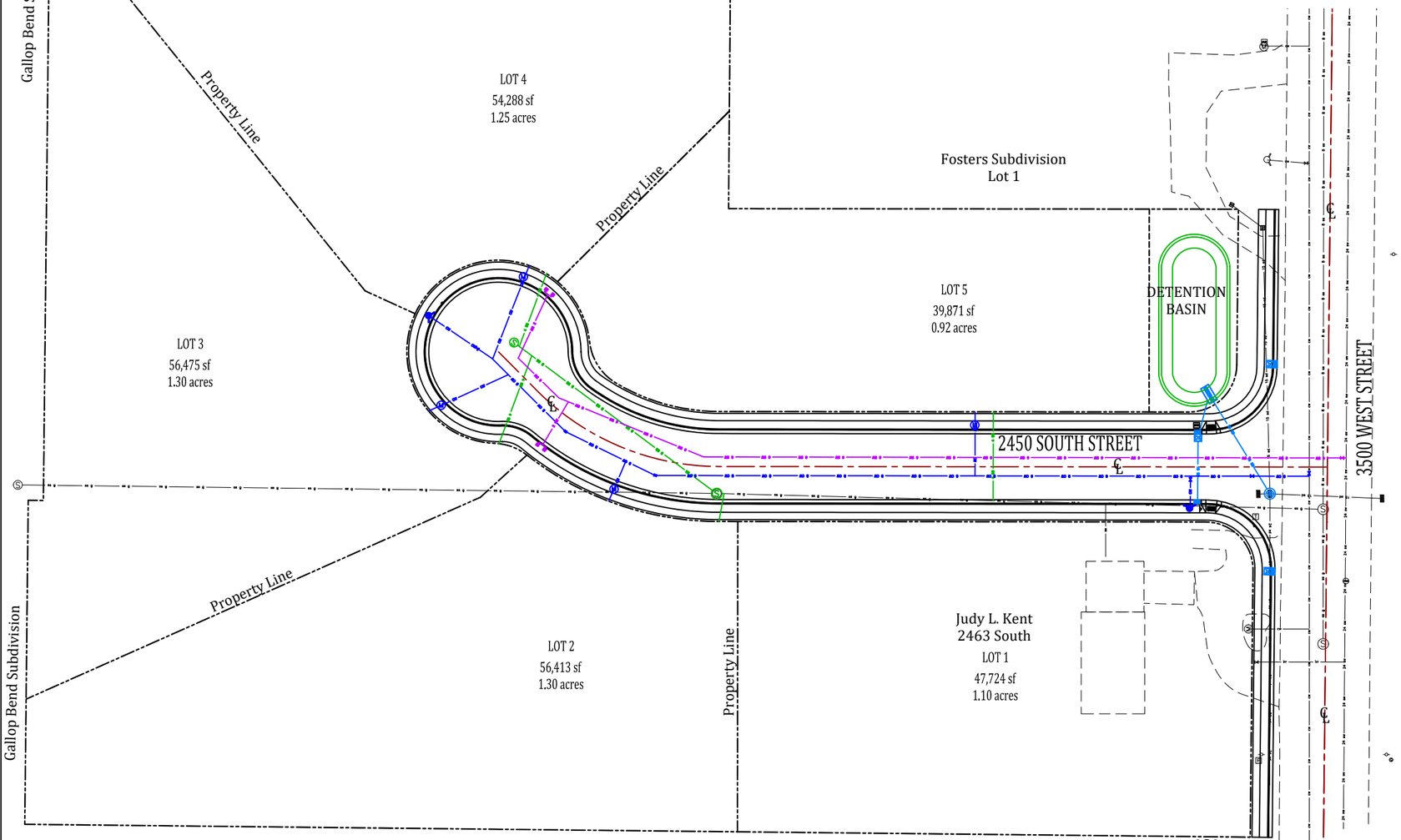
KENT SUBDIVISION NO. 2
IMPROVEMENT DRAWINGS
Weber County, Utah



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19 of 20	DETAILS: STORM DRAIN
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LICENSED PROFESSIONAL ENGINEER
08-30-22
LYNN D. WALL
No. 182598
08-30-2022
STATE OF UTAH

Developer:
Judy Kent
Contact:
Tony Kent: 385-502-1184

Approved for Construction
_____
Weber City Engineer
Date: _____

Project:
KENT SUBDIVISION NO. 2
IMPROVEMENT DRAWINGS
WEBER COUNTY, UTAH

Title:
COVER SHEET

Date:
30 AUGUST 2022

Sheet 1 of 20

Prepared By:
Summers Engineering Collective
- Jen Summers -
Summers.eng.collective@gmail.com

#	Date:	Revision:

ABBREVIATIONS USED IN DRAWINGS

adj	adjust	dwg	drawing	hp	high point	pr	proposed	tbc	top back of curb
arv	air release valve	elec	electrical	in	inch	prc	point of reverse curve	tele	telephone
bw	back of walk	eg	existing grade	inv	invert	prv	pressure reducing valve	toa	top of asphalt
bvce	beginning vertical curve elev.	elev	elevation	irr	irrigation	pt	point of tangency	toe	toe of slope
bvcs	beginning vertical curve station	eoc	edge of concrete	lf	linear foot	pue	public utility easement	top	top of slope
bw	both ways	ep	edge of pavement	lip	lip of curb	pvc	polyvinyl chloride pipe	tow	top of wall
cb	catch basin	evce	end vertical curve elev.	lt	left	r	radius	tow	top of walk
chord	chord bearing	evcs	end vertical curve station	max	maximum	rc	rebar & cap	typ	typical
cl	centerline	ew	each way	mh	manhole	row	right of way	w	water
cmp	corrugated metal pipe	exist	existing	min	minimum	rt	right	wm	water meter
co	clean out	ff	finished floor elevation	mon	monument	sd	storm drain	wmh	water manhole
conc	concrete	fg	finished grade	nts	not to scale	sec cor	section corner	wv	water valve
conc	concrete	fh	fire hydrant	oc	on center	ser	south end radius		
cw	culinary water	fl	flow line	ohp	over head power	ss	sanitary sewer		
da	delta angle	fo	fiber optic	pc	point of curvature	ssmh	sanitary sewer manhole		
det	detail	ft	foot	pi	point of intersection	sta	station		
dia	diameter	gb	grade break	pl	property line	std	standard		
dip	ductile iron pipe	hdpe	high density poly ethylene	pp	power pole	sw	secondary water		

GENERAL CONSTRUCTION NOTES

1. The utilities shown on the drawings are for informational purposes only. The contractor shall locate all underground utilities, contact blue stakes and other applicable utilities prior to laying pipe within 200 feet of said utilities which may be exposed, damaged or crossed as shown on the drawings or as "blue staked". The contractor shall coordinate with the utility company to move the utility if necessary. The contractor shall not modify grade of project lines in order to go over and around existing utilities. The contractor shall pothole for the location of utilities prior to excavation.

2. The contractor shall review and verify all dimensions shown on the drawings.

3. The contractor shall be responsible to provide appropriate signing and barricading. All flagging, signage and barricades and all traffic control required shall be in compliance with the current "manual on uniform traffic control devices".

4. All public and private roadways must be cleaned daily, or as often as required, of all loose dirt, mud, gravel and all debris as a result of the construction work. This requirement shall apply continuously throughout the duration of the project and shall not be limited to normal construction working hours.

5. All dust on project site shall be controlled by sweeping and watering the construction area.

6. The contractor shall be completely responsible for the job site conditions during the course of construction, including safety of all persons and adjoining property. This requirement shall apply continuously throughout the duration of the project and not be limited to normal construction working hours.

7. Verify depth and location of all existing utilities prior to constructing any new utility lines. Notify project engineer of any discrepancies or conflicts prior to any connections being made.

8. The contractor shall be responsible for meeting all of the requirements established for safe trenching. (See OSHA and UOSHA requirements, latest editions).

9. The contractor shall contact and coordinate all utility connections with the utility owner.

10. All construction to comply with specifications contained herein and with local City, County and State standards and specifications.

UTILITY CONTACTS

TAYLOR WEST WEBER WATER IMPROVEMENT DISTRICT
2815 WEST 3300 SOUTH
WEST HAVEN, UT 84401
(801) 731-1668
RYAN ROGERS, GENERAL MANAGER

HOOPER IRRIGATION COMPANY
5375 SOUTH 5500 WEST
HOOPER, UT 84315
(801) 388-3956
DENNIS FLINDERS, SECONDARY WATER MANAGER

CENTRAL WEBER SEWER DISTRICT
2618 WEST PIONEER ROAD
OGDEN, UT 84404
(801) 731-3011

WEBER COUNTY ENGINEERING DEPARTMENT
2380 WASHINGTON BLVD
SUITE 240
OGDEN, UT 84401
(801) 399-8374

WEBER COUNTY FIRE DISTRICT
2023 WEST 1300 NORTH
FARR WEST, UT 84404
(801) 782-3580
BRANDON J. THUESON, FIRE MARSHAL

ROCKY MOUNTAIN POWER
1438 WEST 2550 SOUTH
OGDEN, UT 84401
(866) 221-7070

CAUTION NOTICE TO CONTRACTOR

The contractor is herewith instructed that the location and/or elevation of existing utilities as shown on these plans are based on records of the various utility companies and, where possible, measurements taken in the field. The information shown is not to be relied on as being exact or complete. The contractor is required to call the appropriate utility company as least 48 hours before any excavation to request exact field location of utilities. Is the sole responsibility of the contractor to relocate all existing utilities which conflict with the proposed improvements shown on the drawings.

The contractor shall assume sole and complete responsibility for job site conditions during the course of construction of this project, including safety of all persons and property. This requirement shall apply continuously and not be limited to the normal working hours; and the contractor shall defend, indemnify, and hold the owner and the engineer harmless from any and all liability, real or alleged, in connection with the performance of work on this project, excepting for liability arising from sole negligence of the owner or the engineer.

LEGEND AND SYMBOLS

- Centerline of road
- Contour line (1234)
- Curb & gutter
- Easement line
- Fence (x x x x x)
- Lot line
- Phase/boundary line
- Right of way line
- Section corner & line
- Culinary water manhole & pipe (WM, CW)
- Fiber optic box & line (FO, FO)
- Gas manhole & line (G, GAS)
- Irrigation manhole and pipe (IRR, IRR)
- Land drain manhole & pipe (LD, LD)
- Power pole and line (P, P)
- Sanitary sewer manhole & pipe (S, SS)
- Storm drain manhole & pipe (SD, SD)
- Telephone pedestal & line (T, TELE)
- Fire hydrant
- Storm drain catch basin
- Street sign
- Street light
- Water meter (M)
- Water valve

*Note: All existing features will be in a shaded line

CULINARY WATER NOTE:
All culinary water facilities shall meet the requirements of the Taylor-West Weber Water Improvement District. Standard Details and Construction Specifications are available upon request to taylorwestweberwater@msn.com or 801.731.1668. The District shall be notified at least 24 hours prior to any preconstruction meetings or construction activity.

LICENSED PROFESSIONAL ENGINEER
08-30-22
LYNN D. WALL
No. 182598
08-30-2022
STATE OF UTAH

CALL BEFORE YOU DIG.
IT'S FREE &
IT'S THE LAW.
811
(TOLL FREE)
1-800-662-4111
BLUE STAKES OF UTAH
UTILITY NOTIFICATION CENTER, INC.
www.bluestakes.org

Developer:
Judy Kent
Contact:
Tony Kent: 385-502-1184

Approved for Construction
_____
Weber City Engineer
Date: _____

Project:
KENT SUBDIVISION NO. 2
IMPROVEMENT DRAWINGS
WEBER COUNTY, UTAH

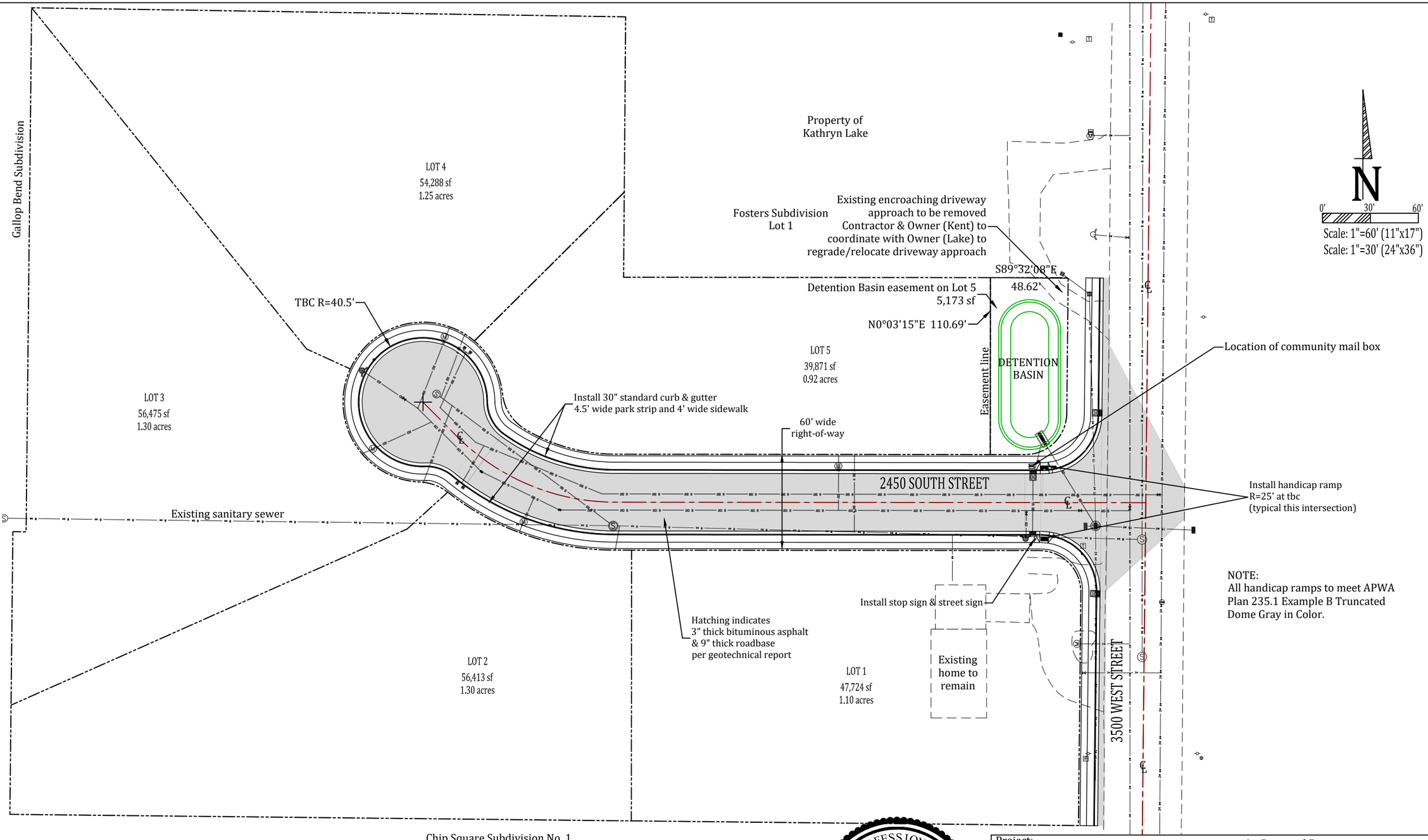
Title:
NOTES

Date:
30 AUGUST 2022

Sheet 2 of 20

Prepared By:
Summers Engineering Collective
- Jen Summers -
Summers.eng.collective@gmail.com

