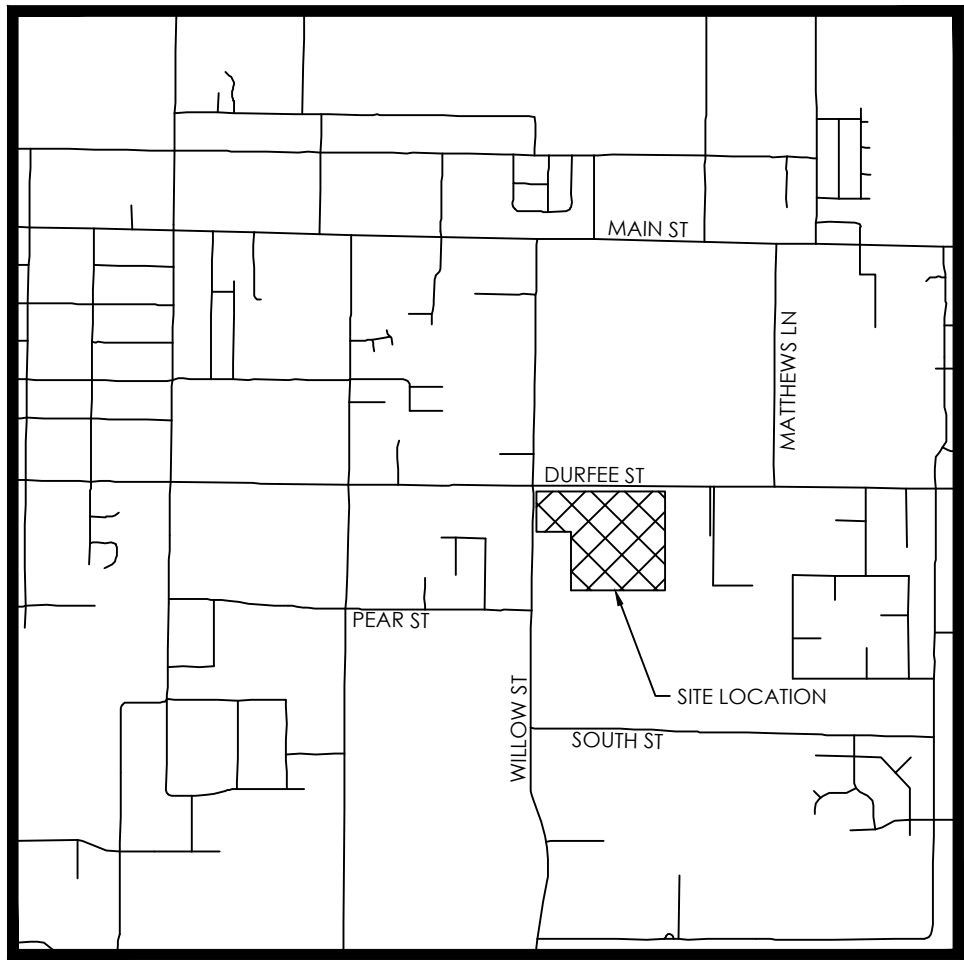


# MATTHEWS MEADOWS SUBDIVISION PHASE 2

PREPARED FOR:  
GRANTSVILLE'S NEW TEAM, LLC  
LOCATED IN:  
GRANTSVILLE, UT



VICINITY MAP

NTS

## BENCHMARK

NORTHEAST CORNER OF SECTION 05  
TOWNSHIP 03 SOUTH RANGE 05 WEST  
SALT LAKE BASE AND MERIDIAN  
ELEV: 4309.08'  
DATUM: NAVD88

"APPROVED FOR CONSTRUCTION"

BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
GRANTSVILLE CITY PUBLIC WORKS DIRECTOR

APPROVED BY CITY ENGINEER: GRANTSVILLE CITY, UTAH  
FOR PUBLIC IMPROVEMENTS ONLY (SHEETS \_\_\_\_\_)

BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
GRANTSVILLE CITY ENGINEER

"Approval of these plans does not release the developer from responsibility for correction of mistakes, errors or omissions contained therein. If during the course of construction, the public interest requires a modification or departure from the city specifications, or the approved plans, the city shall have the authority to require such modification or departure, and specify the manner in which the same is made"



SITE MAP

## GENERAL NOTES

- CONTRACTOR TO FIELD VERIFY HORIZONTAL AND VERTICAL LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO COMMENCEMENT OF CONSTRUCTION, AND REPORT ANY DISCREPANCIES TO THE ENGINEER.
- ANY AND ALL DISCREPANCIES IN THESE PLANS ARE TO BE BROUGHT TO THE ENGINEER'S ATTENTION PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- ALL CONSTRUCTION SHALL ADHERE TO GRANTSVILLE CITY STANDARD PLANS AND SPECIFICATIONS.
- ALL UTILITIES AND ROAD IMPROVEMENTS SHOWN ON THE PLANS HEREIN SHALL BE CONSTRUCTED USING REFERENCE TO SURVEY CONSTRUCTION STAKES PLACED UNDER THE SUPERVISION OF A PROFESSIONAL LICENSED SURVEYOR WITH A CURRENT LICENSE ISSUED BY THE STATE OF UTAH. ANY IMPROVEMENTS INSTALLED BY ANY OTHER VERTICAL OR HORIZONTAL REFERENCE WILL NOT BE ACCEPTED OR CERTIFIED BY THE ENGINEER OF RECORD.
- THIS DRAWING SET IS SCALED TO BE PRINTED ON A 24" X 36" SIZE OF PAPER (ARCH D). IF PRINTED ON A SMALLER PAPER SIZE, THE DRAWING WILL NOT BE TO SCALE AND SHOULD NOT BE USED TO SCALE MEASUREMENTS FROM THE PAPER DRAWING. ALSO USE CAUTION, AS THERE MAY BE TEXT OR DETAIL THAT MAY BE OVERLOOKED DUE TO THE SMALL SIZE OF THE DRAWING.
- CONSTRUCTION SHALL WORK AROUND SCHOOL SCHEDULE.

