Prepared by the
Utility Agreements and Permits Unit
(Receivable)
($44,103.59)

S.P. 6219-07 (T.H. 156)
Location: from Annapolis Street to US 52 in the City of Saint Paul
Utility Owner: City of Saint Paul
MnDOT Agreement Number 1046020

AGENCY RELOCATION AGREEMENT

This Agreement Number 1046020 (Agreement) is between the State of Minnesota (State), acting through its Commissioner of Transportation and City of Saint Paul, including its agents, contractors, and subcontractors (Utility Owner). This Agreement outlines the separate responsibilities of the State and the Utility Owner as part of a construction project.

RECITALS

The State plans to let a contract to construct State Project Number 6219-07 (Project) on Trunk Highway Number 156. The Project is located from Annapolis Street to US 52 in the City of Saint Paul.

The Utility Owner owns and operates sanitary sewers, storm sewers and street lighting, their fixtures, and related equipment (Facilities) that are located on property where the State will construct the Project.

The Project will require the relocation and adjustment of the Utility Owner's Facilities. The parties agree that, if the Utility Owner relocated the Facilities or let a separate contract to relocate them that work would interfere with the Project. The Utility Owner has requested that the State perform the work as part of the Project. Including the Utility Owner's relocation work in the State's Construction contract may eliminate duplication of services, facilitate activity coordination, simplify supervision, and expedite Project construction, and the State agrees to do so.

Pursuant to Minnesota Statutes, section 161.46, subdivision 5, the Utility Owner appoints the State as its agent to design and construct the adjustment work as part of the Project and the State may adjust the Facilities as part of the Project on the trunk highway system.

State law requires a written agreement between the State and the Utility Owner that describes their separate responsibilities.

AGREEMENT

I. Term/Termination

A. *Effective Date:* This Agreement is effective on the date the State obtains all signatures required by Minnesota Statutes, section 16C.05, subdivision 2.

B. *Commencement of Work:* Upon notice of Agreement approval, the Utility Owner must promptly provide the State (and the State's Contractor (Contractor)) with any information necessary to commence and successfully prosecute the utility work according to the terms of the Notice and Order and a work schedule the State's Project Engineer (Project Engineer) approves.

C. *Expiration Date:* This Agreement will expire on the date that all obligations, excluding the Utility Owner's ongoing maintenance obligations, have been satisfactorily fulfilled.

D. *Termination by the State:* The State may terminate this Agreement at any time, with or without cause, on 30 calendar days' written notice to the Utility Owner. Upon termination, the State will be entitled to payment, on a pro rata basis, for satisfactorily performed services. The termination of this Agreement does not relieve the Utility Owner of its obligations under the Notice and Order.

E. *Survival of Terms:* The following articles survive this Agreement's expiration or termination: (III) Utility Owner's Ongoing Maintenance Requirements; (V) Indemnification; and (VII) Governing Terms.

II. Description of Work Procedures

A. *Plans:* The Utility Owner and the State will provide their portions of the plans. These plans, which are attached to this Agreement as Exhibit A, indicate the present and proposed locations of the Facilities.

1. If any changes to the plans or character of the work become necessary, the State and the Utility Owner must agree to the changes before the State makes (or directs the Contractor to make) them. If these changes require an amendment or supplement to this Agreement, the parties will negotiate such amendment or supplement in good faith, and the State is not obligated to commence such changes until such amendment or supplement is fully executed. The State will enter into such supplemental agreements with its Contractor as the State deems necessary to implement such changes.

2. The Utility Owner authorizes the Project Engineer to make any minor field changes and adjustments to the plans, specifications, and special provisions as the State deems necessary for efficient Project construction. The Utility Owner authorizes the State, on its behalf, to enter into supplemental agreements with the Contractor as necessary to implement these changes.

B. *State's Responsibilities*

1. The State will:

   a. Advertise the Project for bids; and
   b. Award a construction contract for the Project. This Project will include the relocation work.

2. The Project Engineer will supervise and direct the Project, including the relocation work, but the Utility Owner may inspect the work periodically. If the Utility Owner finds that any completed relocation work is not in accordance with the plans, specifications and special provisions, it must inform the Project Engineer of these deficiencies in writing promptly upon completion of its inspection; ; however, any recommendations the Utility Owner makes are not binding to the State. The State has the exclusive right to determine whether the Contractor has performed the work according to the plans, specifications, and special provisions.

3. The Project Engineer and the Utility Owner will perform a final inspection of the work. Once the State has accepted the relocation work, the Project Engineer will inform the Utility Owner in writing, and the Utility Owner will assume ownership of the Facilities.

C. *Deletion of Work:* If the Utility Owner decides to delete the work from the Project, the Utility Owner will:

1. Pay the State the design engineering cost in Article IV.B.3;

2. Be subject to the Notice and Order and remove and/or relocate the Facilities; and

3. Defend (at its own expense and to the extent Minnesota's Attorney General permits) indemnify, save, and hold the State and all of its agents and employees harmless of and from all claims, demands, actions, or causes of action that deleting the relocation work causes. This obligation to indemnify extends to any attorney's fees.

D. *Risk:* Risk of loss of partial or complete relocation work will be on the Contractor or the Utility Owner as the current *Standard Specifications for Construction* set forth.

III. Utility Owner's Ongoing Maintenance Requirements

A. Once construction is complete, the Utility Owner must maintain the Facilities at its own expense. The Utility Owner must follow the terms of the Permit when it performs any maintenance work.

B. The Utility Owner may open and disturb the trunk highway right of way without a permit in the case of an emergency that is dangerous to the public and requires immediate attention. Upon learning of the emergency, the Utility Owner must immediately notify the State Patrol. The Utility Owner must take all necessary and reasonable safety measures to protect the public and must cooperate fully with the State Patrol. In this event, the Utility Owner must request a permit from the proper authority no later than the working day after it begins working in the right of way.

IV. Payment

A. The State will determine the cost of the relocation and adjustment on a contract-unit-price basis. The Utility Owner authorizes the State to pay the Contractor directly for the work. As Exhibit B shows, the estimated cost of the Utility Owner's work is $44,103.59.

B. The Utility Owner agrees to pay the State the total cost it incurs to relocate and adjust the Facilities. The total cost will include:

1. The construction cost, which consists of all of the Contractor's bid item costs to satisfactorily relocate the Facilities according to the plans, specifications, and special provisions;

2. The construction engineering cost, which is equal to 8 percent of the construction cost; and

3. The design engineering cost, which is equal to 3 percent of the construction cost.

C. After acceptance of the bids, the State will notify the Utility Owner of the total cost by providing a written cost schedule.

1. The Utility Owner must accept or reject the total cost no more than 10 calendar days after receiving the cost schedule. If the Utility Owner does not provide this notification after 10 days, the State will consider the lack of response to be the Utility Owner's acceptance of the total cost and the State will proceed with the work.

2. If the Utility Owner chooses to delete its work from the State's contract, it must still pay the State the design engineering cost specified in Article IV.A. The Utility Owner will be obligated to remove or relocate its Facilities according to the terms of the Notice and Order.

D. The State will issue the Utility Owner an invoice for the amount specified in the cost schedule. Pursuant to Minnesota Statutes, section 161.46, subdivision 5, the Utility Owner will promptly reimburse the State for the relocation costs.

E. After the Contractor has completed the work required under its contract and the State has accepted the work, the State will prepare a final computation of the amount due from the Utility Owner.

1. If the final total amount is greater than the amount the State has already received from the Utility Owner, the Utility Owner must promptly pay the difference, without interest, to the State.

2. If the final total amount is less than the amount the State has already received from the Utility Owner, the State must pay the difference without interest, to the Utility Owner.

F. The final total cost constitutes payment in full for all relocation work according to this Agreement. This amount also constitutes payment in full for any and all damages, claims, or causes of action of any kind or nature that the Utility Owner may have relating to the relocation of the Facilities.

V. Indemnification

A. The Utility Owner will defend (at its own expense and to the extent Minnesota's Attorney General allows), indemnify, save, and hold the State and all of its agents and employees harmless of and from all claims, demands, actions, or causes of action arising from the Utility Owner's acts and omissions and from the State's (and its Contractor's) use of plans, designs, shop drawings, specifications, and special provisions prepared, reviewed, or approved by the Utility Owner. This indemnity obligation extends to any attorney's fees the State incurs in seeking to enforce this obligation, and in defending against any claims covered by this indemnity clause.

B. The Utility Owner does not waive any defense or immunity of third parties. The Utility Owner, in defending any action on behalf of the State, will be entitled to assert every defense or immunity that the State could assert on its own behalf.

VI. Nondiscrimination

Minnesota Statutes, section 181.59 and any applicable local ordinances pertaining to civil rights and nondiscrimination are considered part of this Agreement.

VII. Governing Terms

A. *Data Practices:* All parties must comply with the Minnesota Government Data Practices Act (Minnesota Statutes, chapter 13) as it applies to any data that a party to this Agreement receives, collects, stores, or disseminates under it. The Act provides civil liability for failure to comply with its requirements.

B. *Applicable Law:* Minnesota law governs the validity, interpretation, and enforcement of this Agreement. Venue for all legal proceedings arising out of this Agreement or its breach must be in Ramsey County, Minnesota.

C. *Waiver:* If a party fails to enforce any provision of this Agreement, that failure does not waive the provision or the party's right to subsequently enforce the provision or any subsequent breach of that provision.

D. *Merger:* This Agreement contains all negotiations and agreements between the State and the Utility Owner with respect to the subject matter it contains. No prior understanding regarding this Agreement, whether written or oral, may be used to bind either party.

E. *Assignment:* The Utility Owner may neither assign nor transfer any rights or obligations under this Agreement without the State's consent and a fully executed assignment agreement. To be valid, the assignment agreement must be signed and approved by the same parties who signed and approved this Agreement, or their successors in office.

F. *Amendments:* Any amendment to this Agreement must be in writing. An amendment will not be effective until the same parties who signed and approved this Agreement, or their successors in office, sign and approve the amendment.