#	Date:	Revision:



Developer:
Judy Kent
Contact:
Tony Kent: 385-502-1184

Approved for Construction
_____
Weber City Engineer
Date: _____

LICENSED PROFESSIONAL ENGINEER
08-30-22
LYNN D. WALL
No. 182598
08-30-2022
STATE OF UTAH

Project:
KENT SUBDIVISION NO. 2
IMPROVEMENT DRAWINGS
WEBER COUNTY, UTAH

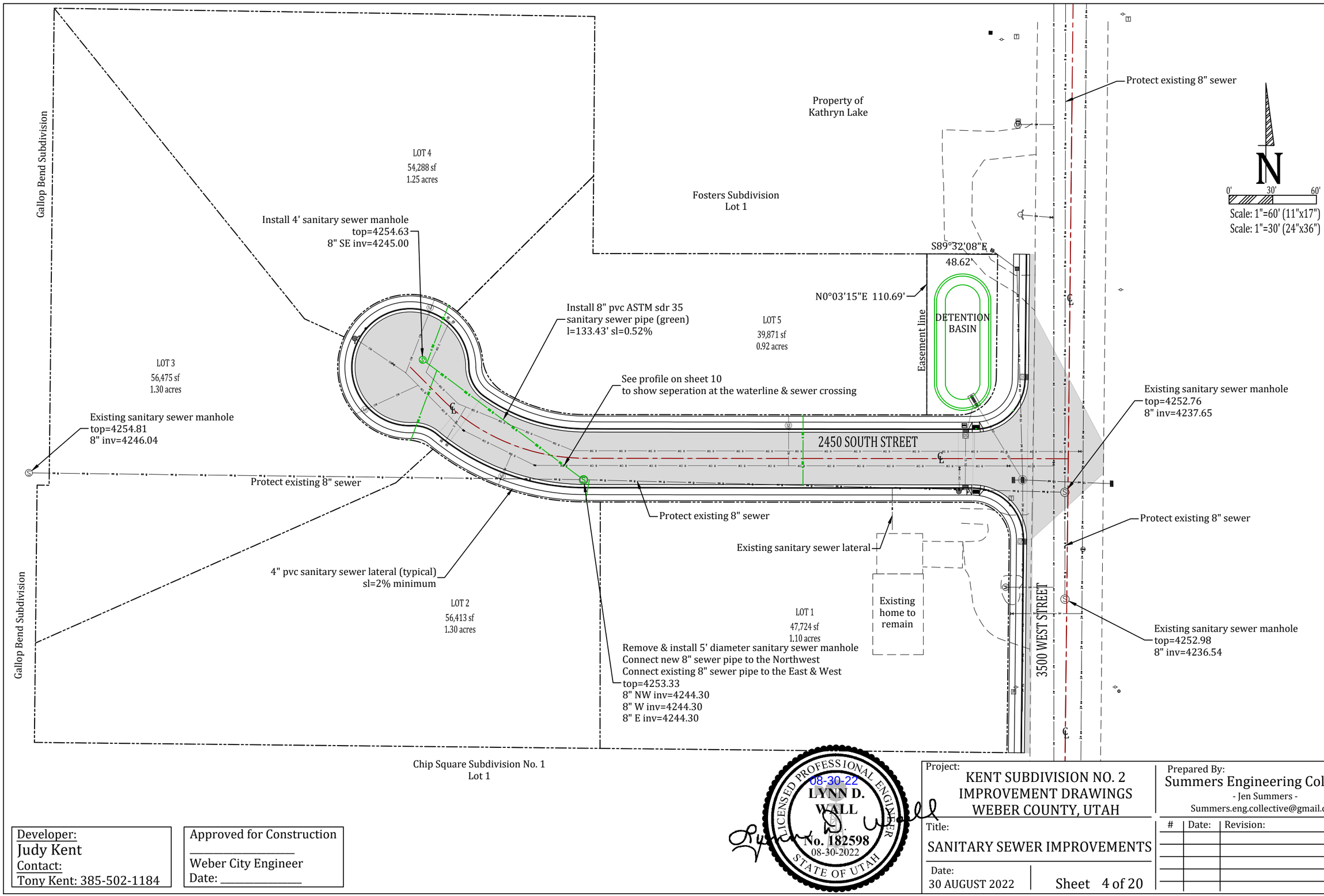
Title:
SITE PLAN

Date:
30 AUGUST 2022

Sheet 3 of 20

Prepared By:
Summers Engineering Collective
- Jen Summers -
Summers.eng.collective@gmail.com

#	Date:	Revision:



LICENSED PROFESSIONAL ENGINEER
08-30-22
LYNN D. WALL
No. 182598
08-30-2022
STATE OF UTAH

Developer:
Judy Kent
Contact:
Tony Kent: 385-502-1184

Approved for Construction
_____
Weber City Engineer
Date: _____

Project:
KENT SUBDIVISION NO. 2
IMPROVEMENT DRAWINGS
WEBER COUNTY, UTAH

Title:
SANITARY SEWER IMPROVEMENTS

Date:
30 AUGUST 2022

Sheet 4 of 20

Prepared By:
Summers Engineering Collective
- Jen Summers -
Summers.eng.collective@gmail.com

#	Date:	Revision:

Gallop Bend Subdivision

LOT 4
54,288 sf
1.25 acres

Property of
Kathryn Lake

Fosters Subdivision
Lot 1

Existing fire hydrant

N
0' 30' 60'
Scale: 1"=60' (11"x17")
Scale: 1"=30' (24"x36")

S89°32'08"E
48.62'

N0°03'15"E 110.69'

LOT 5
39,871 sf
0.92 acres

Easement line

DETENTION
BASIN

LOT 3
56,475 sf
1.30 acres

Install fire hydrant

See profile on sheet 10
to show seperation at the waterline & sewer crossing

2450 SOUTH STREET

Waterline connection
Cut in 14"x8" tee with 14" butterfly gate
valve FLG x MJ to tee

Install 8" gate valve

Install fire hydrant

Construct 1" CTS Poly pipe SDR 9
lateral and meter box (Taylor West
Weber Water typical)

Install 8" pvc C-900 DR-18
culinary waterline l=470'

Existing
home to
remain

Existing water meter
& connection

3500 WEST STREET

Gallop Bend Subdivision

LOT 2
56,413 sf
1.30 acres

LOT 1
47,724 sf
1.10 acres

Chip Square Subdivision No. 1
Lot 1

LICENSED PROFESSIONAL ENGINEER
08-30-22
LYNN D. WALL
No. 182598
08-30-2022
STATE OF UTAH

Developer:
Judy Kent
Contact:
Tony Kent: 385-502-1184

Approved for Construction
_____
Weber City Engineer
Date: _____

Project:
KENT SUBDIVISION NO. 2
IMPROVEMENT DRAWINGS
WEBER COUNTY, UTAH

Title:
CULINARY WATER IMPROVEMENTS

Date:
30 AUGUST 2022

Sheet 5 of 20

Prepared By:
Summers Engineering Collective
- Jen Summers -
Summers.eng.collective@gmail.com

#	Date:	Revision:

Gallop Bend Subdivision

LOT 4
54,288 sf
1.25 acres

Property of
Kathryn Lake

Fosters Subdivision
Lot 1

S89°32'08"E
48.62'

Double service meter (typical)
Install 1-1/2" CTS poly secondary water lateral

N0°03'15"E 110.69'

LOT 5
39,871 sf
0.92 acres

DETENTION
BASIN

Easement line

LOT 3
56,475 sf
1.30 acres

Install 6" C-900 DR18 PVC
secondary water pipe (purple)
l=475'

Hot tap connection to existing 24" secondary
waterline (Hooper Irrigation)
on 3500 West Street
Install 6" secondary water gate valve

2450 SOUTH STREET

N
0' 30' 60'
Scale: 1"=60' (11"x17")
Scale: 1"=30' (24"x36")

Gallop Bend Subdivision

LOT 2
56,413 sf
1.30 acres

LOT 1
47,724 sf
1.10 acres

Existing
home to
remain

3500 WEST STREET

Chip Square Subdivision No. 1
Lot 1

LICENSED PROFESSIONAL ENGINEER
08-30-22
LYNN D. WALL
No. 182598
08-30-2022
STATE OF UTAH

Developer:
Judy Kent
Contact:
Tony Kent: 385-502-1184

Approved for Construction
_____
Weber City Engineer
Date: _____

Project:
KENT SUBDIVISION NO. 2
IMPROVEMENT DRAWINGS
WEBER COUNTY, UTAH

Title:
SECONDARY WATER
IMPROVEMENTS

Date:
30 AUGUST 2022

Sheet 6 of 20

Prepared By:
Summers Engineering Collective
- Jen Summers -
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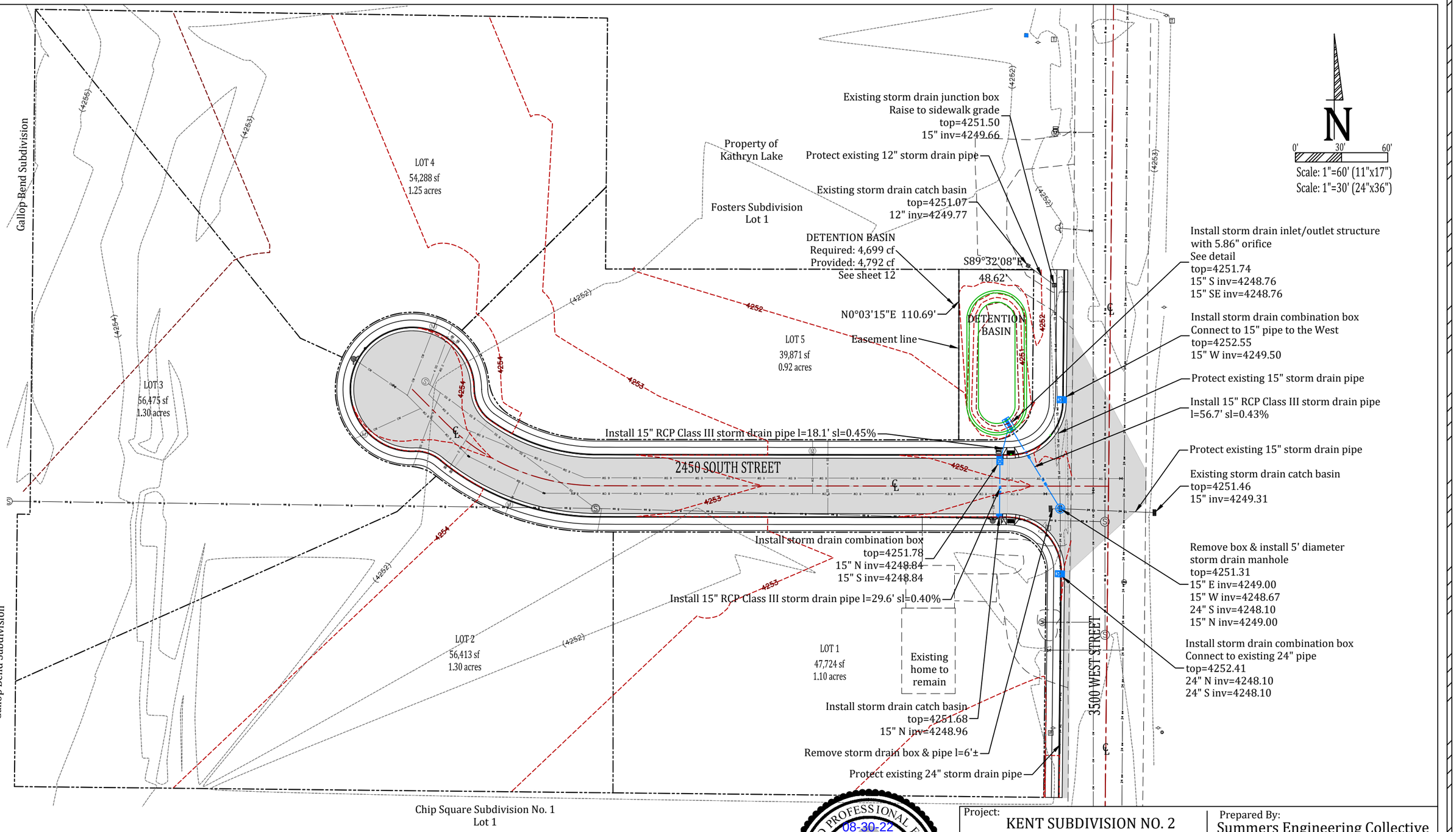