## NOTICE

BEFORE PROCEEDING WITH THIS WORK, THE CONTRACTOR SHALL CAREFULLY CHECK AND VERIFY ALL CONDITIONS, QUANTITIES, DIMENSIONS, AND GRADE ELEVATIONS, AND SHALL REPORT ALL DISCREPANCIES TO THE ENGINEER.

## ENGINEER'S NOTES TO CONTRACTOR

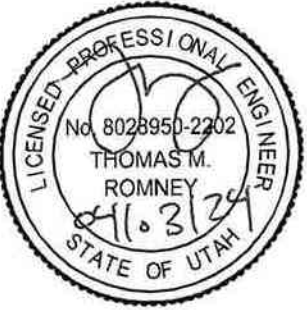
- THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES, CONDUITS OR STRUCTURES SHOWN ON THESE PLANS WERE OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS, TO THE BEST OF OUR KNOWLEDGE, THERE ARE NO EXISTING UTILITIES EXCEPT AS SHOWN ON THESE PLANS. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN ON THESE DRAWINGS. THE CONTRACTOR FURTHER ASSUMES ALL LIABILITY AND RESPONSIBILITY FOR THE UTILITY PIPES, CONDUITS OR STRUCTURES SHOWN OR NOT SHOWN ON THESE DRAWINGS. IF UTILITY LINES ARE ENCOUNTERED DURING CONSTRUCTION THAT ARE NOT IDENTIFIED BY THESE PLANS, CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY.
- CONTRACTOR AGREES THAT HE 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; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE CITY, 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 THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.
- UNAUTHORIZED CHANGES & USES: THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.
- ALL CONTOUR LINES SHOWN ON THE PLANS ARE AN INTERPRETATION BY CAD SOFTWARE OF FIELD SURVEY WORK PERFORMED BY A LICENSED SURVEYOR. DUE TO THE POTENTIAL DIFFERENCES IN INTERPRETATION OF CONTOURS BY VARIOUS TYPES OF GRADING SOFTWARE BY OTHER ENGINEERS OR CONTRACTORS, FOCUS DOES NOT GUARANTEE OR WARRANT THE ACCURACY OF SUCH LINEWORK. FOR THIS REASON, FOCUS WILL NOT PROVIDE ANY GRADING CONTOURS IN CAD FOR ANY TYPE OF USE BY THE CONTRACTOR. SPOT ELEVATIONS AND PROFILE ELEVATIONS SHOWN IN THE DESIGN DRAWINGS GOVERN ALL DESIGN INFORMATION ILLUSTRATED ON THE APPROVED CONSTRUCTION SET. CONSTRUCTION EXPERTISE AND JUDGMENT BY THE CONTRACTOR IS ANTICIPATED BY THE ENGINEER TO COMPLETE BUILD-OUT OF THE INTENDED IMPROVEMENTS.

## CONTACTS

ENGINEER & SURVEYOR  
FOCUS ENGINEERING & SURVEYING, LLC  
6949 S. HIGH TECH DRIVE SUITE 200  
MIDVALE, UTAH 84047  
(801) 352-0075  
PROJECT MANAGER: MATT CHRISTENSEN  
SURVEY MANAGER: MATT MERRILL

OWNER/DEVELOPER  
GRANTSVILLE'S NEW TEAM LLC  
1676 PROGRESS WAY  
TOOELE, UTAH 84074  
(801) 301-8591  
CONTACT: SHAWN HOLSTE

Sheet List Table	
Sheet Number	Sheet Title
C1	COVER SHEET
C2	FINAL PLAT
C3	EXISTING CONDITIONS
C4	OVERALL SITE PLAN
C4.1	SITE PLAN
C4.2	SITE PLAN
C4.3	SITE PLAN
C4.4	SITE PLAN
C4.5	HARDSCAPE PLAN
C5	OVERALL GRADING & DRAINAGE PLAN
C5.1	GRADING & DRAINAGE PLAN
C5.2	GRADING & DRAINAGE PLAN
C5.3	GRADING & DRAINAGE PLAN
C5.4	GRADING & DRAINAGE PLAN
C5.5	GRADING & DRAINAGE PLAN
C5.6	GRADING & DRAINAGE PLAN
C6	SEWER PLAN
C6.1	SEWER PLAN
C6.2	SEWER PLAN
C6.3	SEWER PLAN
C7	WATER PLAN
C7.1	WATER PLAN
C7.2	WATER PLAN
C7.3	WATER PLAN
C8	EROSION CONTROL PLAN
C9	OVERALL SIGNAGE & STRIPING PLAN
PP01	MERRILL STREET
PP02	MERRILL STREET
PP03	MCCONAUGHEY DRIVE
PP04	MCCONAUGHEY DRIVE
PP05	CHRISTENSEN WAY
PP06	CHRISTENSEN WAY
PP07	DAMON DRIVE
PP08	DAMON DRIVE
D1	DETAILS
D2	DETAILS
D3	DETAILS
D4	DETAILS
D5	DETAILS
D6	DETAILS
D7	DETAILS
D8	DETAILS
D9	DETAILS
D10	NOTES
D11	PRE-CON NOTES

