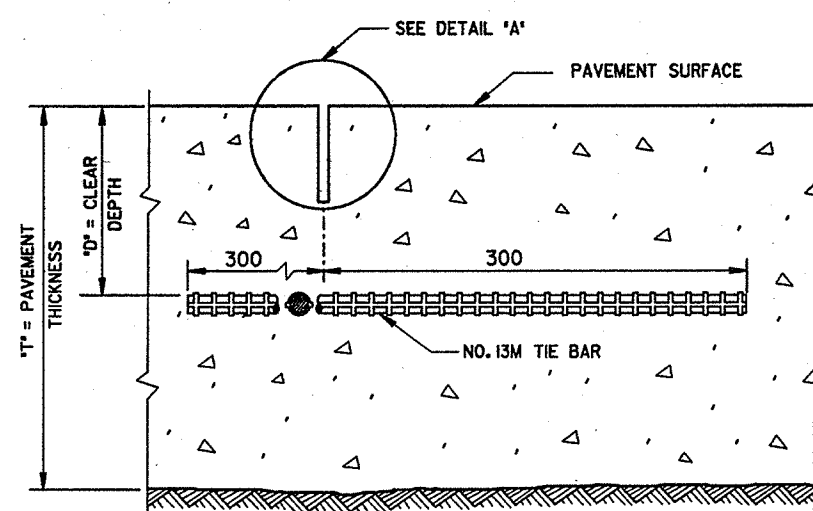
| | |
|--|---|
| NAME PLATE (STRUCTURES) | |
| STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION | |
| APPROVED 01/21/98 DATE | <i>Roy A. Thummes</i> CHIEF ROADWAY DEVELOPMENT ENGINEER |
| FRMA | M |

PLOT SCALE: 1:1
 PLOT NAME:
 REV. DATE:
 ORIGINATOR:

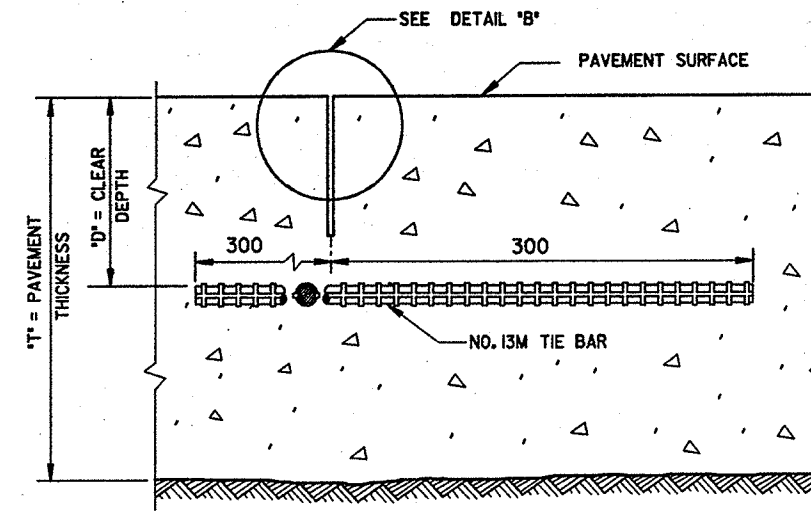
S.D.D. 13 C 1-10
 LEVELS ON - 2,3,4,5,6,7,8, 9,10,11,12,13,14,15, 16,17,18,19, 20,21,22, 23,24,25,26,27, 28,29,30,31,32,33, 34,35,36,37,38,39, 40,41, 42,43,44,45,46,47, 48, 49,50,51,52,53,54,55,56,57,58,59,60,61,62,63



CONSTRUCTION JOINT



SAWED JOINT



RIBBON JOINT

GENERAL NOTES

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

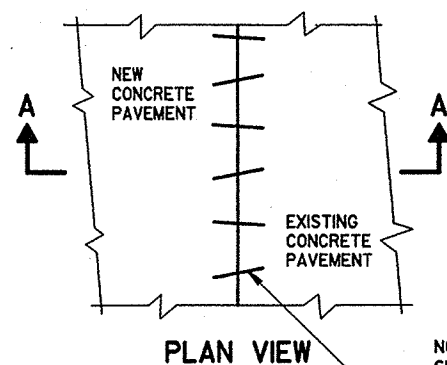
DETAILS "A" AND "B" ARE EQUAL ALTERNATES UNLESS OTHERWISE SPECIFIED IN THE CONTRACT.

LONGITUDINAL JOINTS SHALL NOT BE SEALED OR FILLED.

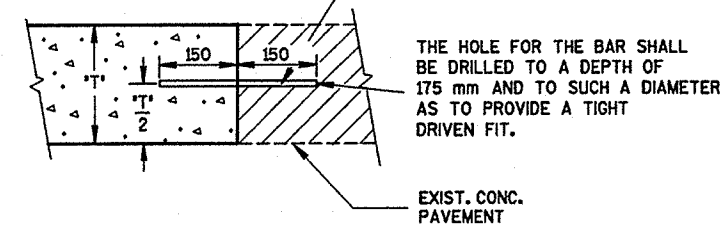
TIE BAR SPACINGS ARE VALID ONLY FOR PAVEMENT WIDTHS IN THE TABLE. FOR WIDER PAVEMENTS, TIED CONCRETE SHOULDERS OR RAMPS, THE TIE BAR SPACING SHALL BE AS SHOWN ON THE PLANS.

NOTE

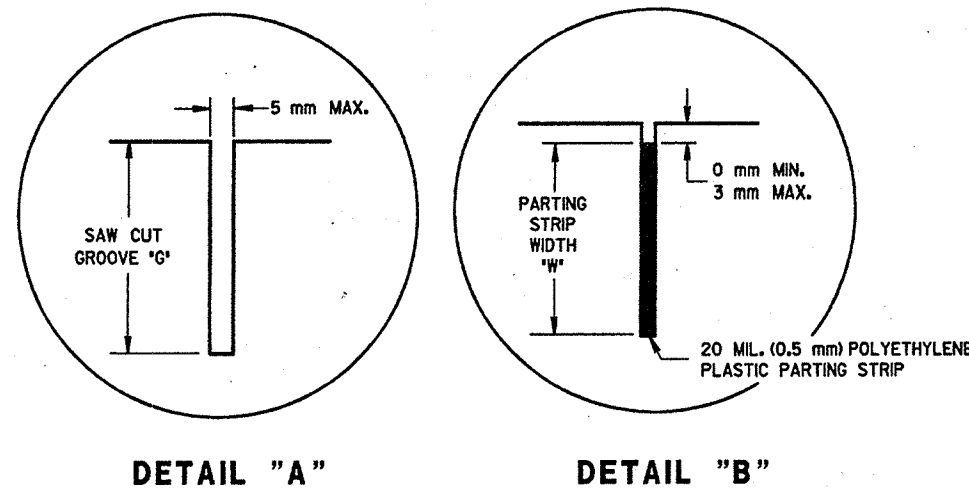
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN.



NO. 19M TIE BARS SPACED 900 mm C-C, INSTALLED ON 6:1 SKEW HORIZONTALLY. DIRECTION OF SKEW ALTERNATING AFTER EVERY ONE OR TWO BARS.



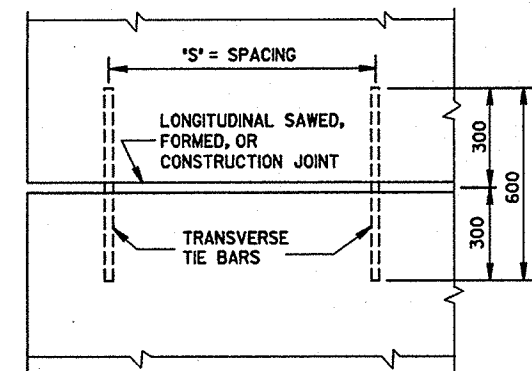
SECTION A-A PAVEMENT TIES



DETAIL "A"

DETAIL "B"

| PAVEMENT THICKNESS "T" (mm) | CLEAR DEPTH "D" (mm) | SAW CUT GROOVE "G" (mm) | MAXIMUM TIE BAR SPACING "S" (mm) | | PARTING STRIP WIDTH "W" (mm) |
|-----------------------------|----------------------|-------------------------|----------------------------------|-----|------------------------------|
| | | | PAVEMENT WIDTH (m) 7.2 OR 7.8 | 9.0 | |
| 150,165 | 75 ± 13 | 50 | 1 000 | 900 | 50 |
| 175,190 | 85 ± 25 | 55 | 850 | 800 | 55 |
| 200,215 | 95 ± 25 | 65 | 750 | 700 | 65 |
| 225,240 | 110 ± 25 | 75 | 650 | 600 | 75 |
| 250,265 | 120 ± 25 | 85 | 600 | 550 | 85 |
| 275,290 | 135 ± 25 | 95 | 550 | 500 | 95 |
| 300 | 145 ± 25 | 100 | 500 | 450 | 100 |



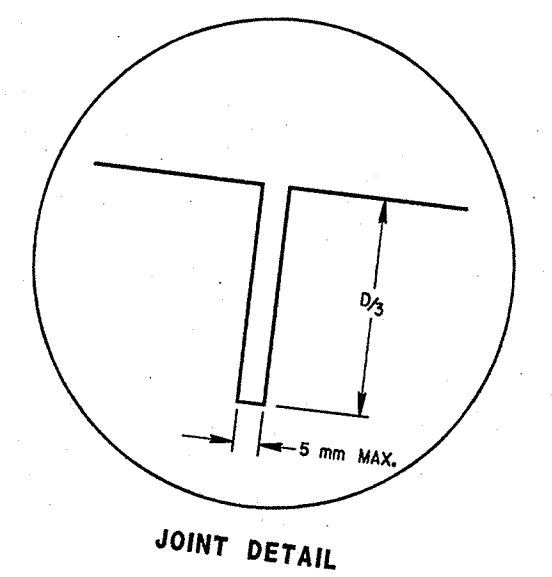
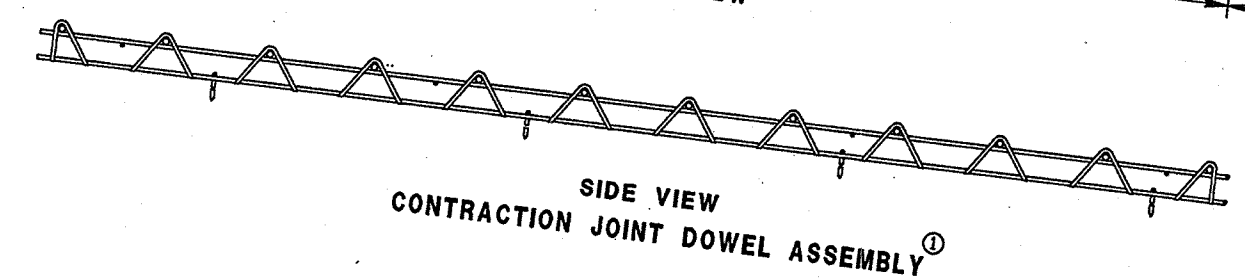
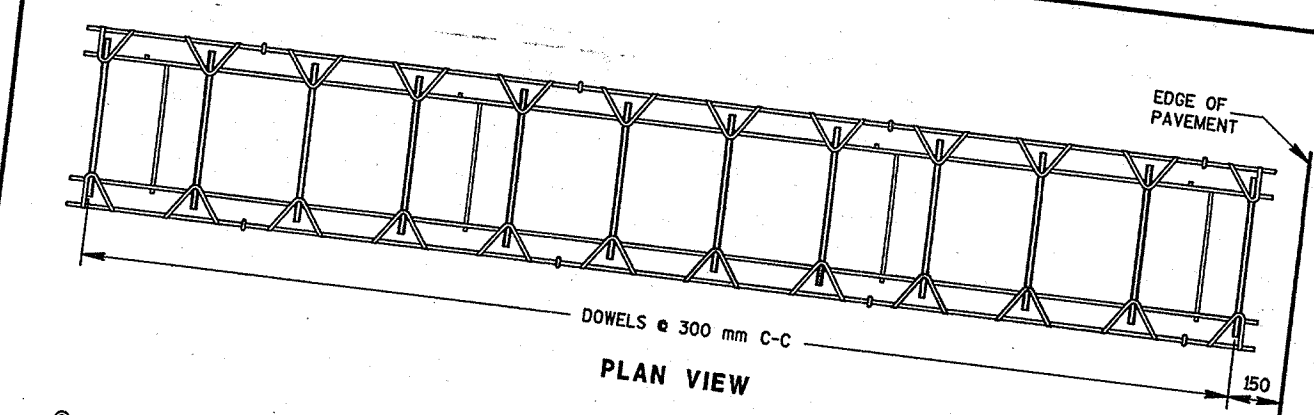
PLAN VIEW SHOWING LOCATION OF TIE BARS

CONCRETE PAVEMENT
LONGITUDINAL JOINTS
AND PAVEMENT TIES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
9-24-98
DATE
CHIEF PAVEMENTS & RESEARCH ENGINEER

REV. DATE: PLOT SCALE: PLOT NAME: FILE NAME: S.D.D. 13 C 13-3



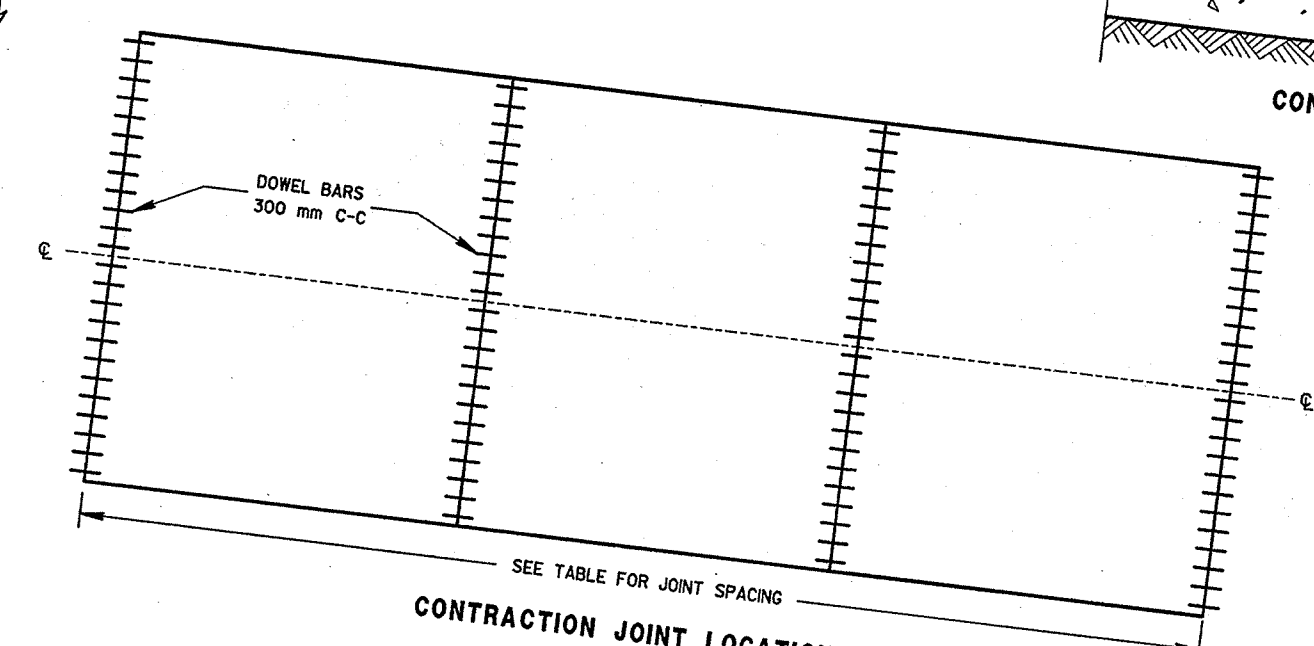
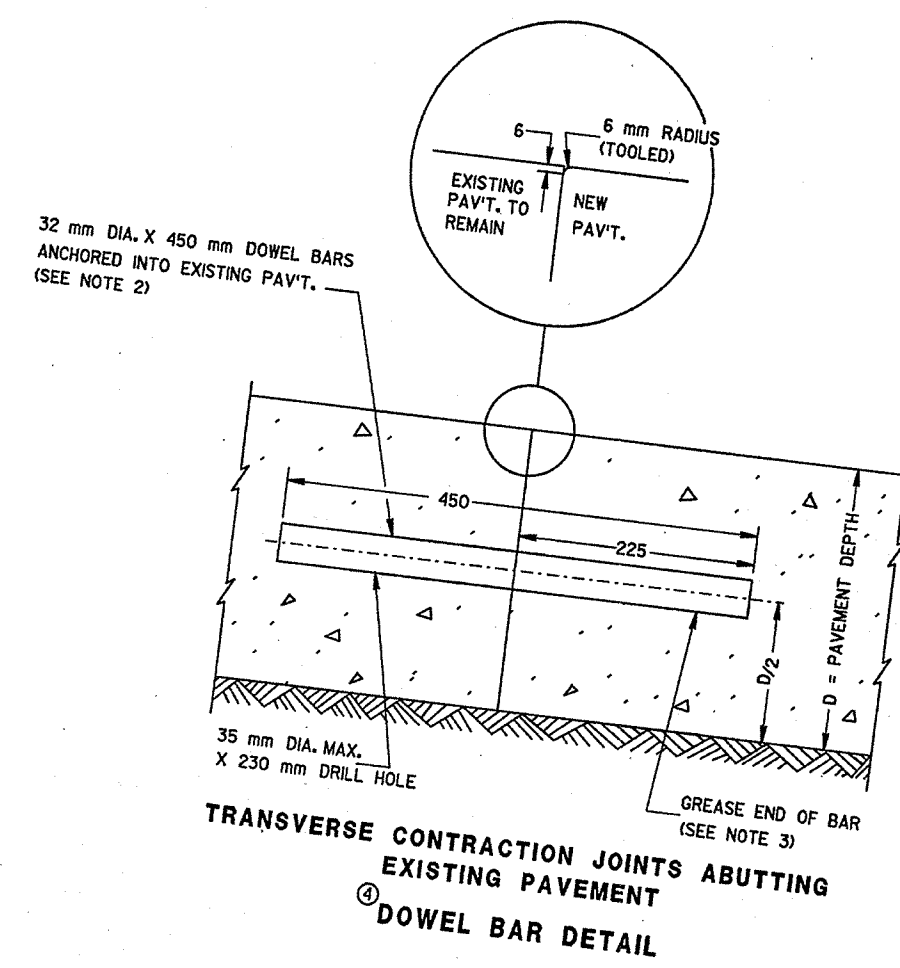
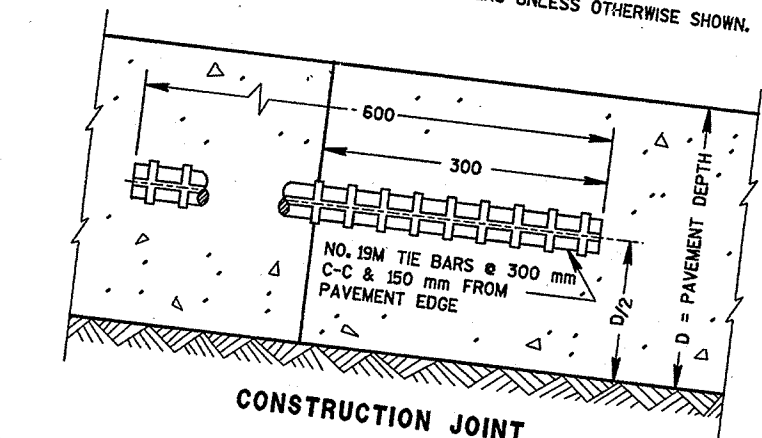
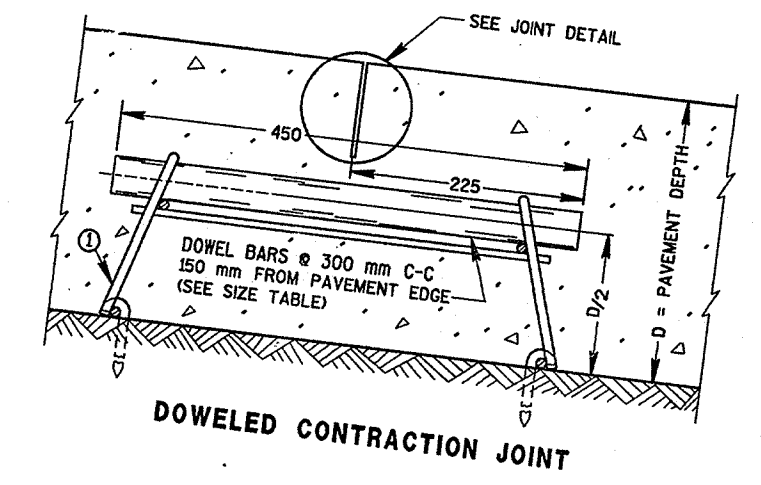
GENERAL NOTES
DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

CONTRACTION JOINTS
UNLESS OTHERWISE SPECIFIED, CONTRACTION JOINTS SHALL BE NORMAL TO THE CENTERLINE. THE LOCATION OF CONTRACTION JOINTS THRU INTERSECTIONS SHALL BE AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
CONTRACTION JOINTS SHALL NOT BE SEALED OR FILLED.
DOWEL BARS SHALL BE INSTALLED PARALLEL TO THE PAVEMENT CENTERLINE AND SURFACE.

CONSTRUCTION JOINTS
CONSTRUCTION JOINTS SHALL BE A MINIMUM OF 1.2 m FROM THE NEAREST CONTRACTION JOINT AND ALIGNED EITHER PARALLEL TO CONTRACTION JOINTS OR AT 90° TO THE CENTERLINE.
TIE BARS MAY BE INSERTED THROUGH THE HEADER BOARD AFTER THE CONCRETE HAS BEEN POURED.

- ① ALTERNATIVE DESIGNS OF THE DOWEL ASSEMBLY MAY BE USED WHEN APPROVED BY THE ENGINEER. MECHANICAL DOWEL BAR IMPLANTERS MAY BE USED INSTEAD OF DOWEL ASSEMBLIES.
- ② DOWEL BARS SHALL BE ANCHORED INTO DRILL HOLES WITH AN APPROVED EPOXY OF BOND BREAKING GREASE.
- ③ THE FREE END OF DOWEL BARS SHALL RECEIVE A THIN UNIFORM COATING OF BOND BREAKING GREASE.
- ④ DOWEL BARS INSTALLED BY DRILLING SHALL BE SPACED 380 mm ON CENTER. THE GROUPING OF DOWEL BARS SHALL BE CENTERED INSIDE THE SLAB BASED ON ALL THE FOLLOWING SITUATIONS:
BETWEEN THE EDGES OF PAVEMENTS WITHOUT LONGITUDINAL JOINTS OR BETWEEN THE EDGE OF PAVEMENT AND NEAREST LONGITUDINAL JOINT OR BETWEEN TWO ADJACENT LONGITUDINAL JOINTS.
THE CLEAR DISTANCE FROM THE EDGE OF PAVEMENT OR LONGITUDINAL JOINT TO THE NEAR EDGE OF DOWEL BAR NEAREST THAT EDGE OR JOINT SHALL BE A MINIMUM OF 150 mm AND A MAXIMUM OF 355 mm.

NOTE
ALL DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS OTHERWISE SHOWN.



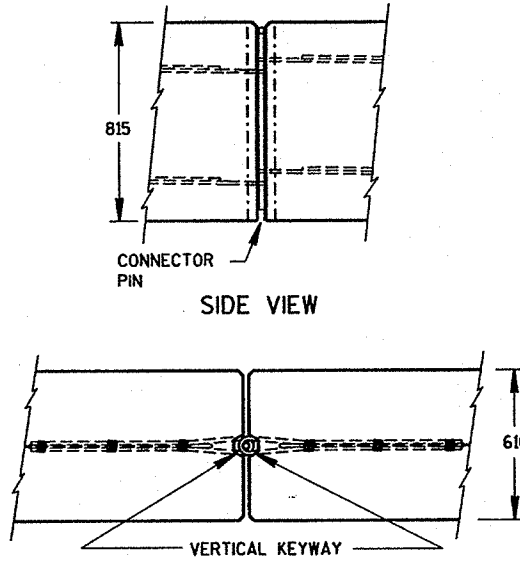
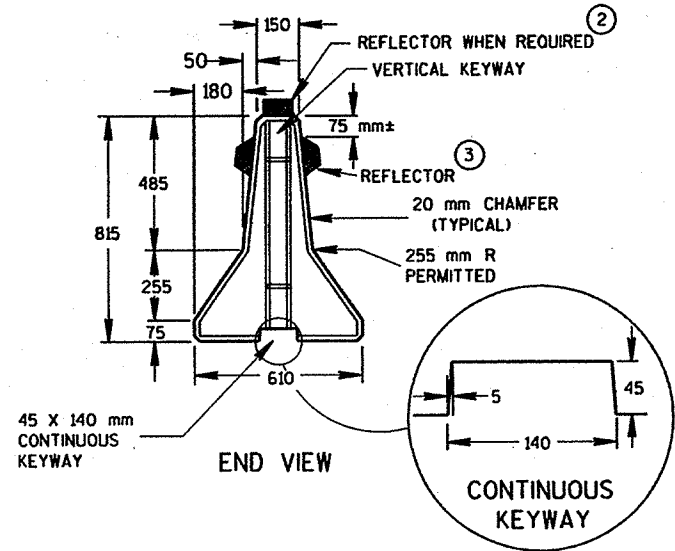
PAVEMENT DEPTH, DOWEL BAR SIZE AND JOINT SPACING TABLE

| PAVEMENT DEPTH (D) | DOWEL BAR DIAMETER | CONTRACTION JOINT SPACING |
|--------------------|--------------------|---------------------------|
| 150,165 mm | 32 mm | 3.6 m |
| 175,190 mm | 32 mm | 4.3 m |
| 200,215 mm | 32 mm | 4.5 m |
| 225,240 mm | 32 mm | 4.5 m |
| 250 mm & ABOVE | 38 mm | 5.5 m |

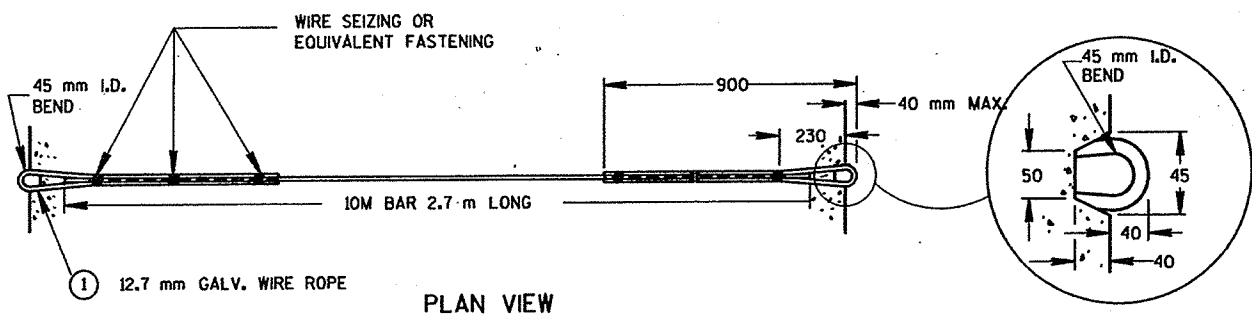
URBAN DOWELED CONCRETE PAVEMENT

| DESCRIPTION | SIZE | NO. REQ'D | LENGTH (mm) |
|---------------------------|---------------|-----------|-------------|
| TOP CONNECTOR WIRE ROPE ① | 12.7 mm | 2 | 1800 |
| BOTTOM CONN. WIRE ROPE ① | 12.7 mm | 2 | 1800 |
| TOP CONNECTOR STEEL BAR | 15M | 1 | 2740 |
| BOTTOM CONN. STEEL BAR | 15M | 1 | 2740 |
| STEEL CONNECTING PIN | 31.75 mm DIA. | 1 | 760 |
| BOTTOM TIE BARS | 15M | 5 | 560 |
| VERTICAL STEEL BAR | 15M | 10 | 635 |
| HORIZONTAL STEEL BAR | 15M | 4 | 2845 |

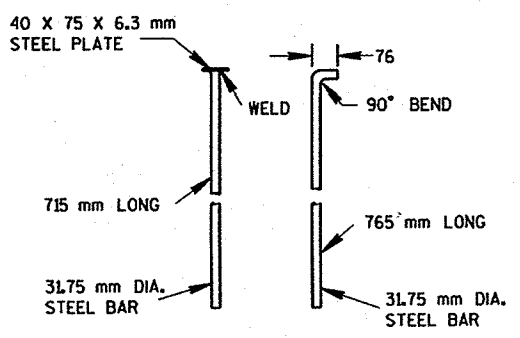
BILL OF MATERIALS



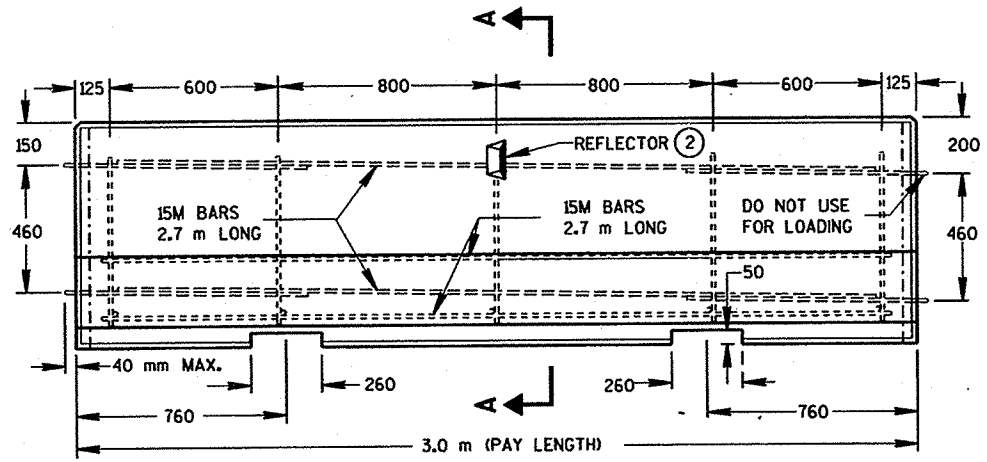
PLAN VIEW CONNECTION DETAILS



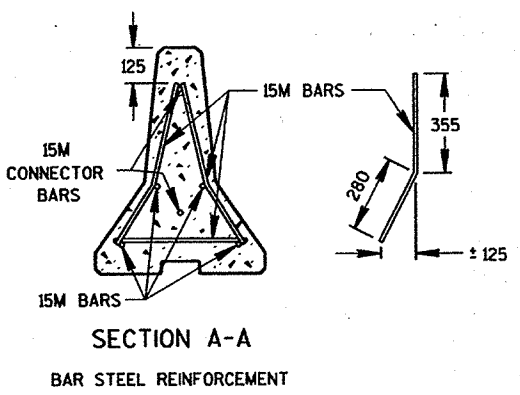
TOP & BOTTOM CONNECTOR ASSEMBLY ①



ALTERNATE CONNECTING PINS



SIDE VIEW LOCATION OF REINFORCEMENT STEEL



SECTION A-A BAR STEEL REINFORCEMENT

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.

BARRIERS SHALL BE REINFORCED WITH EITHER BAR STEEL REINFORCEMENT AS DETAILED ON THIS DRAWING OR WELDED STEEL WIRE FABRIC ADEQUATE TO ASSURE SAFE HANDLING STRENGTH.

ALL STEEL REINFORCEMENT SHALL BE EMBEDDED 50 mm CLEAR UNLESS OTHERWISE SHOWN.

GALVANIZED WIRE ROPE SHALL BE 6 X 19 CLASS 2 IWRC WITH A MINIMUM BREAKING STRENGTH OF 8900 N AND SHALL CONFORM TO FEDERAL SPECIFICATION RR-W-410. THE ZINC COATING SHALL CONFORM TO TABLE II OF THE FEDERAL SPECIFICATIONS.

REFLECTORS SHALL CONFORM TO SECTION 633 OF THE STANDARD SPECIFICATIONS EXCEPT THE SHAPE SHALL BE AS SHOWN ON THIS DRAWING. ALTERNATIVE SHAPES MAY BE USED WHEN APPROVED BY THE ENGINEER. CONCRETE SURFACE PREPARATION, ADHESIVE AND METHOD OF APPLICATION SHALL BE AS RECOMMENDED BY THE REFLECTOR MANUFACTURER. THE COLOR OF REFLECTORS SHALL BE YELLOW. MAXIMUM SPACING SHALL BE 6.0 m.

- ① CONNECTOR ASSEMBLIES MAY, AT THE CONTRACTORS OPTION, BE FORMED FROM A CONTINUOUS SECTION OF 12.7 mm GALV. WIRE ROPE (5 m MIN. LENGTH). THE 15M CONNECTOR STEEL BARS MAY THEN BE OMITTED.
- ② TOP MOUNTED REFLECTORS SHALL BE PROVIDED IN ADDITION TO THE SIDE MOUNTED REFLECTORS ON ALL BARRIER INSTALLATIONS LOCATED ON CURVED ALIGNMENT LONGER THAN 60 m.
- ③ BARRIERS USED TO SEPARATE OPPOSING TRAFFIC SHALL HAVE REFLECTORS ON BOTH SIDES. TOP MOUNTED REFLECTORS SHALL BE DOUBLE FACED FOR THIS CONDITION.

ALTERNATE DESIGN

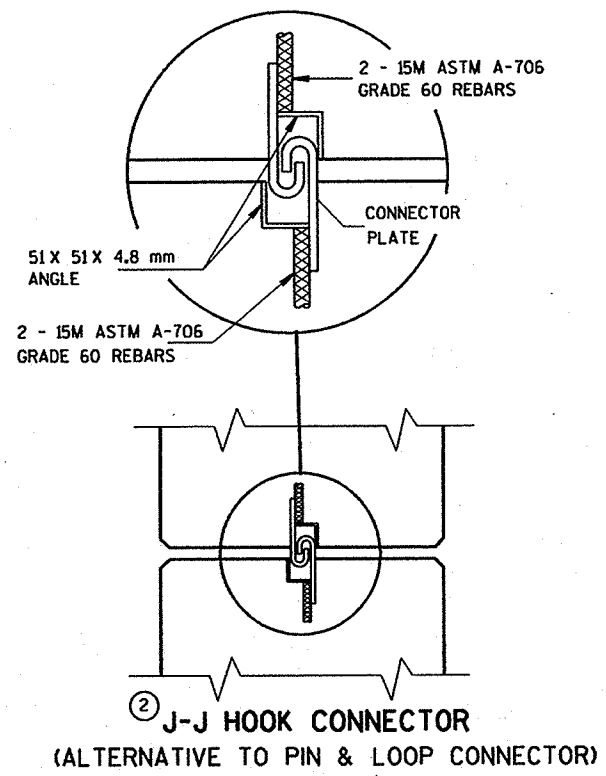
J-J HOOKS PORTABLE CONCRETE BARRIER BY EASI-SET INDUSTRIES MAY BE FURNISHED INSTEAD OF THE BARRIER DETAILED ON THIS DRAWING. CONTACT INFORMATION: EASI-SET INDUSTRIES, P.O. BOX 300, MIDLAND, VIRGINIA 22728, TELEPHONE (703) 439-8911.

NOTE

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN.

ALTERNATE DESIGN

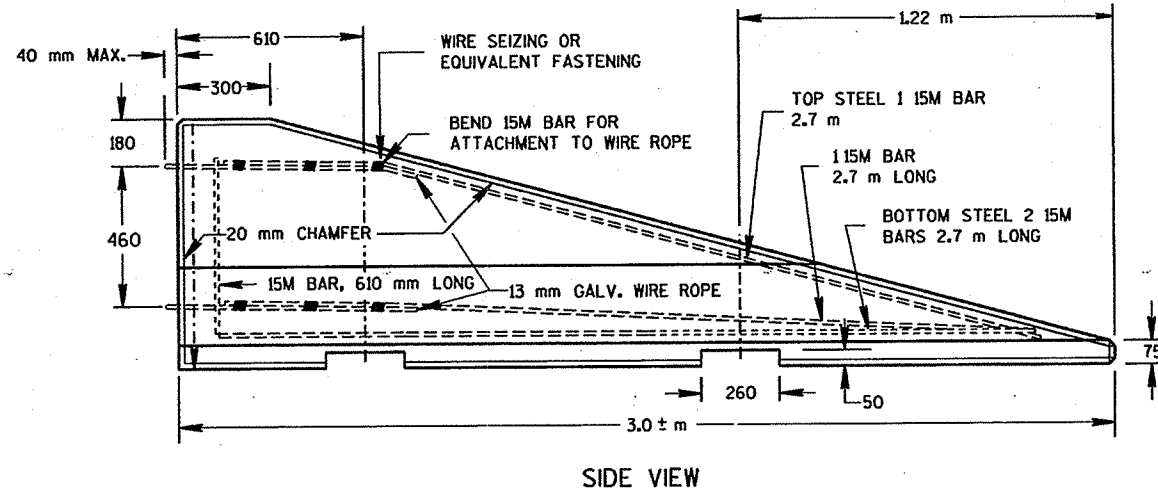
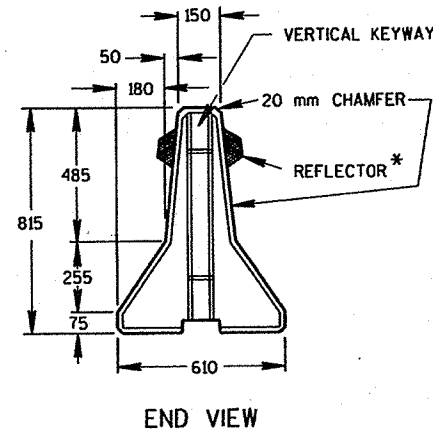
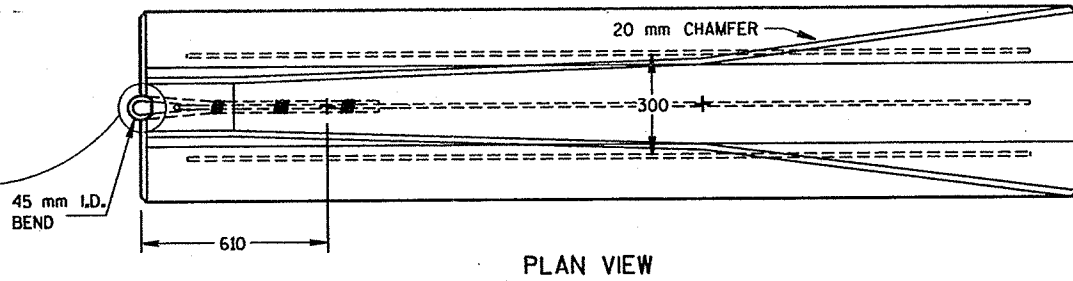
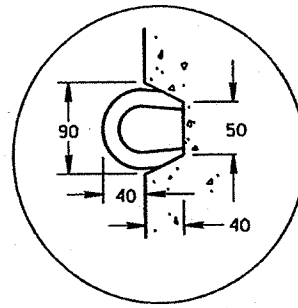
J-J HOOKS PORTABLE CONCRETE BARRIER BY EASI-SET INDUSTRIES MAY BE FURNISHED INSTEAD OF THE BARRIER DETAILED ON THIS DRAWING. CONTACT INFORMATION: EASI-SET INDUSTRIES, P.O. BOX 300, MIDLAND, VIRGINIA 22728, TELEPHONE (703) 439-8911.



TEMPORARY PRECAST
CONCRETE BARRIER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

S.D.D. 14 B 7-90
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:



END SECTION FOR TEMPORARY PRECAST CONCRETE BARRIER

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.

THE PORTABLE CRASH CUSHION SHALL BE THE G-R-E-A-T CZ IMPACT ATTENUATOR MANUFACTURED BY ENERGY ABSORPTION SYSTEMS, INC.; ONE EAST WACKER DRIVE, CHICAGO, IL., 60601.

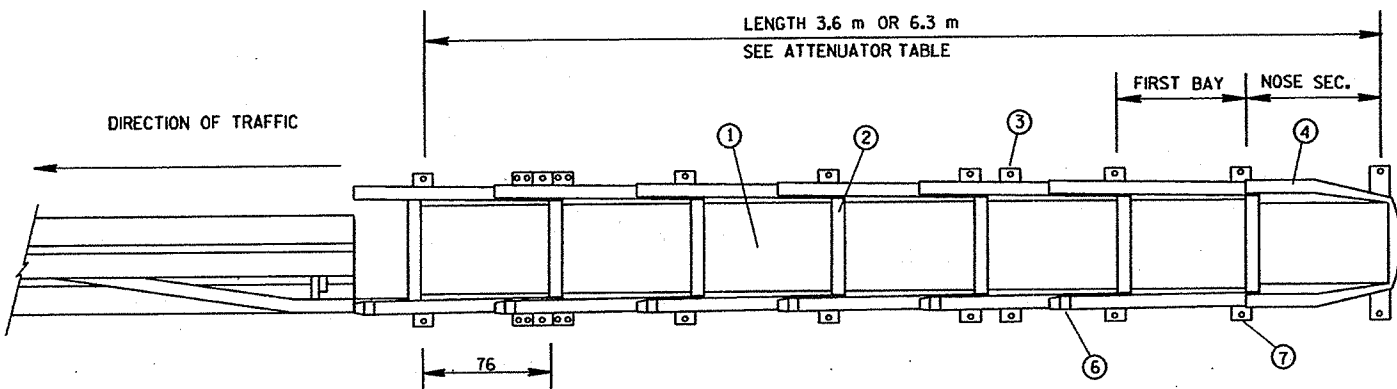
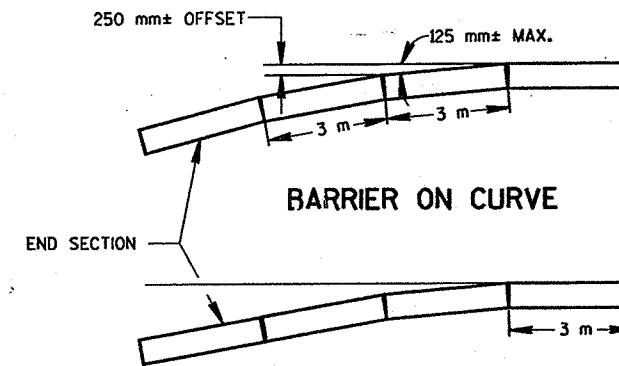
THE CRASH CUSHION SHALL BE MANUFACTURED, ASSEMBLED AND INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND AS DETAILED ELSEWHERE IN THE PLANS OR AS SHOWN ON THE APPROVED SHOP DRAWINGS. THE CRASH CUSHION PLATFORM SHALL BE ANCHORED TO EITHER 150 mm MINIMUM CONCRETE PAVEMENT OR 75 mm MINIMUM ASPHALTIC SURFACES THAT HAVE A PREPARED COMPACTED SUBBASE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

GALVANIZED WIRE ROPE SHALL BE 6 X 19 CLASS 2 IWRC WITH A MINIMUM BREAKING STRENGTH OF 9050 kg, AND SHALL CONFORM TO FEDERAL SPECIFICATION RR-W-410. THE ZINC COATING SHALL CONFORM TO TABLE II OF THE FEDERAL SPECIFICATIONS.

