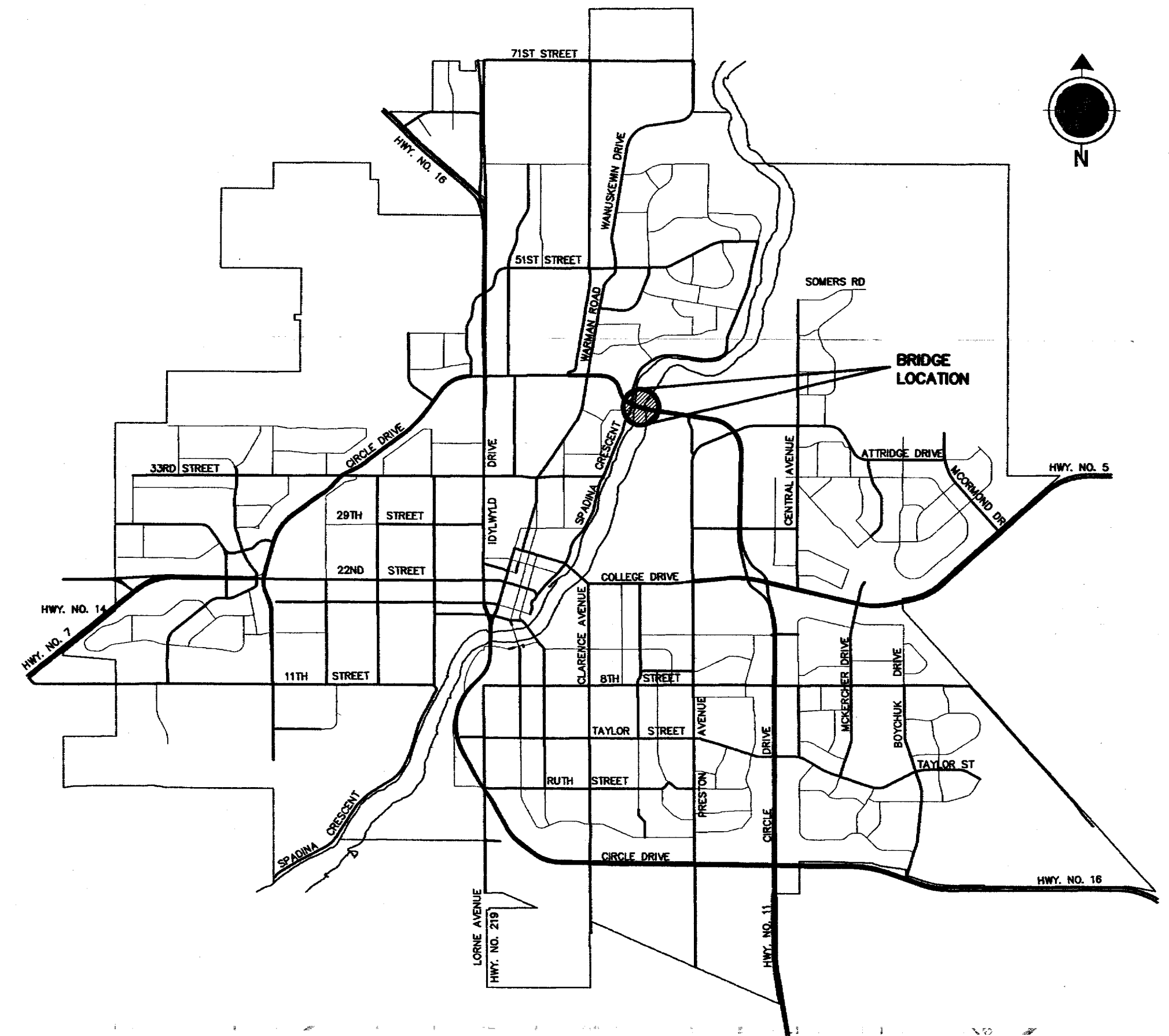


CITY OF

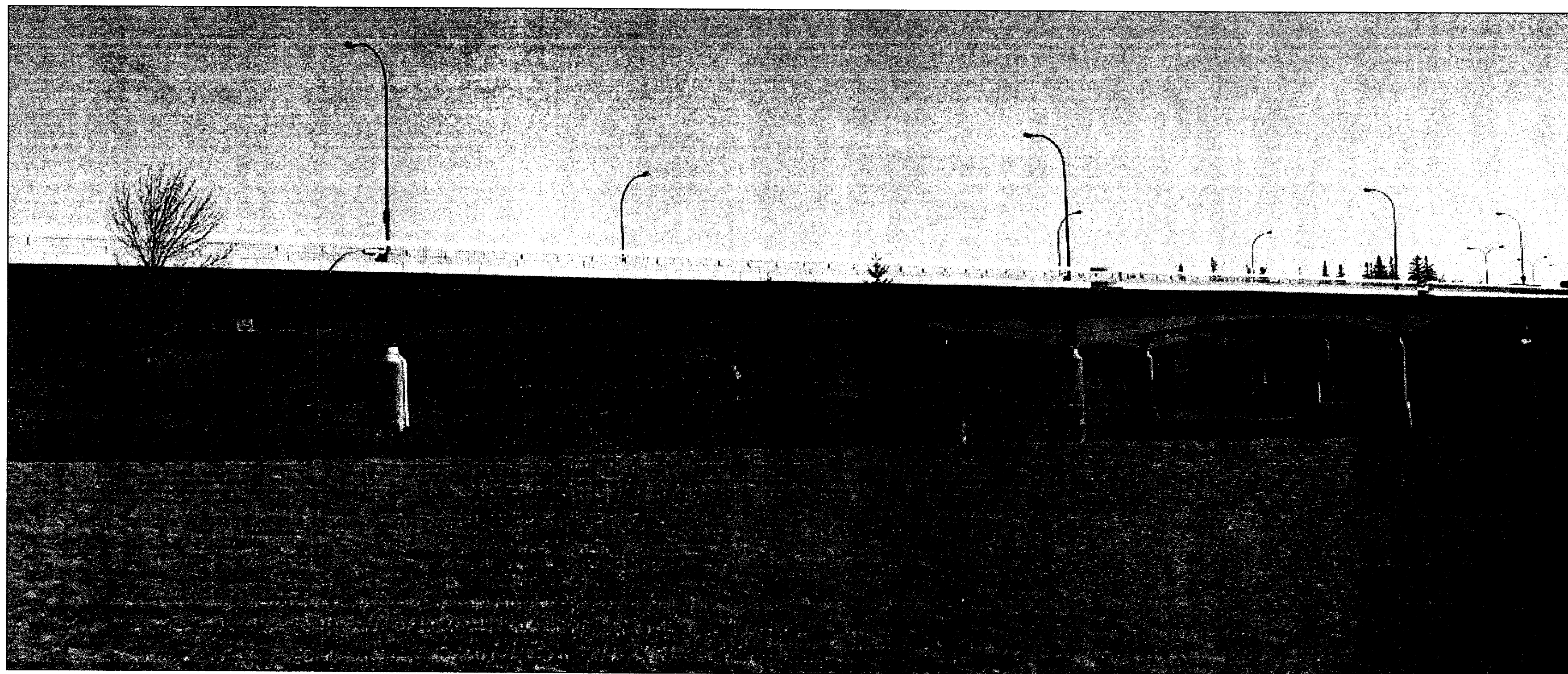
Saskatoon

 **City of
Saskatoon**
Infrastructure Services Department

CIRCLE DRIVE
BRIDGE WIDENING
CONTRACT NO. 6-0009



DRAWING LIST	
SHEET NO.	DESCRIPTION
S1	GENERAL ARRANGEMENT
S2	WORK AREA LAYOUT & CONSTRUCTION PHASING
S3	EXISTING/PROPOSED PLAN
S4	EXISTING ASPHALT DEPTH PLAN & EXISTING/PROPOSED PATHWAYS
S5	WEST ABUTMENT PLAN AT TOP OF ABUTMENT SEAT ELEVATION
S6	EAST ABUTMENT PLAN AT TOP OF ABUTMENT SEAT ELEVATION
S7	WEST ABUTMENT PLAN AT TOP OF DECK ELEVATION
S8	EAST ABUTMENT PLAN AT TOP OF DECK ELEVATION
S9	ABUTMENT SECTIONS & DETAILS
S10	ABUTMENT SECTIONS
S11	ABUTMENT REINFORCING DETAILS
S12	FLOOR BEAM & STRINGER LAYOUT PLAN
S13	FLOOR BEAM & STRINGER SECTIONS & DETAILS
S14	NEW EXPANSION JOINTS PLANS & ELEVATIONS
S15	NEW EXPANSION JOINTS SECTIONS & DETAILS
S16	DECK ELEVATIONS
S17	DECK REINFORCING PLAN & POURING SEQUENCE
S18	WESTBOUND DECK REINFORCING SECTIONS & DETAILS
S19	EASTBOUND DECK REINFORCING SECTIONS & DETAILS
S20	DECK REINFORCING SECTIONS & DETAILS
S21	DECK & BARRIER SECTIONS & DETAILS
S22	MISCELLANEOUS SECTIONS & DETAILS
S23	ELECTRICAL LAYOUT PLAN & DETAILS
S24	WING WALL END TREATMENT DETAILS
RECORD DRAWING	



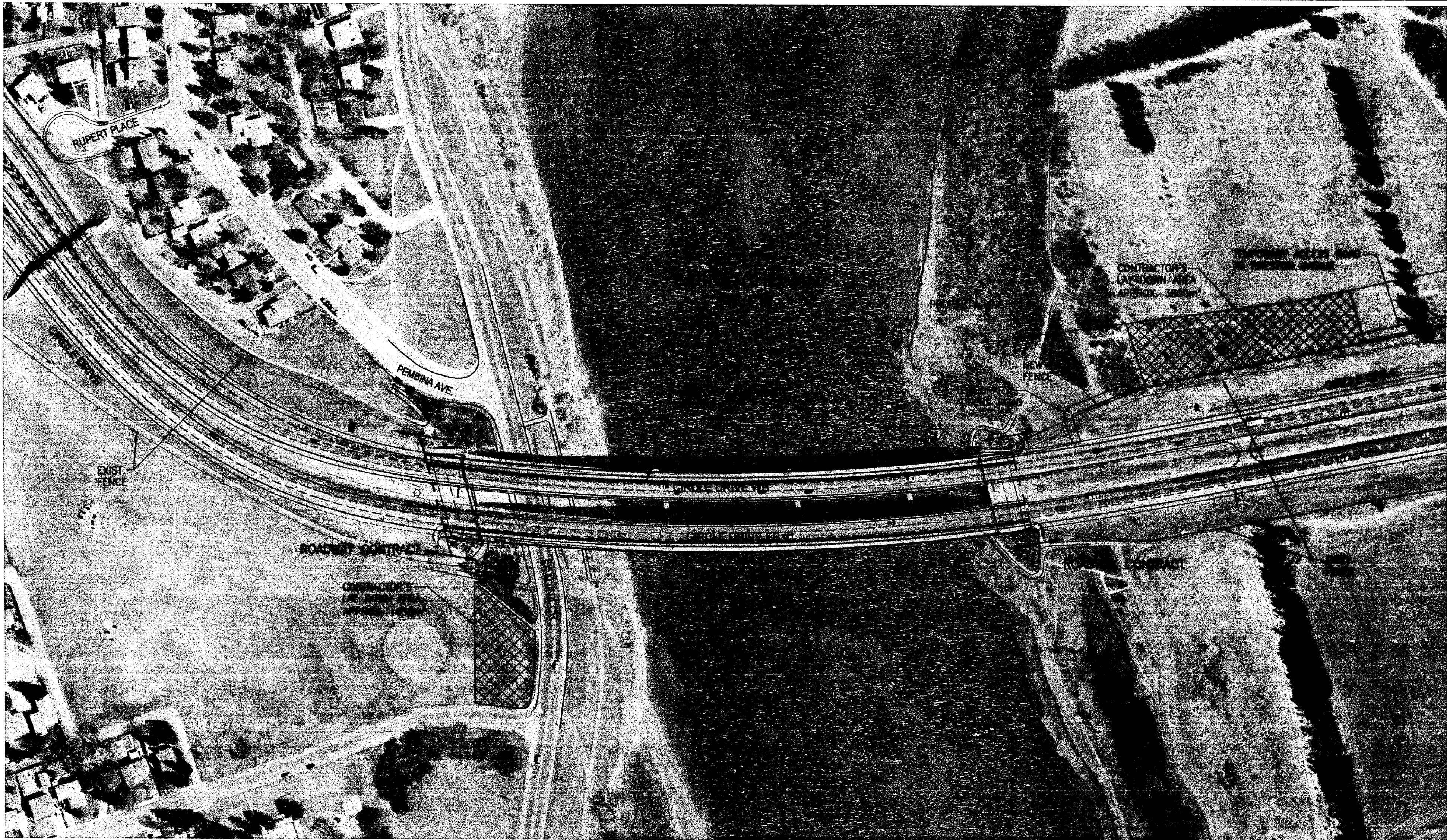
INFRASTRUCTURE SERVICES



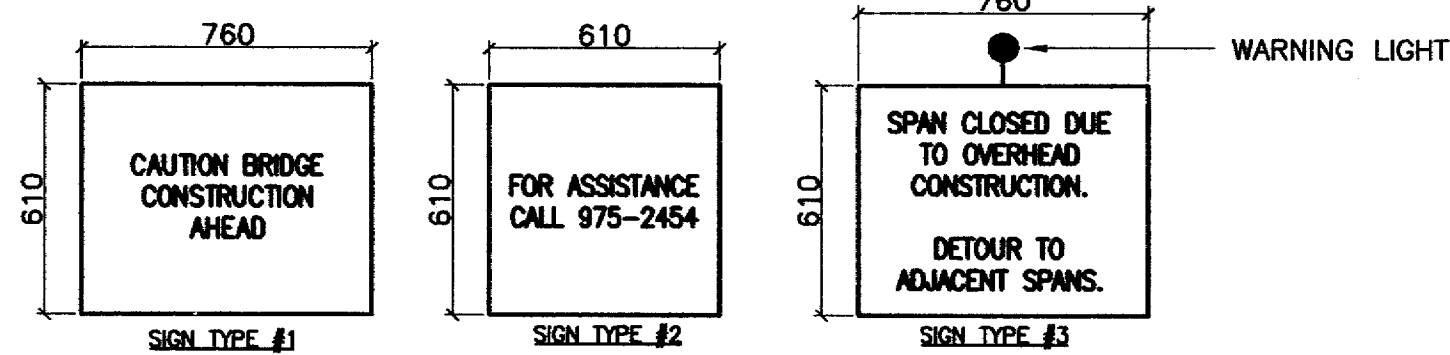
S. UZELMAN, P.ENG
GENERAL MANAGER

W. C. SEXSMITH, P.ENG
MANAGER, MUNICIPAL ENGINEERING

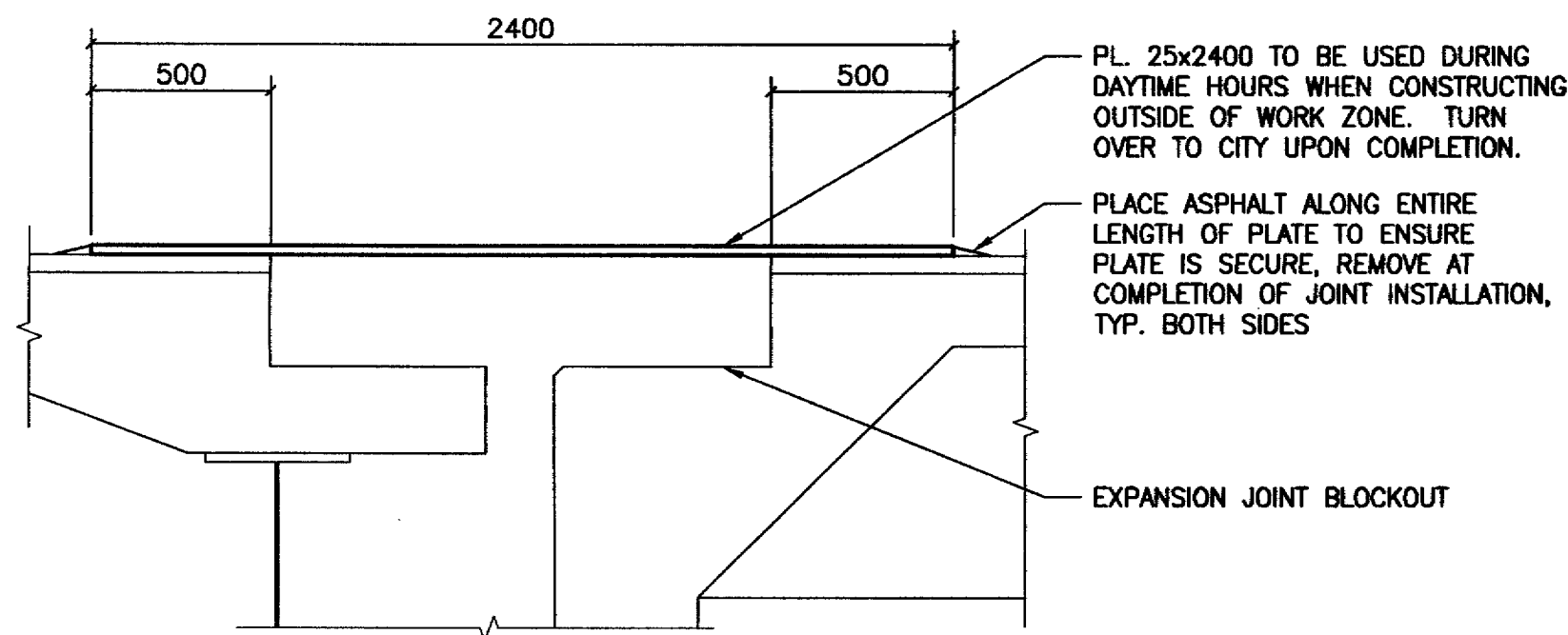
D. DREVER, P.ENG
MANAGER, PUBLIC WORKS



1
-
TEMPORARY WORKS PLAN
1:1500



2
-
RIVER DETOUR SIGNS
N.T.S.



3
-
EXPANSION JOINT COVER PLATE
N.T.S.

NOTES
1. PHASING:

PHASE 1 - WESTBOUND BRIDGE

- INSTALL NEW LIGHT STANDARD MOUNTS AND CONDUIT c/w PULL WIRE
- NEW LIGHTS STANDARDS INSTALLED BY SASKATOON LIGHT AND POWER
- EXIST. LIGHT STANDARDS TO BE REMOVED BY SASKATOON LIGHT AND POWER
- DEMOLITION AND CONSTRUCTION OF ABUTMENT NOT AFFECTED BY DECK CONSTRUCTION PHASING
- REMOVE BARRIER RAIL AND BARRIER TO TOP OF DECK
- REMOVE ASPHALT WITHIN WORK AREA
- REMOVE SIDEWALK RAIL AND SIDEWALK CURB
- REMOVE SECTIONS OF EXIST. SIDEWALK AT ALL NEW FLOOR BEAM LOCATIONS
- INSTALL NEW FLOOR BEAMS AND STRINGERS
- REPLACE CONC. OVER NEW FLOOR BEAMS AND STRINGERS TO 20mm BELOW TOP MAT REINF.
- HYDRO-MILL CONCRETE TO 20mm BELOW TOP MAT REINF.
- PLACE NEW TOP REINF. AND POUR NEW DECK CONC.
- CAST NEW BARRIER
- REMOVE AND REPLACE EXPANSION JOINT WITHIN CONSTRUCTION ZONE
- PLACE NEW MEMBRANE AND PROTECTION BOARD ON BRIDGE DECK AND ROOF AND APPROACH SLABS
- PLACE ASPHALT WEARING SURFACE ON BRIDGE DECK AND ROOF AND APPROACH SLABS
- REPLACE REMAINDER OF EXPANSION JOINT
- NEW FILL OUTSIDE OF EXISTING RAMP LOCATIONS TO BE PLACED BY OTHERS

PHASE 2 - EASTBOUND BRIDGE

- INSTALL NEW LIGHT STANDARD MOUNTS AND CONDUIT c/w PULL WIRE
- NEW LIGHTS STANDARDS INSTALLED BY SASKATOON LIGHT AND POWER
- EXIST. LIGHT STANDARDS TO BE REMOVED BY SASKATOON LIGHT AND POWER
- DEMOLITION AND CONSTRUCTION OF ABUTMENT NOT AFFECTED BY DECK CONSTRUCTION PHASING
- REMOVE BARRIER RAIL AND BARRIER TO TOP OF DECK
- REMOVE ASPHALT WITHIN WORK AREA
- REMOVE SIDEWALK RAIL AND SIDEWALK CURB
- REMOVE SECTIONS OF EXIST. SIDEWALK AT ALL NEW FLOOR BEAM LOCATIONS
- INSTALL NEW FLOOR BEAMS AND STRINGERS
- POUR NEW CONC. DECK EXTENSION OVER FLOOR BEAMS AND STRINGERS TO EXTENTS SHOWN ON DETAILS
- REMOVE CONCRETE DECK AND REINFORCEMENT AS SHOWN ON DETAILS
- PLACE NEW TOP REINF. AND POUR NEW DECK
- CAST NEW BARRIER
- REMOVE AND REPLACE EXPANSION JOINT WITHIN CONSTRUCTION ZONE
- PLACE NEW MEMBRANE AND PROTECTION BOARD ON BRIDGE DECK AND ROOF AND APPROACH SLABS
- PLACE ASPHALT WEARING SURFACE ON BRIDGE DECK AND ROOF AND APPROACH SLABS
- REPLACE REMAINDER OF EXPANSION JOINT
- NEW FILL OUTSIDE OF EXISTING RAMP LOCATIONS TO BE PLACED BY OTHERS

2. TEMPORARY WORKS:

RIVER DETOUR

- INSTALL SIGNS TYPE #1 AND #2 ON BOTH SHORE LINES 100m AWAY FROM BRIDGE IN BOTH DIRECTIONS
- INSTALL SIGN TYPE #3 ON PIERS ON EITHER SIDE OF SPAN UNDER CONSTRUCTION BOTH UPSTREAM AND DOWNSTREAM

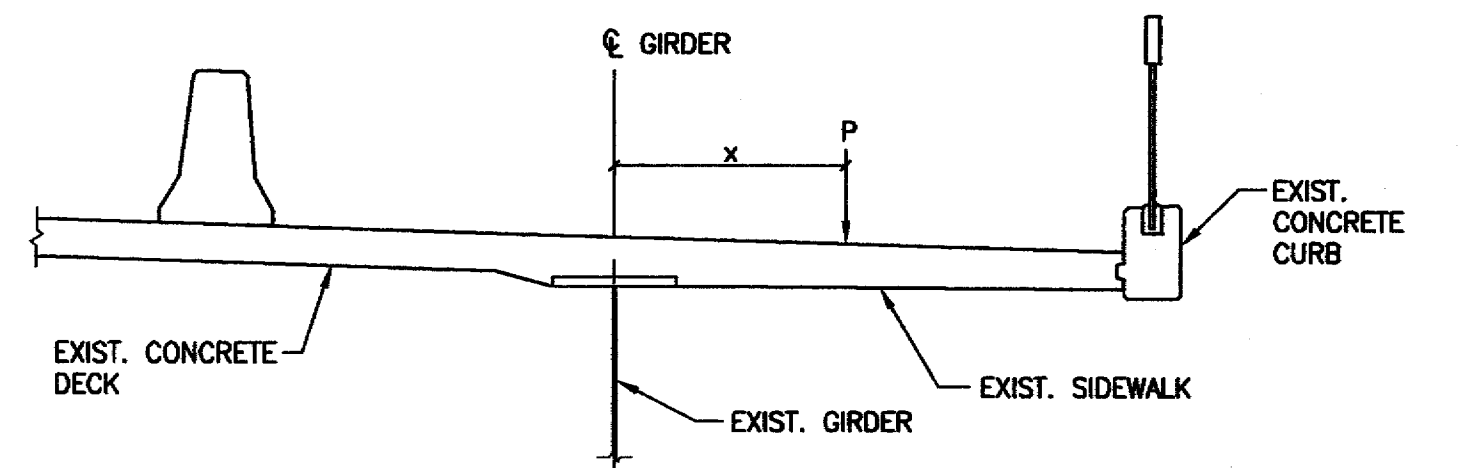
LAY DOWN AREA

- ACCESS TO NORTHEAST LAY DOWN AREA TO BE THROUGH EXIST FENCE GATE AND FROM PRESTON AVENUE
- CONTRACTOR TO PROVIDE AND MAINTAIN ACCESS ROAD TO LAY DOWN AREA FOR DURATION OF CONTRACT. REMOVE ROADWAY AT COMPLETION OF CONTRACT.
- CONTRACTOR TO RESTORE ALL AREAS USED FOR LAY DOWN AREA, ACCESS ROAD AND ADJACENT AREA DAMAGED BY CONSTRUCTION TRAFFIC TO THE CONDITION THAT EXISTED PRIOR TO INITIATION OF WORK.

3. CONSTRUCTION LOADING:

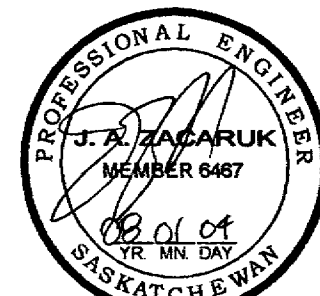
- REFER TO DIAGRAM AND TABLES BELOW FOR MAXIMUM ALLOWABLE LOADS ON EXISTING CANTILEVERED SIDEWALK
- CONCRETE SHALL NOT BE REMOVED FROM DECK OR SIDEWALK PRIOR TO INSTALLATION OF SUPPORT STEEL AND CONCRETE DECK EXTENSION
- CONTRACTOR TO PROVIDE ALL EQUIPMENT LOADING TO ENGINEER FOR APPROVAL PRIOR TO COMMENCEMENT OF WORK

U.D.L. (CONTINUOUS LINE LOAD)					POINT LOAD (3m SPACING)				
x (m)	0.5	1.0	1.5	2.0	x (m)	0.5	1.0	1.5	2.0
P (kN/m)	78	38	25	19	P (kN)	78	78	78	5830



RECORD DRAWING

NO.	REVISIONS	DATE	BY
5	PROJECT RECORD DRAWINGS	06-01-04	RKC
4	ISSUED FOR TENDER	06-03-10	RKC
3	ISSUED FOR FINAL REVIEW	06-03-02	RKC
2	ISSUED FOR CLIENT REVIEW	06-01-23	RKC
1	ISSUED FOR CLIENT REVIEW	06-01-17	RKC

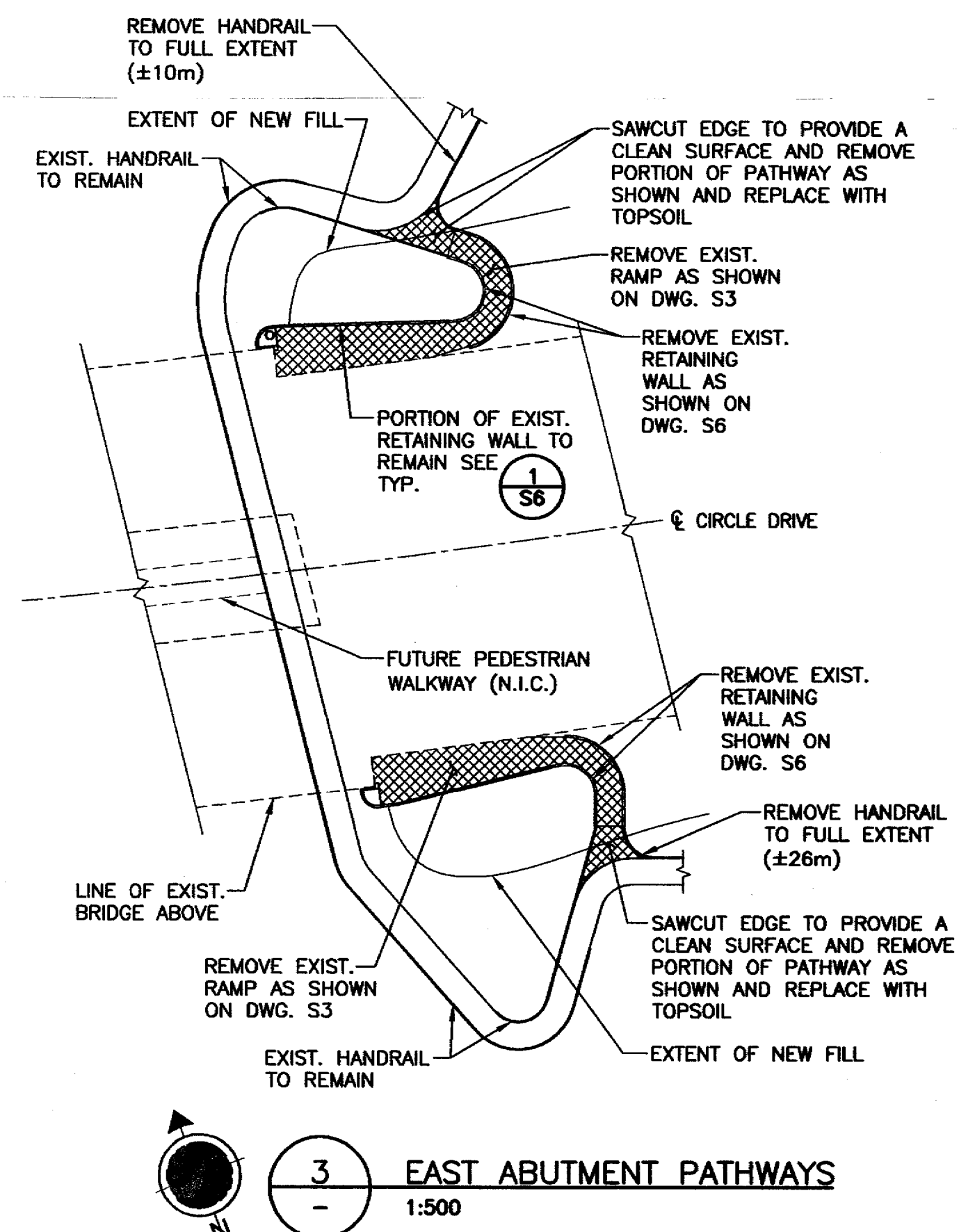
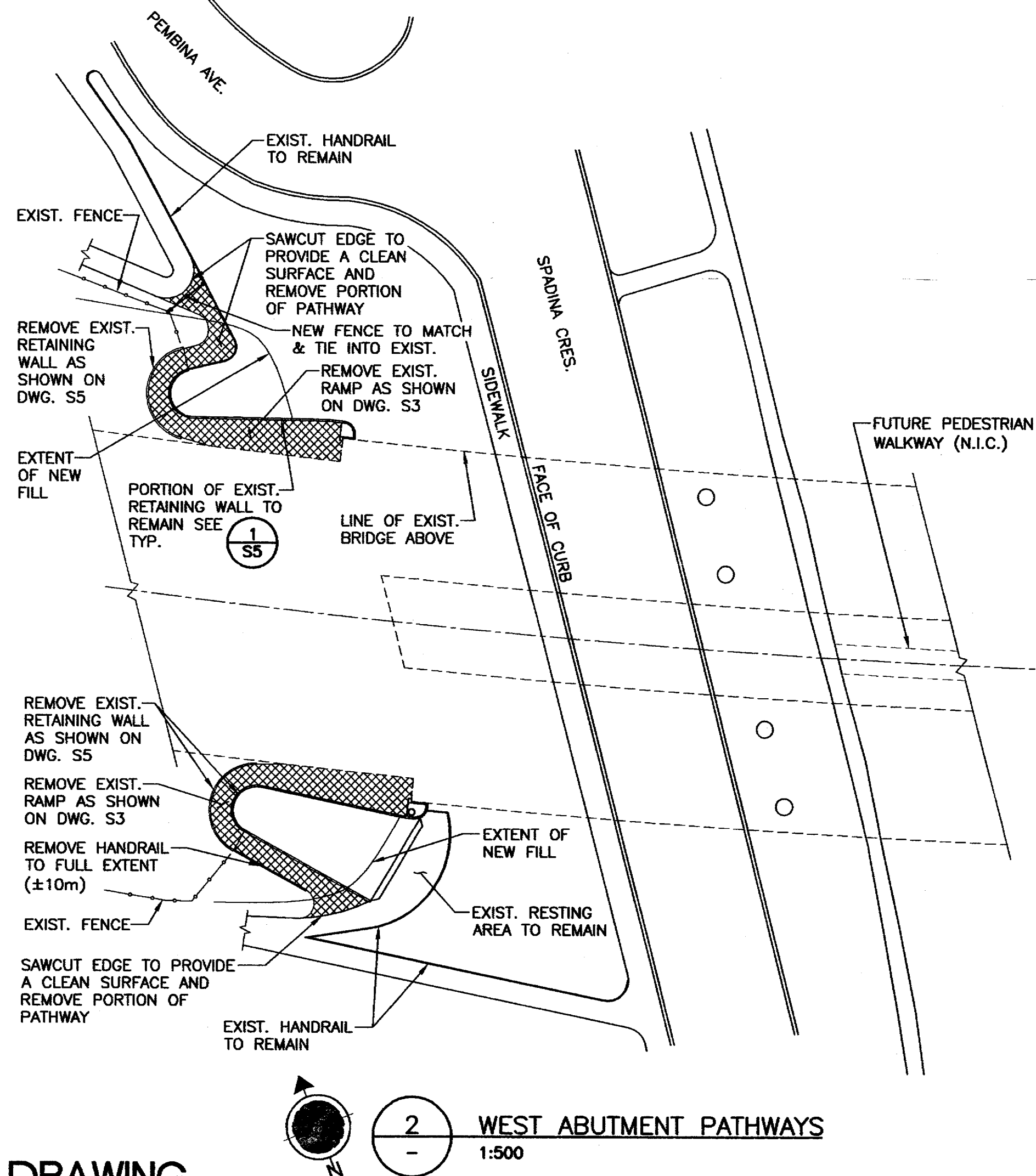
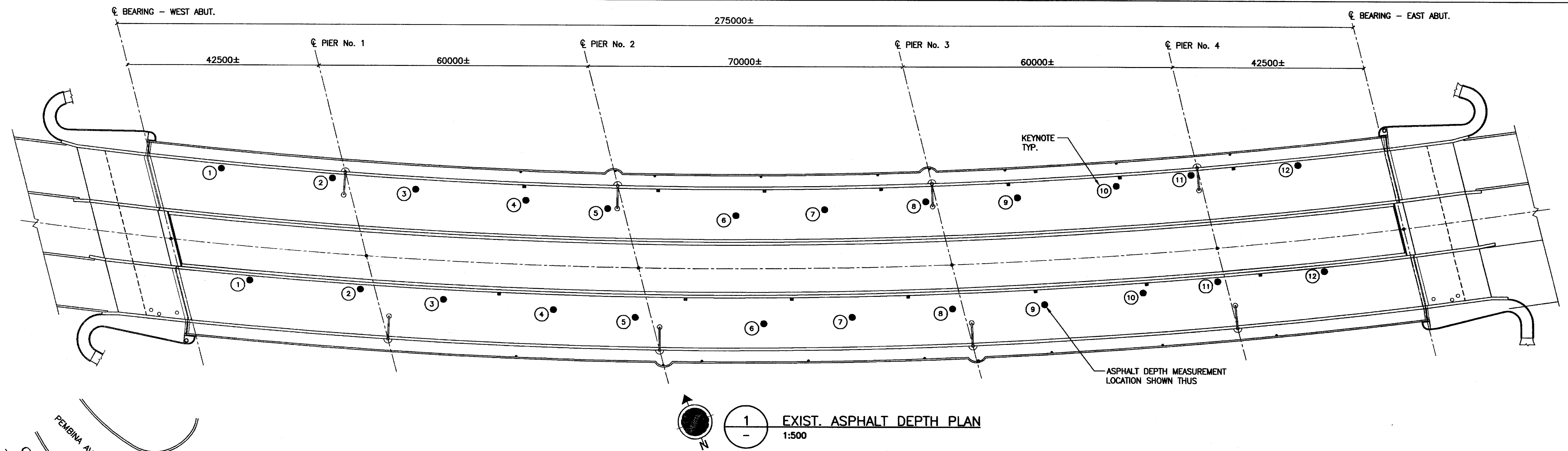