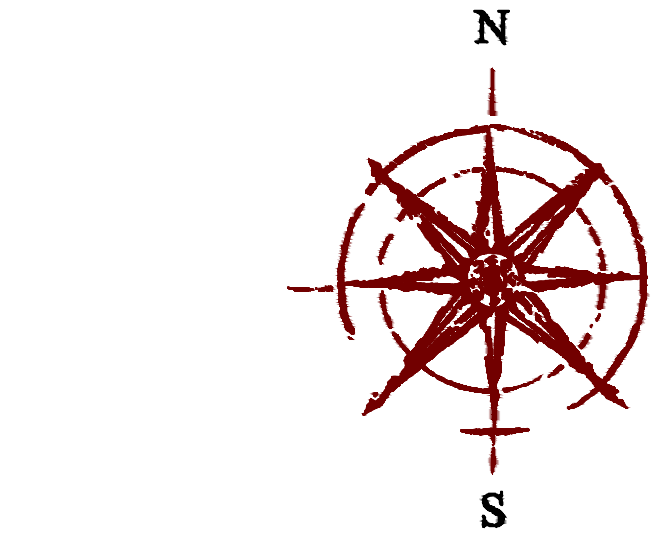


MATTHEWS MEADOWS SUBDIVISION PHASE 2  
GRANTSVILLE, UT  
COVER SHEET

REVISION BLOCK	
#	DESCRIPTION
1	
2	
3	
4	
5	
6	

## COVER SHEET

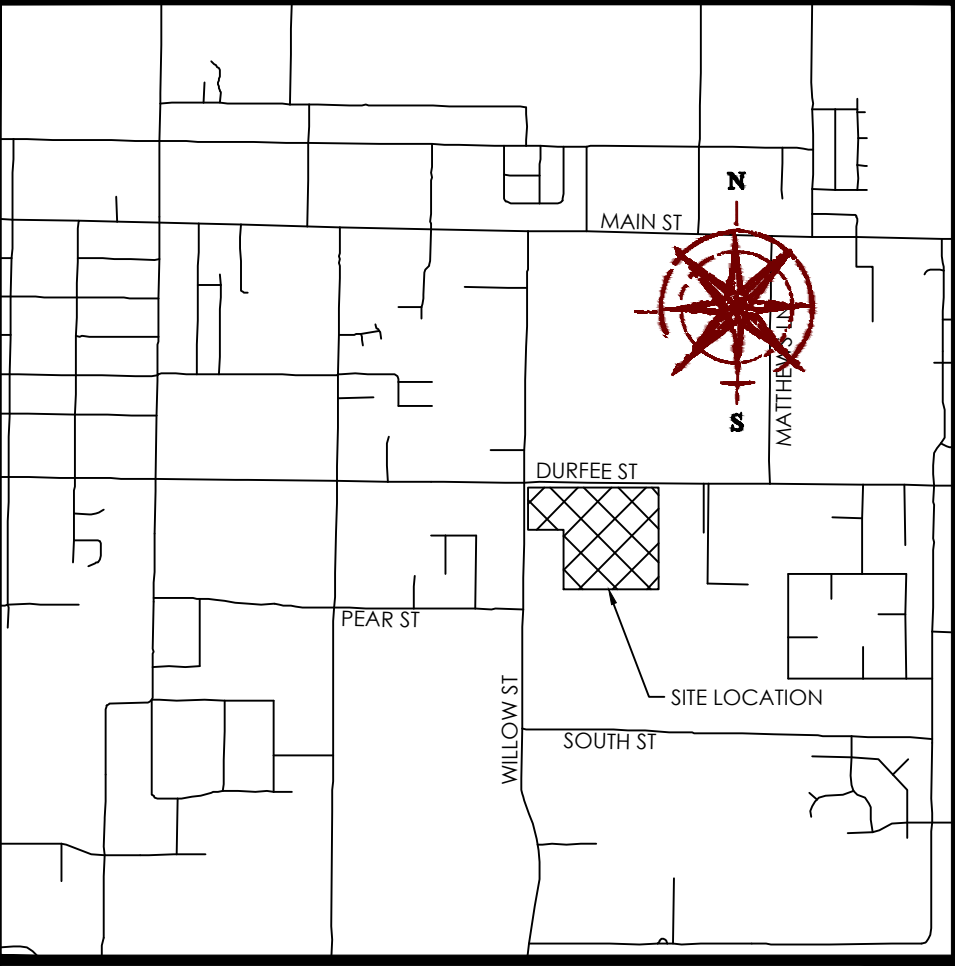
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Date: 04/03/24 Job #: 23-0012  
Sheet: C1



GRAPHIC SCALE

( IN FEET )  
1 inch = 60 ft.

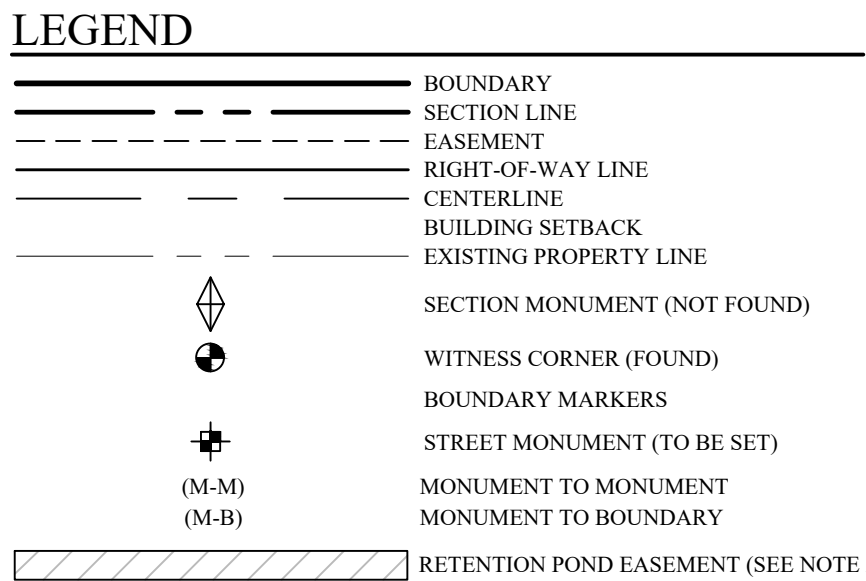




VICINITY MAP  
N.T.S.