G. *Incorporation of Exhibits:* All exhibits attached to this Agreement are incorporated into this Agreement.

H. *Counterparts:* The parties may sign this Agreement in counterparts, each of which constitutes an original, but all of which together constitute one instrument.

I. *Electronic Signatures:* The parties agree that the electronic signature of a party to this Agreement shall be as valid as an original signature of such party and shall be effective to bind such party to this Agreement. The parties further agree that any document (including this Agreement and any attachments or exhibits to this Agreement) containing, or to which there is affixed, an electronic signature shall be deemed (i) to be "written" or "in writing," (ii) to have been signed and (iii) to constitute a record established and maintained in the ordinary course of business and an original written record when printed from electronic files. For purposes hereof, "electronic signature" also means a manually signed original signature that is then transmitted by any electronic means, including without limitation a faxed version of an original signature or an electronically scanned and transmitted version (e.g., via PDF) of an original signature. Any party's failure to produce the original signature of any electronically transmitted signature shall not affect the enforceability of this Agreement.

The remainder of this page was left blank intentionally.

IN WITNESS WHEREOF, the parties have caused this Contract to by duly executed to be bound hereby.

CITY OF ST PAUL

The undersigned certify that they have lawfully executed this contract on behalf of the Governmental Unit as required by applicable charter provisions, resolutions, or ordinances.

Recommended for Approval:

By:_____
(Director of Public Works)

Approved as to form and execution:

By:_____
(Assistant City Attorney)

By:_____
(Mayor)

Date:_____

By:_____
(Director of Finance & Management Services)

Date:_____

STATE OF MINNESOTA
DEPARTMENT OF TRANSPORTATION

Department of Transportation

Recommended for Approval:

By: _____
Metro Utility Coordinator

Date: _____

Approved:

By: _____
Director, Office of Land Management

Date: _____

Department of Administration

By: _____

Date: _____

MINNESOTA DEPARTMENT OF TRANSPORTATION

CONSTRUCTION PLAN FOR GRADING, BITUMINOUS MILL & OVERLAY, ADA IMPROVEMENTS, SIGNALS AND RETAINING WALL REPAIR

LOCATED ON T.H.156 FROM ANNAPOLIS ST. TO T.H. 52

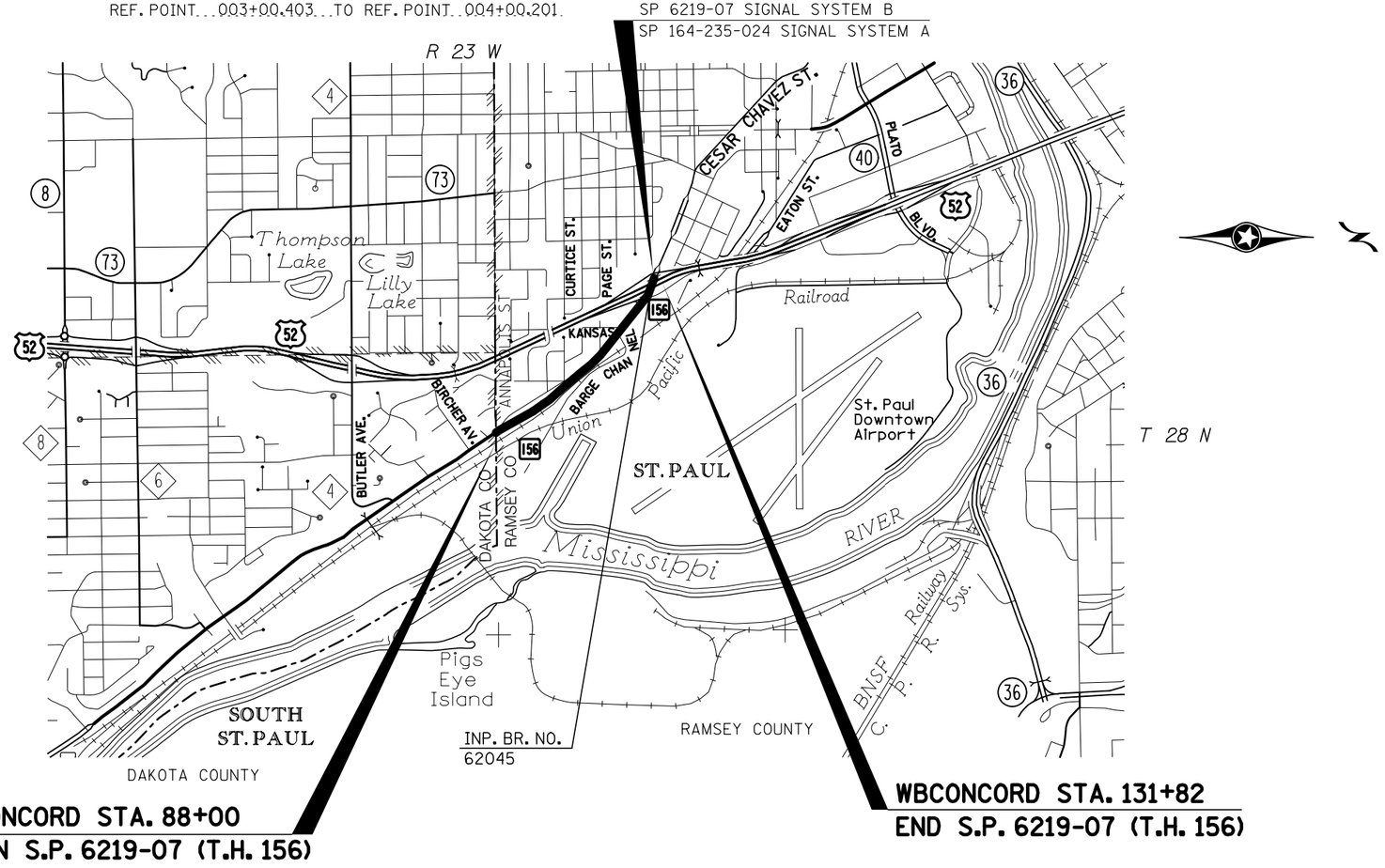
STATE PROJ. NO. 6219-07

GROSS LENGTH	4382.00	FEET	0.830 MILES
BRIDGES-LENGTH		FEET	MILES
EXCEPTIONS-LENGTH		FEET	MILES
NET LENGTH	4382.00	FEET	0.830 MILES

REF. POINT 003+00.403 TO REF. POINT 004+00.201

NOTE:
THE LENGTH AND DESCRIPTION OF PROJECT IS BASED ON WBCONCORD T.H. 156 ALIGNMENT

SP 6219-07 SIGNAL SYSTEM B
SP 164-235-024 SIGNAL SYSTEM A



INDEX MAP

SCALE

INDEX MAP	2000'
GENERAL LAYOUT	125'
PLAN	25'

PLAN REVISIONS		
DATE	SHEET NO.	APPROVER

DESIGN DESIGNATION

Design ESALS	=		
ADT (2018)	= 8900	Design Speed 40 MPH	
ADT (2040)	= 14,000	Based on STOPPING Sight Distance	
DHV (Design Hr. Vol.)	= 1500	Height of eye 3.50' Height of object 2.0'	
D (Directional Distr.)	= 57 %	Design Speed not achieved at:	
T (Heavy Commercial)	= 800	STA. TO STA. MPH	
		STA. TO STA. MPH	

PROJECT LOCATION
COUNTY : RAMSEY
DISTRICT : METRO

STATE PROJ. NO.	CHARGE IDENTIFIER
6219-07	

SAP 164-010-080

FED. PROJ. NO. STPXMAC 6221(049)

GOVERNING SPECIFICATIONS

THE 2018 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" SHALL GOVERN.

INDEX

SHEETS NO. 48 - 54 HAVE BEEN DELETED

THIS PLAN CONTAINS 173 SHEETS

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

PRINT NAME: ROBERT EVBAYEKHA LICENSE # 25421

DATE: 03/03/21 SIGNATURE:

DESIGN SQUAD LUIS REYES, LAWRENCE WADDELL, MARLAND STANLEY, LANCE SCHOWALTER

RECOMMENED FOR APPROVAL ..... 20.....
CITY OF ST. PAUL ENGINEER

OFFICE OF LAND MANAGEMENT APPROVAL ..... 20.....
DIRECTOR, LAND MANAGEMENT

APPROVED ..... 20.....
STATE DESIGN ENGINEER

..... 20.....
DISTRICT STATE AID ENGINEER: REVIEWED FOR COMPLIANCE WITH STATE AND/OR FEDERAL AID RULES/POLICY

..... 20.....
APPROVED FOR STATE AND/OR FEDERAL AID FUNDING: STATE AID ENGINEER

I HEREBY CERTIFY THAT THE FINAL FIELD REVISIONS, IF ANY, WERE PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

PRINT NAME: LICENSE #

DATE: SIGNATURE:

S.P. 164-235-024
STATE PROJ. NO. 6219-07 (T.H. 156 = 112) SHEET NO. 1 OF 125 SHEETS

(A) 80% CMAQ FEDERAL, 15% STATE, 5% CITY OF ST. PAUL FUNDS. SEE AGREEMENT NO. 1045964
(B) SEE AGREEMENT NO. 1046020
(C) SEE AGREEMENT NO. 1044554