*WHEN BARRIERS ARE USED TO SEPARATE OPPOSING TRAFFIC, REFLECTORS ARE REQUIRED ON BOTH SIDES.

NOTE

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN.

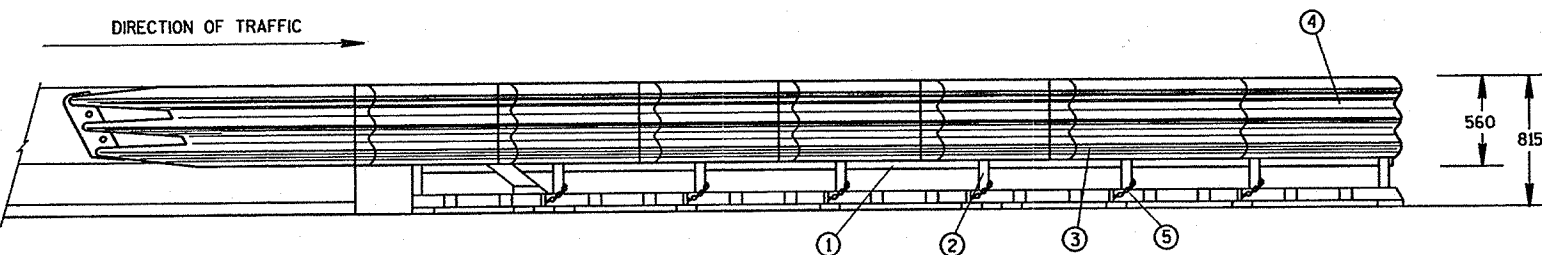


ATTENUATOR TABLE

| ATTENUATOR LENGTH (m) | NO. OF BAYS | DESIGN SPEED km/h |
|-----------------------|-------------|-------------------|
| 3.6 | 3 | 60 OR LESS |
| 6.3 | 6 | 60 TO 90 |

FLARE AT BARRIER END

| OPERATING SPEED, km/h | FLARE RATE |
|-----------------------|------------|
| 60 OR LESS | ±10 |
| 80 OR MORE | ±15 |



NOTE: CROSS SLOPE OF UNIT NOT TO EXCEED 5%

- ① HEX-FOAM CARTRIDGE
- ② DIAPHRAGM
- ③ THRIE BEAM FENDER PANEL
- ④ NOSE COVER
- ⑤ STABILIZING CHAIN
- ⑥ DEFLECTOR PANEL
- ⑦ ANCHORAGE DEVICE (WHERE ONE-WAY TRAFFIC EXISTS)

CONSTRUCTION ZONE PORTABLE CRASH CUSHION

PRECAST CONCRETE BARRIER
END SECTION AND
PORTABLE CRASH CUSHION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

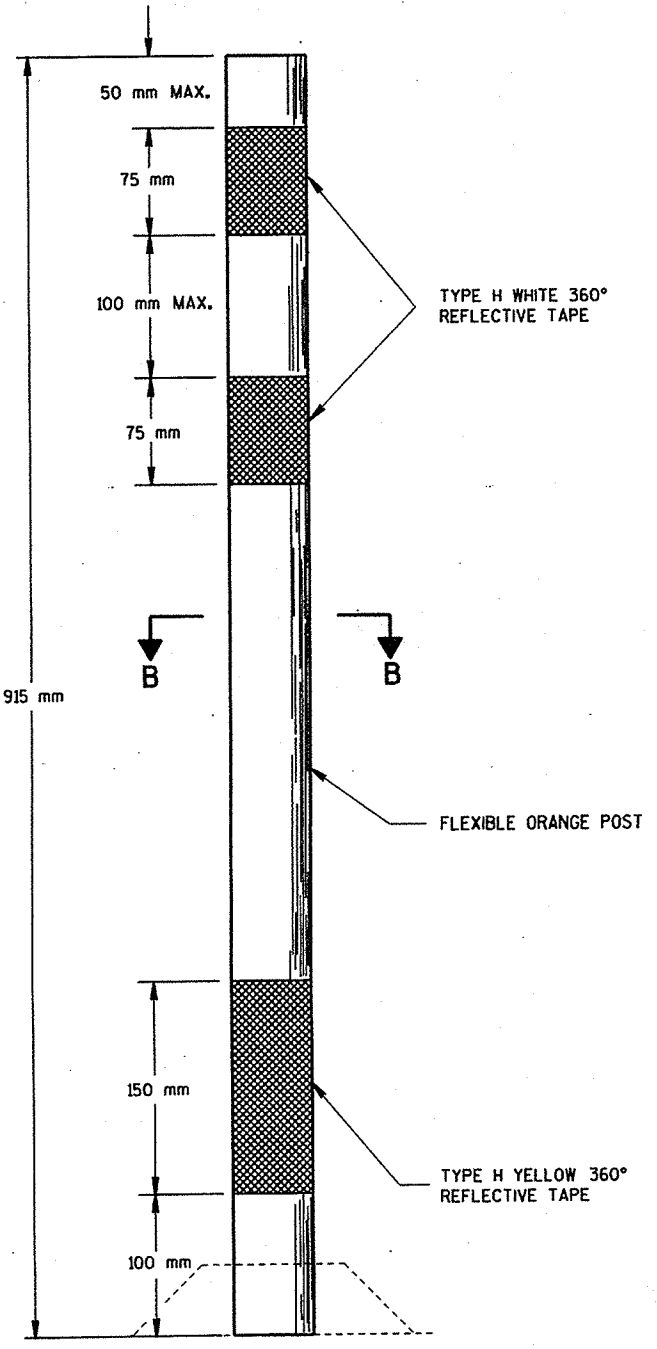
APPROVED
10/24/85
DATE

[Signature]
CHIEF ROADWAY DEVELOPMENT ENGINEER

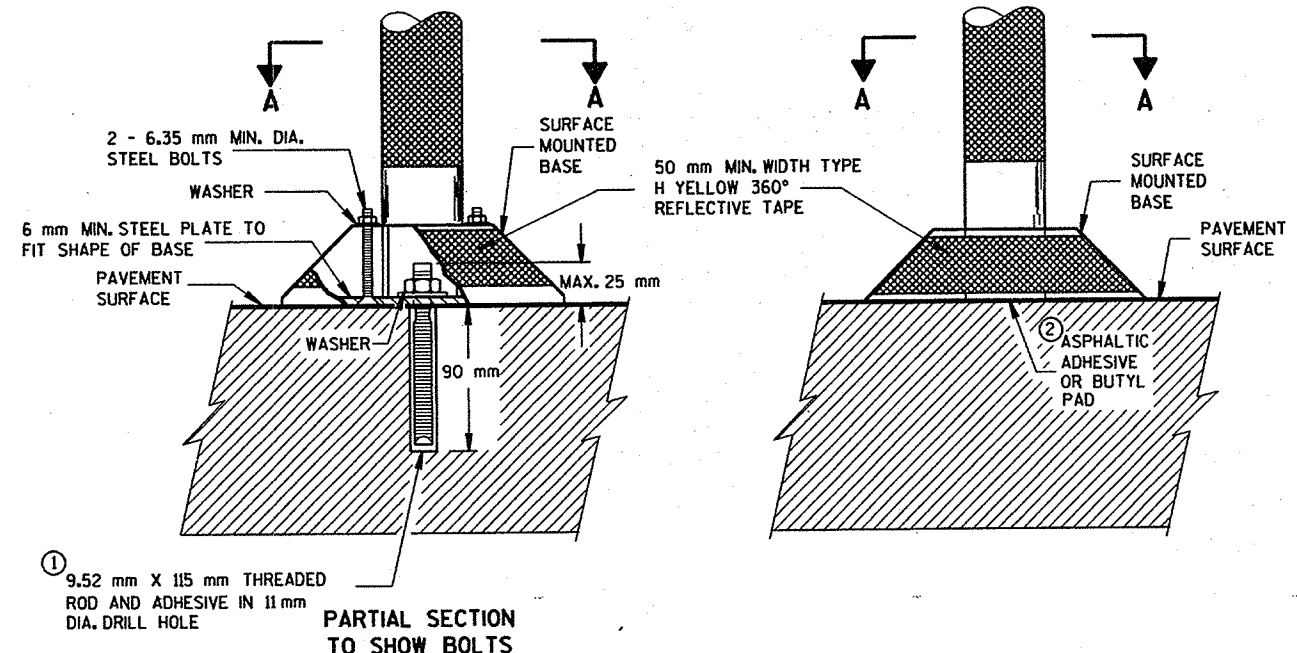
FWA

S.D.D. 14 B 7-9B
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

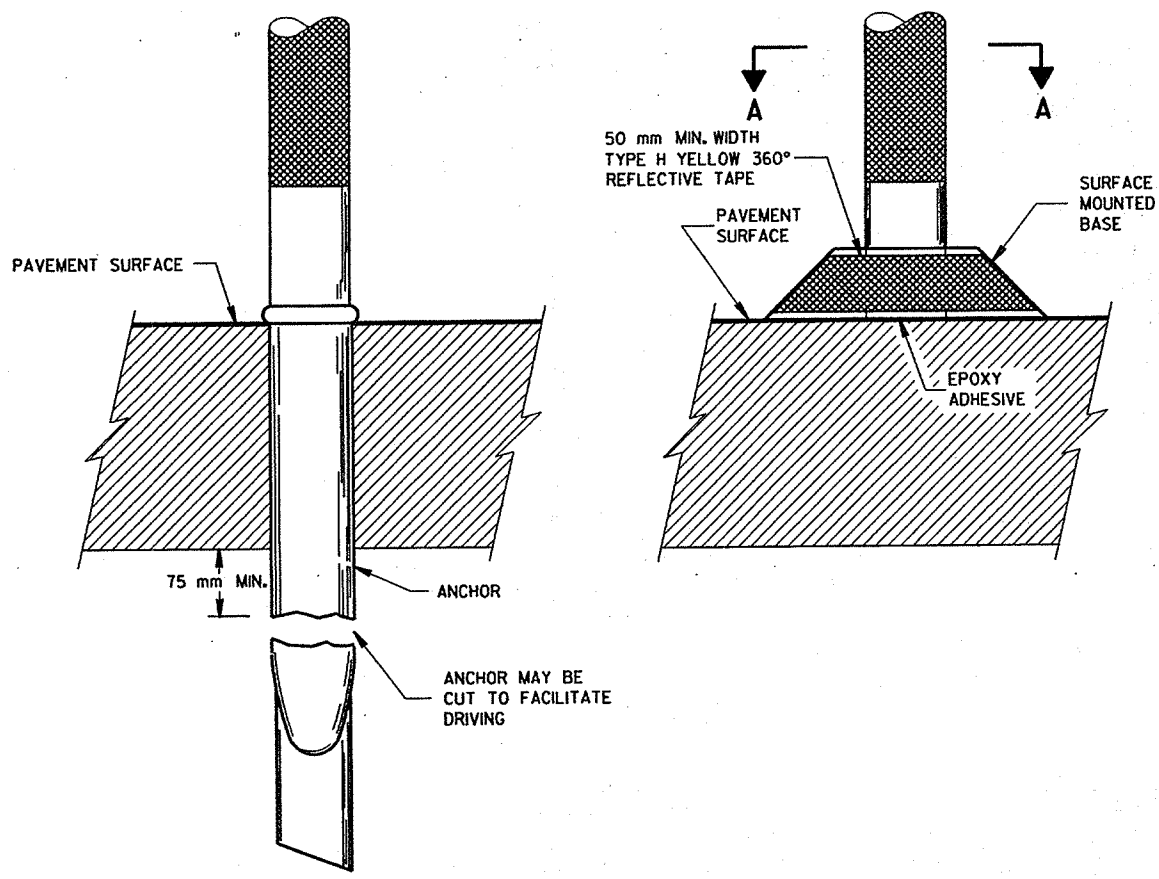
S.D.D. 15 C 11-5
 LEVELS ON - 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63



FLEXIBLE TUBULAR MARKER POST



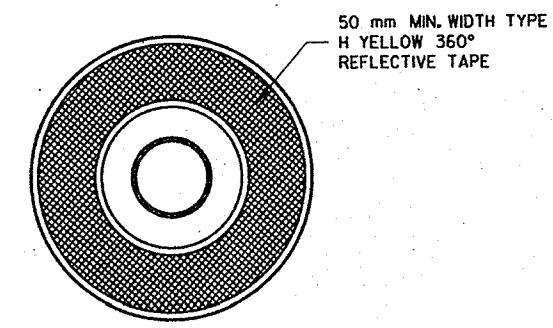
PARTIAL SECTION TO SHOW BOLTS
 POST BASES ON NEW OR EXISTING PAVEMENT



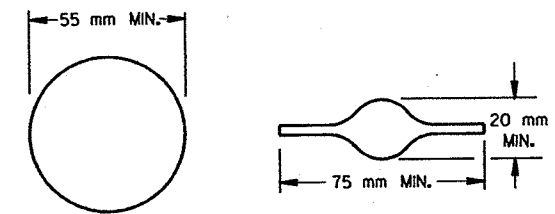
POST ANCHOR AND BASE ON PAVEMENT WHICH WILL BE REMOVED

GENERAL NOTES

- DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.
- SURFACE MOUNTED BASES SHALL BE FURNISHED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS TO BE COMPATIBLE WITH FLEXIBLE TUBULAR MARKER POSTS TO A SIZE AND SHAPE THAT WILL PROVIDE A STABLE POST FOUNDATION WHEN SECURED TO THE PAVEMENT.
- ① THREADED ROD SHALL BE MACHINED DOWN TO 7.11 mm DIA. 31.75 mm FROM THE TOP.
 - ② THE ASPHALTIC ADHESIVE OR BUTYL PAD FURNISHED SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.



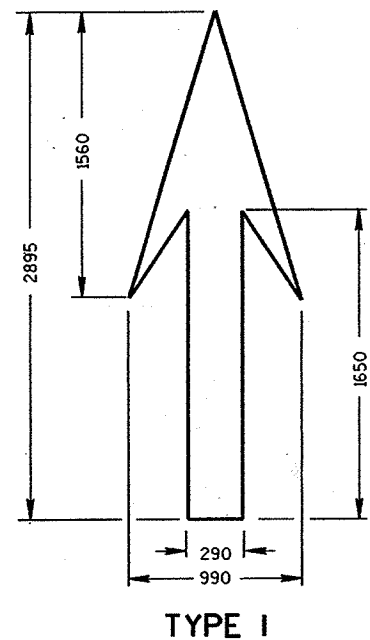
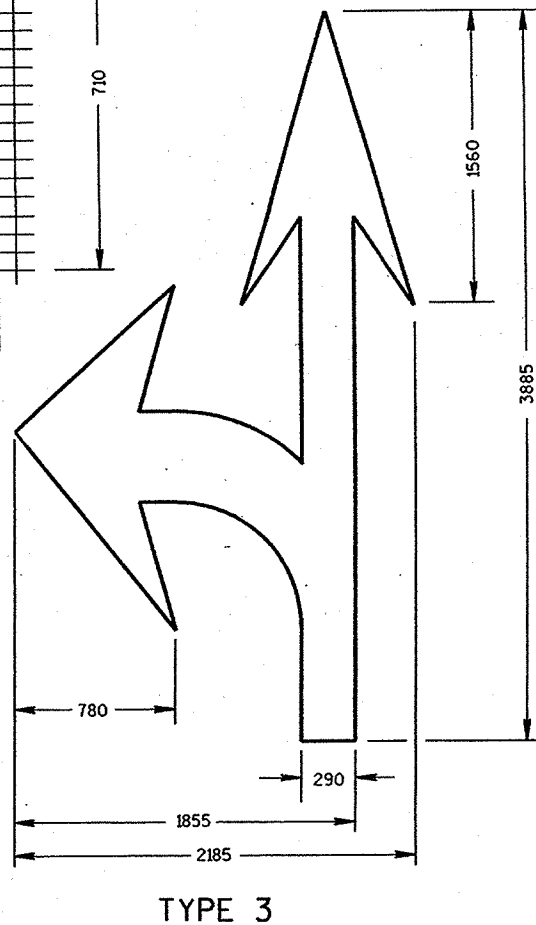
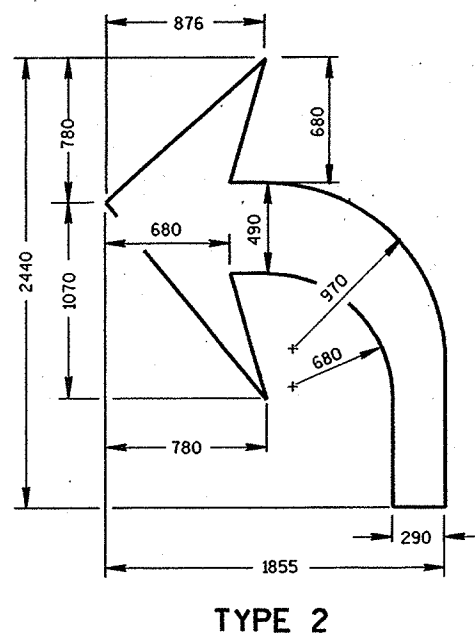
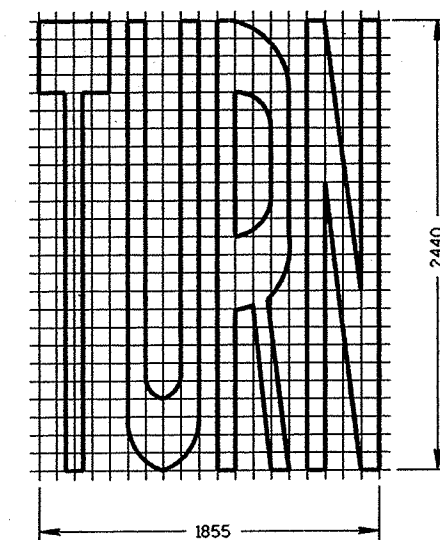
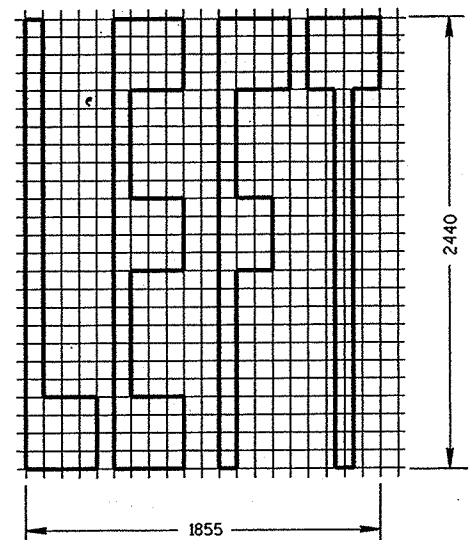
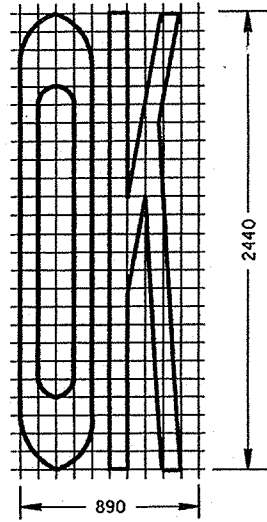
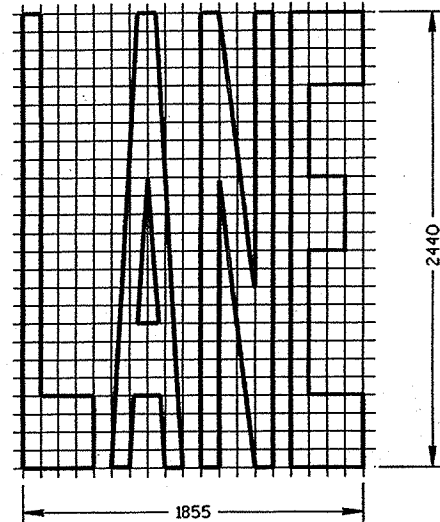
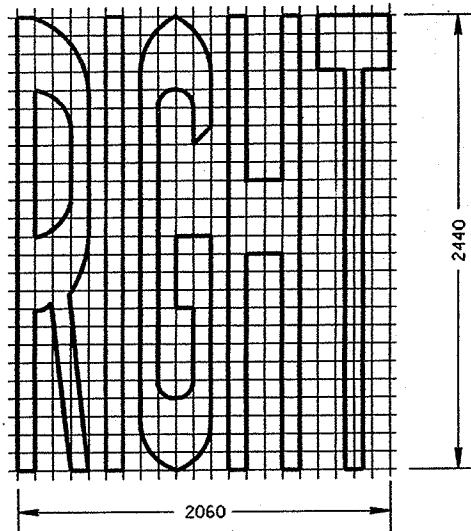
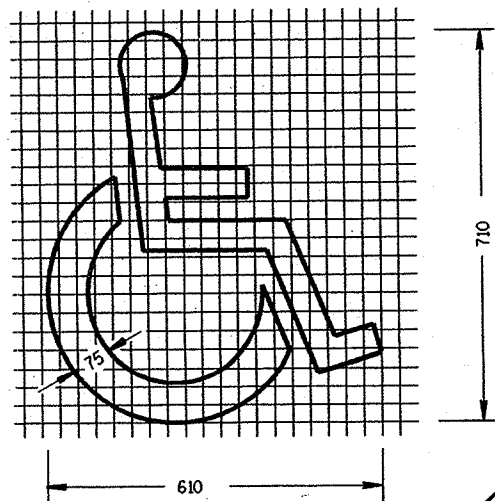
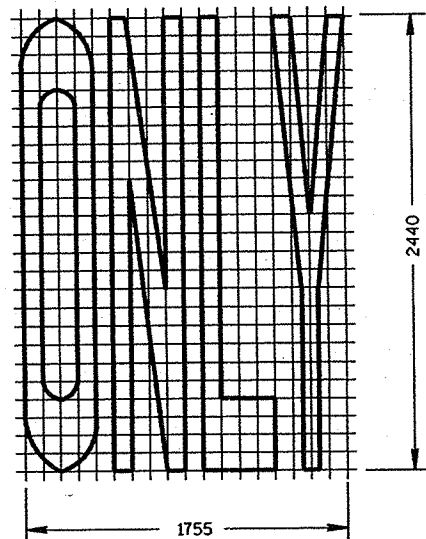
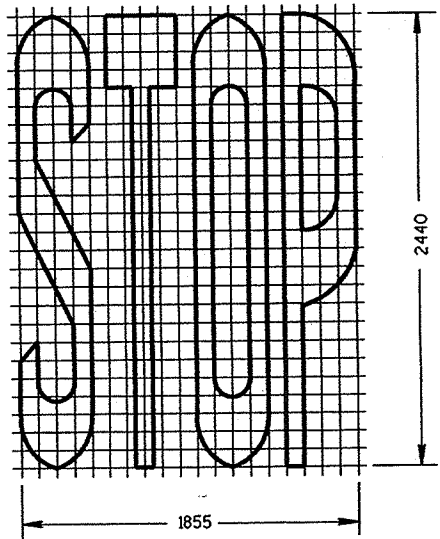
SECTION A-A
 SURFACE MOUNTED BASE



SECTION B-B
 ALTERNATIVE SHAPES

| | |
|--|--|
| FLEXIBLE TUBULAR MARKER POST, ANCHOR & BASES | |
| STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION | |
| APPROVED 8-7-95 DATE | <i>Christa J. Spang</i> for DIRECTOR, OFFICE OF TRAFFIC |
| FWMA | M |

S.D.D. 15 C 7-60
 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



GENERAL NOTES

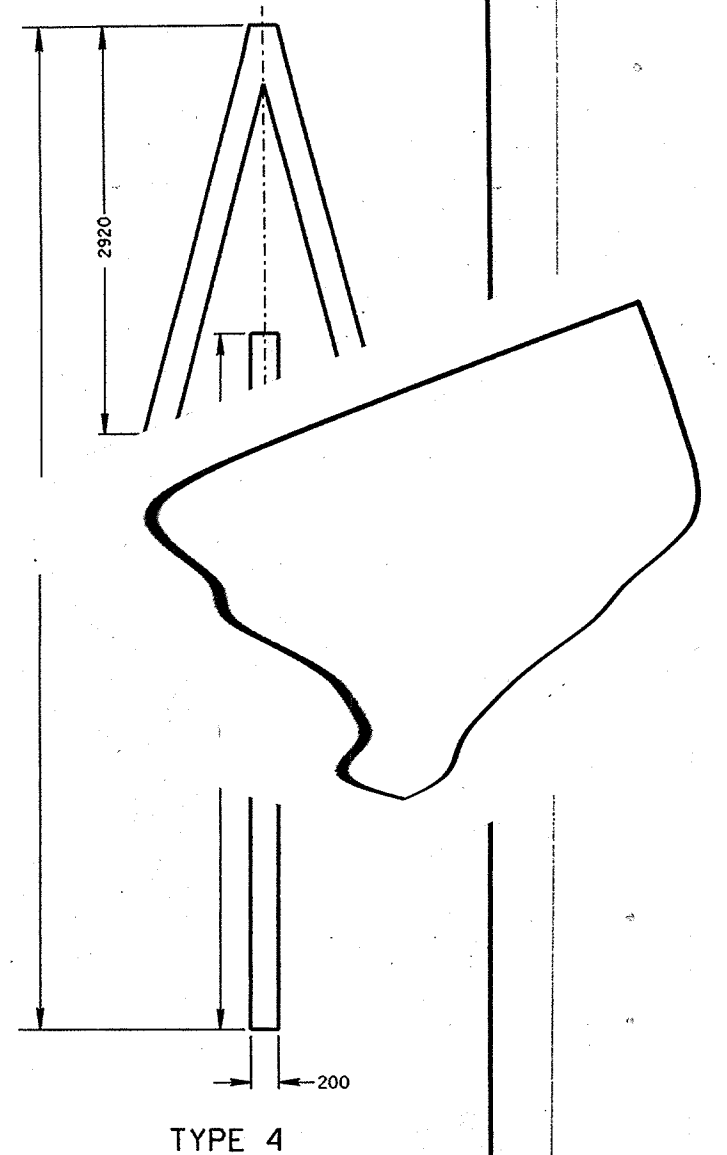
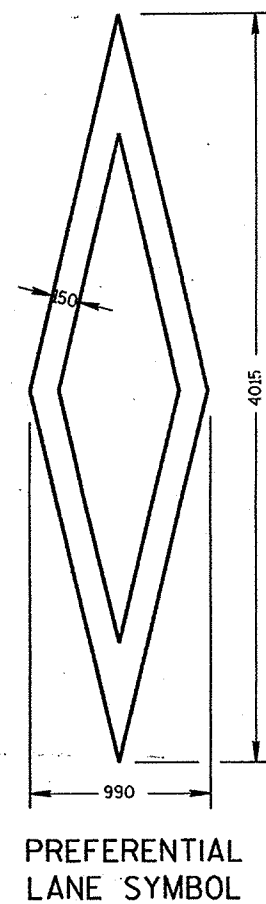
DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

ALL LETTERS AND SYMBOLS SHALL BE IN CONFORMANCE WITH REQUIREMENTS INCLUDED IN "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKING" BY THE FEDERAL HIGHWAY ADMINISTRATION. ALL LETTERS, ARROWS AND SYMBOLS SHALL BE WHITE AND REFLECTORIZED.

A DETAILED DRAWING OF THE HANDICAPPED PARKING SYMBOL IS ILLUSTRATED IN THE "STANDARD HIGHWAY SIGNS MANUAL" BY THE FEDERAL HIGHWAY ADMINISTRATION.

NOTE

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN.



PAVEMENT MARKING SYMBOLS

STATE OF WISCONSIN
 DEPARTMENT OF TRANSPORTATION

APPROVED

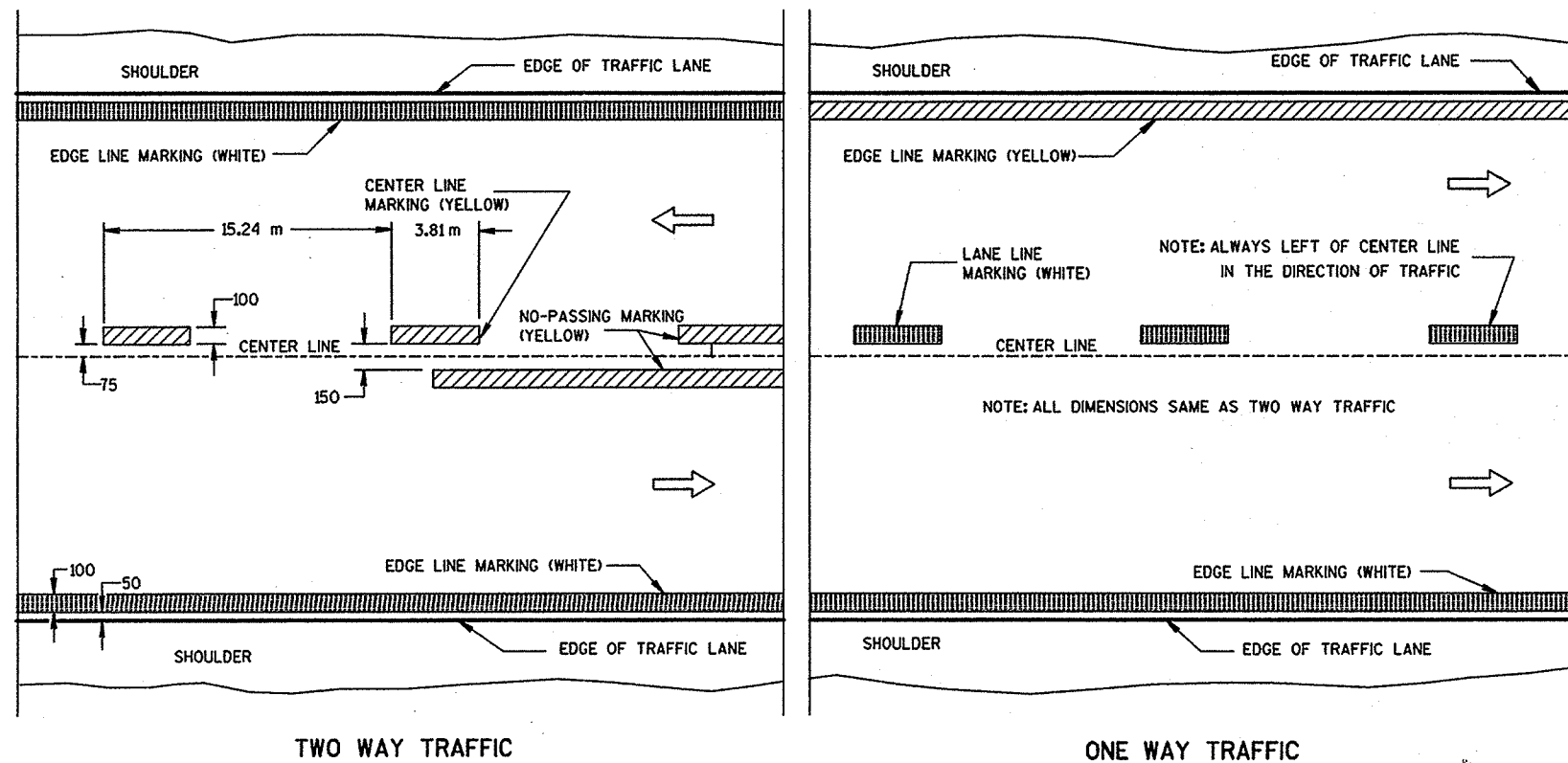
4-15-97
 DATE

Christa J. Spang
 for DIRECTOR, OFFICE OF TRAFFIC

FWA

M

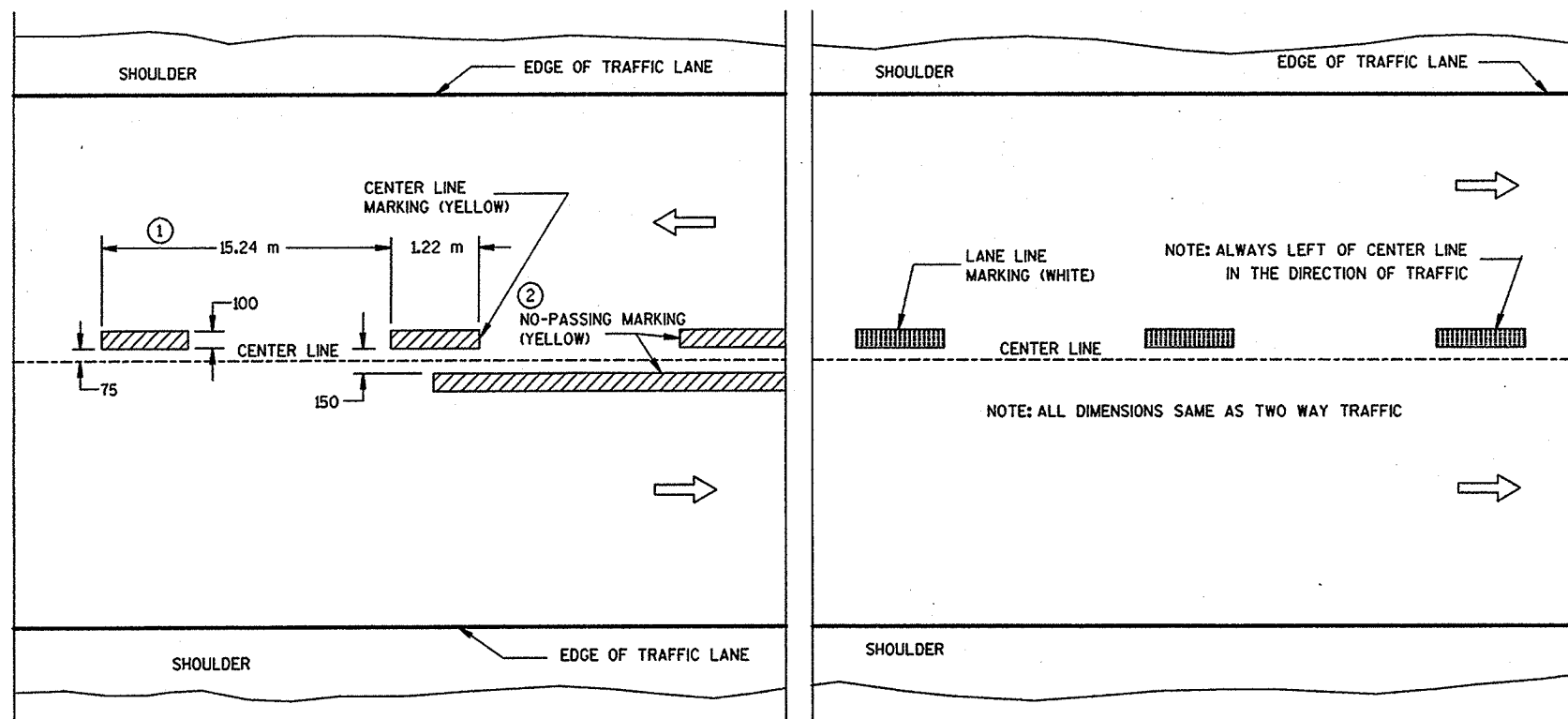
S.D.D. 15 C 8-8a LEVELS ON - 2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63



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

4-10-98
DATE

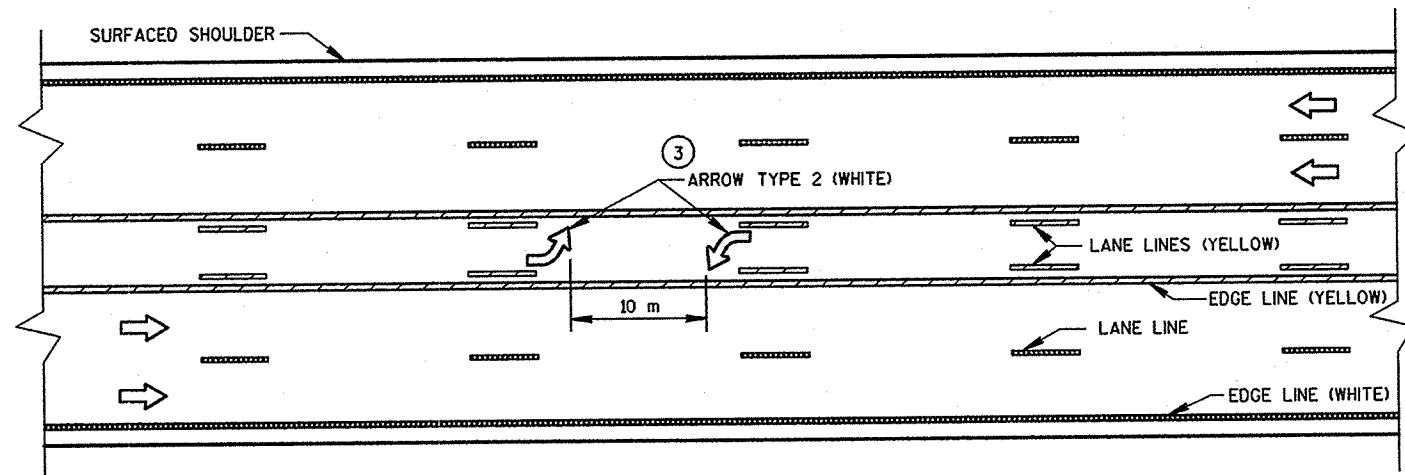
FHWA

Charles J. Spang
CHIEF SIGNS AND MARKING ENGINEER

M

S.D.D. 15 C 8-8d
 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

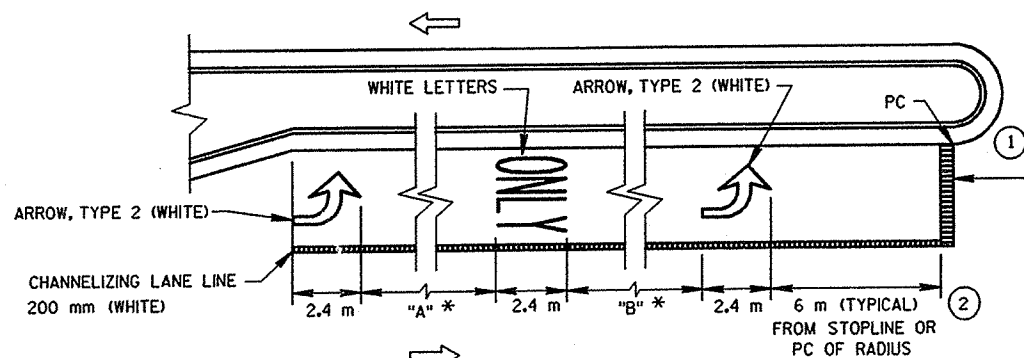
NOTE:
ARROW SYMBOL (→)
SHOWS DIRECTION OF TRAVEL



TWO WAY LEFT TURN LANE

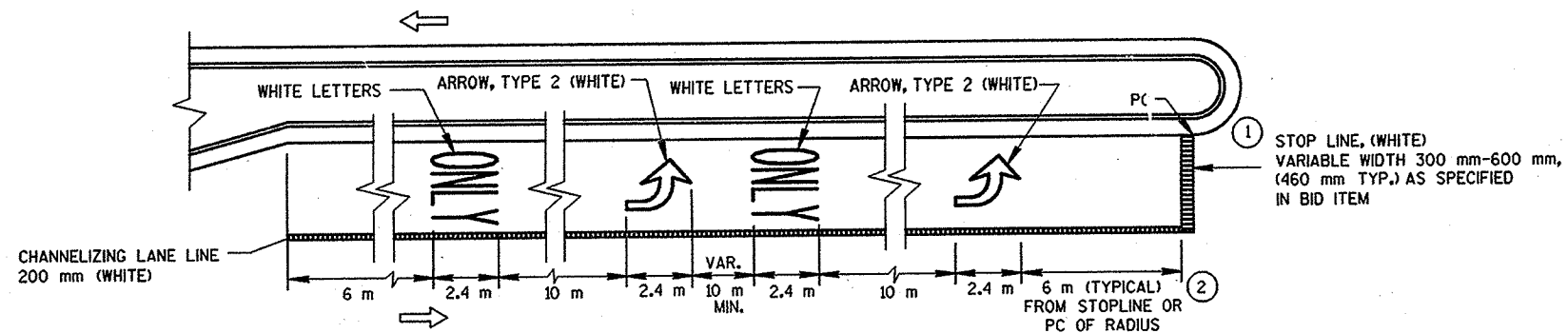
NOTES:

- ① STOP BAR IS REQUIRED ONLY WHEN SPECIFIED IN THE CONTRACT.
- ② DISTANCE MAY BE ADJUSTED TO ACCOMMODATE SHORT LEFT TURN LANES. AS APPROVED BY THE ENGINEER.
- ③ A SET OF ARROWS IS REQUIRED EVERY 120.0 m OR NEAR INTERSECTIONS OR DRIVEWAYS WITH TURNING TRAFFIC.