NOTES

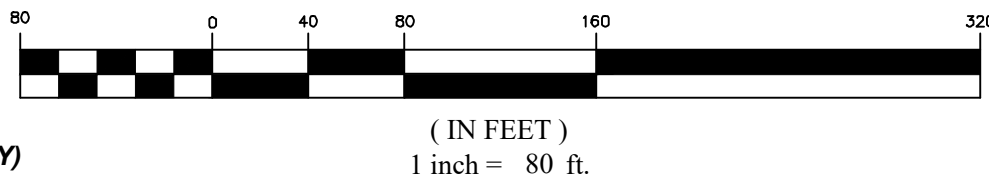
- 5/8" X 24" REBAR & CAP (FOCUS ENG) TO BE SET AT ALL LOT CORNERS. NAILS OR PLUGS TO BE SET IN TOP BACK OF CURB AT EXTENSION OF SIDE LOT LINES, IN LIEU OF REBAR AND CAPS AT FRONT LOT CORNERS.
- LOTS 202-205, 214-217, 219-226, & 236-241 PROPERTY OWNERS AGREE TO MAINTAIN THE STORM DRAIN RETENTION AREA AS APPROVED BY THE CITY ENGINEER, AND CONSTRUCTED BY THE DEVELOPER/BUILDER, AND THAT THEY WILL NOT ALTER THE GRADING, NOR ALLOW ANY DRAINAGE TO DISCHARGE ON THE NEIGHBORING PROPERTIES, OR PUT ANY IMPERVIOUS SURFACES IN THE AREA SHOWN ON THE PLAT. THIS REQUIREMENT WILL RUN WITH THE PROPERTY AND APPLY TO ALL FUTURE PROPERTY OWNERS. IF AT ANYTIME THE PROPERTY OWNER FAILS TO PROPERLY MAINTAIN THE BASIN TO THE REASONABLE SATISFACTION OF THE CITY ENGINEER, THE CITY MAY MAKE ALL NECESSARY IMPROVEMENTS, CORRECTIONS, REPAIRS, OR REPLACEMENTS AND COLLECT FROM THE PROPERTY OWNER ALL INCURRED COSTS, FEE, AND INTEREST.
- PROPERTY OWNERS AND ITS SUCCESSORS AND ASSIGNS HEREBY GRANTS A PERPETUAL PRIVILEGE AND EASEMENT TO GRANTSVILLE CITY TO ACCESS THE STORM DRAIN RETENTION AREA AT ANY TIME FOR THE PURPOSE OF MAINTENANCE, INSPECTION, REPAIR, OR REPLACEMENT OF ANY STORM WATER OR OTHER UTILITY ABOVE OR BELOW THE GROUND, INCLUDING BUT NOT LIMITED TO THE STORM DRAIN RETENTION AREA.
- PARCEL A IS HEREBY DEDICATED TO GRANTSVILLE CITY.
- PARCEL A WILL BE MAINTAINED BY GRANTSVILLE CITY.



# MATTHEWS MEADOWS SUBDIVISION

PHASE 2 FINAL PLAT  
LOCATED IN THE NE1/4 OF SECTION 6 & NW1/4  
OF SECTION 5, T3S, R5W,  
SALT LAKE BASE & MERIDIAN  
GRANTSVILLE CITY, TOOELE COUNTY, UTAH

GRAPHIC SCALE



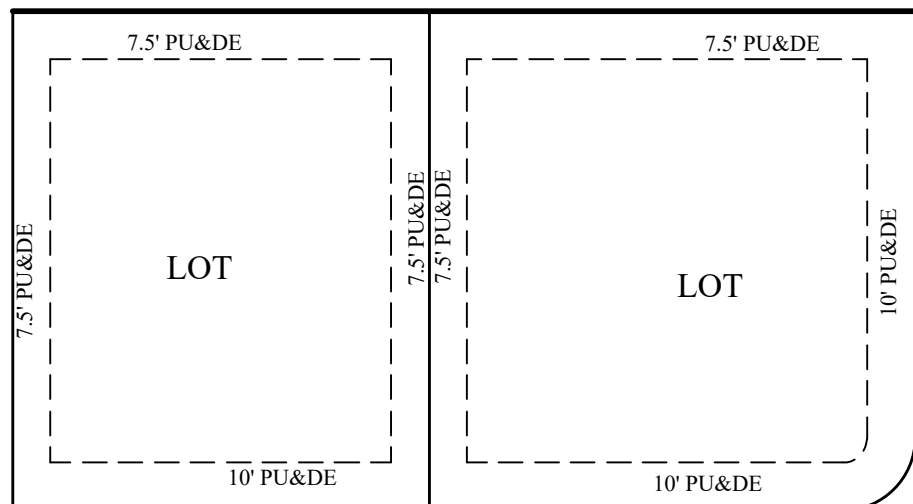
WITNESS CORNER TO THE  
NORTHWEST CORNER OF  
SECTION 5, T3S, R5W, SLB&M  
FOUND 3" STANDARD FLAT  
BRASS MONUMENT  
(LOCATED N89°50'03"W 492.39' FROM  
CALCULATED NORTHWEST CORNER)

N89°49'23"E  
492.53'  
(PER HATHCOCK SURVEY)

NORTHWEST CORNER OF  
SECTION 5, T3S, R5W, SLB&M  
CALCULATED POSITION)

N00°03'05"E  
261.86'  
(PER HATHCOCK SURVEY)