STATEMENT OF ESTIMATED QUANTITIES

TAB	SHEET NUMBER	ITEM NUMBER	ITEM	UNIT	TOTAL ESTIMATED QUANTITIES	SP 6219-07				
						80% STPF FEDERAL/ 20% STATE FUNDS	80% CMAQ FEDERAL/ 20% STATE FUNDS	SP 164-235-024 (A)	100% CITY OF ST PAUL FUNDS (B)	100% CENTURYLINK FUNDS (C)
		2011.601	CONSTRUCTION SURVEYING	LUMP SUM	1	1				
		2011.601	AS BUILT	LUMP SUM	1	1				
		2021.501	MOBILIZATION	LUMP SUM	1	0.81	0.1	0.09		
		2051.501	MAINT AND RESTORATION OF HAUL ROADS	LUMP SUM	1	1				
J	8	2101.524	GRUBBING	TREE	14	14				
E	8	2104.502	REMOVE ANCHORAGE ASSEMBLY-PLATE BEAM	EACH	1	1				
E	8	2104.502	REMOVE TWISTED END TREATMENT	EACH	1	1				
C	9	2104.502	REMOVE CURB BOX	EACH	1	1				
C,K,S	9,13,14	2104.502	REMOVE CASTING	EACH	32	19			13	
ST	ST1	2104.502	REMOVE DELINEATOR / MARKER SIGN	EACH	1	1				
ST	ST1	2104.502	REMOVE SIGN TYPE C	EACH	15	15				
ST	ST1	2104.502	REMOVE SIGN TYPE D	EACH	1	1				
SS	SS1	2104.502	REMOVE SIGNAL SYSTEM A (1)	EACH	1			1		
SS	SS1	2104.502	REMOVE SIGNAL SYSTEM B (1)	EACH	1		1			
ST	ST1	2104.502	REMOVE SIGN PANEL TYPE C	EACH	1	1				
ST	ST1	2104.502	SALVAGE SIGN TYPE C	EACH	10	10				
ST	ST1	2104.502	SALVAGE SIGN TYPE SPECIAL	EACH	3	3				
D	8	2104.503	SAWING CONCRETE PAVEMENT (FULL DEPTH)	LIN FT	5057	5057				
C	9	2104.503	REMOVE MANHOLES OR CATCH BASINS	LIN FT	59	59				
C	9	2104.503	REMOVE SEWER PIPE (STORM)	LIN FT	47	47				
D,F	8,10	2104.503	REMOVE CURB AND GUTTER	LIN FT	7363	7363				
E	8	2104.503	REMOVE GUARDRAIL-PLATE BEAM	LIN FT	1990	1990				
D	8	2104.504	REMOVE PAVEMENT	SQ YD	1624	1624				
F	10	2104.504	REMOVE CONCRETE DRIVEWAY PAVEMENT	SQ YD	44	44				
F	10	2104.504	REMOVE CONCRETE PAVEMENT	SQ YD	1297	1297				
F	10	2104.518	REMOVE CONCRETE WALK	SQ FT	24857	24857				
P	14	2104.602	RELOCATE STREET LIGHT	EACH	2				2	
F	10	2104.618	REMOVE AND REPLACE BITUMINOUS PAVEMENT	SQ FT	1514	1514				
B	6	2106.507	EXCAVATION - COMMON (P)	CU YD	1272	1272				
D	8	2106.507	SELECT GRANULAR EMBANKMENT (CV) (P)	CU YD	185	185				
B	6	2106.507	COMMON EMBANKMENT (CV) (P)	CU YD	1432	1432				
D,F	8,10	2211.507	AGGREGATE BASE (CV) CLASS 6 (P)	CU YD	1155	1155				
		2231.509	BITUMINOUS PATCHING MIXTURE	TON	30	30				
D	8	2232.504	MILL BITUMINOUS SURFACE (1.0") (P)	SQ YD	22381	22381				
D	8	2232.504	MILL BITUMINOUS SURFACE (2.0") (P)	SQ YD	622	622				
F	10	2301.504	CONCRETE PAVEMENT 7.0"	SQ YD	1352	1352				
F	10	2301.602	DRILL AND GROUT REINFORCEMENT BAR (EPOXY COATED)	EACH	534	534				
D	8	2331.603	JOINT ADHESIVE	LIN FT	16787	16787				
D	8	2360.509	TYPE SP 12.5 WEARING COURSE MIXTURE (4,F)	TON	3538	3538				
F	10	2401.618	SPECIAL SURFACE FINISH (INPLACE)	SQ FT	1364	1364				
D	8	2451.507	FINE AGGREGATE BEDDING (CV) (P)	CU YD	254	254				
G	111	2503.503	15" RC PIPE SEWER DESIGN 3006 CLASS III	LIN FT	265	250			15	
G	111	2503.602	CONNECT TO EXISTING STORM SEWER	EACH	9	8			1	
C	9	2503.603	CLEAN AND VIDEO TAPE PIPE SEWER	LIN FT	45	45				
N	14	2504.602	ADJUST VALVE BOX-WATER	EACH	14	14				
C,K,S,G	9,13,14,111	2506.502	CASTING ASSEMBLY	EACH	35	21			14	
C,K,L,N,S	9,13,14	2506.502	ADJUST FRAME AND RING CASTING	EACH	27	4			14	9
G	111	2506.503	CONSTRUCT DRAINAGE STRUCTURE DESIGN H	LIN FT	11.7	11.7				
G	111	2506.503	CONSTRUCT DRAINAGE STRUCTURE DESIGN SD-48	LIN FT	11.7	11.7				
G	111	2506.503	CONSTRUCT DRAINAGE STRUCTURE DESIGN SD-60	LIN FT	3.3	3.3				
G	111	2506.503	CONSTRUCT DRAINAGE STRUCTURE DESIGN 48-4020	LIN FT	37.5	20.3			17.2	
G	111	2506.503	CONSTRUCT DRAINAGE STRUCTURE DESIGN 60-4020	LIN FT	16	9.5			6.5	
G	111	2506.503	CONSTRUCT DRAINAGE STRUCTURE DESIGN 120-4020	LIN FT	10	10				
G	111	2506.602	CONNECT INTO EXISTING DRAINAGE STRUCTURE	EACH	5	4			1	
C	9	2506.602	REPAIR CATCH BASINS	EACH	3	3				

(1) FOR EXISTING SIGNAL AS-BUILT PLANS, SEE PROVISIONS SPEC. 1205

S.P. 164-235-024

STATEMENT OF ESTIMATED QUANTITIES

DRAWN BY: RE | CHECKED BY: RE | CERTIFIED BY _____ LICENSED PROFESSIONAL ENGINEER LIC. NO. 25421 DATE 03/03/21 | STATE PROJ. NO. 6219-07 (T.H. 156) SHEET NO. 4 OF 125 SHEETS

GENERAL UTILITY NOTES:

- THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY LEVEL D. THIS UTILITY QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF CI / ASCE 38-02, ENTITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA".
- ALL POWER IS DISTRIBUTION UNLESS NOTED OTHERWISE.
- ONLY ADJUSTED OR RELOCATED UTILITIES WERE TABULATED ON THIS PLAN SET.
  IF A UTILITY IS SHOWN IN THE UTILITY PLAN BUT NOT TABULATED THEN IT IS PROPOSED TO BE LEFT IN PLACE.
- ALL RELOCATES AND ADJUSTMENTS TO BE DONE BY OTHERS UNLESS NOTED.

OWNERSHIP

THE FOLLOWING IS A LIST OF UTILITY COMPANIES USED IN THIS PROJECT:

CENTURY	=	CENTURYLINK
CITY	=	CITY OF ST. PAUL
MNDOT	=	MINNESOTA DEPARTMENT OF TRANSPORTATION
SPRWS	=	SAINT PAUL REGIONAL WATER SERVICES
XCEL	=	XCEL ENERGY

UTILITY ABBREVIATIONS

ANC	=	POLE ANCHOR
CHH	=	COMMUNICATIONS HANDHOLE
CVLT	=	COMMUNICATIONS VAULT
ECC	=	ELECTRIC CABLE IN CONDUIT
EHH	=	ELECTRICAL HANDHOLE
F/O-BUR	=	FIBER OPTIC BURIED
FOC	=	FIBER OPTIC IN CONDUIT
GAS	=	GAS LINE
HYD	=	HYDRANT
LP	=	LIGHT POLE
PP	=	POWER POLE
OHP	=	OVERHEAD POWER LINE
P-BUR	=	BURIED POWER
P-PED	=	POWER PEDESTAL
PETRO	=	PETROLEUM LINE
R METER	=	RAMP METER LIGHT
SAN LIN	=	SANITARY SEWER LINE
SAN MH	=	SANITARY MANHOLE
SIG-BUR	=	SIGNAL BURIED
SIG-INT	=	UNDERGROUND SIGNAL INTERCONNECT
SIG WIR	=	SIGNAL WIRE
T-BUR	=	TELEPHONE LINE BURIED
THH	=	TELEPHONE HANDHOLE
T-PED	=	TELEPHONE PEDESTAL
TV CABL	=	BURIED TELEVISION CABLE
TV TOWE	=	TELEVISION TOWER
USL	=	UNDERGROUND STREET LIGHT LINE
VALVE	=	WATER VALVE
VAULT	=	VAULT
U ST LIG	=	TRAFFIC SIGNAL LIGHT
WLIN	=	WATER LINE
WMH	=	WATER MANHOLE

GAS (1)

STATION TO STATION	OFFSET (FT)	INPLACE ITEM	OWNER	REMARKS: LEAVE AS IS	REMARKS: ADJUST	REMARKS: RELOCATE	NOTES
WBCONCORD_2							
132+21 - 133+28	25 RT	GAS	XCEL	X			
131+33 - 131+94	172 LT - 34 RT	GAS	XCEL	X			
125+80 - 131+94	35 RT - 34 RT	GAS	XCEL	X			
126+00 - 126+85	35 RT - 168 RT	GAS	XCEL	X			
119+51 - 119+74	62 LT - 85 LT	GAS	XCEL	X			
118+63 - 119+51	80 LT - 62 LT	GAS	XCEL	X			
118+09 - 118+63	143 LT - 80 LT	GAS	XCEL	X			
118+63 - 118+67	80 LT - 50 LT	GAS	XCEL	X			
118+59 - 118+67	41 LT - 50 LT	GAS	XCEL	X			
114+52 - 118+59	46 LT - 41 LT	GAS	XCEL	X			
109+65 - 113+62	40 LT - 42 LT	GAS	XCEL	X			
112+55 - 113+61	43 LT - 136 LT	GAS	XCEL	X			
111+09 - 111+40	41 LT - 32 RT	GAS	XCEL	X			
103+29 - 109+01	118 LT - 42 LT	GAS	XCEL	X			
104+39 - 105+07	104 LT - 212 LT	GAS	XCEL	X			