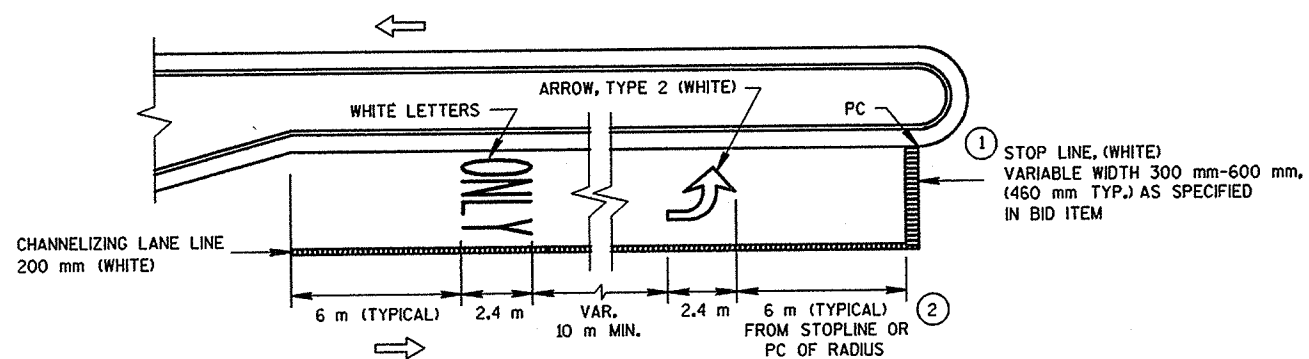


* VARIABLE, 10 m MIN.
"A" = "B" (TYPICAL)

LEFT TURN LANE
(LENGTH 35 m TO 50 m)



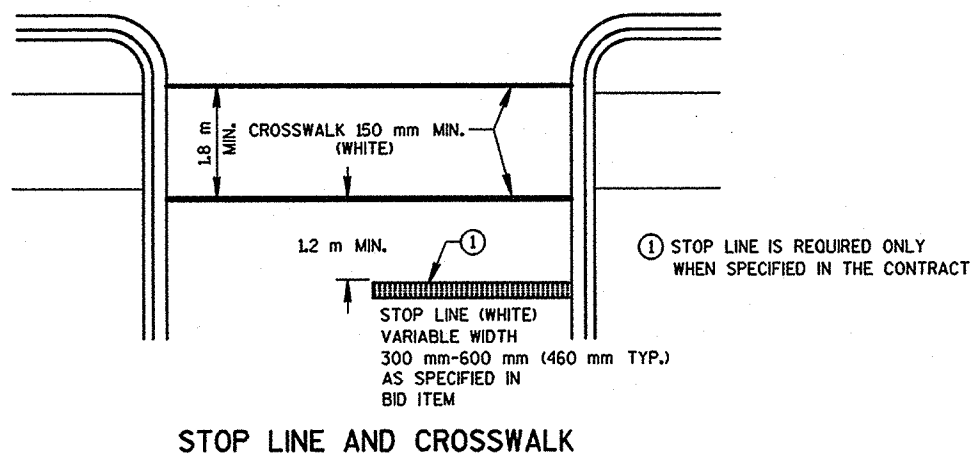
LEFT TURN LANE
(LENGTH OVER 50 m)



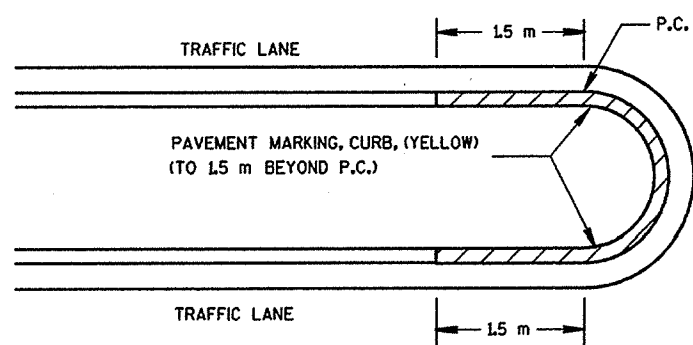
LEFT TURN LANE
(LENGTH UNDER 35 m)

| |
|--|
| PAVEMENT MARKING (LEFT TURN LANE) |
| STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION |

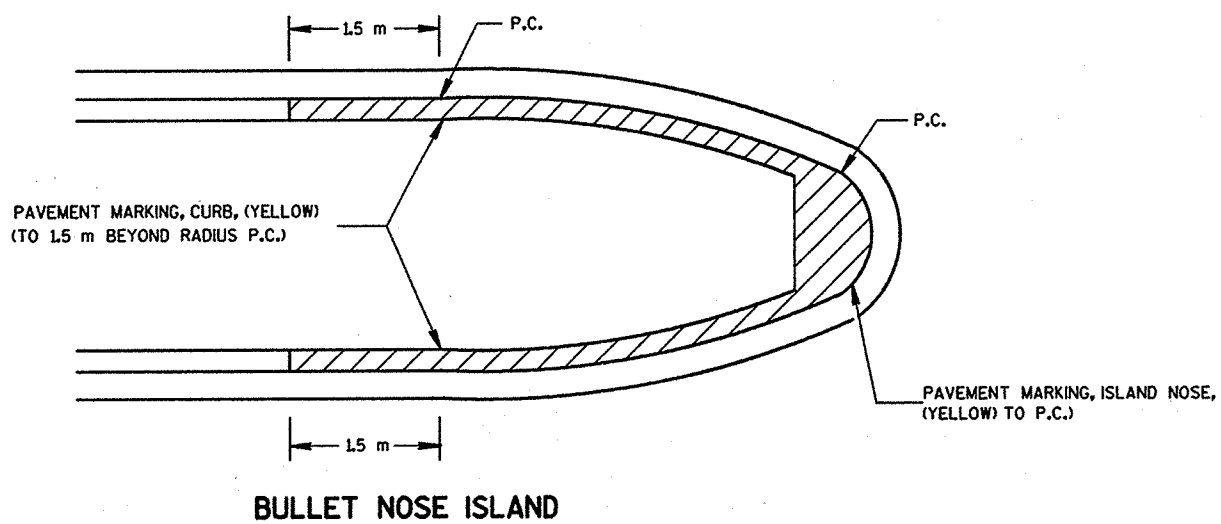
98-8 C 51 8-8e
 LEVELS ON - 2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63



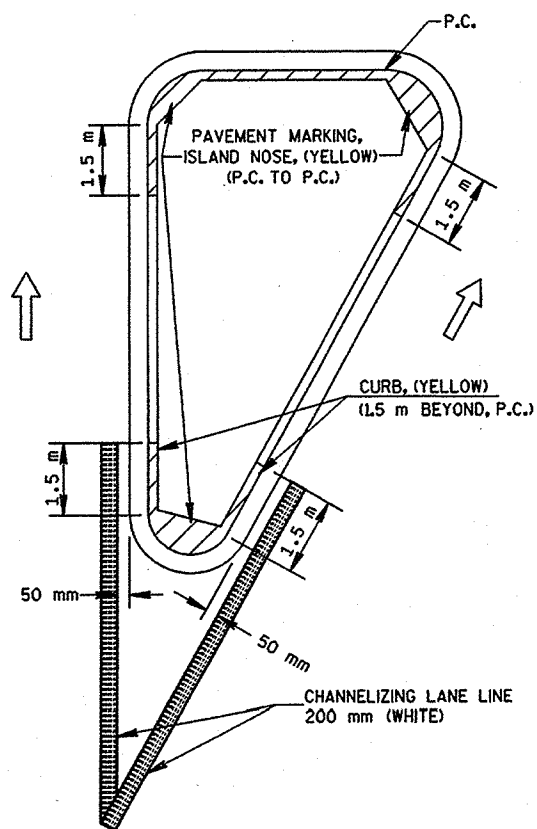
STOP LINE AND CROSSWALK



MEDIAN CURB

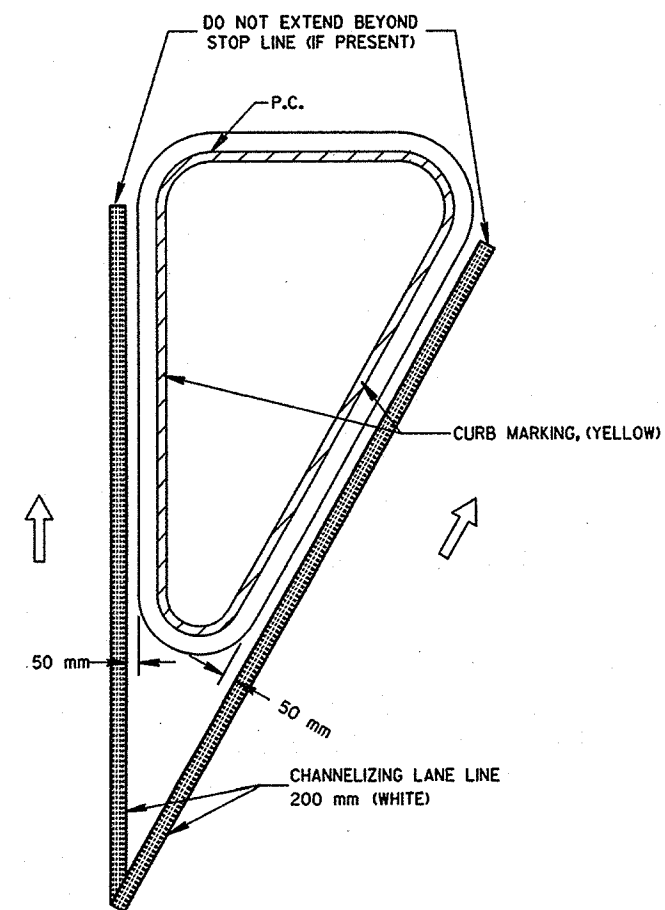


BULLET NOSE ISLAND



LARGE ISLAND

(GREATER THAN 15.0 m PERIMETER OR ANY SIDE
 GREATER THAN 8.0 m BETWEEN CURVES)



SMALL ISLAND

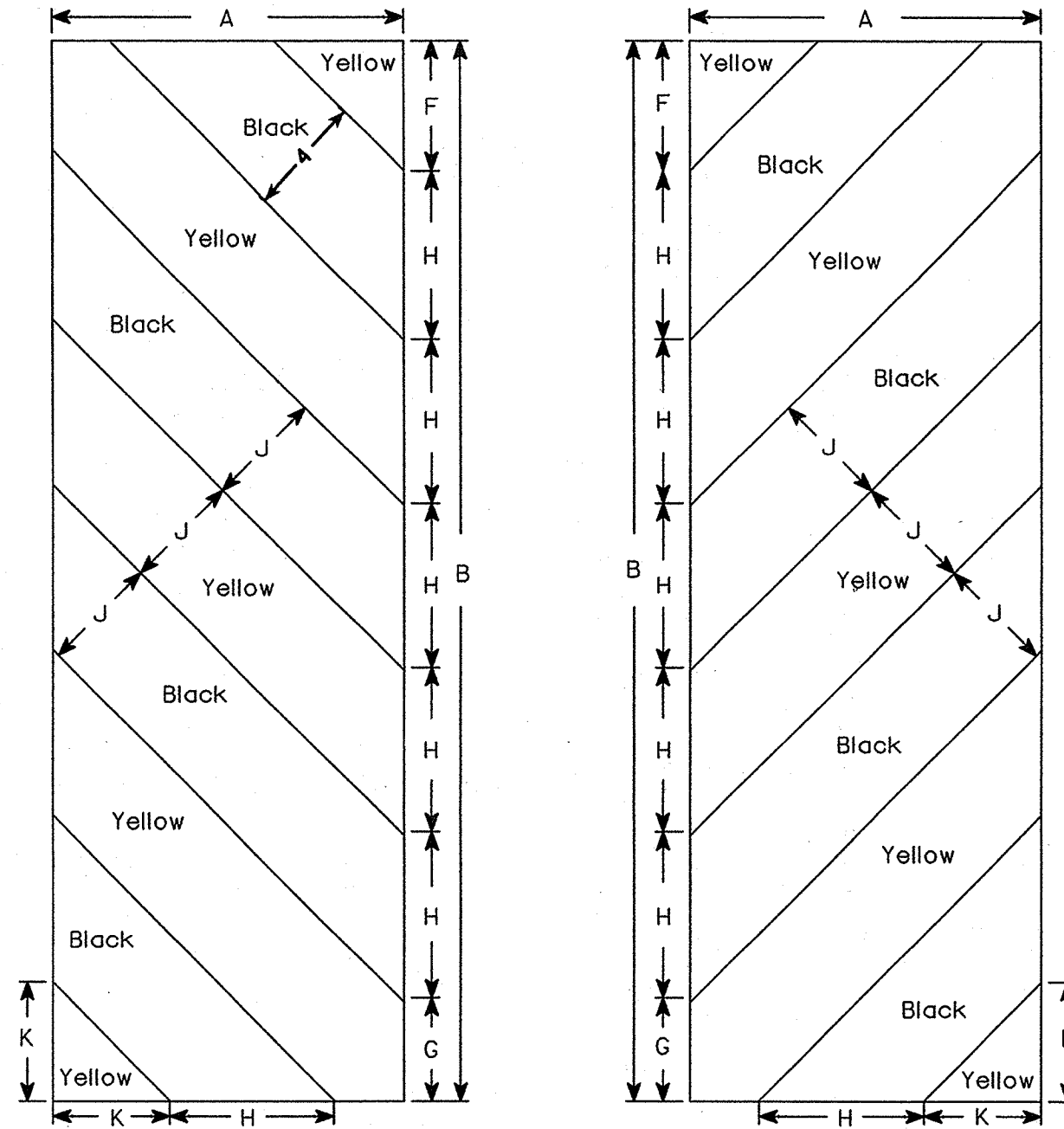
(LESS THAN 15.0 m PERIMETER OR ANY SIDE
 LESS THAN 8.0 m BETWEEN CURVES)

NOTE:
 ARROW SYMBOL (→)
 SHOWS DIRECTION OF TRAVEL

| | |
|---|---|
| PAVEMENT MARKING (ISLANDS, STOP LINE & CROSS WALK) | |
| STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION | |
| APPROVED 4-10-98 DATE | <i>Charles J. Spang</i> CHIEF SIGNS AND MARKING ENGINEER |
| FWA | M |

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.



W5-52L

W5-52R

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 m ² |
|------|----|----|---|---|---|-------|-------|-------|-----|---|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|------|--------------|---------------------|
| 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

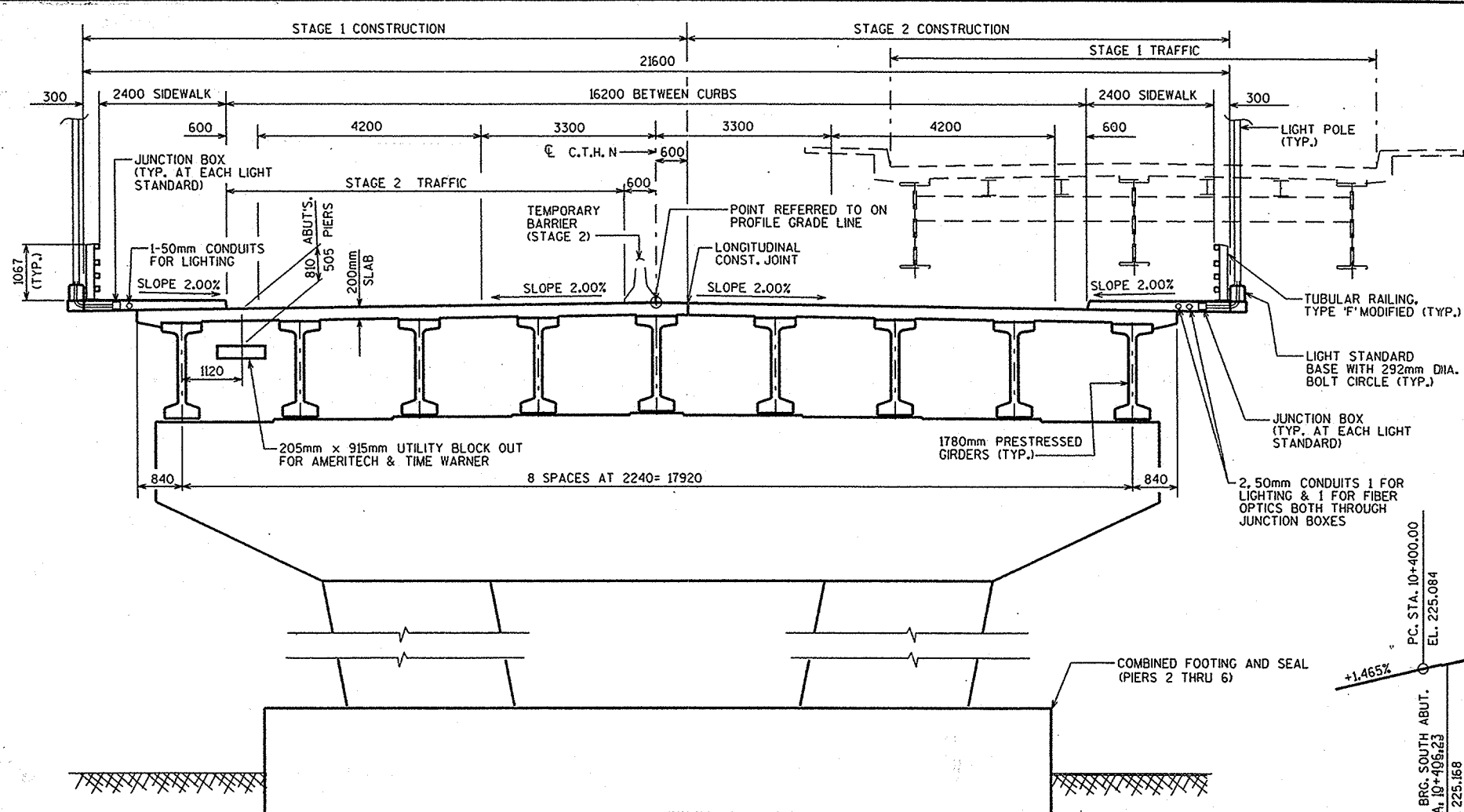
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Christa J. Spang*
State Traffic Engineer

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

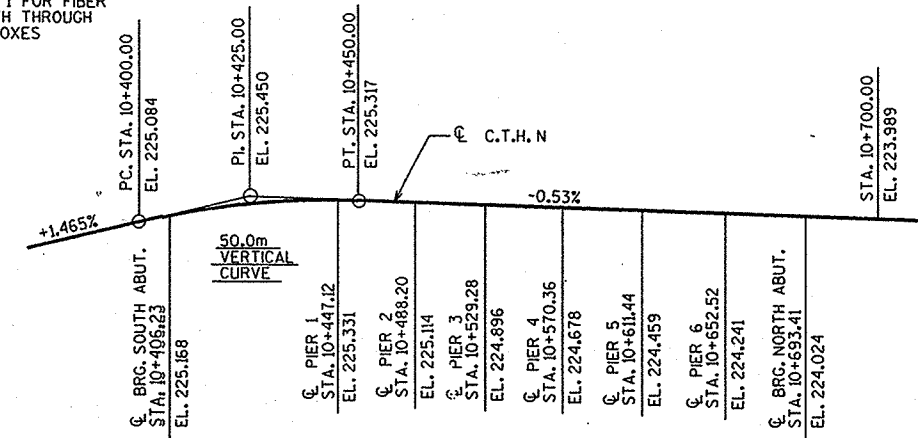
WISDOT/CADS METRIC SHEET M

FILE NAME: tr_stdplate w552.dgn
LEVELS ON: 2, 5, 10, 63



GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.
 BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 50 mm CLEAR UNLESS OTHERWISE SHOWN OR NOTED.
 ALL REINFORCING BARS ARE METRIC AND THE FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE
 ALL DIMENSIONS MILLIMETERS (mm) UNLESS OTHERWISE NOTED.
 ALL STATIONS AND ALL ELEVATIONS ARE METERS (m).
 ELASTOMERIC BEARING PADS NEED NOT BE INDIVIDUALLY MOLDED PROVIDED THE CUT EDGES ARE SMOOTH AND TRUE.
 THE EXISTING GROUND LINE (STREAM BED) SHALL BE USED AS THE UPPER LIMITS OF EXCAVATION AT THE PIERS.
 AT THE BACKFACE OF ABUTMENT ALL VOLUME WHICH CANNOT BE IN PLACE BEFORE ABUTMENT CONSTRUCTION AND NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL.
 THE GRADATION OF THE STRUCTURE BACKFILL SHALL MEET THE REQUIREMENTS OF SECTION 209.2.2 OF THE STANDARD SPECIFICATIONS FOR GRADE 1 MATERIAL.
 CONCRETE INSERTS TO BE FURNISHED BY THE UTILITY COMPANY AND PLACED BY THE CONTRACTOR. COST OF PLACING INSERTS SHALL BE INCLUDED IN THE BID PRICE FOR CONCRETE MASONRY.
 PIERS TO BE CONSTRUCTED UNDER STAGE 1 CONSTRUCTION.

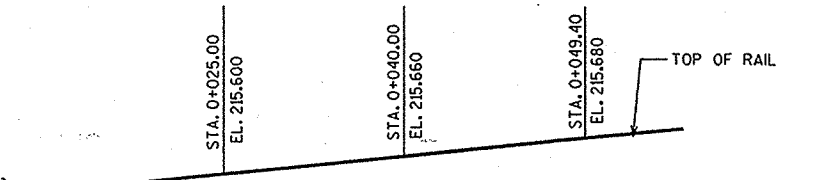


CROSS SECTION THRU ROADWAY LOOKING NORTH

TOTAL ESTIMATED QUANTITIES

| BID ITEMS | UNIT | SUPER. | SOUTH ABUT. | NORTH ABUT. | PIER 1 | PIER 2 | PIER 3 | PIER 4 | PIER 5 | PIER 6 | TOTALS |
|--|----------------|--------|-------------|-------------|--------|--------|--------|--------|--------|--------|---------|
| REMOVING OLD BRIDGE, STA. 10+549.82 | L.S. | | | | | | | | | | 1 |
| EXCAVATION FOR STRUCTURES, BRIDGES, B-44-187 | L.S. | | | | | | | | | | 1 |
| STRUCTURE BACKFILL | m ³ | | 433 | 433 | | | | | | | 866 |
| COFFERDAMS, STRUCTURE B-44-187 | L.S. | | | | | | | | | | 1 |
| CONCRETE MASONRY, BRIDGES | m ³ | 1758 | 118 | 118 | 140 | 109 | 112 | 109 | 109 | 105 | 2658 |
| CONCRETE MASONRY, SEAL | m ³ | | | | | 151 | 151 | 151 | 151 | 151 | 755 |
| PROTECTIVE SURFACE TREATMENT | m ² | 6358 | | | | | | | | | 6358 |
| MODULAR EXPANSION DEVICE, STRUCTURE B-44-187 | L.S. | | | | | | | | | | 1 |
| PRESTRESSED GIRDER, I TYPE, 1780 mm | m | 2583 | | | | | | | | | 2583 |
| HIGH-STRENGTH BAR STEEL REINFORCEMENT, BRIDGES | kg | | 2620 | 2620 | 16130 | 15470 | 15740 | 15470 | 15470 | 15170 | 98690 |
| COATED HIGH-STRENGTH BAR STEEL REINFORCEMENT, BRIDGES | kg | 236480 | 1390 | 1390 | | | | | | | 239260 |
| NON-LAMINATED ELASTOMERIC BEARING PADS | EACH | 54 | | | | | | | | | 54 |
| EXPANSION BEARING ASSEMBLIES, STRUCTURE B-44-187 | EACH | 18 | | | | | | | | | 18 |
| STEEL PILING, DELIVERED AND DRIVEN, HP 250 mm x 62 kg/m | m | | 300 | 275 | | | | | | | 575 |
| TUBULAR RAILING, TYPE F, MODIFIED(4), STRUCTURE B-44-187 | L.S. | | | | | | | | | | 1 |
| FLOOR DRAINS, TYPE GC | EACH | 12 | | | | | | | | | 12 |
| RUBBERIZED MEMBRANE WATERPROOFING | m ² | | 12 | 12 | | | | | | | 24 |
| SLOPE PAVING, CRUSHED AGGREGATE | m ² | | 220 | 330 | | | | | | | 550 |
| HEAVY RIPRAP | m ³ | | | 264 | 8 | | | | | | 272 |
| PIPE UNDERDRAIN, 150 mm | m | | 20 | 20 | | | | | | | 40 |
| PIPE UNDERDRAIN, UNPERFORATED, 150 mm | m | | 3 | 3 | | | | | | | 6 |
| GEOTEXTILE FABRIC, TYPE HR | m ² | | | 440 | 13 | | | | | | 453 |
| GEOTEXTILE FABRIC, TYPE DF | m ² | | 45 | 45 | | | | | | | 90 |
| ANCHOR ASSEMBLIES FOR LIGHT POLES | EACH | 16 | | | | | | | | | 16 |
| STEEL DIAPHRAGMS, STRUCTURE B-44-187 | EACH | 112 | | | | | | | | | 112 |
| UNDERWATER FOUNDATION INSPECTION | EACH | | | | 1 | 1 | 1 | 1 | 1 | 1 | 5 |
| PILE POINTS | EACH | | 25 | 25 | | | | | | | 50 |
| ANTI-GRAFFITI COATING, STRUCTURE B-44-184 | m ² | 227 | 78 | 78 | 105 | | | | | | 488 |
| NONMETALLIC CONDUIT, SCHEDULE 40, 50mm | m | 885 | | | | | | | | | 885 |
| JUNCTION BOXES 300 X 200 X 150mm | EACH | 16 | | | | | | | | | 16 |
| OMP, HIGH PERFORMANCE READY MIXED CONCRETE FOR BRIDGES | m ³ | 1758 | 118 | 118 | 140 | 109 | 112 | 109 | 109 | 105 | 2658 |
| OMP, INCENTIVE FOR CONCRETE MASONRY COMPRESSIVE STRENGTH, B-44-187 | L.S. | | | | | | | | | | 1 |
| ELECTRICAL WIRE, LIGHTING, NO.2 | m | 1875 | | | | | | | | | 1875 |
| NON-BID ITEMS | | | | | | | | | | | |
| FILLER | SIZE | | | | | | | | | | 13 & 19 |

PROFILE GRADE LINE C.T.H.N.

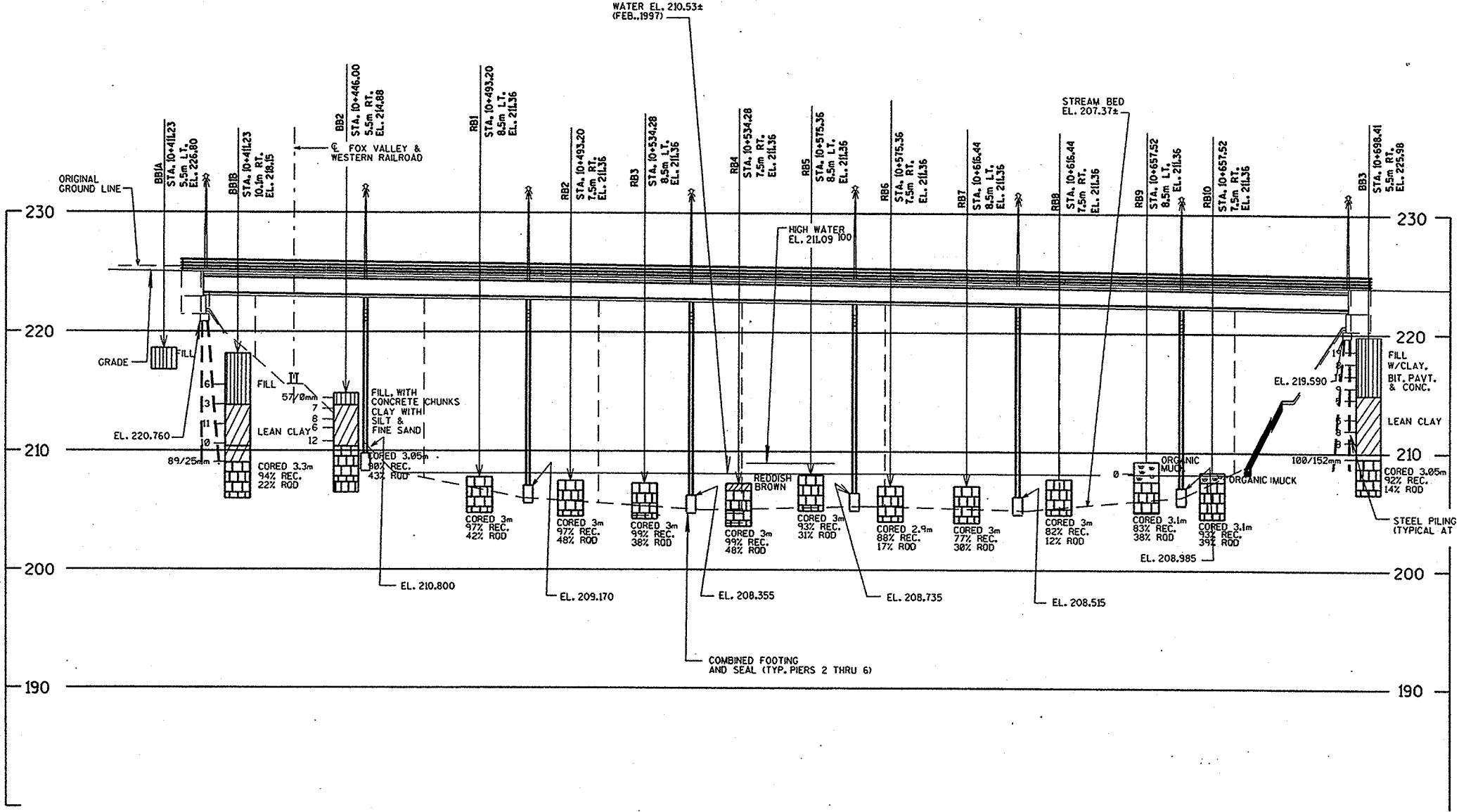
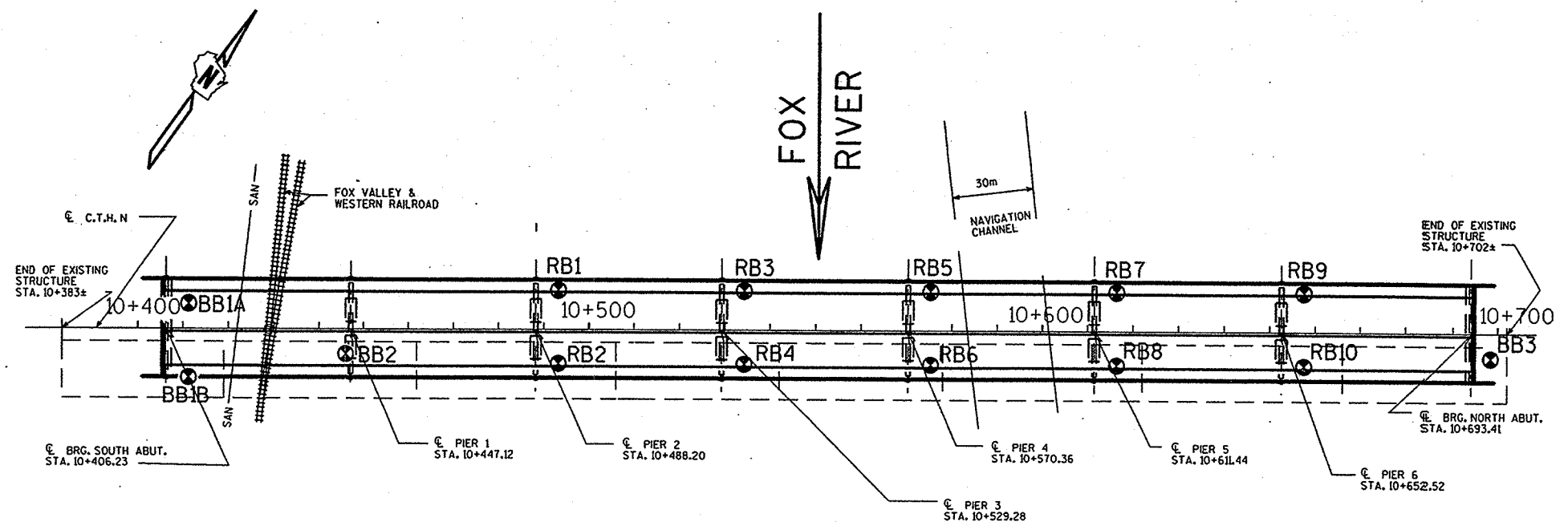


PROFILE GRADE LINE FOX VALLEY & WESTERN RAILROAD

| | | | |
|---|------|----------|-----|
| NO. | DATE | REVISION | BY |
| STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION | | | |
| STRUCTURE B-44-187 | | | |
| CONST. SPEC. | 1996 | DRAWN BY | JHG |
| PLANS CK'D. | | | |
| CROSS SECTION & QUANTITIES | | SHEET 2 | |

FILE=PREPLAN.DGN
SCALE = 50

CTH "N" OVER THE FOX RIVER
VILLAGES OF KIMBRELY & LITTLE CHUTE



| | |
|----------------------|-----------|
| STATE PROJECT NUMBER | SHEET NO. |
| 4676-03-71 | 8.3 |

ABBREVIATIONS

F—Fine M—Medium C—Coarse
Ws—Weathered So—Sound

MATERIAL SYMBOLS

| | | |
|---------|------|--------------|
| Topsoil | Silt | Sandstone |
| Sand | Peat | Limestone |
| Gravel | Clay | Igneous Rock |

LEGEND OF PROBING

Probing No. Sta. Elevation

95/152=95 Blows for 152mm Penetration Probing taken with a 159.1Kg Wt. Felling 457mm on a 51mm O.D. Point.

7 Average Blows Per 305mm Refusal 95/152

LEGEND OF BORING

Unconfined Strength Kg/cm² → 7.7

Blows Per 305mm Using 63.6 Kg Wt. Felling 762mm

Wash Sample

Shelby Tube—S.T.

Ground Water Elevation

No Ground Water Observed Above This Elevation

Boring No. Sta. Elev.

Sandy Gravel
F Boulders or Cobbles
Sand
Silty Clay
So
Limestone

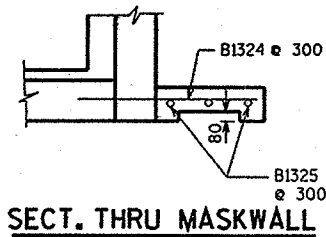
Unless otherwise specified, the blows per 305mm at the locations indicated are based on driving a 51mm O.D. x 35mm I.D. split spoon sampler with a 63.6Kg hammer having a free fall of 762mm. The blow count is taken in undisturbed soil immediately below a cased or open hole eliminating side friction on the drive pipe.

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

To obtain relative data concerning the character of material in and upon which the foundation might be built, borings and/or soundings were made at points approximately as indicated on this drawing. The data presented herein represents the findings of the subsurface explorations made. However, because the depths investigated are limited and the area of the borings and/or soundings is very small in relation to the entire area, the Division of Highways does not warrant conditions below the depths investigated or that the classification of material encountered in these investigations is necessarily typical of the entire site.

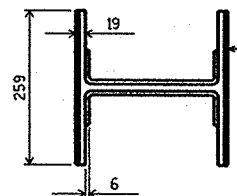
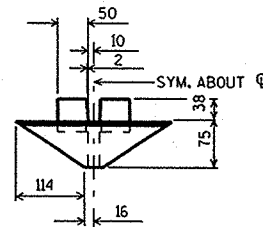
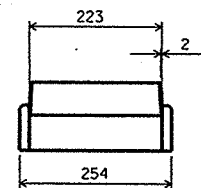
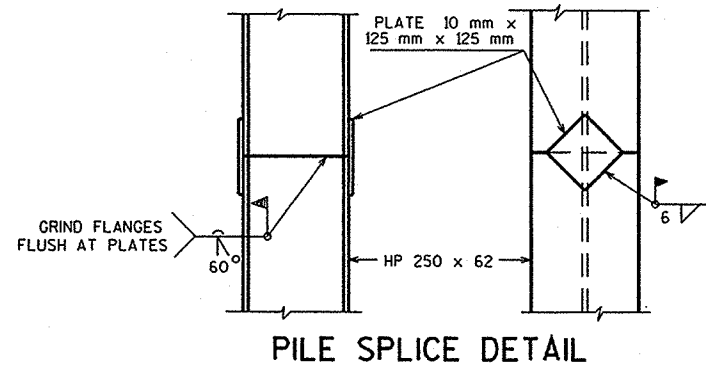
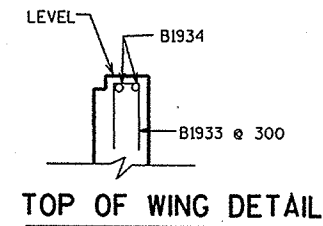
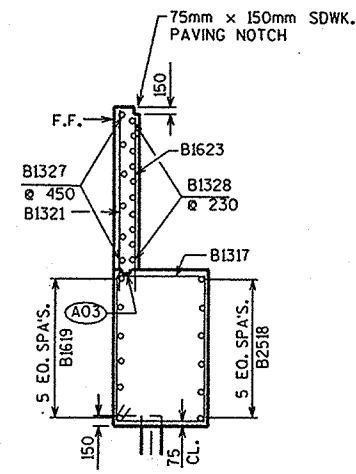
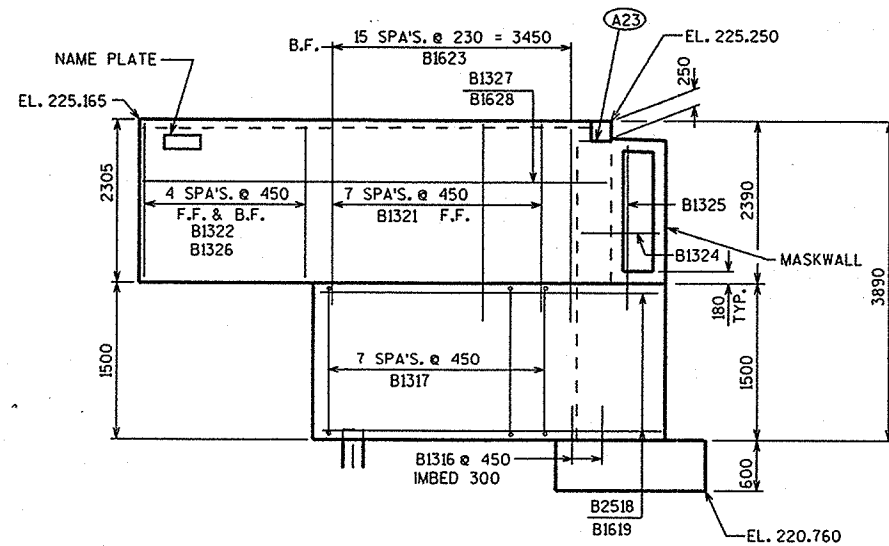
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|---|------|--------------|-----------------|
| NO. | DATE | REVISION | BY |
| STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION | | | |
| STRUCTURE B-44-187 | | | |
| CONST. SPEC. | 1996 | DRAWN BY JHG | PLANS CK'D. KTN |
| SUBSURFACE EXPLORATION | | | SHEET 3 |

FILE= 187SOILS.DGN
SCALE=



(A03) OPTIONAL CONST. JOINT: KEYWAY FORMED BY SURFACED BEVELED 38 mm x 140 mm, 19 mm "V" GROOVE @ F.F. IF JOINT IS USED.

(A23) CONSTRUCTION JOINT: POUR CONCRETE ABOVE THIS JOINT AFTER SUPERSTRUCTURE CONCRETE IS IN PLACE.



9mm WELD, 510mm LONG BETW. POINT & PILE FLG.

POINT NOTES

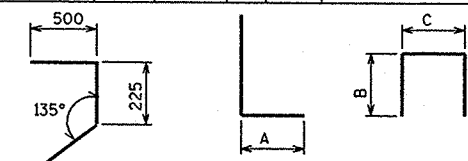
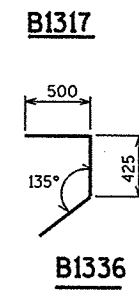
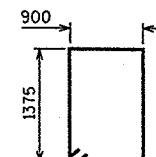
1. MATERIAL = CAST STEEL (ASTM A-27-84-65-35)
2. ALL FILLETS = 9mm
3. ALL WELDS BETW. PILE & POINT TO BE IN ACCORDANCE WITH AWS SPEC'S. WELD FLANGES TO FITTING ON OUTSIDE FACES.
4. CONTRACTOR MAY USE AN ALTERNATE DESIGN UPON APPROVAL OF THE ENGINEER.

