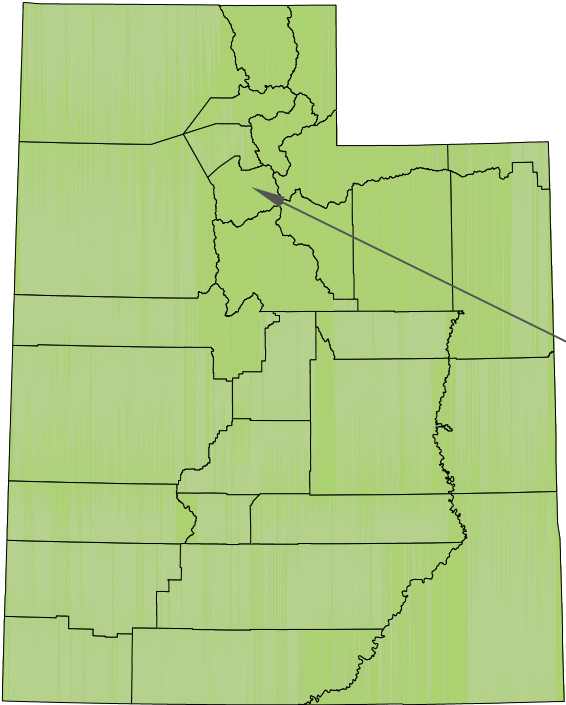
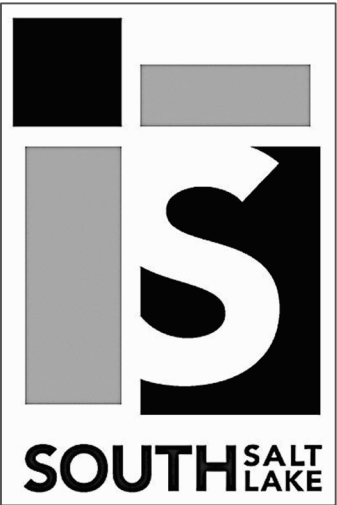


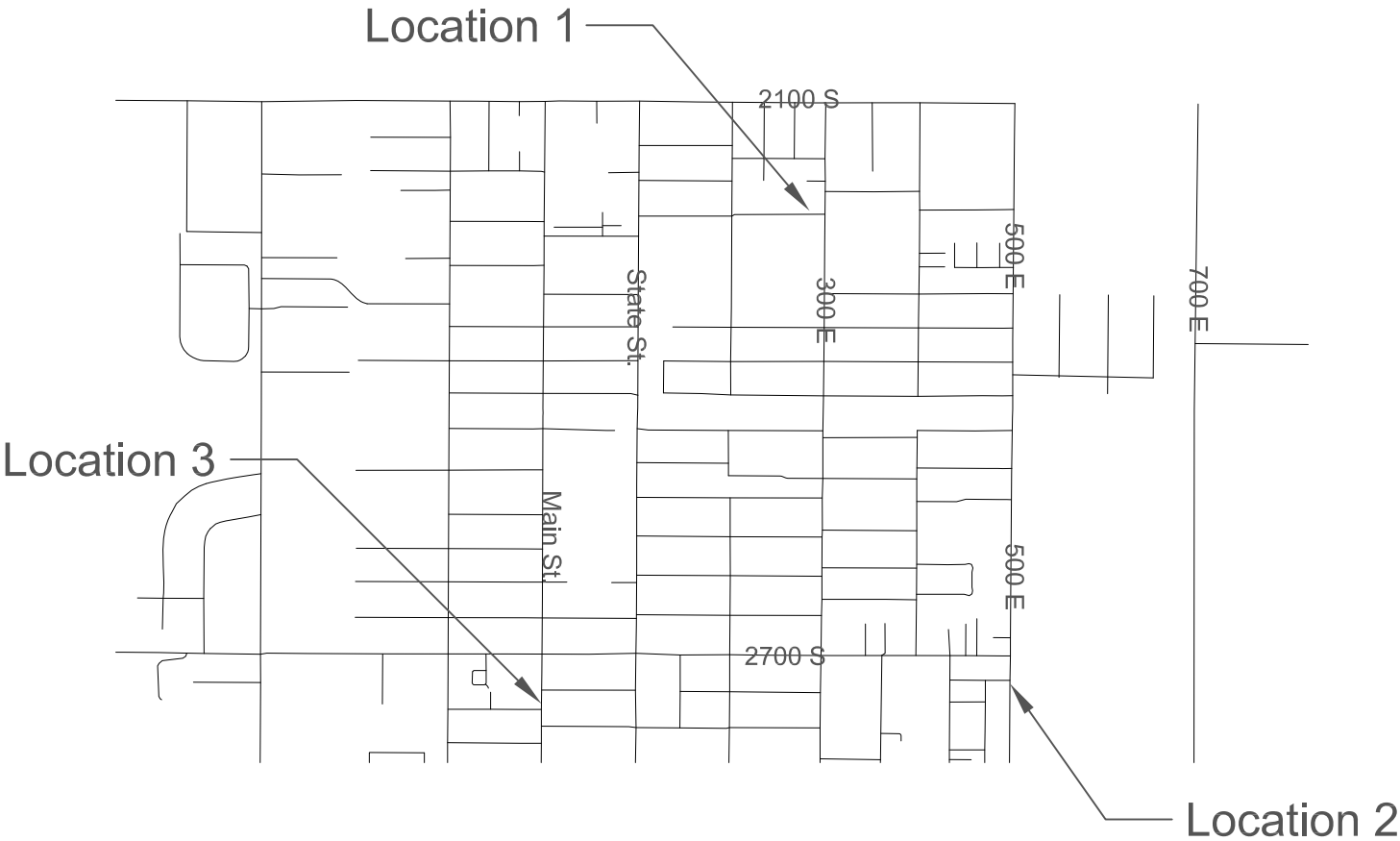
# 2021 South Salt Lake City Stormdrain Lining Project (Multiple Locations)