SANITARY SEWER (B) — K

STATION TO STATION	OFFSET (FT)	INPLACE ITEM	OWNER	REMARKS: LEAVE AS IS	REMOVE CASTING EACH	ADJUST FRAME AND RING CASTING EACH	CASTING ASSEMBLY EACH	RELOCATE	NOTES
WBCONCORD									
89+40	35'LT	SAN MH	CITY			1			(2)
106+36	49'LT	SAN MH	CITY		1		1		(2)
108+67	13'LT	SAN MH	CITY			1			(2)
110+54	11'RT	SAN MH	CITY			1			(2)
111+25	11'RT	SAN MH	CITY			1			(2)
111+48	10'RT	SAN MH	CITY			1			(2)
112+50	10'LT	SAN MH	CITY			1			(2)
114+78	21'LT	SAN MH	CITY		1		1		(2)
118+61	18'LT	SAN MH	CITY		1		1		(2)
120+00	16'RT	SAN MH	CITY			1			(2)
122+30	15'RT	SAN MH	CITY		1		1		(2)
124+49	35'RT	SAN MH	CITY		1		1		(2)
125+20	11'LT	SAN MH	CITY		1		1		(2)
128+33	36'LT	SAN MH	CITY		1		1		(2)
131+47	35' LT	SAN MH	CITY			1			(2)
TOTALS					7	8	7		

LEGEND

- INPLACE TRAFFIC SIGNAL SYSTEM
- ANCHOR
- CABINET
- CATCH BASIN
- P = ELECTRIC CABLE IN CONDUIT
- F/O -BUR FIBER OPTIC BURIED
- F/O= FIBER OPTIC IN CONDUIT
- G GAS LINE
- U HANDHOLE
- HYDRANT
- LIGHT POLE
- M MANHOLE
- OHP OVERHEAD POWER
- OHU OVERHEAD UTILITY
- PEDESTAL
- POWER POLE
- P-BUR POWER BURIED
- SEWER PIPE (STORM)
- SANITARY SEWER LINE
- SIGNAL
- SIG-BUR SIGNAL BURIED
- STREET LIGHT BURIED
- T-BUR TELEPHONE LINE BURIED
- WATER VALVE
- WATER LINE
- XXXXX INPLACE STRUCTURE NUMBER

NOTE:

(1) CAUTION: GAS LINE WITHIN EXCAVATION AREA

(2) WORK TO BE DONE BY CONTRACTOR

(B) 100% CITY OF ST. PAUL FUNDS

GAS
SANITARY SEWER

S.P. 164-235-024

1 OF 2

INPLACE UTILITY TABULATIONS

STATE PROJ. NO. 6219-07 (T.H. 156) SHEET NO. 13 OF 125 SHEETS

DRAWN BY: AN | CHECKED BY: RE | CERTIFIED BY _____ LICENSED PROFESSIONAL ENGINEER | LIC. NO. 25421 DATE 03/03/21

COMMUNICATIONS (C) — L

STATION TO STATION	OFFSET (FT)	INPLACE ITEM	OWNER	REMARKS: LEAVE AS IS	REMARKS: ADJUST FRAME AND RING CASTING EACH (1)	REMARKS: RELOCATE	NOTES
WBCONCORD_2							
89+14	30' LT	MH	CENTURY		1		(2)
89+23	32' LT	MH	CENTURY		1		(2)
111+84	28 LT	MH	CENTURY		1		(2)
116+96	37 LT	MH	CENTURY		1		(2)
119+25	39' LT	MH	CENTURY		1		(2)
119+67	2 RT	MH	CENTURY		1		(2)
123+05	16' RT	MH	CENTURY		1		(2)
126+32	17 RT	MH	CENTURY		1		(2)
132+15	7 RT	MH	CENTURY		1		(2)
TOTALS					9		

FIBER OPTIC

STATION TO STATION	OFFSET (FT)	INPLACE ITEM	OWNER	REMARKS: LEAVE AS IS	REMARKS: ADJUST	REMARKS: RELOCATE	NOTES
WB CONCORD_2 (TH 156)							
121+79 - 125+42	333 ' LT - 92 ' LT	F/O	MNDOT	X			
125+42 - 125+95	92 ' LT - 70 ' LT	F/O	MNDOT	X			
125+95 - 127+06	70 ' LT - 36 ' RT	F/O	MNDOT	X			
127+06 - 127+53	36 ' RT - 102 ' RT	F/O	MNDOT	X			
127+53 - 129+46	102 ' RT - 222 ' RT	F/O	MNDOT	X			
129+46 - 130+10	222 ' RT - 274 ' RT	F/O	MNDOT	X			
128+05 - 129+30	193 ' LT - 96 ' LT	F/O	MNDOT	X			
129+30 - 130+06	96 ' LT - 24 ' RT	F/O	MNDOT	X			
130+06 - 130+53	24 ' RT - 55 ' RT	F/O	MNDOT	X			
130+53 - 131+07	55 ' RT - 76 ' RT	F/O	MNDOT	X			
131+07 - 131+76	76 ' RT - 55 ' RT	F/O	MNDOT	X			
131+76 - 131+07	55 ' RT - 76 ' RT	F/O	MNDOT	X			
131+07 - 130+98	76 ' RT - 58 ' RT	F/O	MNDOT	X			
130+98 - 130+87	58 ' RT - 65 ' RT	F/O	MNDOT	X			
130+87 - 131+46	65 ' RT - 138 ' RT	F/O	MNDOT	X			
131+46 - 131+38	138 ' RT - 145 ' RT	F/O	MNDOT	X			
131+38 - 131+29	145 ' RT - 162 ' RT	F/O	MNDOT	X			
131+29 - 131+13	162 ' RT - 164 ' RT	F/O	MNDOT	X			
131+13 - 131+05	164 ' RT - 161 ' RT	F/O	MNDOT	X			

STREET LIGHT (B) — P

STATION TO STATION	OFFSET (FT)	INPLACE ITEM	OWNER	REMARKS: LEAVE AS IS	REMARKS: ADJUST	REMARKS: RELOCATE	NOTES
WB CONCORD							
106+28	26 ' LT	LP	CITY			X	
123+69	43 ' LT	LP	CITY			X	

WATER (A) — N

STATION TO STATION	OFFSET (FT)	INPLACE ITEM	OWNER	REMARKS: LEAVE AS IS	REMARKS: ADJUST VALVE BOX-WATER EACH (1)	REMARKS: ADJUST FRAME AND RING CASTING EACH (1)	REMARKS: RELOCATE	NOTES
WBCONCORD_2								
89+06	2'LT	VALVE	SPRWS		1			(2)
89+09	3'LT	MH	SPRWS			1		(2)
89+14	4'LT	VALVE	SPRWS		1			(2)
89+32	12'LT	VALVE	SPRWS		1			(2)
111+38	18'RT	VALVE	SPRWS		1			(2)
112+22	17'RT	VALVE	SPRWS		1			(2)
113+14	46'LT	VALVE	SPRWS		1			(2)
116+55	16'RT	VALVE	SPRWS		1			(2)
119+20	7'LT	VALVE	SPRWS		1			(2)
119+56	4'LT	VALVE	SPRWS		1			(2)
119+71	5'LT	VALVE	SPRWS		1			(2)
120+68	6'LT	VALVE	SPRWS		1			(2)
120+89	6'LT	VALVE	SPRWS		1			(2)
125+05	23'RT	VALVE	SPRWS		1			(2)
131+80	3'RT	VALVE	SPRWS		1			(2)
TOTALS					14	1		

STORM SEWER (B) — S

STATION TO STATION	OFFSET (FT)	INPLACE ITEM	OWNER	REMARKS: LEAVE AS IS	REMARKS: REMOVE CASTING EACH	REMARKS: ADJUST FRAME AND RING CASTING EACH (1)	REMARKS: CASTING ASSEMBLY EACH	REMARKS: RELOCATE	NOTES
WBCONCORD									
106+31	55'LT	MH	CITY			1			(2)
110+58	16'LT	MH	CITY			1			(2)
111+73	15'LT	MH	CITY			1			(2)
112+54	24'LT	MH	CITY			1			(2)
112+87	54'LT	MH	CITY		1		1		(2)
120+37	9'LT	MH	CITY		1		1		(2)
124+32	4'LT	MH	CITY		1		1		(2)
128+02	42'LT	MH	CITY			1			(2)
131+81	39'LT	MH	CITY			1			(2)
TOTALS					3	6	3		

NOTE:

(1) RAISE VERTICALLY TO FLUSH WITH FINISHED ROADWAY SURFACE.

(2) WORK TO BE DONE BY CONTRACTOR

(A) 80% STPF FEDERAL, 20% STATE FUNDS
(B) 100% CITY OF ST. PAUL FUNDS
(C) 100% CENTURYLINK FUNDS

WATER
FIBER OPTIC
COMMUNICATIONS
STREET LIGHT
STORM SEWER

S.P. 164-235-024

2 OF 2

INPLACE UTILITY TABULATIONS

STATE PROJ. NO. 6219-07 (T.H. 156) SHEET NO. 14 OF 125 SHEETS

DRAWN BY: AN | CHECKED BY: RE | CERTIFIED BY _____ LICENSED PROFESSIONAL ENGINEER | LIC. NO. 25421 DATE 03/03/21

BEGIN S.P. 6219-07 (T.H. 156)
WBCONCORD STA. 88+00

CITY OF ST. PAUL
RAMSEY COUNTY

CITY OF SOUTH ST. PAUL
DAKOTA COUNTY

City Storm Sewer
City Sanitary Sewer
City Lighting

HOMER ST.
ANNAPOLIS ST.
CONCORD ST.
T.H. 156
℄ WBCONCORD
(T.H. 156)
UNION PACIFIC RR
UNION PACIFIC RR
UNION PACIFIC RR
UNION PACIFIC RR
INP R/W
6' BIKE LANE
6' BIKE LANE
CENTURY
CITY
CITY SO.
XCEL
SPRWS
OHP
T/E
UMH
1649
85
86
87
88
89
90
91
92

NOTE:
FOR GENERAL UTILITY NOTES AND LEGEND SEE SHEET NO. 13

AREAS OF ENVIRONMENTAL SENSITIVITY

50
SCALE IN FEET

S.P. 164-235-024

1 OF 7

INPLACE UTILITIES AND TOPOGRAPHY PLANS

DRAWN BY: AN	CHECKED BY: RE	CERTIFIED BY _____ LICENSED PROFESSIONAL ENGINEER LIC. NO. 25421 DATE 02/11/21	STATE PROJ. NO. 6219-07 (T.H. 156)	SHEET NO. 66 OF 125 SHEETS

MnDOT Agreement Number 1046020
Exhibit A

No City structures affected on this sheet

PLOTTED/REVISED: 8-MAR-2021

DISTRICT #: Metro
IPLOT NAME: d621907_utlitopo02
FILENAME: Projects\DM_ROS\56\621907\007\Design\PlanSheets\04 InpUtl & topo\d621907_utlitopo02.dgn

CITY OF ST. PAUL
RAMSEY COUNTY

CONCORD ST.