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MUNICIPAL ENGINEERING		PUBLIC WORKS	
ENGINEER	ENGINEER	ENGINEER	ENGINEER
ENGINEER	ENGINEER	ENGINEER	ENGINEER
DRAWN BY RKC	DRAWN BY	DRAWN BY	DRAWN BY
DATE 06-01-12	DATE	DATE	DATE
CHECKED BY	CHECKED BY	CHECKED BY	CHECKED BY
DATE	DATE	DATE	DATE

City of Saskatoon
Infrastructure Services Department

CIRCLE DRIVE BRIDGE WIDENING		P. ENG	
WORK AREA LAYOUT & CONSTRUCTION PHASING		GENERAL MANAGER	DATE
		SCALES: HOR. AS NOTED	SHEET NO. S2
		VERT. AS NOTED	PLAN NO. 104-1008-002 r001



KEYNOTES:
ASPHALT DEPTHS TAKEN FROM 2004 DECK TESTING REPORT ARE AS FOLLOWS:

WESTBOUND	EASTBOUND
1 - 110	1 - 110
2 - 100	2 - 100
3 - 100	3 - 90
4 - 105	4 - 80
5 - 110	5 - 90
6 - 100	6 - 80
7 - 110	7 - 85
8 - 100	8 - 90
9 - 100	9 - 100
10 - 105	10 - 100
11 - 100	11 - 100
12 - 100	12 - 100

- NOTES:**
- CONTRACTOR TO LOCATE UNDERGROUND SPRINKLER SYSTEMS PRIOR TO DEMOLITION IN PATHWAY AREAS
 - LEGEND:
- DEMOLITION SHOWN THUS.
 - DENOTES ASPHALT DEPTH SAMPLE

RECORD DRAWING

NO.	REVISIONS	DATE	BY
3	PROJECT RECORD DRAWINGS	08-01-04	RKC
2	ISSUED FOR TENDER	08-03-10	RKC
1	ISSUED FOR FINAL REVIEW	08-03-02	RKC



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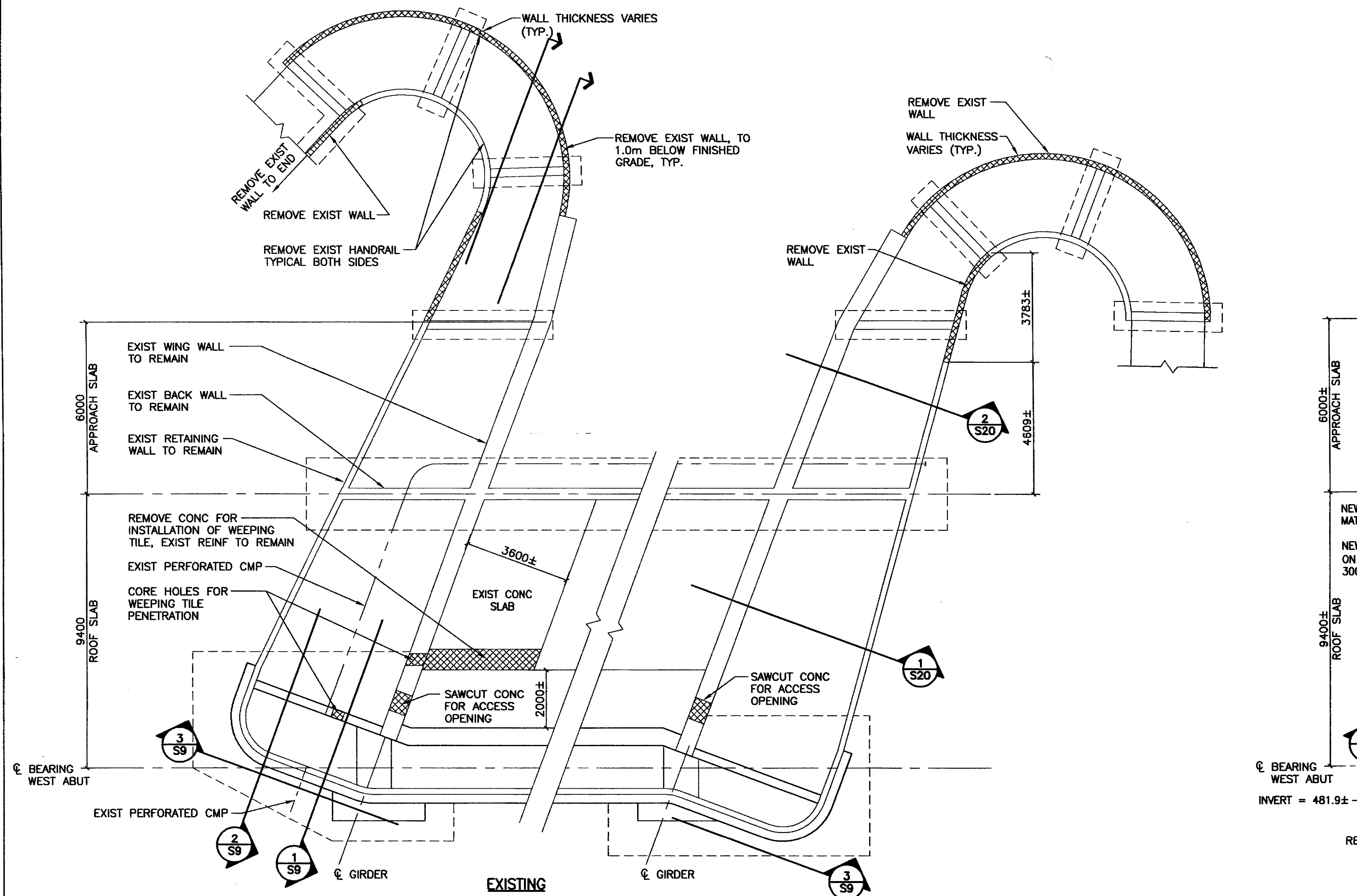
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DRAWN BY RKC	DRAWN BY	DRAWN BY	DRAWN BY
DATE 06-02-07	DATE	DATE	DATE
CHECKED BY	CHECKED BY	CHECKED BY	CHECKED BY
DATE	DATE	DATE	DATE

City of Saskatoon
 Infrastructure Services Department

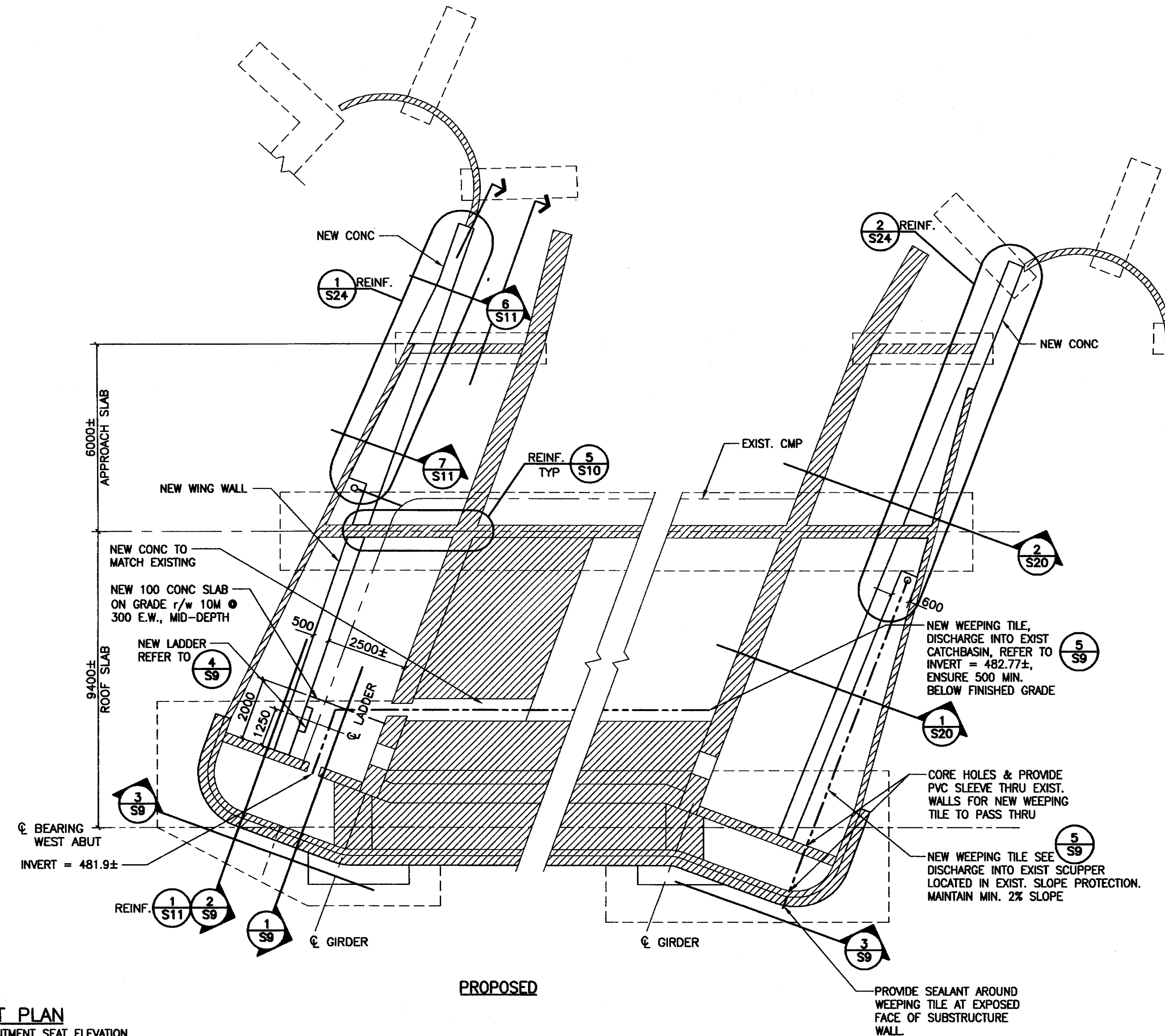
CIRCLE DRIVE BRIDGE WIDENING

EXISTING ASPHALT DEPTH PLAN &
 EXISTING/PROPOSED PATHWAYS

GENERAL MANAGER	P. ENG
DATE	
SHEET NO.	S4
PLAN NO.	104-1002-004-r001



1 WEST ABUTMENT PLAN
1:100 AT TOP OF ABUTMENT SEAT ELEVATION



- NOTES:
- LEGEND:
- DEMOLITION SHOWN THUS.
 - EXISTING SHOWN THUS.

RECORD DRAWING

NO.	REVISIONS	DATE	BY
4	PROJECT RECORD DRAWINGS	08-01-04	RKC
3	ISSUED FOR TENDER	06-03-10	RKC
2	ISSUED FOR FINAL REVIEW	06-03-02	RKC
1	ISSUED FOR CLIENT REVIEW	06-02-09	RKC



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	MUNICIPAL ENGINEERING	PUBLIC WORKS
ENGINEER	ENGINEER	ENGINEER
ENGINEER	ENGINEER	ENGINEER
DRAWN BY KMF	DRAWN BY	DRAWN BY
DATE 06-02-01	DATE	DATE
CHECKED BY	CHECKED BY	CHECKED BY
DATE	DATE	DATE

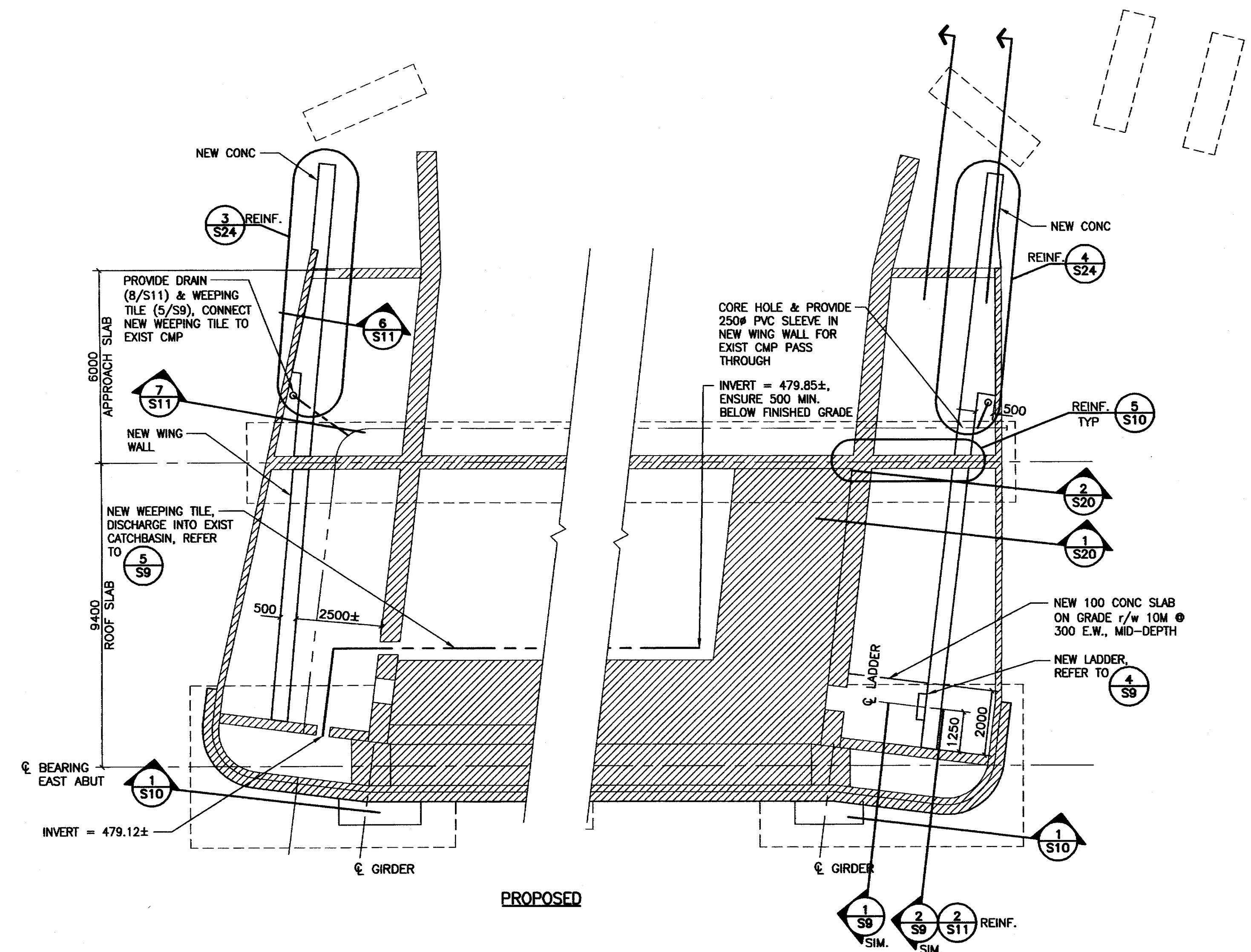
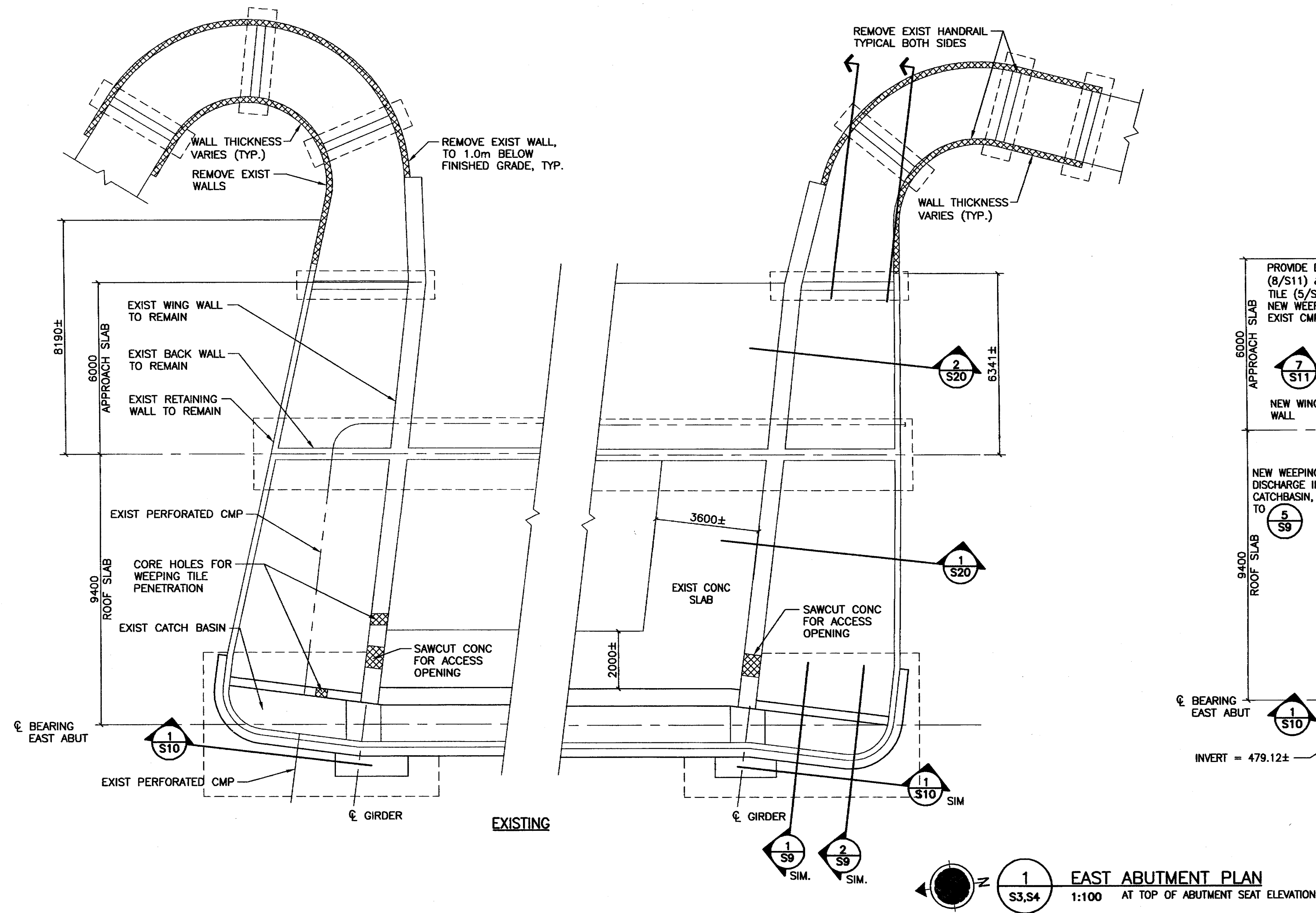
City of Saskatoon
 Infrastructure Services Department

CIRCLE DRIVE BRIDGE WIDENING

WEST ABUTMENT PLAN
 AT TOP OF ABUTMENT SEAT ELEVATION

GENERAL MANAGER	P. ENG
DATE	
SCALE: HOR. AS NOTED	SHEET NO. S5
VERT. AS NOTED	
PLAN NO.	

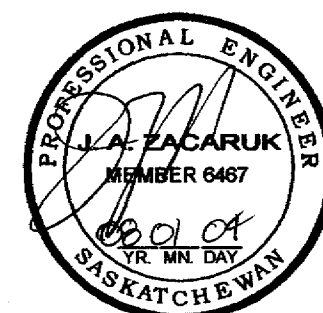
104-1002-005-r-001



NOTES:
1. LEGEND:
[Cross-hatched box] - DEMOLITION SHOWN THUS.
[Diagonal lines box] - EXISTING SHOWN THUS.

RECORD DRAWING

NO.	REVISIONS	DATE	BY
4	PROJECT RECORD DRAWINGS	08-01-04	RKC
3	ISSUED FOR TENDER	06-03-10	RKC
2	ISSUED FOR FINAL REVIEW	06-03-02	RKC
1	ISSUED FOR CLIENT REVIEW	06-02-08	RKC



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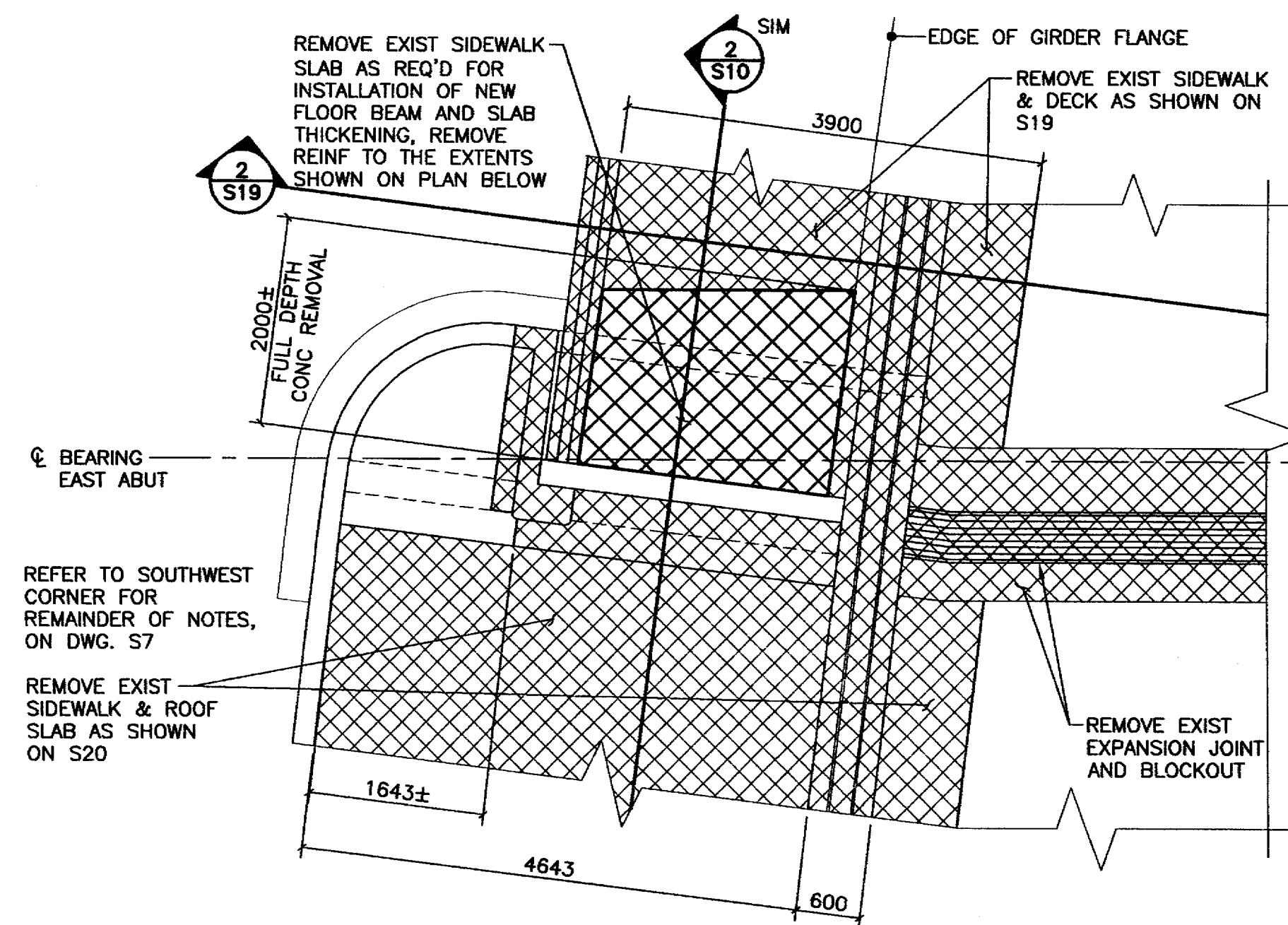
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ENGINEER	ENGINEER	ENGINEER	ENGINEER
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DATE 06-02-01	DATE	DATE	DATE
CHECKED BY	CHECKED BY	CHECKED BY	CHECKED BY
DATE	DATE	DATE	DATE