Project Location



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C 4.1	Box Bottom Schedule
C 4.2	Box Bottom Detail



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Stormwater Division Manager  
ctalbot@sslc.gov  
385-315-4377

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**SOUTH SALT LAKE  
ENGINEERING  
DEPARTMENT**

220 E MORRIS AVENUE  
SOUTH SALT LAKE CITY, UT 84115

2021 SOUTH SALT LAKE  
STORMDRAIN LINING PROJECT  
(MULTIPLE LOCATIONS)

COVER PAGE

SHEET  
C 0.0  
DATE  
December 1, 2021







GENERAL NOTES


1. ALL MATERIALS, WORKMANSHIP, AND CONSTRUCTION OF SITE IMPROVEMENTS SHALL MEET OR EXCEED THE LATEST EDITION OF THE MANUAL OF STANDARD PLANS AND MANUAL OF STANDARD SPECIFICATIONS PREPARED BY THE UTAH CHAPTER OF THE AMERICAN PUBLIC WORKS ASSOCIATION UNLESS OTHERWISE NOTED. SUPPLEMENTAL SPECS REPLACE APWA SPECIFICATIONS AND APPLICABLE STATE AND FEDERAL REGULATIONS. WHERE THERE IS CONFLICT BETWEEN THESE PLANS AND SPECIFICATIONS, OR ANY APPLICABLE STANDARDS, THE HIGHER QUALITY STANDARD SHALL APPLY. ALL WORK WITHIN PUBLIC R.O.W. OR EASEMENTS SHALL BE INSPECTED AND APPROVED BY THE SOUTH SALT LAKE ENGINEERING INSPECTOR.
2. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES, AS SHOWN ON THESE PLANS, IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED UPON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE LOCAL UTILITY LOCATION CENTER AT LEAST 48 HOURS BEFORE ANY EXCAVATION (IF NECESSARY) TO REQUEST EXACT FIELD LOCATIONS OF THE UTILITIES. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL VERIFY PERTINENT LOCATIONS AND ELEVATIONS, ESPECIALLY AT THE CONNECTION POINTS AND AT POTENTIAL UTILITY CONFLICTS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES THAT CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THESE PLANS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM ALL APPLICABLE AGENCIES. THE CONTRACTOR SHALL NOTIFY THE CITY OF SOUTH SALT LAKE AT LEAST **48** HOURS PRIOR TO THE START OF ANY EARTH DISTURBING ACTIVITY, OR CONSTRUCTION ON ANY AND ALL PUBLIC IMPROVEMENTS.
4. THE CONTRACTOR SHALL COORDINATE AND COOPERATE WITH THE CITY OF SOUTH SALT LAKE AND PROPERTY OWNERS THAT MAY BE IMPACTED BY THE WORK DURING CONSTRUCTION AND THE ASSURE THAT THE WORK IS ACCOMPLISHED IN A TIMELY FASHION AND WITH A MINIMUM DISRUPTION OF SERVICE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL PARTIES AFFECTED BY ANY DISRUPTION OF ANY UTILITY SERVICE.
5. THE CONTRACTOR SHALL HAVE ONE (1) SIGNED COPY OF THE APPROVED PLANS, ONE (1) COPY OF THE APPROPRIATE STANDARDS AND SPECIFICATIONS, AND A COPY OF ANY PERMITS AND EXTENSION AGREEMENTS NEEDED FOR THE JOB ON-SITE AT ALL TIMES.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ASPECTS OF SAFETY INCLUDING, BUT NOT LIMITED TO, CONFINED SPACE, EXCAVATION, TRENCHING, SHORING, TRAFFIC CONTROL, AND SECURITY.
7. IF DURING THE CONSTRUCTION PROCESS CONDITIONS ARE ENCOUNTERED BY THE CONTRACTOR, HIS SUBCONTRACTORS, OR OTHER AFFECTED PARTIES, WHICH COULD INDICATE A SITUATION THAT IS NOT IDENTIFIED IN THE PLANS OR SPECIFICATIONS, THE CONTRACTOR SHALL CONTACT THE ENGINEER IMMEDIATELY.
8. ALL REFERENCES TO ANY PUBLISHED STANDARDS SHALL REFER TO THE LATEST REVISION OF SAID STANDARD, UNLESS SPECIFICALLY STATED OTHERWISE.

9. THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN, IN ACCORDANCE WITH THE MUTCD TO THE APPROPRIATE RIGHT-OF-WAY AUTHORITY (CITY, COUNTY, OR STATE) FOR APPROVAL PRIOR TO ANY CONSTRUCTION ACTIVITIES WITHIN, OR AFFECTING, THE RIGHT-OF-WAY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ANY AND ALL TRAFFIC CONTROL DEVICES AS MAY BE REQUIRED BY THE CONSTRUCTION ACTIVITIES.
10. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL LABOR AND MATERIALS NECESSARY FOR THE COMPLETION OF THE INTENDED IMPROVEMENTS SHOWN ON THESE DRAWINGS OR DESIGNATED TO BE PROVIDED, INSTALLED, CONSTRUCTED, REMOVED AND RELOCATED UNLESS SPECIFICALLY NOTED OTHERWISE.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING ROADWAYS FREE AND CLEAR OF ALL CONSTRUCTION DEBRIS AND DIRT TRACKED FROM THE SITE.
12. DIMENSIONS FOR LAYOUT AND CONSTRUCTION ARE NOT TO BE SCALED FROM ANY DRAWING. IF PERTINENT DIMENSIONS ARE NOT SHOWN, CONTACT THE ENGINEER FOR CLARIFICATION, AND ANNOTATE THE DIMENSION ON THE AS-BUILT RECORD DRAWINGS.
13. ALL STRUCTURAL EROSION CONTROL MEASURES SHALL BE INSTALLED, AT THE LIMITS OF CONSTRUCTION, PRIOR TO ANY OTHER GROUND-DISTURBING ACTIVITY. ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED IN GOOD REPAIR BY THE CONTRACTOR, UNTIL SUCH TIME AS THE ENTIRE DISTURBED AREAS ARE STABILIZED WITH HARD SURFACE OR LANDSCAPING.
14. ALL OPERATIONS CONDUCTED ON THE PREMISES, INCLUDING THE WARMING UP, REPAIR, APPROVAL, DEPARTURE OR RUNNING OF TRUCKS, EARTH MOVING EQUIPMENT, CONSTRUCTION EQUIPMENT AND ANY OTHER ASSOCIATED EQUIPMENT SHALL GENERALLY BE LIMITED TO THE PERIOD BETWEEN 7:00 AM AND 10:00 PM EVERYDAY UNLESS OTHERWISE APPROVED BY THE CITY AND THE SALT LAKE COUNTY DEPARTMENT OF HEALTH.
15. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE ALL UTILITY RELOCATIONS CONSISTENT WITH THE CONTRACTOR'S SCHEDULE FOR THIS PROJECT, WHETHER SHOWN OR NOT SHOWN AS IT RELATES TO THE CONSTRUCTION ACTIVITIES CONTEMPLATED IN THESE PLANS.
16. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL TEMPORARY POWER, TELEPHONE AND WATER THE THE SITE, PAYING ALL FEES EXCLUDING TAP FEES AND SYSTEM DEVELOPMENT FEES, REFERRING TO ARCHITECTURAL PLANS FOR THE EXACT LOCATION AND DIMENSIONS OF BUILDING EXITS, RAMPS, TRUCK DOCKS, AND UTILITY ENTRANCE LOCATIONS.
17. CONTRACTOR TO MAINTAIN ALL SHRUB AND GROUND COVER AREAS FREE FROM WEEDS AND UNDESIRABLE VEGETATION THROUGH MAINTENANCE PERIOD.