T.H. 156
CONCORD ST.

℄ WBCONCORD
(T.H. 156)

UNION PACIFIC RR
UNION PACIFIC RR

AREAS OF ENVIRONMENTAL SENSITIVITY

NOTE:
FOR GENERAL UTILITY NOTES AND LEGEND SEE SHEET NO. 13

50
SCALE IN FEET

S.P. 164-235-024

2 OF 7

INPLACE UTILITIES AND TOPOGRAPHY PLANS

STATE PROJ. NO. 6219-07 (T.H. 156) SHEET NO. 67 OF 125 SHEETS

DRAWN BY: AN | CHECKED BY: RE | CERTIFIED BY _____ LICENSED PROFESSIONAL ENGINEER | LIC. NO. 25421 DATE 02/11/21

PLOTTED/REVISED: 8-MAR-2021
FILENAME: Projects\DM_R05\V56\621907\007\Design\PlanSheets\04 inpUtl & topo\d621907_utltopo03.dgn
IPLOT NAME: d621907_utltopo03
DISTRICT *: Metro

CITY OF ST. PAUL
RAMSEY COUNTY

BELVIDERE ST.
STICKNEY ST.
CURTICE ST.
CONCORD ST.
INP GOAT PATH
INP WALK
INP R/W
6' BIKE LANE
11' THRU LANE
T.H. 156
INP RR R/W
T/E
OHP
℄ WBCONCORD
(T.H. 156)
UNION PACIFIC RR
UNION PACIFIC RR
BARGE CHANNEL RD.
CITY
SPRWS
XCEL
CENTURY
592
590
99
100
101
102
103
104
105
106

NOTE:
FOR GENERAL UTILITY NOTES AND LEGEND SEE SHEET NO. 13

AREAS OF ENVIRONMENTAL SENSITIVITY
AREAS OF ENVIRONMENTAL SENSITIVITY

50
SCALE IN FEET

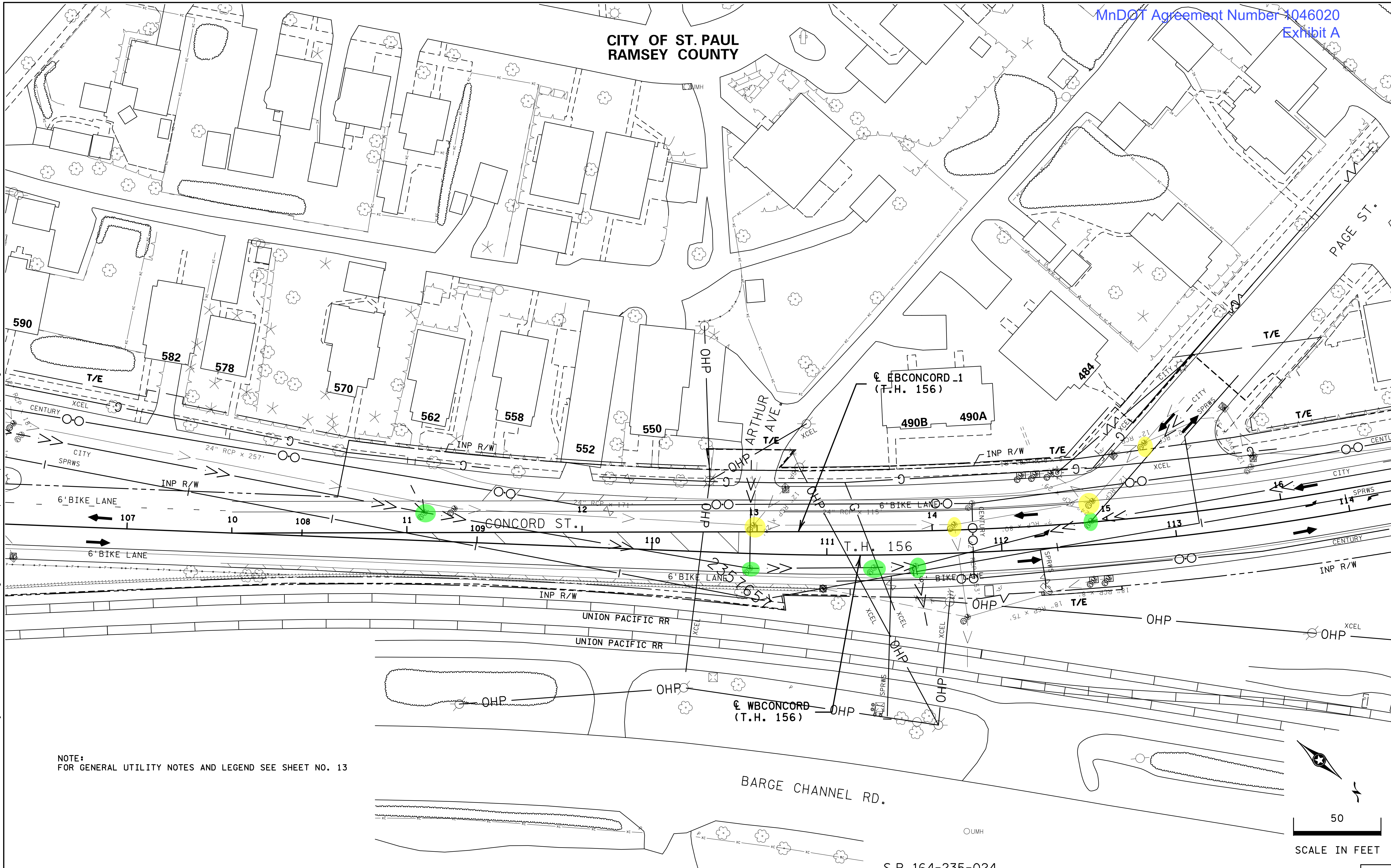
S.P. 164-235-024

3 OF 7

INPLACE UTILITIES AND TOPOGRAPHY PLANS

DRAWN BY: AN	CHECKED BY: RE	CERTIFIED BY _____ LICENSED PROFESSIONAL ENGINEER	LIC. NO. 25421	DATE 02/11/21

STATE PROJ. NO. 6219-07 (T.H. 156) SHEET NO. 68 OF 125 SHEETS



DISTRICT •: Metro
IPLOT NAME: d62l907_utlltopo04
FILENAME: Projects\DM_ROS\156\6219\007\Design\PlanSheets\04 InpUtl & topo\d62l907_utlltopo04.dgn
PLOTTED/REVISED: 8-MAR-2021

S.P. 164-235-024

4 OF 7

INPLACE UTILITIES AND TOPOGRAPHY PLANS

DRAWN BY: AN	CHECKED BY: RE	CERTIFIED BY [signature] LICENSED PROFESSIONAL ENGINEER	LIC. NO. 25421	DATE 02/11/21	STATE PROJ. NO. 6219-07 (T.H. 156) SHEET NO. 69 OF 125 SHEETS

PLOTTED/REVISED: 8-MAR-2021

DISTRICT *: Metro
IPLOT NAME: d62l907_utltopo05
FILENAME: Projects\DM_ROS\56\62l9\007\Design\PlanSheets\04 InpUtl & topo\d62l907_utltopo05.dgn

PAGE ST.
KANSAS AVE.
RIO VISTA
VISTA VILLAGE
℄ EBCONCORD_1
(T.H. 156)
℄ WBCONCORD
(T.H. 156)
T.H. 156
CONCORD ST.
CITY OF ST. PAUL
RAMSEY COUNTY
BARGE CHANNEL RD.
ROBIE ST.
PARKING LOT
PARKING LOT
UNION PACIFIC RR
UNION PACIFIC RR
6' BIKE LANE
6' BIKE LANE
6' BIKE LANE
INP R/W
T/E
OHP
XCEL
CENTURY
CITY
SPRWS
UMH
CITY R/W
464
456
452
476
472
492
506
NOTE:
FOR GENERAL UTILITY NOTES AND LEGEND SEE SHEET NO. 13
50
SCALE IN FEET
S.P. 164-235-024
5 OF 7

INPLACE UTILITIES AND TOPOGRAPHY PLANS

DRAWN BY: AN | CHECKED BY: RE | CERTIFIED BY _____ LICENSED PROFESSIONAL ENGINEER | LIC. NO. 25421 DATE 02/11/21 | STATE PROJ. NO. 6219-07 (T.H. 156) | SHEET NO. 70 OF 125 SHEETS

T.H. 52 SB
T.H. 52 NB
T.H. 52 NB EXIT RAMP (RAMP C)
℄ RAMPC
℄ EBCONCORD_2 (T.H. 156)
℄ PCHOP1
℄ RAMPG
℄ WBCONCORD_2 (T.H. 156)
T.H. 156 CONCORD ST.
T.H. 52 NB (RAMP D)
ENTRANCE RAMP TO T.H. 52 NB (RAMP D)
INP: BR NO. 62045
TRAFFIC CONTROL SIGNAL SYSTEM B 126(INP)
RIO VISTA
PARKING LOT
OUR LADY OF GUADALUP CATHOLIC CHURCH
CITY OF ST. PAUL
RAMSEY COUNTY
ROBIE ST.
GARLIC MUSTARD
SPOTTED KNAPWEED
LEAFY SURGE
BUCKTHORN
CANADA THISTLE
MUSK THISTLE
INP RW
INP R/W
6' BIKE LANE
11' THRU LANE
LEFT TURN LANE
RIGHT TURN LANE
SIG-BUR
OHP
UMH
T/E
CITY
MNDOT
CENTURY
SPRWS
XCEL

NOTE:
FOR GENERAL UTILITY NOTES AND LEGEND SEE SHEET NO. 13

NOXIOUS WEEDS

50
SCALE IN FEET

S.P. 164-235-024

6 OF 7

INPLACE UTILITIES AND TOPOGRAPHY PLANS

DRAWN BY: AN | CHECKED BY: RE | CERTIFIED BY _____ LICENSED PROFESSIONAL ENGINEER | LIC. NO. 25421 DATE 02/11/21

STATE PROJ. NO. 6219-07 (T.H. 156) SHEET NO. 71 OF 125 SHEETS

CITY OF ST. PAUL
RAMSEY COUNTY

ENTRANCE RAMP TO T.H. 52 SB (RAMP A)

ENTRANCE RAMP TO T.H. 52 NB (RAMP D)

T.H. 156
CONCORD ST.