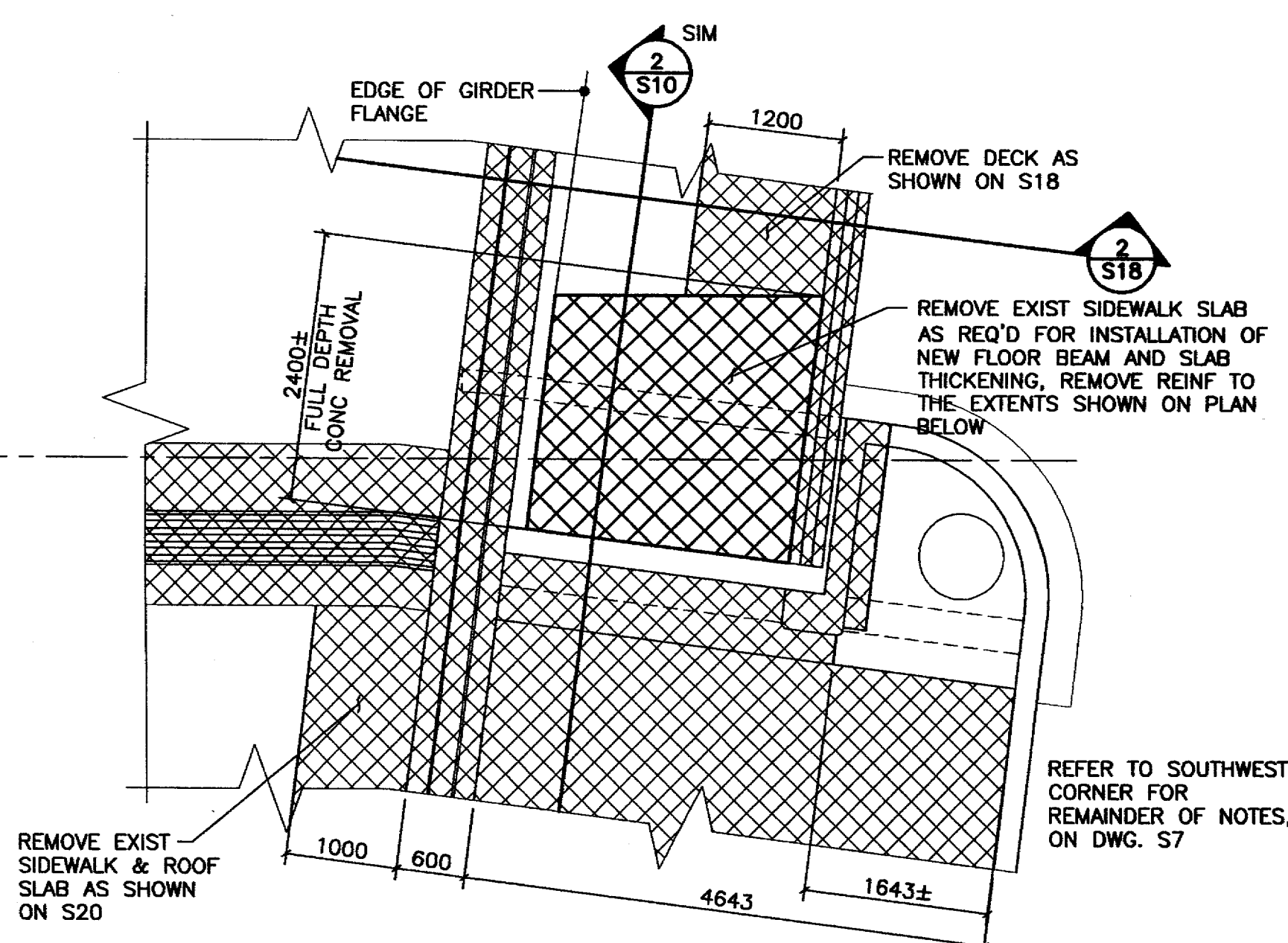
CIRCLE DRIVE BRIDGE WIDENING

EAST ABUTMENT PLAN
AT TOP OF ABUTMENT SEAT ELEVATION

GENERAL MANAGER	P. ENG
DATE	
SCALE: HOR. AS NOTED	SHEET NO. S6
VERT. AS NOTED	
PLAN NO. 104-1002-006 r001	

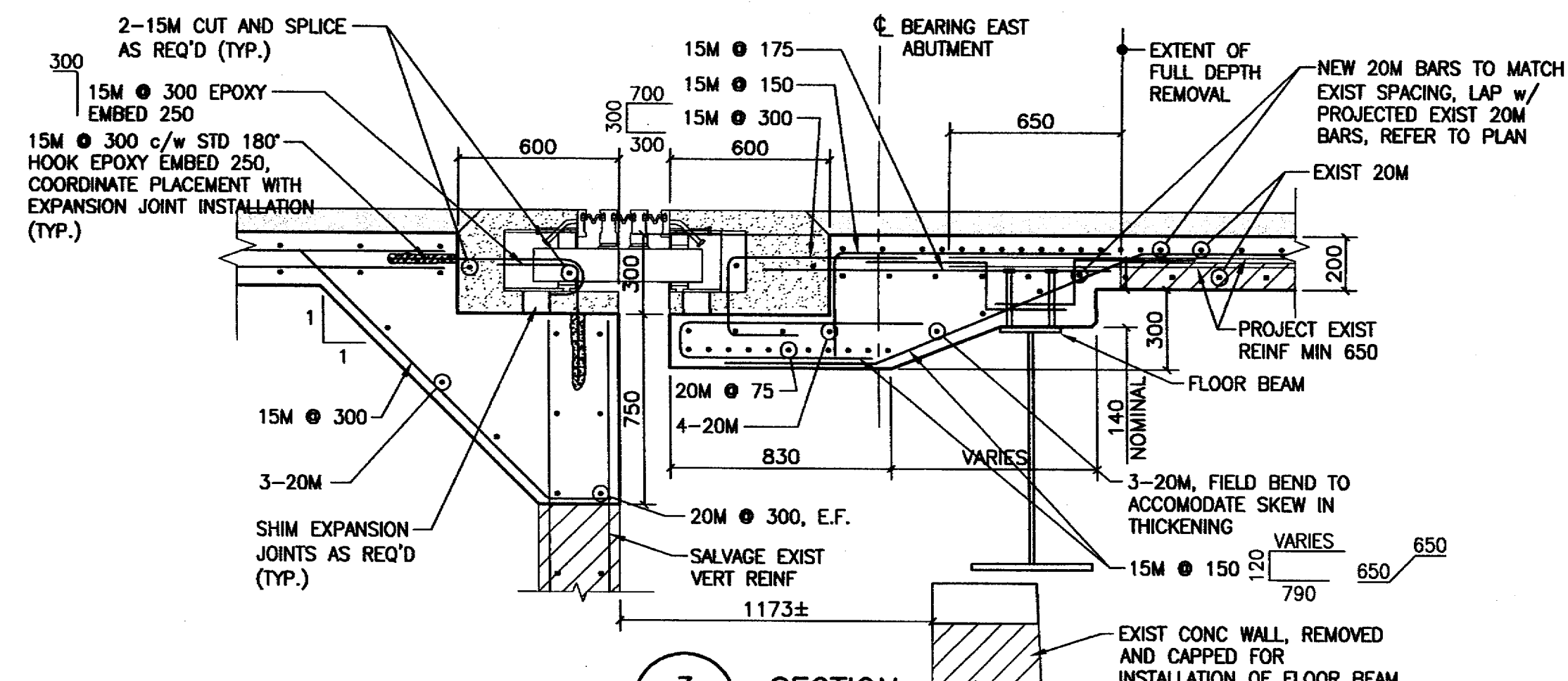


SOUTHEAST CORNER

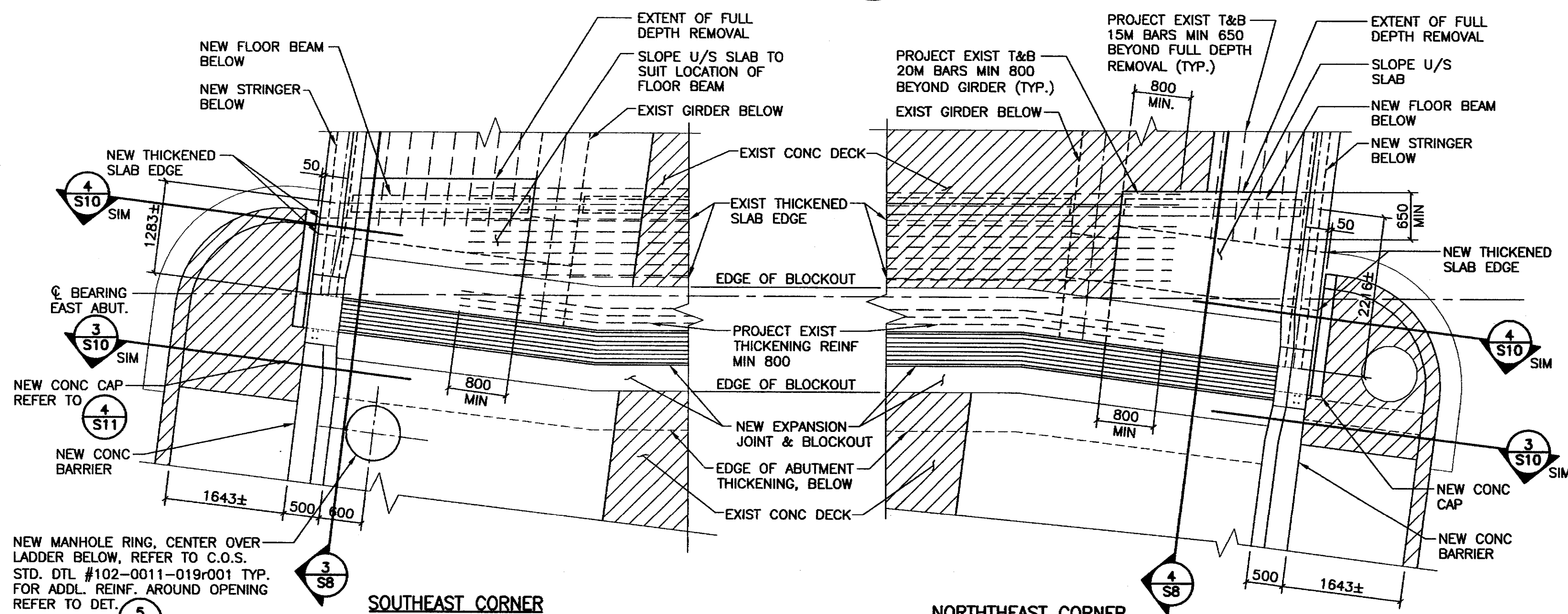


NORTHEAST CORNER

1 EXISTING PLAN
1:50 • TOP OF DECK ELEVATION



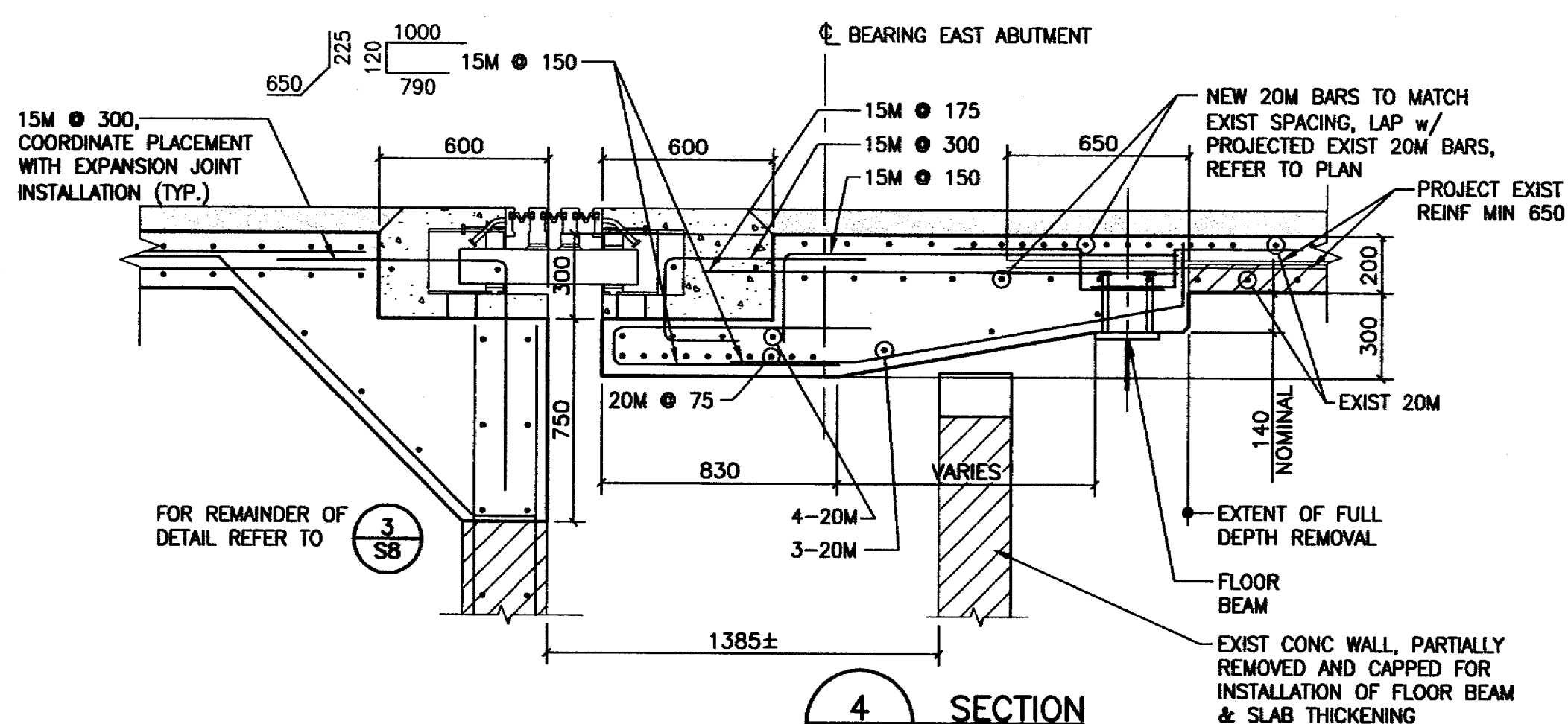
3 SECTION
SB 1:20



SOUTHEAST CORNER

NORTHEAST CORNER

2 PROPOSED PLAN
1:50 • TOP OF DECK ELEVATION



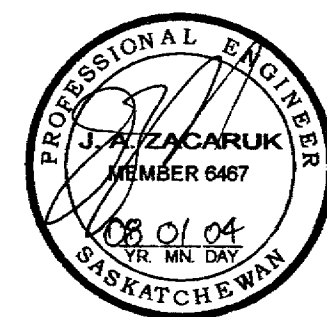
4 SECTION
SB 1:20

NOTES:

- LEGEND:
 - DEMOLITION SHOWN THUS.
 - EXISTING SHOWN THUS.
- ASPHALT NOT SHOWN FOR CLARITY.

RECORD DRAWING

NO.	REVISIONS	DATE	BY
4	PROJECT RECORD DRAWINGS	08-01-04	RKC
3	ISSUED FOR TENDER	06-03-10	RKC
2	ISSUED FOR FINAL REVIEW	06-03-02	MJB
1	ISSUED FOR CLIENT REVIEW	06-01-23	RKC



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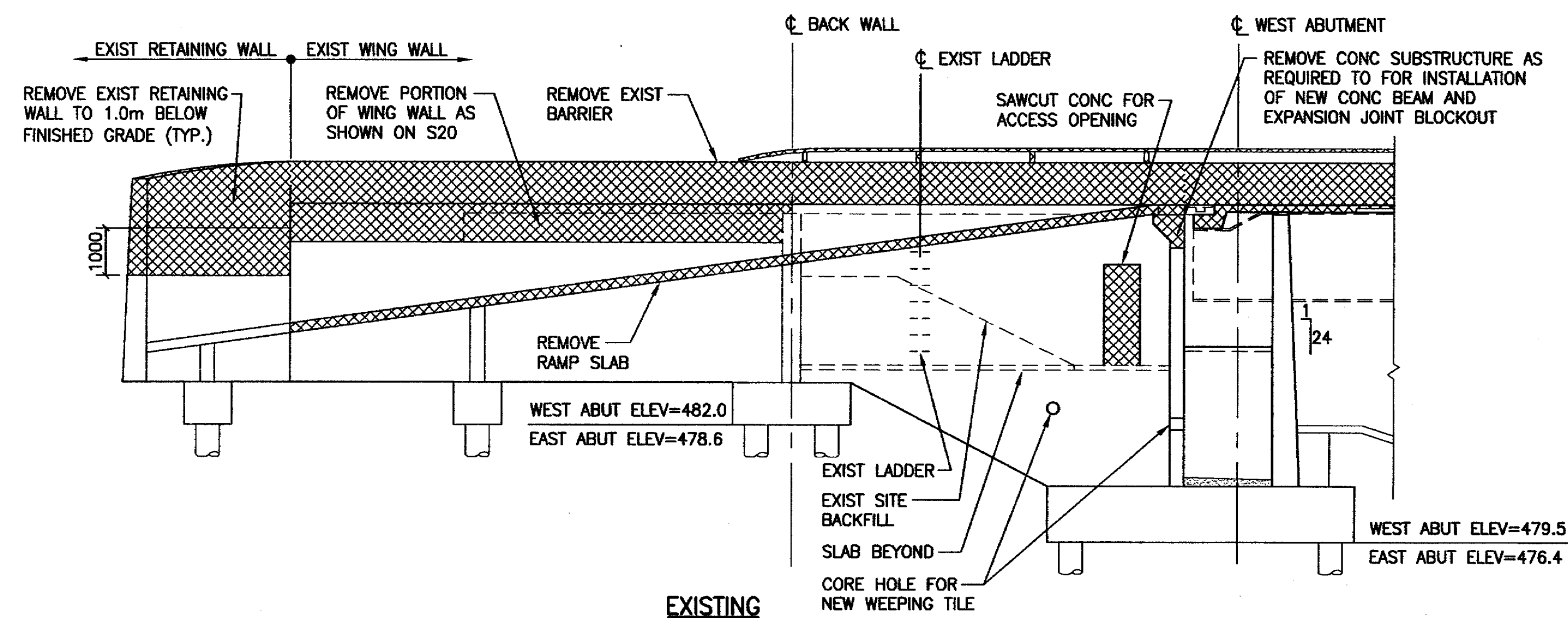
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ENGINEER	ENGINEER	ENGINEER
DRAWN BY: MJB	DRAWN BY:	DRAWN BY:
DATE: 06-01-19	DATE:	DATE:
CHECKED BY:	CHECKED BY:	CHECKED BY:
DATE:	DATE:	DATE:

City of Saskatoon
 Infrastructure Services Department

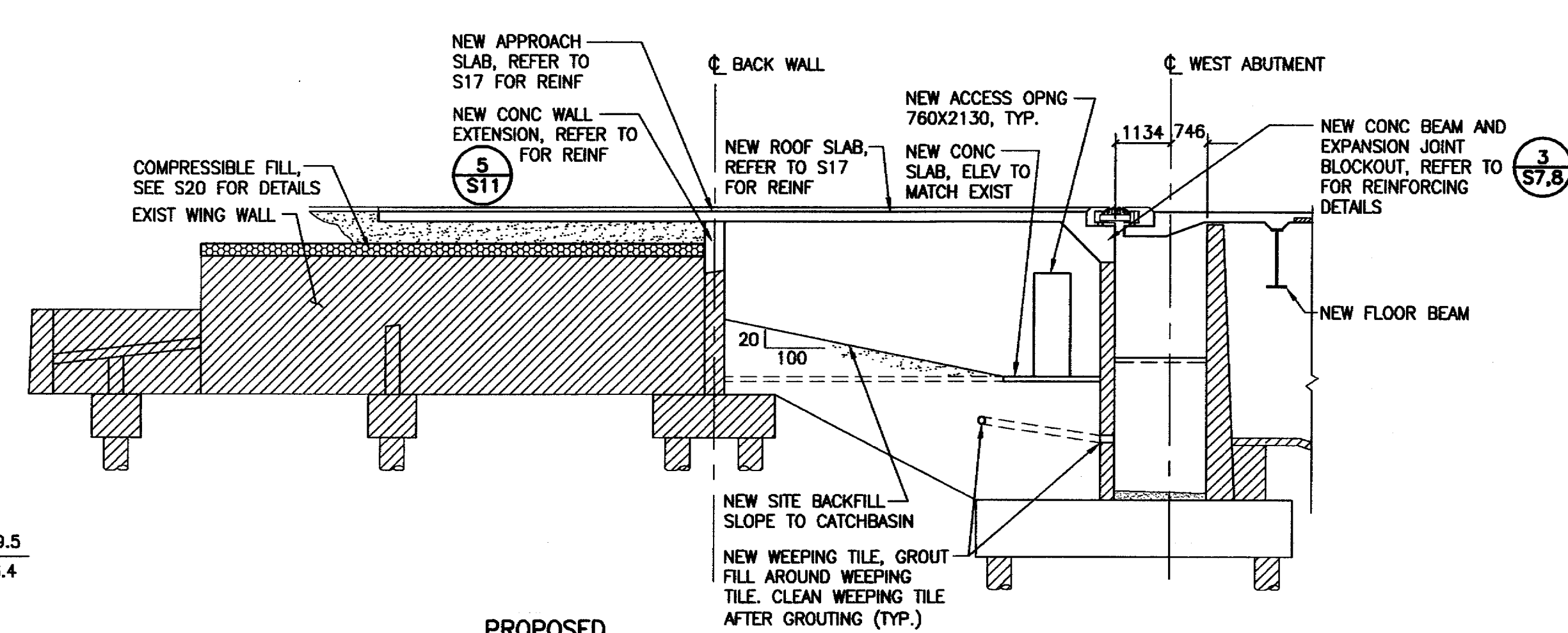
CIRCLE DRIVE BRIDGE WIDENING

EAST ABUTMENT PLAN
 AT TOP OF DECK ELEVATION

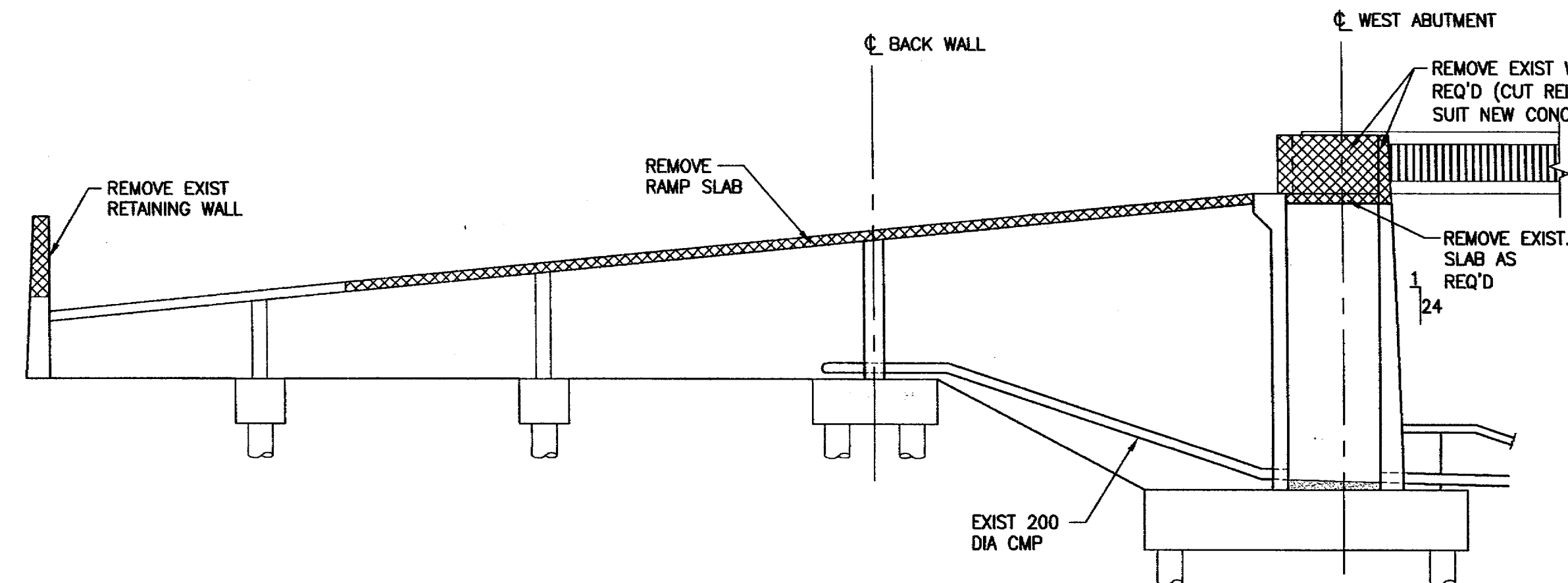
GENERAL MANAGER	P. ENG
DATE	
SCALE: AS NOTED	SHEET NO. S8
VERT. AS NOTED	
PLAN NO.	104-1002-008 r001



1 SECTION AT EXISTING WING WALL
S5,S6 1:100

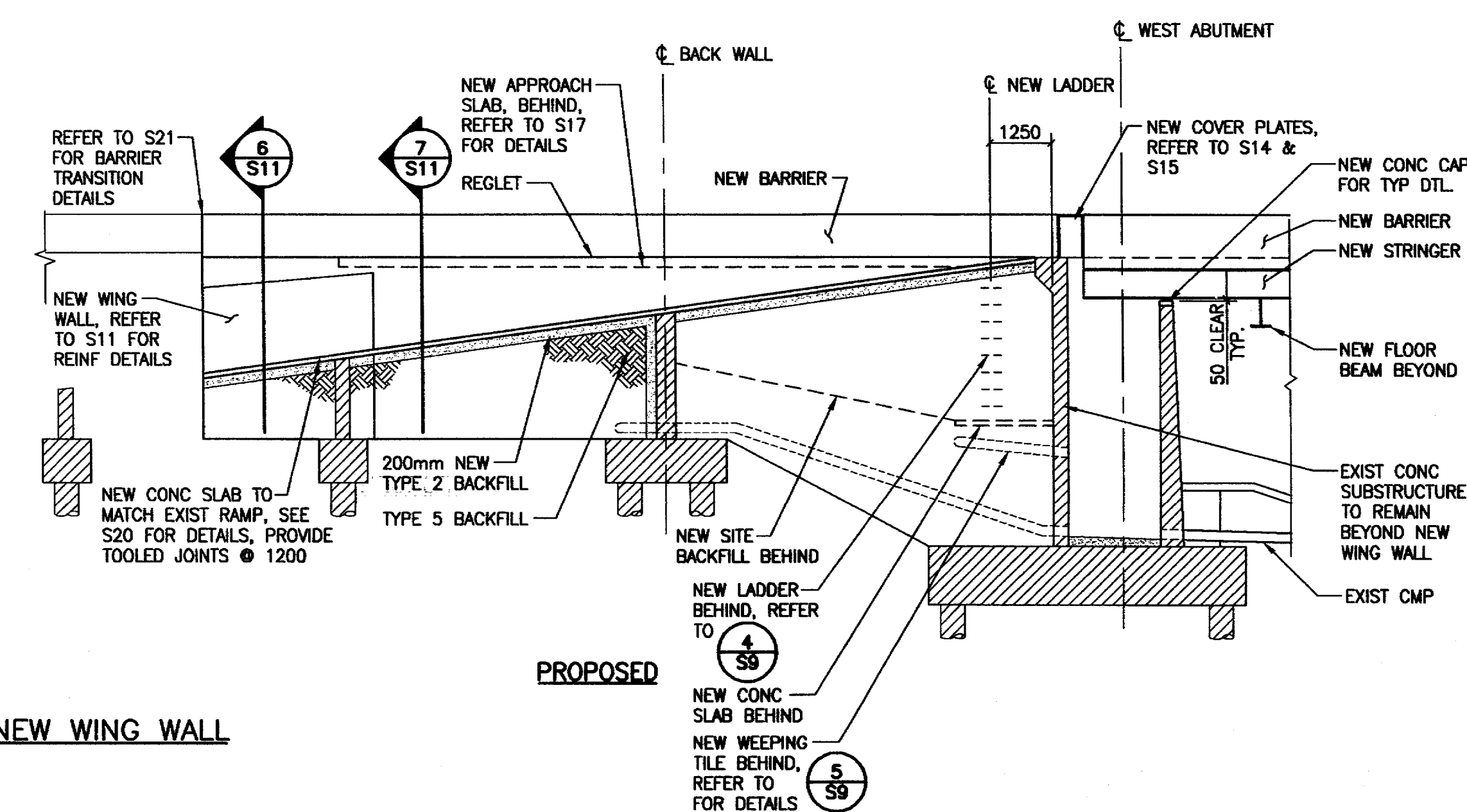


PROPOSED

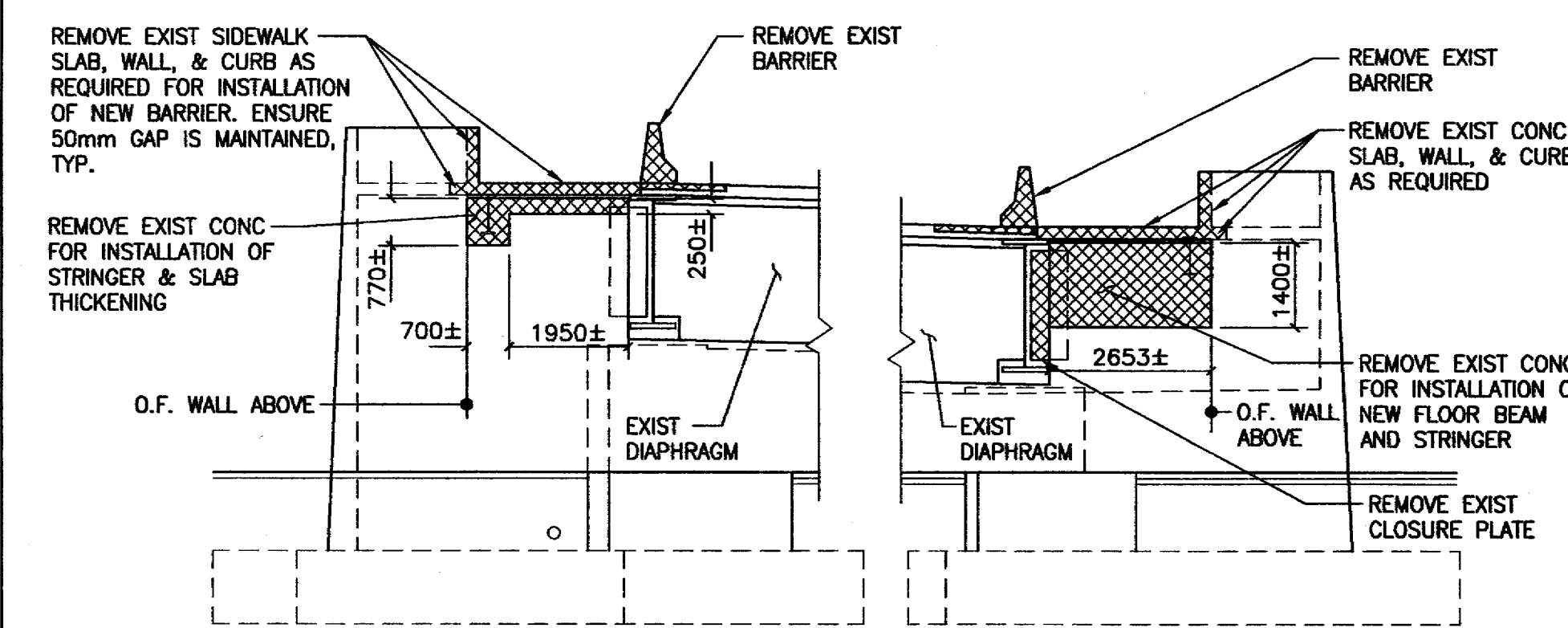


EXISTING

2 SECTION AT NEW WING WALL
S5,S6 1:100

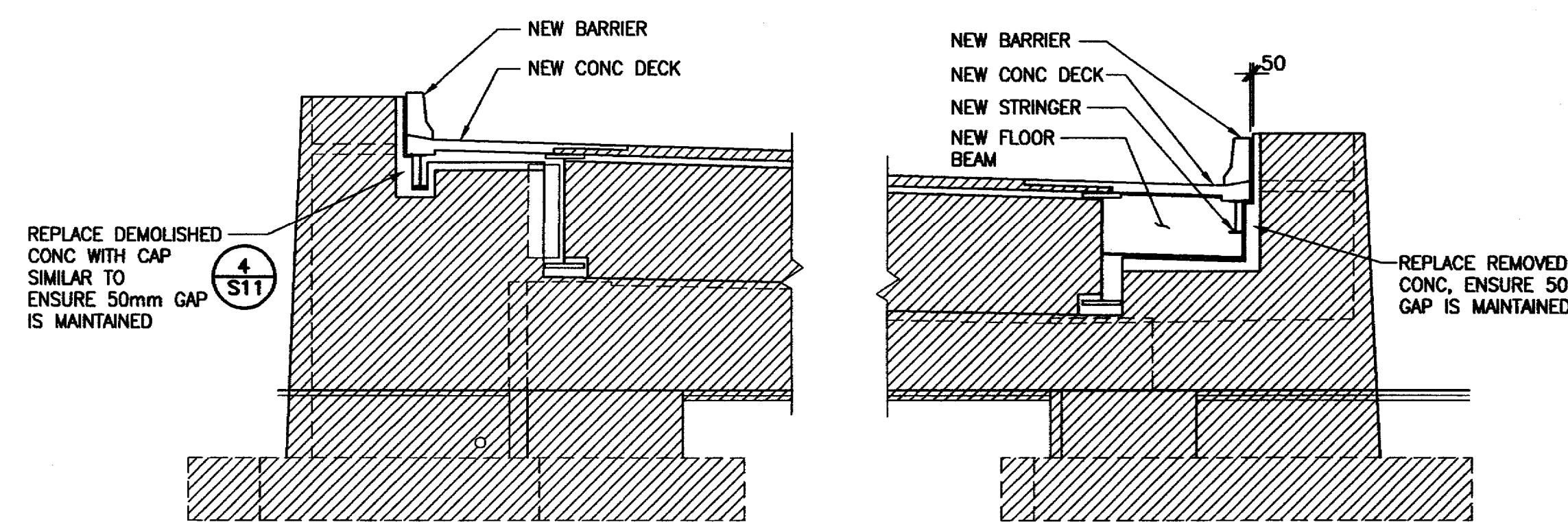


PROPOSED

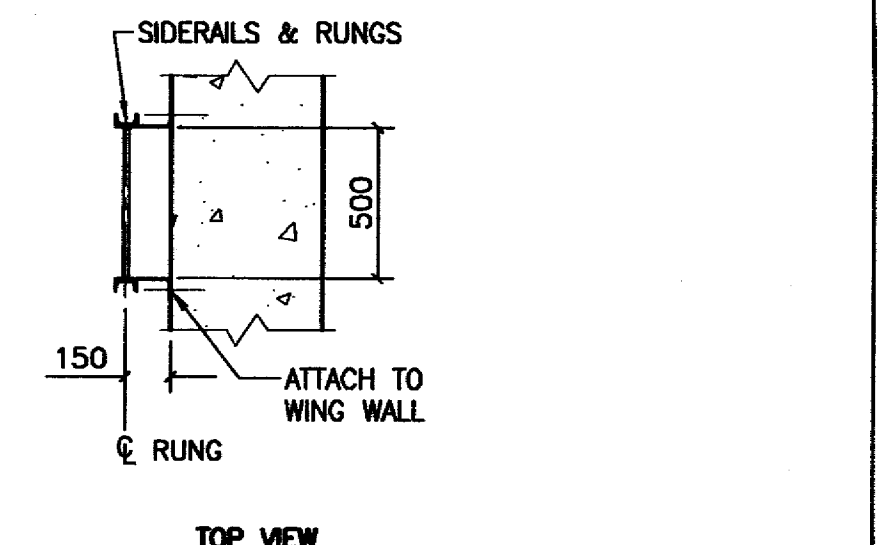


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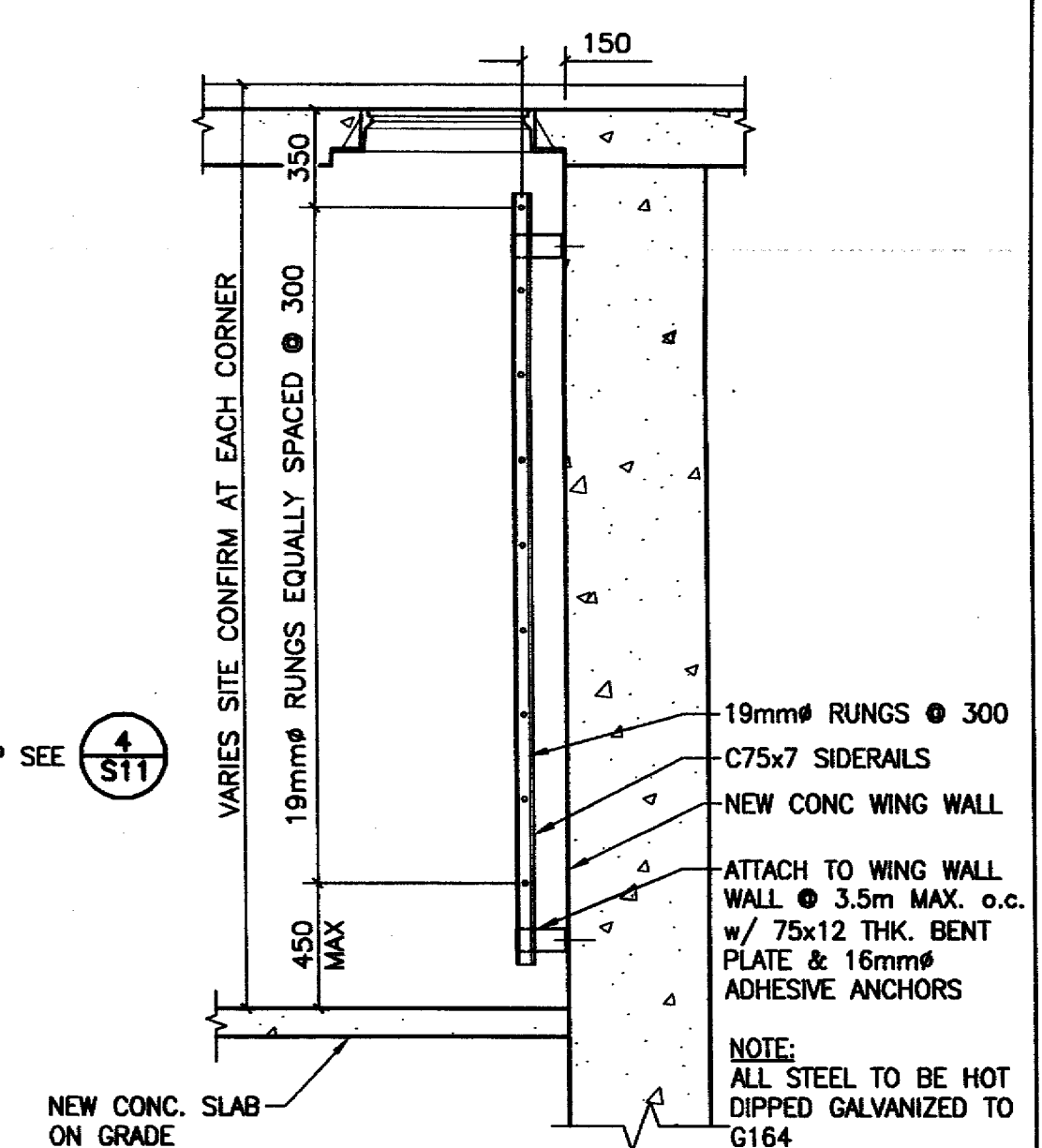
3 ABUTMENT ELEVATION @ WEST ABUTMENT
S5 1:100