INSPECTION, QUALITY CONTROL

1. THE INSPECTION AND QUALITY CONTROL SHALL BE IN COMPLIANCE WITH THE CURRENT APWA SPECIFICATIONS.

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220 E MORRIS AVENUE  
SOUTH SALT LAKE CITY, UT 84115

2021 SOUTH SALT LAKE  
STORMDRAIN LINING PROJECT  
(MULTIPLE LOCATIONS)

GENERAL NOTES

SHEET

C 0.1

DATE




December 1, 2021







Construction Notes

- 1. 2017 Edition APWA Standard Specification shall govern the lining materials, procedures, and applications, unless noted otherwise;
- 2. Schedule 80 lining material shall be used;
- 3. Refer to APWA Section 33 05 23.40 for lining application.

Legend

-  SSLC\_Stormwater\_Inlet
-  SSLC\_Stormwater\_MH
-  SSLC\_Stormwater\_Pipe

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**SOUTH SALT LAKE  
ENGINEERING  
DEPARTMENT**

220 E MORRIS AVENUE  
SOUTH SALT LAKE CITY, UT 84115

2021 SOUTH SALT LAKE  
STORMDRAIN LINING PROJECT  
(MULTIPLE LOCATIONS)

300 E WENTWORTH

SHEET  
C 1.1  
DATE  
December 1, 2021












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Legend

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-  SSLC\_Stormwater\_MH
-  SSLC\_Stormwater\_Pipe

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SOUTH SALT LAKE CITY, UT 84115

2021 SOUTH SALT LAKE  
STORMDRAIN LINING PROJECT  
(MULTIPLE LOCATIONS)

500 E 2700 S TO MILLCREEK




SHEET  
C 1.2  
DATE  
December 1, 2021







Construction Notes

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Legend

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-  SSLC\_Stormwater\_MH
-  SSLC\_Stormwater\_Pipe

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220 E MORRIS AVENUE  
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2021 SOUTH SALT LAKE  
STORMDRAIN LINING PROJECT  
(MULTIPLE LOCATIONS)

500 E 2700 S TO MILLCREEK

SHEET  
C 1.3  
DATE  
December 1, 2021





Construction Notes

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Legend

- SSLC\_Stormwater\_Inlet
- SSLC\_Stormwater\_MH
- SSLC\_Stormwater\_Pipe

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SOUTH SALT LAKE CITY, UT 84115

2021 SOUTH SALT LAKE  
STORMDRAIN LINING PROJECT  
(MULTIPLE LOCATIONS)

500 E 2700 S TO MILLCREEK

SHEET  
C 1.4  
DATE  
December 1, 2021



Construction Notes

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Legend

- SSLC\_Stormwater\_Inlet
- SSLC\_Stormwater\_MH
- SSLC\_Stormwater\_Pipe

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ENGINEERING  
DEPARTMENT**

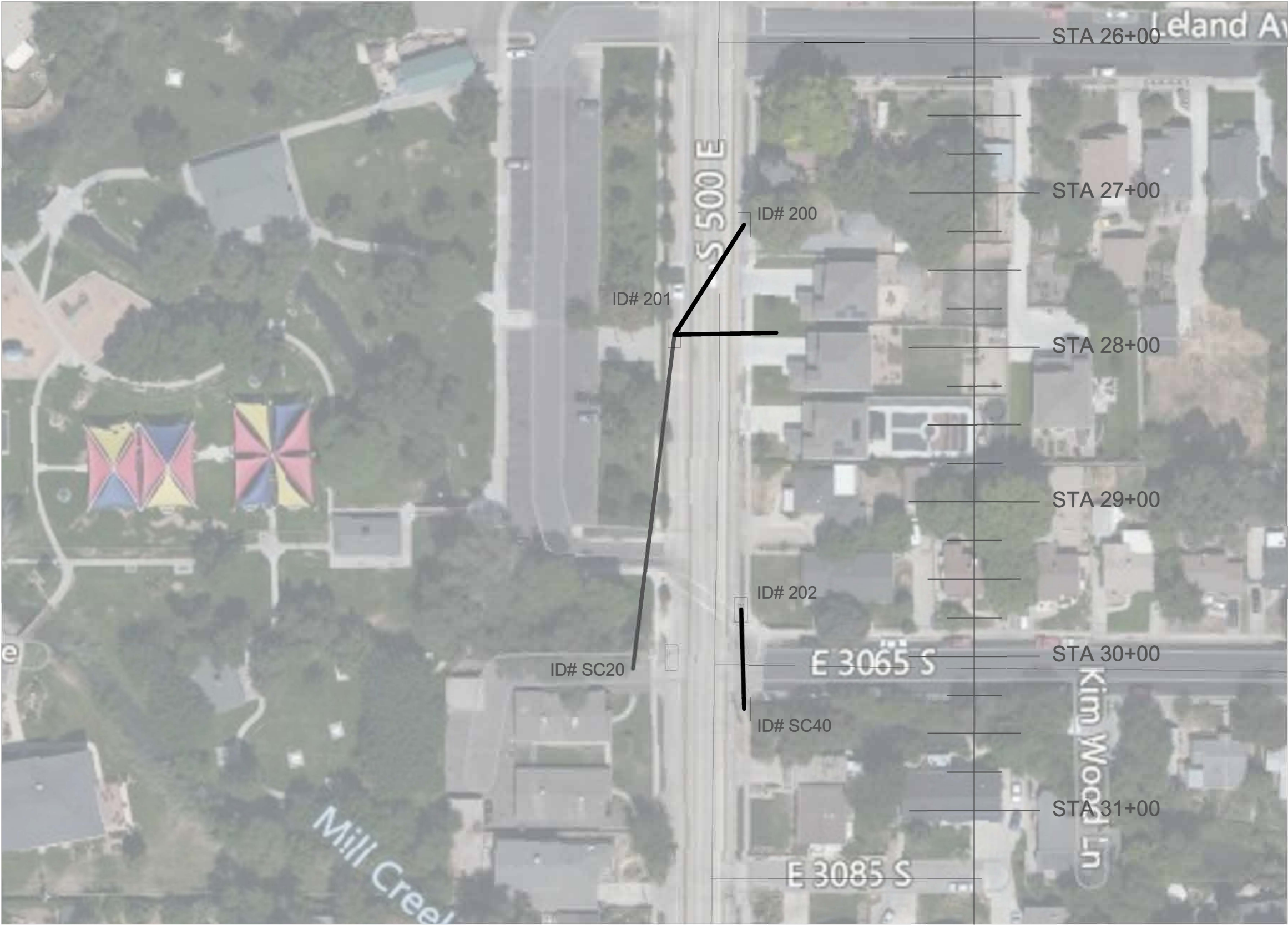
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2021 SOUTH SALT LAKE  
STORMDRAIN LINING PROJECT  
(MULTIPLE LOCATIONS)