T.H. 52 NB

T.H. 52 SB

T.H. 52 SB EXIT RAMP (RAMP B)

CESAR CHAVEZ ST.

INP. BR. No. 62045

TRAFFIC CONTROL SIGNAL SYSTEM B (INP)

TRAFFIC CONTROL SIGNAL SYSTEM A (INP)

℄ WBCONCORD_2 (T.H. 156)

℄ EBCONCORD_2 (T.H. 156)

℄ WBCONCORD (T.H. 156)

℄ ADA1

WBCONCORD STA. 131+82
END S.P. 6219-07 (T.H. 156)

CANADA THISTLE
MUSK THISTLE
SPOTTED KNAPWEED

INP R/W
CITY R/W

6' BIKE LANE
5' BIKE LANE

SCALE IN FEET: 50

NOTE:
FOR GENERAL UTILITY NOTES AND LEGEND SEE SHEET NO. 13

NOXIOUS WEEDS

S.P. 164-235-024

7 OF 7

DISTRICT *: Metro
PLOT NAME: d62\907_utl\topo07
FILENAME: Projects\DM_ROS\56\6219\007\Design\PlanSheets\04 InpUtl & topo\d62\907_utl\topo07.dgn

PLOTTED/REVISED: 8-MAR-2021

DRAWN BY: AN	CHECKED BY: RE	CERTIFIED BY _____ LICENSED PROFESSIONAL ENGINEER LIC. NO. 25421 DATE 02/11/21

INPLACE UTILITIES AND TOPOGRAPHY PLANS

STATE PROJ. NO. 6219-07 (T.H. 156) SHEET NO. 72 OF 125 SHEETS

DRAINAGE TABULATION SUMMARY

G

DRAINAGE PROFILES AND TABULATION SHEET ORDER	80% STPF FEDERAL / 20% STATE FUNDS										100% CITY OF ST. PAUL FUNDS					
	CONSTRUCT DRAINAGE STRUCTURE DESIGN						15" RC PIPE SEWER DESIGN 3006 CL III	CASTING ASSEMBLY	CONNECT INTO EXISTING DRAINAGE STRUCTURE	CONNECT TO EXISTING STORM SEWER	CONSTRUCT DRAINAGE STRUCTURE DESIGN		15" RC PIPE SEWER DESIGN 3006 CL III	CASTING ASSEMBLY ①	CONNECT INTO EXISTING DRAINAGE STRUCTURE	CONNECT TO EXISTING STORM SEWER
	PAY / HEIGHT										PAY / HEIGHT					
	H	SD-48	SD-60	48-4020	60-4020	120-4020					48-4020	60-4020				
	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	EACH		EACH	LIN FT	LIN FT	LIN FT	EACH	EACH	EACH
1 OF 6	3.2	7.6			9.5		122	4		3						
2 OF 6	2.5		3.3				72	2	1		4.8		6	1	1	
3 OF 6	2.9			15.6			19	4		2	7.2			1		
4 OF 6	3.1	4.1		4.7			10	3	1	2	5.2		9	1		
5 OF 6						10		1		1		6.5		1		1
TOTALS	11.7	11.7	3.3	20.3	9.5	10	223	14	2	8	17.2	6.5	15	4	1	1

NOTE

① SEE SHEETS 112 - 115 FOR CITY OF ST. PAUL STANDARD PLATES.

CASTING ASSEMBLY SUMMARY

ASSEMBLY	ASSEMBLIES REQUIRED	CASTING NUMBER	STANDARD PLATE NO.	NOTES
B - 9	11	FRAME CASTING NO. 805 GRATE CASTING NO. 816	4132 4154	
ADA - 1	3	GRATE CASTING NO. 817 FRAME CASTING NO 805	4155 4155	
A - 7D	1	RING CASTING NO.700-7 COVER CASTING NO. 715	4101 4110	

S.P. 164-035-024

6 OF 6

DRAINAGE PROFILES AND TABULATIONS

DRAWN BY: LJR | CHECKED BY: RE | CERTIFIED BY _____ LICENSED PROFESSIONAL ENGINEER LIC. NO. 23720 DATE _____ | STATE PROJ. NO. 6219-07 (T.H. 156) SHEET NO. 111 OF 125 SHEETS

PLOTTED/REVISED: 31-MAR-2021

DISTRICT *: Metro
IPLOT NAME: d62l907_drp6
FILENAME: Projects\DM_R05V56\62190O7\Design\Hydraul\csv\d62l907_drpl.dgn

DRAINAGE TABULATION (THIS SHEET ONLY)

STRUCTURE NO.		STRUCTURE LOCATION				DRAINAGE STRUCTURES						TOP OF CASTING ELEV.	OUTLET ELEV.	INLET ELEV. ③	15" RC PIPE SEWER DESIGN 3006 CL III	CONNECT INTO EXISTING DRAINAGE STRUCTURE	REMARKS
FLOWS FROM	FLOWS TO	ALIGN.	STATION	OFFSET		TYPE	PAY HEIGHT SD-60 LIN FT	PAY HEIGHT 48-4020 LIN FT	PAY HEIGHT H LIN FT	CASTING ASSEMBLY TYPE ①	STEPS REQ'D ②				LIN FT	EACH	
5028	5027	WBCONCORD	106+23.56	18.7'	RT	CB			2.5	ADA-1		724.44	721.90	721.78	29		(A)
5027	2387348	WBCONCORD	105+94.96	18.7'	RT					ADA-1		725.06					(A) ④
55027	2387348	WBCONCORD	105+94.96	17.4'	RT	CB	3.3						721.73	721.55	43	1	(A) ⑤
5025	2357659	WBCONCORD	106+18.68	72.9'	LT					ADA-1		726.11					(B) ④
55025	2357659	WBCONCORD	106+18.68	72.9'	LT	CB		4.8			YES		721.33	721.26	6	1	(B) ⑤
TOTALS							3.3	4.8	2.5	3					78	2	

NOTES:
STA. AND OFFSET IS AT
- CENTER OF STRUCTURE UNLESS OTHERWISE NOTED.
- END OF RC APRON, CS SAFETY APRON
- END OF BARREL, CS PIPE
FLOWLINE (F.L.) ELEVATIONS ARE AT CENTER OF STRUCTURE ON PROFILES.
INLET ELEVATIONS ARE AT DOWNSTREAM STRUCTURE.
INLET AND OUTLET ELEVATIONS ON TABULATION ARE AT EDGE OF STRUCTURE.

ALL CIRCULAR CONCRETE PIPE SEWER IS DESIGN 3006 GASKET JOINT PIPE.

① FOR CASTING ASSEMBLY KEY & SUMMARY, SEE SHEET NO. 103.

② STEPS ARE INCIDENTAL.

③ INLET ELEVATION AT DOWN-STREAM STRUCTURE.

④ CENTER OF CASTING.

⑤ CENTER OF STRUCTURE.

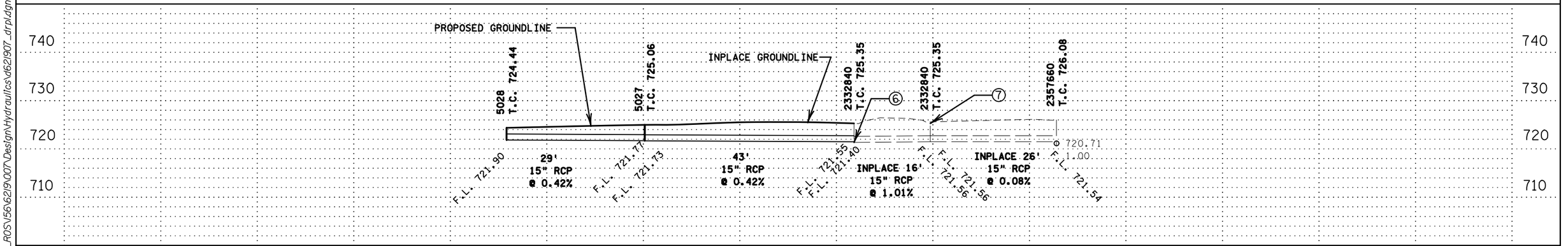
⑥ CONNECT INTO EXISTING DRAINAGE STRUCTURE.