PROPOSED

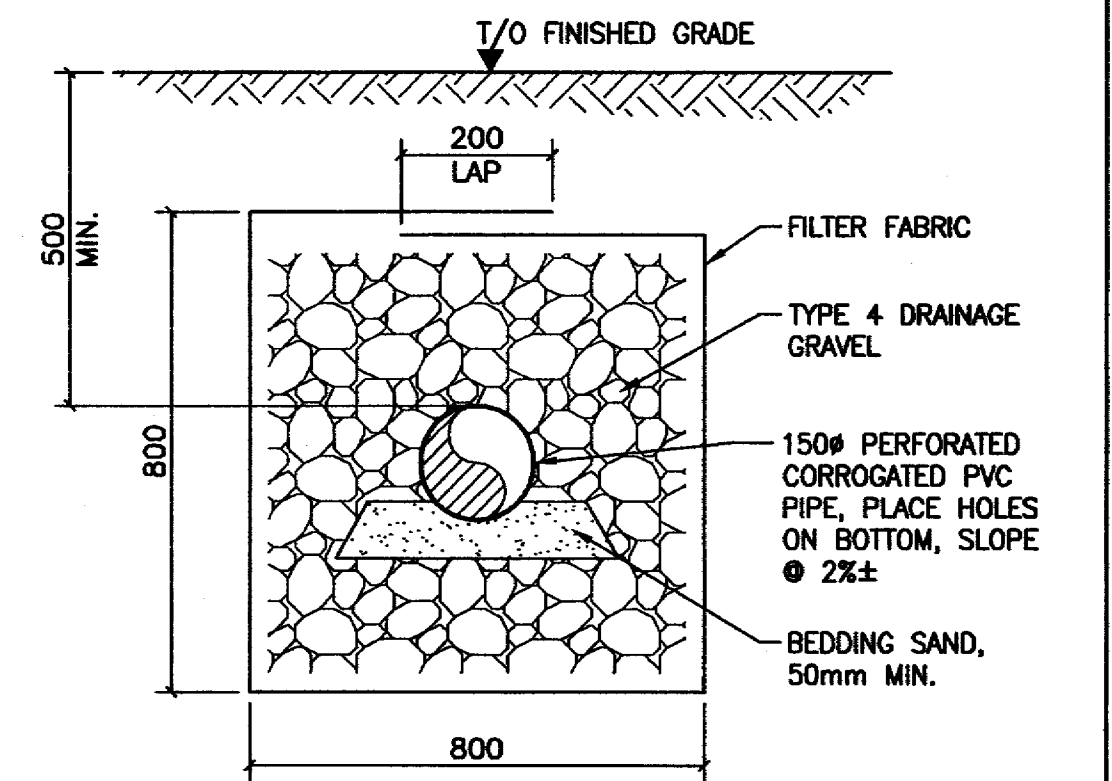


TOP VIEW



SIDE ELEVATION

4 LADDER DETAILS
S5,S6,9 1:25

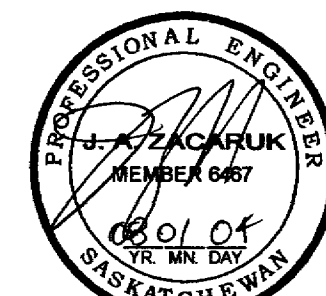


5 WEEPING TILE DETAIL
S5,S6,9,11 N.T.S.

NOTES:
1. LEGEND:
- DEMOLITION SHOWN THUS.
- EXISTING SHOWN THUS.
2. ALL DIMENSIONS SHOWN FOR CONCRETE REMOVAL MUST BE CONFIRMED ON SITE BY GENERAL CONTRACTOR.
3. ALL CONCRETE THAT IS REMOVE FROM ABUTMENT WALL AS SHOWN IN ELEVATION 3, THIS DWG. MUST BE REPLACED TO BLOCK ACCESS FOR PEOPLE AND DEBRIS INTO ABUTMENT.

RECORD DRAWING

NO.	REVISIONS	DATE	BY
4	PROJECT RECORD DRAWINGS	08-01-04	RKC
3	ISSUED FOR TENDER	06-03-10	RKC
2	ISSUED FOR FINAL REVIEW	06-03-02	RKC
1	ISSUED FOR CLIENT REVIEW	06-02-09	RKC

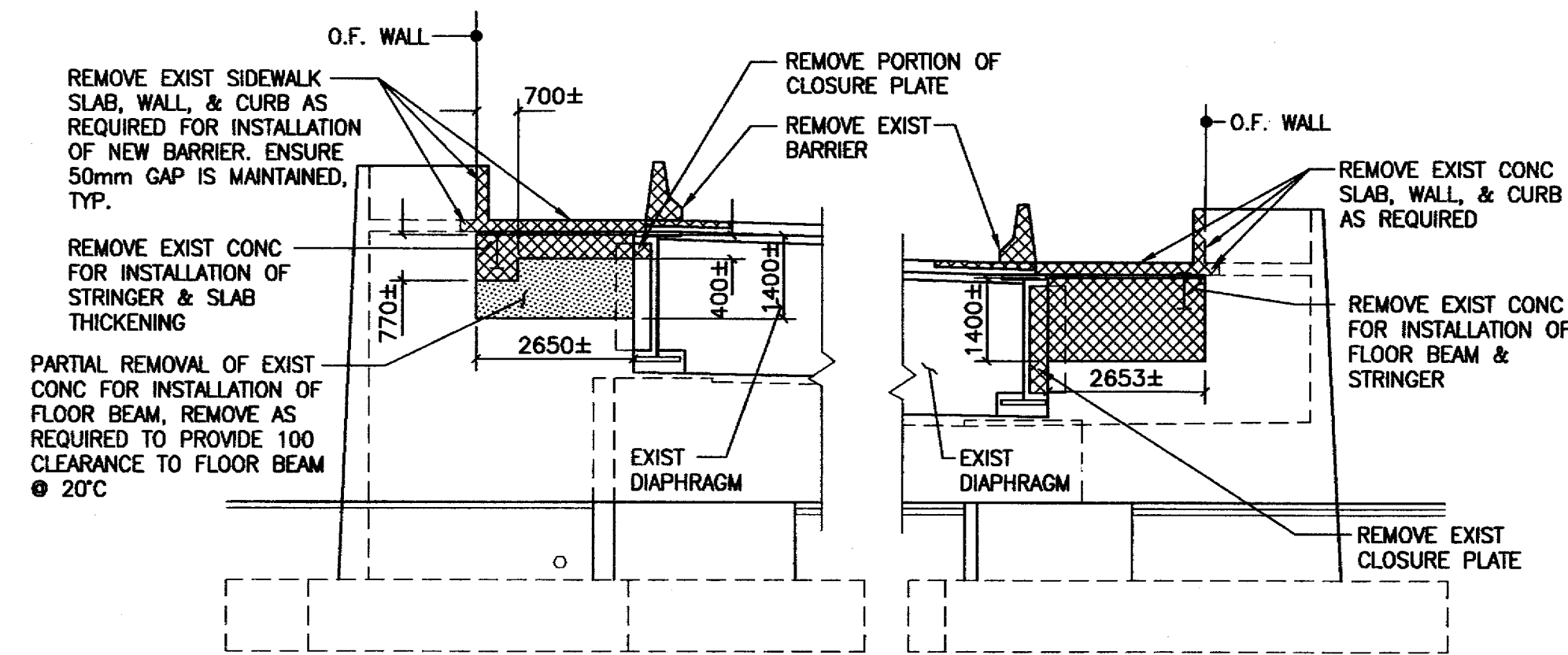


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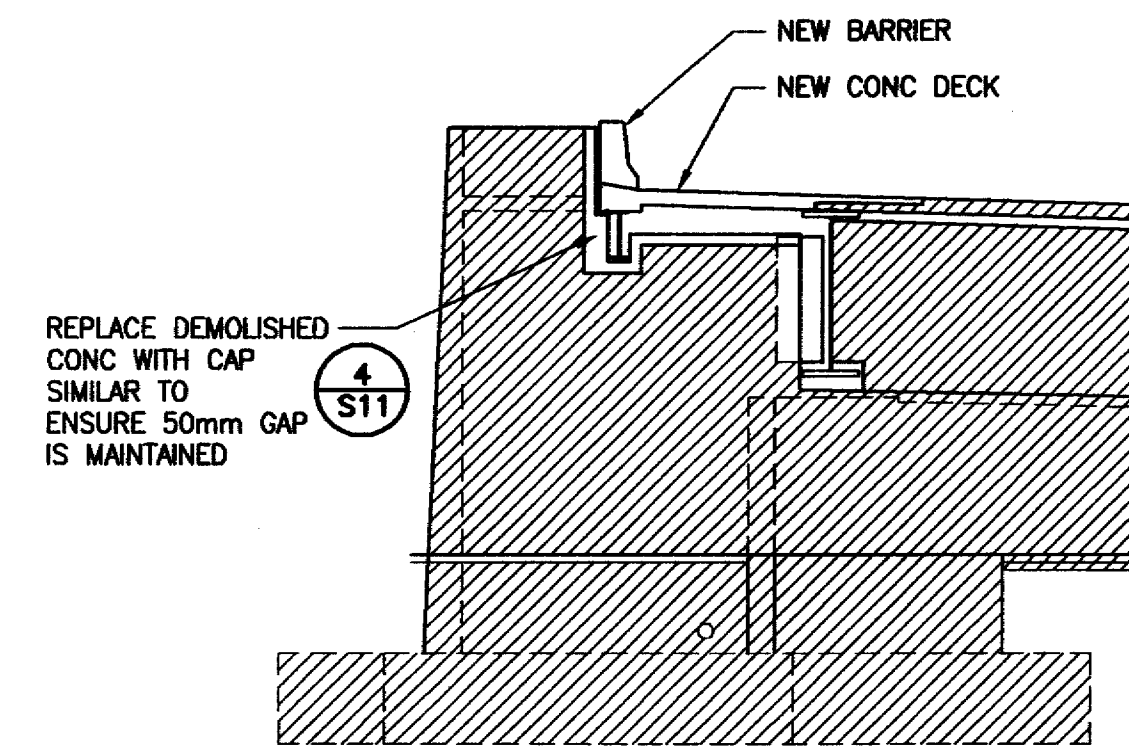
MUNICIPAL ENGINEERING		PUBLIC WORKS	
ENGINEER	ENGINEER	ENGINEER	ENGINEER
ENGINEER	ENGINEER	ENGINEER	ENGINEER
DRAWN BY KMF	DRAWN BY	DRAWN BY	DRAWN BY
DATE 06-02-01	DATE	DATE	DATE
CHECKED BY	CHECKED BY	CHECKED BY	CHECKED BY
DATE	DATE	DATE	DATE



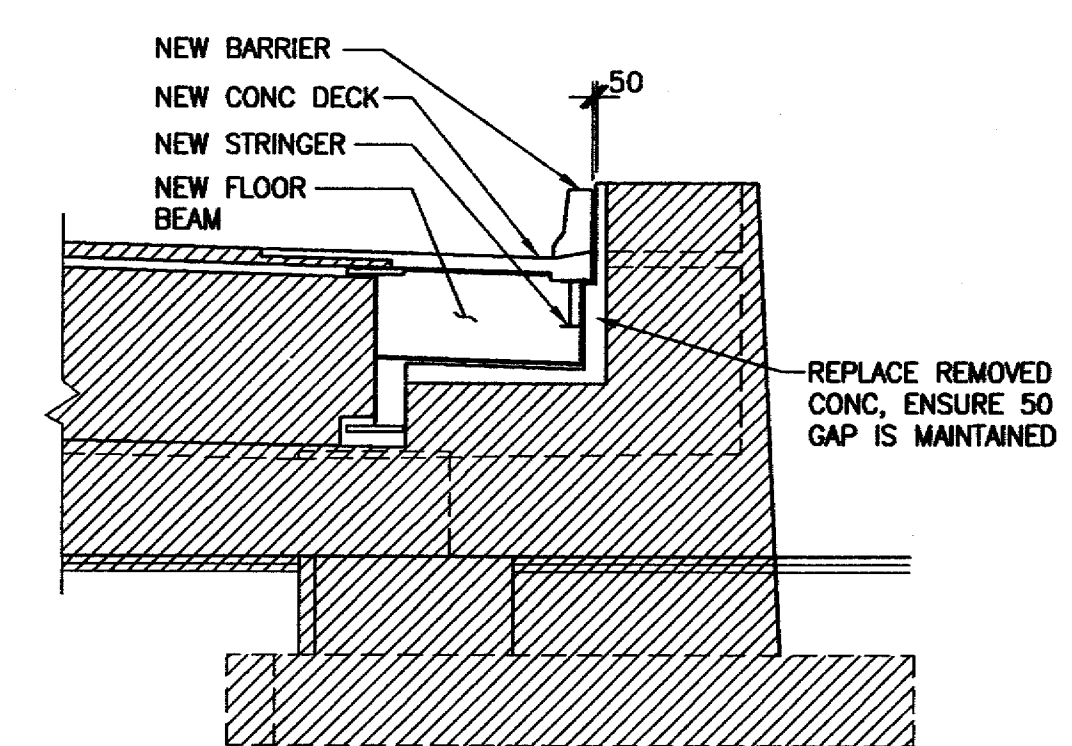
CIRCLE DRIVE BRIDGE WIDENING		P. ENG	
ABUTMENT		DATE	
SECTIONS & DETAILS		SHEET NO. S9	
GENERAL MANAGER		DATE	
SCALE: HOR. AS NOTED		SHEET NO. S9	
VERT. AS NOTED		DATE	
PLAN NO. 104-1002-009-001		DATE	



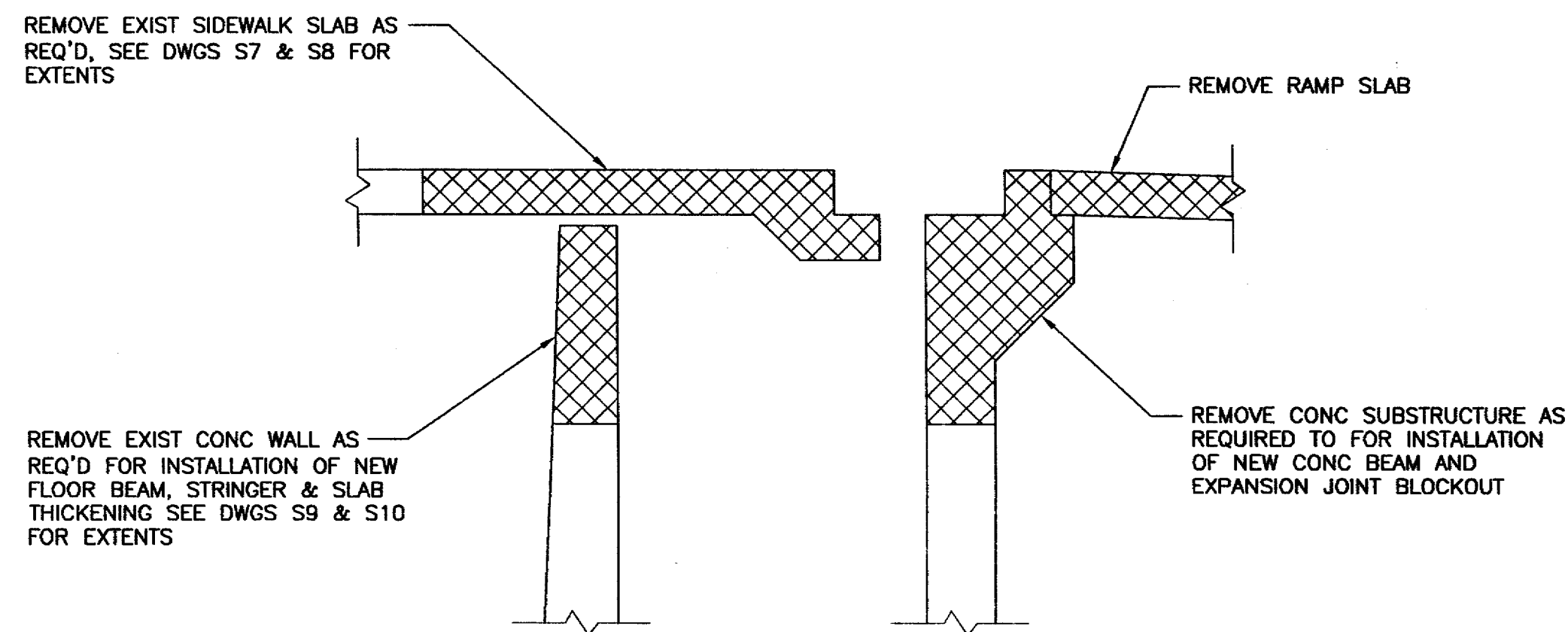
EXISTING



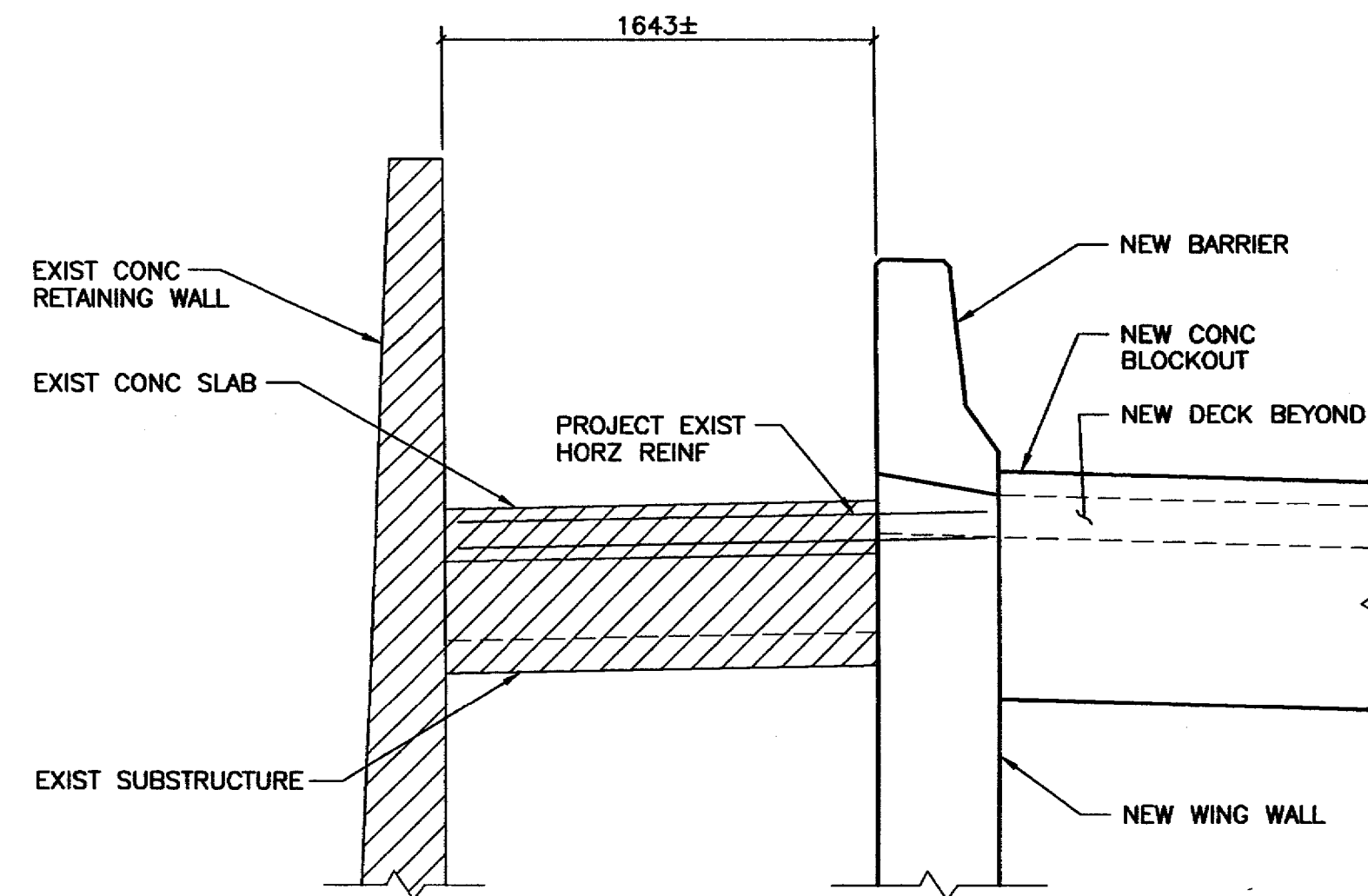
PROPOSED



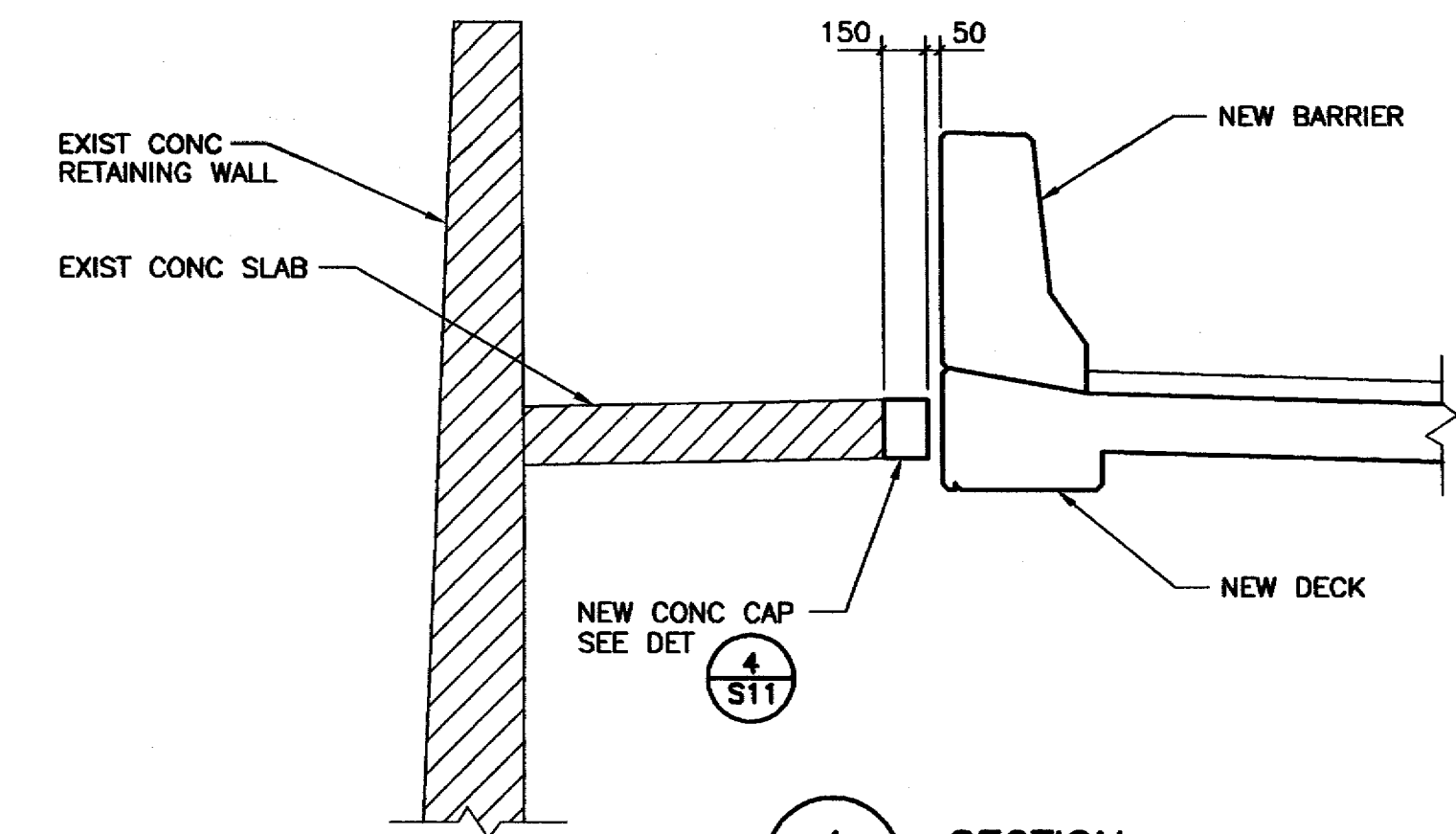
1 ABUTMENT ELEVATION @ EAST ABUTMENT
S6 1:100



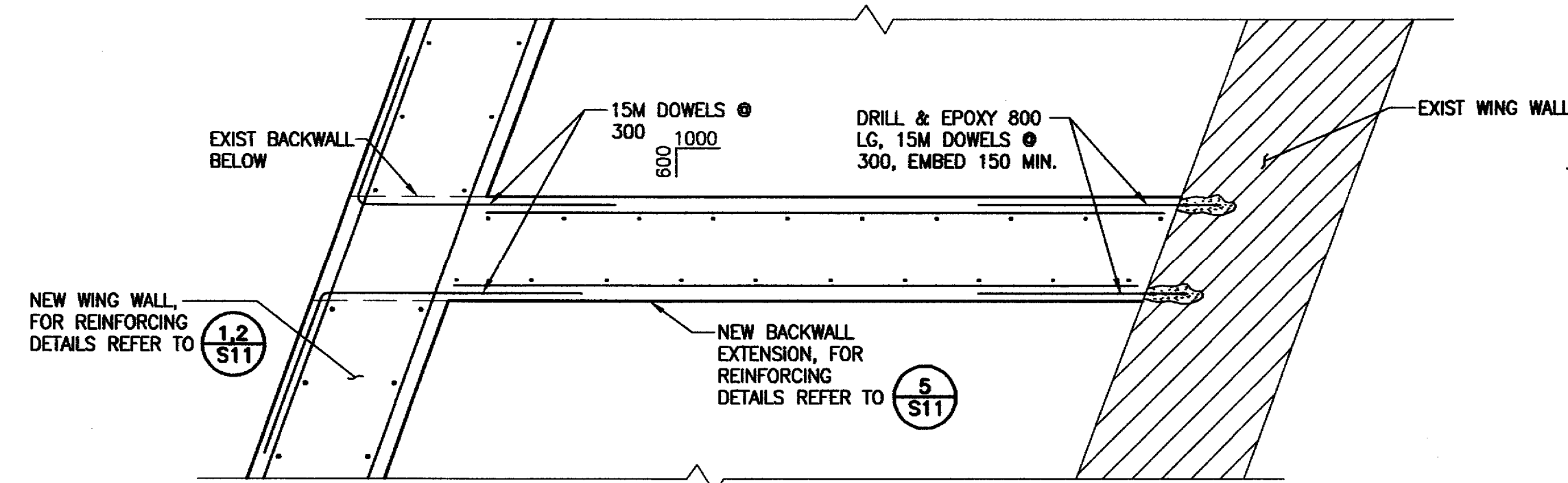
2 SECTION
S7,S8 1:25



3 SECTION
S7,S8 1:25



4 SECTION
S7,S8 1:25

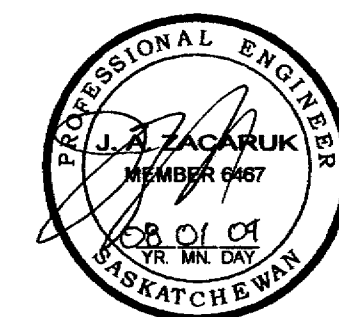


5 DETAIL
S5,S6 1:20

- NOTES:**
1. LEGEND:
- DEMOLITION SHOWN THUS.
 - EXISTING SHOWN THUS.