PILE POINT DETAIL

BILL OF BARS

NOTE: THE FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

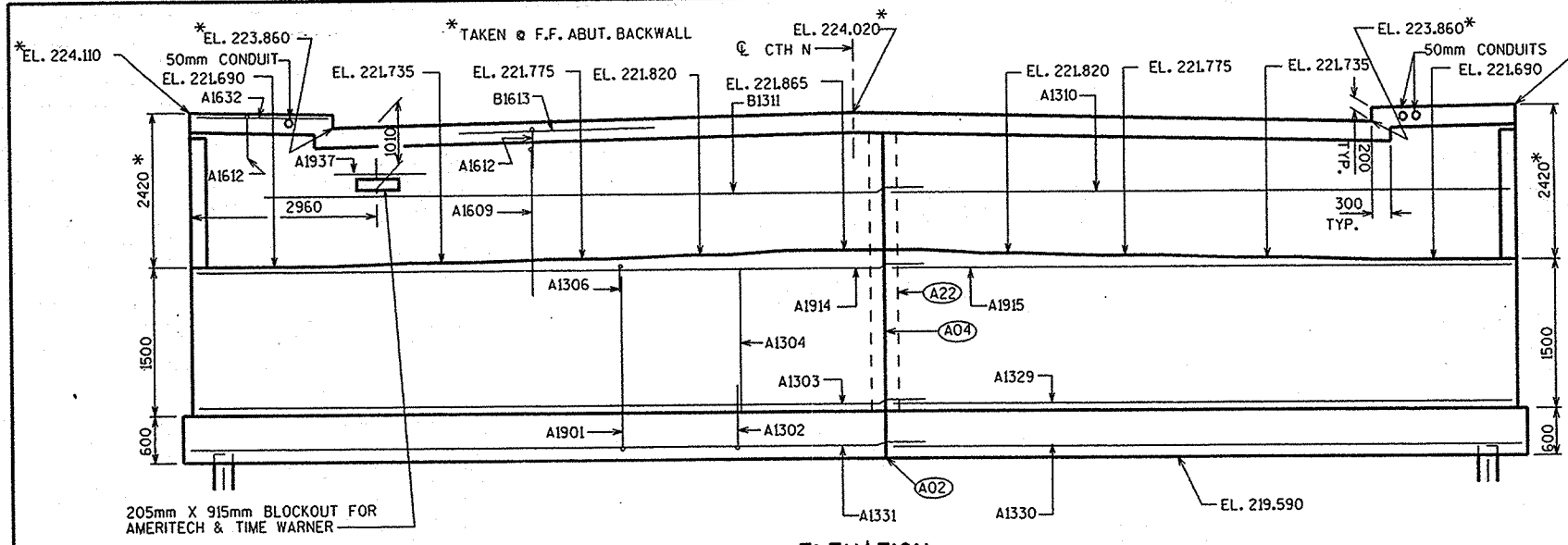
| BAR MARK | COY | NO. REQ'D | LENGTH | BENT | BAR SERIES | LOCATION |
|----------|-----|-----------|--------|------|------------|-----------------------------------|
| B1901 | | 72 | 3700 | X | | FTG. DOWEL B.F. BODY |
| B1302 | | 72 | 1080 | X | | FTG. DOWEL F.F. BODY |
| B1303 | | 4 | 11950 | | | HORIZ. F.F. BODY |
| B1304 | | 72 | 1425 | | | VERT. F.F. BODY |
| B1905 | | 6 | 5025 | | | HORIZ. B.F. BODY |
| B1306 | | 72 | 2100 | X | | TOP BODY |
| B2907 | | 12 | 6000 | | | HORIZ. B.F. BODY |
| B1908 | | 6 | 7150 | | | HORIZ. B.F. BODY |
| B1609 | X | 72 | 5300 | X | | VERT. BACKWALL BODY |
| B1310 | X | 12 | 10150 | | | HORIZ. BODY |
| B1311 | X | 12 | 12050 | | | HORIZ. BODY |
| B1612 | X | 72 | 1520 | X | | VERT. PAVING BLOCK BODY |
| B1613 | X | 24 | 2290 | | | HORIZ. PAVING BLOCK BODY |
| B1914 | | 3 | 12400 | | | HORIZ. BODY |
| B1915 | | 3 | 10125 | | | HORIZ. BODY |
| B1316 | | 4 | 600 | | | FTG. DOWELS WINGS |
| B1317 | | 16 | 4730 | X | | STIRRUP WINGS |
| B2518 | | 12 | 4700 | | | HORIZ. B.F. WINGS |
| B1619 | | 12 | 4700 | | | HORIZ. F.F. WINGS |
| B1320 | X | 6 | 2300 | | | HORIZ. BODY |
| B1321 | | 16 | 2670 | | | VERT F.F. WINGS |
| B1322 | | 10 | 2205 | | | VERT F.F. WINGS |
| B1623 | | 32 | 2520 | | | VERT B.F. WINGS |
| B1324 | | 16 | 1110 | | | HORIZ. MASKWALL EAST & WEST SIDES |
| B1325 | | 6 | 2390 | | | VERT MASKWALL EAST & WEST SIDES |
| B1326 | | 10 | 2055 | | | VERT B.F. WINGS |
| B1327 | | 12 | 5900 | | | HORIZ. F.F. WINGS |
| B1328 | | 20 | 5900 | | | HORIZ. B.F. WINGS |
| B1329 | | 4 | 10050 | | | HORIZ. F.F. BODY |
| B1330 | | 5 | 10300 | | | HORIZ. FTG. BODY |
| B1331 | | 5 | 11950 | | | HORIZ. FTG. BODY |
| B1632 | X | 6 | 2600 | | | HORIZ. PAV. BLOCK @ SDWK. BODY |
| B1933 | X | 40 | 1295 | X | | VERT. - RAIL WINGS |
| B1934 | X | 4 | 5900 | | | HORIZ. - RAIL WINGS |
| B1335 | X | 38 | 1375 | X | | CORBEL FOR PAVING NOTCH RDWY. |
| B1336 | X | 10 | 1575 | X | | CORBEL FOR PAVING NOTCH SDWK. |
| B1937 | X | 3 | 1550 | X | | UTILITY BLOCKOUT HORIZ. BODY |



| MARK | A | B | C |
|-------|------|------|------|
| B1901 | 1850 | --- | --- |
| B1302 | 210 | --- | --- |
| B1306 | --- | 480 | 1200 |
| B1609 | --- | 2490 | 400 |
| B1612 | --- | 600 | 400 |
| B1933 | --- | 600 | 195 |

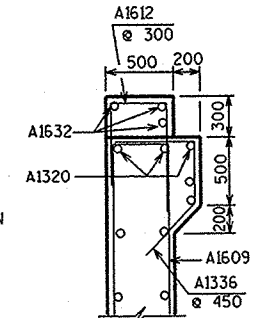
| NO. | DATE | REVISION | BY |
|--|------|-------------|---------|
| STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS | | | |
| STRUCTURE B-44-187 | | | |
| CONST. SPEC. | 1996 | DRAWN BY | JHG |
| | | PLANS CK'D. | KTN |
| SOUTH ABUTMENT DETAILS | | | SHEET 5 |

FILE= 187ABUTSD.DGN
SCALE = 50

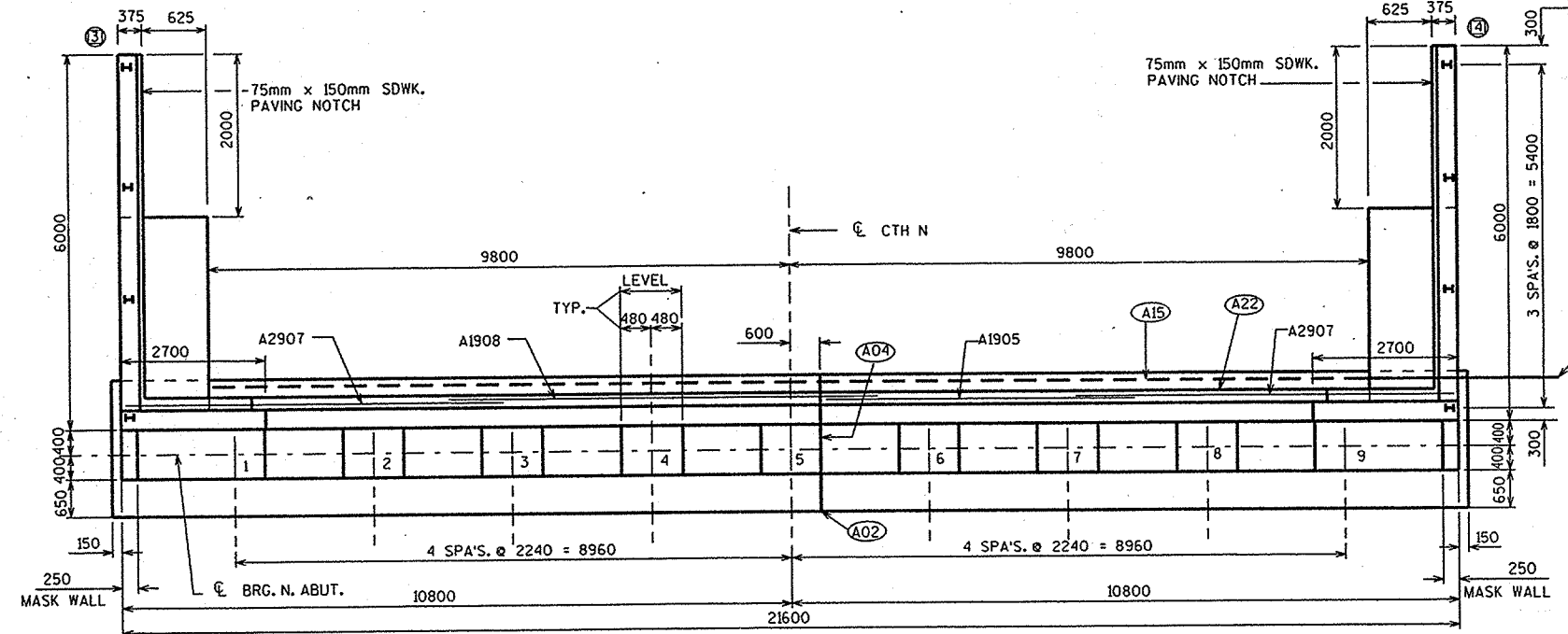


ELEVATION
LOOKING NORTH

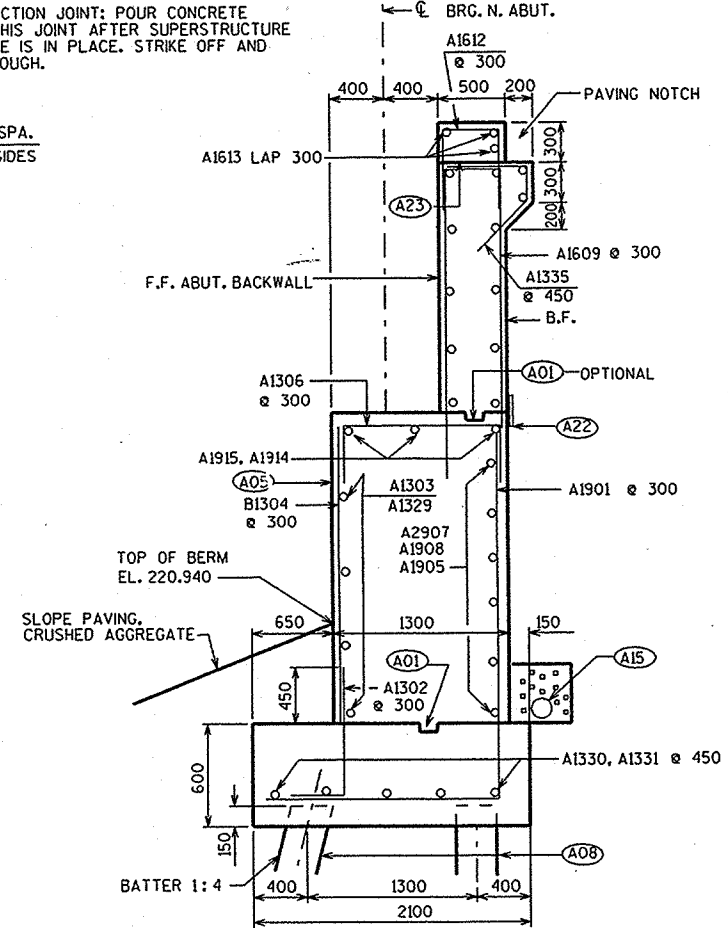
- (A01) CONSTRUCTION JOINT: KEYWAY FORMED BY A SURFACED, BEVELED 38 mm x 140 mm
- (A02) FOOTING CONST. JOINT
- (A04) VERT. CONSTRUCTION JOINT: KEYWAY FORMED BY A SURFACED BEVELED 38 mm x 184 mm, (19 mm "V" GROOVE @ THE FRONT FACE) (R.M.W. @ BACKFACE)
- (A08) SUPPORT ABUTMENT ON HP 250 x 62 STEEL PILING, ESTIMATED 11m LONG, & DRIVEN TO A MIN. BRG. VALUE OF 490 kN PER PILE. PILE POINTS REQ'D.
- (A15) PIPE UNDERDRAIN, 150mm (SLOPE TO DRAIN) ENCLOSED IN 450 X 450 AREA OF SIZE 1 COARSE AGGREGATE (INCLUDED IN UNDERDRAIN BID ITEM) WRAPPED IN GEOTEXTILE FABRIC, TYPE DF
- (A16) PIPE UNDERDRAIN, 150 mm, UNPERFORATED, TO SUITABLE DRAINAGE.
- (A22) 457 mm (RMW) RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZ. & VERT. JOINTS AT BACKFACE.
- (A23) CONSTRUCTION JOINT: POUR CONCRETE ABOVE THIS JOINT AFTER SUPERSTRUCTURE CONCRETE IS IN PLACE. STRIKE OFF AND LEAVE ROUGH.



**PAVING NOTCH
DETAIL AT SDWK.**

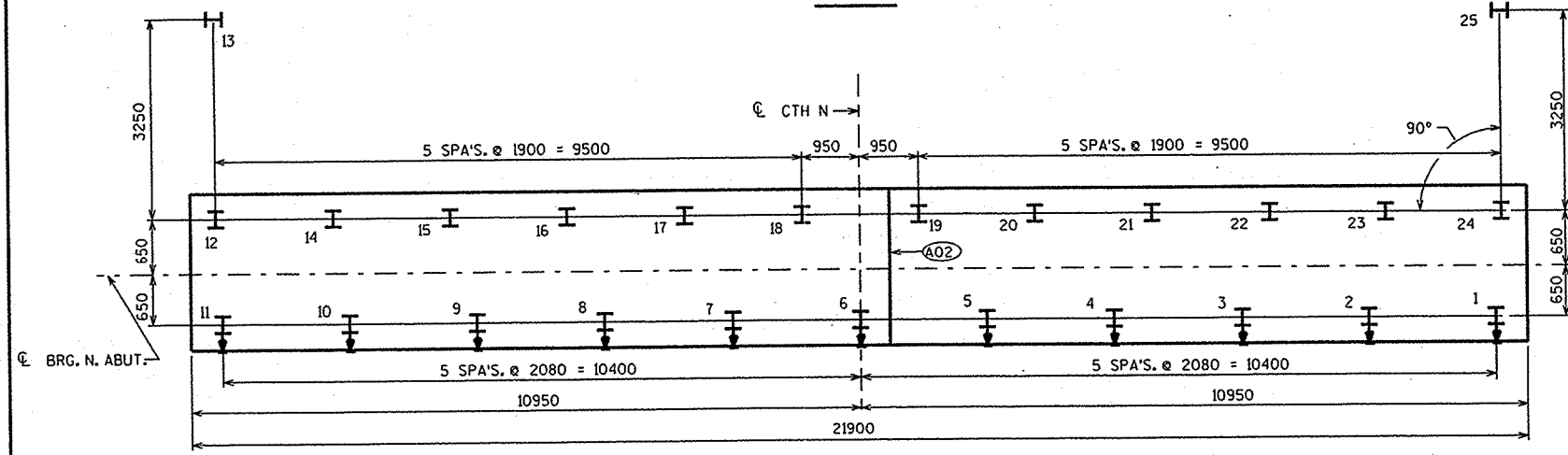


PLAN



SECTION THRU BODY

HORIZ. BARS SHOWN IN THIS SECTION NOT OTHERWISE IDENTIFIED ARE A1310 OR A1311 BARS.

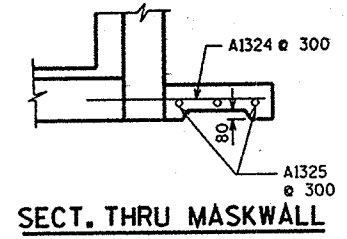


PILE PLAN

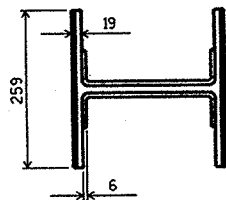
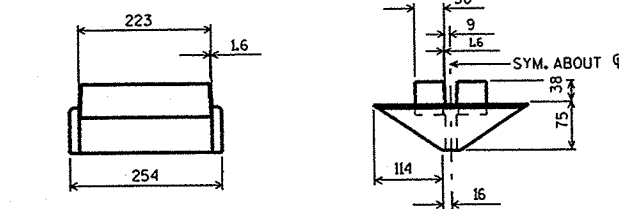
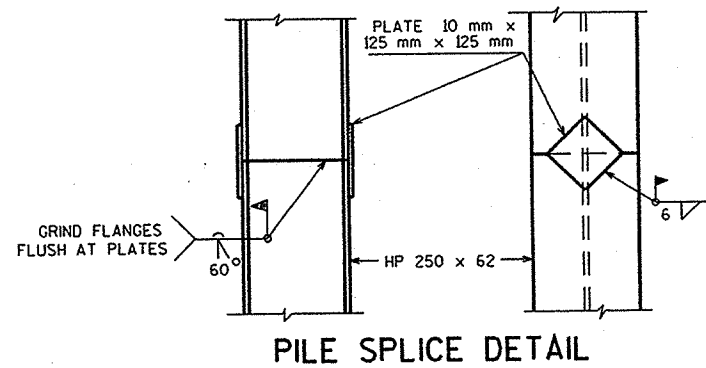
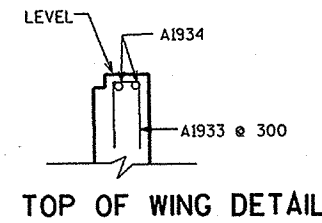
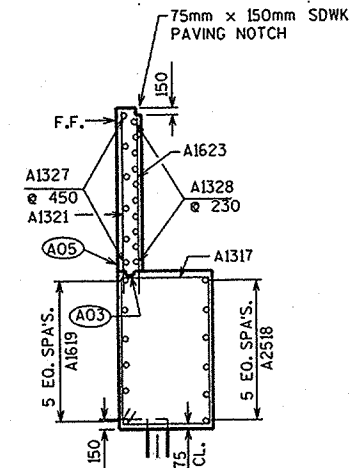
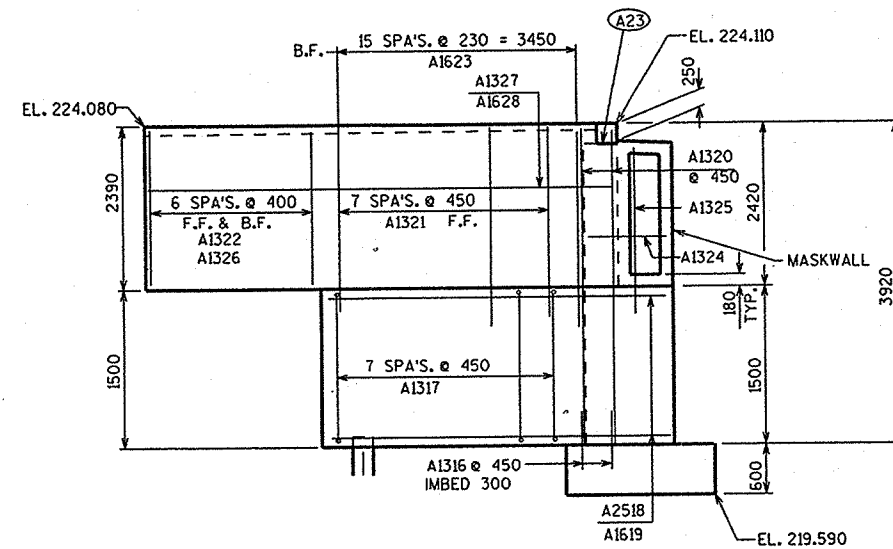
INDICATES PILE BATTERED 1:4 IN DIRECTION SHOWN

| | | | |
|--|------|--------------|------------------------|
| NO. | DATE | REVISION | BY |
| STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS | | | |
| STRUCTURE B-44-187 | | | |
| CONST. SPEC. | 1996 | DRAWN BY JHG | PLANS CK'D. <i>KIM</i> |
| NORTH ABUTMENT | | SHEET 6 | |

FILE= 187ABUTNO.DGN
SCALE = 50



- (A03) OPTIONAL CONST. JOINT: KEYWAY FORMED BY SURFACED BEVELED 38 mm x 140 mm, 19 mm "V" GROOVE @ F.F. IF JOINT IS USED.
- (A23) CONSTRUCTION JOINT: POUR CONCRETE ABOVE THIS JOINT AFTER SUPERSTRUCTURE CONCRETE IS IN PLACE.



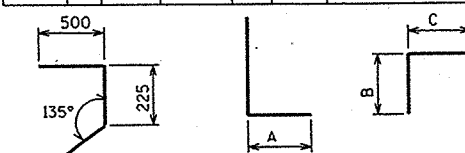
PILE POINT DETAIL

- POINT NOTES**
1. MATERIAL = CAST STEEL (ASTM A-27-84-65-35)
 2. ALL FILLETS = 9mm
 3. ALL WELDS BETW. PILE & POINT TO BE IN ACCORDANCE WITH AWS SPEC'S. WELD FLANGES TO FITTING ON OUTSIDE FACES.
 4. CONTRACTOR MAY USE AN ALTERNATE DESIGN UPON APPROVAL OF THE ENGINEER.

BILL OF BARS

NOTE: THE FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

| BAR MARK | COAT | NO. REQ'D. | LENGTH | BENT | BAR SERIES | LOCATION |
|----------|------|------------|--------|------|------------|-----------------------------------|
| A1901 | | 72 | 3700 | X | | FTG. DOWEL B.F. BODY |
| A1302 | | 72 | 1080 | X | | FTG. DOWEL F.F. BODY |
| A1303 | | 4 | 11950 | | | HORIZ. F.F. BODY |
| A1304 | | 72 | 1425 | | | VERT. F.F. BODY |
| A1905 | | 6 | 5025 | | | HORIZ. B.F. BODY |
| A1306 | | 72 | 2100 | X | | TOP BODY |
| A2907 | | 12 | 6000 | | | HORIZ. B.F. BODY |
| A1908 | | 6 | 7150 | | | HORIZ. B.F. BODY |
| A1609 | X | 72 | 5300 | X | | VERT. BACKWALL BODY |
| A1310 | X | 12 | 10150 | | | HORIZ. BODY |
| A1311 | X | 12 | 12050 | | | HORIZ. BODY |
| A1612 | X | 72 | 1520 | X | | VERT. PAVING BLOCK BODY |
| A1613 | X | 24 | 2290 | | | HORIZ. PAVING BLOCK BODY |
| A1914 | | 3 | 12400 | | | HORIZ. BODY |
| A1915 | | 3 | 10125 | | | HORIZ. BODY |
| A1316 | | 4 | 600 | | | FTG. DOWELS WINGS |
| A1317 | | 16 | 4730 | X | | WINGS |
| A2518 | | 12 | 4700 | | | HORIZ. B.F. WINGS |
| A1619 | | 12 | 4700 | | | HORIZ. F.F. WINGS |
| A1320 | X | 6 | 2300 | | | VERT. F.F. WINGS |
| A1321 | | 16 | 2670 | | | VERT. F.F. WINGS |
| A1322 | | 10 | 2205 | | | VERT. F.F. WINGS |
| A1623 | | 32 | 2520 | | | VERT. B.F. WINGS |
| A1324 | | 16 | 1110 | | | HORIZ. MASKWALL EAST & WEST SIDES |
| A1325 | | 6 | 2390 | | | VERT. MASKWALL EAST & WEST SIDES |
| A1326 | | 10 | 2055 | | | VERT. B.F. WINGS |
| A1327 | | 12 | 5900 | | | HORIZ. F.F. WINGS |
| A1328 | | 20 | 5900 | | | HORIZ. B.F. WINGS |
| A1329 | | 4 | 10050 | | | HORIZ. F.F. BODY |
| A1330 | | 5 | 10300 | | | HORIZ. FTG. BODY |
| A1331 | | 5 | 11950 | | | HORIZ. FTG. BODY |
| A1632 | X | 6 | 2600 | | | HORIZ. PAV. BLOCK @ SDWK. BODY |
| A1933 | X | 40 | 1295 | X | | VERT. - RAIL WINGS |
| A1934 | X | 4 | 5900 | | | HORIZ. - RAIL WINGS |
| A1335 | X | 38 | 1375 | X | | CORBEL FOR PAVING NOTCH RDWY. |
| A1336 | X | 10 | 1575 | X | | CORBEL FOR PAVING NOTCH SDWK. |
| A1937 | X | 3 | 1550 | X | | UTILITY BLOCKOUT HORIZ. BODY |

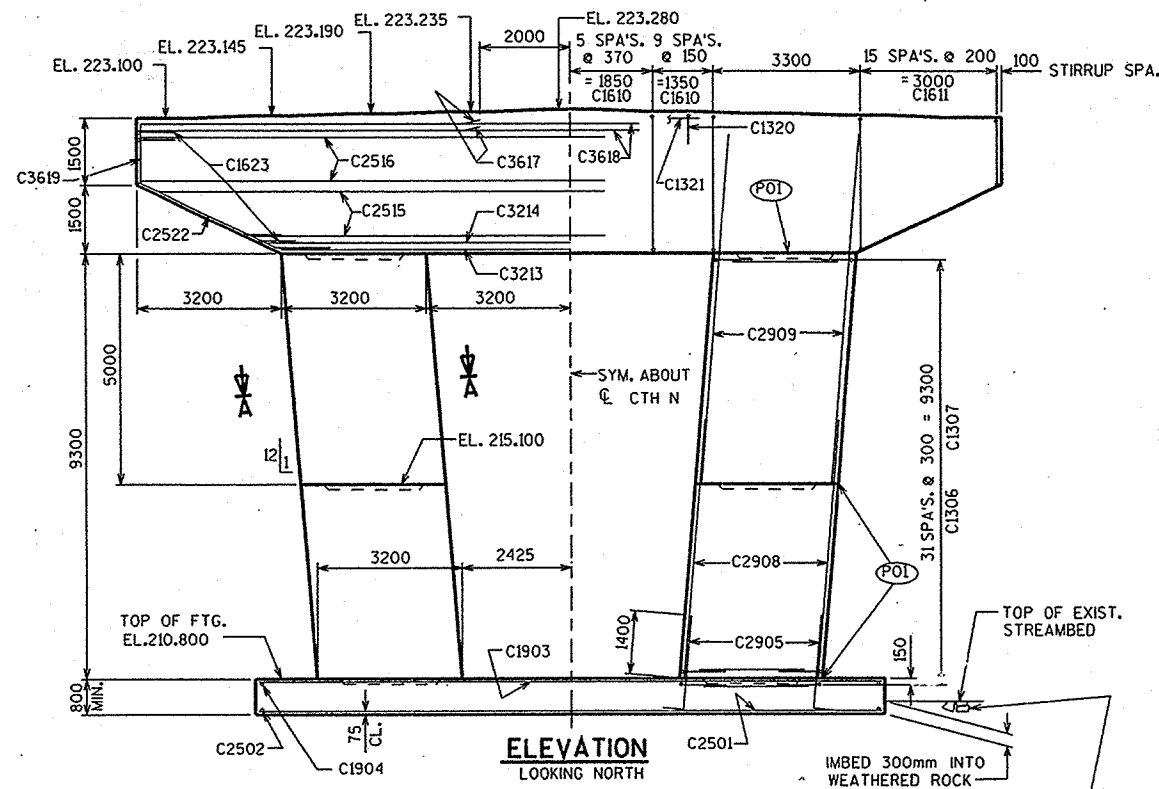


| MARK | A | B | C |
|-------|------|------|------|
| A1901 | 1850 | --- | --- |
| A1302 | 210 | --- | --- |
| A1306 | --- | 480 | 1200 |
| A1609 | --- | 2490 | 400 |
| A1612 | --- | 600 | 400 |
| A1933 | --- | 600 | 195 |

A1336

| NO. | DATE | REVISION | BY |
|--|------|----------|---------|
| STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS | | | |
| STRUCTURE B-44-187 | | | |
| CONST. SPEC. | 1996 | DRAWN BY | JHG |
| PLANS CK'D. | | | KIN |
| NORTH ABUTMENT DETAILS | | | SHEET 7 |

FILE= 187ABUTND.DGN
SCALE = 50



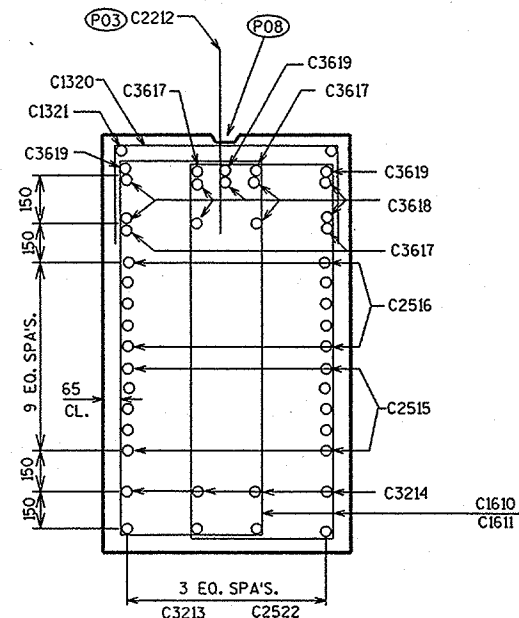
- (P01) 305 mm X 2200 mm X 50 mm CONST. JOINT FORMED BY BEVELED KEYWAY. SEE CONSTRUCTION JOINT DETAIL.
- (P03) C2212 BARS @ 300 mm CTRS. BETWEEN BEAM SEATS. MAY BE PLACED AFTER CONCRETE IS POURED BUT BEFORE INITIAL SET HAS TAKEN PLACE. (EMBED 500 mm INTO CONC.)
- (P08) CONSTRUCTION JOINT-FORMED BY BEVELED 38 mm x 140 mm BETWEEN BEAM SEATS.

BILL OF BARS

NOTE: THE FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

| BAR MARK | COAT | NO. REQ'D. | LENGTH | BEVT. | BAR SERIES | BUN-DLE | LOCATION |
|----------|------|------------|--------|-------|------------|---------|-------------------------|
| C2501 | | 23 | 13900 | | | | FOOTING BOTT. |
| C2502 | | 93 | 3400 | | | | FOOTING BOTT. |
| C1903 | | 12 | 13900 | | | | FOOTING TOP |
| C1904 | | 47 | 3400 | | | | FOOTING TOP |
| C2905 | | 76 | 2535 | X | | | FOOTING TO SHAFT DOWELS |
| C1306 | | 128 | 2300 | | | | SHAFT TIE BARS HORIZ. |
| C1307 | | 128 | 2435 | X | | | SHAFT TIE BARS HORIZ. |
| C2908 | | 76 | 5715 | | | | SHAFT VERT. |
| C2909 | | 76 | 7530 | | | | SHAFT VERT. |
| C1610 | | 58 | 7060 | X | | | CAP STIRRUPS |
| C1611 | | 64 | 5585 | X | ▲ | | CAP STIRRUPS |
| C2212 | | 32 | 1000 | | | | DOWEL CAP TO SUPER. |
| C3213 | | 4 | 12800 | | | | CAP BOTT. HORIZ. |
| C3214 | | 4 | 13480 | | | | CAP BOTT. HORIZ. |
| C2515 | | 20 | 8875 | | ▲ | | CAP SIDES |
| C2516 | | 20 | 10310 | | | | CAP SIDES |
| C3617 | | 8 | 7535 | | X | | CAP TOP AT ENDS |
| C3618 | | 18 | 11085 | | X | | CAP TOP CONTINUOUS |
| C3619 | | 6 | 8735 | X | X | | CAP TOP AT ENDS |
| C1320 | | 18 | 1685 | X | | | CAP TOP GIR'S. 4 THRU 6 |
| C1321 | | 2 | 5440 | | | | CAP TOP GIR'S. 4 THRU 6 |
| C2522 | | 8 | 4520 | X | | | CAP BOTT. |
| C1623 | | 24 | 1780 | X | | | CAP ENDS |

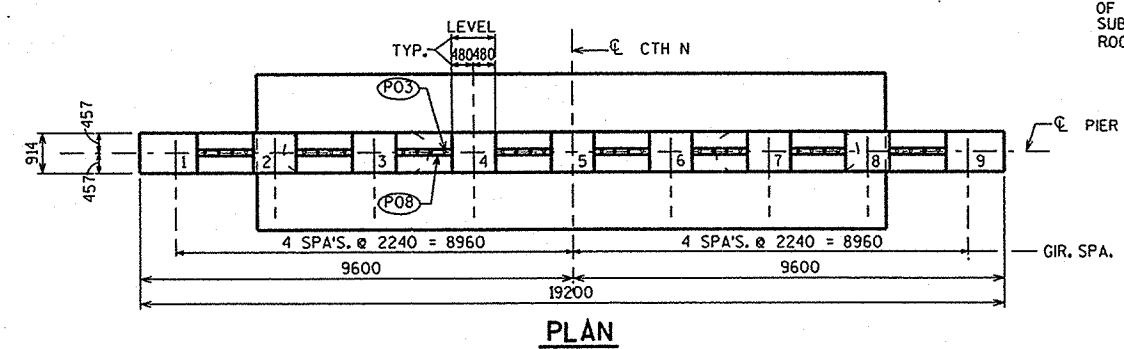
▲ LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.



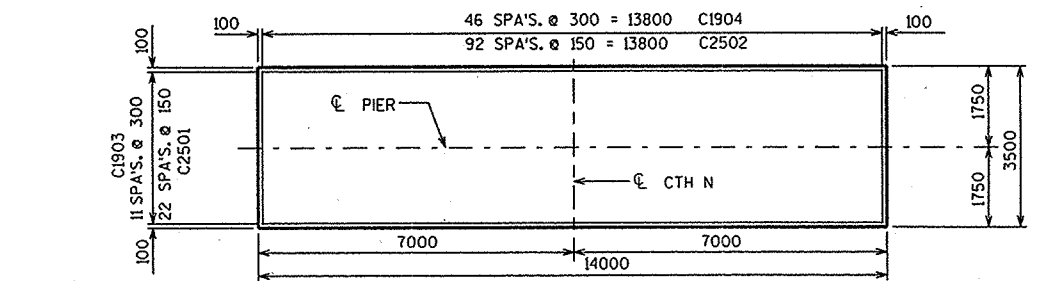
SECT. THRU CAP

SEE SPECIAL PROVISIONS FOR A DESCRIPTION OF ROCK STRATA. THE CONTRACTOR SHALL SUBMIT A PLAN OF PROPOSED METHOD OF ROCK EXCAVATION.

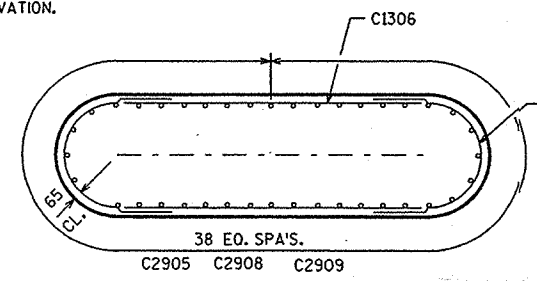
NOTE: THE MINIMUM ALLOWABLE ROCK BEARING CAPACITY SHALL BE 800kPa AT PIER FOOTINGS.



PLAN

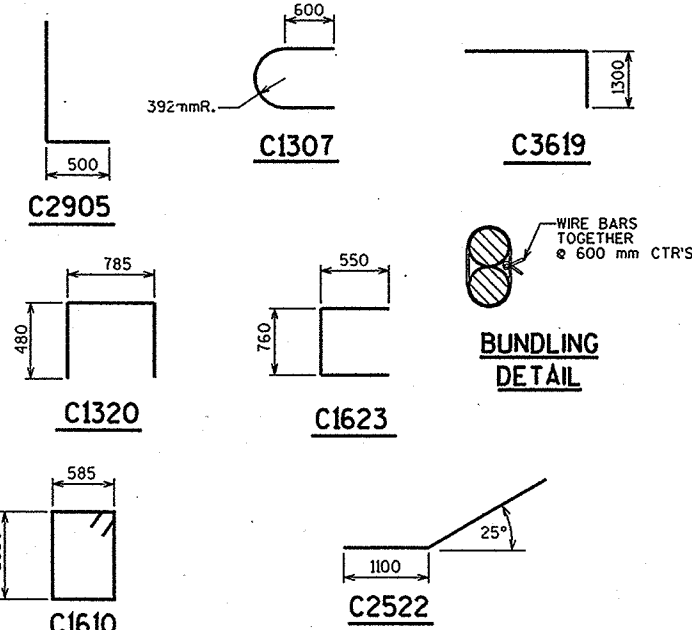


FOOTING PLAN



SECT. A-A

VARIES FROM 1410 TO 2815

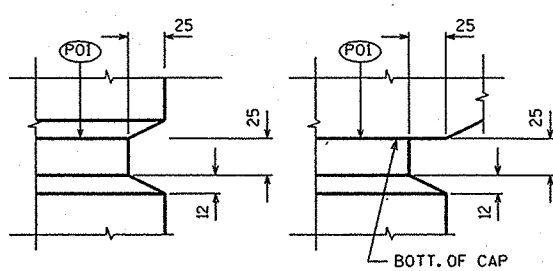


BUNDLING DETAIL

WIRE BARS TOGETHER @ 600 mm CTRS.

BAR SERIES TABLE

| MARK | NO. REQ'D. | LENGTH |
|-------|----------------|--------------|
| C1611 | 4 SERIES OF 16 | 4180 TO 6990 |
| C2515 | 4 SERIES OF 5 | 7835 TO 9910 |
| | OF SERIES | TO |
| | OF SERIES | TO |



CONST. JOINT DETAIL

BUNDLE AND TAG EACH SERIES SEPARATELY.

| NO. | DATE | REVISION | BY |
|-----|------|----------|----|
| | | | |

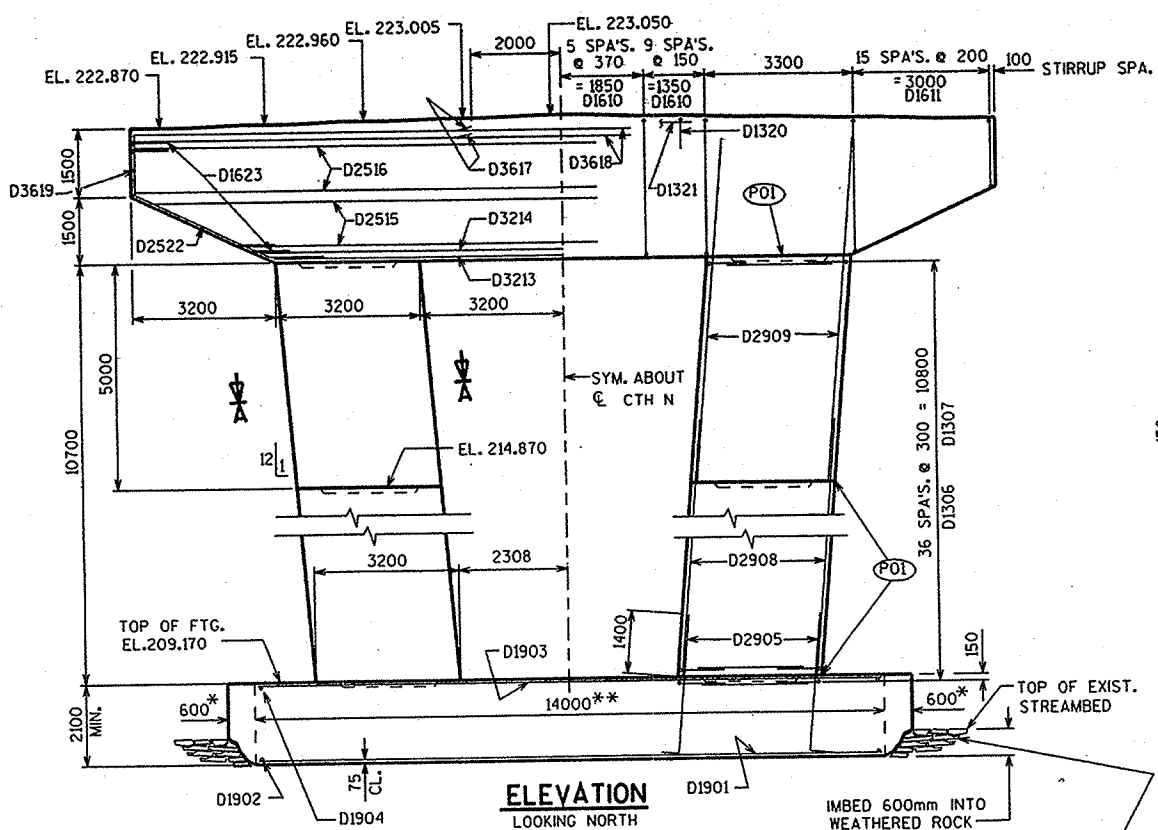
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-187

CONST. SPEC. 1996 DRAWN BY JHG PLANS CKD. **KIN**

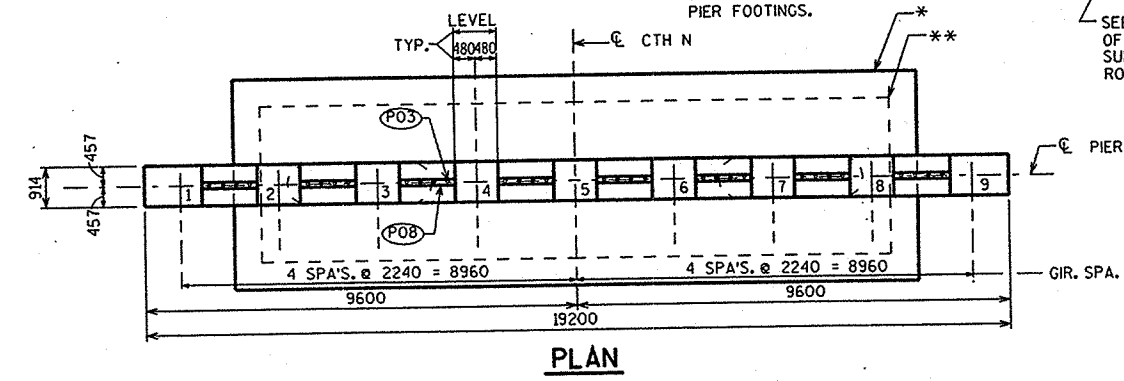
PIER 1 SHEET 8

FILE= 187PIER1.DGN SCALE = 75

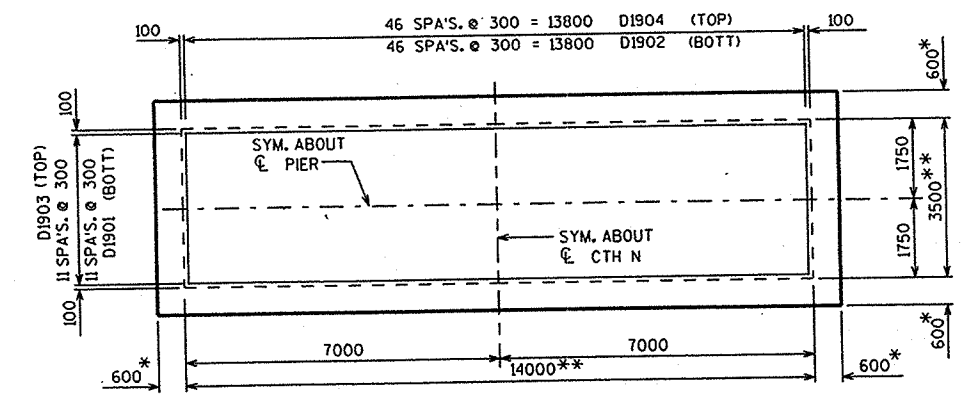


ELEVATION
LOOKING NORTH

NOTE:
THE MINIMUM ALLOWABLE
ROCK BEARING CAPACITY
SHALL BE 800KPa AT
PIER FOOTINGS.



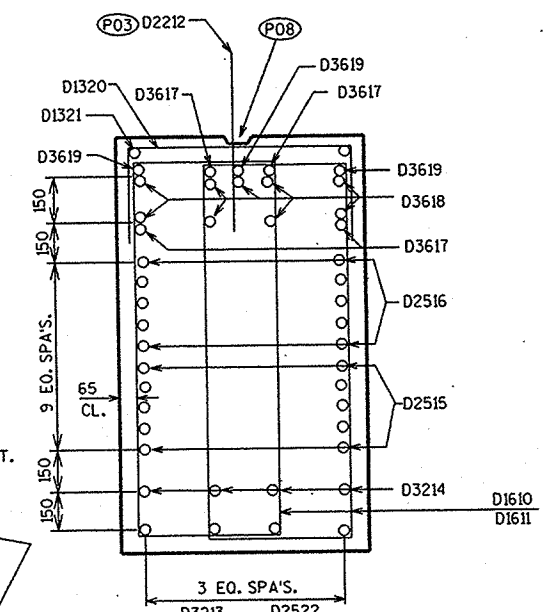
PLAN



FOOTING PLAN

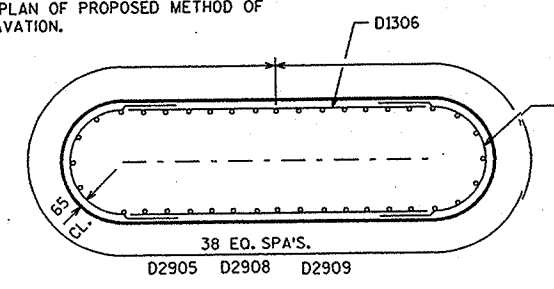
* UNREINFORCED CONCRETE SEAL
** REINFORCED CONCRETE SEAL

- (P01) 305 mm X 2200 mm X 50 mm CONST. JOINT FORMED BY BEVELED KEYWAY. SEE CONSTRUCTION JOINT DETAIL.
- (P03) D2212 BARS @ 300 mm CTRS. BETWEEN BEAM SEATS. MAY BE PLACED AFTER CONCRETE IS POURED BUT BEFORE INITIAL SET HAS TAKEN PLACE. (EMBED 500 mm INTO CONC.)
- (P08) CONSTRUCTION JOINT-FORMED BY BEVELED 38 mm x 140 mm BETWEEN BEAM SEATS.