500 E 2700 S TO MILLCREEK

SHEET  
C 1.5  
DATE  
December 1, 2021












Construction Notes

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Legend

-  SSLC\_Stormwater\_Inlet
-  SSLC\_Stormwater\_MH
-  SSLC\_Stormwater\_Pipe

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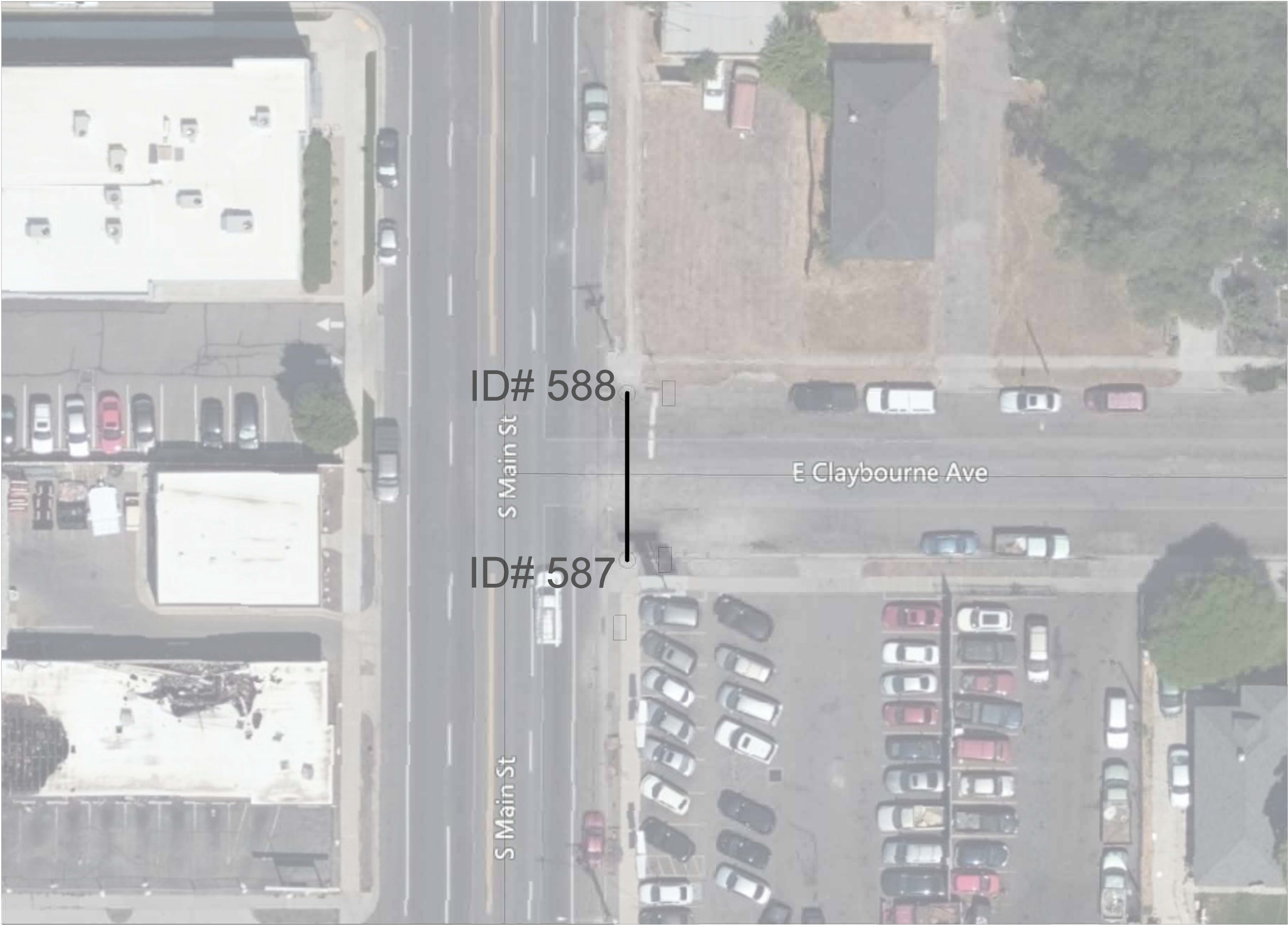
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2021 SOUTH SALT LAKE  
STORMDRAIN LINING PROJECT  
(MULTIPLE LOCATIONS)