RECORD DRAWING

NO.	REVISIONS	DATE	BY
4	PROJECT RECORD DRAWINGS	08-01-04	RKC
3	ISSUED FOR TENDER	06-03-10	RKC
2	ISSUED FOR FINAL REVIEW	06-03-02	RKC
1	ISSUED FOR CLIENT REVIEW	06-02-09	RKC



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 STANTEC CONSULTING LTD.
 Number C969
 Permission to Consult held by:
 Discipline Sk. Reg. No. Signature
 STRUCT 6467

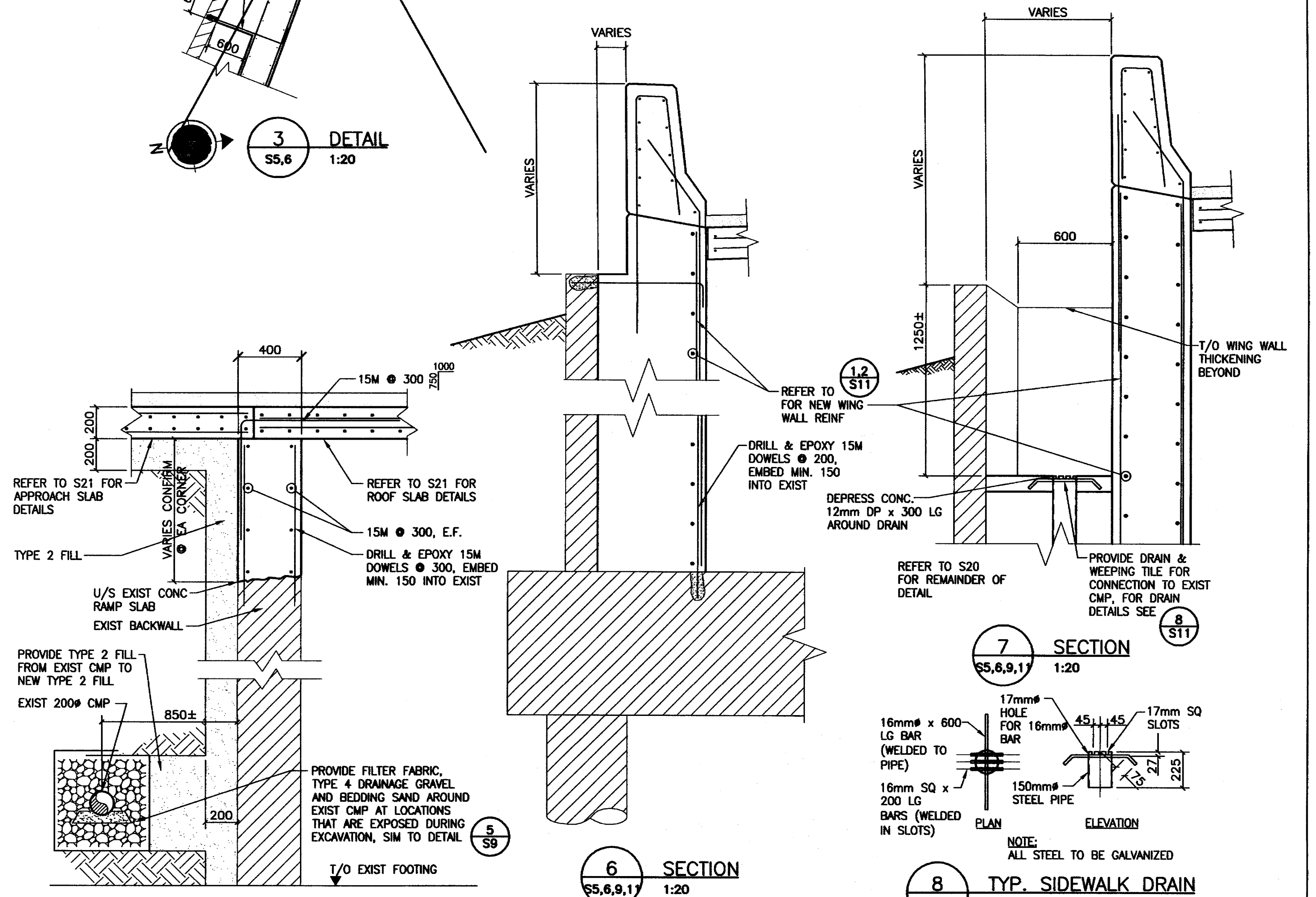
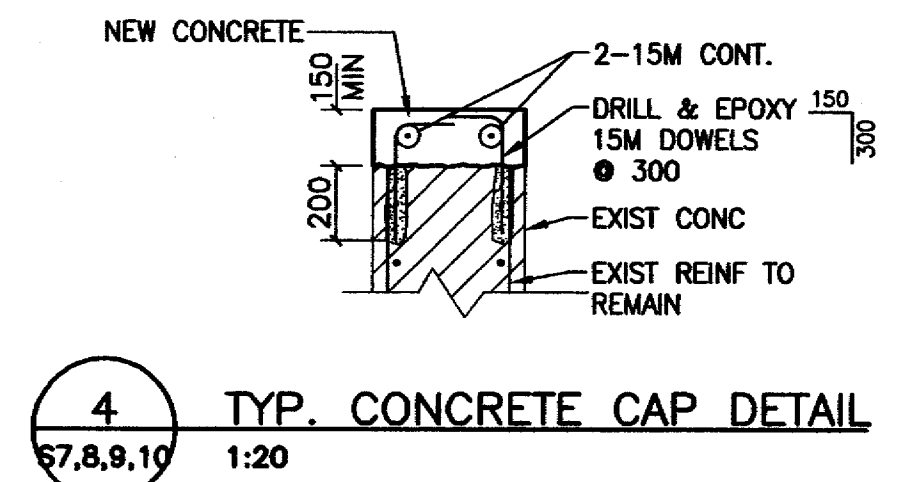
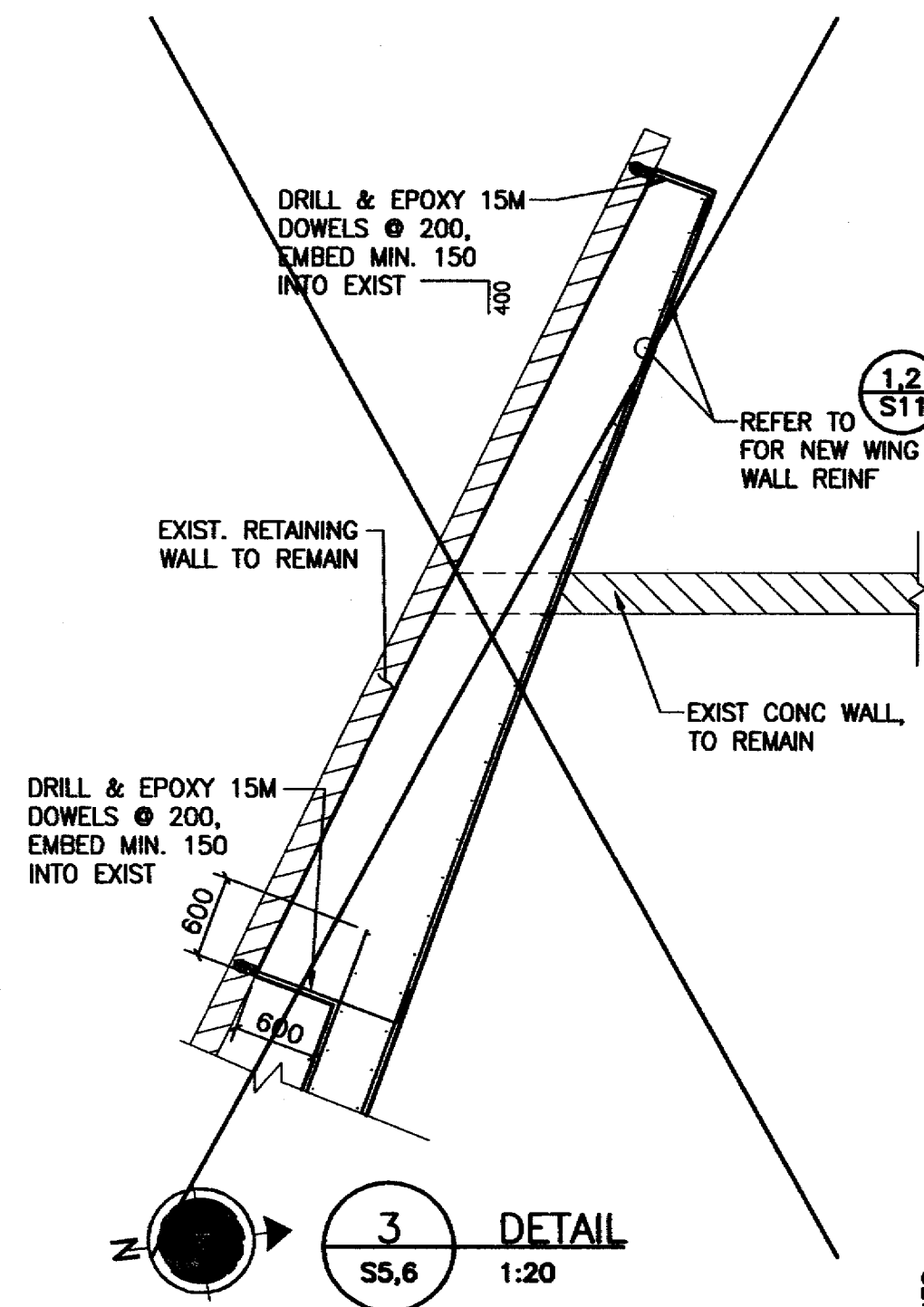
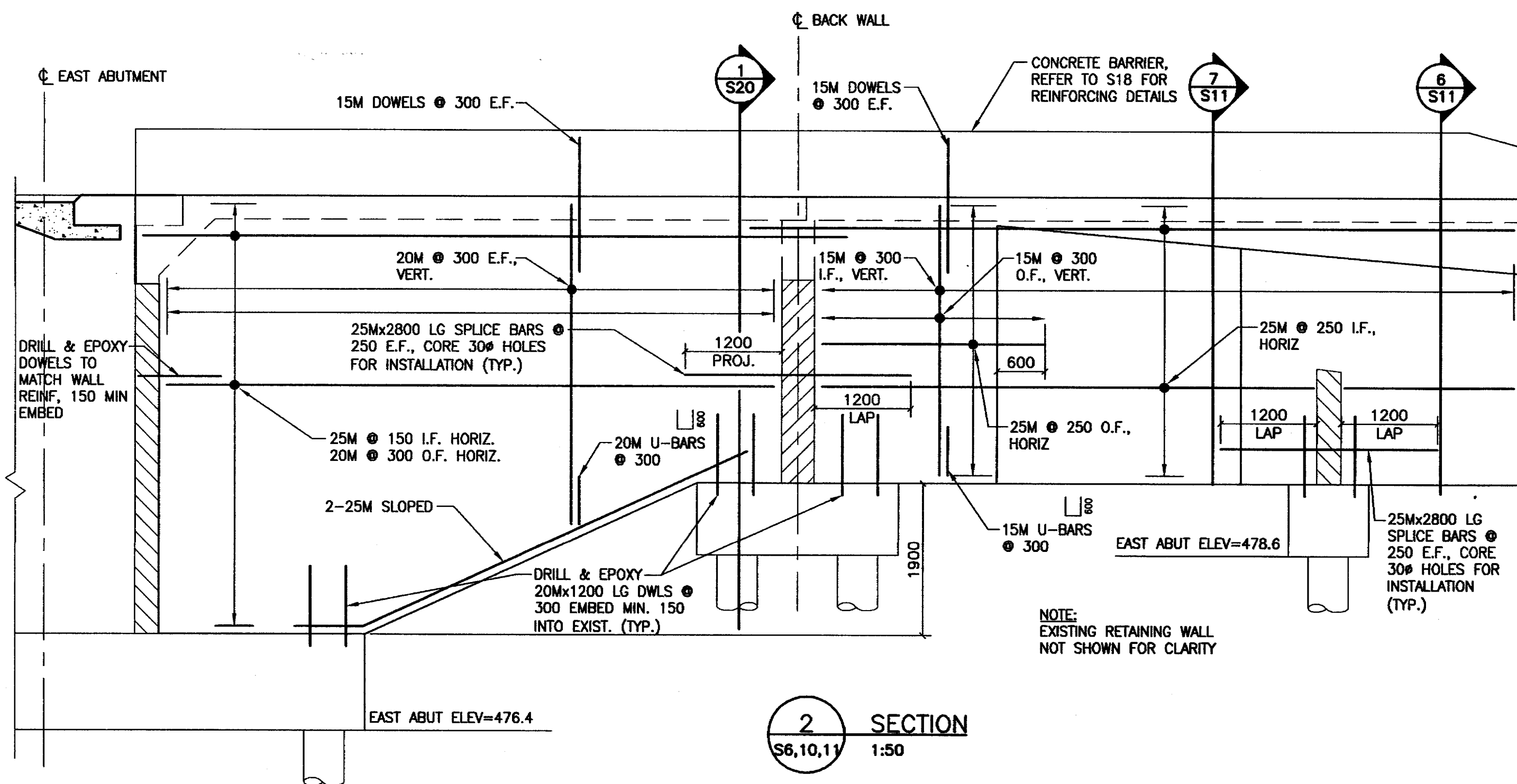
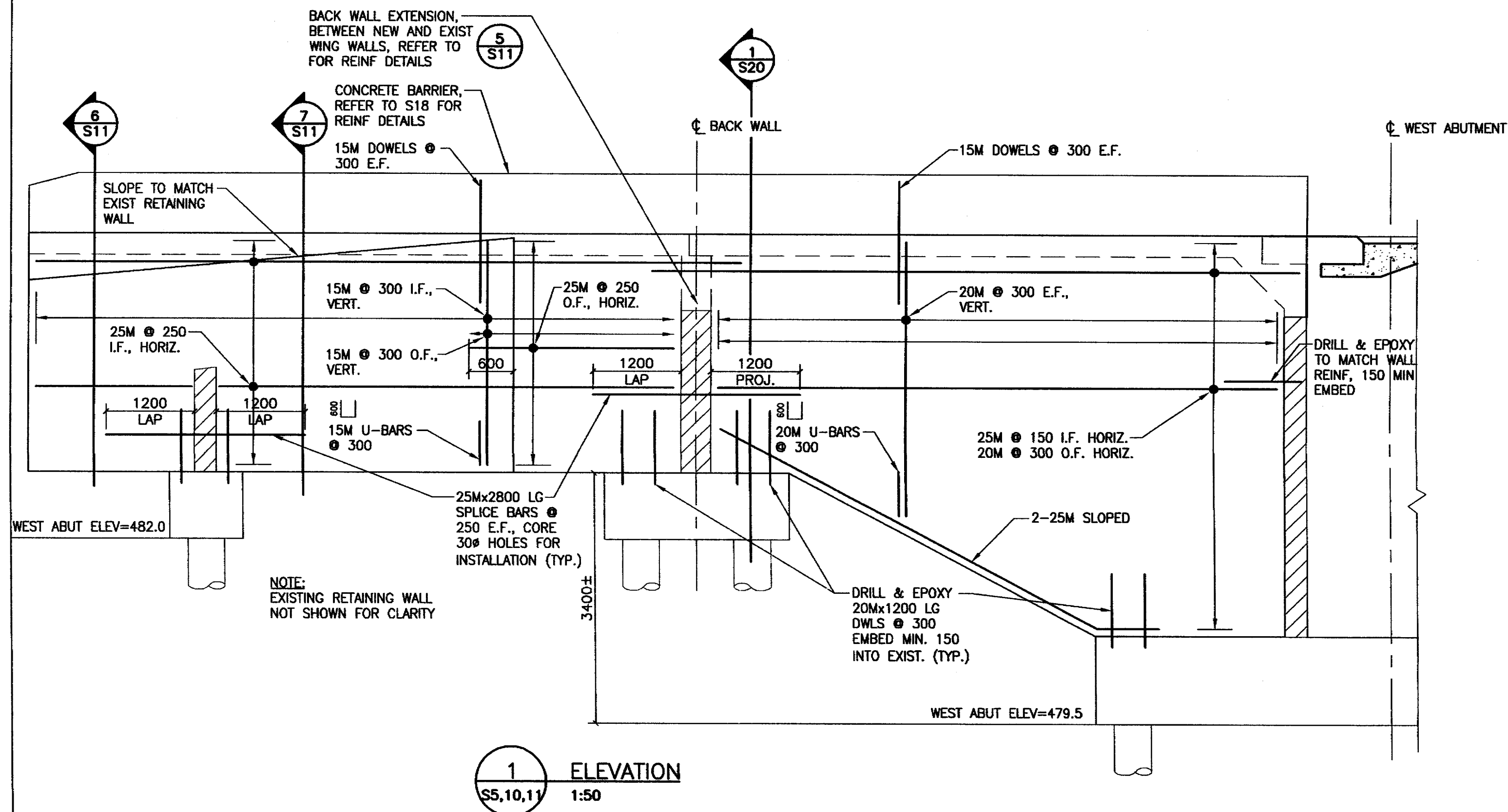
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ENGINEER	ENGINEER	ENGINEER
ENGINEER	ENGINEER	ENGINEER
DRAWN BY KMF	DRAWN BY	DRAWN BY
DATE 06-02-01	DATE	DATE
CHECKED BY	CHECKED BY	CHECKED BY
DATE	DATE	DATE

City of Saskatoon
 Infrastructure Services Department

CIRCLE DRIVE BRIDGE WIDENING

ABUTMENT SECTIONS

GENERAL MANAGER	P. ENG
DATE	
SCALES:	SHEET NO.
HOR. AS NOTED	S10
VERT. AS NOTED	
PLAN NO.	
104-1002-010r001	



RECORD DRAWING

NO.	REVISIONS	DATE	BY
4	PROJECT RECORD DRAWINGS	08-01-04	RKC
3	ISSUED FOR TENDER	06-03-10	RKC
2	ISSUED FOR FINAL REVIEW	06-03-02	RKC
1	ISSUED FOR CLIENT REVIEW	06-02-09	RKC



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 STANTEC CONSULTING LTD.
 Number C989
 Permission to Consult held by:
 Discipline Sk. Reg. No. Signature
 STRUCT 6467

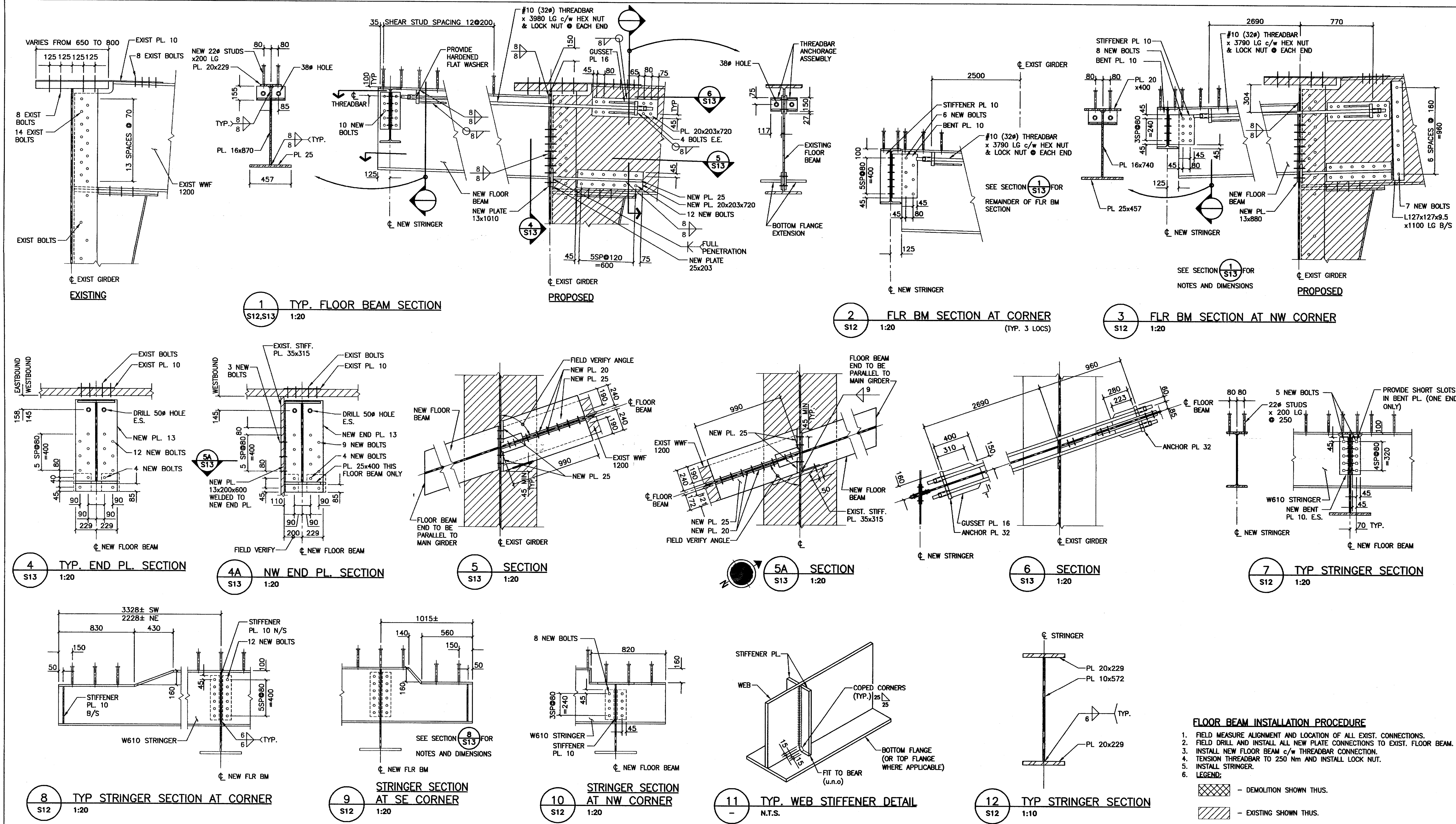
	MUNICIPAL ENGINEERING	PUBLIC WORKS
ENGINEER	ENGINEER	ENGINEER
ENGINEER	ENGINEER	ENGINEER
DRAWN BY KMF	DRAWN BY	DRAWN BY
DATE 06-02-01	DATE	DATE
CHECKED BY	CHECKED BY	CHECKED BY
DATE	DATE	DATE

City of Saskatoon
 Infrastructure Services Department

CIRCLE DRIVE BRIDGE WIDENING

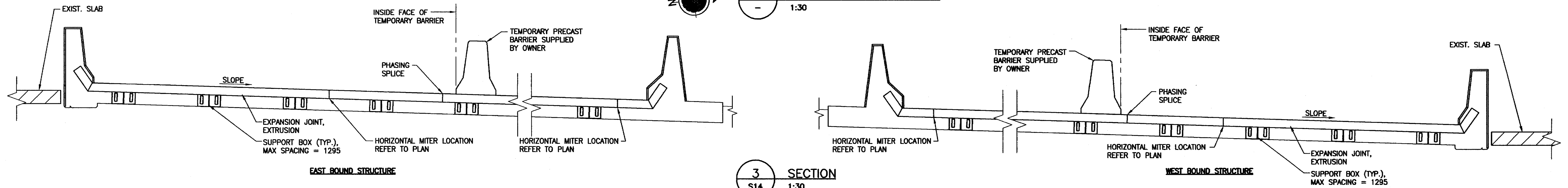
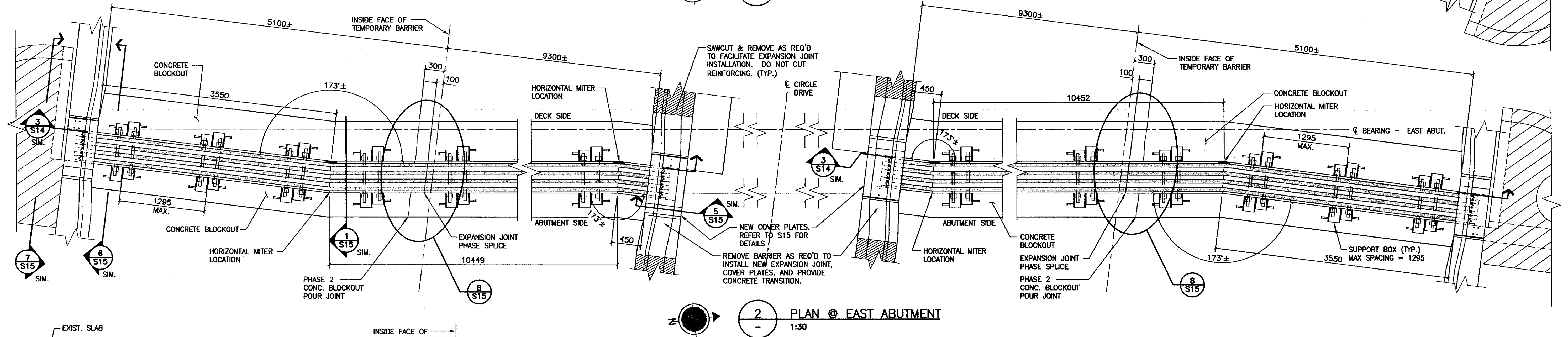
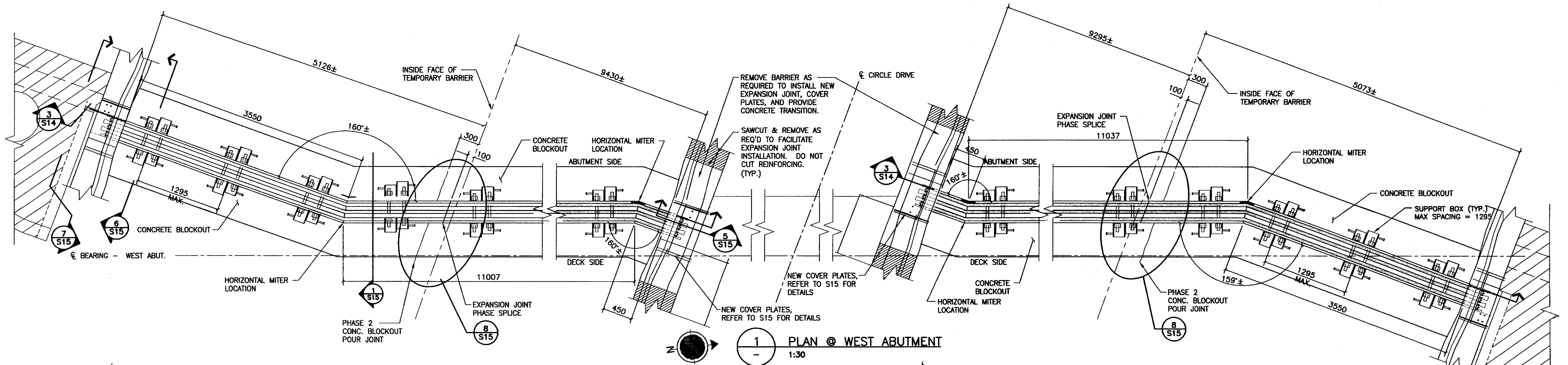
ABUTMENT REINFORCING
 DETAILS

GENERAL MANAGER	P. ENG
DATE	
SCALE: HOR. AS NOTED	SHEET NO. S11
VERT. AS NOTED	
PLAN NO.	104-1003-011-001



RECORD DRAWING

<p>4 PROJECT RECORD DRAWINGS 08-01-04 RKC</p> <p>3 ISSUED FOR TENDER 08-03-10 RKC</p> <p>2 ISSUED FOR FINAL REVIEW 08-03-02 RKC</p> <p>1 ISSUED FOR CLIENT REVIEW 08-01-23 RKC</p>		<p>NO. REVISIONS DATE BY</p>		<p>PROFESSIONAL ENGINEER</p> <p>Association of Professional Engineers & Geoscientists of Saskatchewan</p> <p>CERTIFICATE OF AUTHORIZATION</p> <p>STANTEC CONSULTING LTD.</p> <p>Number C969</p> <p>Permission to Consult held by:</p> <p>Discipline Sk. Reg. No. Signature</p> <p>STRUCT 6467</p>		<p>MUNICIPAL ENGINEERING</p> <p>ENGINEER</p> <p>ENGINEER</p> <p>ENGINEER</p> <p>ENGINEER</p>		<p>PUBLIC WORKS</p> <p>City of Saskatoon</p> <p>Infrastructure Services Department</p>		<p>CIRCLE DRIVE BRIDGE WIDENING</p> <p>FLOOR BEAM AND STRINGER</p> <p>SECTIONS & DETAILS</p>		<p>GENERAL MANAGER P. ENR</p> <p>DATE</p> <p>SCALE: AS NOTED</p> <p>VERT. AS NOTED</p> <p>PLAN NO. 104-1002-013r.001</p>	
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- NOTES:
- FOR EXPANSION JOINT ELEVATIONS REFER TO DRAWING S16.
 - HORIZONTAL MITER ANGLE AND LOCATION TO BE CONFIRMED ON SITE BY GENERAL CONTRACTOR.
 - CONTRACTOR TO CONFIRM LOCATION OF PHASING SPLICE.

RECORD DRAWING

NO.	REVISIONS	DATE	BY
4	PROJECT RECORD DRAWINGS	08-01-04	RKC
3	ISSUED FOR TENDER	06-03-10	RKC
2	ISSUED FOR FINAL REVIEW	06-03-02	BAB
1	ISSUED FOR CLIENT REVIEW	06-01-23	RKC



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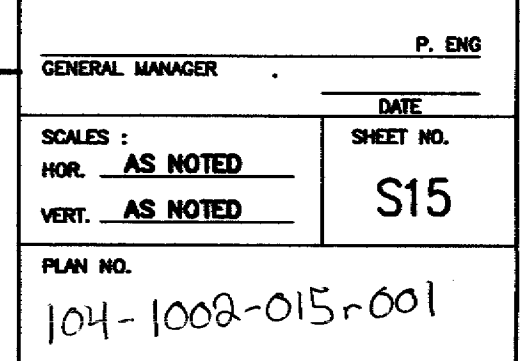
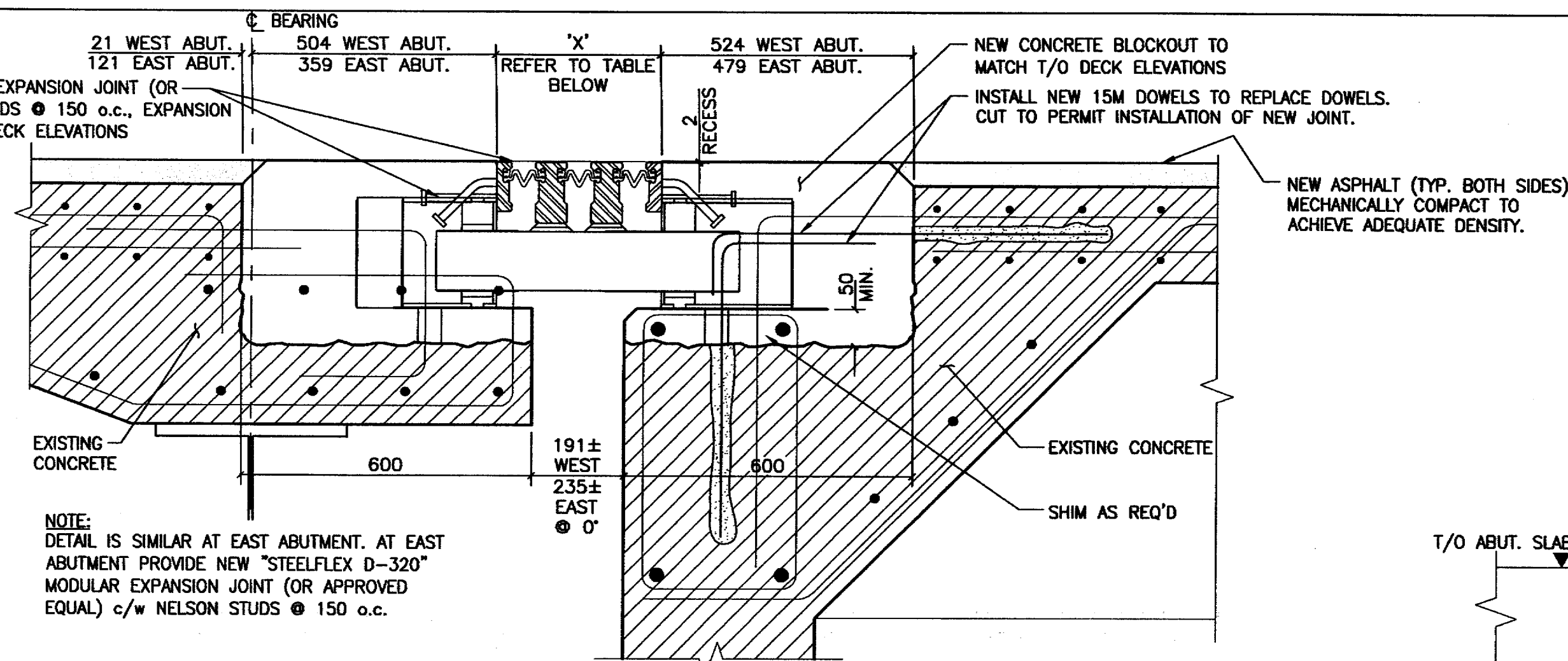
MUNICIPAL ENGINEERING	PUBLIC WORKS
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ENGINEER	ENGINEER
DRAWN BY MJB	DRAWN BY
DATE 06-01-19	DATE
CHECKED BY	CHECKED BY
DATE	DATE