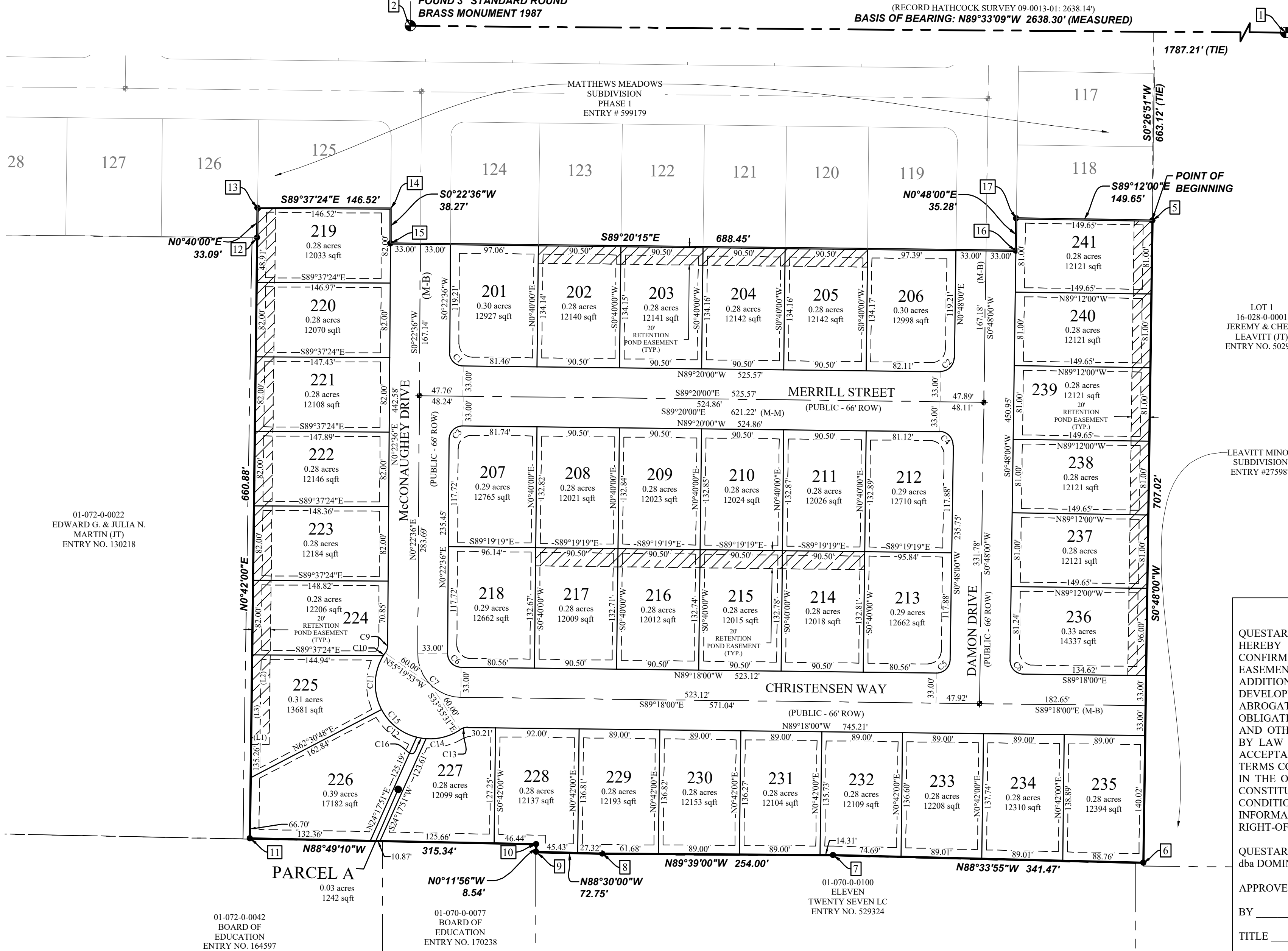
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NORTHWEST CORNER OF  
SECTION 5, T3S, R5W, SLB&M  
FOUND 3" STANDARD ROUND  
BRASS MONUMENT 1987