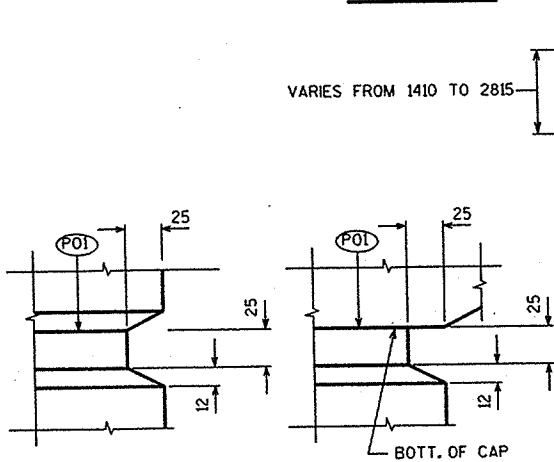


SECT. THRU CAP

SEE SPECIAL PROVISIONS FOR A DESCRIPTION OF ROCK STRATA. THE CONTRACTOR SHALL SUBMIT A PLAN OF PROPOSED METHOD OF ROCK EXCAVATION.



SECT. A-A



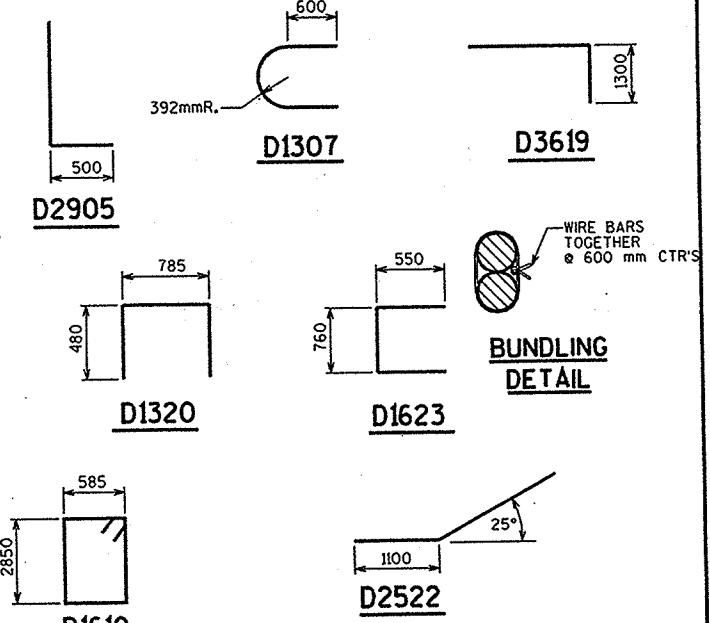
CONST. JOINT DETAIL

BILL OF BARS

NOTE: THE FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

| BAR MARK | COAT | NO. REQ'D. | LENGTH | REIN. | BAR SERIES | BUN-DLE | LOCATION |
|----------|------|------------|--------|-------|------------|---------|-------------------------|
| D1901 | | 12 | 13900 | | | | FOOTING BOT. |
| D1902 | | 47 | 3400 | | | | FOOTING BOT. |
| D1903 | | 12 | 13900 | | | | FOOTING TOP |
| D1904 | | 47 | 3400 | | | | FOOTING TOP |
| D2905 | | 76 | 3840 | X | | | FOOTING TO SHAFT DOWELS |
| D1306 | | 148 | 2300 | | | | SHAFT TIE BARS HORIZ. |
| D1307 | | 148 | 2435 | X | | | SHAFT TIE BARS HORIZ. |
| D2908 | | 76 | 7120 | | | | SHAFT VERT. |
| D2909 | | 76 | 7530 | | | | SHAFT VERT. |
| D1610 | | 58 | 7060 | X | | | CAP STIRRUPS |
| D1611 | | 64 | 5585 | X | Δ | | CAP STIRRUPS |
| D2212 | | 32 | 1000 | | | | DOWEL CAP TO SUPER. |
| D3213 | | 4 | 12800 | | | | CAP BOT. HORIZ. |
| D3214 | | 4 | 13480 | | | | CAP BOT. HORIZ. |
| D2515 | | 20 | 8875 | | | Δ | CAP SIDES |
| D2516 | | 20 | 10310 | | | | CAP SIDES |
| D3617 | | 8 | 7535 | | X | | CAP TOP AT ENDS |
| D3618 | | 18 | 11085 | | X | | CAP TOP CONTINUOUS |
| D3619 | | 6 | 8735 | X | X | | CAP TOP AT ENDS |
| D1320 | | 18 | 1685 | X | | | CAP TOP GIR'S. 4 THRU 6 |
| D1321 | | 2 | 5440 | X | | | CAP TOP GIR'S. 4 THRU 6 |
| D2522 | | 8 | 4520 | X | | | CAP BOT. |
| D1623 | | 24 | 1780 | X | | | CAP ENDS |

Δ LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.



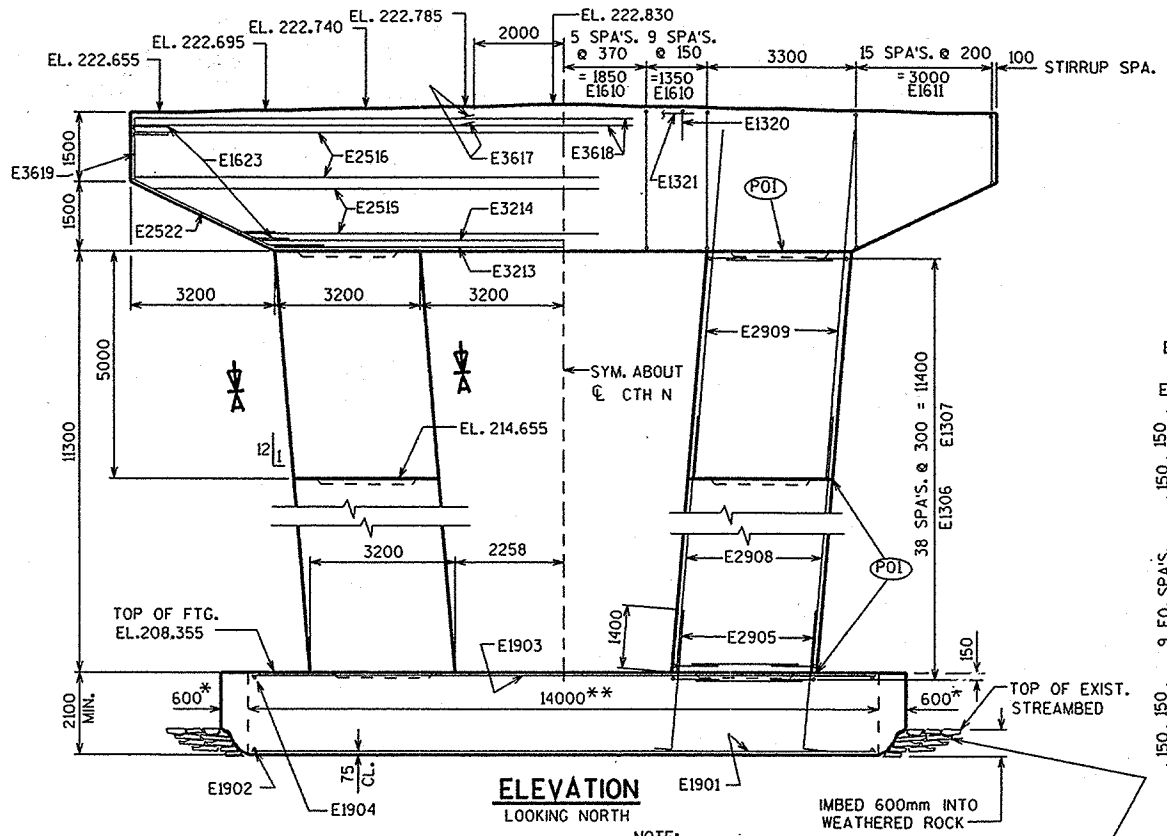
BAR SERIES TABLE

| MARK | NO. REQ'D. | LENGTH |
|-------|----------------|--------------|
| D1611 | 4 SERIES OF 16 | 4180 TO 6990 |
| D2515 | 4 SERIES OF 5 | 7835 TO 9910 |
| | OF SERIES | TO |
| | OF SERIES | TO |

BUNDLE AND TAG EACH SERIES SEPARATELY.

| NO. | DATE | REVISION | BY |
|---|------|--------------|-----------------------|
| STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION | | | |
| STRUCTURE B-44-187 | | | |
| CONST. SPEC. | 1996 | DRAWN BY JHG | PLANS CTD. <i>KCN</i> |
| PIER 2 | | | SHEET 9 |

FILE: 187PIER2.DGN
SCALE = 75



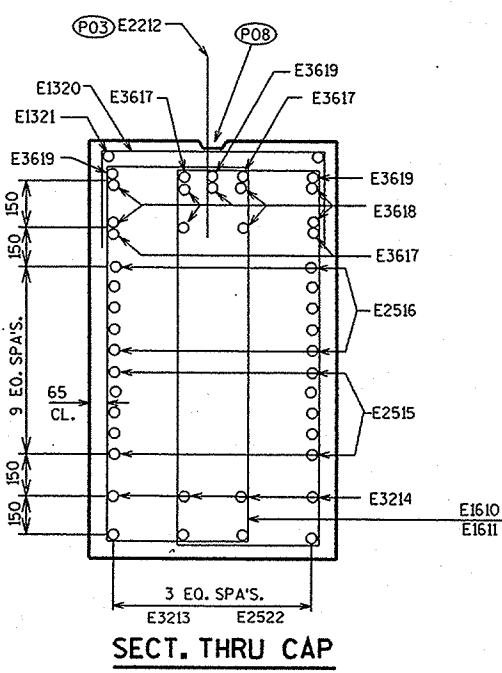
- (P01) 305 mm X 2200 mm X 50 mm CONST. JOINT FORMED BY BEVELED KEYWAY, SEE CONSTRUCTION JOINT DETAIL.
- (P03) E2212 BARS @ 300 mm CTRS. BETWEEN BEAM SEATS, MAY BE PLACED AFTER CONCRETE IS POURED BUT BEFORE INITIAL SET HAS TAKEN PLACE. (EMBED 500 mm INTO CONC.)
- (P08) CONSTRUCTION JOINT-FORMED BY BEVELED 38 mm x 140 mm BETWEEN BEAM SEATS.

BILL OF BARS

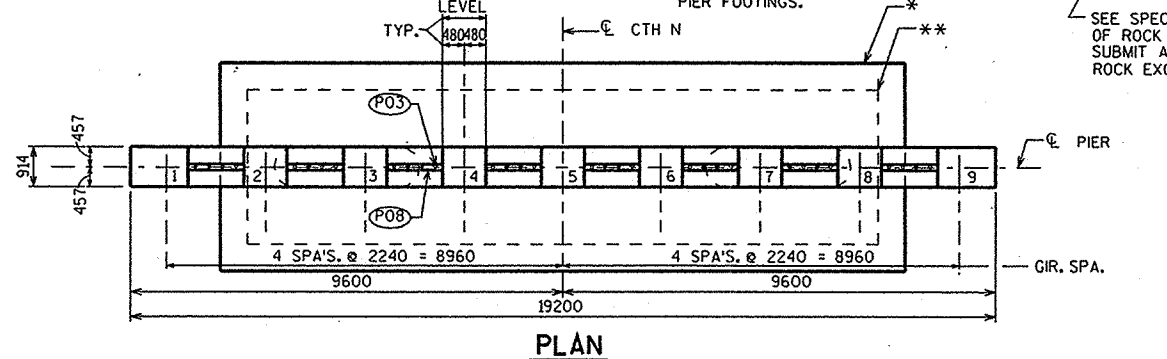
NOTE: THE FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

| BAR MARK | COAT | NO. REQ'D. | LENGTH | BENT | BAR SERIES | BUN-DLE | LOCATION |
|----------|------|------------|--------|------|------------|---------|-------------------------|
| E1901 | | 12 | 13900 | | | | FOOTING BOT. |
| E1902 | | 47 | 3400 | | | | FOOTING BOT. |
| E1903 | | 12 | 13900 | | | | FOOTING TOP |
| E1904 | | 47 | 3400 | | | | FOOTING TOP |
| E2905 | | 76 | 3840 | X | | | FOOTING TO SHAFT DOWELS |
| E1306 | | 156 | 2300 | | | | SHAFT TIE BARS HORIZ. |
| E1307 | | 156 | 2435 | X | | | SHAFT TIE BARS HORIZ. |
| E2908 | | 76 | 7725 | | | | SHAFT VERT. |
| E2909 | | 76 | 7530 | | | | SHAFT VERT. |
| E1610 | | 58 | 7060 | X | | | CAP STIRRUPS |
| E1611 | | 64 | 5585 | X | ▲ | | CAP STIRRUPS |
| E2212 | | 32 | 1000 | | | | DOWEL CAP TO SUPER. |
| E3213 | | 4 | 12800 | | | | CAP BOT. HORIZ. |
| E3214 | | 4 | 13480 | | | | CAP BOT. HORIZ. |
| E2515 | | 20 | 8875 | | ▲ | | CAP SIDES |
| E2516 | | 20 | 10310 | | | | CAP SIDES |
| E3617 | | 8 | 7535 | | | X | CAP TOP AT ENDS |
| E3618 | | 18 | 11085 | | | X | CAP TOP CONTINUOUS |
| E3619 | | 6 | 8735 | X | | X | CAP TOP AT ENDS |
| E1320 | | 18 | 1685 | X | | | CAP TOP GIR'S. 4 THRU 6 |
| E1321 | | 2 | 5440 | | | | CAP TOP GIR'S. 4 THRU 6 |
| E2522 | | 8 | 4520 | X | | | CAP BOT. |
| E1623 | | 24 | 1780 | X | | | CAP ENDS |

▲ LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

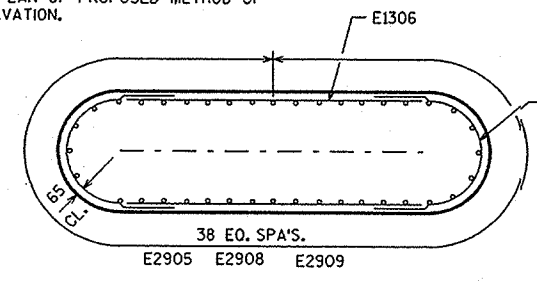


SECT. THRU CAP

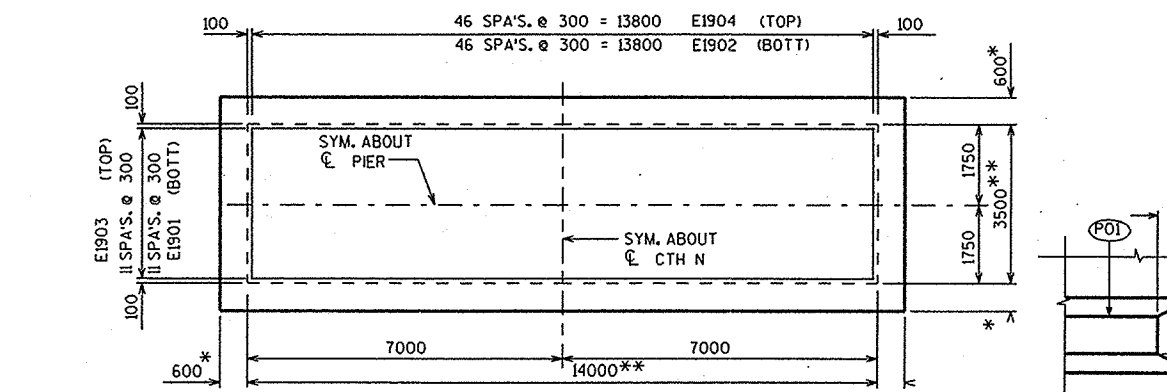
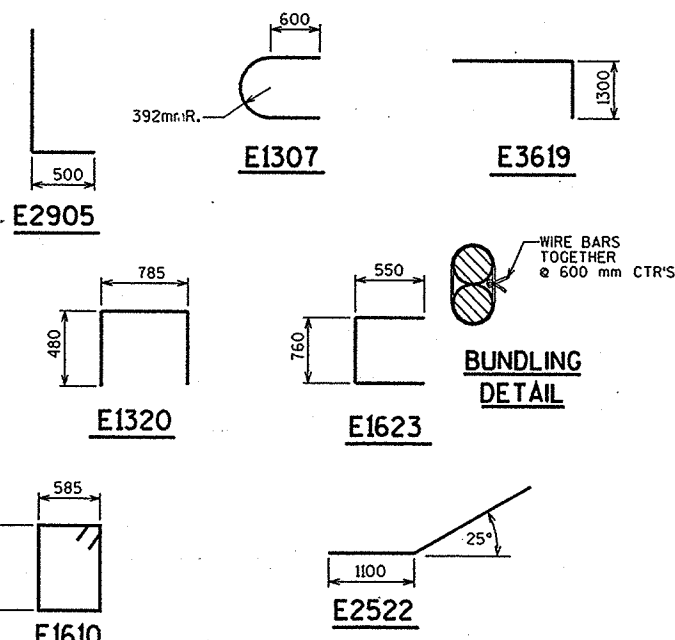


PLAN

SEE SPECIAL PROVISIONS FOR A DESCRIPTION OF ROCK STRATA. THE CONTRACTOR SHALL SUBMIT A PLAN OF PROPOSED METHOD OF ROCK EXCAVATION.

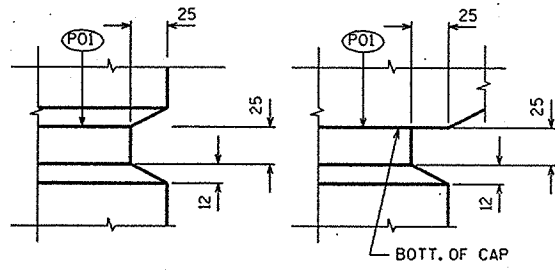


SECT. A-A



FOOTING PLAN

* UNREINFORCED CONCRETE SEAL
** REINFORCED CONCRETE SEAL



CONST. JOINT DETAIL

BAR SERIES TABLE

| MARK | NO. REQ'D. | LENGTH |
|-------|----------------|--------------|
| E1611 | 4 OF SERIES 16 | 4180 TO 6990 |
| E2515 | 4 OF SERIES 5 | 7835 TO 9910 |
| | OF SERIES | TO |
| | OF SERIES | TO |

BUNDLE AND TAG EACH SERIES SEPARATELY.

| NO. | DATE | REVISION | BY |
|---|------|--------------|----------------|
| STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION | | | |
| STRUCTURE B-44-187 | | | |
| CONST. SPEC. | 1996 | DRAWN BY JHG | PLANS CKD. KTN |
| PIER 3 | | | SHEET 10 |

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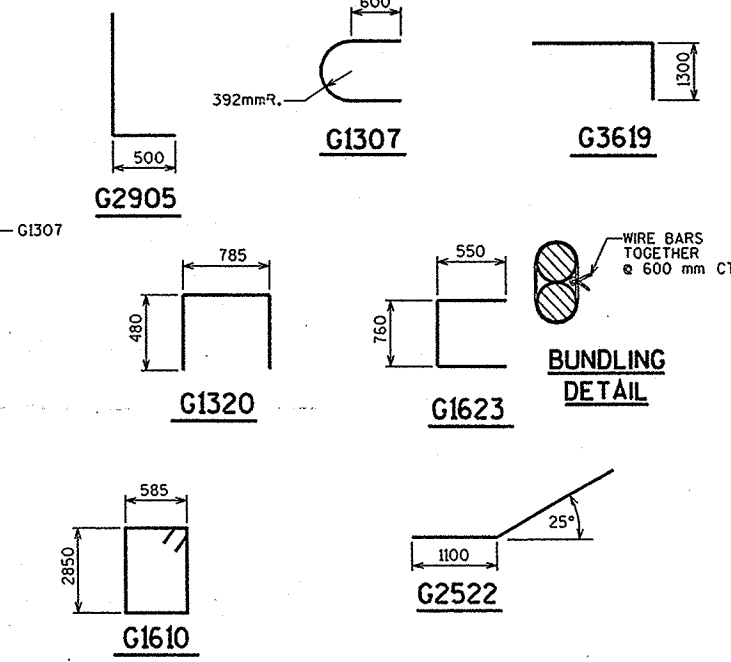
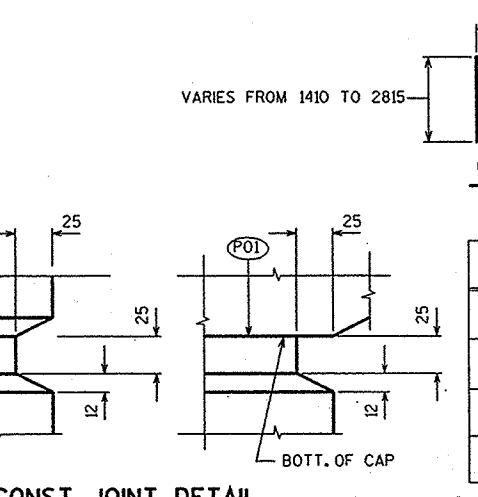
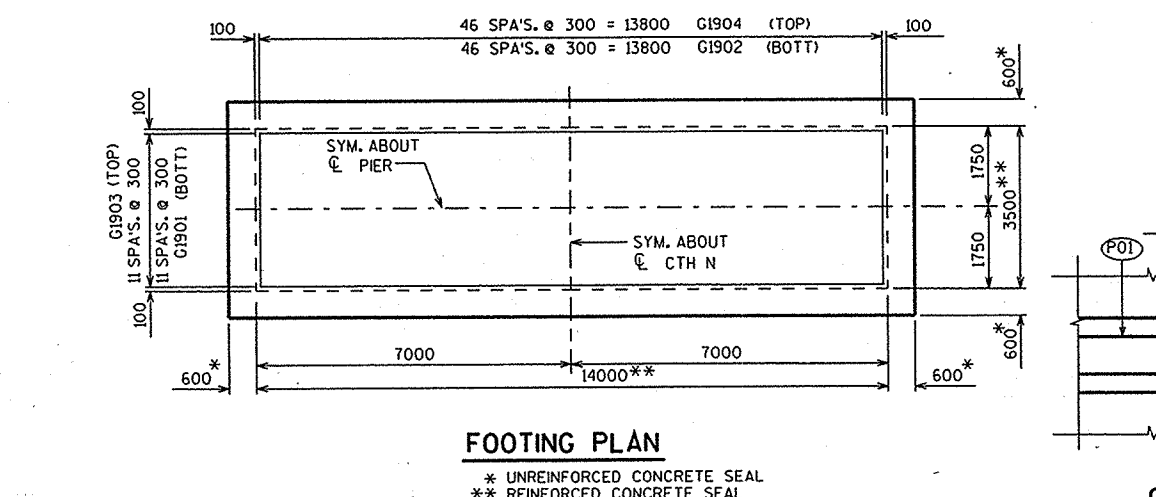
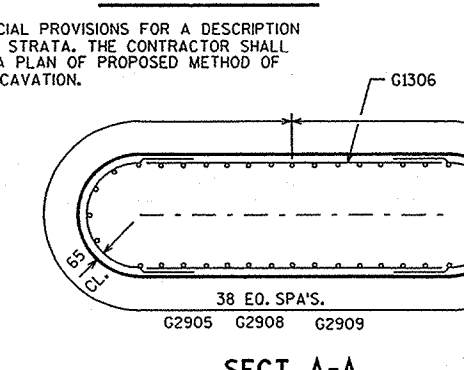
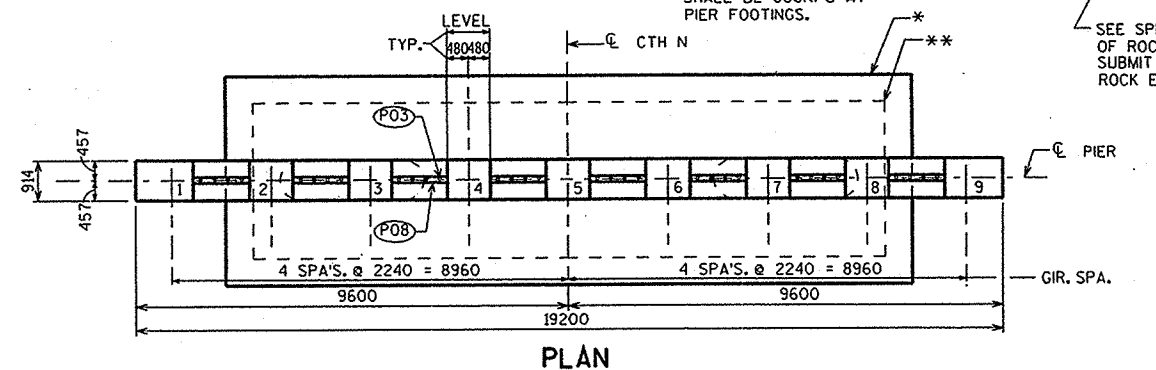
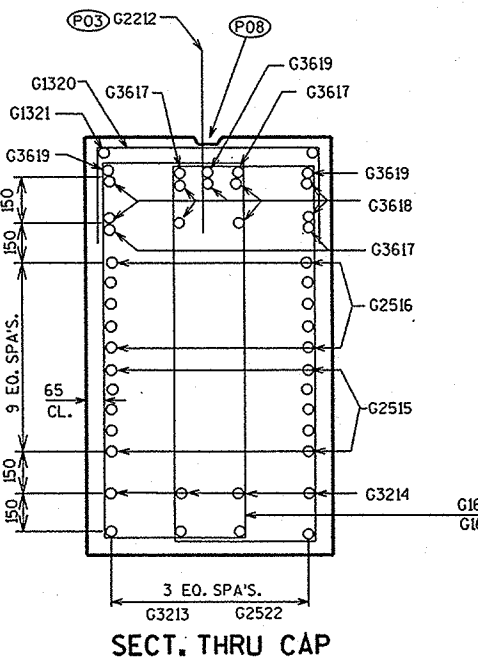
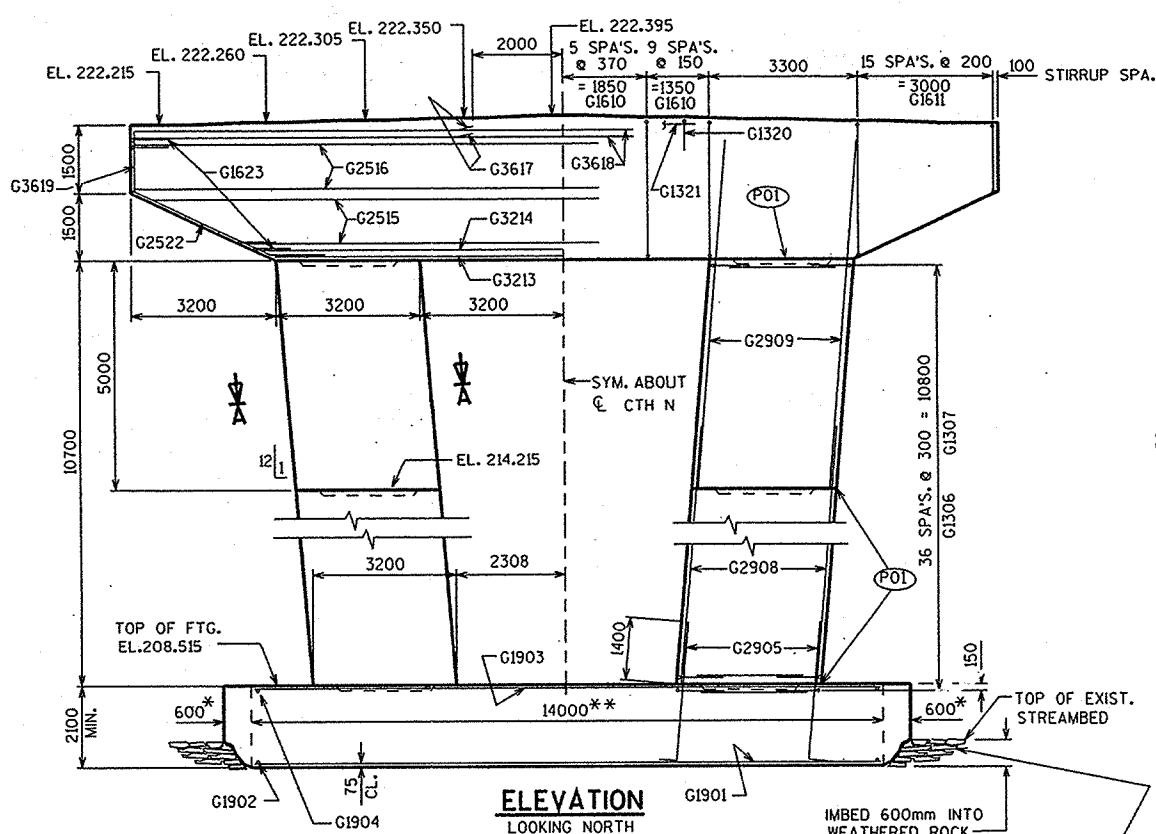
- (P01) 305 mm X 2200 mm X 50 mm CONST. JOINT FORMED BY BEVELED KEYWAY. SEE CONSTRUCTION JOINT DETAIL.
- (P03) G2212 BARS @ 300 mm CTRS. BETWEEN BEAM SEATS. MAY BE PLACED AFTER CONCRETE IS POURED BUT BEFORE INITIAL SET HAS TAKEN PLACE. (EMBED 500 mm INTO CONC.)
- (P08) CONSTRUCTION JOINT-FORMED BY BEVELED 38 mm x 140 mm BETWEEN BEAM SEATS.

BILL OF BARS

NOTE: THE FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

| BAR MARK | NO. REOD. | LENGTH | BAR SERIES | BUN-DLE | LOCATION |
|----------|-----------|--------|------------|---------|-------------------------|
| G1901 | 12 | 13900 | | | FOOTING BOTTL. |
| G1902 | 47 | 3400 | | | FOOTING BOTTL. |
| G1903 | 12 | 13900 | | | FOOTING TOP |
| G1904 | 47 | 3400 | | | FOOTING TOP |
| G2905 | 76 | 3840 | X | | FOOTING TO SHAFT DOWELS |
| G1306 | 148 | 2300 | | | SHAFT TIE BARS HORIZ. |
| G1307 | 148 | 2435 | X | | SHAFT TIE BARS HORIZ. |
| G2908 | 76 | 7120 | | | SHAFT VERT. |
| G2909 | 76 | 7530 | | | SHAFT VERT. |
| G1610 | 58 | 7060 | X | | CAP STIRRUPS |
| G1611 | 64 | 5585 | X | ▲ | CAP STIRRUPS |
| G2212 | 32 | 1000 | | | DOWEL CAP TO SUPER. |
| G3213 | 4 | 12800 | | | CAP BOTTL. HORIZ. |
| G3214 | 4 | 13480 | | | CAP BOTTL. HORIZ. |
| G2515 | 20 | 8875 | | ▲ | CAP SIDES |
| G2516 | 20 | 10310 | | | CAP SIDES |
| G3617 | 8 | 7535 | | X | CAP TOP AT ENDS |
| G3618 | 18 | 11085 | | X | CAP TOP CONTINUOUS |
| G3619 | 6 | 8735 | X | X | CAP TOP AT ENDS |
| G1320 | 18 | 1685 | X | | CAP TOP GIR'S, 4 THRU 6 |
| G1321 | 2 | 5440 | | | CAP TOP GIR'S, 4 THRU 6 |
| G2522 | 8 | 4520 | X | | CAP BOTTL. |
| G1623 | 24 | 1780 | X | | CAP ENDS |

▲ LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.



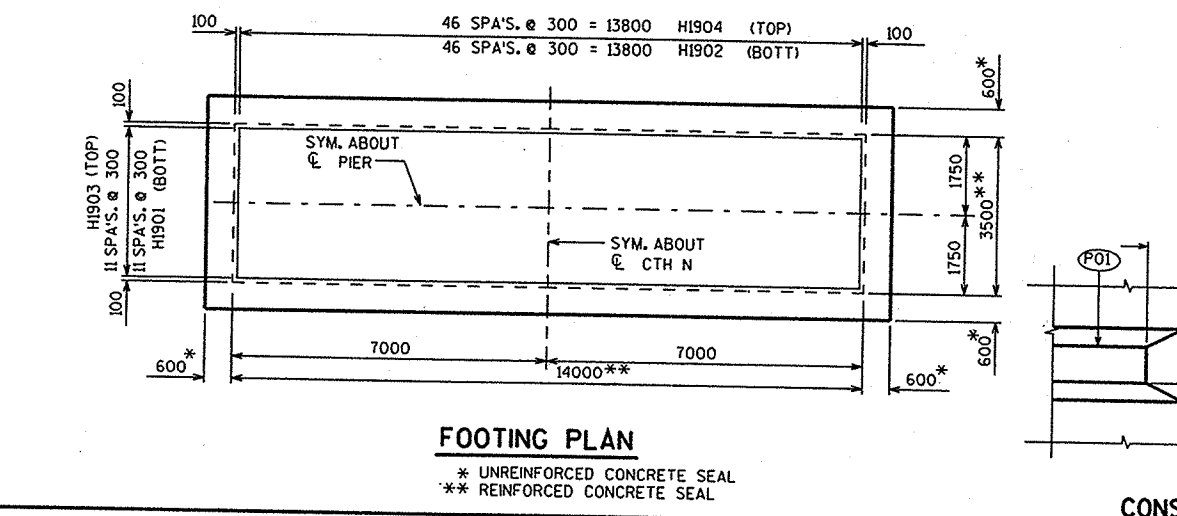
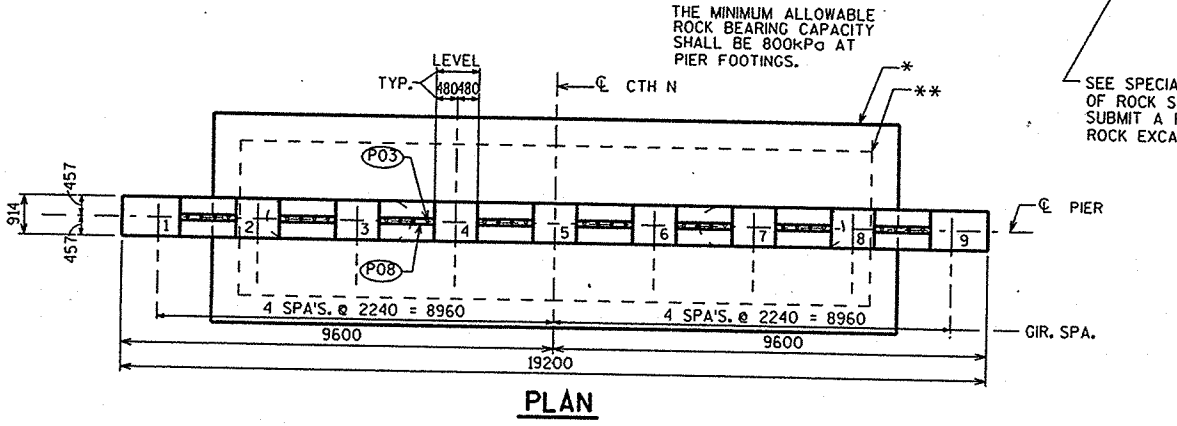
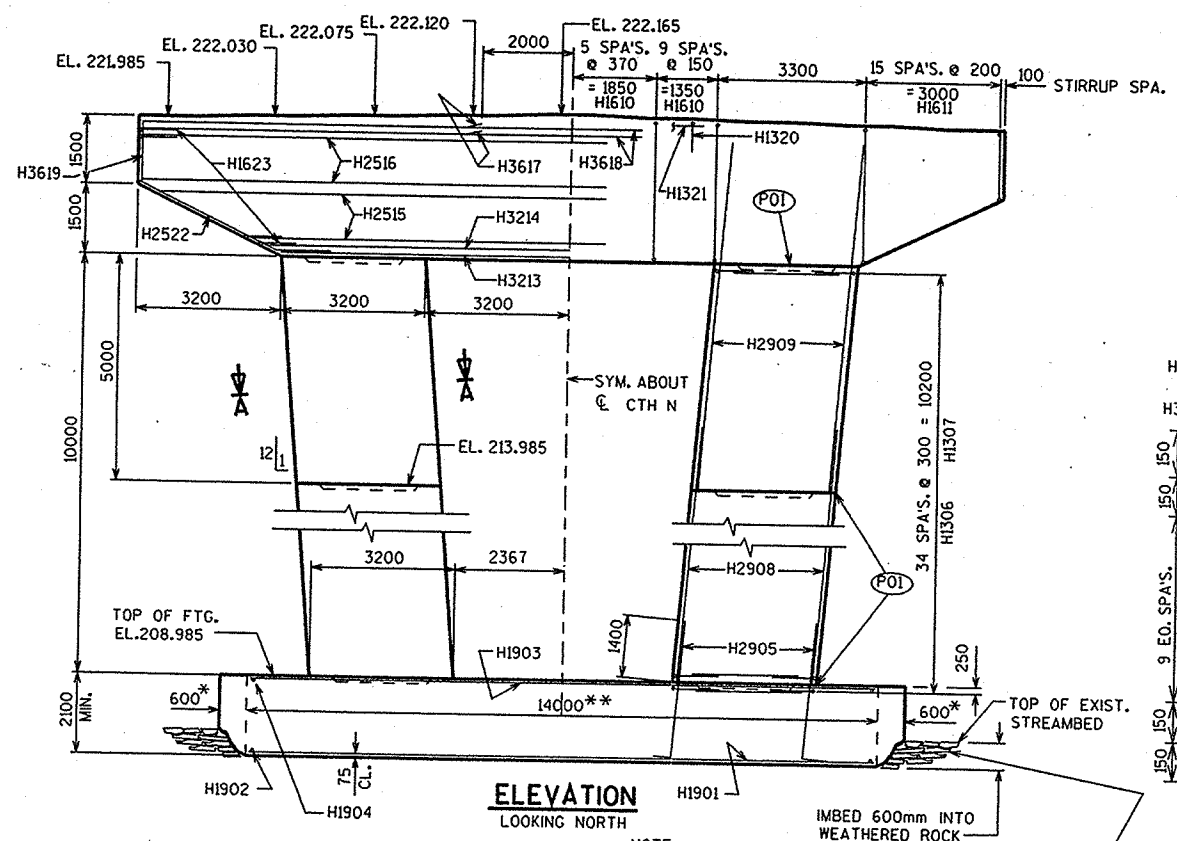
BAR SERIES TABLE

| MARK | NO. REOD. | LENGTH | TO |
|-------|----------------|--------|---------|
| G1611 | 4 OF SERIES 16 | 4180 | TO 5390 |
| G2515 | 4 OF SERIES 5 | 7835 | TO 9910 |
| | OF SERIES | | TO |
| | OF SERIES | | TO |

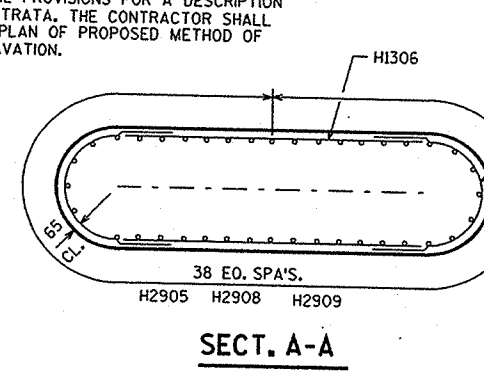
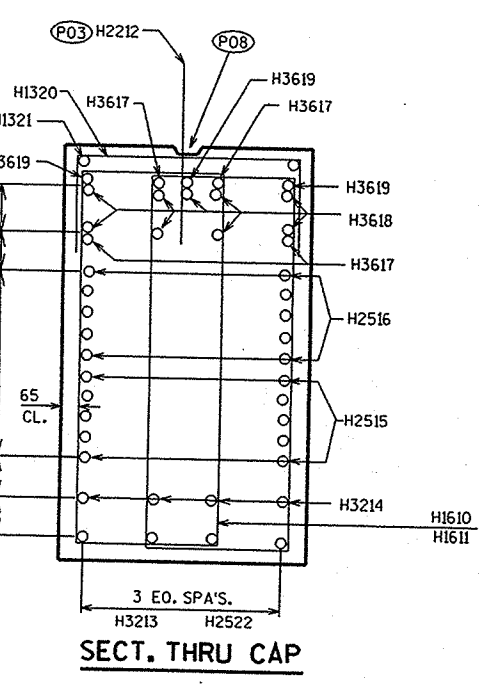
| NO. | DATE | REVISION | BY |
|-----|------|----------|----|
| | | | |

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION
STRUCTURE B-44-187
CONST. SPEC. 1996 DRAWN BY JHG PLANS Ckd. *KW*
PIER 5 SHEET 12

FILE-187PREDLON
SCALE = 7/8"



- (P01) 305 mm X 2200 mm X 50 mm CONST. JOINT FORMED BY BEVELED KEYWAY. SEE CONSTRUCTION JOINT DETAIL.
- (P03) H2212 BARS @ 300 mm CTRS. BETWEEN BEAM SEATS. MAY BE PLACED AFTER CONCRETE IS POURED BUT BEFORE INITIAL SET HAS TAKEN PLACE. (EMBED 500 mm INTO CONC.)
- (P08) CONSTRUCTION JOINT-FORMED BY BEVELED 38 mm x 140 mm BETWEEN BEAM SEATS.

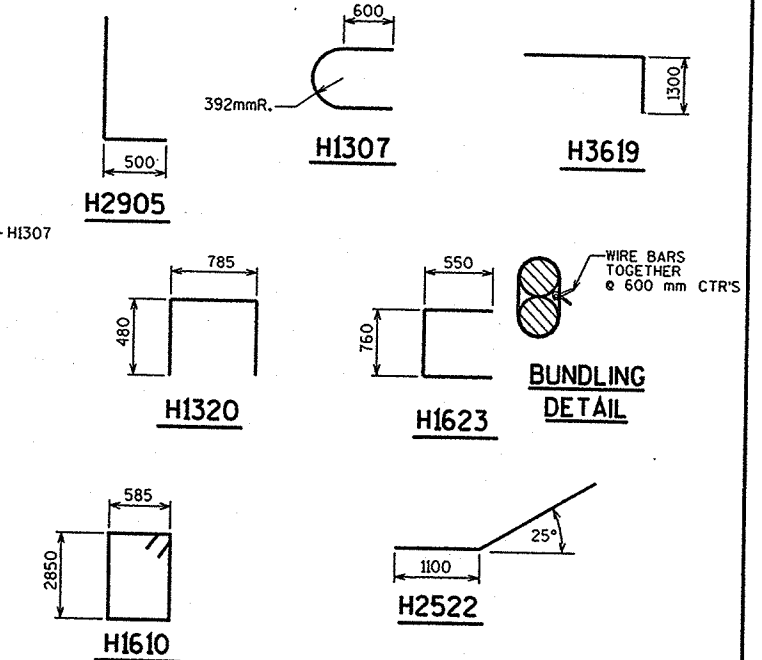


BILL OF BARS

NOTE: THE FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

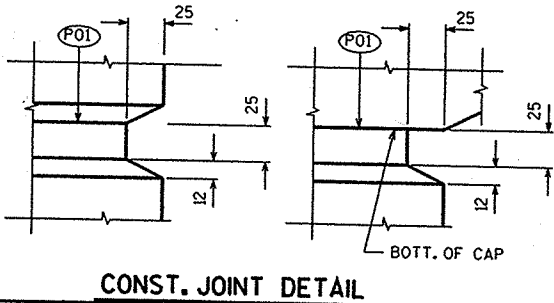
| BAR MARK | COAT | NO. REOD. | LENGTH | BENT | BAR SERIES | BUN-DLE | LOCATION |
|----------|------|-----------|--------|------|------------|---------|-------------------------|
| H1901 | | 12 | 13900 | | | | FOOTING BOT. |
| H1902 | | 47 | 3400 | | | | FOOTING BOT. |
| H1903 | | 12 | 13900 | | | | FOOTING TOP |
| H1904 | | 47 | 3400 | | | | FOOTING TOP |
| H2905 | | 76 | 3840 | X | | | FOOTING TO SHAFT DOWELS |
| H1306 | | 140 | 2300 | | | | SHAFT TIE BARS HORIZ. |
| H1307 | | 140 | 2435 | X | | | SHAFT TIE BARS HORIZ. |
| H2908 | | 76 | 6420 | | | | SHAFT VERT. |
| H2909 | | 76 | 7530 | | | | SHAFT VERT. |
| H1610 | | 58 | 7060 | X | | | CAP STIRRUPS |
| H1611 | | 64 | 5585 | X | Δ | | CAP STIRRUPS |
| H2212 | | 32 | 1000 | | | | DOWEL CAP TO SUPER. |
| H3213 | | 4 | 12800 | | | | CAP BOT. HORIZ. |
| H3214 | | 4 | 13480 | | | | CAP BOT. HORIZ. |
| H2515 | | 20 | 8875 | | Δ | | CAP SIDES |
| H2516 | | 20 | 10310 | | | | CAP SIDES |
| H3617 | | 8 | 7535 | | | X | CAP TOP AT ENDS |
| H3618 | | 18 | 11085 | | | X | CAP TOP CONTINUOUS |
| H3619 | | 6 | 8735 | X | | X | CAP TOP AT ENDS |
| H1320 | | 18 | 1685 | X | | | CAP TOP GIR'S. 4 THRU 6 |
| H1321 | | 2 | 5440 | | | | CAP TOP GIR'S. 4 THRU 6 |
| H2522 | | 8 | 4520 | X | | | CAP BOT. |
| H1623 | | 24 | 1780 | X | | | CAP ENDS |

Δ LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.