Developer:
Judy Kent
Contact:
Tony Kent: 385-502-1184

Approved for Construction
_____
Weber City Engineer
Date: _____

LICENSED PROFESSIONAL ENGINEER
08-30-22
LYNN D. WALL
No. 182598
08-30-2022
STATE OF UTAH

Project:
KENT SUBDIVISION NO. 2
IMPROVEMENT DRAWINGS
WEBER COUNTY, UTAH

Title:
STORM DRAIN
IMPROVEMENTS

Date:
30 AUGUST 2022

Sheet 7 of 20

Prepared By:
Summers Engineering Collective
- Jen Summers -
Summers.eng.collective@gmail.com

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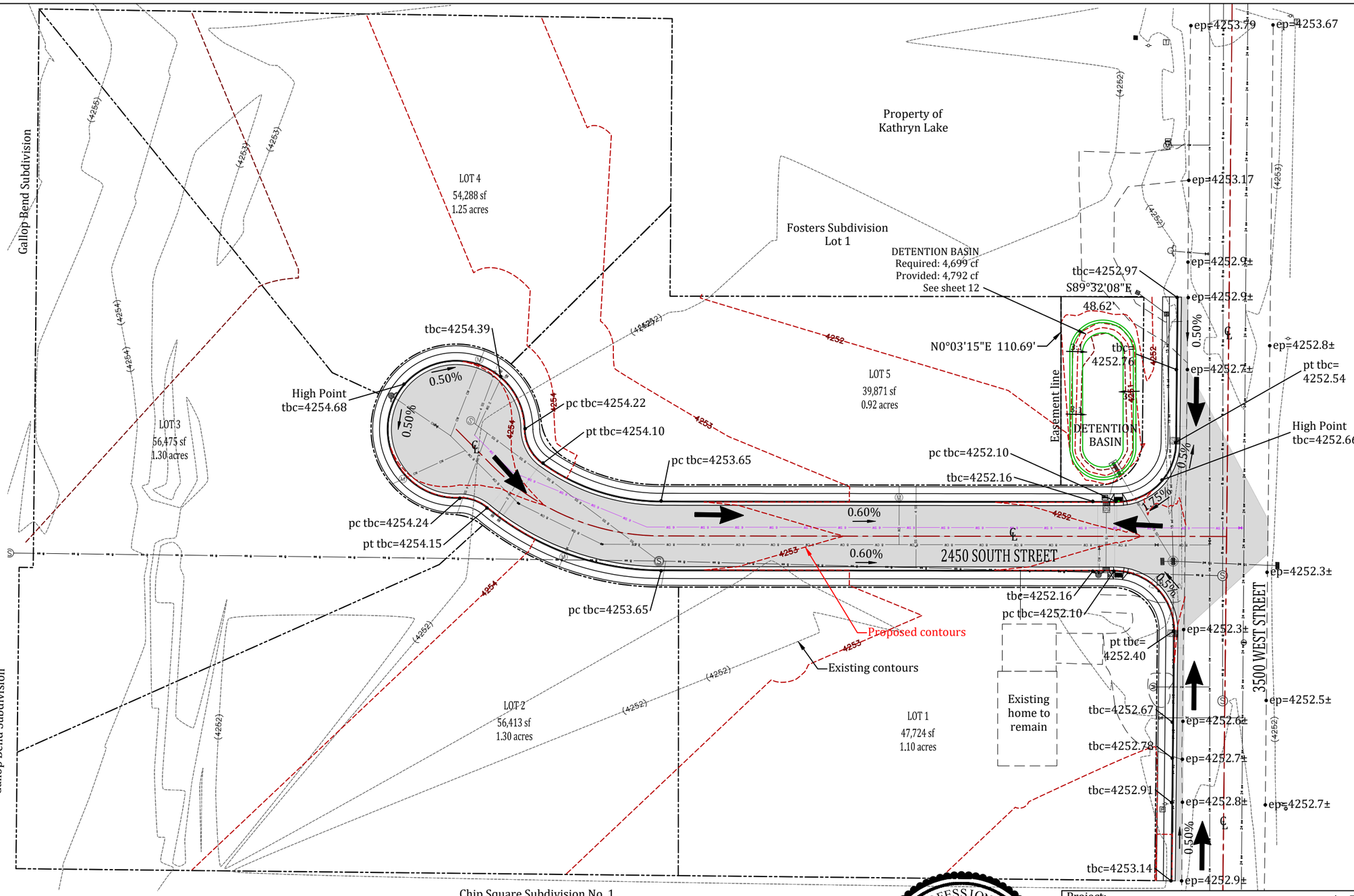

Developer:
Judy Kent
Contact:
Tony Kent: 385-502-1184

Approved for Construction
_____
Weber City Engineer
Date: _____

LICENSED PROFESSIONAL ENGINEER
08-30-22
LYNN D. WALL
No. 182598
08-30-2022
STATE OF UTAH

Project:
KENT SUBDIVISION NO. 2
IMPROVEMENT DRAWINGS
WEBER COUNTY, UTAH

Title:
GRADING PLAN

Date:
30 AUGUST 2022

Sheet 8 of 20

Prepared By:
Summers Engineering Collective
- Jen Summers -
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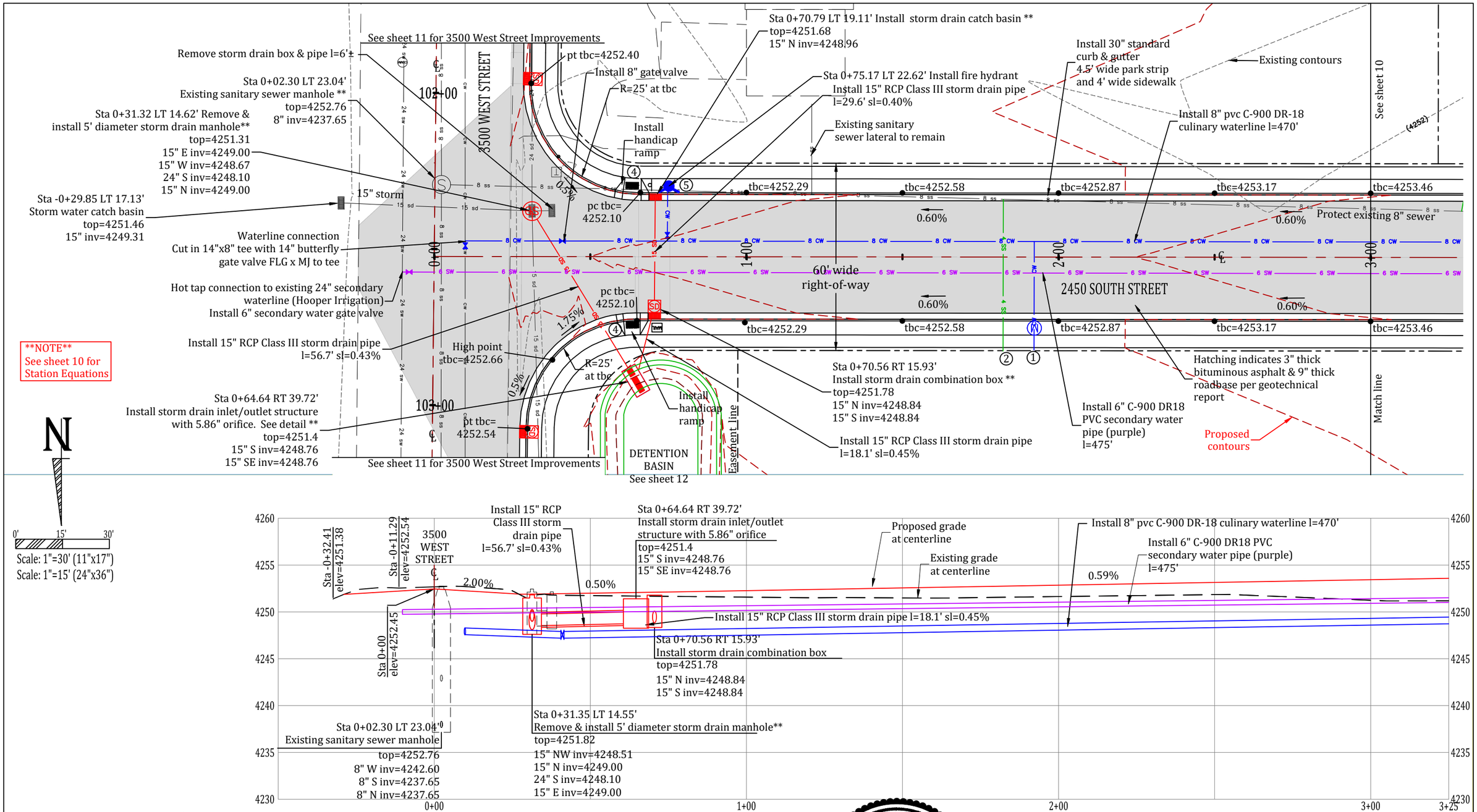
#	Date:	Revision:



Approved for Construction

_____

Weber City Engineer

Date: _____

Developer:
Judy Kent
Contact:
Tony Kent: 385-502-1184

CONSTRUCTION NOTES:

1. Construct 1" CTS Poly pipe SDR 9 lateral and meter box (Taylor West Weber Water typical)
2. Install 4" pvc sanitary sewer lateral (typical) sl=2% minimum.
3. Double service meter (typical). Install 1-1/2" CTS poly secondary water lateral.
4. All handicap ramps to meet APWA Plan 235.1 Example B Truncated Dome Gray in Color.
5. All fire hydrants shall meet Taylor West Weber Improvement District Standards.

LICENSED PROFESSIONAL ENGINEER
08-30-22
LYNN D. WALL
No. 182598
08-30-2022
STATE OF UTAH

Project:
KENT SUBDIVISION NO. 2
IMPROVEMENT DRAWINGS
WEBER COUNTY, UTAH

Title:
2450 SOUTH STREET
PLAN & PROFILE: STA 0+00 - 3+00

Date:
30 AUGUST 2022

Sheet 9 of 20

Prepared By:
Summers Engineering Collective
- Jen Summers -
Summers.eng.collective@gmail.com

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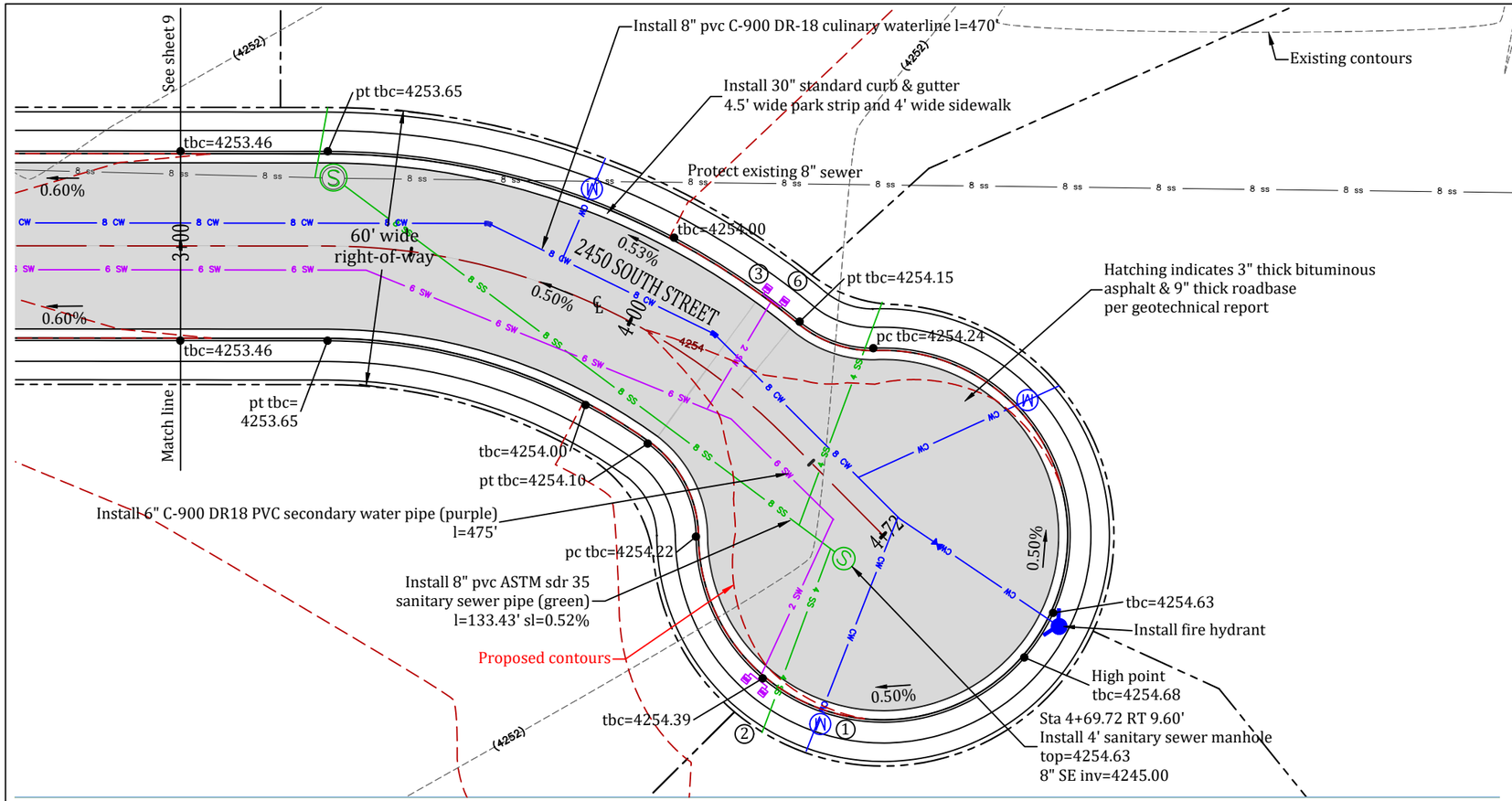