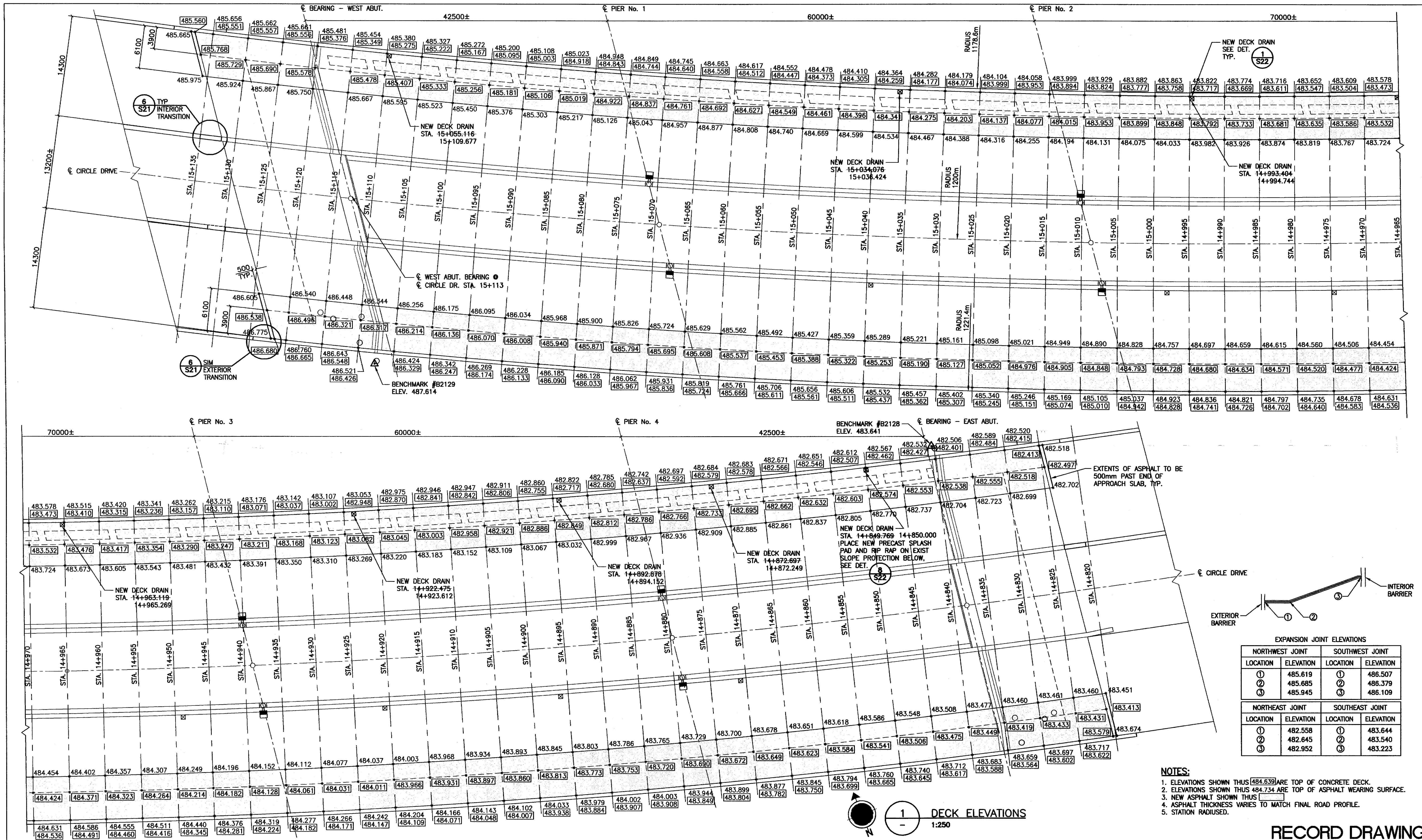
City of Saskatoon
 Infrastructure Services Department

CIRCLE DRIVE BRIDGE WIDENING

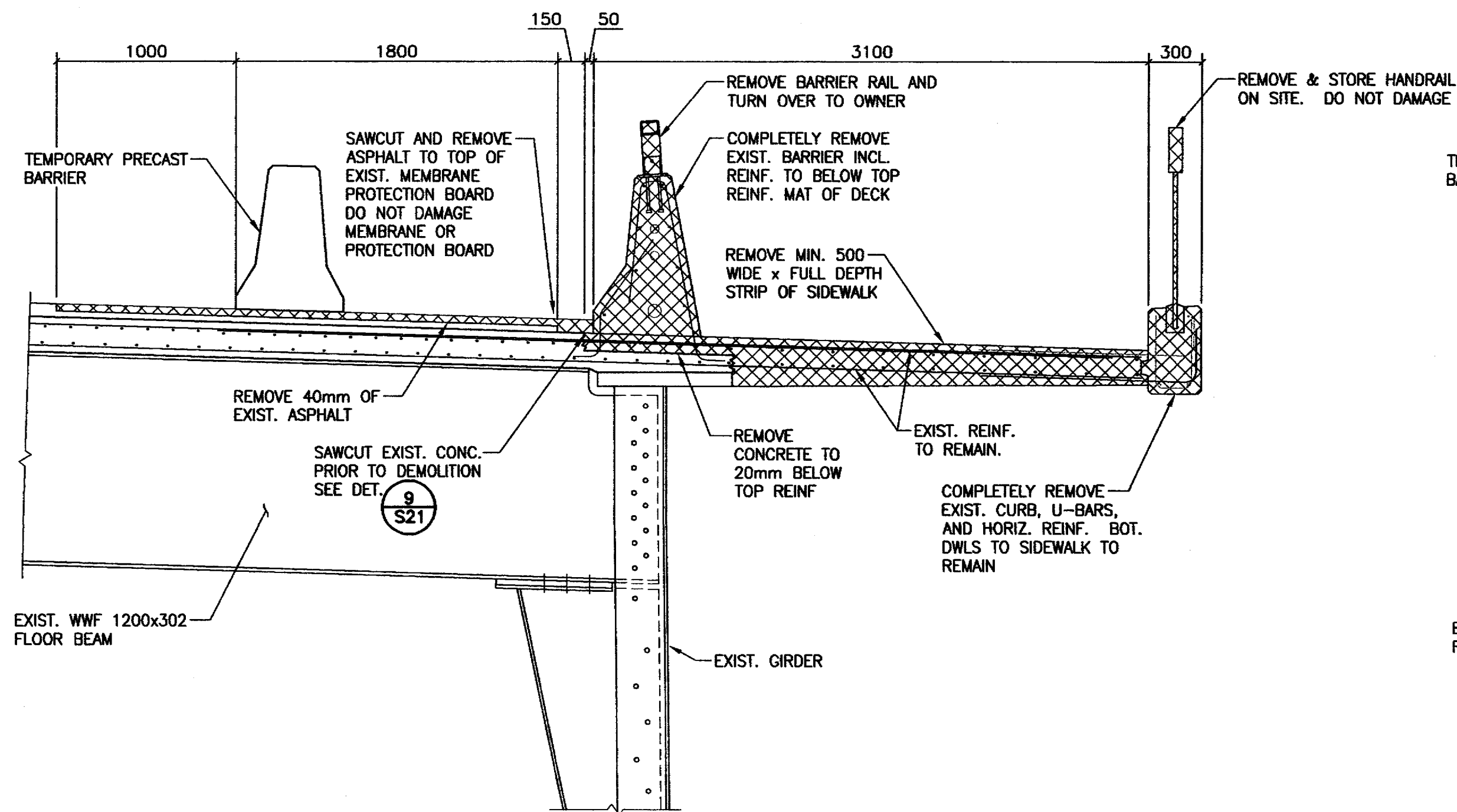
NEW EXPANSION JOINTS
 PLANS AND ELEVATIONS

GENERAL MANAGER	P. ENG
DATE	DATE
SCALE: HOR. AS NOTED	SHEET NO. S14
VERT. AS NOTED	PLAN NO. 104-1002-014-001

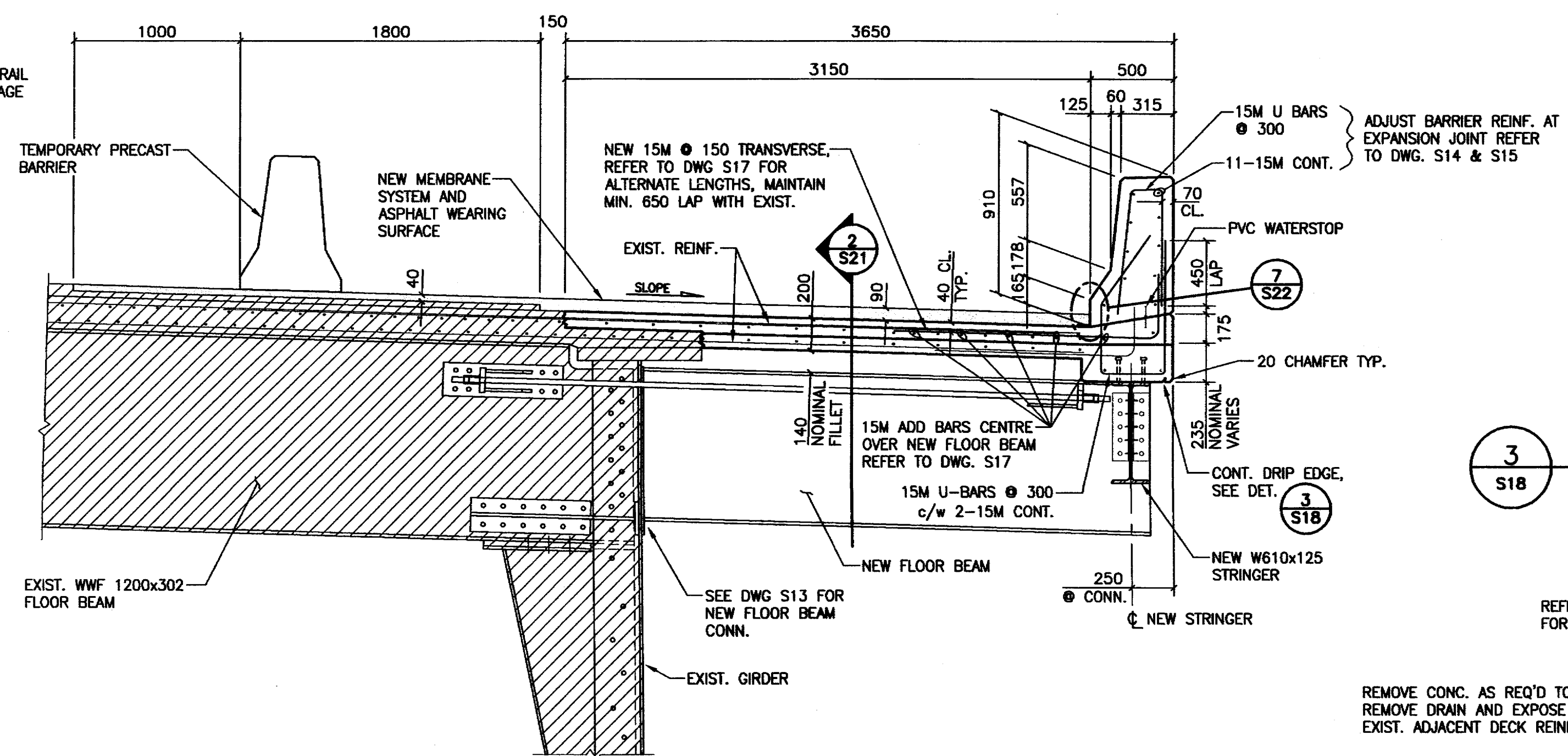




REVISIONS NO. REVISIONS DATE BY		PROFESSIONAL ENGINEER J. A. ZACARUK MEMBER 6467 SASKATCHEWAN		Association of Professional Engineers & Geoscientists of Saskatchewan CERTIFICATE OF AUTHORIZATION STANTEC CONSULTING LTD. Number 0969 Permission to Consult held by: Discipline SK Reg. No. Signature STRUCT 6467		MUNICIPAL ENGINEERING ENGINEER ENGINEER DRAWN BY KMF DATE 06-01-20 CHECKED BY DATE		PUBLIC WORKS ENGINEER ENGINEER DRAWN BY DATE CHECKED BY DATE		City of Saskatoon Infrastructure Services Department		CIRCLE DRIVE BRIDGE WIDENING DECK ELEVATIONS GENERAL MANAGER P. ENG DATE SCALES: HOR. AS NOTED SHEET NO. S16 VERT. AS NOTED PLAN NO. 104-1002-016-001	
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EXISTING

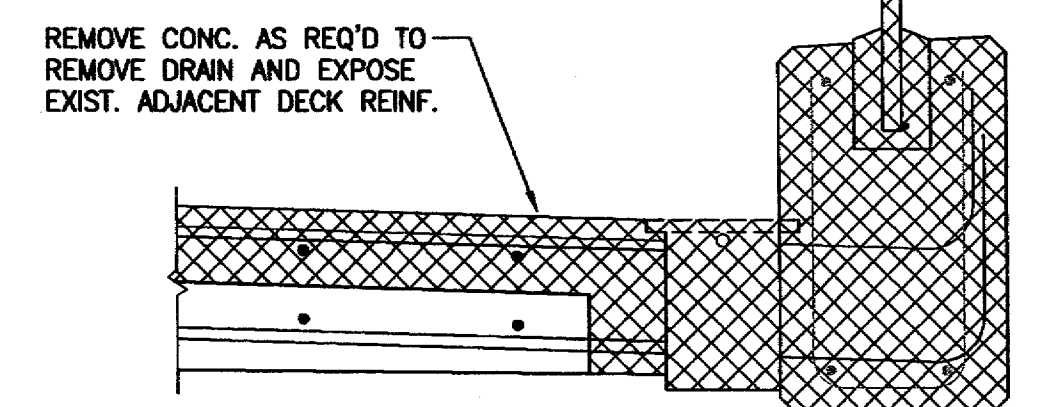


PROPOSED

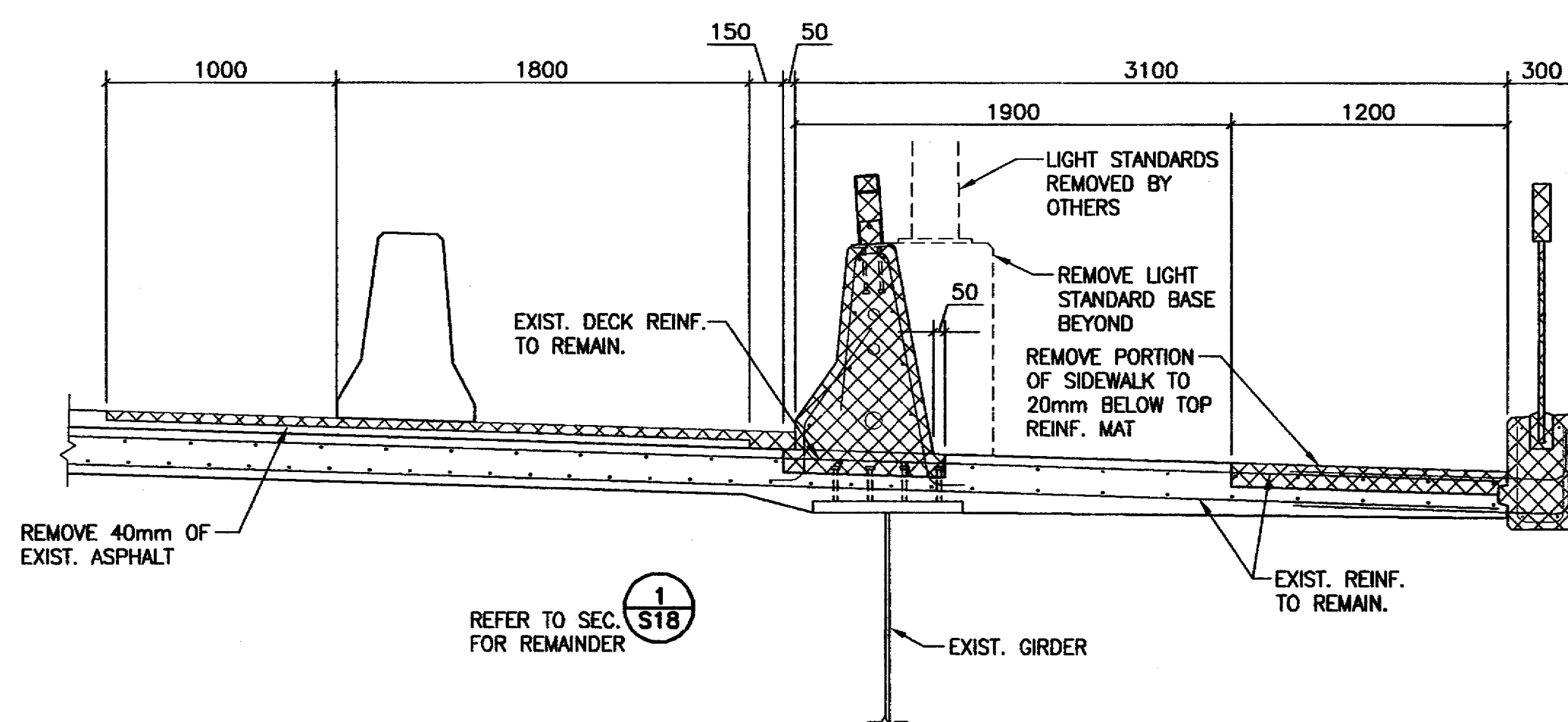
1 WESTBOUND BRIDGE SECTION AT FLOOR BEAMS
S3,S17 1:25

3 TYP. DRIP EDGE DETAIL
S18 1:5

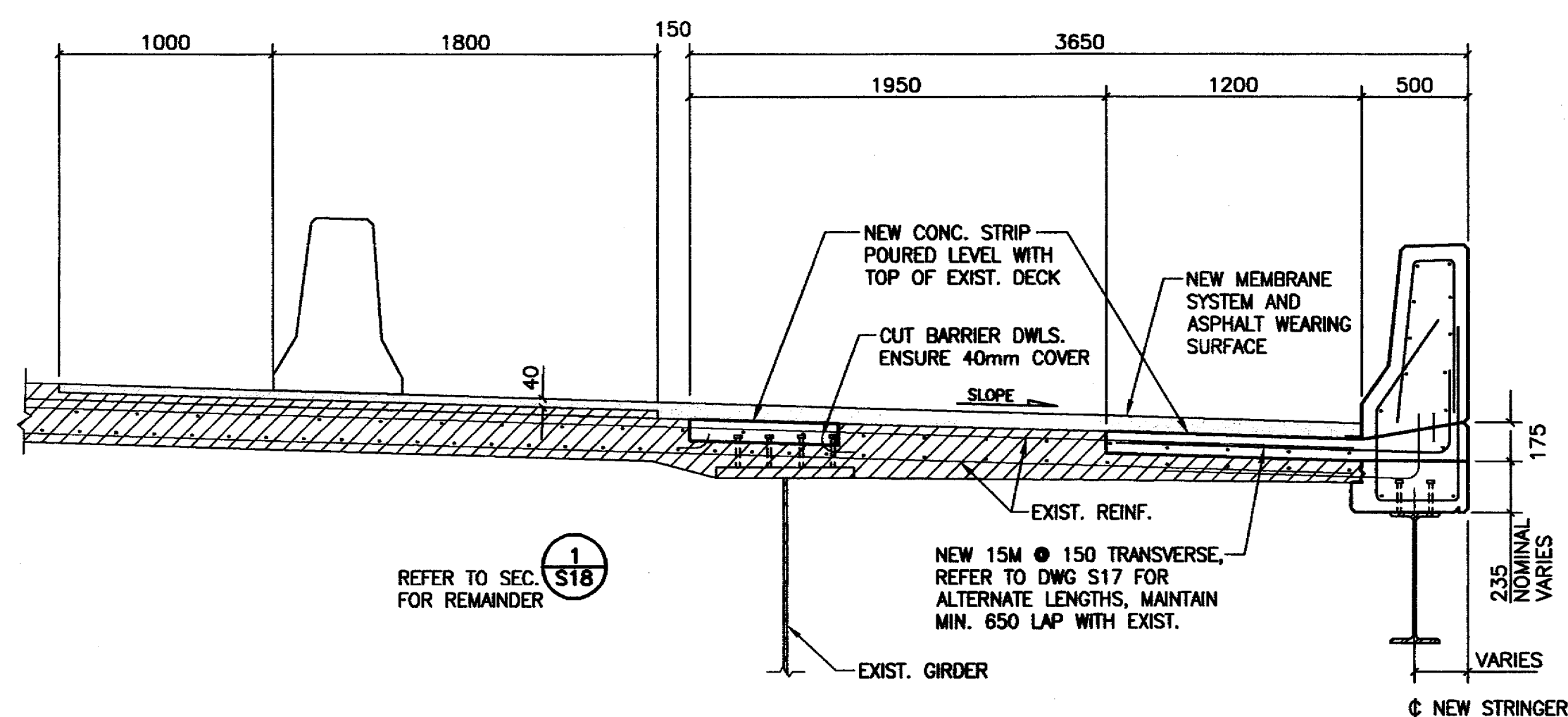
REFER TO SEC. 1 S18 FOR REMAINDER



4 TYP. SIDEWALK DRAIN REMOVAL
S3 N.T.S.

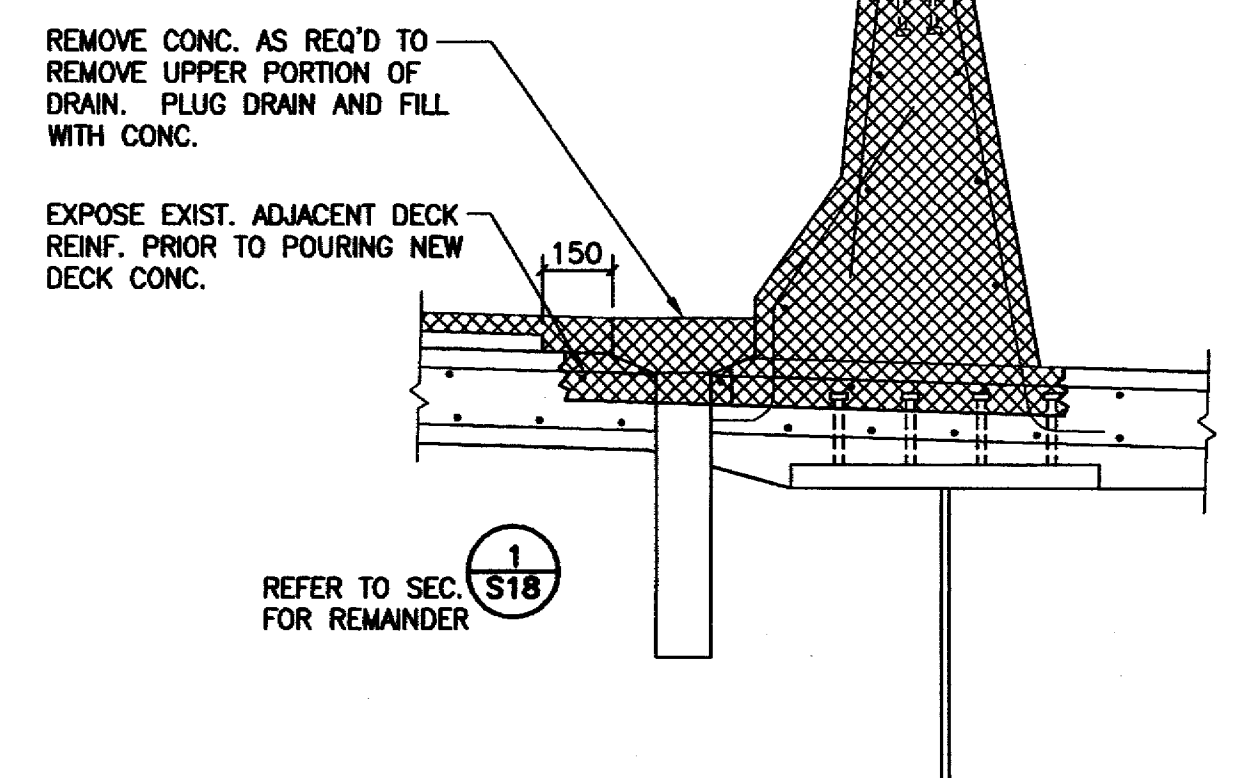


EXISTING



PROPOSED

2 WESTBOUND BRIDGE SECTION AT DECK
S3,S17 1:25

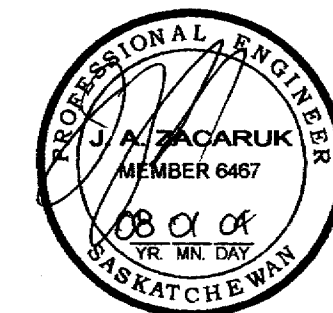


5 TYP. DECK DRAIN REMOVAL
S3 N.T.S.

NOTES:
1. LEGEND:
- DEMOLITION SHOWN THUS.
- EXISTING SHOWN THUS

RECORD DRAWING

NO.	REVISIONS	DATE	BY
5	PROJECT RECORD DRAWINGS	08-01-04	RKC
4	ISSUED FOR TENDER	06-03-10	RKC
3	ISSUED FOR FINAL REVIEW	06-03-02	RKC
2	ISSUED FOR CLIENT REVIEW	06-01-23	RKC
1	ISSUED FOR CLIENT REVIEW	06-01-17	RKC



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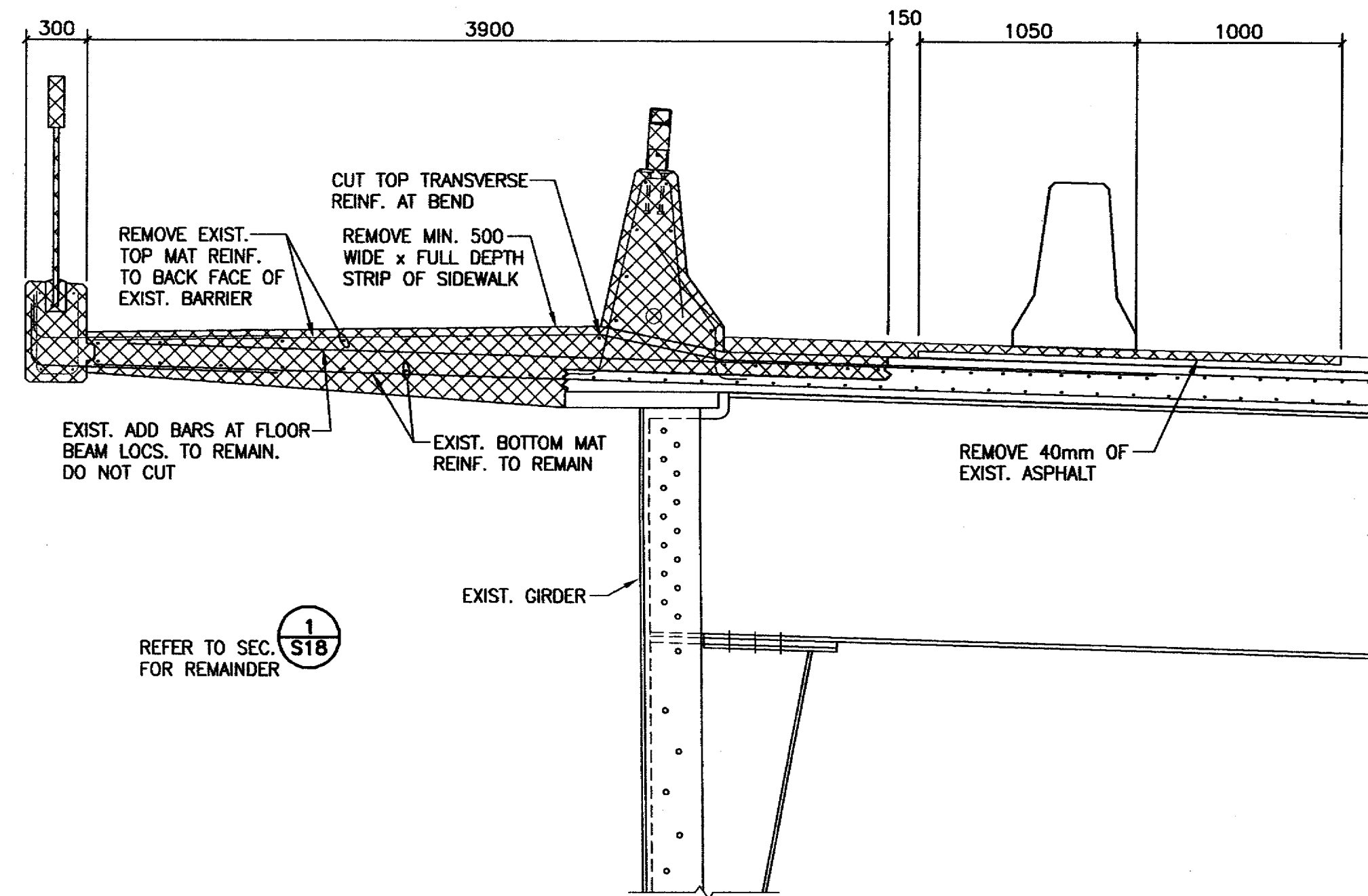
MUNICIPAL ENGINEERING	PUBLIC WORKS
ENGINEER	ENGINEER
ENGINEER	ENGINEER
DRAWN BY RKC	DRAWN BY
DATE 06-01-17	DATE
CHECKED BY	CHECKED BY
DATE	DATE

City of Saskatoon
Infrastructure Services Department

CIRCLE DRIVE BRIDGE WIDENING

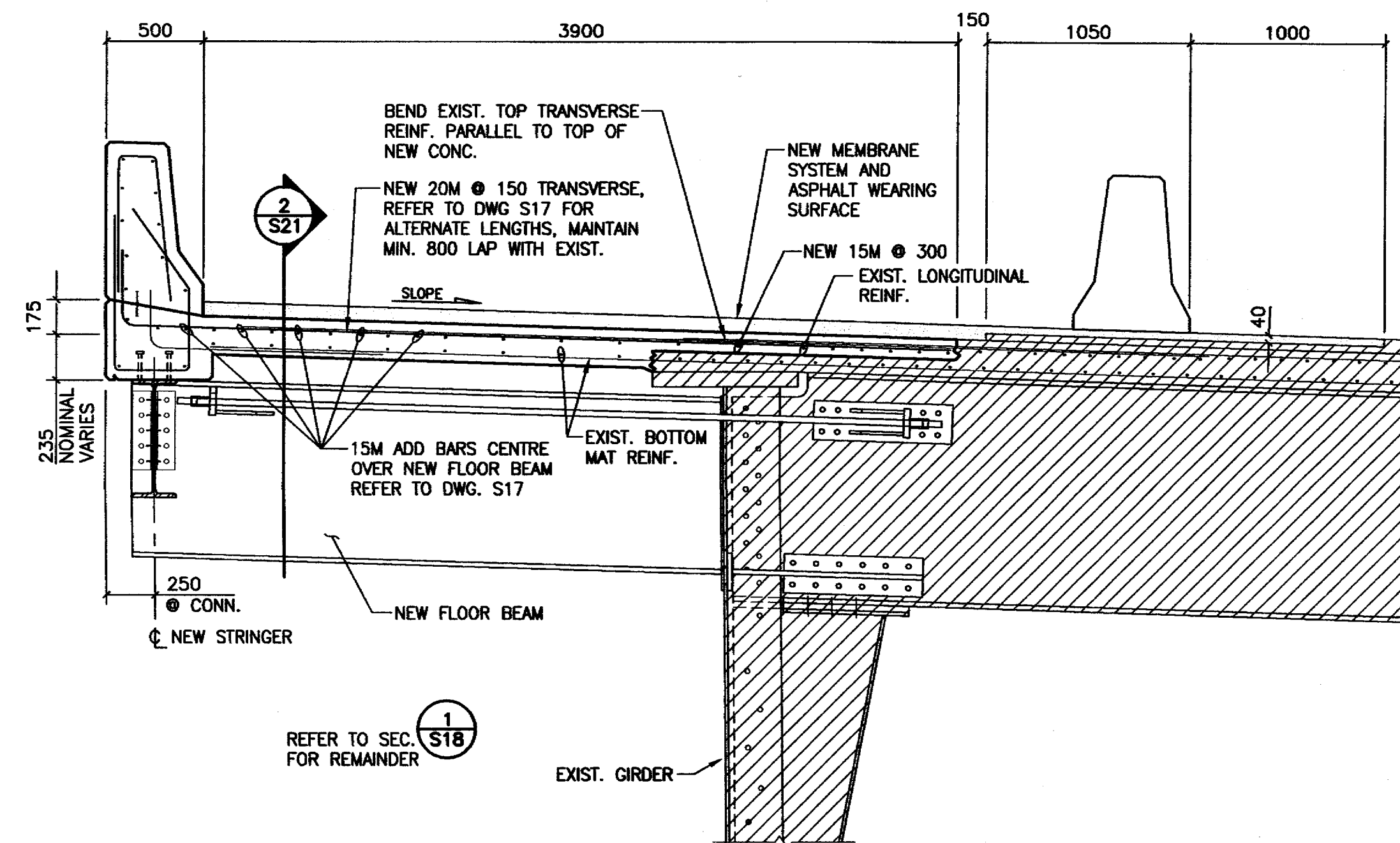
WESTBOUND DECK REINFORCING SECTIONS & DETAILS