BAR SERIES TABLE

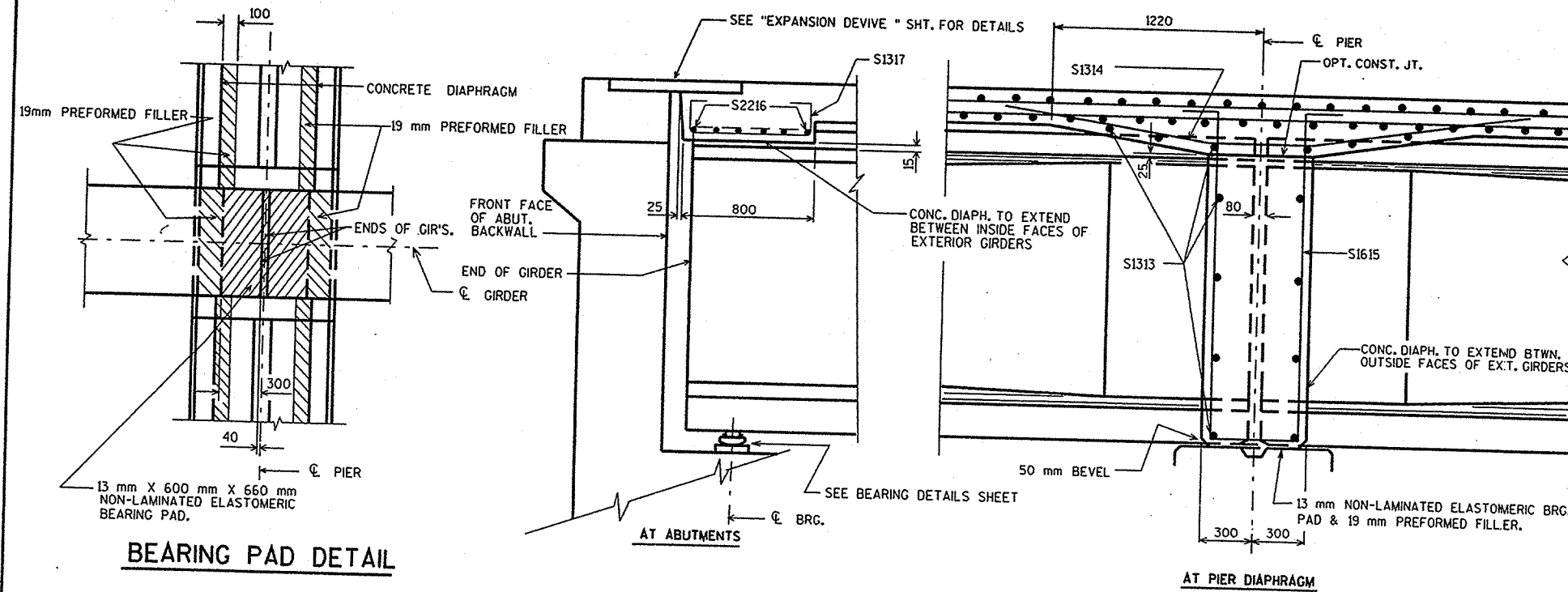
| MARK | NO. REOD. | LENGTH |
|-------|----------------|--------------|
| H1611 | 4 SERIES OF 16 | 4180 TO 6990 |
| H2515 | 4 SERIES OF 5 | 7835 TO 9910 |
| | OF SERIES | TO |
| | OF SERIES | TO |



| NO. | DATE | REVISION | BY |
|---|------|--------------|-----------------------|
| STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION | | | |
| STRUCTURE B-44-187 | | | |
| CONST. SPEC. | 1996 | DRAWN BY JHG | PLANS CKD. KTN |
| PIER 6 | | | SHEET 13 |

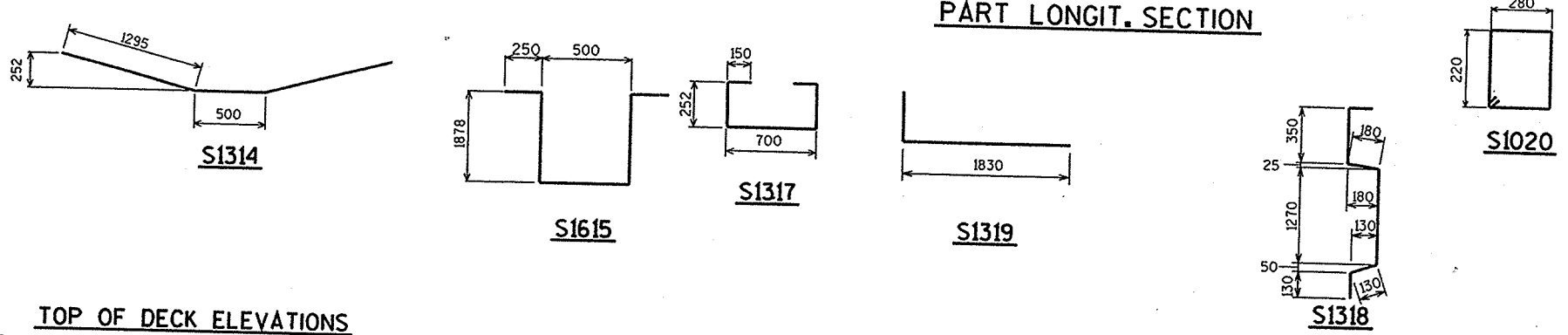
BUNDLE AND TAG EACH SERIES SEPARATELY.

FILE=187PIER6.DGN
SCALE = 75



BILL OF BARS

| BAR MARK | COY. | NO. REQ'D. | LENGTH | BENT | BAR SERIES | LOCATION |
|----------|------|------------|--------|------|------------|-------------------------|
| S3601 | X | 196 | 11400 | | | LONGITUDINAL CONTINUITY |
| S1302 | X | 294 | 12050 | | | LONGITUDINAL TOP |
| S1303 | X | 392 | 9775 | | | LONGITUDINAL TOP |
| S3204 | X | 196 | 11025 | | | LONGITUDINAL CONTINUITY |
| S1305 | X | 294 | 10600 | | | LONGITUDINAL TOP |
| S1306 | X | 294 | 10325 | | | LONGITUDINAL TOP |
| S3207 | X | 196 | 11500 | | | LONGITUDINAL CONTINUITY |
| S1308 | X | 588 | 10625 | | | LONGITUDINAL TOP |
| S1309 | X | 294 | 10500 | | | LONGITUDINAL TOP |
| S1310 | X | 2450 | 12000 | | | LONGITUDINAL BOTTOM |
| S1611 | X | 2879 | 11150 | | | TRANSVERSE STAGE 1 |
| S1612 | X | 2879 | 9100 | | | TRANSVERSE STAGE 2 |
| S1313 | X | 672 | 1375 | | | PIER DIAPHRAGM |
| S1314 | X | 288 | 3100 | X | | PIER DIAPHRAGM |
| S1615 | X | 288 | 4200 | X | | PIER DIAPHRAGM |
| S2216 | X | 96 | 1375 | | | ABUT. DIAPHRAGM |
| S1317 | X | 80 | 1400 | X | | ABUT. DIAPHRAGM |
| S1318 | X | 24 | 2175 | X | | PIER PILASTER |
| S1319 | X | 24 | 2000 | X | | PIER PILASTER |
| S1020 | X | 72 | 1175 | X | | PIER PILASTER |
| S1321 | X | 3820 | 2365 | X | | SLAB & SDWK. |
| S1622 | X | 3820 | 2640 | X | | SDWK. TRANS. TOP |
| S1323 | X | 1280 | 2640 | | | SDWK. TRANS. BOT. |
| S1324 | X | 800 | 12000 | | | SDWK. LONGIT. |
| S1625 | X | 128 | 3040 | X | | LIGHT STANDARDS |
| S1626 | X | 480 | 2760 | X | | LIGHT STANDARDS |
| S1627 | X | 192 | 480 | | | LIGHT STANDARDS |
| S1328 | X | 48 | 2180 | X | | LIGHT STANDARDS |
| S1629 | X | 48 | 1525 | | | AT FLOOR DRAINS |
| S1930 | X | 236 | 3650 | X | | ONE PER RAIL POST |
| S1931 | X | 472 | 1220 | | | TWO PER RAIL POST |

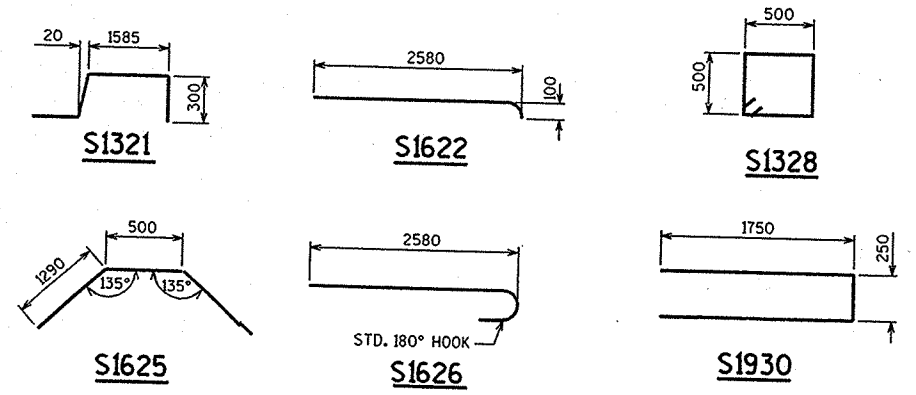


TOP OF DECK ELEVATIONS

| S. ABUT. | 1/8 | 2/8 | 3/8 | 4/8 | 5/8 | 6/8 | 7/8 | PIER 1 | 1/8 | 2/8 | 3/8 | 4/8 | 5/8 | 6/8 | 7/8 | |
|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| CIR. 1 | 224.990 | 225.045 | 225.090 | 225.130 | 225.155 | 225.170 | 225.175 | 225.165 | 225.150 | 225.125 | 225.100 | 225.070 | 225.045 | 225.015 | 224.990 | 224.965 |
| GIR. 2 | 225.035 | 225.090 | 225.135 | 225.170 | 225.200 | 225.215 | 225.215 | 225.210 | 225.195 | 225.170 | 225.145 | 225.115 | 225.090 | 225.060 | 225.035 | 225.005 |
| GIR. 3 | 225.080 | 225.135 | 225.180 | 225.215 | 225.245 | 225.260 | 225.265 | 225.255 | 225.240 | 225.215 | 225.190 | 225.160 | 225.135 | 225.105 | 225.080 | 225.050 |
| GIR. 4 | 225.125 | 225.180 | 225.225 | 225.260 | 225.290 | 225.305 | 225.305 | 225.300 | 225.285 | 225.260 | 225.235 | 225.205 | 225.180 | 225.150 | 225.125 | 225.095 |
| GIR. 5 | 225.170 | 225.225 | 225.270 | 225.305 | 225.330 | 225.350 | 225.350 | 225.345 | 225.330 | 225.305 | 225.280 | 225.250 | 225.225 | 225.195 | 225.170 | 225.140 |
| GIR. 6 | 225.125 | 225.180 | 225.225 | 225.260 | 225.290 | 225.305 | 225.305 | 225.300 | 225.285 | 225.260 | 225.235 | 225.205 | 225.180 | 225.150 | 225.125 | 225.095 |
| GIR. 7 | 225.080 | 225.135 | 225.180 | 225.215 | 225.245 | 225.265 | 225.265 | 225.255 | 225.240 | 225.215 | 225.190 | 225.160 | 225.135 | 225.105 | 225.080 | 225.050 |
| GIR. 8 | 225.035 | 225.090 | 225.135 | 225.170 | 225.200 | 225.215 | 225.215 | 225.210 | 225.195 | 225.170 | 225.145 | 225.115 | 225.090 | 225.060 | 225.035 | 225.005 |
| GIR. 9 | 224.990 | 225.045 | 225.090 | 225.130 | 225.155 | 225.170 | 225.175 | 225.165 | 225.150 | 225.125 | 225.100 | 225.070 | 225.045 | 225.015 | 224.990 | 224.965 |

| PIER 2 | 1/8 | 2/8 | 3/8 | 4/8 | 5/8 | 6/8 | 7/8 | PIER 3 | 1/8 | 2/8 | 3/8 | 4/8 | 5/8 | 6/8 | 7/8 | PIER 4 |
|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 224.935 | 224.910 | 224.880 | 224.855 | 224.825 | 224.800 | 224.770 | 224.745 | 224.720 | 224.690 | 224.665 | 224.635 | 224.610 | 224.580 | 224.555 | 224.525 | 224.500 |
| 224.980 | 224.955 | 224.925 | 224.900 | 224.870 | 224.845 | 224.815 | 224.790 | 224.760 | 224.735 | 224.710 | 224.680 | 224.655 | 224.625 | 224.600 | 224.570 | 224.545 |
| 225.025 | 225.000 | 224.970 | 224.945 | 224.915 | 224.890 | 224.860 | 224.835 | 224.805 | 224.780 | 224.755 | 224.725 | 224.700 | 224.670 | 224.645 | 224.615 | 224.590 |
| 225.070 | 225.045 | 225.015 | 224.990 | 224.960 | 224.935 | 224.905 | 224.880 | 224.850 | 224.825 | 224.800 | 224.770 | 224.745 | 224.715 | 224.690 | 224.660 | 224.635 |
| 225.115 | 225.085 | 225.060 | 225.035 | 225.005 | 224.980 | 224.950 | 224.925 | 224.895 | 224.870 | 224.840 | 224.815 | 224.790 | 224.760 | 224.735 | 224.705 | 224.680 |
| 225.025 | 225.000 | 224.970 | 224.945 | 224.915 | 224.890 | 224.860 | 224.835 | 224.805 | 224.780 | 224.755 | 224.725 | 224.700 | 224.670 | 224.645 | 224.615 | 224.590 |
| 224.980 | 224.955 | 224.925 | 224.900 | 224.870 | 224.845 | 224.815 | 224.790 | 224.760 | 224.735 | 224.710 | 224.680 | 224.655 | 224.625 | 224.600 | 224.570 | 224.545 |
| 224.935 | 224.910 | 224.880 | 224.855 | 224.825 | 224.800 | 224.770 | 224.745 | 224.720 | 224.690 | 224.665 | 224.635 | 224.610 | 224.580 | 224.555 | 224.525 | 224.500 |

| 1/8 | 2/8 | 3/8 | 4/8 | 5/8 | 6/8 | 7/8 | PIER 5 | 1/8 | 2/8 | 3/8 | 4/8 | 5/8 | 6/8 | 7/8 | PIER 6 | 1/8 | 2/8 | 3/8 | 4/8 | 5/8 | 6/8 | 7/8 | N. ABUT. |
|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|
| 224.475 | 224.445 | 224.420 | 224.390 | 224.365 | 224.335 | 224.310 | 224.280 | 224.255 | 224.230 | 224.200 | 224.175 | 224.145 | 224.120 | 224.090 | 224.065 | 224.035 | 224.010 | 223.985 | 223.955 | 223.930 | 223.900 | 223.875 | 223.850 |
| 224.515 | 224.490 | 224.465 | 224.435 | 224.410 | 224.380 | 224.355 | 224.325 | 224.300 | 224.275 | 224.245 | 224.220 | 224.190 | 224.165 | 224.135 | 224.110 | 224.080 | 224.055 | 224.030 | 224.000 | 223.975 | 223.945 | 223.920 | 223.895 |
| 224.560 | 224.535 | 224.510 | 224.480 | 224.455 | 224.425 | 224.400 | 224.370 | 224.345 | 224.315 | 224.290 | 224.265 | 224.235 | 224.210 | 224.180 | 224.155 | 224.125 | 224.100 | 224.075 | 224.045 | 224.020 | 223.990 | 223.965 | 223.935 |
| 224.605 | 224.580 | 224.555 | 224.525 | 224.500 | 224.470 | 224.445 | 224.415 | 224.390 | 224.360 | 224.335 | 224.310 | 224.280 | 224.255 | 224.225 | 224.200 | 224.170 | 224.145 | 224.120 | 224.090 | 224.065 | 224.035 | 224.010 | 223.980 |
| 224.650 | 224.625 | 224.595 | 224.570 | 224.545 | 224.515 | 224.490 | 224.460 | 224.435 | 224.405 | 224.380 | 224.355 | 224.325 | 224.300 | 224.270 | 224.245 | 224.215 | 224.190 | 224.160 | 224.135 | 224.110 | 224.080 | 224.055 | 224.025 |
| 224.605 | 224.580 | 224.555 | 224.525 | 224.500 | 224.470 | 224.445 | 224.415 | 224.390 | 224.360 | 224.335 | 224.310 | 224.280 | 224.255 | 224.225 | 224.200 | 224.170 | 224.145 | 224.120 | 224.090 | 224.065 | 224.035 | 224.010 | 223.980 |
| 224.560 | 224.535 | 224.510 | 224.480 | 224.455 | 224.425 | 224.400 | 224.370 | 224.345 | 224.315 | 224.290 | 224.265 | 224.235 | 224.210 | 224.180 | 224.155 | 224.125 | 224.100 | 224.075 | 224.045 | 224.020 | 223.990 | 223.965 | 223.935 |
| 224.515 | 224.490 | 224.465 | 224.435 | 224.410 | 224.380 | 224.355 | 224.325 | 224.300 | 224.275 | 224.245 | 224.220 | 224.190 | 224.165 | 224.135 | 224.110 | 224.080 | 224.055 | 224.030 | 224.000 | 223.975 | 223.945 | 223.920 | 223.895 |
| 224.475 | 224.445 | 224.420 | 224.390 | 224.365 | 224.335 | 224.310 | 224.280 | 224.255 | 224.230 | 224.200 | 224.175 | 224.145 | 224.120 | 224.090 | 224.065 | 224.035 | 224.010 | 223.985 | 223.955 | 223.930 | 223.900 | 223.875 | 223.850 |



| | | | |
|-----|------|----------|----|
| NO. | DATE | REVISION | BY |
| | | | |

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-44-187

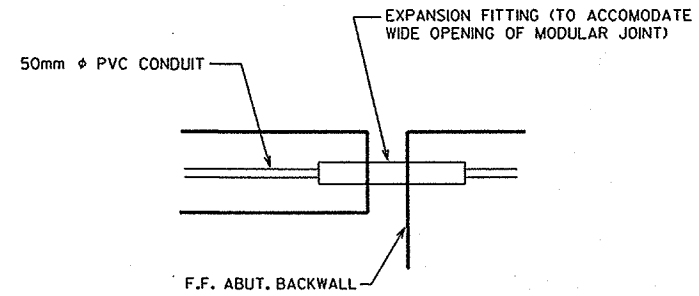
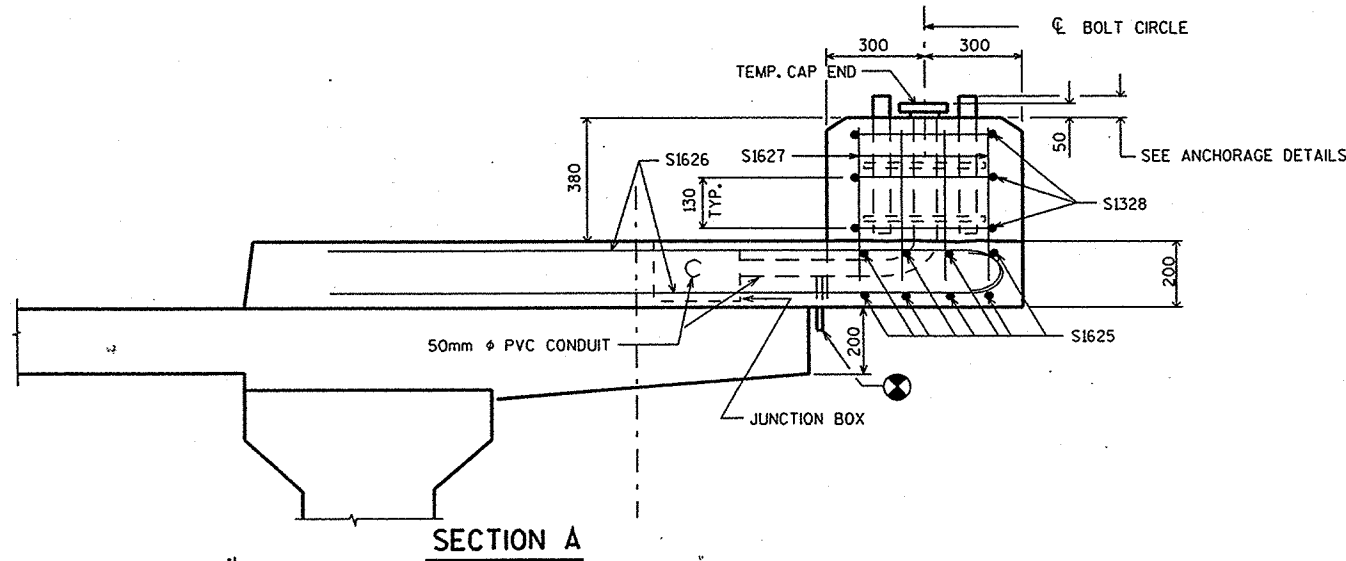
CONST. SPEC. 1996 DRAWN BY CMPT/JHG PLANS CKD. ZIRK

SUPERSTRUCTURE DETAILS SHEET 15

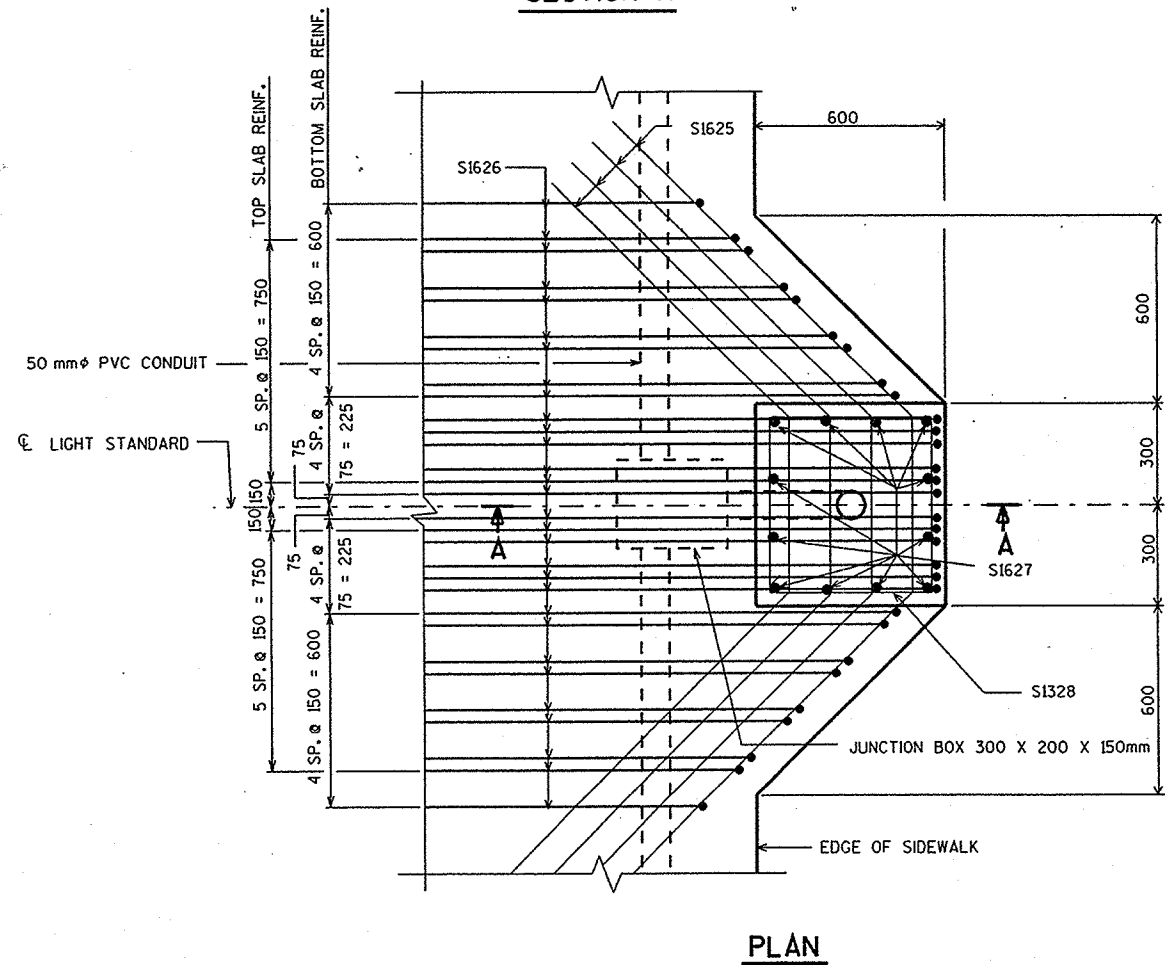
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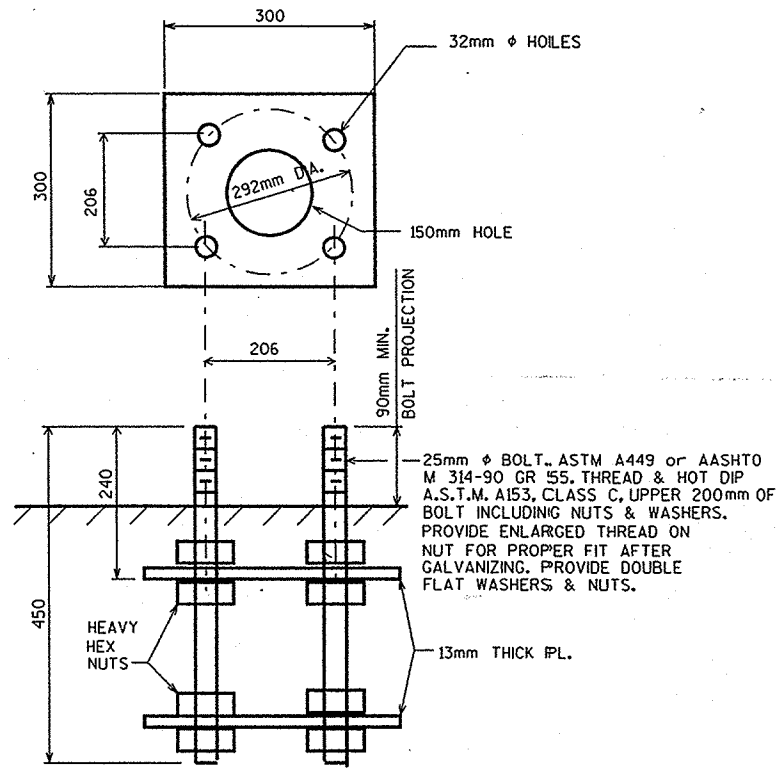
⊗ STANDARD TEE & GALVANIZED PIPE STUB-
STUB TO PROJECT 25mm BELOW BOTTOM OF
SLAB. LOCATE DRAIN AT LOW POINT IN
EACH RUN OR AT OTHER LOCATIONS
WHERE CONDUIT DOES NOT DRAIN.



CONDUIT EXP. FITTING AT ABUT'S.
TO BE INCIDENTAL TO BID ITEM, "NON-METALLIC
CONDUIT, SCHEDULE 40, 50mm"



PLAN



ANCHORAGE DETAIL 'B'

(KAUKAUNA WATER & ELECTRIC LIGHTS)
NOTE: TO BE PAID FOR AS 'ANCHOR ASSEMBLY LIGHT POLES' EA.

| NO. | DATE | REVISION | BY |
|--|------|--------------|------------------|
| STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS | | | |
| STRUCTURE B-44-187 | | | |
| CONST. SPEC. | 1996 | DRAWN BY JHG | PLANS CK'D. ZIRK |
| LIGHTING DETAILS | | | SHEET 16 |

FILE= 187LITE.DGN
SCALE = 1/50

GIRDER NOTES

ALL DIMENSIONS ARE IN MILLIMETERS.

TOP OF GIRDER TO BE ROUGH FLOATED AND BROOMED TRANSVERSELY, EXCEPT THE OUTSIDE 50 mm OF GIRDER, WHICH SHALL BE TROWEL FINISHED.

THE GIRDERS SHALL BE PROVIDED WITH A SUITABLE LIFTING DEVICE FOR HANDLING AND ERECTING THE GIRDERS.

PRESTRESSING STRANDS SHALL BE 13 mm ϕ - 7 WIRE LOW-RELAXATION STRANDS WITH AN ULTIMATE STRENGTH OF 1860 MPa AND SHALL BE FLUSH WITH THE ENDS OF THE GIRDER.

BEND EACH END OF #13 STIRRUPS 120 mm AND #19 STIRRUPS 180 mm.

FOR DIAPHRAGM INSERT & CONNECTION DETAILS SEE "STEEL DIAPHRAGM" SHEET.

ON MULTIPLE SPAN STRUCTURES, SET THE END BLOCK LENGTHS OF GIRDERS RESTING ON THE SAME PIER TO \pm 50 mm. ON SIMPLE SPANS, SET THE END BLOCK LENGTH ON BOTH GIRDER ENDS TO \pm 50 mm.

IF THE CONTRACTOR USES BOTTOM FLANGE TO SUPPORT CONSTRUCTION FORMS, THE CONTRACTOR SHALL SUBMIT FALSEWORK PLANS FOR APPROVAL OF THE ENGINEER.

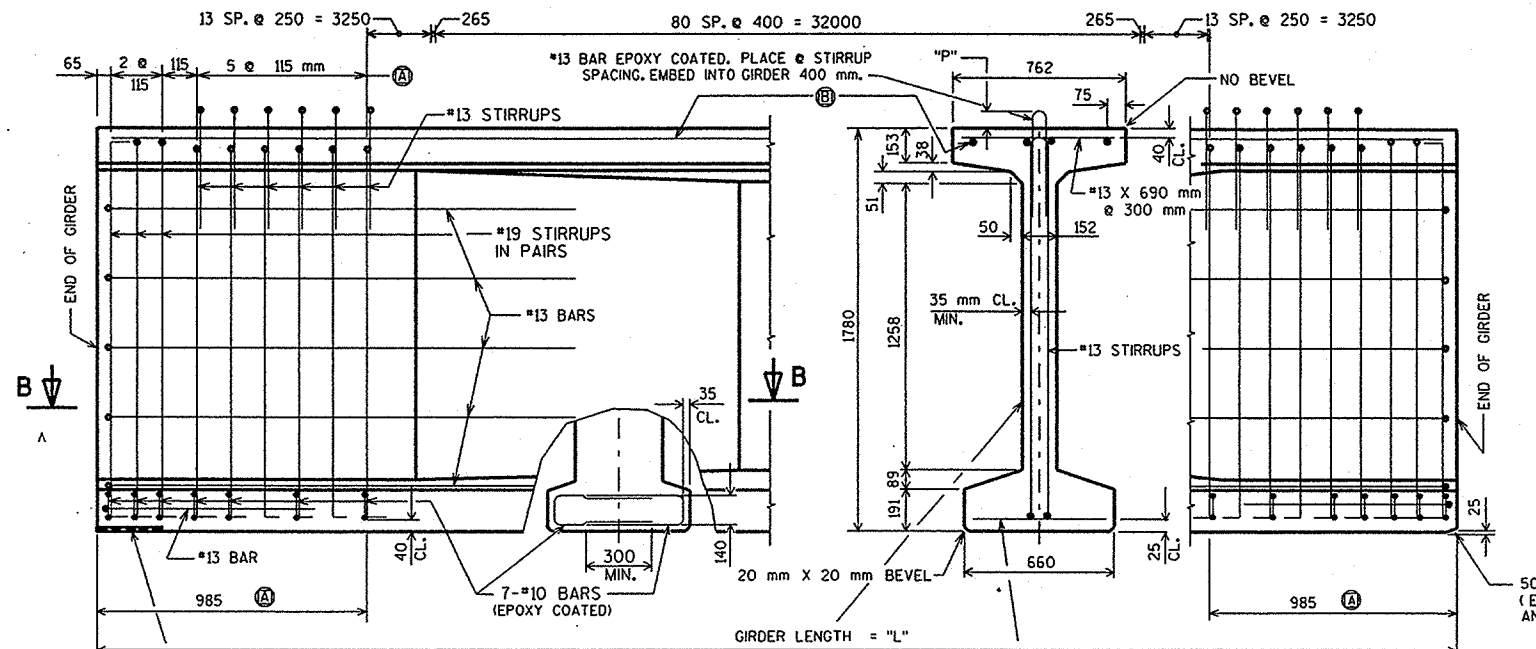
ALL GIRDERS SHALL BE CAST FULL LENGTH AS SHOWN.

- SPACING SHOWN FOR #13 STIRRUPS IS FOR GRADE 420 REINFORCEMENT. IF THE FABRICATOR WANTS TO BUILD A STEEL CAGE BY WELDING LONGITUDINAL REINFORCEMENT TO THE #13 STIRRUPS, 2 OPTIONS ARE AVAILABLE:
1. USE ASTM A706M, GRADE 420 REINFORCEMENT AND THE STIRRUP SPACING AS SHOWN ON THE PLANS.
 2. USE ASTM A615M, GRADE 300 REINFORCEMENT AND A MODIFIED STIRRUP SPACING SUBMITTED TO AND APPROVED BY THE STRUCTURES DEVELOPMENT SECTION.

AN ALTERNATE EQUIVALENT OF WELDED WIRE FABRIC (WWF) MAY BE SUBSTITUTED FOR THE STIRRUP REINFORCEMENT SHOWN UPON APPROVAL OF THE STRUCTURES DEVELOPMENT SECTION

WELDED WIRE FABRIC SHALL CONFORM TO THE REQUIREMENTS OF ASTM A497.

ENDS OF STRANDS SHALL BE PAINTED WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (THIS APPLIES ONLY TO THOSE ENDS OF GIRDERS THAT ARE FINALLY EXPOSED.)



BEVELED ANCHOR PLATE SEE 'BEARING DETAILS' SHT.

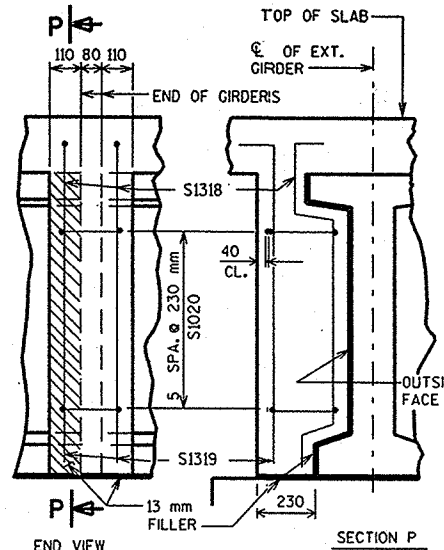
SIDE VIEW & TYPICAL SECTION IN SPAN

#13 BARS X 590 mm LG. PLACE AT STIRRUP SPACING BETWEEN 0.25 POINTS AND ENDS OF GIRDER, EXCEPT IN REGION (A)

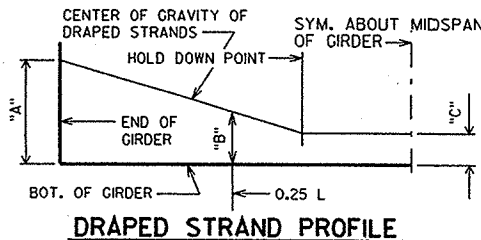
- (A) DETAIL TYP. AT EACH END.
- (B) 4 - BARS FULL LENGTH.

- (SPAN 1) 4 #13, 600 MIN. LAP
- (SPAN 2) 4 #13, 600 MIN. LAP
- (SPAN 3) 4 #13, 600 MIN. LAP
- (SPAN 4) 4 #13, 600 MIN. LAP
- (SPAN 5) 4 #13, 600 MIN. LAP
- (SPAN 6) 4 #13, 600 MIN. LAP
- (SPAN 7) 4 #13, 600 MIN. LAP

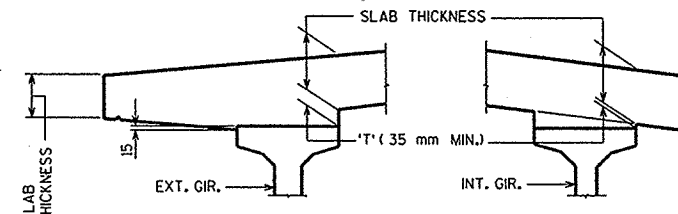
NOTE: INSERT FOR DRAIN BRACKET REQ'D. SEE SHEET 1 FOR DRAIN LOCATION. SEE SHEET 20 FOR INSERT LOCATION.



PILASTER DETAILS AT PIERS



DRAPED STRAND PROFILE

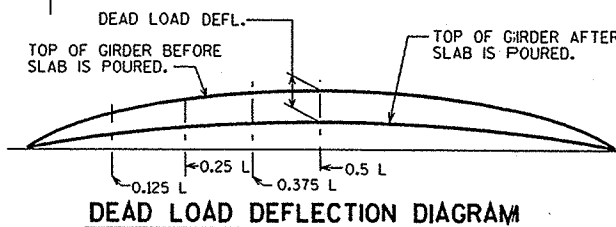


SLAB HAUNCH DETAIL

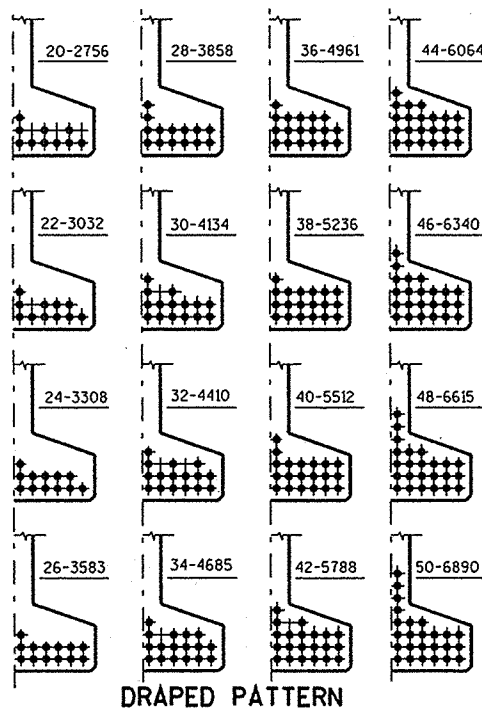
IF 35 mm MINIMUM HAUNCH HEIGHT 'T' CANNOT BE MAINTAINED, THE GRADE LINE MAY BE REVISED BY THE ENGINEER AT THE OPTION OF THE CONTRACTOR. THE PLAN SLAB THICKNESS SHALL BE HELD. NOTIFY BRIDGE OFFICE FOR HAUNCH HEIGHTS OVER 100 mm.