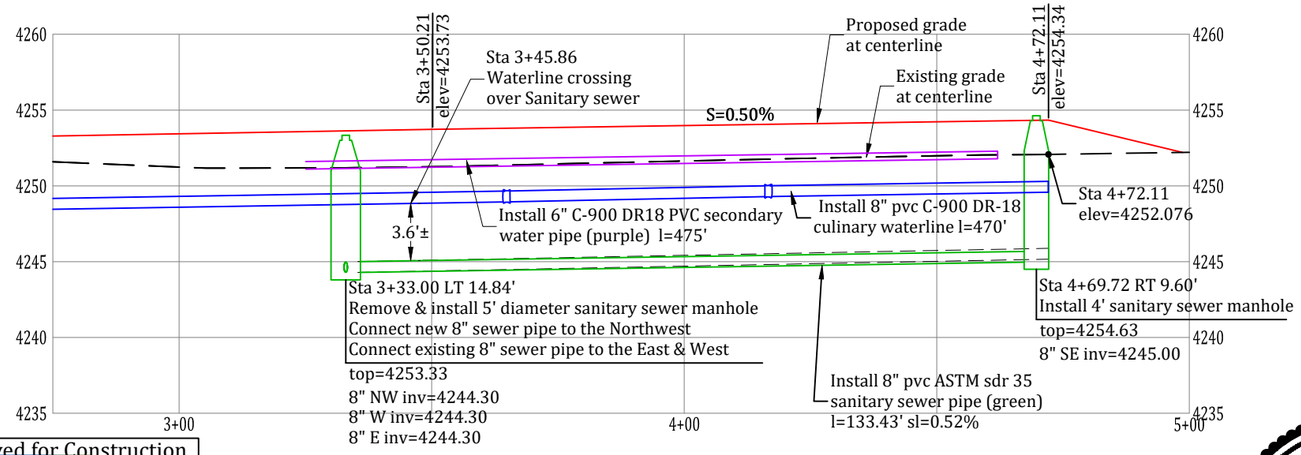

STATION EQUATIONS

DESCRIPTON	2450 SOUTH STATIONING	3500 WEST STATIONING	DETENTION POND STATIONING
Install storm drain combination box	0+70.56 RT 15.93'	N/A	200+61.02 RT 0.13'
Install storm drain inlet/outlet structure with 5.86" orifice	0+64.64 RT 39.72'	N/A	200+87.48 LT 0.04'
Install storm drain combination box Connect to 15" pipe to the West	N/A	103+08.24 LT 31.94'	200+84.46 RT 36.91'
Existing storm drain junction box Raise to sidewalk grade	N/A	103+82.53 LT 36.65'	201+63.12 RT 59.08'
Remove & install 5' diameter storm drain manhole	0+31.32 LT 14.62'	102+37.53 LT 31.21'	200+30.75 RT 39.59'
Install storm drain catch basin	0+70.79 LT 19.11'	N/A	200+25.97 RT 0.15'
Existing sanitary sewer manhole	0+02.30 LT 23.04'	102+29.32 LT 2.08'	N/A

Approved for Construction

Weber City Engineer
Date: _____

Developer:
Judy Kent
Contact:
Tony Kent: 385-502-1184

CONSTRUCTION NOTES:

1. Construct 1" CTS Poly pipe SDR 9 lateral and meter box (Taylor West Weber Water typical)
2. Install 4" pvc sanitary sewer lateral (typical) sl=2% minimum.
3. Double service meter (typical). Install 1-1/2" CTS poly secondary water lateral.
4. All handicap ramps to meet APWA Plan 235.1 Example B Truncated Dome Gray in Color.
5. All fire hydrants shall meet Taylor West Weber Improvement District Standards.

LICENSED PROFESSIONAL ENGINEER
08-30-22
LYNN D. WALL
No. 182598
08-30-2022
STATE OF UTAH

Project:
KENT SUBDIVISION NO. 2
IMPROVEMENT DRAWINGS
WEBER COUNTY, UTAH

Title:
2450 SOUTH STREET
PLAN & PROFILE: STA 3+00 - 5+00

Date:
30 AUGUST 2022

Sheet 10 of 20

Prepared By:
Summers Engineering Collective
- Jen Summers -
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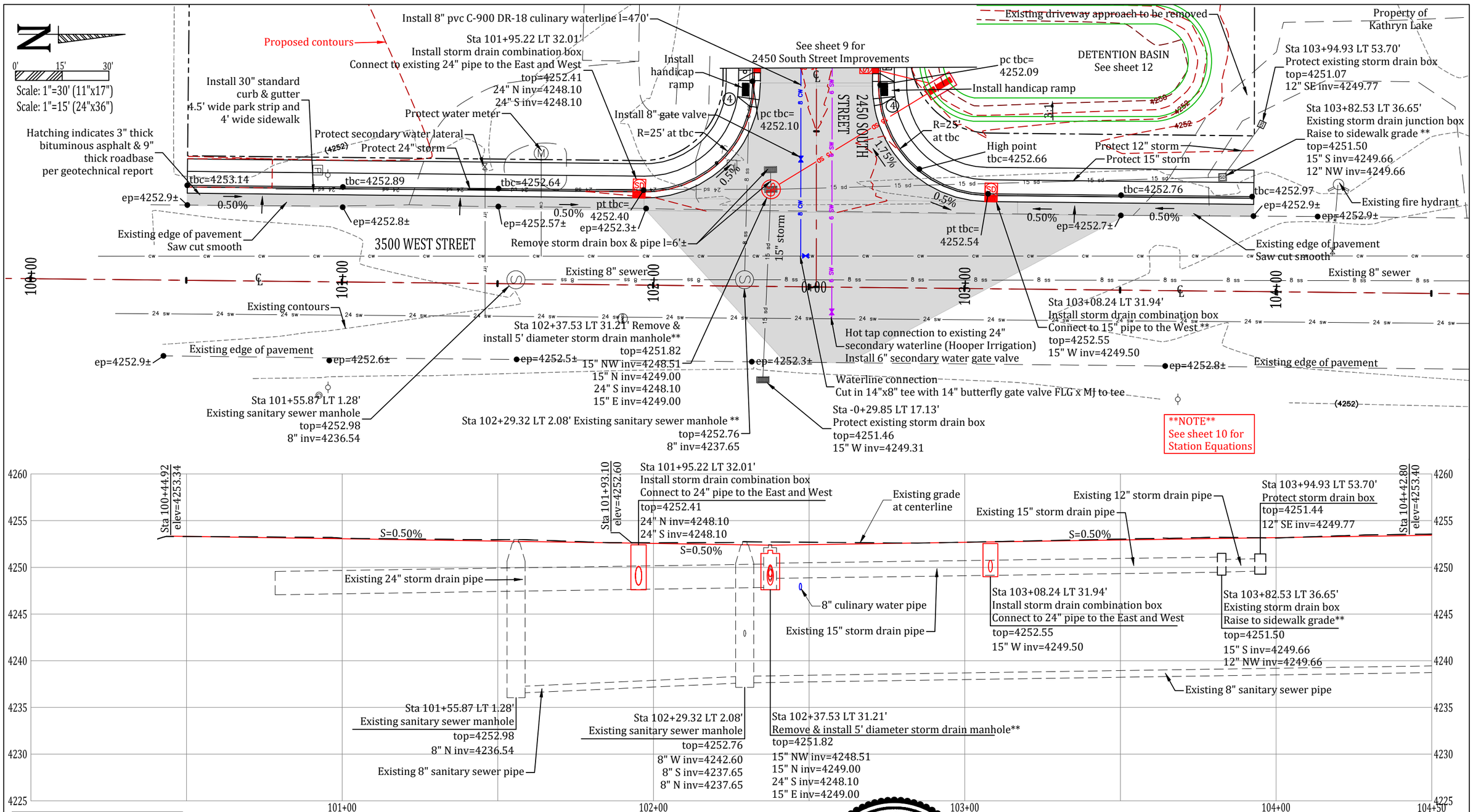
#	Date:	Revision:



Approved for Construction

_____

Weber City Engineer

Date: _____

Developer:
Judy Kent
Contact:
Tony Kent: 385-502-1184

CONSTRUCTION NOTES:

1. Construct 1" CTS Poly pipe SDR 9 lateral and meter box (Taylor West Weber Water typical)
2. Install 4" pvc sanitary sewer lateral (typical) sl=2% minimum.
3. Double service meter (typical). Install 1-1/2" CTS poly secondary water lateral.
4. All handicap ramps to meet APWA Plan 235.1 Example B Truncated Dome Gray in Color.
5. All fire hydrants shall meet Taylor West Weber Improvement District Standards.

LICENSED PROFESSIONAL ENGINEER
08-30-22
LYNN D. WALL
No. 182598
08-30-2022
STATE OF UTAH

Project:
KENT SUBDIVISION NO. 2
IMPROVEMENT DRAWINGS
WEBER COUNTY, UTAH

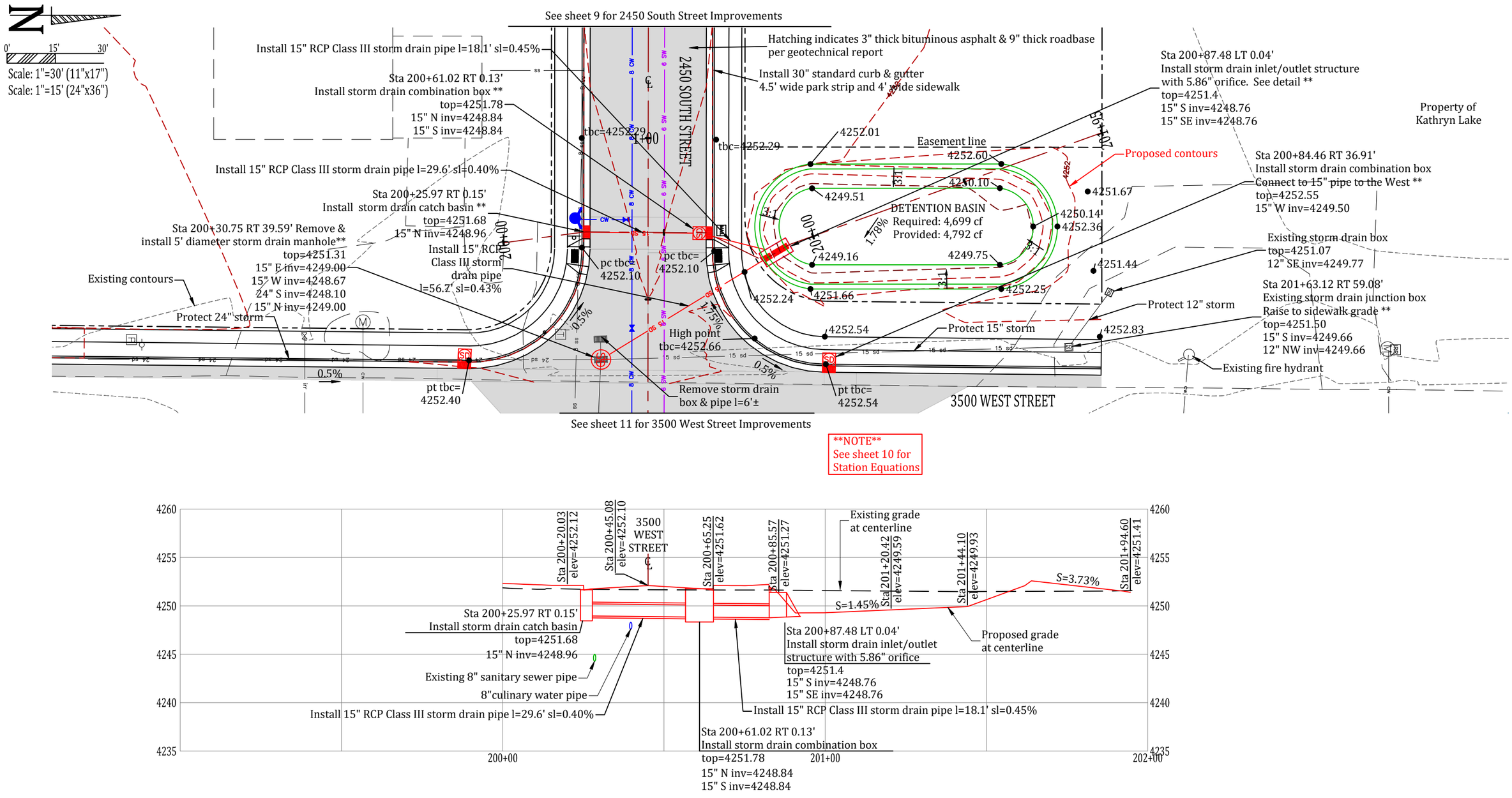
Title:
3500 WEST STREET
PLAN & PROFILE: STA 100+00 - 104+50

Date:
30 AUGUST 2022

Sheet 11 of 20

Prepared By:
Summers Engineering Collective
- Jen Summers -
Summers.eng.collective@gmail.com

#	Date:	Revision:



Approved for Construction

_____

Weber City Engineer

Date: _____

Developer:

Judy Kent

Contact:

Tony Kent: 385-502-1184

CONSTRUCTION NOTES:

1. Construct 1" CTS Poly pipe SDR 9 lateral and meter box (Taylor West Weber Water typical)

2. Install 4" pvc sanitary sewer lateral (typical) sl=2% minimum.

3. Double service meter (typical). Install 1-1/2" CTS poly secondary water lateral.

4. All handicap ramps to meet APWA Plan 235.1 Example B Truncated Dome Gray in Color.

5. All fire hydrants shall meet Taylor West Weber Improvement District Standards.

LICENSED PROFESSIONAL ENGINEER
08-30-22
LYNN D. WALL
No. 182598
08-30-2022
STATE OF UTAH

Project:
KENT SUBDIVISION NO. 2
IMPROVEMENT DRAWINGS
WEBER COUNTY, UTAH

Title:
DETENTION POND
PLAN & PROFILE: STA 200+00 - 202+00

Date:
30 AUGUST 2022

Sheet 12 of 20

Prepared By:
Summers Engineering Collective
- Jen Summers -
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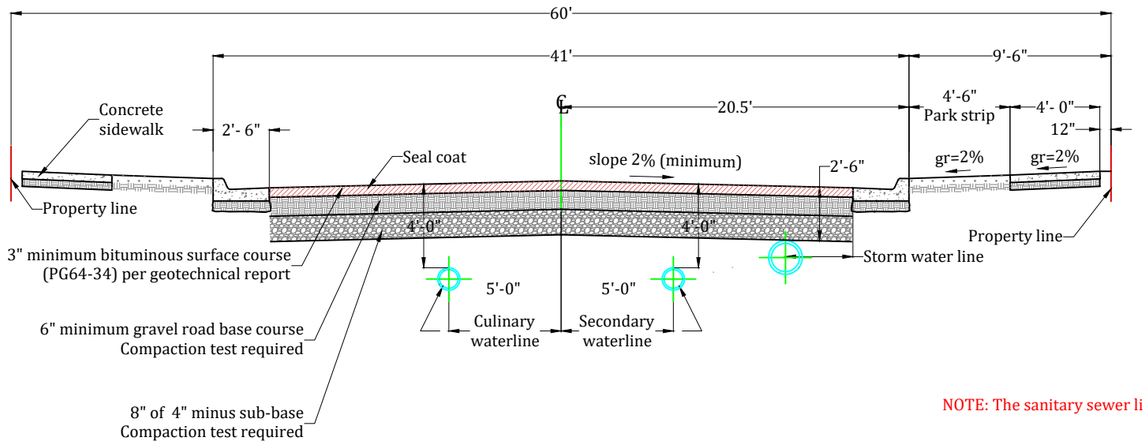
#	Date:	Revision:



2450 SOUTH STREET ROADWAY SECTION

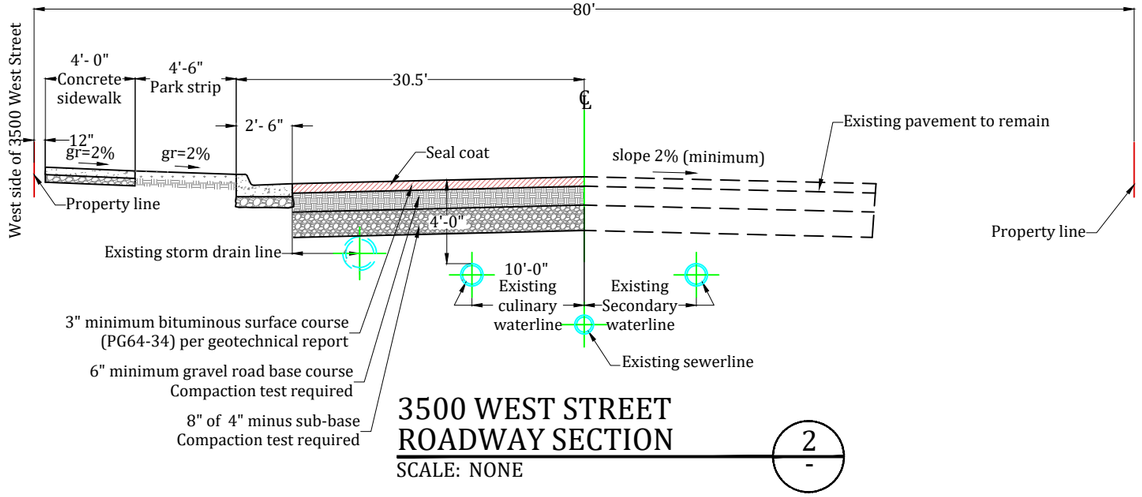
SCALE: NONE

1
-

NOTES:

1. Maximum difference in elevation between curb on opposite side of street shall not exceed 1'-0".
2. Pavement thickness shall be considered as minimum and may be increased by the Engineer or the geotechnical report when the subgrade c.b.r. is less than 10 or when a greater depth is necessary to provide sufficient stability.
3. Minor and major arterial streets shall be constructed with a 9" untreated base course and 3" bituminous surface course as required per geotechnical report.
4. Minimum storm drain line size is 15" diameter.
5. Minimum water line size is 8" diameter.
6. Minimum sanitary sewer line size is 8" diameter.
7. Contractor shall not install contaminated /recycled roadbase.

NOTE: The sanitary sewer line location varies on this street & is both existing and proposed.



3500 WEST STREET ROADWAY SECTION

SCALE: NONE

2
-

NOTES:

1. Maximum difference in elevation between curb on opposite side of street shall not exceed 1'-0".
2. Pavement thickness shall be considered as minimum and may be increased by the Engineer or the geotechnical report when the subgrade c.b.r. is less than 10 or when a greater depth is necessary to provide sufficient stability.
3. Minor and major arterial streets shall be constructed with a 9" untreated base course and 3" bituminous surface course as required per geotechnical report.
4. Minimum storm drain line size is 15" diameter.
5. Minimum water line size is 8" diameter.
6. Minimum sanitary sewer line size is 8" diameter.
7. Contractor shall not install contaminated /recycled roadbase.

Developer:
Judy Kent
Contact:
Tony Kent: 385-502-1184

Approved for Construction
_____
Weber City Engineer
Date: _____

LICENSED PROFESSIONAL ENGINEER
08-30-22
LYNN D. WALL
No. 182598
08-30-2022
STATE OF UTAH

Project:
KENT SUBDIVISION NO. 2
IMPROVEMENT DRAWINGS
WEBER COUNTY, UTAH

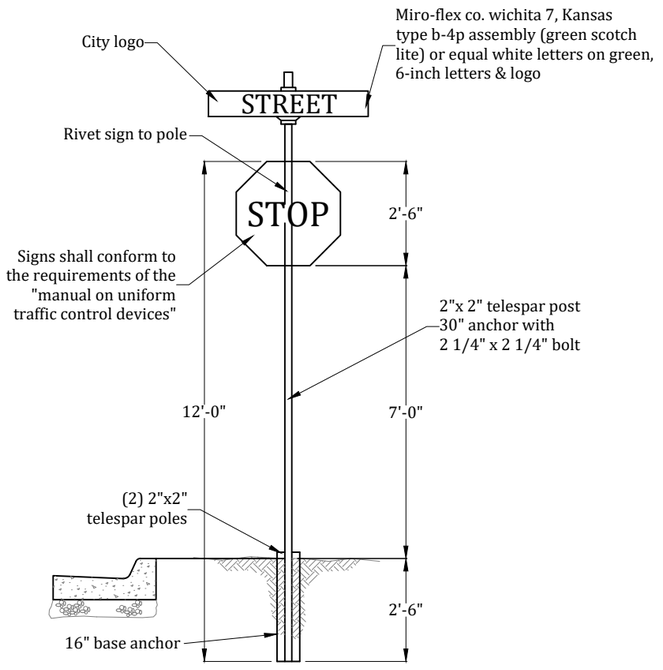
Title:
DETAILS: ROAD CROSS-SECTIONS

Date:
30 AUGUST 2022

Sheet 13 of 20

Prepared By:
Summers Engineering Collective
- Jen Summers -
Summers.eng.collective@gmail.com

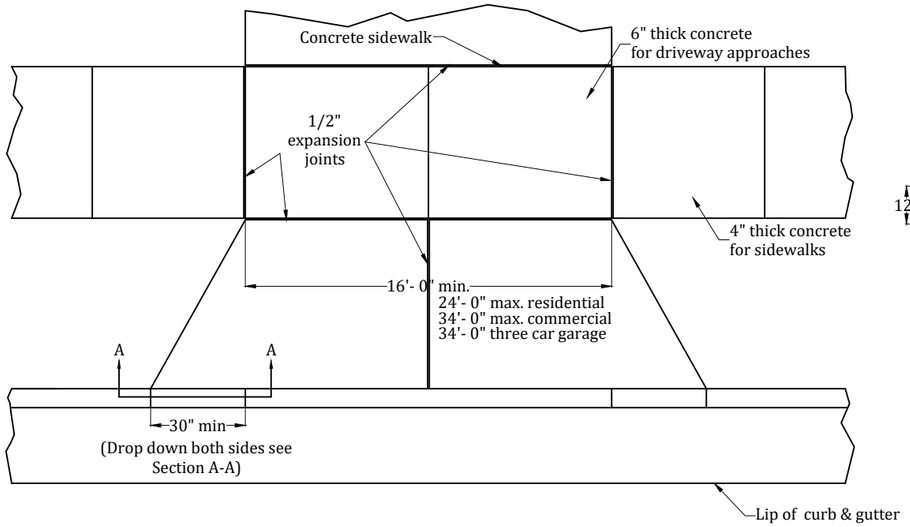
#	Date:	Revision:



TYPICAL REGULATORY SIGN W/ STREET NUMBER SIGN

1

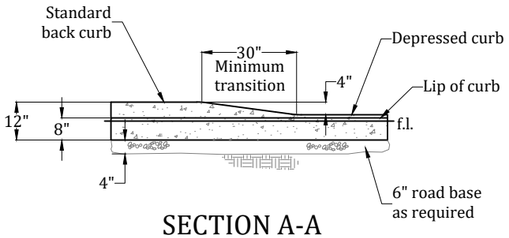
SCALE: NONE



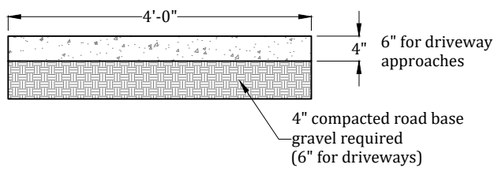
DRIVEWAY APPROACH

2

SCALE: NONE



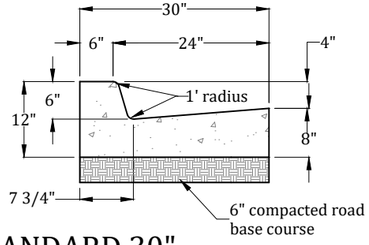
SECTION A-A



SIDEWALK SECTION

3

SCALE: NONE



STANDARD 30" CURB & GUTTER

4

SCALE: NONE

Developer:
Judy Kent
Contact:
Tony Kent: 385-502-1184

Approved for Construction
_____
Weber City Engineer
Date: _____

LICENSED PROFESSIONAL ENGINEER
08-30-22
LYNN D. WALL
No. 182598
08-30-2022
STATE OF UTAH

Project:
KENT SUBDIVISION NO. 2
IMPROVEMENT DRAWINGS
WEBER COUNTY, UTAH

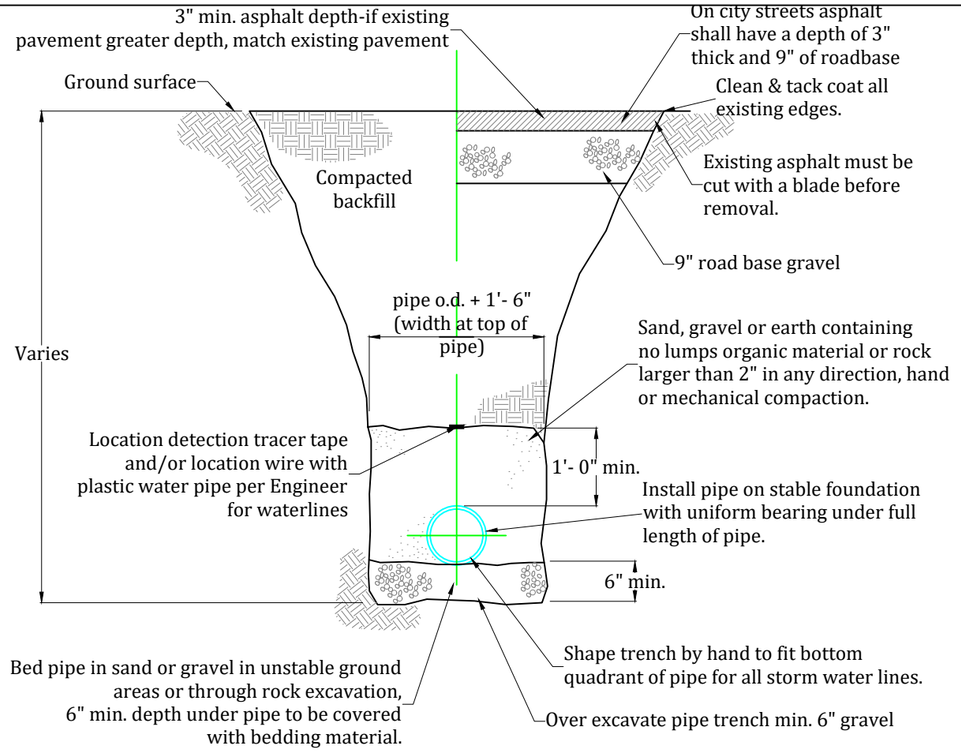
Title:
DETAILS: ROADS

Date:
30 AUGUST 2022

Sheet 14 of 20

Prepared By:
Summers Engineering Collective
- Jen Summers -
Summers.eng.collective@gmail.com

#	Date:	Revision:



STORM WATER, SANITARY SEWER & SECONDARY WATER TRENCH CROSS-SECTION

1 / -

SCALE: NONE

All utility trenching within road right-of-ways which are 66' wide or wider shall have flowable backfill material

Safe bearing loads	
Soil type	Safe bearing load (lb/ft^2)
Sand	1000
Sand & gravel	1500
Sand & gravel cemented with clay	2000
Shale	5000

Thrust block area against trench wall (square feet) = Thrust on fitting / Safe bearing load of soil

All trenching for service connections shall have 100% roadbase backfill material above the pipe zone within any road right-of-way

Thrust on fittings in pounds @ 1 pound per square inch of water pressure *				
Pipe size	Tees	90° bends	45° bends	22.5° bends
8"	65.8	93	50.4	25.5
10"	107.5	152	82.4	41.7
12"	153.1	216.4	117.2	59.4

*multiply thrust by maximum water pressure

SANITARY SEWER TRENCH NOTES:

1. The Contractor shall be responsible for meeting all current OSHA and UOSH requirements for trench safety.

2. Contractor shall locate all underground utilities before laying pipe within 200' of said utilities which may be exposed, damaged or crossed as shown on the drawings or as "blue staked" the Contractor will make arrangements with the utility company to move the utility if necessary or obtain permission from the project engineer to modify grade of pipeline in order to go around utilities.

3. The Contractor shall determine the actual location of existing service connections and utilities and take the necessary steps to avoid them. The Contractor is responsible for any damage occurring during construction.