500 E 2700 S TO MILLCREEK

SHEET  
C 1.6  
DATE  
December 1, 2021












Construction Notes

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Legend

-  SSLC\_Stormwater\_Inlet
-  SSLC\_Stormwater\_MH
-  SSLC\_Stormwater\_Pipe

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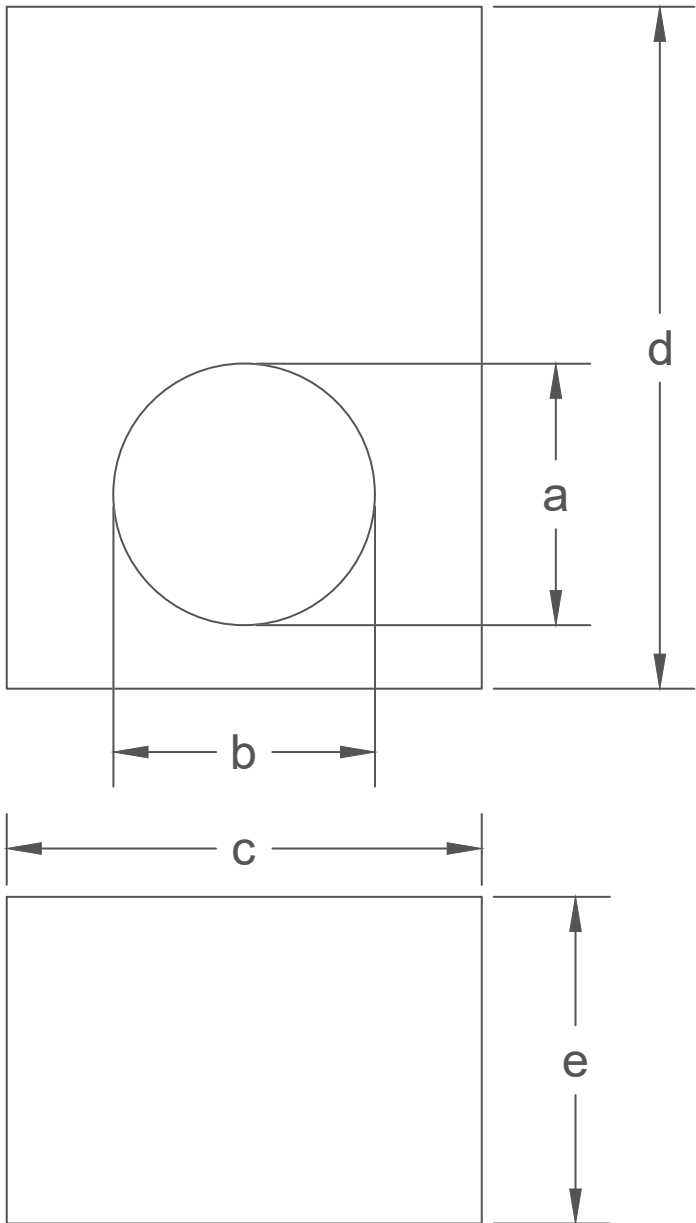
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2021 SOUTH SALT LAKE  
STORMDRAIN LINING PROJECT  
(MULTIPLE LOCATIONS)