TO DETERMINE 'T', ELEV'S. OF TOP OF GIR'S. AT ϕ OF SUBSTRUCTURE UNITS & AT 0.25 POINTS OF EACH SPAN SHALL BE TAKEN. THEN FOLLOW THIS PROCESS:

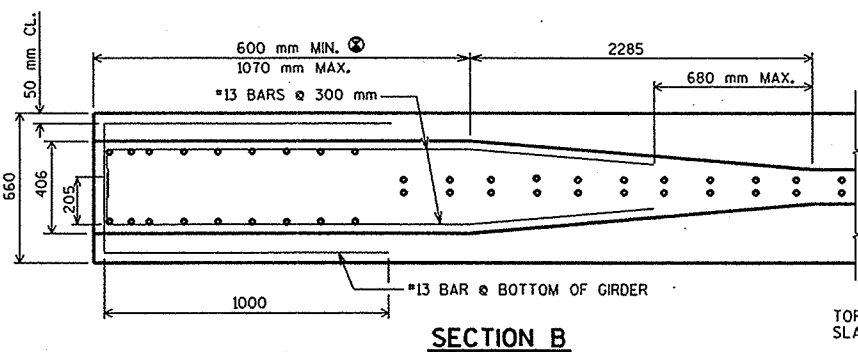
- TOP OF DECK ELEV. AT FINAL GRADE
- TOP OF GIRDER ELEVATION
- + DEAD LOAD DEFLECTION
- SLAB THICKNESS
- = HAUNCH HEIGHT 'T'



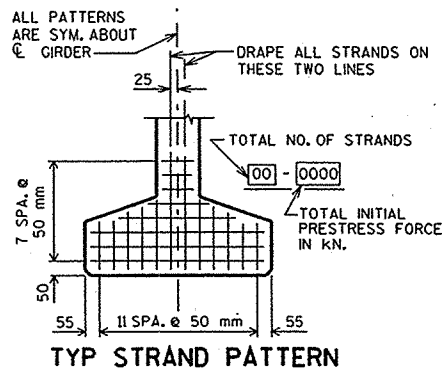
DEAD LOAD DEFLECTION DIAGRAM



DRAPED PATTERN



SECTION B

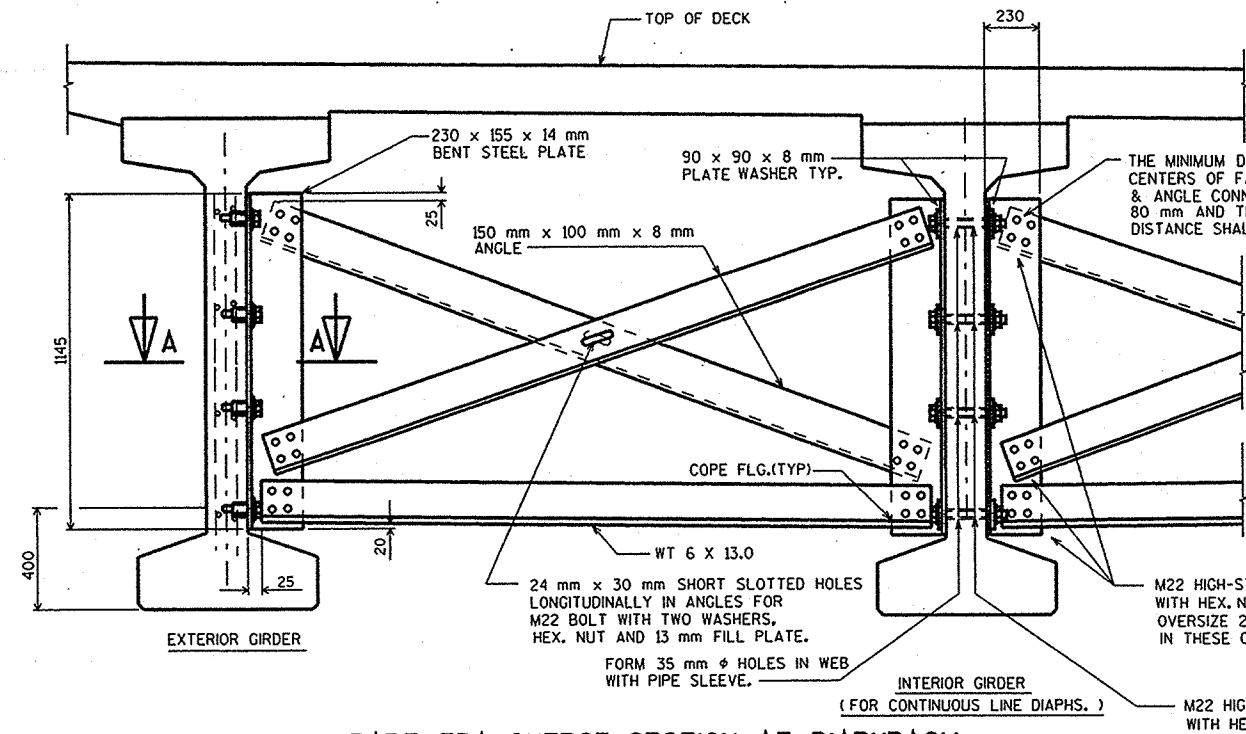


TYP STRAND PATTERN

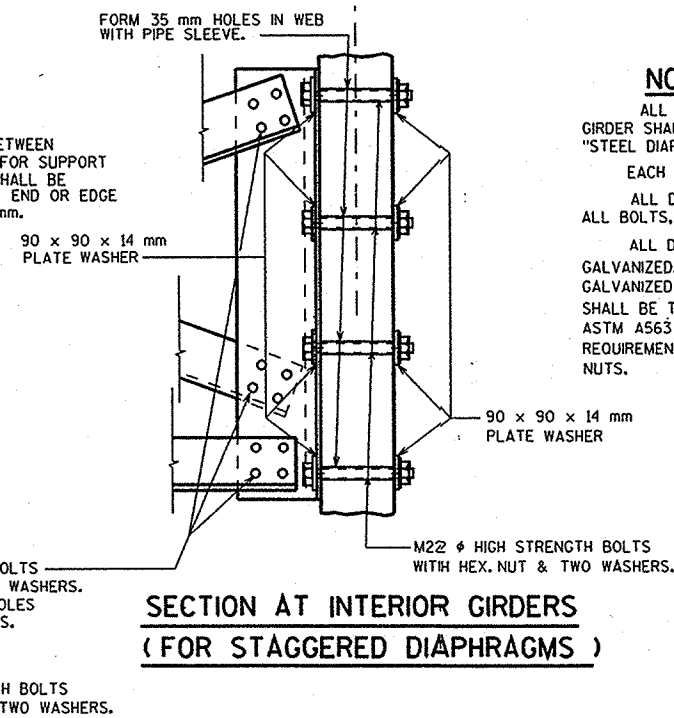
* MINIMUM CYLINDER STRENGTH OF CONCRETE @ TIME OF TRANSFER OF PRESTRESS FORCE.

| SPAN | GIRDER LENGTH "L" (mm) | DEAD LOAD DEFL. (mm) | | | | | CONC. STRGTH. f'c (MPa) | "p" | TOTAL NO. OF STRANDS | DRAPED PATTERN (mm) | | | | UNDRAPED PATTERN TOTAL NO. OF STRANDS | f'ci (MPa) * |
|-------|------------------------|----------------------|-----|------|----|-----|-------------------------|-----|----------------------|---------------------|----------|-----|-----|---------------------------------------|--------------|
| | | .125 | .25 | .375 | .5 | "A" | | | | "B" MIN. | "B" MAX. | "C" | | | |
| | | | | | | "A" | | | | "B" MIN. | "B" MAX. | "C" | | | |
| 1 & 7 | 41000 | 23 | 40 | 50 | 53 | 42 | 150 | 48 | 36 | 1575 | 546 | 622 | 203 | 0 | 0 |
| 2-6 | 41000 | 24 | 41 | 51 | 54 | 42 | 150 | 42 | 33 | 1626 | 521 | 597 | 152 | 0 | 0 |

| NO. | DATE | REVISION | BY |
|---|------|----------|----------|
| STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION | | | |
| STRUCTURE B-44-187 | | | |
| CONST. SPEC. | 1996 | DRAWN BY | JHG |
| PLANS Ckd. | ZJK | | |
| 1780 mm PRESTRESSED GIRDER DETAILS | | | SHEET 17 |



PART TRANSVERSE SECTION AT DIAPHRAGM



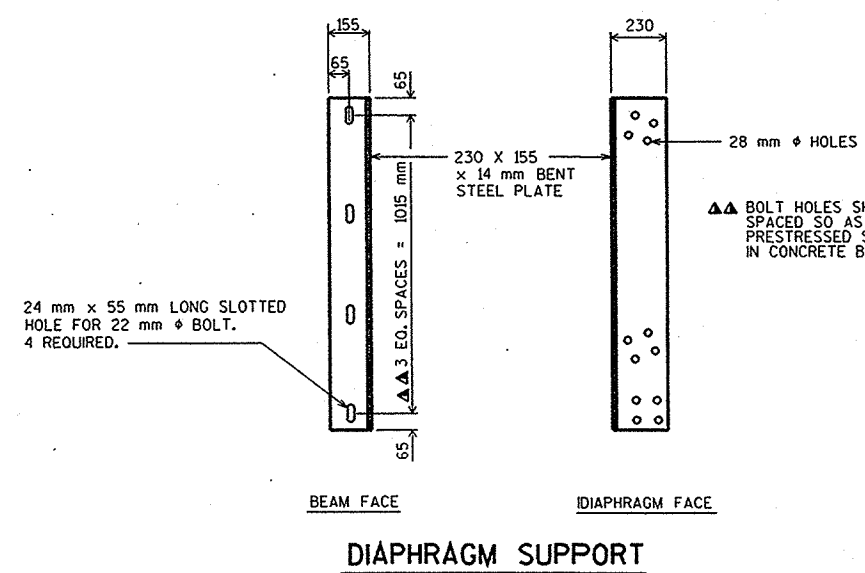
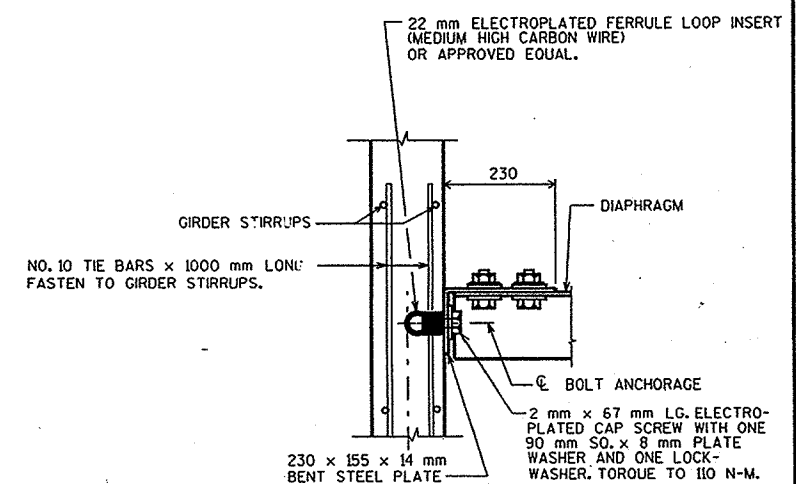
NOTES

ALL DIAPHRAGM MATERIAL NOT EMBEDDED IN THE CONCRETE GIRDER SHALL BE PAID FOR AT THE UNIT PRICE BID FOR "STEEL DIAPHRAGM".

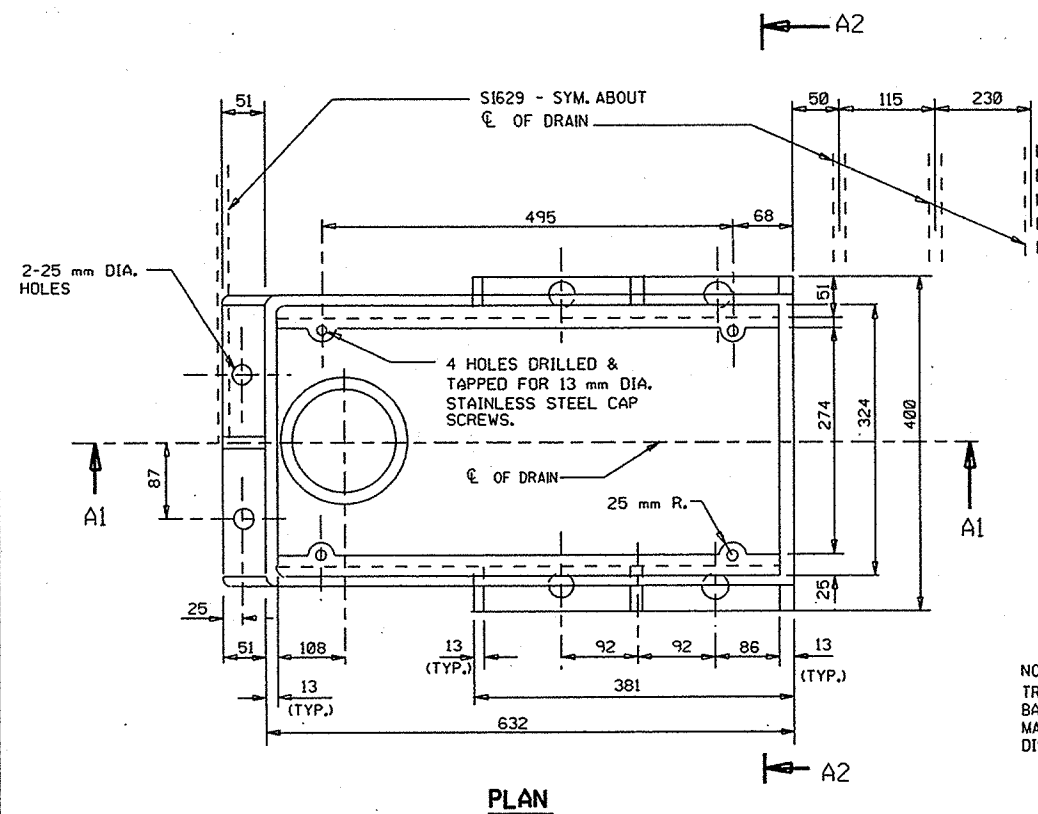
EACH DIAPHRAGM BETWEEN GIRDERS SHALL CONSTITUTE ONE UNIT.

ALL DIAPHRAGM STRUCTURAL STEEL SHALL BE ASTM A709 GRADE 36. ALL BOLTS, NUTS AND WASHERS SHALL BE ASTM A325 TYPE 1.

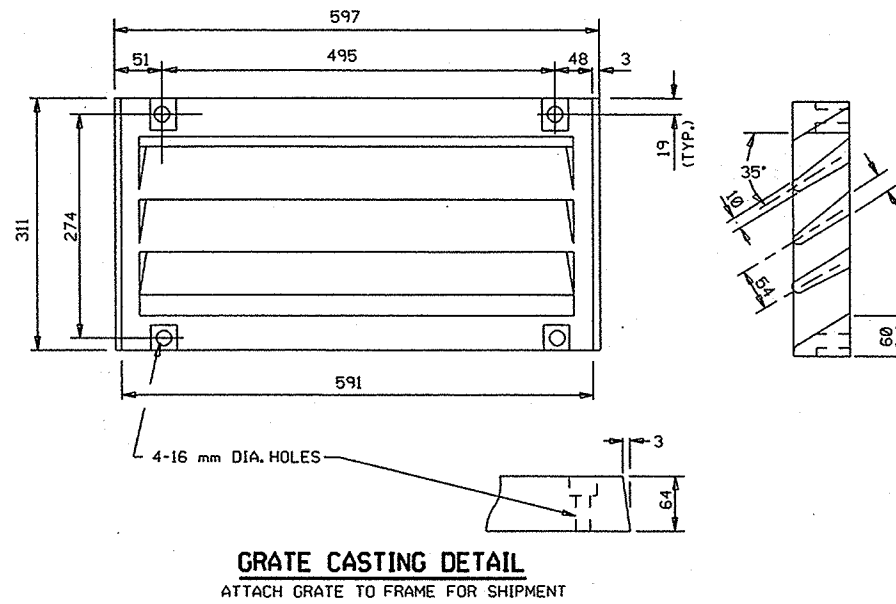
ALL DIAPHRAGM STRUCTURAL STEEL SHOWN SHALL BE HOT-DIPPED GALVANIZED. ALL BOLTS, NUTS AND WASHERS SHALL BE HOT-DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A153 CLASS C. GALVANIZED NUTS SHALL BE TAPPED OVERSIZE IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM A563 AND SHALL MEET THE REQUIREMENTS OF SUPPLEMENTARY REQUIREMENT S1 OF ASTM A563, LUBRICANT AND TEST FOR COATED NUTS.



| | | | |
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| NO. | DATE | REVISION | BY |
| STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS | | | |
| STRUCTURE | | B-44-187 | |
| CONST. SPEC. | 1996 | DRAWN BY | JHG |
| | | PLANS CK'D. | ZIRK |
| STEEL DIAPHRAGM | | | SHEET 18 |



NOTE:
TRANS. AND LONGIT. SLAB
BAR REINF. TO BE CUT A
MAX. 25 mm CL. FROM DRAIN.
DISPLACE BARS WHERE POSSIBLE



GENERAL NOTES

ALL MATERIAL FOR TYPE 'GC' CASTING, EXCLUDING GRATE HOLD DOWN SCREWS, SHALL BE GRAY IRON CONFORMING TO A.S.T.M. A48, CLASS 30. (APPROX. WEIGHT = 102 Kg)

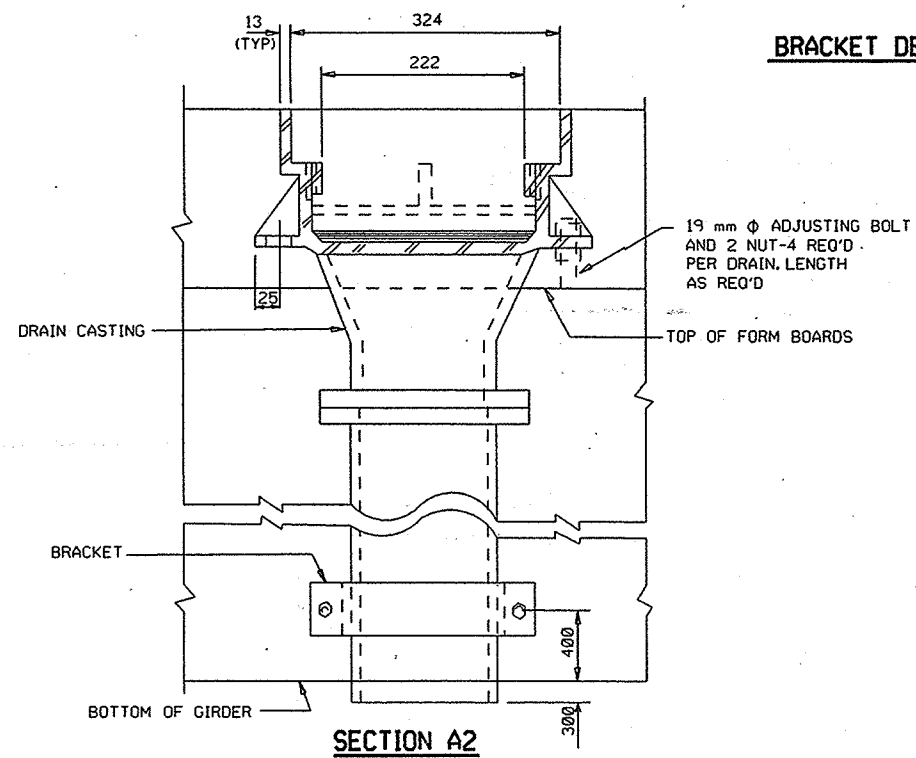
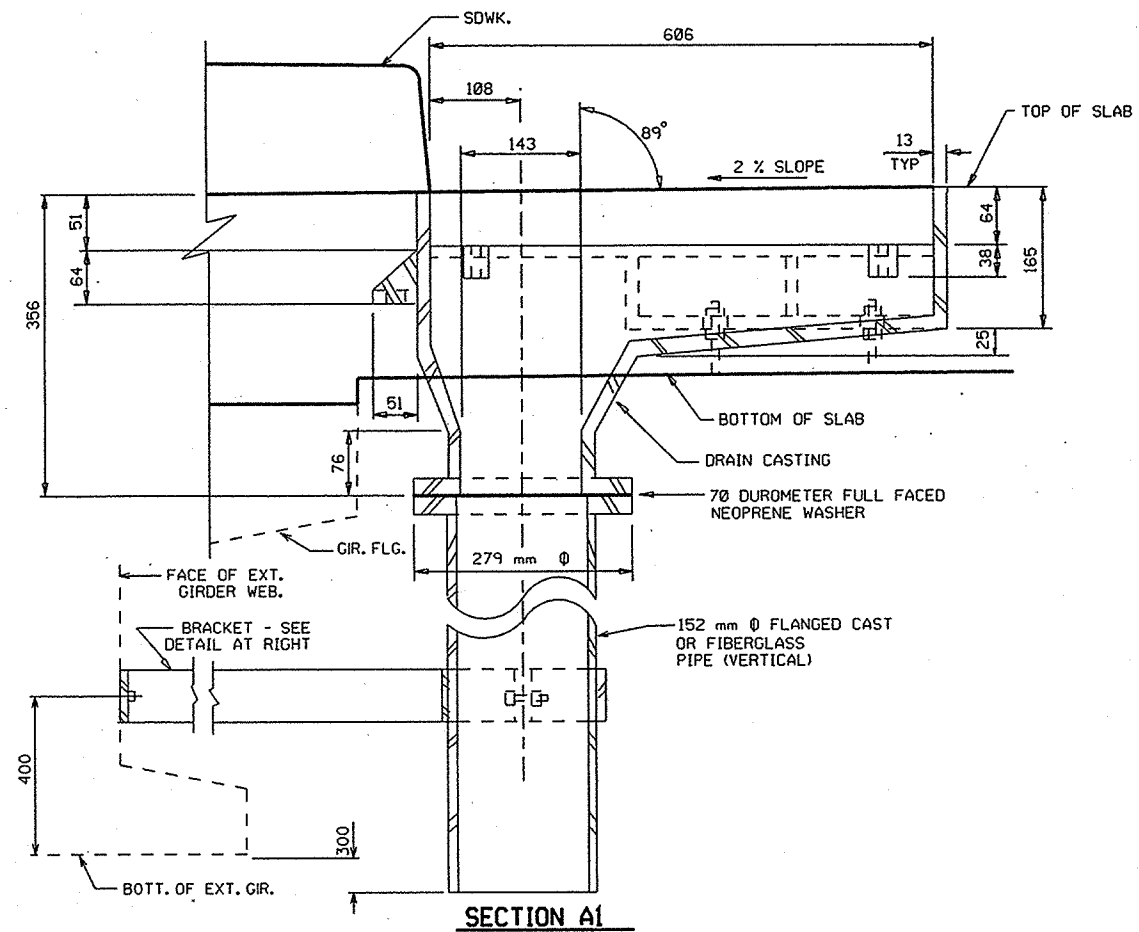
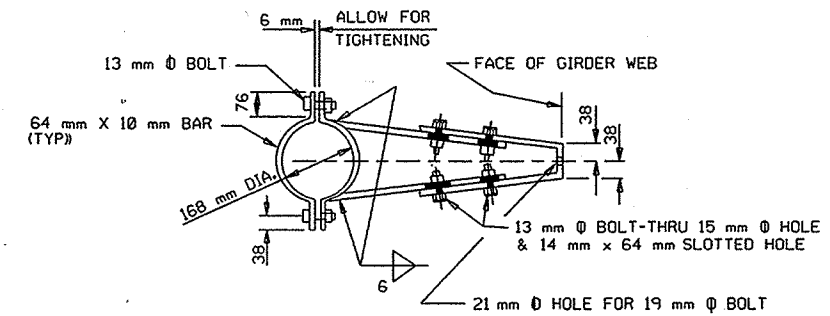
MATERIAL FOR BRACKETS SHALL CONFORM TO A.S.T.M. A36M.

THE CONTRACTOR MAY PROPOSE AN ALTERNATE TYPE OF BRACKET. THE PROPOSED ALTERNATE DETAILS SHALL BE SUBMITTED AND SUBJECT TO THE APPROVAL OF THE ENGINEER.

FLANGED 150 mm DIA. DOWNSPOUTS SHALL BE EITHER CAST MATERIAL OR FIBERGLASS CONFORMING TO A.S.T.M. D2996, GRADE 1, CLASS A.

ALL DIMENSIONS ARE IN MILLIMETERS.

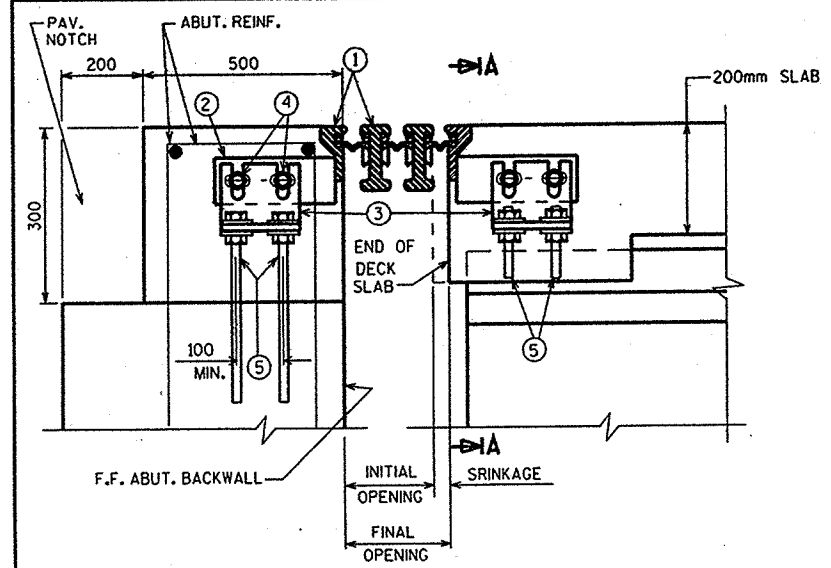
SEE SHEET 1 FOR DRAIN LOCATIONS.



| NO. | DATE | REVISION | BY |
|--|------|--------------|-----------------|
| STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS | | | |
| STRUCTURE B-44-187 | | | |
| CONST. SPEC. | 1996 | DRAWN BY JHG | PLANS CKD. ZIRK |
| FLOOR DRAINS | | | SHEET 20 |

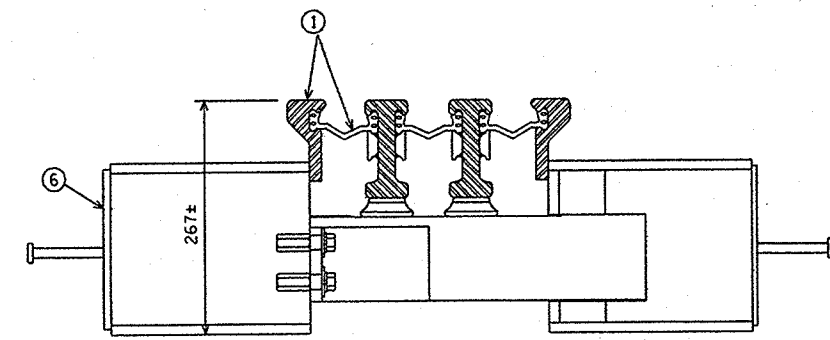
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| STATE PROJECT NUMBER | SHEET NO. |
| 4676-03-71 | 8.21 |

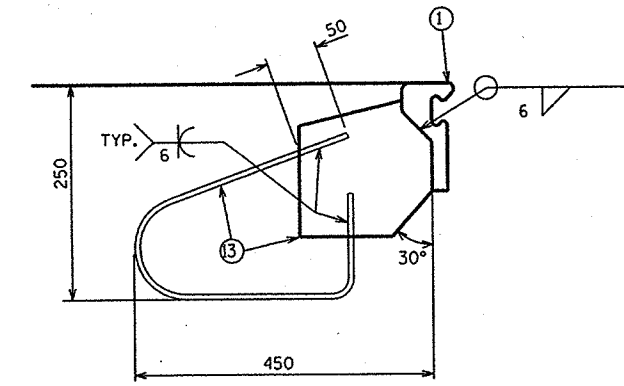


SECTION THRU JOINT

NOTE:
TEMPERATURE TABLE FOR INITIAL JOINT OPENINGS TO BE DETERMINED BY JOINT MANUFACTURER WITH THE FOLLOWING DESIGN DATA:
1. 15mm OF MOVEMENT PER 10° C.
2. MEDIAN TEMPERATURE OF 5° C.
3. TEMP. RANGE -25° C. TO +40° C.
4. ADJUST INITIAL JOINT OPENING FOR AN INCREASE OF 45mm DUE TO SHRINKAGE OF THE DECK OVER TIME.



JOINT DETAIL



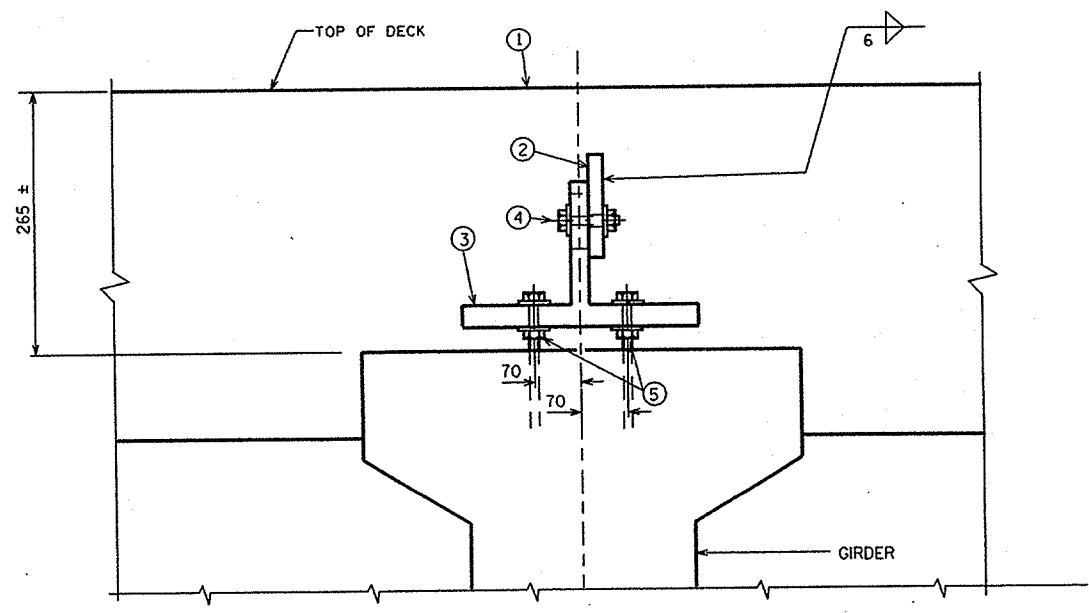
ANCHORAGE DETAIL

- LEGEND**
- ① MODULAR EXPANSION JOINT DEVICE
 - ② 13mm PLATE, ONE PER GIRDER MIN. PROVIDE 2-25x50 SLOTTED HOLES PLACED HORIZONTALLY FOR NO.4.
 - ③ WT 155 x 44, ONE PER GIRDER. PROVIDE 25 x 75 SLOTTED HOLES PLACED VERTICALLY IN WEB OF WT FOR BOLTS NO.4.
 - ④ 19mm ϕ HIGH STRENGTH BOLTS WITH NUTS & WASHERS. (A325 TYPE 3)
 - ⑤ 19mm ϕ THREADED ROD WITH 2 NUTS & WASHERS. GROUT THREADED ROD INTO ABUT. BACKWALL & ON ϕ OF GIR. FLG..
 - ⑥ SUPPORT BAR ASSEMBLY COVER BOX (SPA, PER MANUFACTURER) SPACE TO MISS GIRDERS. FABRICATE FROM 13mm PL'S.
 - ⑦ 10mm BULKHEAD PLATE. WELD TO NO.1 AND NO. 8.
 - ⑧ INSIDE PLATE. FABRICATE FROM 10mm PLATE. WELD TO # 1.
 - ⑨ OUTSIDE PLATE. FABRICATE FROM 19mm PLATE.
 - ⑩ 25mm SO. BAR. WELD TO NO. 8 AS SHOWN.
 - ⑪ 19mm ϕ x 100mm LONG STUDS. WELD TO NO. 8 & NO. 7 AS SHOWN.
 - ⑫ 19mm ϕ x 38mm LONG STAINLESS STEEL FLAT HEAD MACHINE SCREWS. RECESS 2mm BELOW PLATE SURFACE.
 - ⑬ 13mm PLATE WITH 16mm ϕ LOOP ANCHOR FABRICATED AS SHOWN SPACED AT MFR'S. SPEC.
 - ⑭ NOT USED.
 - ⑮ ADIPRENE BUTTON. SEE DETAIL. SET IN OUTSIDE PLATE.
 - ⑯ 19mm DIA. X 100mm LG. GALV. HEX. HEAD BOLT. BEND 45°.
 - ⑰ 19mm DIA. X 57mm LG. GALV.-THREADED COUPLING.

NOTES

ONE FIELD SPlice PERMITTED IN STEEL EXTRUSIONS. DETAILS SHALL B.E SUBMITTED. NO SPLICING PERMITTED IN NEOPRENE GLAND. AFTER FABRICATION, BUT BEFORE SHIPMENT, STRAIGHTEN STEEL EXTRUSIONS SUCH THAT THEY SHALL BE FREE FROM WARP, TWIST & SWEEP. NO EXPANSION JOINT PROTRUSIONS PERMITTED ABOVE ROADWAY SURFACE OR SIDEWALK SURFACE. THE EXPANSION JOINT SEALS SHALL BE PLACED, BIONDED & SEALED AS RECOMMENDED BY THE MANUFACTURER. EXPANSION JOINT EXTRUSIONS SHALL BE FABRICATED TO CONFORM TO ROADWAY CROWN & GRADE. COST OF FURNISHING & PLACING OF THE EXPANSION JOINTS COMPLETE WITH BARS, DIAPH. SUPPORT ANGLES & SDWK. PLATES SHALL BE PAID FOR LINDER THE PRICE BID FOR 'MODULAR EXPANSION JOINT'.

FABRICATOR SHALL PROVIDE MEANS OF KEEPING GALVANIZED EXTRUSIONS CLEAN AND SMOOTH.
SANDBLAST PLATES & EXTRUSIONS AFTER FABRICATION IN ACCORDANCE WITH SSPC SP. # 6 "COMMERCIAL BLAST CLEANING". AFTER BLAST CLEANING THE PLATES AND EXTRUSIONS SHALL BE HOT DIPPED GALVANIZED.
ANCHOR SYSTEM # 16 & # 17 SHALL CONFORM TO ASTM A307 & SHALL BE GALV. IN ACCORDANCE WITH ASTM 153 CLASS C & D.

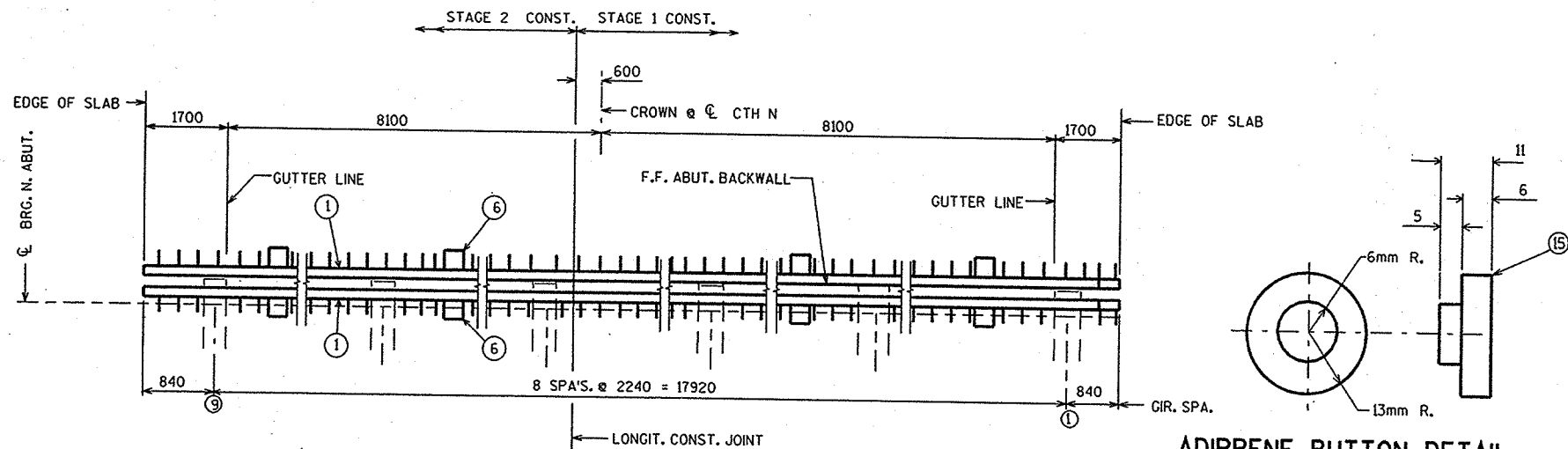


SECTION A-A

| | | | |
|--|------|------------|----------|
| NO. | DATE | REVISION | BY |
| STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS | | | |
| STRUCTURE B-44-187 | | | |
| CONST. SPEC. | 1996 | DRAWN BY | JHG |
| | | PLANS CVD. | |
| EXPANSION DEVICE | | | SHEET 21 |

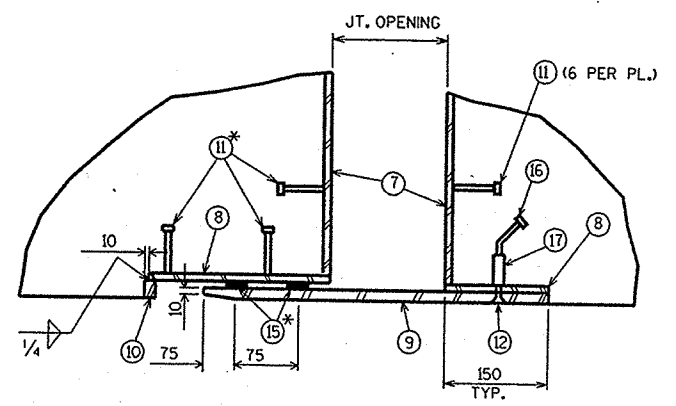
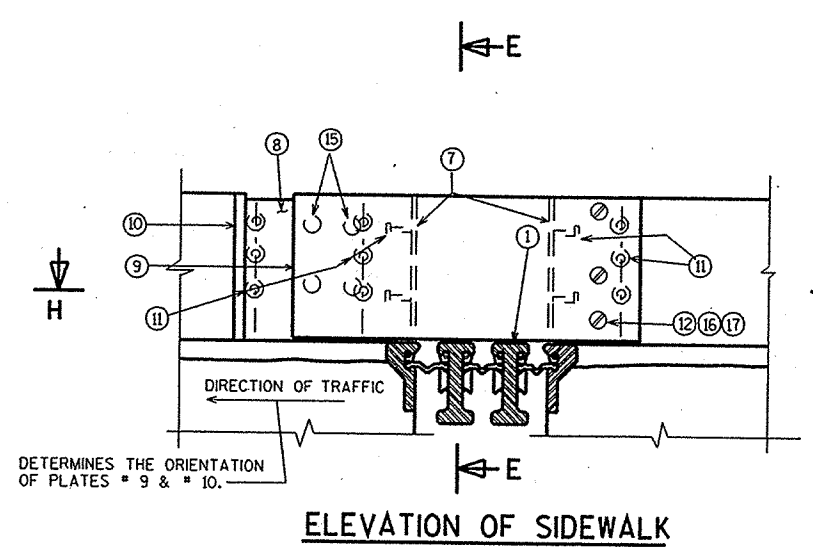
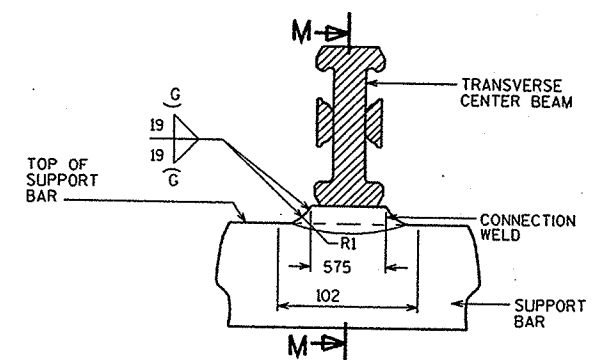
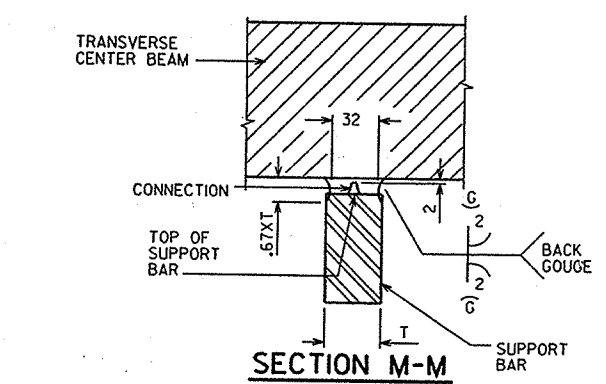
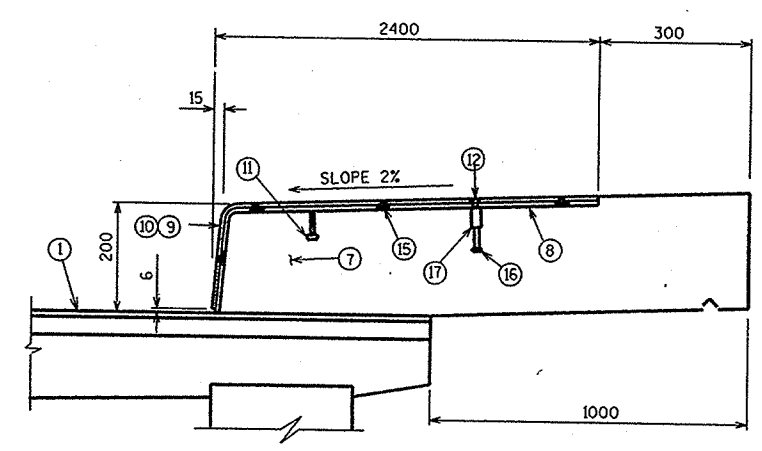
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|----------------------|-----------|
| STATE PROJECT NUMBER | SHEET NO. |
| 4676-03-71 | 8.22 |



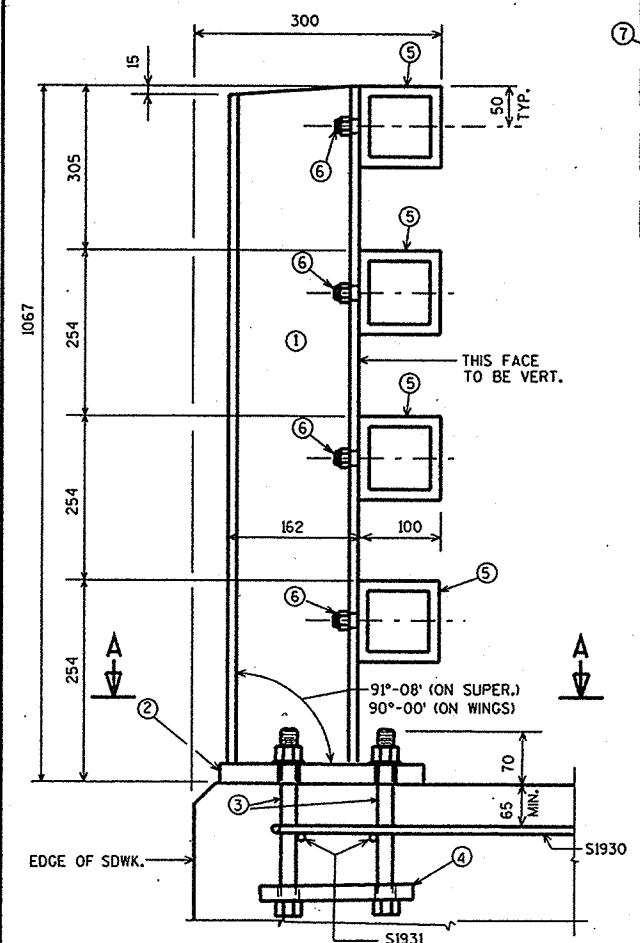
NOTE:
 FABRICATOR WILL DESIGN EACH JOINT DEPENDING ON THE CONDITIONS AND THE DESIGN CRITERIA.
 FABRICATION DRAWING IS SUBJECT TO THE APPROVAL OF THE BRIDGE OFFICE.
 SUPPORT BOXES ARE SHOWN FOR GENERAL INFORMATION AND MAY VARY ACCORDING TO FABRICATOR DESIGN.