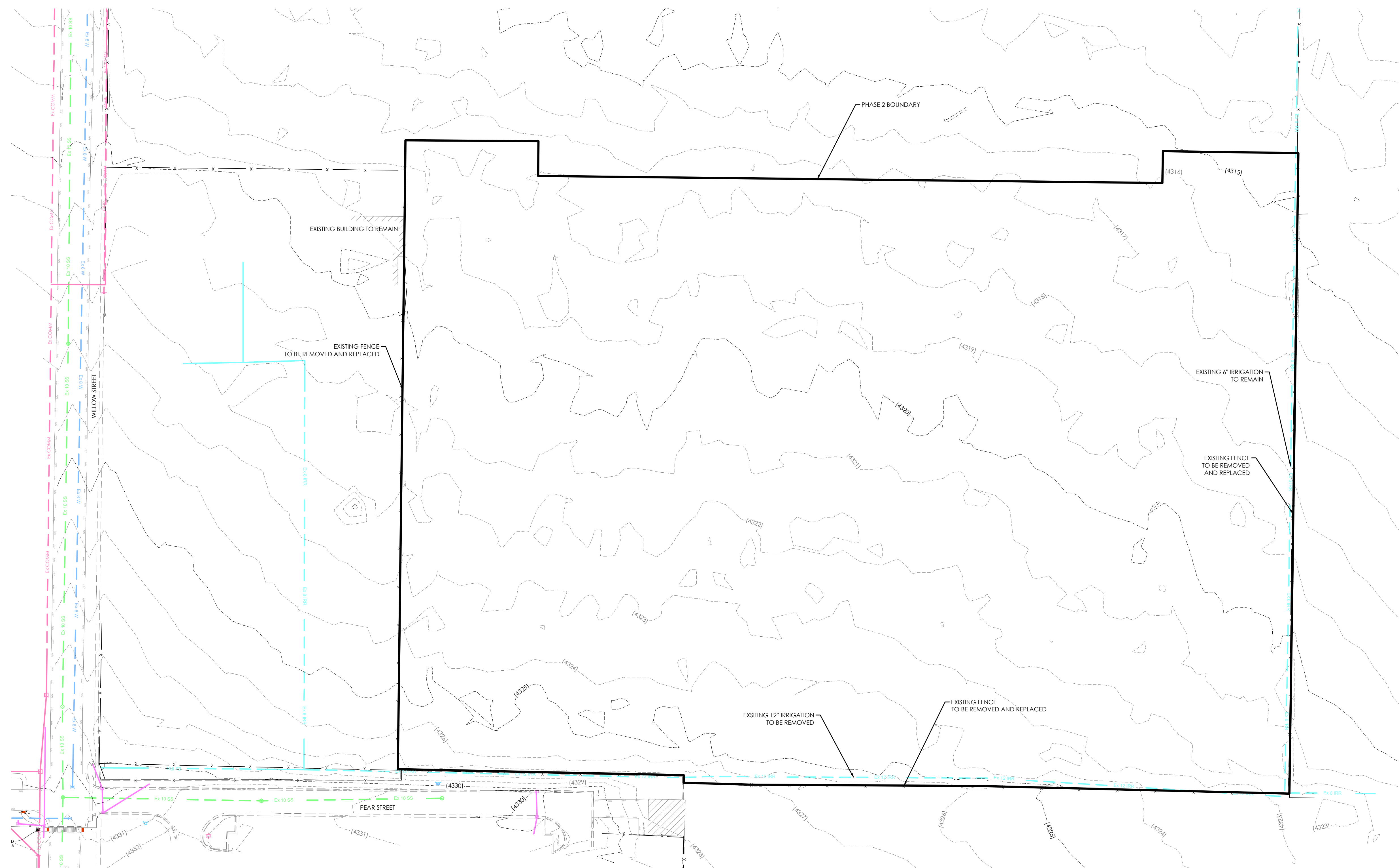
RIGHT OF WAY

TYPICAL PU & DE

N.T.S.







## LEGEND

- |         |                              |
|---------|------------------------------|
| _____   | BOUNDARY                     |
| _____   | ROW                          |
| _____   | CENTERLINE                   |
| _____   | LOT LINE                     |
| -----   | EASEMENT                     |
| XX SD   | XX* STORM DRAIN              |
| XX SS   | XX* SANITARY SEWER           |
| XX W    | XX* CULINARY WATER           |
| XX SW   | XX* SECONDARY WATER          |
| XXXX    | CONTOUR MAJOR                |
| XXXX    | CONTOUR MINOR                |
| Ex SD   | EXIST. STORM DRAIN           |
| Ex SS   | EXIST. SANITARY SEWER        |
| Ex W    | EXIST. CULINARY WATER        |
| Ex SW   | EXIST. SECONDARY WATER       |
| X X X X | EXIST. FENCE                 |
| [XXXX]  | EXIST. CONTOUR MAJOR         |
| [XXXX]  | EXIST. CONTOUR MINOR         |
| +       | SIGN                         |
| ⊕       | STREET LIGHT                 |
| ⊕       | SD MH, INLET, AND COMBO      |
| ⊕       | SEWER MANHOLE                |
| ⊕       | SECONDARY METER, WATER METER |
| ⊕       | CULINARY VALVE, TEE & BEND   |
| ⊕       | SECONDARY VALVE, TEE & BEND  |
| ⊕       | WATER BLOW-OFF               |
| ⊕       | FIRE HYDRANT                 |
| ⊕       | STREET MONUMENT (TO BE SET)  |
| ⊕       | EXIST. STREET MONUMENT       |
| ⊕       | EXIST. SD INLET & MH         |
| ⊕       | EXIST. SEWER MH              |
| ⊕       | EXIST. VALVE, TEE, & BEND    |
| ⊕       | EXIST. FIRE HYDRANT          |
| ⊕       | SPOT ELEVATION               |



GRAPHIC SCALE



( IN FEET )  
1 inch = 60 ft.



Know what's **below**.  
Call 811 before you dig.