MAIN ST. CLAYBOURNE

SHEET  
C 1.7  
DATE  
December 1, 2021



BOX BOTTOM

MH, Box, and Pipe Schedule							
ID#	Stream	Type	a	b	c	d	e
9	W	CM	12	18	36	55	36
9	N	Concrete	12	12	36	55	36
10	E	CM	12	18	36	28	36
425	S	Concrete	12	12	38	49	44
110	S	Concrete	12	18	44	25	62
460	N	Concrete	14	16	44	58	16.5
460	S	CM	12	18	44	58	16.5
461	N	CM	12	18	44	58	16
461	W	CM	12	18	44	58	16
461	S	CM	12	18	44	58	16
113	E	CM	12	18	48	36	23
462	S	CM	12	18	44	unknown	16
462	N	CM	12	18	44	unknown	16
462	W	CM	12	18	44	unknown	16
114	E	CM	12	18	49	unknown	22
463	N	CM	12	18	44	50	16
463	S	CM	12	18	44	50	16
464	N	CM	12	18	44	unknown	16
464	S	CM	12	18	44	unknown	16

Construction Notes

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- Schedule 80 lining material shall be used;
- Refer to APWA Section 33 05 23.40 for lining application.
- Shown inner dimensions are for bidding purpose only. Contractor shall verify all dimensions onsite.

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 **SOUTH SALT LAKE  
ENGINEERING  
DEPARTMENT**  
220 E MORRIS AVENUE  
SOUTH SALT LAKE CITY, UT 84115

**2021 SOUTH SALT LAKE  
STORMDRAIN LINING PROJECT  
(MULTIPLE LOCATIONS)**

**SCHEDULE**

SHEET  
**C 3.1**  
DATE  
**December 1, 2021**



MH, Box, and Pipe Schedule (Cont.)							
ID#	Stream	Type	a	b	c	d	e
465	N	CM	12	18	66	45	16
465	S	CM	12	18	66	45	16
457	N	CM	12	18	72	65	84
457	S	Concrete	18	18	72	65	84
466	N	CM/Con	18	18	44	48	16
466	W	CM	14	17	44	48	16
466	E	CM	12	18	44	48	16
467	E	CM	14	17	48	40	22
119	W	CM	12	18	49	32	23
122	E	Concrete	21	21	44	55	26
468	W	Concrete	21	21	44	54	72
468	N	Concrete	21	21	44	54	72
486	S	Concrete	21	21	45	47	84
200	S	LINER?	10	14	48	31	23
201	N	CM	10	14	50	36	22
201	S	CM	12	18	50	36	22
SC20	N	Unknown	12	18	unknown	unknown	unknown
202	S	CM	15	15	36	26	24
SC40	N	Unknown	15	15	unknown	unknown	unknown
587	N	CM	19	19	30	56	36
588	S	CM	19	19	30	75	36

Pipe Length			
Start ID	End ID	Dimensions (in x in)	Length (ft)
9	425	12 x 12	22.2
9	10	12 x 18	57
110	460	12 x 18	206
460	461	12 x 18	145
461	113	12 x 18	15
461	462	12 x 18	218
462	114	12 x 18	11
462	463	12 x 18	172
468	486	12 x 18	198
468	122	12 x 18	40
463	464	12 x 18	195
464	465	12 x 18	165
465	457	12 x 18	18
457	466	19 x 19	170
466	119	12 x 18	31
466	467	14 x 17	11
200	201	10 x 14	84
201	SC20	12 x 18	198
202	SC40	15 x 15	70
587	588	19 x 19	42
Sum		12 x 12	22
		12 x 18	1669
		14 x 17	11
		10 x 14	84
		15 x 15	70
		19 x 19	212

Construction Notes

1.
- 2017 Edition APWA Standard Specification shall govern the lining materials, procedures, and applications, unless noted otherwise;
2.
- Schedule 80 lining material shall be used;
3.
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4.
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220 E MORRIS AVENUE  
SOUTH SALT LAKE CITY, UT 84115

2021 SOUTH SALT LAKE  
STORMDRAIN LINING PROJECT  
(MULTIPLE LOCATIONS)

SCHEDULE

SHEET  
C 3.2  
DATE  
December 1, 2021

Box Bottom Schedule (Inside dimensions)		
ID#	Length (in)	Width (in)
460	66	16
461	66	16
462	72	84
463	72	84
464	44	16
465	44	16
466	44	16
467	48	22

Construction Notes

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2.
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3.
- Refer to APWA Section 33 05 23.40 for lining application.
4.
- Refer to Sheet 3.1 for Box Bottom figure.