4. Testing: All new sanitary sewers to be cleaned, "videotaped", and necessary repairs made before acceptance. All lines shall be pressure tested to 3.5 psi minimum for 5 minutes before backfilling. A mandrel or ball can be used to verify deformation of a pipe as determined from the videotape unless specified otherwise.

5. All measurements are in English units.

6. All sewer lines to be installed in roadway.

7. All sewer lines to be installed at a minimum 10' distance horizontal from any water lines.

8. All sewer lines to be installed with a minimum of 4' cover to the top of the pipe.

9. All sewer line crossings above water mains shall be laid to provide a minimum vertical distance of 18" between the outside of the water main and the outside of the sewer main. The crossing shall be arranged so that the sewer joints will be equidistant as far as possible from the water main joints.

10. When it is impossible to obtain the proper horizontal and vertical separation, the sewer shall be constructed of cast iron, ductile iron, galvanized steel, or projected pipe with mechanical joints for the minimum distance of 10' on either side of the pipe crossing.

STORM DRAIN TRENCH NOTES:

1. The Contractor shall be responsible for meeting all current OSHA and UOSH requirements for trench safety.

2. Contractor shall locate all underground utilities before laying pipe within 50' of said utilities which may be exposed, damaged or crossed as shown on the drawings or as "blue staked" the contractor will make arrangements with the utility company to move the utility if necessary or obtain permission from the Project Engineer to modify grade of pipeline in order to go around utilities.

3. Testing: All new storm water systems to be cleaned, "videotaped", and necessary repairs made before acceptance. All lines shall be pressure tested to 3.5 psi (min.) for 5 minutes. A mandrel or ball can be used to verify deformation of a pipe as determined from the videotape.

4. All storm water lines to be installed in roadway or under curb and gutter with approval by city engineer.

5. Minimum pipe size for storm water pipe is 15" diameter and must be reinforced concrete.

6. Minimum depth of storm water pipe shall be 24" cover over top of pipe bell for standard backfill material, or as approved by City Engineer.

Developer:
Judy Kent
Contact:
Tony Kent: 385-502-1184

Approved for Construction
_____
Weber City Engineer
Date: _____

LICENSED PROFESSIONAL ENGINEER
08-30-22
LYNN D. WALL
No. 182598
08-30-2022
STATE OF UTAH

Project:
KENT SUBDIVISION NO. 2
IMPROVEMENT DRAWINGS
WEBER COUNTY, UTAH

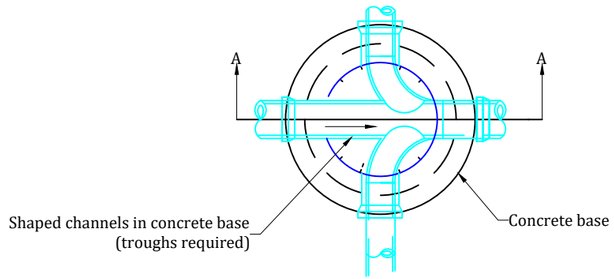
Title:
DETAILS: TRENCHING

Date:
30 AUGUST 2022

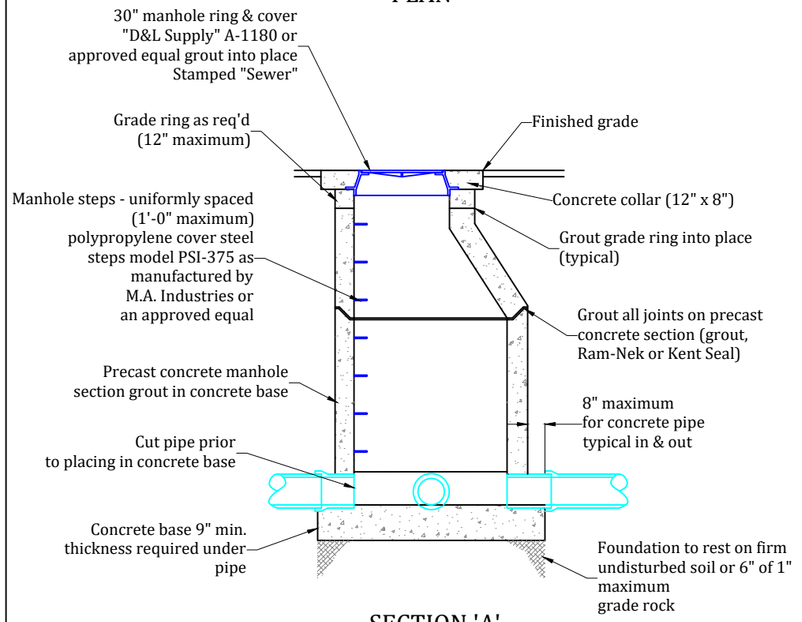
Sheet 15 of 20

Prepared By:
Summers Engineering Collective
- Jen Summers -
Summers.eng.collective@gmail.com

#	Date:	Revision:



PLAN



SECTION 'A'

NOTES:

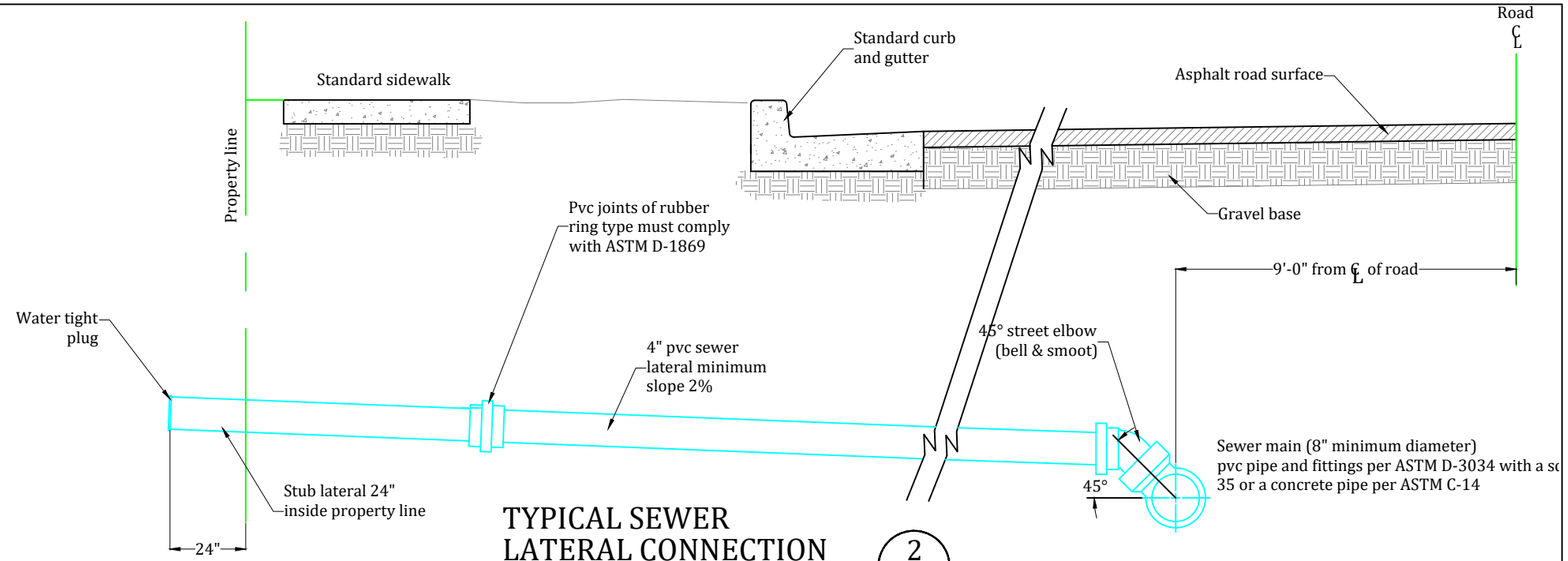
1. Cast in place manhole shown. A precast reinforced manhole is acceptable.

2. Expansion water tight boot to be installed for pipe connections with all precut reinforced manholes.

STANDARD SANITARY SEWER MANHOLE

SCALE: NONE

1
-

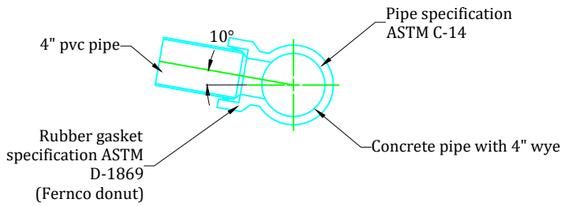


TYPICAL SEWER LATERAL CONNECTION

SCALE: NONE

2
-

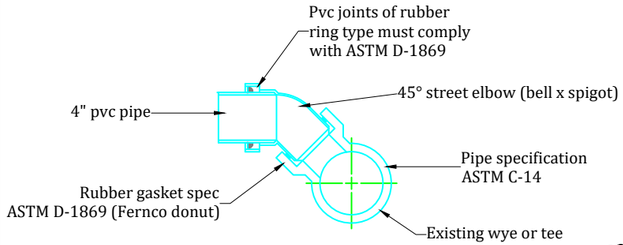
Note: When connection is made into existing concrete wye the wye must be rotated to a minimum of 10° and a maximum of 45° from the horizontal as shown



CONNECTION INTO CONCRETE WYE (W/O 45° ELBOW)

SCALE: NONE

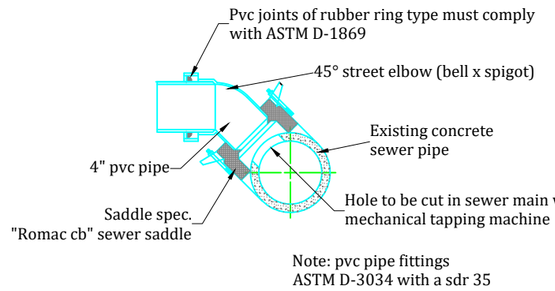
3
-



CONNECTION INTO CONCRETE WYE (W/45° ELBOW)

SCALE: NONE

5
-

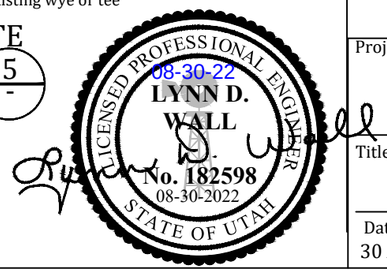


Note: pvc pipe fittings
ASTM D-3034 with a sdr 35

TAPPING INTO EXISTING CONCRETE PIPE

SCALE: NONE

4
-



Developer:
Judy Kent
Contact:
Tony Kent: 385-502-1184

Approved for Construction
_____
Weber City Engineer
Date: _____

Project:
KENT SUBDIVISION NO. 2
IMPROVEMENT DRAWINGS
WEBER COUNTY, UTAH

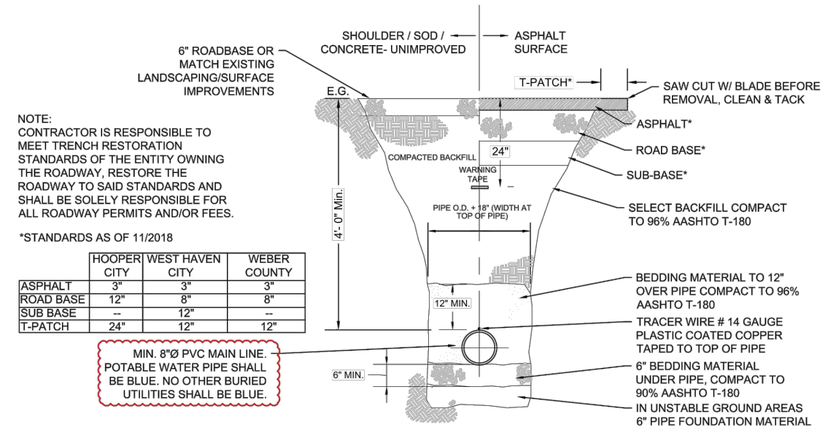
Title:
DETAILS: SANITARY SEWER

Date:
30 AUGUST 2022

Sheet 16 of 20

Prepared By:
Summers Engineering Collective
- Jen Summers -
Summers.eng.collective@gmail.com

#	Date:	Revision:



NOTE:
CONTRACTOR IS RESPONSIBLE TO MEET TRENCH RESTORATION STANDARDS OF THE ENTITY OWNING THE ROADWAY, RESTORE THE ROADWAY TO SAID STANDARDS AND SHALL BE SOLELY RESPONSIBLE FOR ALL ROADWAY PERMITS AND/OR FEES.

*STANDARDS AS OF 11/2018

	HOOPER CITY	WEST HAVEN CITY	WEBER COUNTY
ASPHALT	3"	3"	3"
ROAD BASE	12"	8"	8"
SUB BASE	--	12"	--
T-PATCH	24"	12"	12"

NOTE:
- WATER & SEWER LINES SHALL BE INSTALLED A MINIMUM OF 10 HORIZONTAL FEET FROM EACH OTHER.
- WHERE A WATER MAIN AND A SEWER MAIN MUST CROSS, THE WATER MAIN SHALL BE AT LEAST 18" ABOVE THE SEWER MAIN.
- SEPARATION DISTANCES ARE TO BE MEASURED EDGE-TO-EDGE.
- WATER MAINS SHALL NOT BE INSTALLED IN THE SAME TRENCH WITH EITHER SEWER OR SECONDARY PIPES.
- IF THESE STANDARDS CANNOT BE MET AN EXCEPTION TO THE STANDARD MAY BE POSSIBLE. THE ENTITY SEEKING THE EXCEPTION SHALL INITIATE AND PURSUE A REQUEST FOR A SEPARATION EXCEPTION WITH THE STATE DIVISION OF DRINKING WATER, IN ACCORDANCE WITH R309-550-7 OF THE STATE OF UTAH ADMINISTRATIVE RULES.

3A TYPICAL TRENCH SECTION

NTS

MATCH EXISTING PAVEMENT THICKNESS.