GENERAL MANAGER	P. ENG
DATE	
SCALE: HOR. AS NOTED	SHEET NO. S18
VERT. AS NOTED	
PLAN NO.	104-1002-018r001

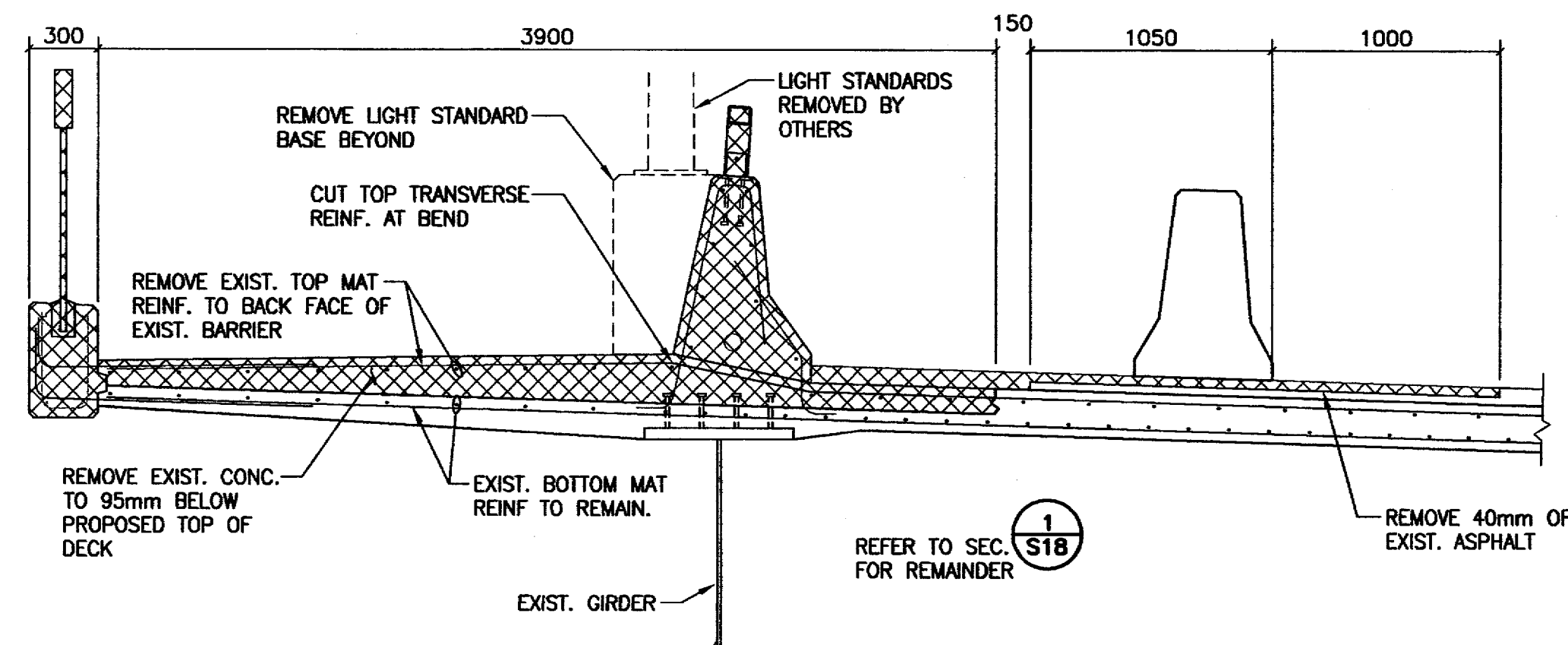


EXISTING

1 EASTBOUND BRIDGE SECTION AT FLOOR BEAMS
S3,S17 1:25

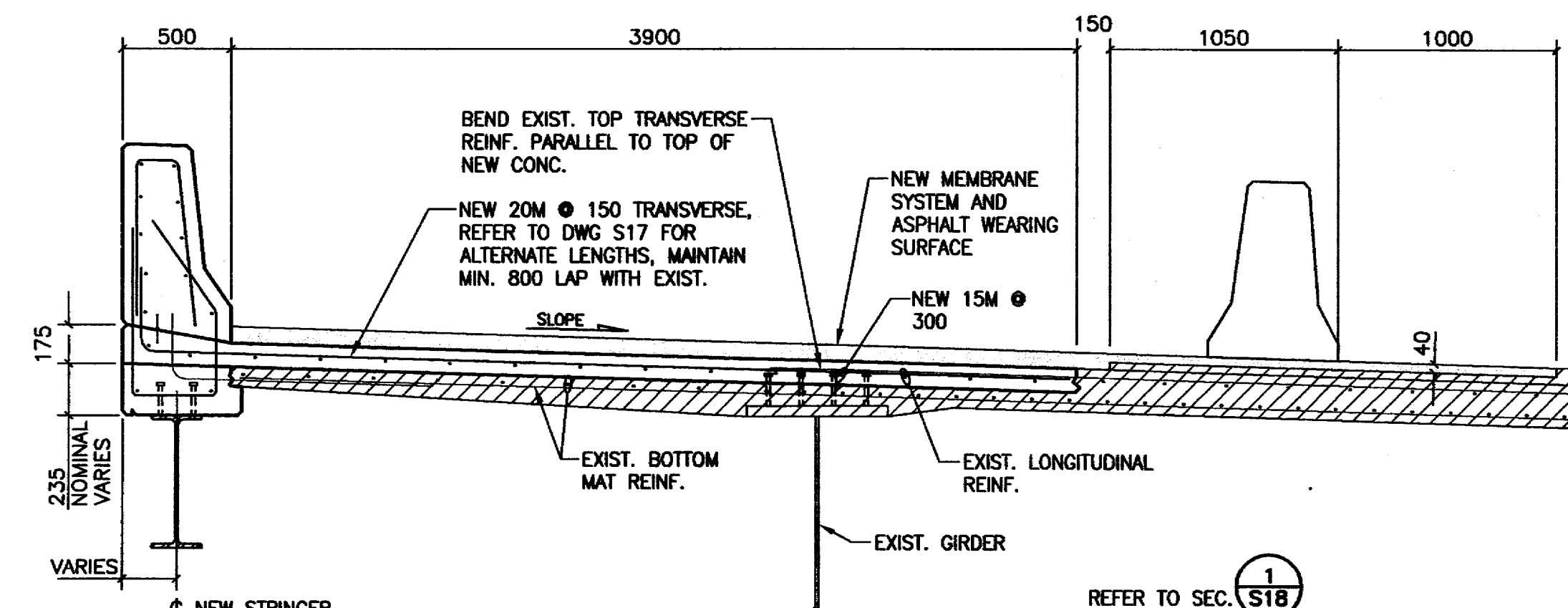


PROPOSED



EXISTING

2 EASTBOUND BRIDGE SECTION AT DECK
S3,S17 1:25

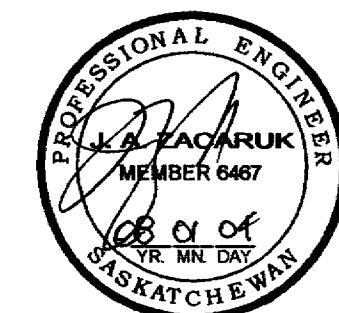


PROPOSED

- NOTES:**
1. LEGEND:
- DEMOLITION SHOWN THUS.
 - EXISTING SHOWN THUS

RECORD DRAWING

NO.	REVISIONS	DATE	BY
5	PROJECT RECORD DRAWINGS	08-01-04	RKC
4	ISSUED FOR TENDER	06-03-10	RKC
3	ISSUED FOR FINAL REVIEW	06-01-02	RKC
2	ISSUED FOR CLIENT REVIEW	06-01-23	RKC
1	ISSUED FOR CLIENT REVIEW	06-01-17	RKC



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of Saskatchewan
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STANTEC CONSULTING LTD.
Number C969
Permission to Consult held by:
Discipline Sk. Reg. No. Signature
STRUCT 6467

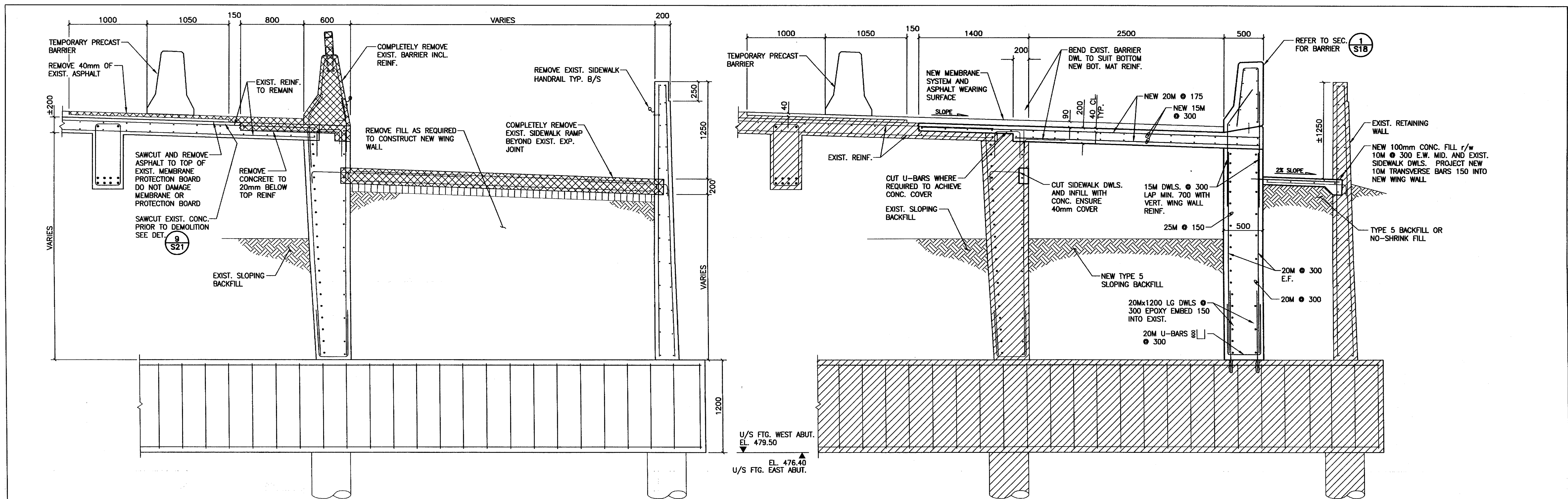
MUNICIPAL ENGINEERING		PUBLIC WORKS	
ENGINEER		ENGINEER	
ENGINEER		ENGINEER	
DRAWN BY RKC	DATE 06-01-17	DRAWN BY	DATE
CHECKED BY	DATE	CHECKED BY	DATE

City of Saskatoon
Infrastructure Services Department

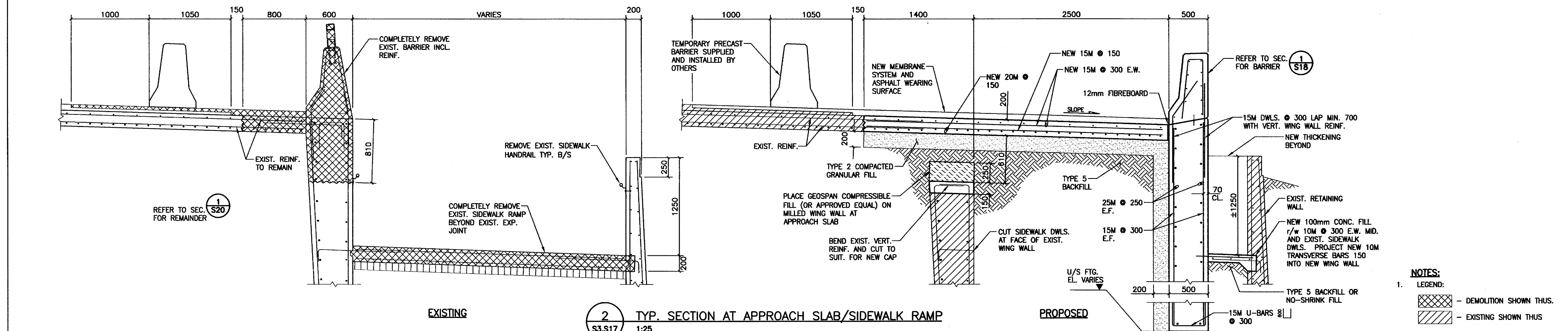
CIRCLE DRIVE BRIDGE WIDENING

EASTBOUND DECK REINFORCING
SECTIONS & DETAILS

GENERAL MANAGER	P. ENG
DATE	
SCALES:	
HOR. AS NOTED	
VERT. AS NOTED	
PLAN NO.	104-1002-019-001
SHEET NO.	S19



1 TYP. SECTION AT ROOF SLAB/SIDEWALK RAMP
S3,S17 1:25

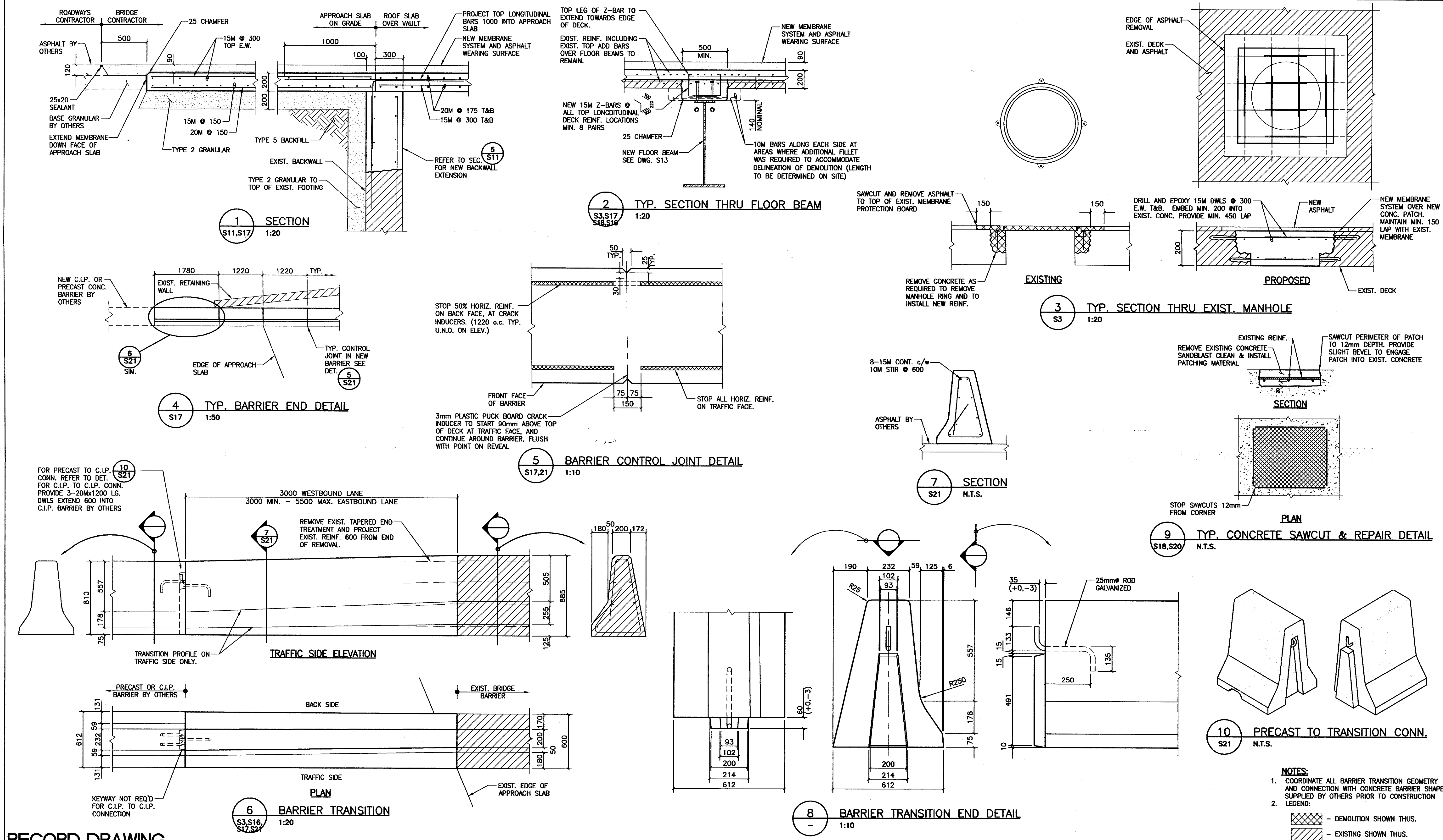


2 TYP. SECTION AT APPROACH SLAB/SIDEWALK RAMP
S3,S17 1:25

NOTES:
1. LEGEND:
- DEMOLITION SHOWN THUS.
- EXISTING SHOWN THUS

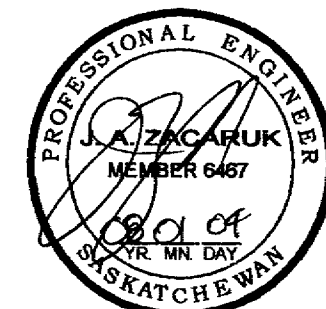
RECORD DRAWING

5 PROJECT RECORD DRAWINGS 08-01-04 RKC 4 ISSUED FOR TENDER 08-03-10 RKC 3 ISSUED FOR FINAL REVIEW 08-03-02 RKC 2 ISSUED FOR CLIENT REVIEW 08-01-23 RKC 1 ISSUED FOR CLIENT REVIEW 08-01-17 RKC		PROFESSIONAL ENGINEER J. A. ZACHARUK MEMBER 6467 08-01-04 SASKATCHEWAN	Association of Professional Engineers & Geoscientists of Saskatchewan CERTIFICATE OF AUTHORIZATION STANTEC CONSULTING LTD. Number C989 Permission to Consult held by: Discipline Sk. Reg. No. Signature STRUCT 6467	MUNICIPAL ENGINEERING ENGINEER ENGINEER DRAWN BY RKC DATE 06-01-20 CHECKED BY DATE	PUBLIC WORKS ENGINEER ENGINEER DRAWN BY DATE CHECKED BY DATE	City of Saskatoon Infrastructure Services Department	CIRCLE DRIVE BRIDGE WIDENING DECK REINFORCING SECTIONS & DETAILS	GENERAL MANAGER P. ENG DATE SHEET NO. S20 SCALES: HOR. AS NOTED VERT. AS NOTED PLAN NO. 104-1002-020-001
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RECORD DRAWING

NO.	REVISIONS	DATE	BY
3	PROJECT RECORD DRAWINGS	08-01-04	RKC
2	ISSUED FOR TENDER	08-03-10	RKC
1	ISSUED FOR FINAL REVIEW	08-03-02	RKC