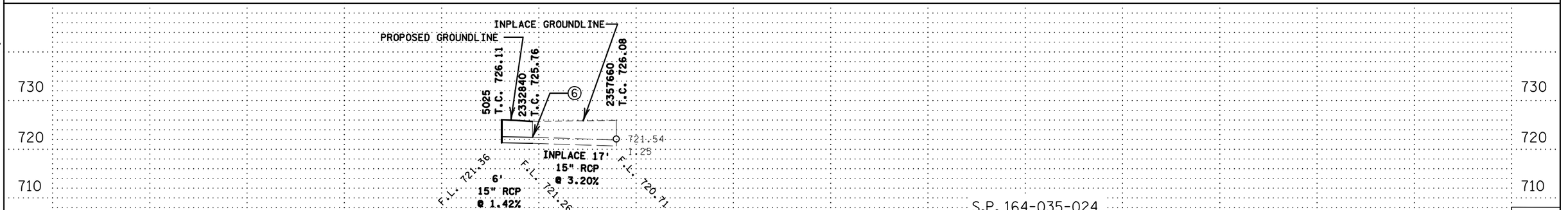
⑦ SEE MISCELLANEOUS DRAINAGE TABULATION FOR QUANTITY.

(A) 80% STPF FEDERAL/20% STATE FUNDS.

(B) 100% CITY OF ST. PAUL FUNDS.

GENERAL NOTES:
CONTRACTORS SHALL FIELD VERIFY ALL INVERTS AND ADJUST TO ALLOW FOR POSITIVE FLOW AS DIRECTED BY THE ENGINEER.





S.P. 164-035-024

2 OF 6

5025 5027 5028

DRAINAGE PROFILES AND TABULATIONS

DRAWN BY: LJR | CHECKED BY: RE | CERTIFIED BY _____ LICENSED PROFESSIONAL ENGINEER LIC. NO. 23720 DATE _____

STATE PROJ. NO. 6219-07 (T.H. 156) SHEET NO. 107 OF 125 SHEETS

PLOTTED/REVISED: 31-MAR-2021
DISTRICT *: Metro
IPLOT NAME: d62l907_drp2
FILENAME: Projects\DM_R0SV\56\62l9\007\Design\Hydraulics\d62l907_drpl.dgn

DRAINAGE TABULATION (THIS SHEET ONLY)

STRUCTURE NO.		STRUCTURE LOCATION			DRAINAGE STRUCTURES										
						PAY HEIGHT							15" RC PIPE SEWER DESIGN 3006 CL III	CONNECT TO EXISTING STORM SEWER	REMARKS
FLOWS FROM	FLOWS TO	ALIGN.	STATION	OFFSET	TYPE	48-4020	H	CASTING ASSEMBLY TYPE ①	STEPS REQ'D ②	TOP OF CASTING ELEV.	OUTLET ELEV.	INLET ELEV. ③			
						LIN FT	LIN FT						LIN FT	EACH	
5010	2357657	EBCONCORD_1	11+27.20	13.7' LT				CITY ⑧		717.63					(B) ④
55010	2357657	EBCONCORD_1	11+27.79	13.2' LT	MH	7.2			YES		710.58	704.94			(B) ⑤
5011	2384389	EBCONCORD_1	13+26.67	24.8' LT				B - 9		710.50					(A) ④
55011	2384389	EBCONCORD_1	13+26.67	24.8' LT	CB		2.9				707.50	707.40	11		(A) ⑤
5005	5006	WBCONCORD	112+59.42	21.1' RT				B - 9		707.51					(A) ④
55005	5006	WBCONCORD	112+59.36	20.3' RT	CB	5.1			YES		702.36	702.31	8		(A) ⑤
5006	2356236	WBCONCORD	112+51.03	21.2' RT				B - 9		707.40					(A) ④
55006	2356236	WBCONCORD	112+50.97	20.4' RT	CB	5.1			YES		702.20	701.80		1	(A) ⑤
5007	2356236	WBCONCORD	110+97.76	19.7' RT				B - 9		710.49					(A) ④
55007	2356236	WBCONCORD	110+97.64	18.9' RT	CB	5.4			YES		703.17	703.00		1	(A) ⑤
TOTALS						22.8	2.9	5					19	2	

① FOR CASTING ASSEMBLY KEY & SUMMARY, SEE SHEET NO. 103.

② STEPS ARE INCIDENTAL.

③ INLET ELEVATION AT DOWN-STREAM STRUCTURE.

④ CENTER OF CASTING.

⑤ CENTER OF STRUCTURE.

⑥ CONNECT INTO EXISTING STORM SEWER.

⑦ CONNECT INTO EXISTING DRAINAGE STRUCTURE.

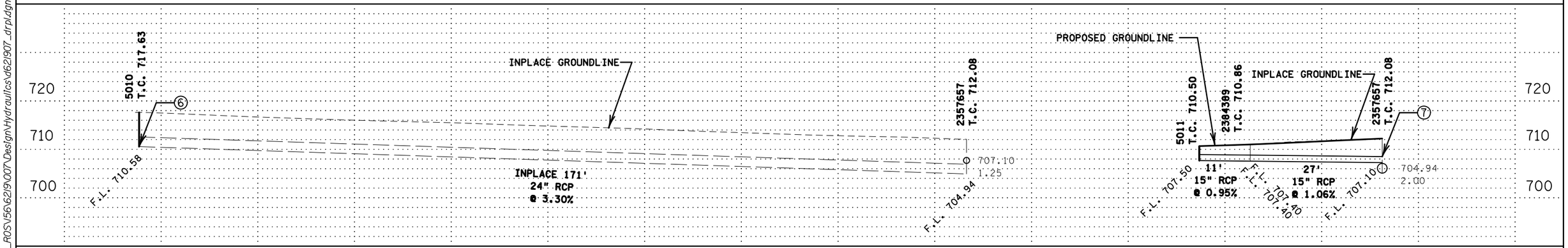
⑧ SEE SHEETS 112 - 115 FOR CITY OF ST. PAUL STANDARD PLATES.

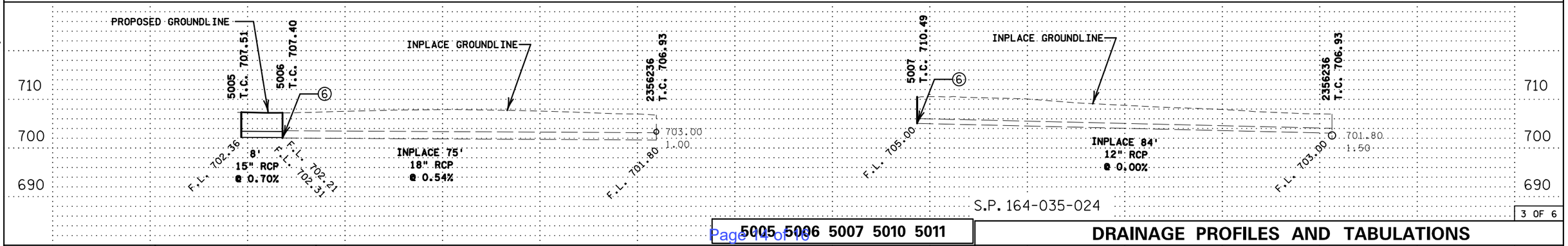
NOTES:
STA. AND OFFSET IS AT
- CENTER OF STRUCTURE UNLESS OTHERWISE NOTED.
- END OF RC APRON, CS SAFETY APRON
- END OF BARREL, CS PIPE
FLOWLINE (F.L.) ELEVATIONS ARE AT CENTER OF STRUCTURE ON PROFILES.
INLET ELEVATIONS ARE AT DOWNSTREAM STRUCTURE.
INLET AND OUTLET ELEVATIONS ON TABULATION ARE AT EDGE OF STRUCTURE.
ALL CIRCULAR CONCRETE PIPE SEWER IS DESIGN 3006 GASKET JOINT PIPE.

(A) 80% STPF FEDERAL/20% STATE FUNDS.

(B) 100% CITY OF ST. PAUL FUNDS.

GENERAL NOTES:
CONTRACTORS SHALL FIELD VERIFY ALL INVERTS AND ADJUST TO ALLOW FOR POSITIVE FLOW AS DIRECTED BY THE ENGINEER.





S.P. 164-035-024

3 OF 6

5005 5006 5007 5010 5011

DRAINAGE PROFILES AND TABULATIONS

DRAWN BY: LJR | CHECKED BY: RE | CERTIFIED BY _____ LICENSED PROFESSIONAL ENGINEER LIC. NO. 23720 DATE _____

STATE PROJ. NO. 6219-07 (T.H. 156) SHEET NO. 108 OF 125 SHEETS

PLOTTED/REVISED: 31-MAR-2021
DISTRICT *: Metro
IPLOT NAME: d62l907_drp3
FILENAME: Projects\DM_R0SV56\62l9\007\Design\Hydraul\csv\62l907_drpl.dgn

DRAINAGE TABULATION (THIS SHEET ONLY)

STRUCTURE NO.		STRUCTURE LOCATION			DRAINAGE STRUCTURES											
						PAY HEIGHT										
FLOWS FROM	FLOWS TO	ALIGN.	STATION	OFFSET	TYPE	SD-48	48-4020	H	CASTING ASSEMBLY TYPE ①	STEPS REQ'D ②	TOP OF CASTING ELEV.	OUTLET ELEV.	INLET ELEV. ③	15" RC PIPE SEWER DESIGN 3006 CL III	CONNECT INTO EXISITNG DRAINAGE STRUCTURE	CONNECT TO EXISITNG STORM SEWER	REMARKS
						LIN FT	LIN FT	LIN FT						LIN FT	EACH	EACH	
5026	6007	EBCONCORD_1	15+27.68	51.5' LT					CITY ⑧		709.31						(B) ④
55026	6007	EBCONCORD_1	15+28.41	51.1' LT	CB		5.2			YES		705.50	705.30	9			(B) ⑤
5000	6003	WBCONCORD	120+14.44	15.5' RT					B - 9		718.10						(A) ④
55000	6003	WBCONCORD	120+14.46	14.7' RT	CB	4.1				YES		713.92	713.72			1	(A) ⑤
5001	5003	EBCONCORD_1	21+95.92	28.4' LT	CB			3.1	B - 9		718.28	715.11	714.28			1	(A)
5015	2323443	WBCONCORD	124+01.96	101.3' LT							726.81						(A) ④
55015	2323443	WBCONCORD	124+02.76	101.5' LT			4.7		B - 9	YES		722.03	721.95	10	1		(A) ⑤
TOTALS						4.1	9.9	3.1	4					19	1	2	

① FOR CASTING ASSEMBLY KEY & SUMMARY, SEE SHEET NO. 103.