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SCALE

DATE

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August 20, 2021

SOUTH SALT LAKE  
ENGINEERING  
DEPARTMENT

220 E MORRIS AVENUE  
SOUTH SALT LAKE CITY, UT 84115

2021 SOUTH SALT LAKE  
STORMDRAIN LINING PROJECT  
(MULTIPLE LOCATIONS)

BOX BOTTOM SCHEDULE

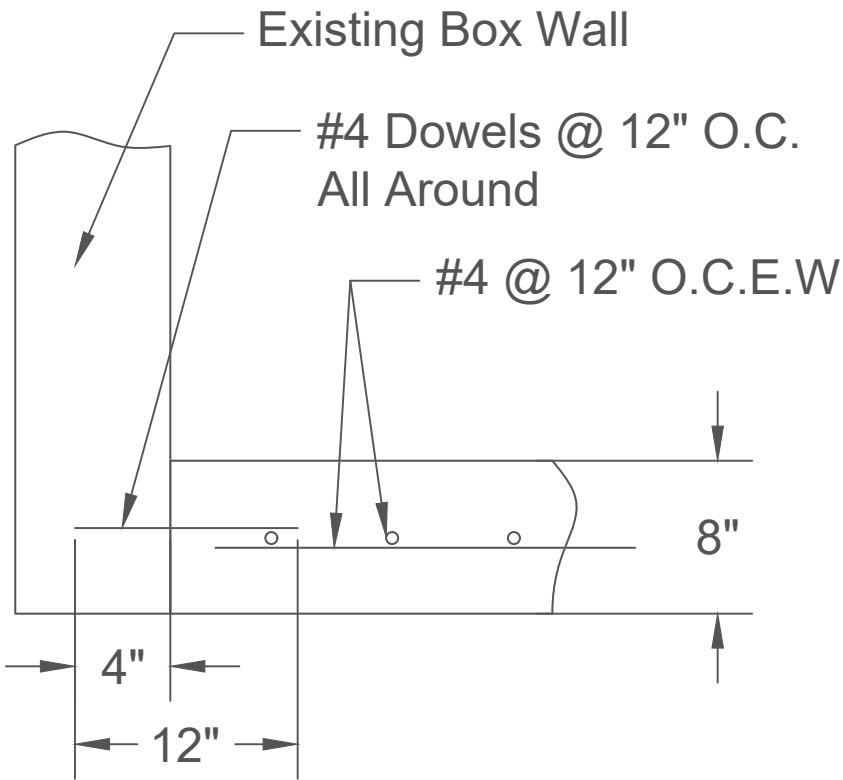
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C 4.1

DATE

December 1, 2021





**DETAIL**

STRUCTURAL AND CONCRETE NOTES

CONCRETE

- 1. ALL CONCRETE CONSTRUCTION TO CONFORM TO ACI 318-14 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE".
- 2. REINFORCED CONCRETE 28-DAY COMPRESSIVE STRENGTH SHALL MEET REQUIREMENTS BELOW:  
CONCRETE: 4,000 PSI
- 3. USE CEMENT CONFORMING TO ASTM C150, TYPE V, LOW ALKALI.

STEEL REINFORCEMENT

- 1. PROVIDE EPOXY-COATED STEEL REINFORCEMENT CONFORMING TO ASTM A615 GRADE 60
- 2. CONCRETE COVER SHALL BE THE CLEAR DISTANCE BETWEEN REBAR AND CONCRETE SURFACE:  
PROVIDE THE FOLLOWING CONCRETE COVER:  
CAST AGAINST AND PERMANENTLY IN CONTACT WITH GROUND: 3 INCHES

POST-INSTALLED ANCHOR

- 1. HILTI-HY 200-A SHALL BE USED AS THE EPOXY MATERIAL FOR POST-INSTALLED ANCHORS. ANCHORS SHALL BE INSTALLED AT AN AMBIENT TEMPERATURE ABOVE 41°F.

FOUNDATION

- 1. PROVIDE GENERAL COMPACTION
- 2. COMPACTION PROCESS SHALL BE INSPECTED BY SOUTH SALT LAKE CITY ENGINEERING INSPECTORS

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**SOUTH SALT LAKE  
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220 E MORRIS AVENUE  
SOUTH SALT LAKE CITY, UT 84115

2021 SOUTH SALT LAKE  
STORMDRAIN LINING PROJECT  
(MULTIPLE LOCATIONS)

BOX BOTTOM DETAIL

SHEET  
C 4.2

DATE  
December 1, 2021