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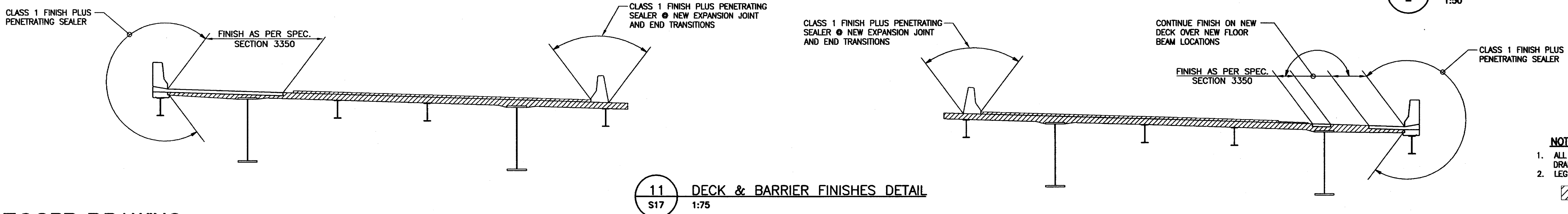
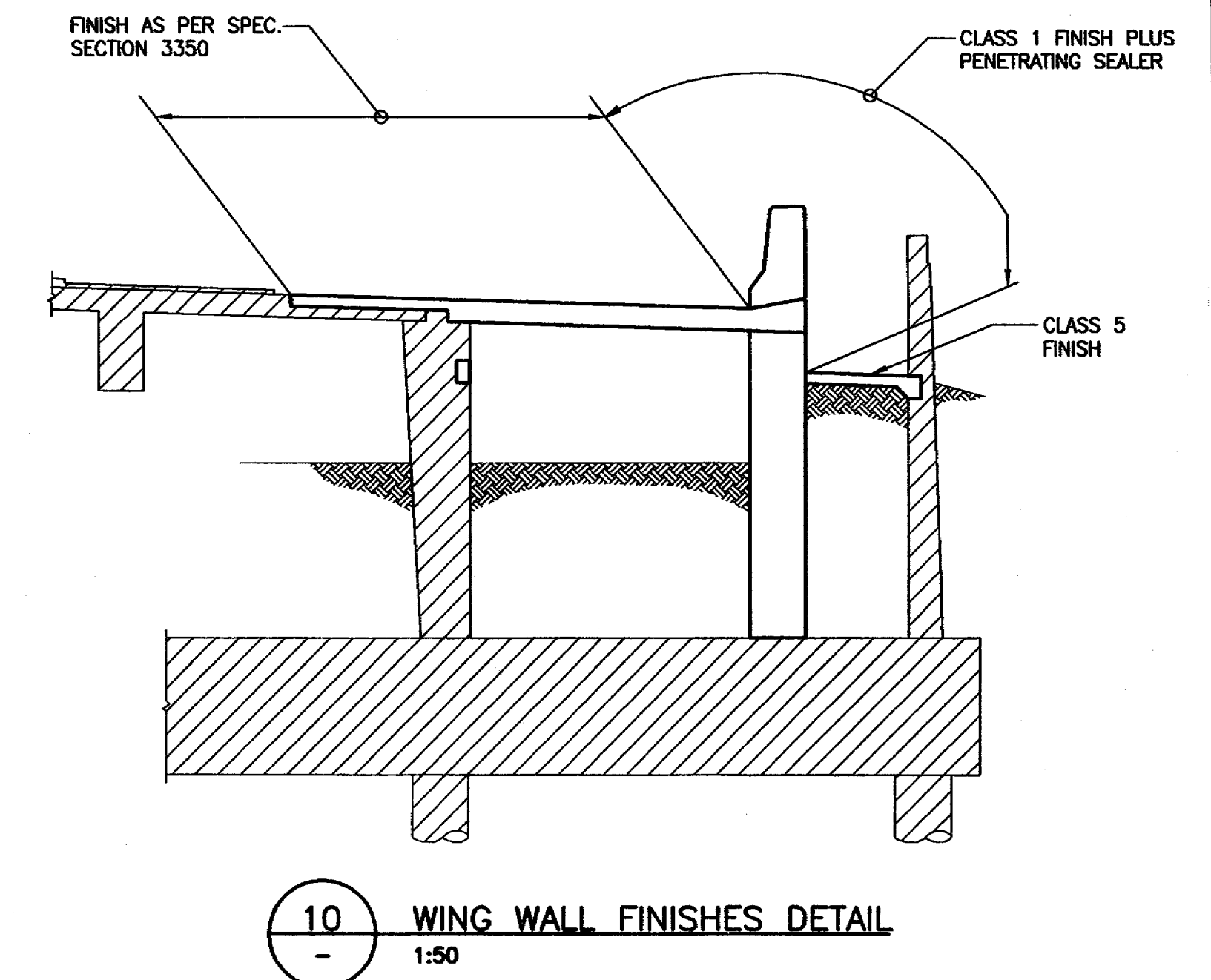
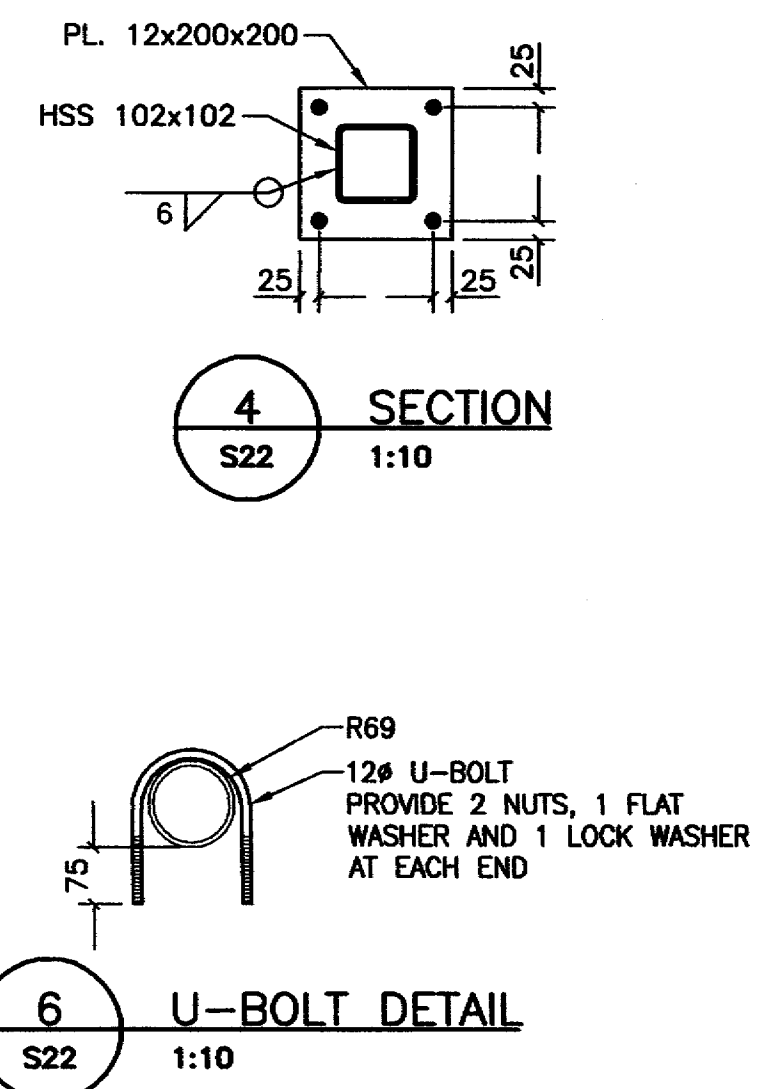
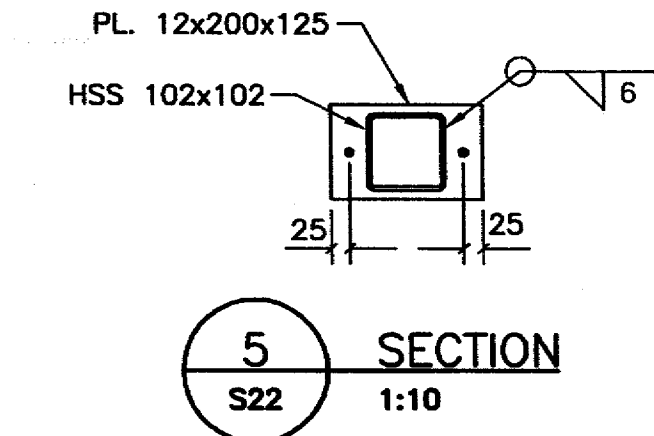
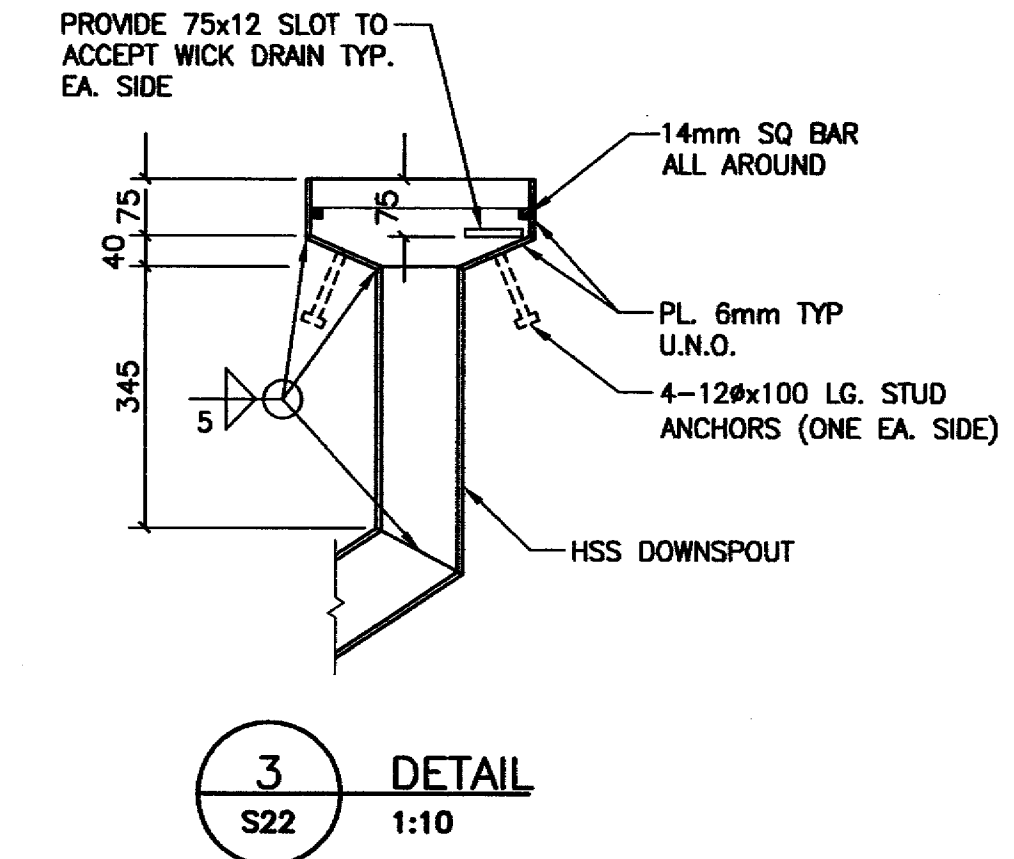
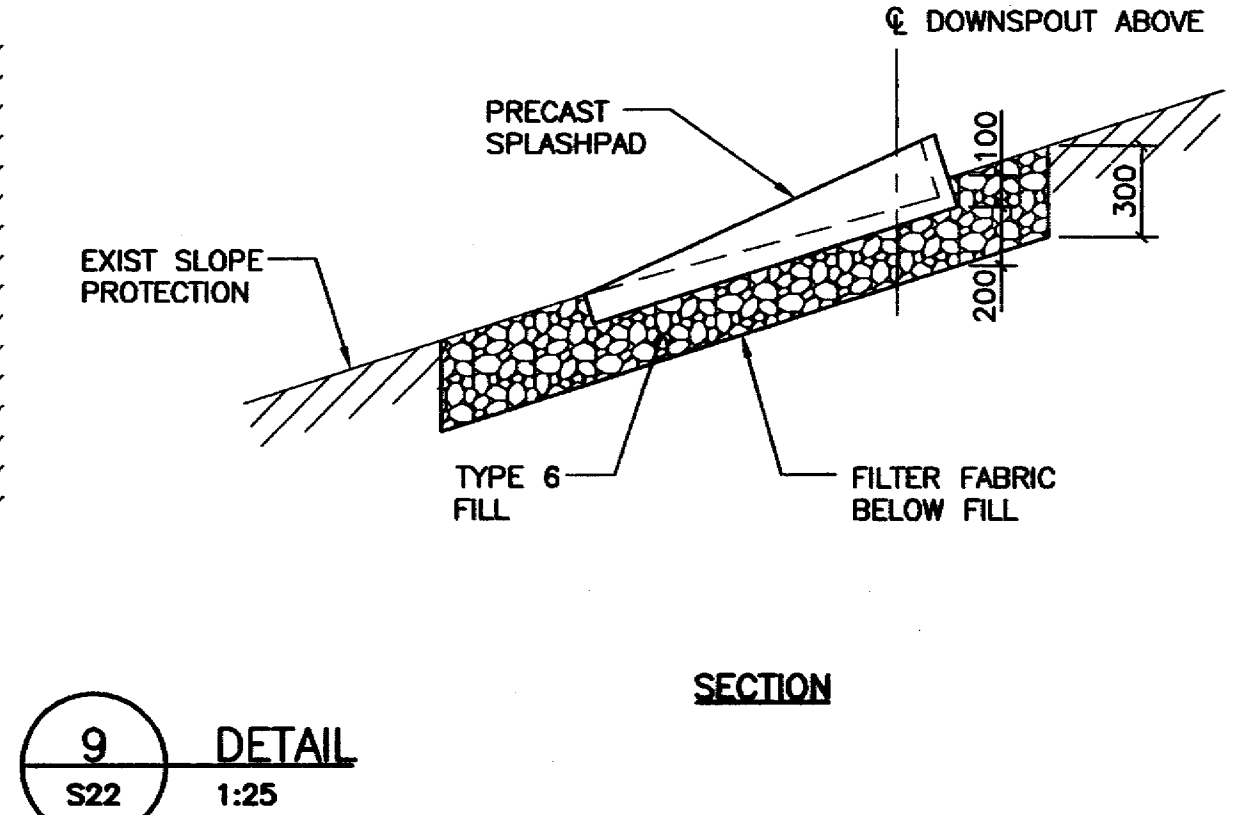
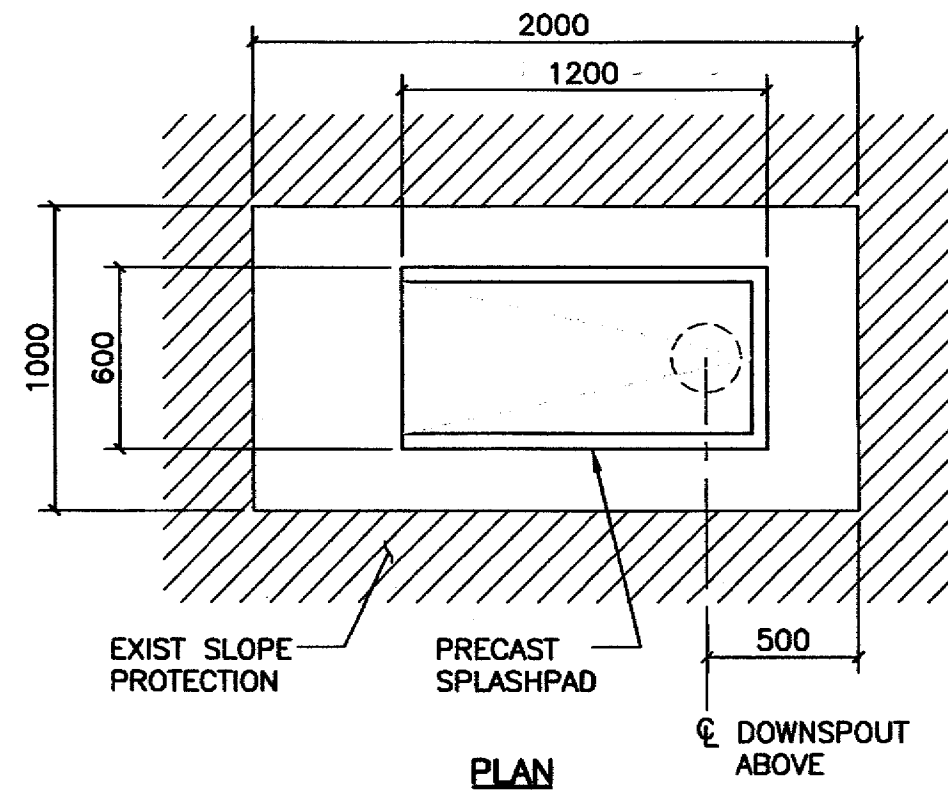
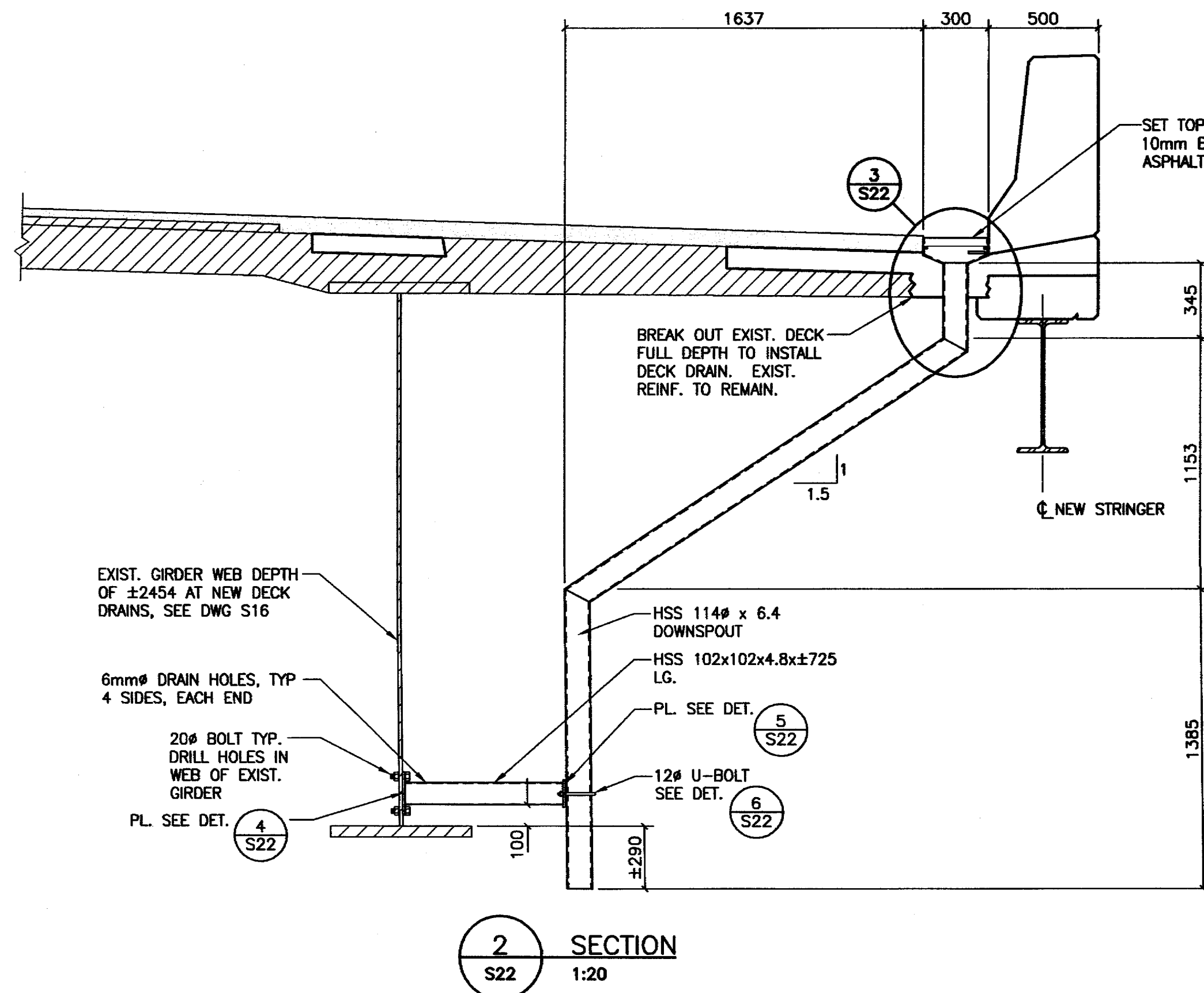
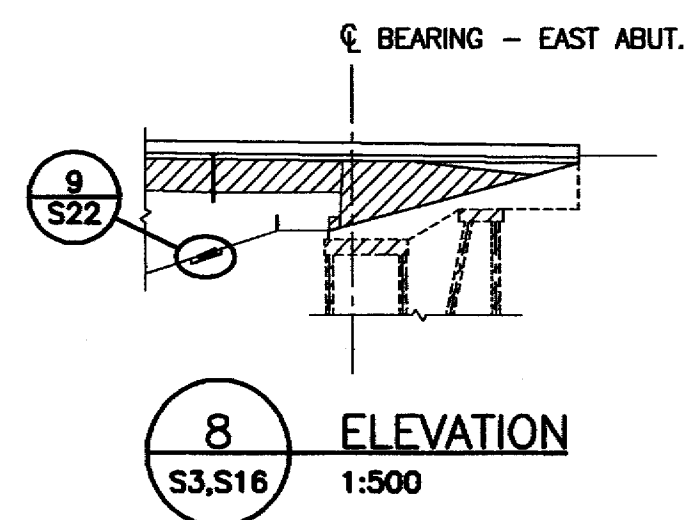
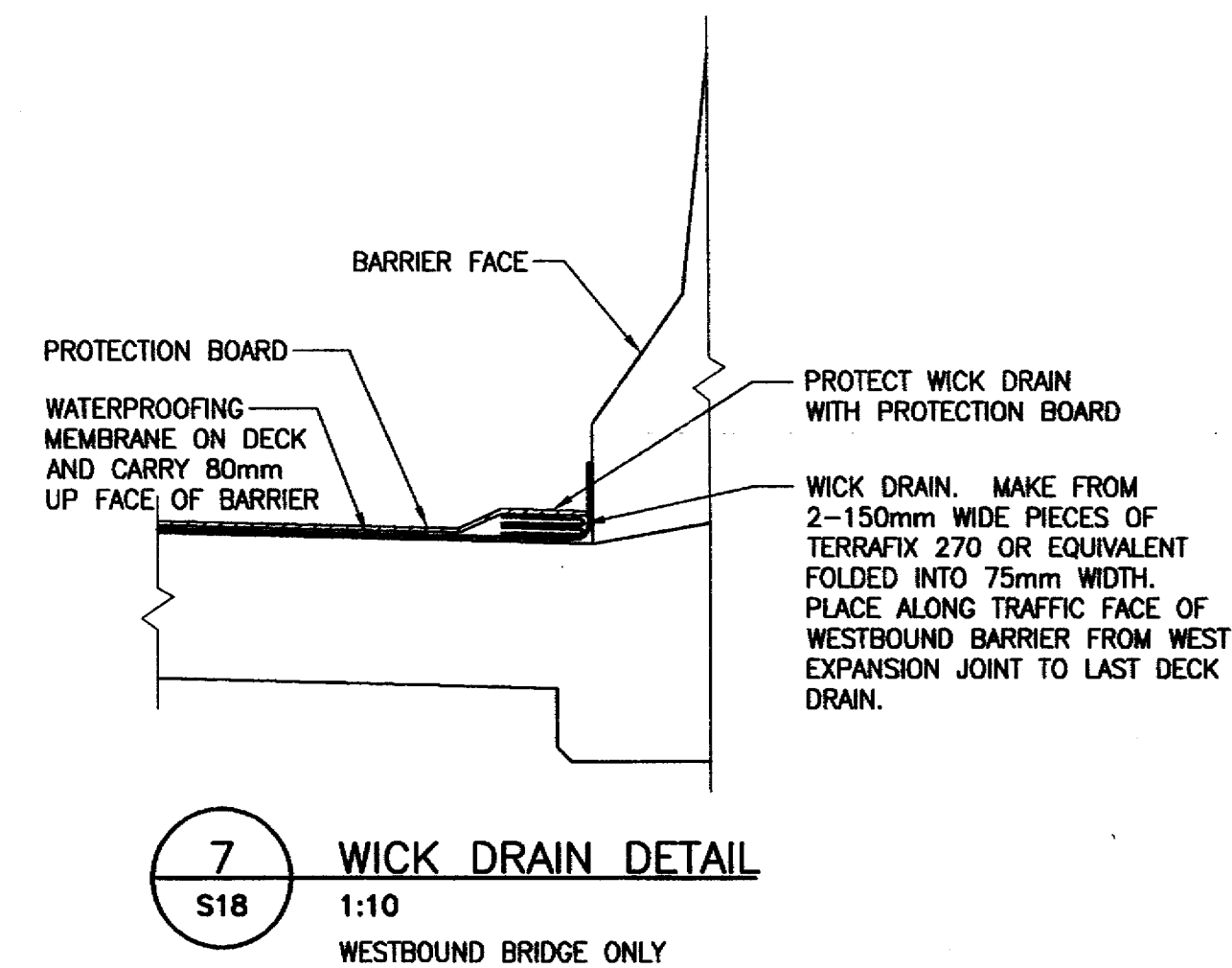
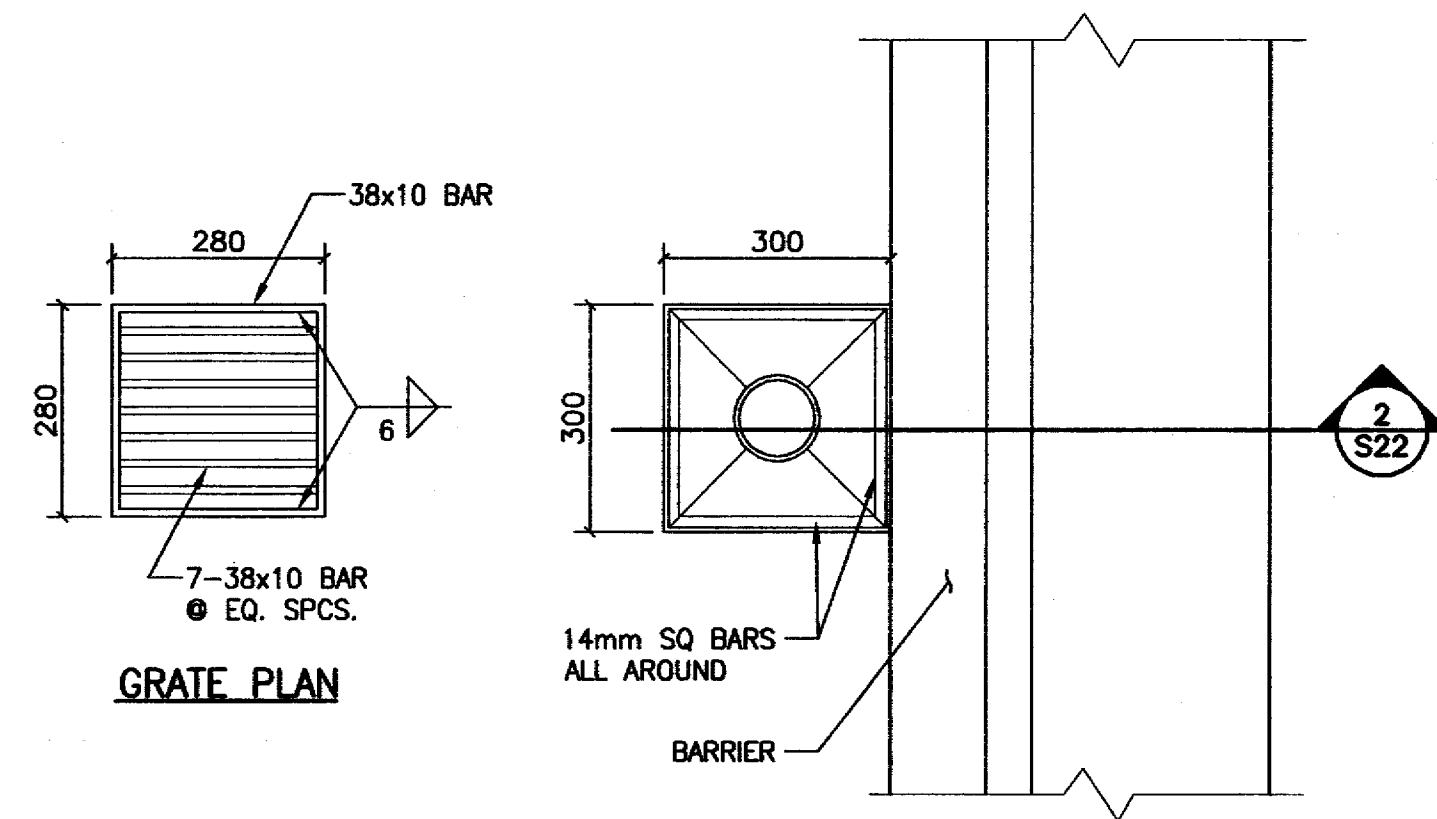
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ENGINEER		ENGINEER	
ENGINEER		ENGINEER	
DRAWN BY RKC		DRAWN BY	
DATE 06-01-25		DATE	
CHECKED BY		CHECKED BY	
DATE		DATE	

City of Saskatoon
 Infrastructure Services Department

CIRCLE DRIVE BRIDGE WIDENING

DECK & BARRIER SECTIONS & DETAILS

GENERAL MANAGER P. ENG	
DATE	SHEET NO.
SCALE: AS NOTED	S21
VERT. AS NOTED	
PLAN NO. 104-1002-021-001	



NOTES:

- ALL MISC. METAL PERTAINING TO DECK DRAIN TO BE GALVANIZED TO G164
- LEGEND:

— EXISTING SHOWN THUS.

RECORD DRAWING

NO.	REVISIONS	DATE	BY
3	PROJECT RECORD DRAWINGS	08-01-04	RKC
2	ISSUED FOR TENDER	06-03-10	RKC
1	ISSUED FOR FINAL REVIEW	06-03-02	RKC

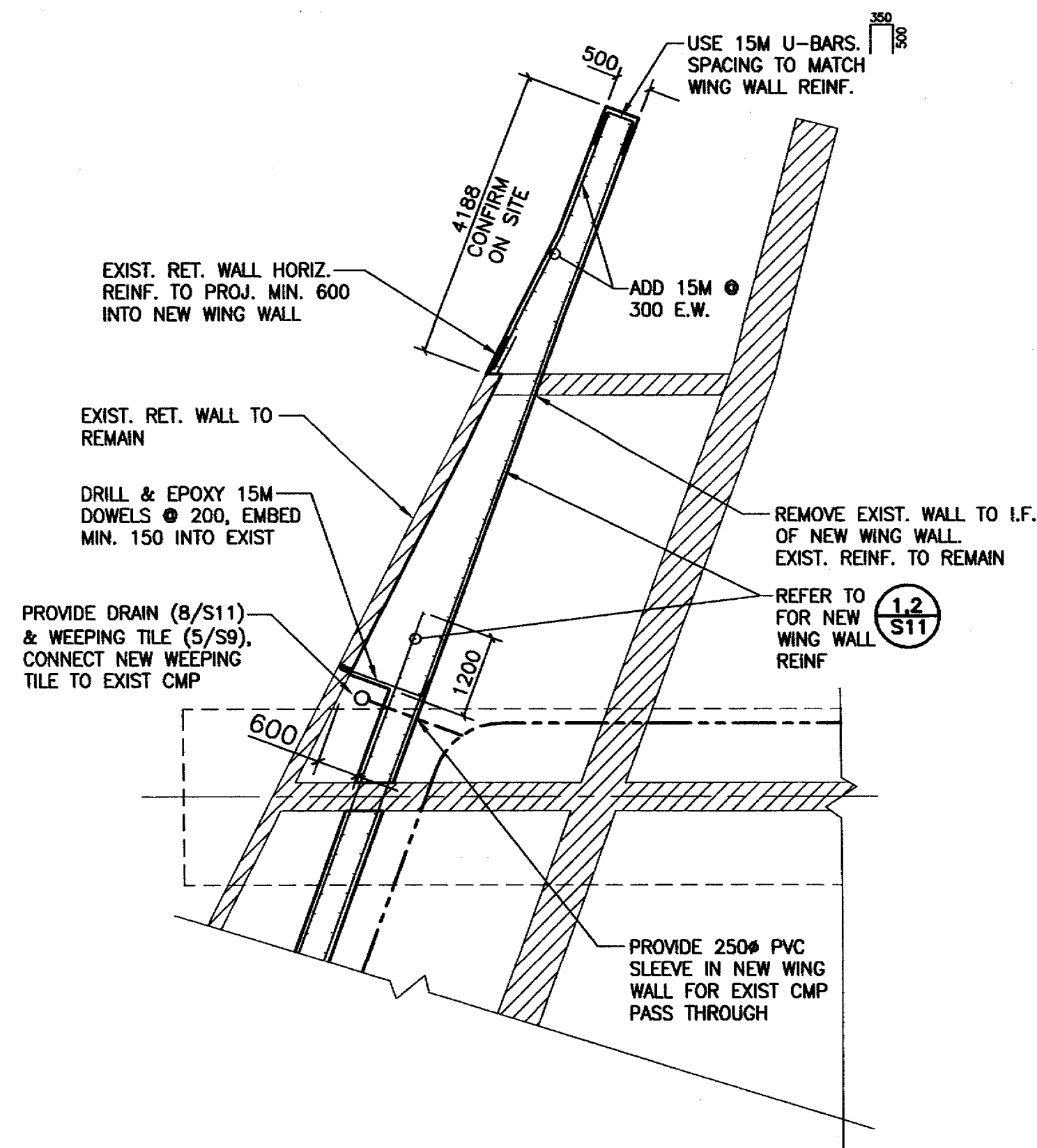


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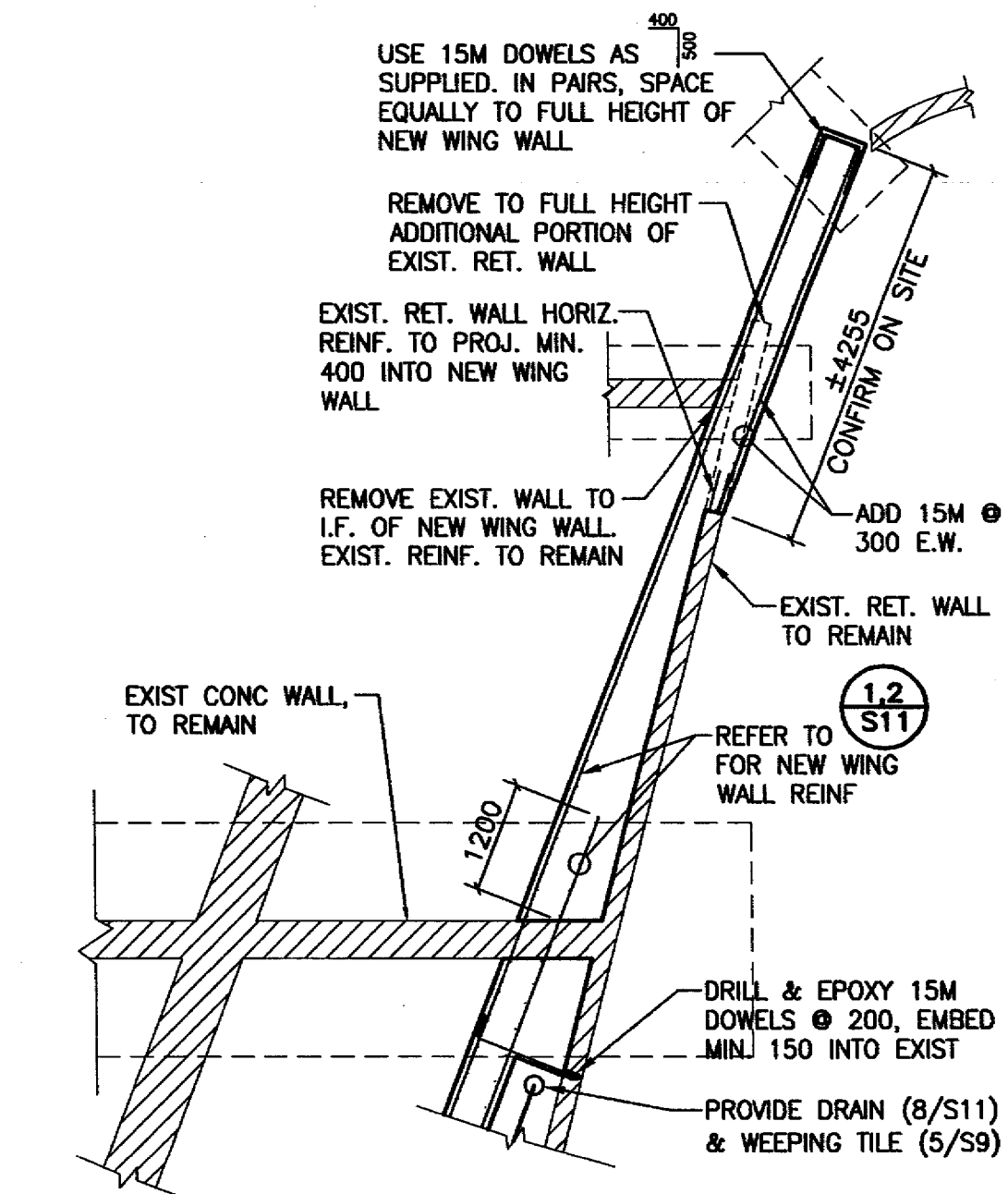
MUNICIPAL ENGINEERING	PUBLIC WORKS
ENGINEER	ENGINEER
ENGINEER	ENGINEER
ENGINEER	ENGINEER
DRAWN BY RKC	DRAWN BY
DATE 06-02-09	DATE
CHECKED BY	CHECKED BY
DATE	DATE



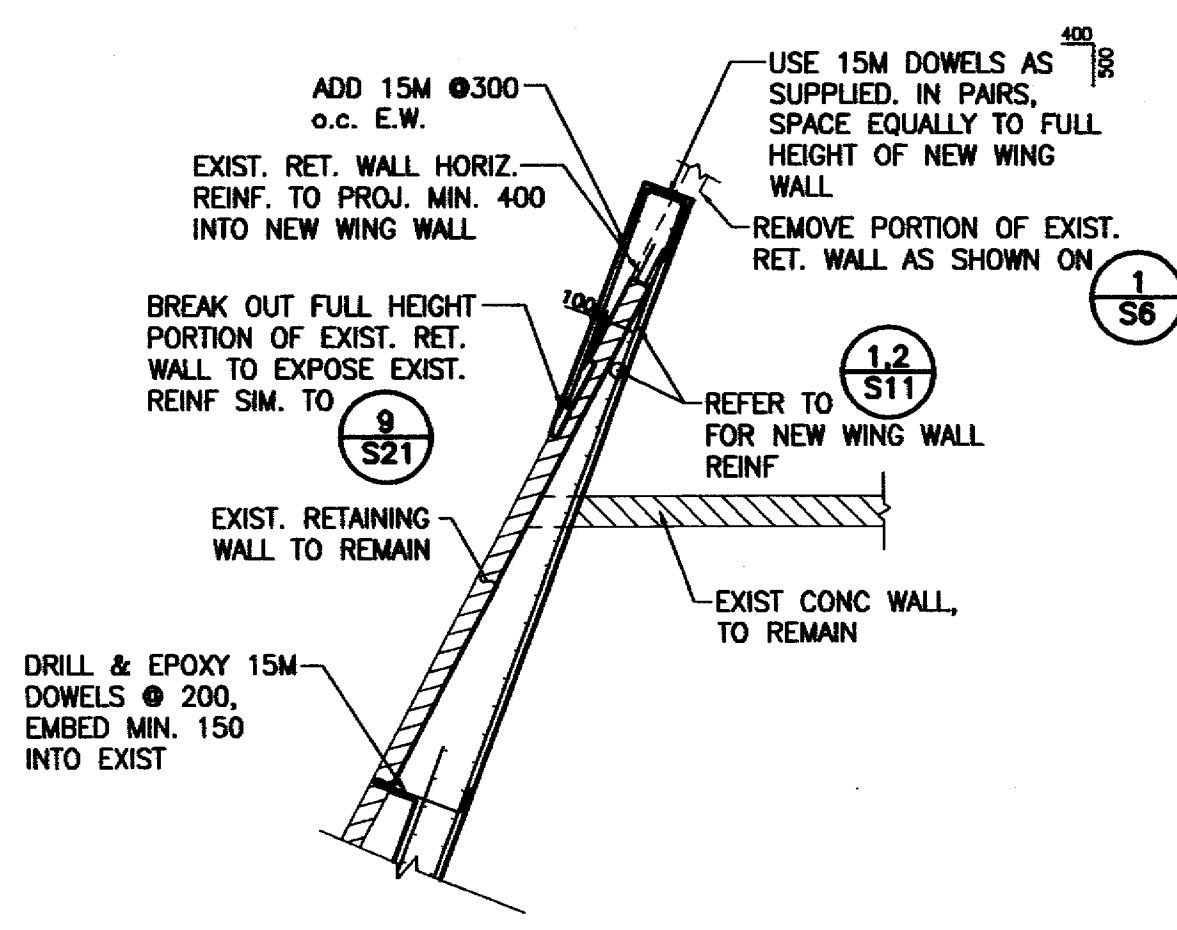
CIRCLE DRIVE BRIDGE WIDENING	
MISCELLANEOUS SECTIONS & DETAILS	
GENERAL MANAGER	P. ENG
DATE	
SCALE: AS NOTED	SHEET NO. S22
VERT. AS NOTED	
PLAN NO.	104-1002-082-001



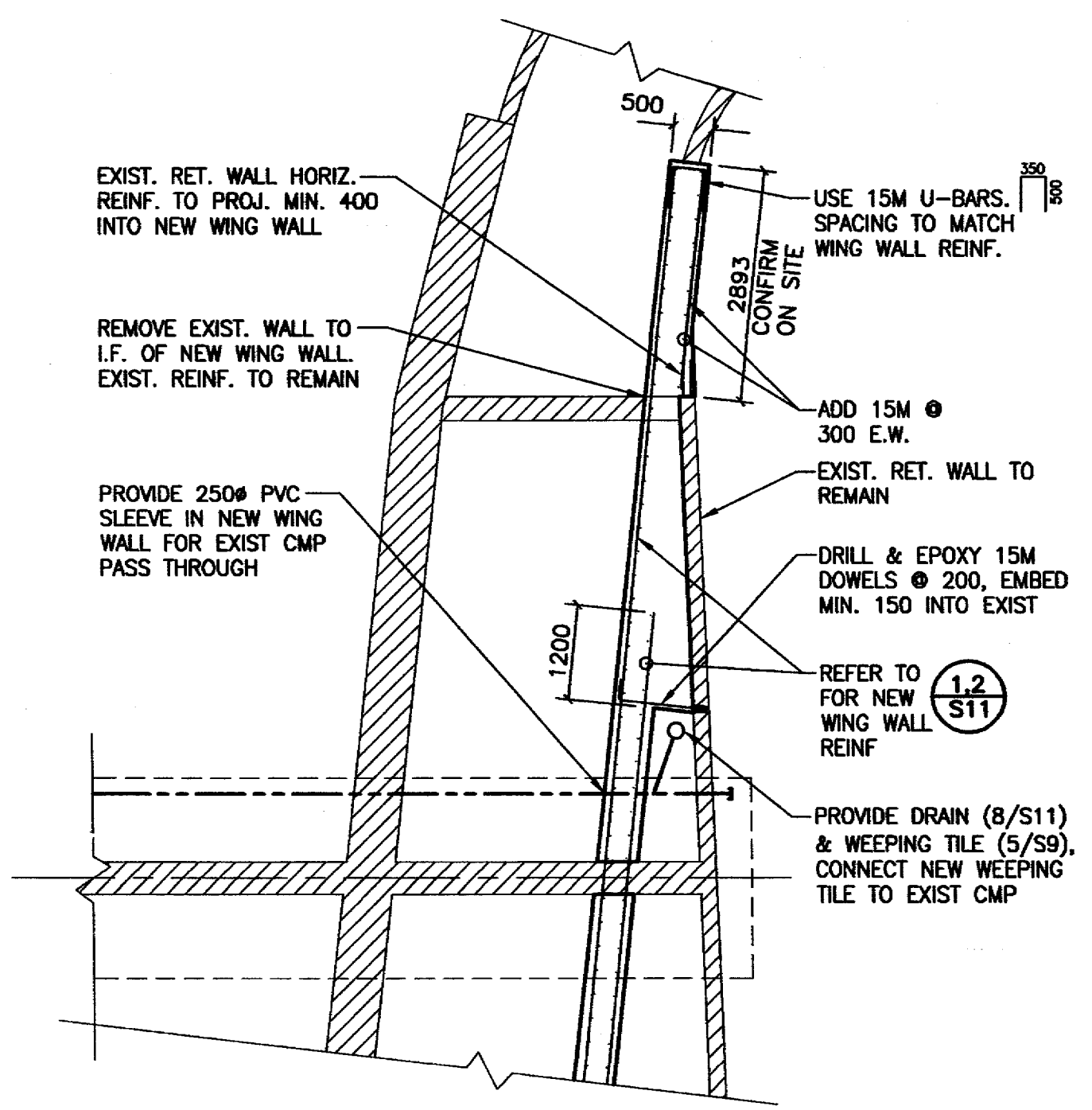
1
-
1:75
SOUTHWEST WING WALL
END TREATMENT DETAIL



2
-
1:75
NORTHWEST WING WALL
END TREATMENT DETAIL



3
-
1:75
NORTHEAST WING WALL
END TREATMENT DETAIL



4
-
1:75
SOUTHEAST WING WALL
END TREATMENT DETAIL

NOTES:
1. LEGEND:
- EXISTING SHOWN THUS.

RECORD DRAWING

1 PROJECT RECORD DRAWINGS NO. REVISIONS DATE BY		08-01-04 DATE BY		Association of Professional Engineers & Geoscientists of Saskatchewan CERTIFICATE OF AUTHORIZATION STANTEC CONSULTING LTD. Number C969 Permission to Consult held by: Discipline Sk. Reg. No. Signature STRUCT 6467	MUNICIPAL ENGINEERING ENGINEER ENGINEER DRAWN BY RKC DATE 07-11-09 CHECKED BY DATE	PUBLIC WORKS ENGINEER ENGINEER DRAWN BY DATE CHECKED BY DATE		CIRCLE DRIVE BRIDGE WIDENING WING WALL END TREATMENT DETAILS	GENERAL MANAGER P. ENG DATE SCALES : HOR. AS NOTED VERT. AS NOTED SHEET NO. S24 PLAN NO. 104-1002-024r001
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