DRAFTED: MDD	DEVIATIONS FROM STANDARDS MUST BE APPROVED BY TAYLOR WEST WEBER WATER IMPROVEMENT DISTRICT. DDW Approval 6/2020
DESIGNED: DW	
CHECKED: RR	
REV 1: 3A: 2022-01-21, PIPE SIZE, TYPE, COLOR	
REV 2:	
REV 3:	
REV 4:	
\\ge-server2.local.gardnerengineering\land_desktop\2001 - tww\standards\2020\2001-details - rev2022-01-27.dwg	

STANDARD WATER DETAILS
TAYLOR WEST WEBER
WATER IMPROVEMENT DISTRICT
THRUST BLOCK DETAIL
TYPICAL VALVE DETAIL
SHEET 2

GARDNER ENGINEERING
CIVIL · LAND PLANNING · MUNICIPAL · LAND SURVEYING
5150 SOUTH 375 EAST OGDEN, UT
OFFICE: 801.476.0202 FAX: 801.476.0066

CULINARY WATER TRENCH NOTES:

1. All waterlines shall be PVC C-900 DR18.
2. All waterlines shall be 8" minimum.
3. Valves 12 inches or larger shall be butterfly valve boxes.
4. Ductile iron pipe and fittings shall be wrapped with polyethylene and have cathodic protection where required.
5. Whenever possible "hot tap" connections required. Hot tap valve to be supported during connection. Contractor to notify Weber County & Water supplier 24 hours in advance of making connection.
6. Contractor shall contact property owners 24 hours in advance with written notice for shutting off water.
7. Pipe zone shall be backfilled with sand or material as approved by Project Engineer.
8. Concrete collars shall be placed around all valves.
9. The following tests must be passed before the waterline is connected for service:
   a. Pressure Test - Must keep a minimum of 200 PSI for 2 hours
   b. Chlorination Test - Must keep a minimum of 30 PPM for 24 hours.
   c. Clear Water Test
   d. Bacteria Test - A minimum of 2 tests are required.
10. All mechanical joint restraint (e.g. megalug) connections, flange fittings and all other fittings using connection bolts must be furnished and installed with bluebolts.

Developer:
Judy Kent
Contact:
Tony Kent: 385-502-1184

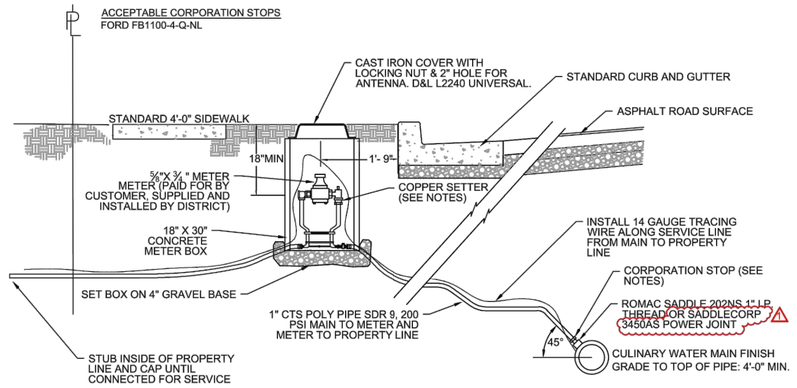
Approved for Construction
_____
Weber City Engineer
Date: _____

NOTES:

ACCEPTABLE COPPER SETTERS
FORD VBHC 72-18W-44-44QNL

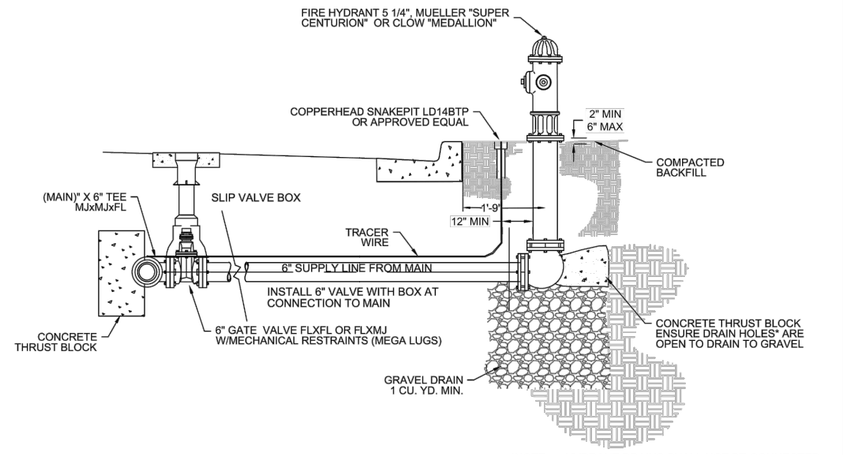
ALL COMPRESSION FITTINGS:
SHALL HAVE STAINLESS STEEL INSERTS

ACCEPTABLE CORPORATION STOPS
FORD FB1100-4-Q-NL



4 TYPICAL WATER CONNECTION\RE-CONNECTION

NTS



*NOTE: HYDRANT DRAINS SHALL NOT BE CONNECTED TO, OR LOCATED WITHIN, 10 FEET OF SANITARY SEWERS. WHERE POSSIBLE, HYDRANT DRAINS SHALL NOT BE LOCATED WITHIN 10 FEET OF STORM DRAINS.

5 FIRE HYDRANT DETAIL

NTS

DRAFTED: MDD	DEVIATIONS FROM STANDARDS MUST BE APPROVED BY TAYLOR WEST WEBER WATER IMPROVEMENT DISTRICT. DDW Approval 6/2020
DESIGNED: DW	
CHECKED: RR	
REV 1: 3/7/22, ADD SADDLECORP 3450AS	
REV 2:	
REV 3:	
REV 4:	
r:\2001 - tww\standards\2020\2001-details - rev2022-01-27.dwg	

STANDARD WATER DETAILS
TAYLOR WEST WEBER
WATER IMPROVEMENT DISTRICT
TYPICAL WATER CONNECTION DETAIL
FIRE HYDRANT DETAIL
SHEET 3

GARDNER ENGINEERING
CIVIL · LAND PLANNING · MUNICIPAL · LAND SURVEYING
5150 SOUTH 375 EAST OGDEN, UT
OFFICE: 801.476.0202 FAX: 801.476.0066

Project:
KENT SUBDIVISION NO. 2
IMPROVEMENT DRAWINGS
WEBER COUNTY, UTAH

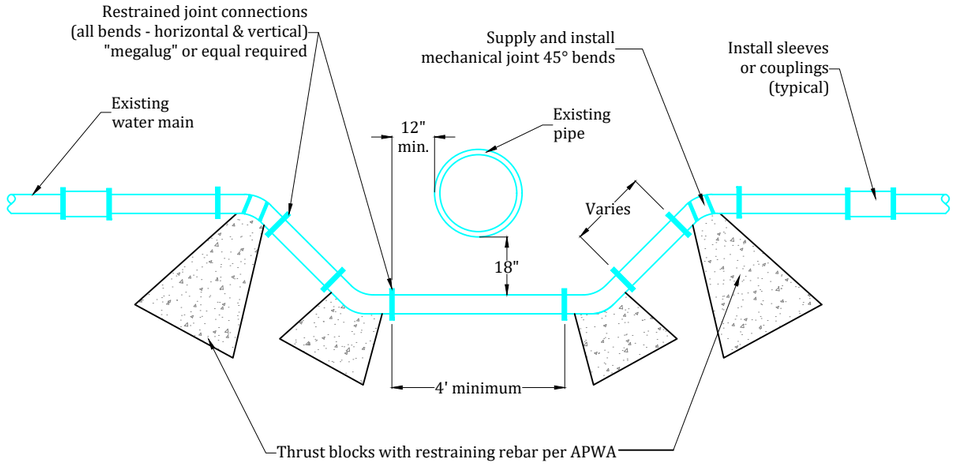
Title:
DETAILS: CULINARY WATER

Date:
30 AUGUST 2022

Sheet 17 of 20

Prepared By:
Summers Engineering Collective
- Jen Summers -
Summers.eng.collective@gmail.com

#	Date:	Revision:

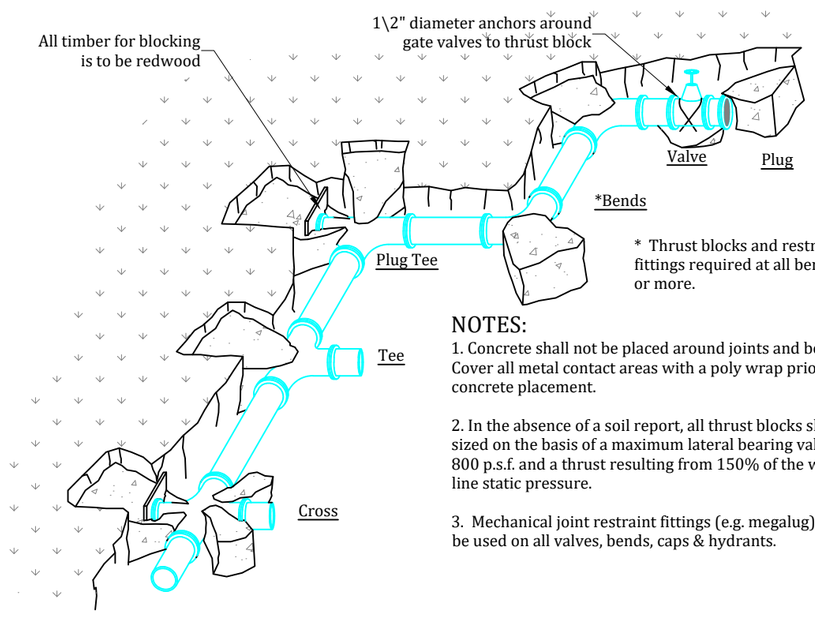


NOTE:
All County residents or commercial water users to be given 24 hour written notice before looping or shutting down any waterline.

TYPICAL WATER LOOP

SCALE: NONE

1 / -



* Thrust blocks and restrained joint fittings required at all bends 22 1/2° or more.

NOTES:
1. Concrete shall not be placed around joints and bolts. Cover all metal contact areas with a poly wrap prior to concrete placement.

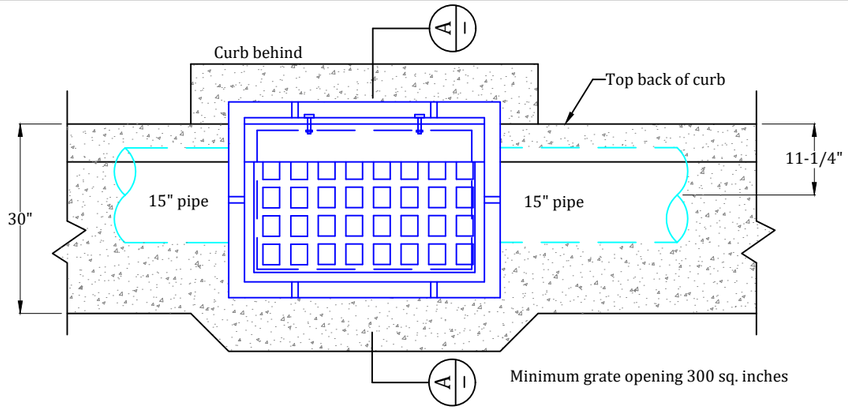
2. In the absence of a soil report, all thrust blocks shall be sized on the basis of a maximum lateral bearing value of 800 p.s.f. and a thrust resulting from 150% of the water line static pressure.

3. Mechanical joint restraint fittings (e.g. megalug) shall be used on all valves, bends, caps & hydrants.

CONCRETE THRUST BLOCK DETAILS

SCALE: NONE

2 / -



Minimum grate opening 300 sq. inches

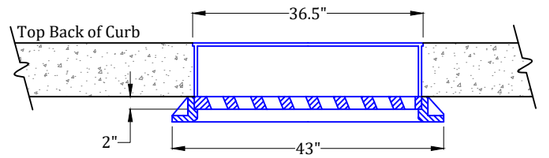
NOTES:
1. All reinforcement shall be #4 deformed steel, grade 60.

2. All reinforcement shall be placed at 9" o.c. each way in the floor and the walls.

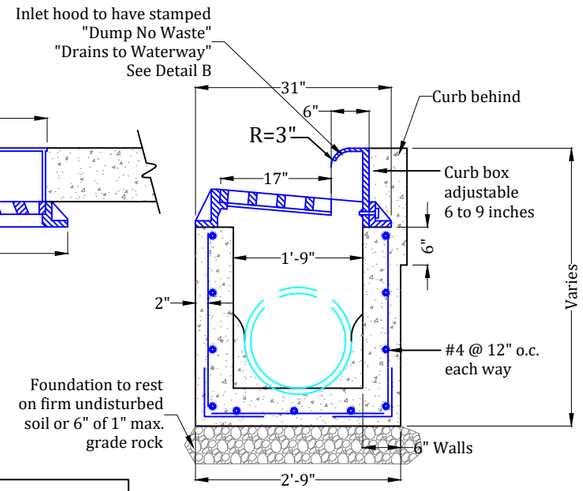
3. The adjustable curb box inlet grate shall be bicycle safe. D&L Supply I-3517 or acceptable equal.