MATTHEWS MEADOWS SUBDIVISION PHASE 2  
GRANTSVILLE, UT  
EXISTING CONDITIONS

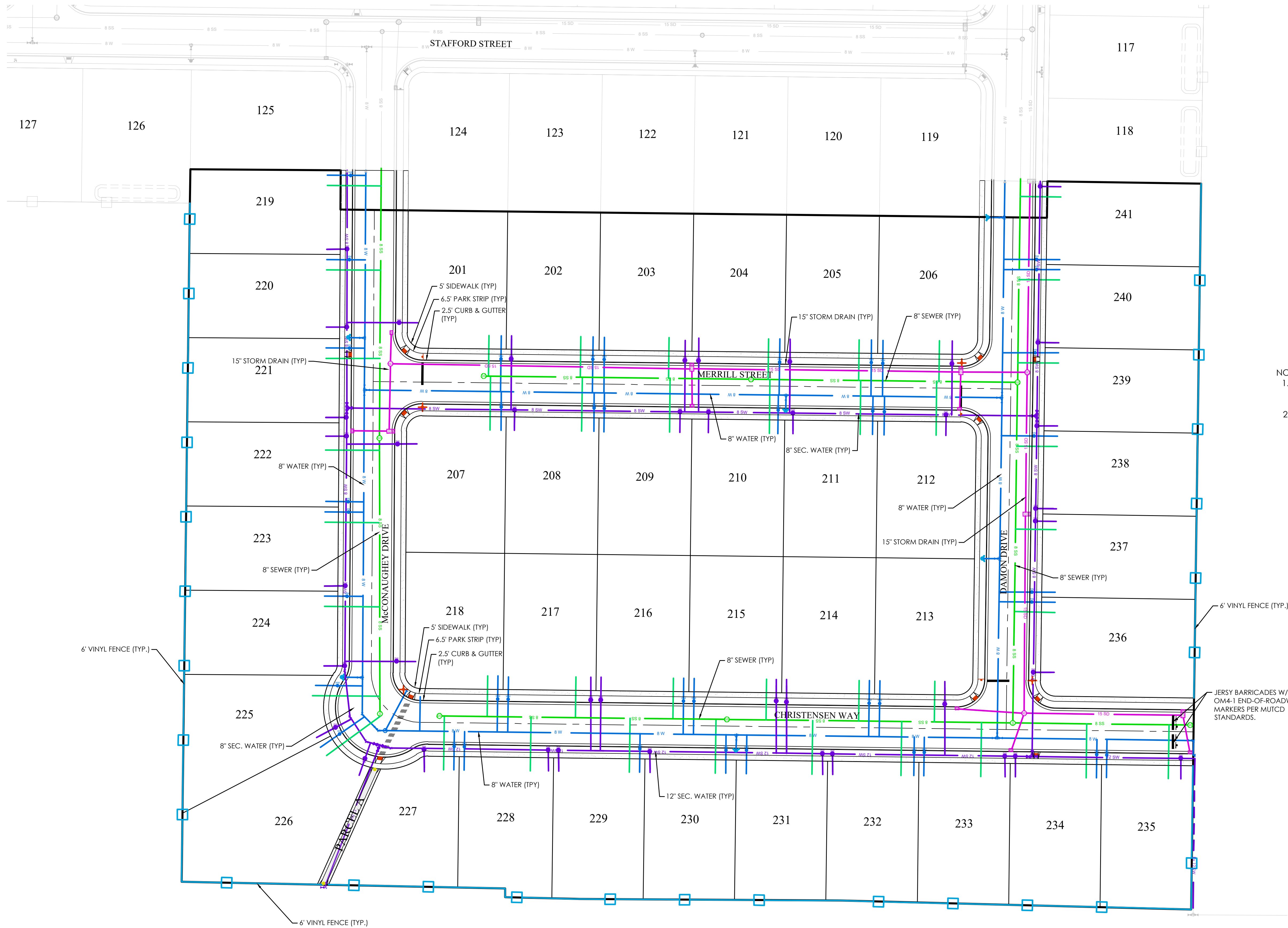
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5	04-08-2006	04-08-2006
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## EXISTING CONDITIONS

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Date: 04/03/24	Job #: 23-0012

C3

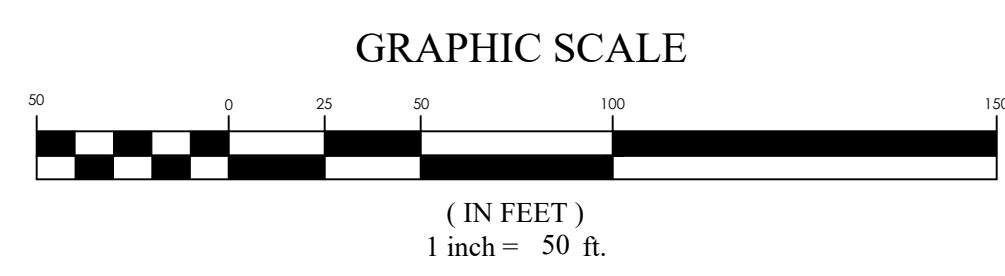
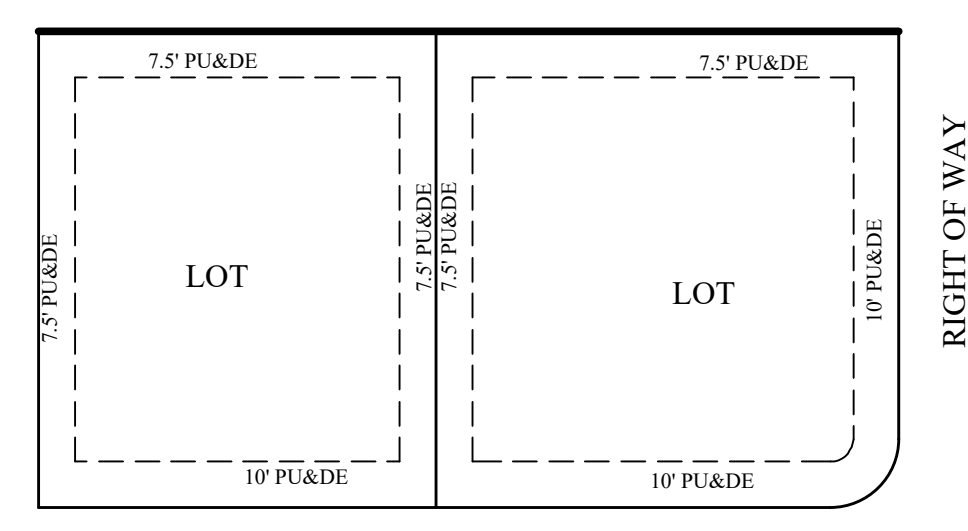




**LEGEND**

---	BOUNDARY
---	ROW
---	CENTERLINE
---	LOT LINE
---	EASEMENT
XX SD	XX" STORM DRAIN
XX SS	XX" SANITARY SEWER
XX W	XX" CULINARY WATER
XX SW	XX" SECONDARY WATER
XXXX	CONTOUR MAJOR
XXXX	CONTOUR MINOR
XXXX	EXIST. STORM DRAIN
XXXX	EXIST. SANITARY SEWER
XXXX	EXIST. CULINARY WATER
XXXX	EXIST. FENCE
XXXX	EXIST. CONTOUR MAJOR
XXXX	EXIST. CONTOUR MINOR
+	SIGN
+	STREET LIGHT
+	SD MH, INLET, AND COMBO
+	SEWER MANHOLE
+	SECONDARY METER, WATER METER
+	CULINARY VALVE, TEE & BEND
+	SECONDARY VALVE, TEE & BEND
+	WATER BLOW-OFF
+	FIRE HYDRANT
+	STREET MONUMENT (TO BE SET)
+	EXIST. STREET MONUMENT
+	EXIST. SD INLET & MH
+	EXIST. SEWER MH
+	EXIST. VALVE, TEE, & BEND
+	EXIST. FIRE HYDRANT
+	SPOT ELEVATION

- NOTES:
1. VERIFICATION NEEDED FOR LOCATION AND ELEVATION OF UTILITIES AND ROAD IMPROVEMENTS UPON COMPLETION OF CONSTRUCTION OF MATTHEWS MEADOWS PHASE 1.
  2. ALL INFRASTRUCTURE SHALL BE CONSTRUCTED PER APWA 2017 MANUAL OF STANDARD PLANS EXCEPT THAT WATER SHALL BE CONSTRUCTED PER CITY STANDARD DETAILS AND SPECIFICATIONS. SEE GRANTSVILLE CITY MODIFICATIONS TO APWA PLAN DETAILS, SHEET D8.