② STEPS ARE INCIDENTAL.

③ INLET ELEVATION AT DOWN-STREAM STRUCTURE.

④ CENTER OF CASTING.

⑤ CENTER OF STRUCTURE.

⑥ CONNECT INTO EXISTING STORM SEWER.

⑦ CONNECT INTO EXISTING DRAINAGE STRUCTURE.

⑧ SEE SHEETS 112 - 115 FOR CITY OF ST. PAUL STANDARD PLATES.

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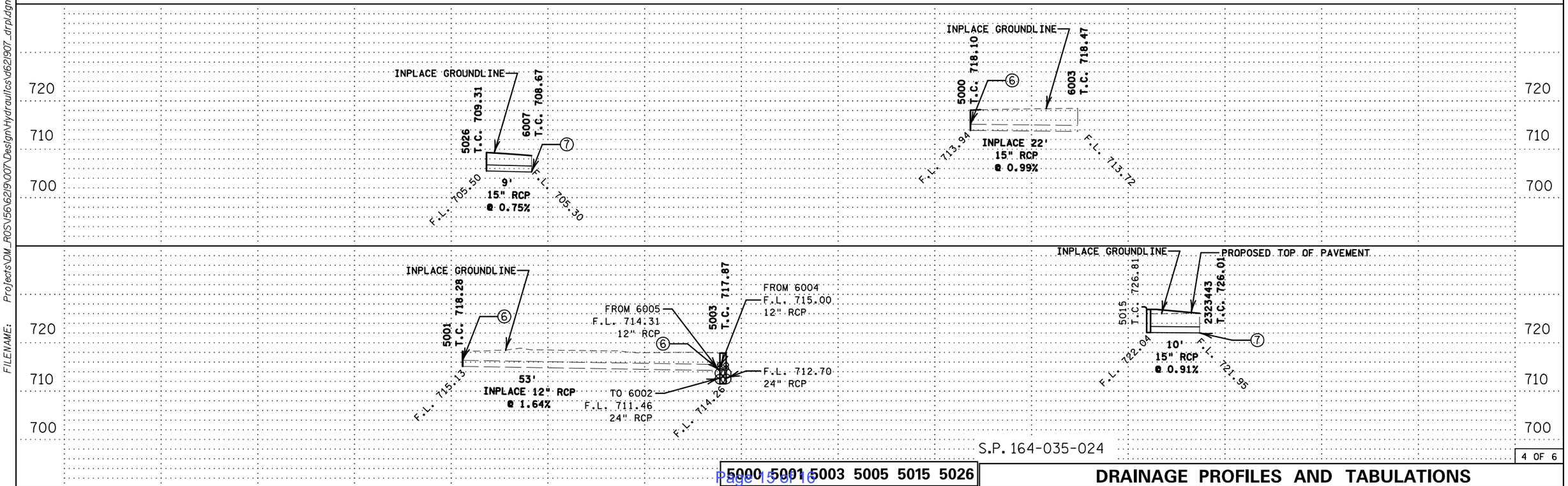

S.P. 164-035-024

4 OF 6

5000 5001 5003 5005 5015 5026

DRAINAGE PROFILES AND TABULATIONS

DRAWN BY: LJR | CHECKED BY: RE | CERTIFIED BY _____ LICENSED PROFESSIONAL ENGINEER LIC. NO. 23720 DATE _____

STATE PROJ. NO. 6219-07 (T.H. 156) SHEET NO. 109 OF 125 SHEETS

PLOTTED/REVISED: 31-MAR-2021
DISTRICT *: Metro
IPLOT NAME: d62l907_drp4
FILENAME: Projects\DM_R0SV\56\62l9\007\Design\Hydraul\csv\62l907_drpl.dgn

PLOTTED/REVISED: 31-MAR-2021

DRAINAGE TABULATION (THIS SHEET ONLY)

STRUCTURE NO.		STRUCTURE LOCATION				DRAINAGE STRUCTURES									
							PAY HEIGHT							CONNECT TO EXISTING STORM SEWER	REMARKS
FLOWS FROM	FLOWS TO	ALIGN.	STATION	OFFSET		TYPE	60-4020	120-4020	CASTING ASSEMBLY TYPE ①	STEPS REQ'D ②	TOP OF CASTING ELEV.	OUTLET ELEV.	INLET ELEV. ③		
							LIN FT	LIN FT						EACH	
5002	6008	EBCONCORD_1	21+72.67	4.0'	RT				A - 7D		717.83				(A) ④
55002	6008	EBCONCORD_1	21+72.74	0.2'	RT	MH		10		YES		707.99	695.37	1	(A) ⑤
5003	2390164	EBCONCORD_1	21+43.88	39.4'	LT				CITY ⑦		717.87				(B) ④
55003	2390164	EBCONCORD_1	21+43.90	40.7'	LT	MH	6.5			YES		711.46	710.82	1	(B) ⑤
TOTALS							6.5	10	2					2	

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③ INLET ELEVATION AT DOWN-STREAM STRUCTURE.
④ CENTER OF CASTING.
⑤ CENTER OF STRUCTURE.
⑥ CONNECT INTO EXISTING STORM SEWER.
⑦ SEE SHEETS 112 - 115 FOR CITY OF ST. PAUL STANDARD PLATES.

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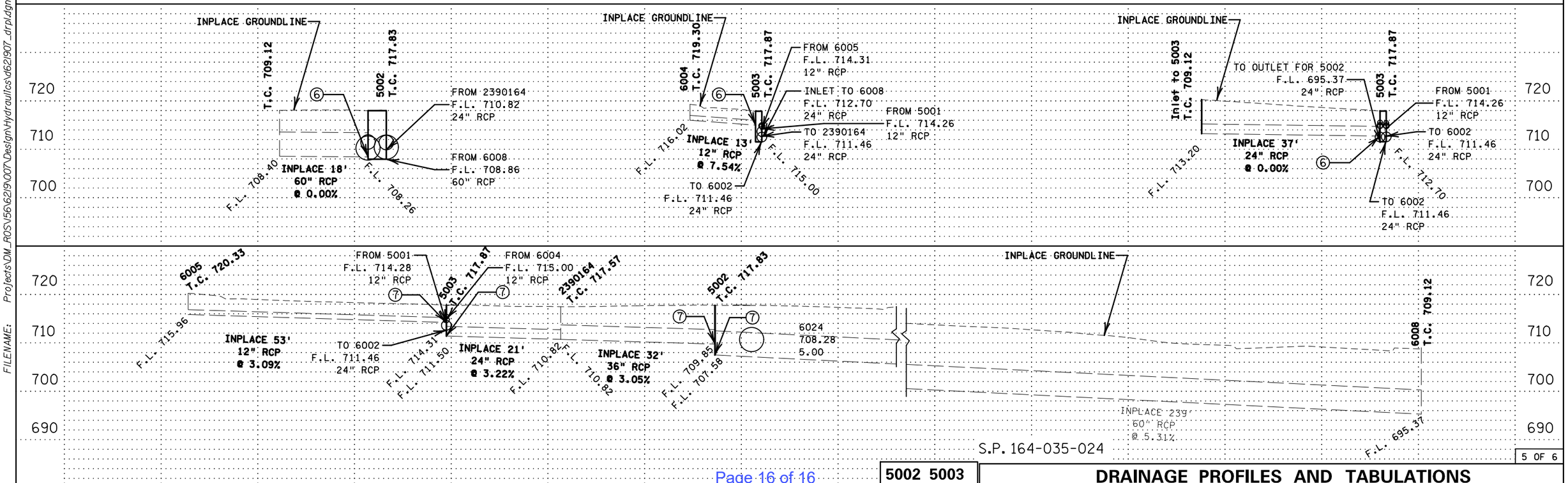

DISTRICT *: Metro
IPLOT NAME: d62l907_drp5
FILENAME: Projects\DM_R05V56\62l9\007\Design\Hydraul\csv\62l907_drpl.dgn

S.P. 164-035-024

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5002 5003

DRAINAGE PROFILES AND TABULATIONS

DRAWN BY: LJR | CHECKED BY: RE | CERTIFIED BY _____ LICENSED PROFESSIONAL ENGINEER LIC. NO. 23720 DATE _____

STATE PROJ. NO. 6219-07 (T.H. 156) SHEET NO. 110 OF 125 SHEETS

S.P. 6219-07 Agency Agreement 1046020 with the City of Saint Paul

Estimate Table

PAYITEM	DESCRIPTION	UNIT	EST. UNIT COST	TOTAL EST. QUANTITY	TOTAL COST
2104.502	Remove casting	EACH	$ 239.73	13	$ 3,116.49
2104.602	Relocate street light	EACH	$ 1,100.00	2	$ 2,200.00
2503.503	15" RC pipe sewer Design 3006 Class III	LIN FT	$ 47.82	15	$ 717.30
2503.602	Connect to existing storm sewer	EACH	$ 874.55	1	$ 874.55
2506.502	Casting assembly	EACH	$ 874.74	14	$ 12,246.36
2506.502	Adjust frame and ring casting	EACH	$ 492.40	14	$ 6,893.60
2506.503	Construct drainage structure Design 48-4020	LIN FT	$ 482.65	17.2	$ 8,301.58
2506.503	Construct drainage structure Design 60-4020	LIN FT	$ 693.62	6.5	$ 4,508.53
2506.602	Connect into existing drainage structure	EACH	$ 874.55	1	$ 874.55
SUB TOTAL					$ 39,732.96
	MnDOT Design	LUMP SUM	3.0%		$ 1,191.99
	MnDOT Construction Adminstration/Inspection	LUMP SUM	8.0%		$ 3,178.64
GRAND TOTAL					**$ 44,103.59**