4. All pipes in the box shall be cut with the interior of the box and grouted smooth.

5. Rebar shall have 2" clear on earth side of structure.



Inlet frame and grate with adjustable curb box (Olympic Foundary I-3517 or acceptable equal)



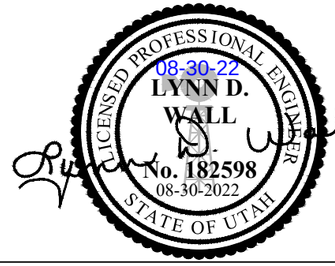
Detail B

SECTION A / –

STANDARD STORM DRAIN HOODED CATCH BASIN

SCALE: NONE

3 / -



Developer:
Judy Kent
Contact:
Tony Kent: 385-502-1184

Approved for Construction
_____
Weber City Engineer
Date: _____

Project:
KENT SUBDIVISION NO. 2
IMPROVEMENT DRAWINGS
WEBER COUNTY, UTAH

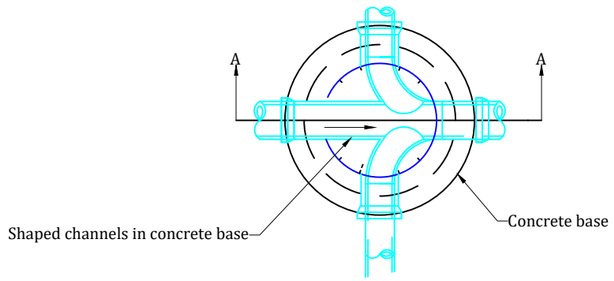
Title:
DETAILS:
CULINARY WATER & STORM DRAIN

Date:
30 AUGUST 2022

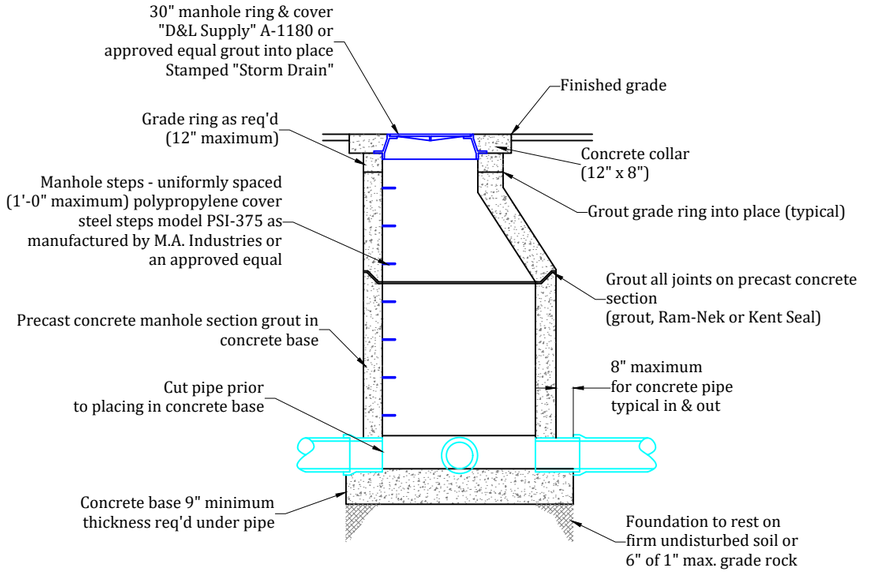
Sheet 18 of 20

Prepared By:
Summers Engineering Collective
- Jen Summers -
Summers.eng.collective@gmail.com

#	Date:	Revision:



PLAN

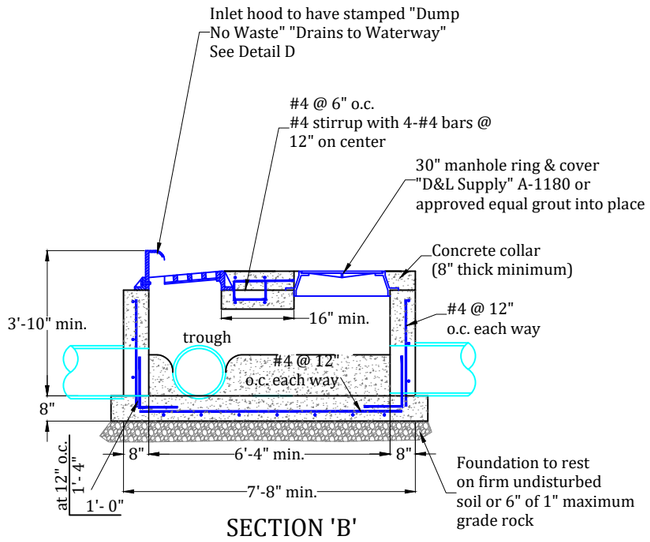


SECTION 'A'

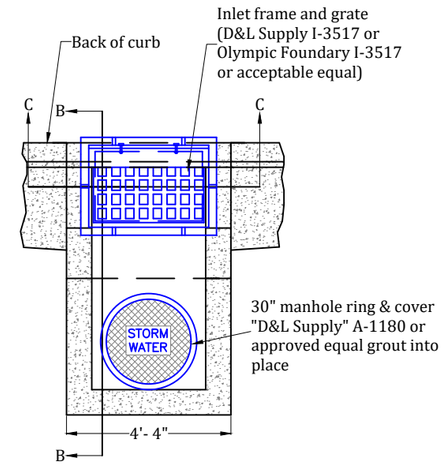
NOTE:
Cast in place manhole shown precast reinforced manhole acceptable.

STANDARD STORM DRAIN
MANHOLE — 1 / -
SCALE: NONE

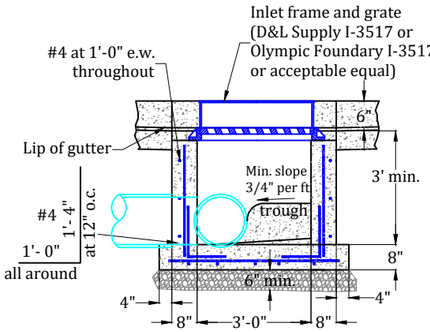
Detail D



SECTION 'B'



PLAN



SECTION 'C'

NOTE:
Details here are for "cast-in-place" box.

STANDARD STORM DRAIN
COMBINATION BOX — 2 / -
SCALE: NONE

LICENSED PROFESSIONAL ENGINEER
08-30-22
LYNN D. WALL
No. 182598
08-30-2022
STATE OF UTAH

Developer:
Judy Kent
Contact:
Tony Kent: 385-502-1184

Approved for Construction
_____
Weber City Engineer
Date: _____

Project:
KENT SUBDIVISION NO. 2
IMPROVEMENT DRAWINGS
WEBER COUNTY, UTAH

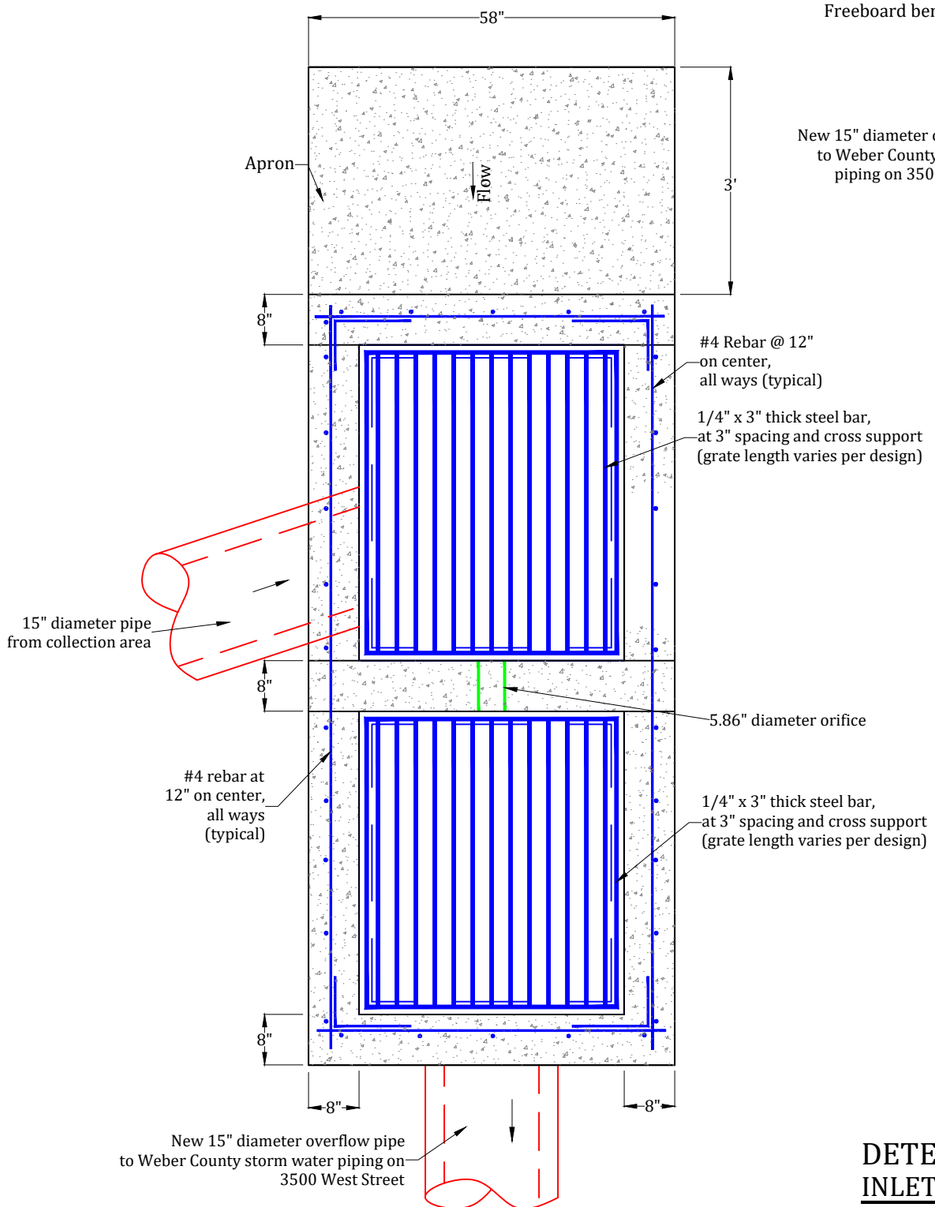
Title:
DETAILS: STORM DRAIN

Date:
30 AUGUST 2022

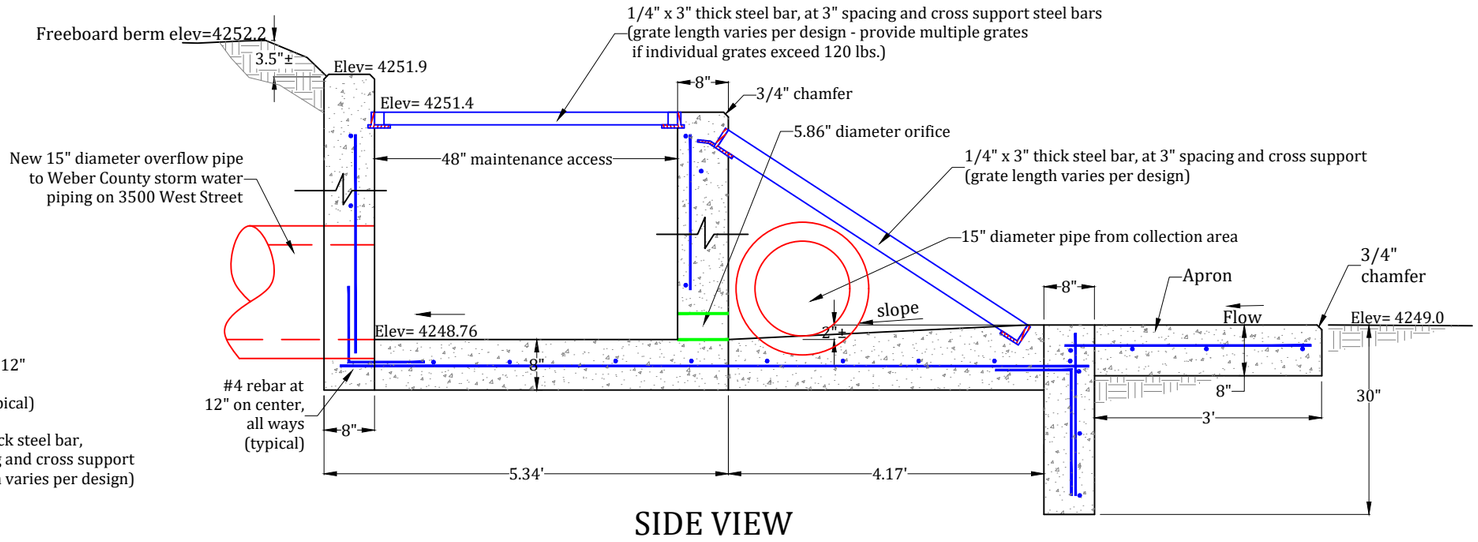
Sheet 19 of 20

Prepared By:
Summers Engineering Collective
- Jen Summers -
Summers.eng.collective@gmail.com

#	Date:	Revision:

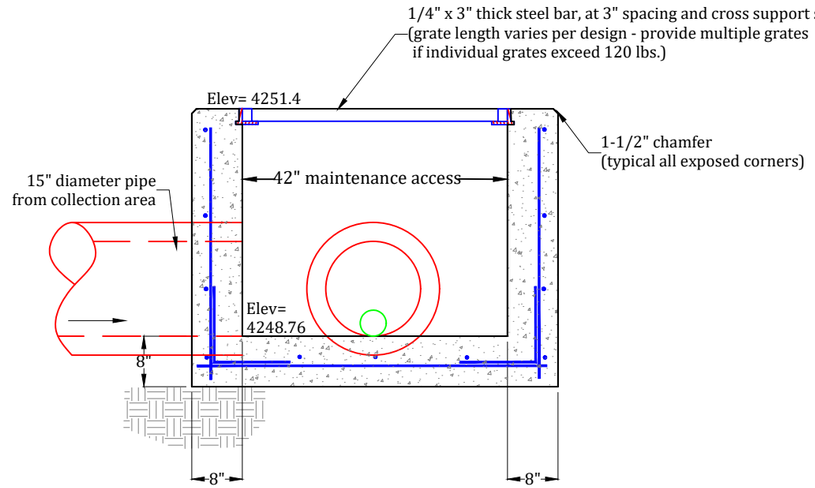


PLAN VIEW



SIDE VIEW

NOTE:
All exposed concrete corners
to have a 3/4" chamfered corner



SECTION VIEW

DETENTION BASIN
INLET/OUTLET STRUCTURE
SCALE: NONE

1
-

Developer:
Judy Kent
Contact:
Tony Kent: 385-502-1184

Approved for Construction
_____
Weber City Engineer
Date: _____

LICENSED PROFESSIONAL ENGINEER
08-30-22
LYNN D. WALL
No. 182598
08-30-2022
STATE OF UTAH

Project:
KENT SUBDIVISION NO. 2
IMPROVEMENT DRAWINGS
WEBER COUNTY, UTAH

Title:
DETAILS: DETENTION POND
INLET/OUTLET STRUCTURE

Date:
30 AUGUST 2022

Sheet 20 of 20

Prepared By:
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