SOUTH ABUT. SHOWN
 NORTH ABUT. SIMILAR

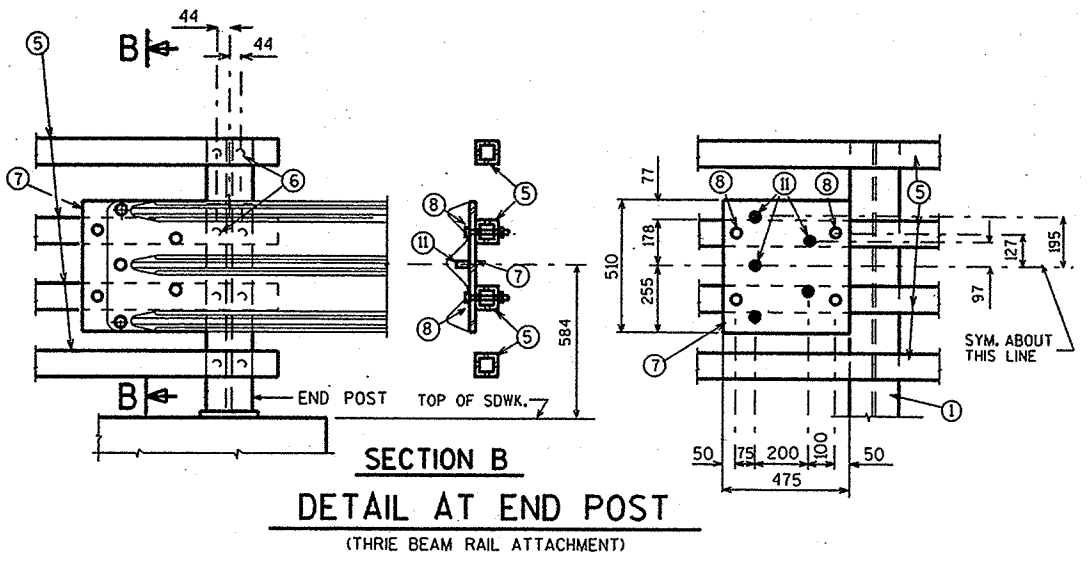


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|--|------|------------|------|
| NO. | DATE | REVISION | BY |
| STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS | | | |
| STRUCTURE B-44-187 | | | |
| CONST. SPEC. | 1996 | DRAWN BY | JHG |
| | | PLANS CRD. | ZIRK |
| EXPANSION DEVICE | | SHEET 22 | |

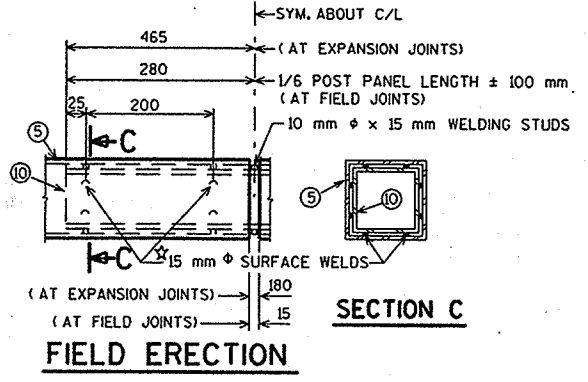
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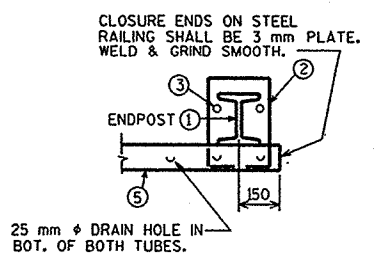
SECTION THRU RAILING



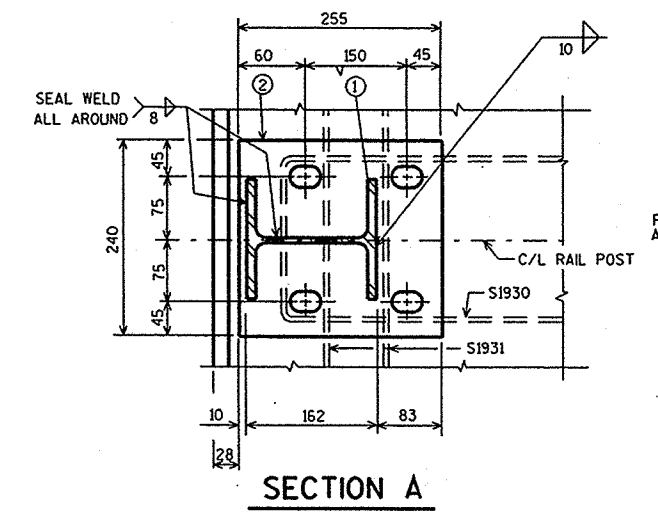
SECTION B
DETAIL AT END POST
(THREE BEAM RAIL ATTACHMENT)



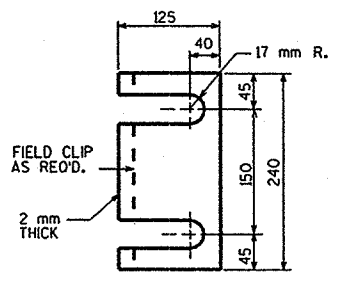
SECTION C
FIELD ERECTION
JOINT DETAIL



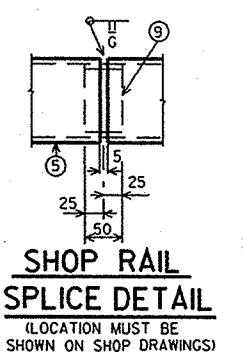
DETAIL FOR END POSTS



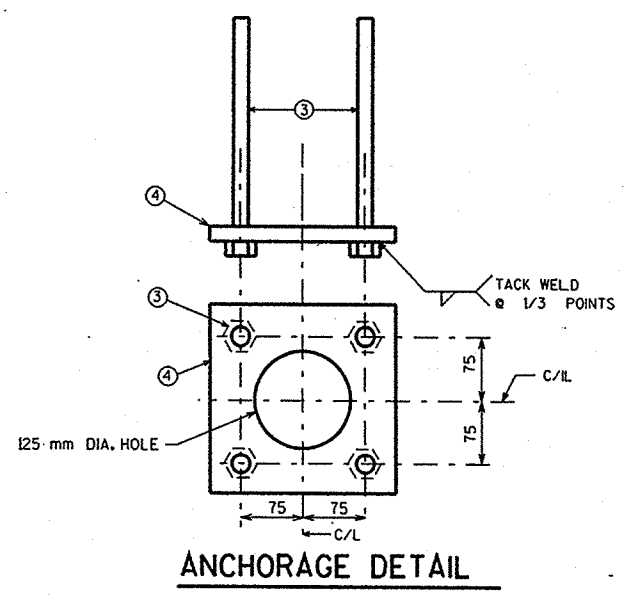
SECTION A



POST SHIM
DETAIL
(4 PER POST)



SHOP RAIL
SPLICE DETAIL
(LOCATION MUST BE SHOWN ON SHOP DRAWINGS)



ANCHORAGE DETAIL

LEGEND

- ① W150X37 WITH 35 mm DIA. HOLES ON EACH SIDE OF POST FOR STUD NO. 6. CUT BOTTOM OF POST TO MATCH CROSS SLOPE OF ROADWAY. PLACE POST VERTICAL. PLACE POSTS NORMAL TO GRADE LINE.
- ② PLATE 25 mm X 240 mm X 255 mm WITH 27 mm X 40 mm SLOTTED HOLES FOR ANCHOR BARS NO. 3. WELD TO NO. 1 AS SHOWN.
- ③ A325M- M22 X 200 mm LONG HEX BOLTS (GALVANIZED) WITH A325M NUT & WASHER. 4 REQ'D. PER POST. THREAD 75 mm AND PLACE NORMAL TO PLATE NO. 2. CHAMFER TOP OF BOLTS BEFORE THREADING. USE 360mm LONG AT END POST.
- ④ 6 mm X 200 mm X 200 mm FLAT BAR, WITH 24 mm DIA. HOLES FOR ANCHOR BOLTS NO. 3.
- ⑤ TS- 102 X 102 X 6.4 STRUCTURAL TUBING, CONFORMING TO A.S.T.M. DESIGNATION A501 OR A500 GRADE B ATTACH TO NO. 1 WITH STUDS NO. 6.
- ⑥ 16 mm DIA. X 40 mm LG. SHOP WELDED STUDS WITH HEX. NUT AND 50 mm WASHERS. (2 REQ'D. AT EACH RAIL TO POST LOCATION.)
- ⑦ PLATE 10 mm X 475 mm X 510 mm. BOLT TO RAIL AS SHOWN IN DETAIL. REQUIRED AT THREE BEAM GUARD RAIL ATTACHMENTS ONLY. PLACE SYMMETRICALLY ABOUT TUBES NO. 5.
- ⑧ 25 mm DIA. HOLES IN PLATE NO. 7 & TUBES NO. 5 FOR M22 A325M BOLTS W/HEX NUTS AND WASHERS.
- ⑨ SQUARE SLEEVE FABRICATED FROM 6 mm PLATE. PROVIDE "SLIDING FIT" WITH A MINIMUM OUT TO OUT DIMENSION OF 87 mm.
- ⑩ TS. 76 X 76 X 6.4 X (710 mm AT EXPANSION JOINTS) & (560 mm AT FIELD JOINTS) LONG. PROVIDE 13 mm DIA. SURFACE WELDS ON ALL SIDES AS SHOWN. GRIND WELDS TO FIT FREE INTO I.D. OF NO. 5. PROVIDE 10 mm DIA. X 13 mm WELDING STUDS ON TOP AND BOTTOM SURFACES AT CENTERLINE.
- ⑪ 22 mm DIA. X 38 mm LONG SHOP WELDED STUDS.

GENERAL NOTES

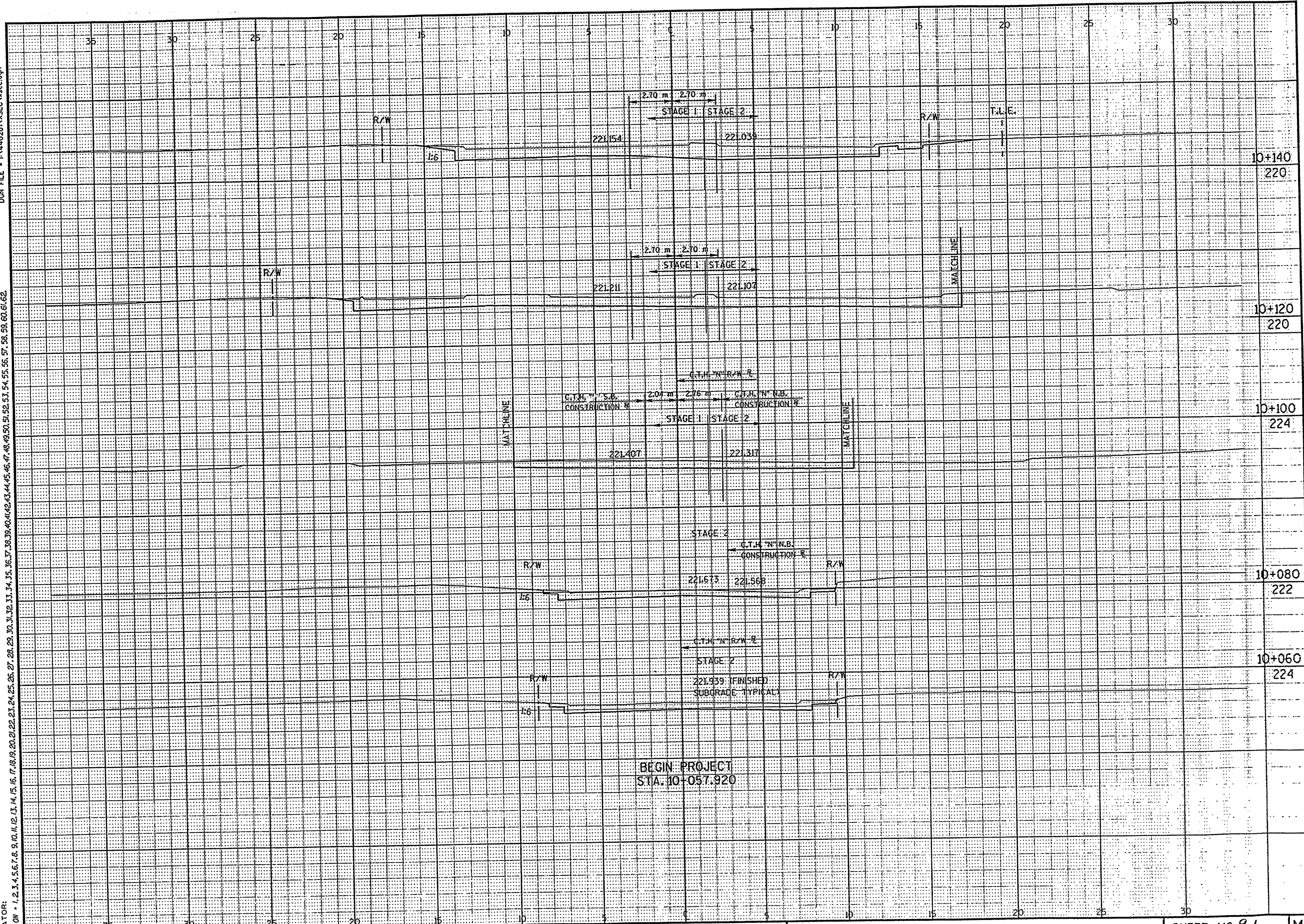
BID ITEM SHALL BE "TUBULAR RAILING TYPE 'F' MODIFIED", WHICH INCLUDES ALL ITEMS SHOWN.
 RAILING SHALL BE FABRICATED IN LENGTHS THAT INCLUDE 3 OR 4 POSTS.
 POSTS BASE PLATES, NO. 2, SHALL BE FLAT WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUT.
 ALL MATERIAL, EXCEPT (NO. 4) SHALL BE GALVANIZED AFTER FABRICATION.
 FILL BOLT SLOT OPENINGS IN POST SHIMS AND PLATE NO. 2 WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER.
 ALL MATERIALS USED IN FABRICATION SHALL BE MADE FROM MATERIALS CONFORMING TO A.S.T.M. DESIGNATION A709M GRADE M250 UNLESS NOTED OTHERWISE.
 STEEL POST SHIMS MAY BE USED UNDER POSTS WHERE REQ'D. FOR ALIGNMENT.
 PRIOR TO GALVANIZING, ALL STEEL RAILING POSTS & STEEL TUBING SHALL BE GIVEN A NO. 6 BLAST CLEANING BY S.S.P.C. SPECIFICATIONS.

| NO. | DATE | REVISION | BY |
|--|------|--------------|------------------|
| STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS | | | |
| STRUCTURE B-44-187 | | | |
| CONST. SPEC. | 1996 | DRAWN BY JHG | PLANS CK'D. ZJRK |
| TUBULAR STEEL RAILING TYPE 'F' MODIFIED | | | SHEET 23 |

FILE# 187FRAIL4.DGN

CG2
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CROSS SECTIONS

HWY: C.T.H. "N"

COUNTY: OUTAGAME

STATE PROJECT NO: 4676-03-71

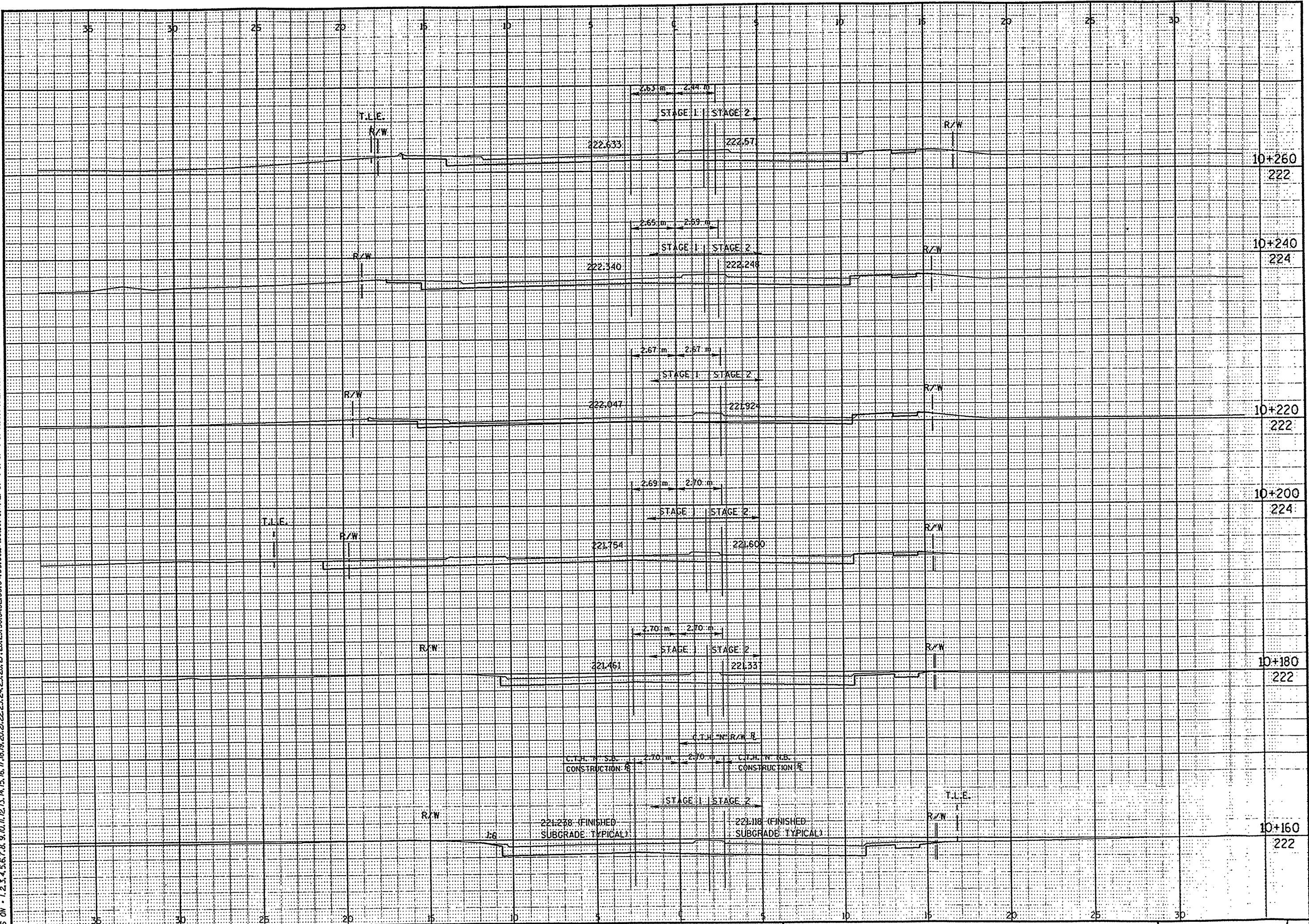
SHEET NO: 91

M

W.D.C. = 1/3 = 2/3

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CROSS SECTIONS

HWY: C.T.H. "N"

COUNTY: OUTAGAMIE

STATE PROJECT NO: 4676-03-71

SHEET NO: 9.2

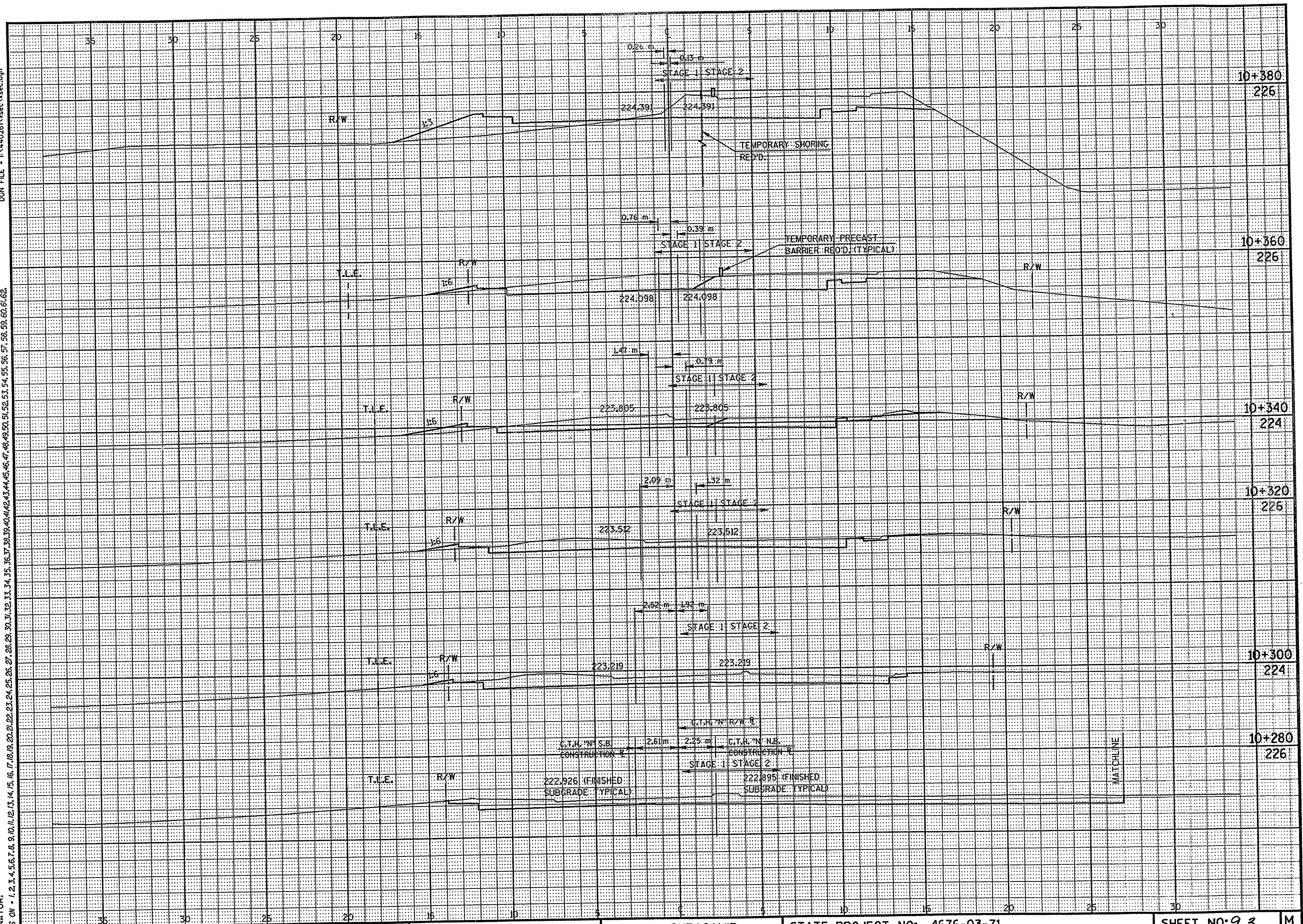
M

FILE NAME:

WISCONSIN 1/3/92

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CROSS SECTIONS

HWY: C.T.H. "N"

COUNTY: OUTAGAME

STATE PROJECT NO: 4676-03-71

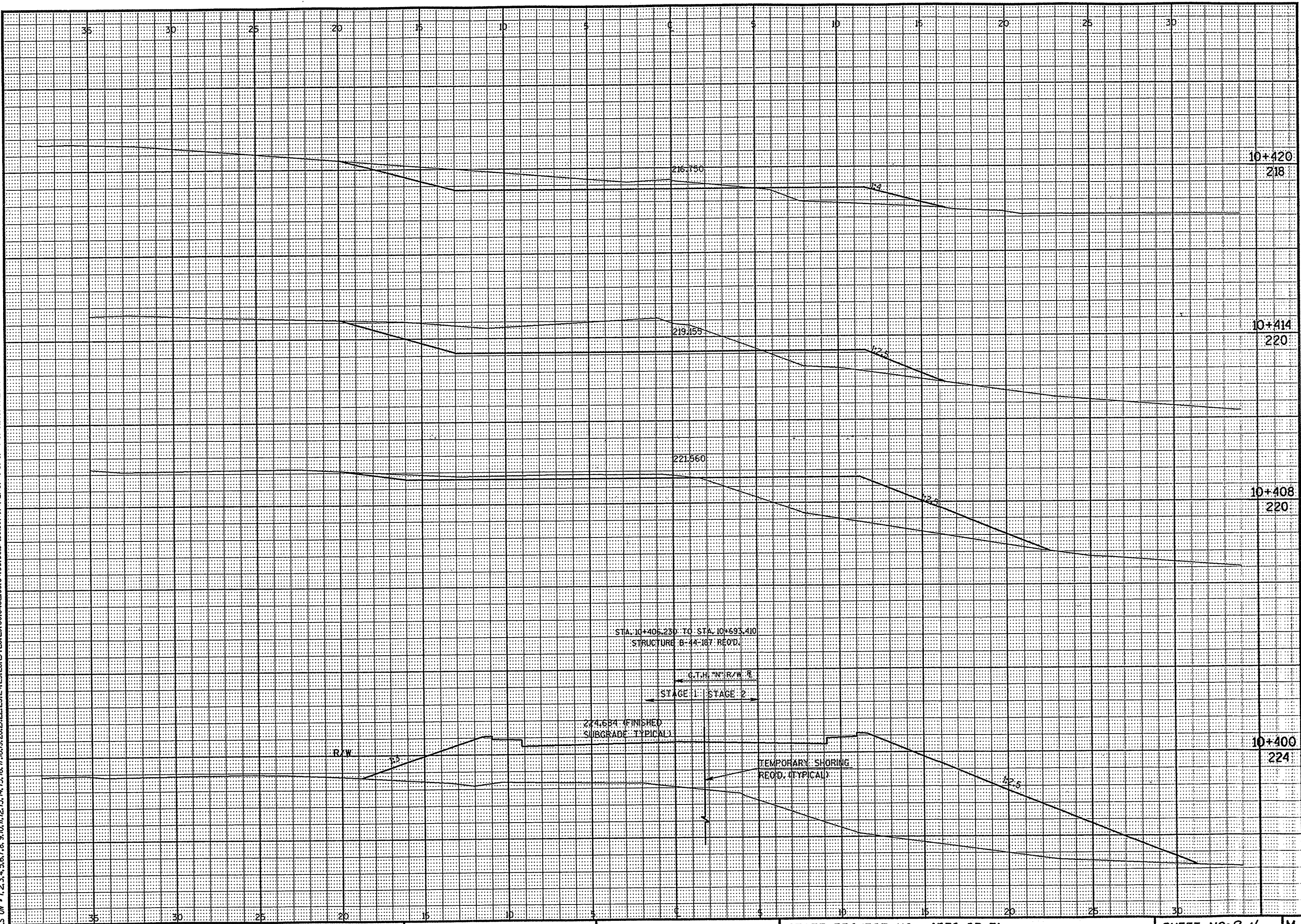
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M

WI DOT: MSH23

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STA. 10+405.250 TO STA. 10+693.410
 STRUCTURE B-44-187 RECD.

C.T.H. "N" R/W R.
 STAGE 1 STAGE 2

274.684 FINISHED
 SUBGRADE TYPICAL

TEMPORARY SHORING
 RECD. (TYPICAL)

CROSS SECTIONS

HWY: C.T.H. "N"

COUNTY: OUTAGAMIE

STATE PROJECT NO: 4676-03-71

SHEET NO: 9.4 M

WI 8007 MSHT 23
61

GB2
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CROSS SECTIONS

HWY: C.T.H. "N"

COUNTY: OUTAGAMIE

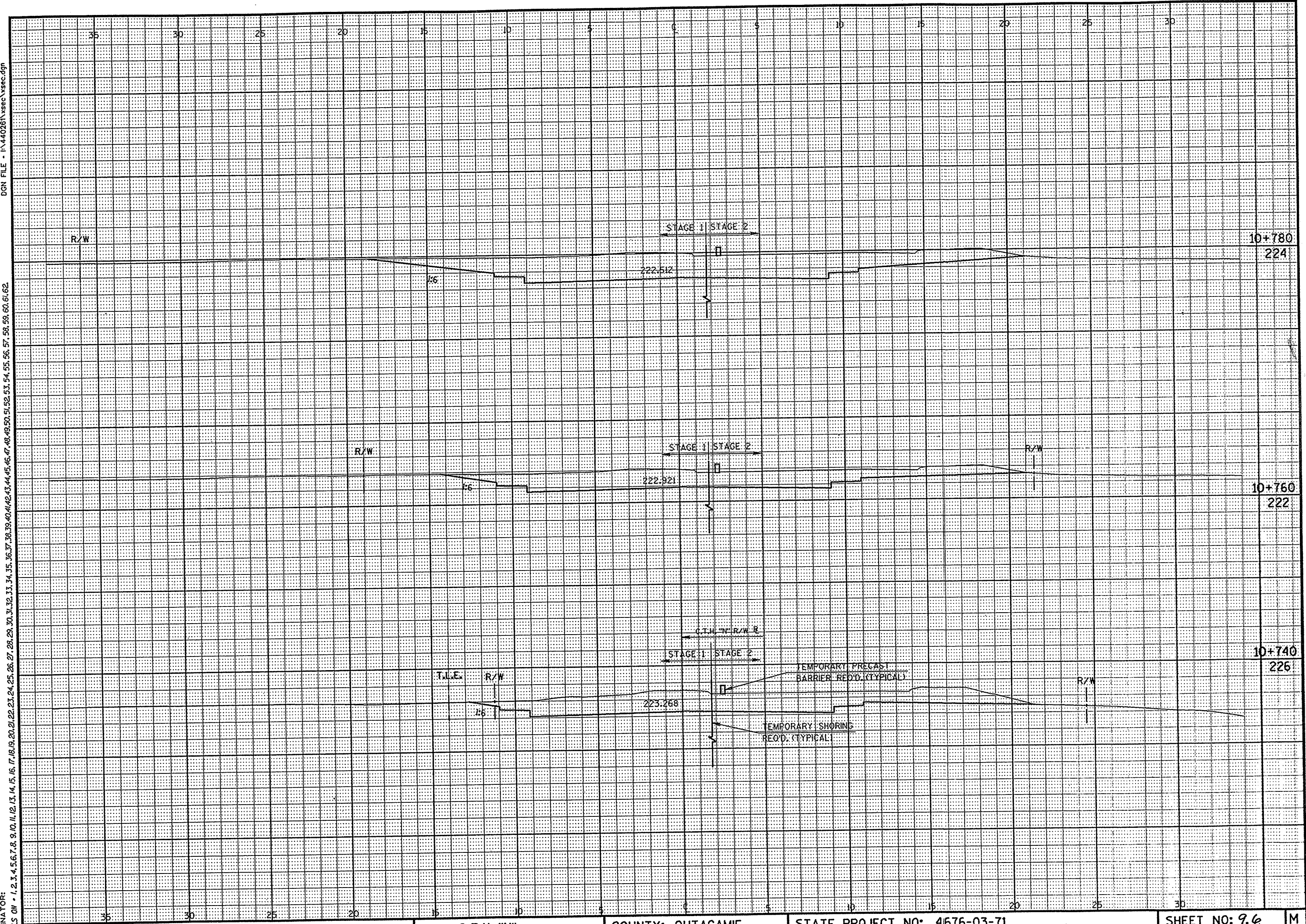
STATE PROJECT NO: 4676-03-71

SHEET NO: 9.5 M

WINDOW: MSHT2

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CROSS SECTIONS

HWY: C.T.H. "N"

COUNTY: OUTAGAMIE

STATE PROJECT NO: 4676-03-71

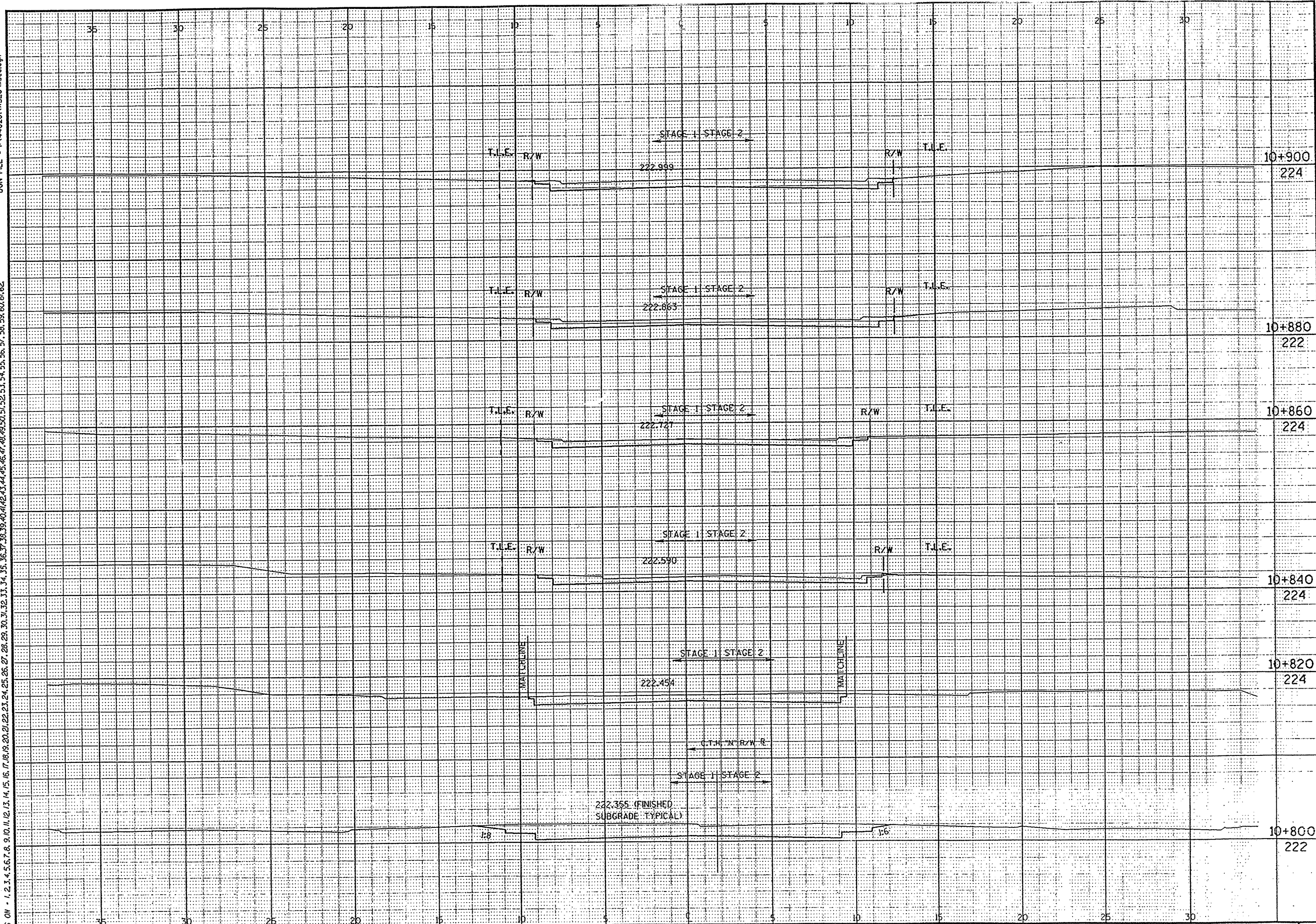
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M

WISDOT: MSHZ2
63

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CROSS SECTIONS

HWY: C.T.H. "N"

COUNTY: OUTAGAMIE

STATE PROJECT NO: 4676-03-71

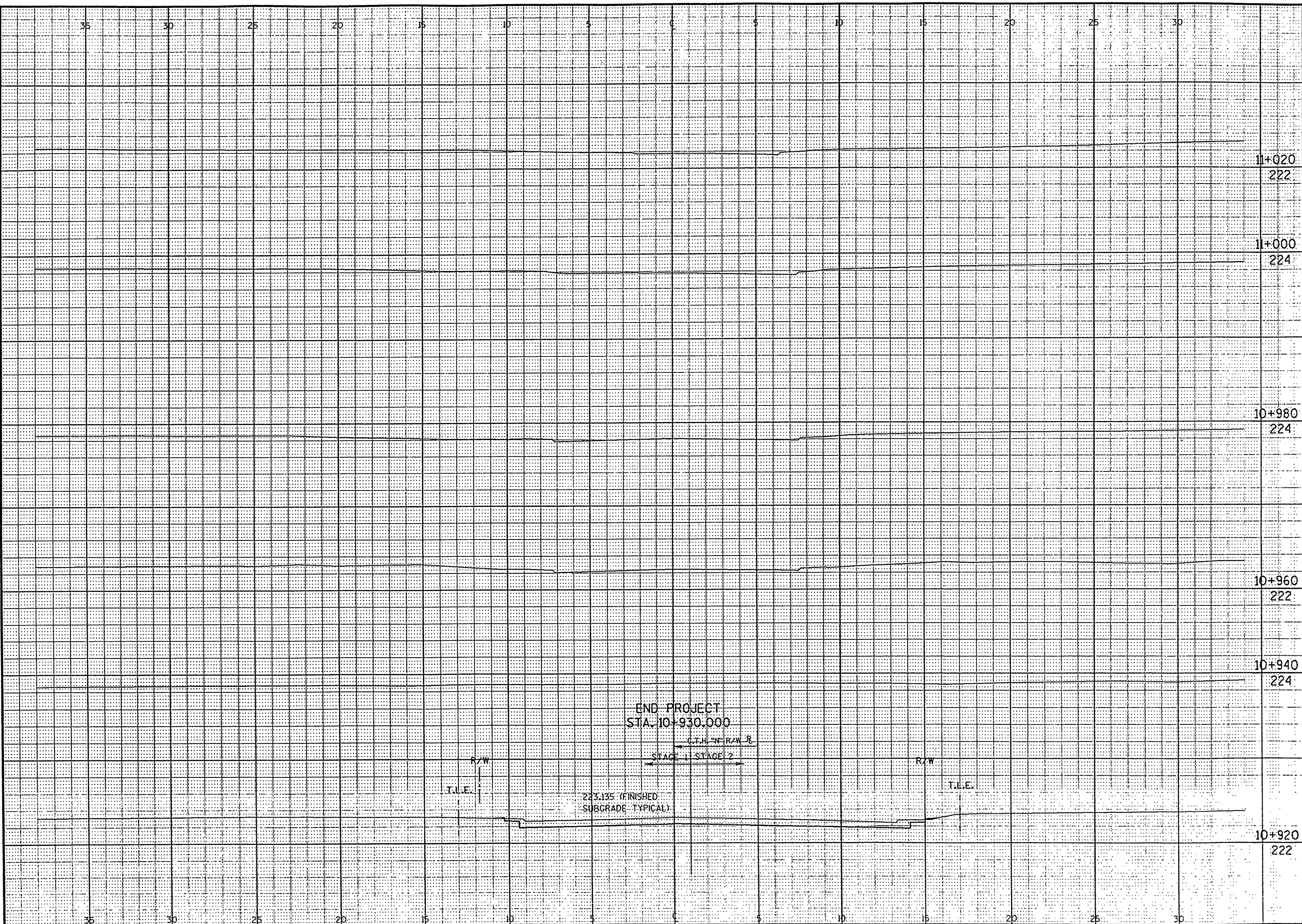
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M

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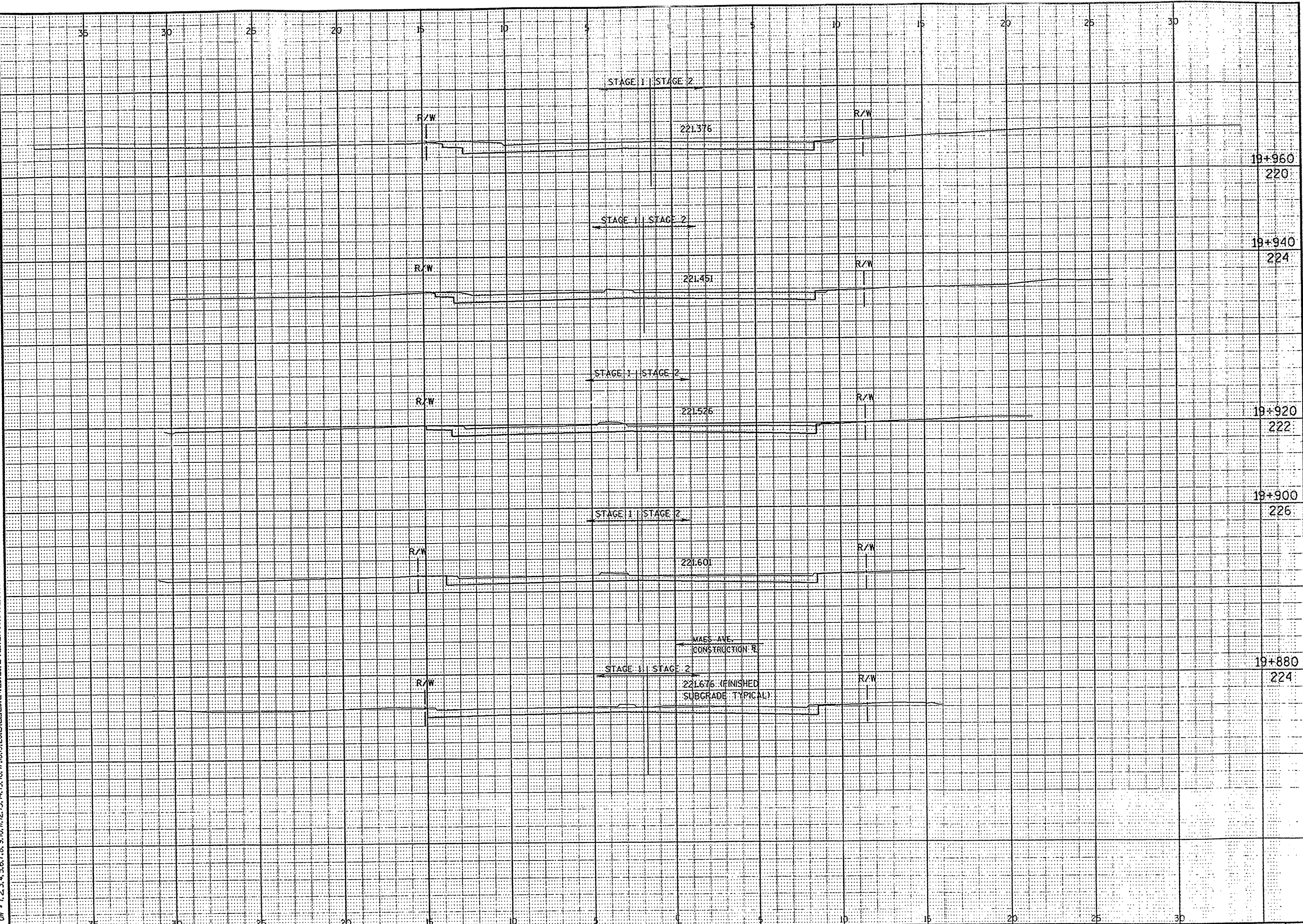
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|----------------|-----------------|-------------------|------------------------------|---------------|---|
| CROSS SECTIONS | HWY: C.T.H. "N" | COUNTY: OUTAGAMIE | STATE PROJECT NO: 4676-03-71 | SHEET NO: 9.8 | M |
|----------------|-----------------|-------------------|------------------------------|---------------|---|

FILE NAME:

WISDOT: MS-T-2

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WISDOT: MS-422
66

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CROSS SECTIONS (MAES AVE.)

HWY: C.T.H. "N"

COUNTY: OUTAGAMIE

STATE PROJECT NO: 4676-03-71

SHEET NO: 9.10

M

WISDOT: 12/5/98