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6949 S. HIGH TECH DRIVE, SUITE 200  
MIDVALE, UTAH 84047 PH: (801) 352-0075  
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**MATTHEWS MEADOWS SUBDIVISION PHASE 2**  
**GRANTSVILLE, UT**  
**OVERALL SITE PLAN**

REVISION BLOCK	
#	DESCRIPTION
1	
2	
3	
4	
5	
6	

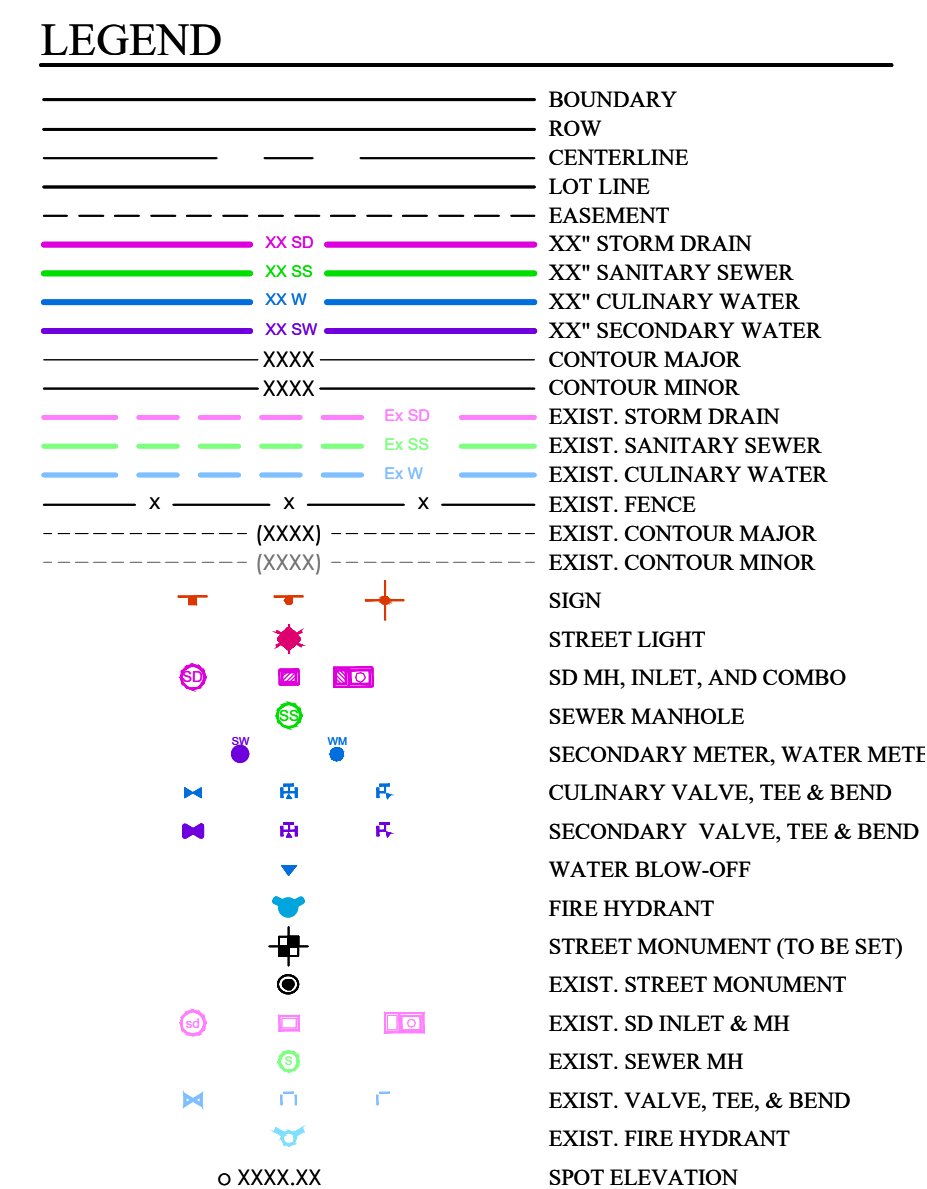
**OVERALL SITE PLAN**

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Sheet:	C4

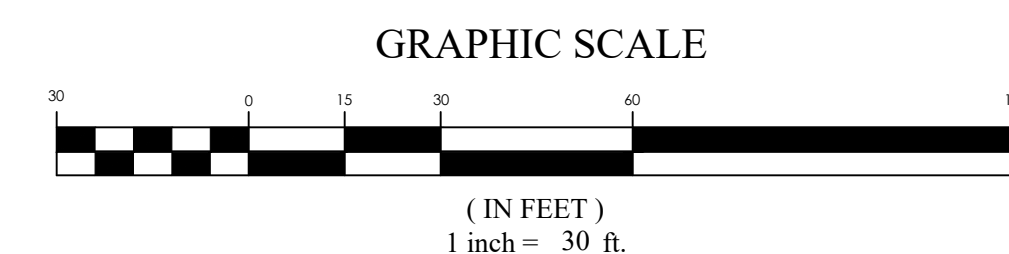


z:\2023\230012\matthews meadows phase 2\design\23-0012\_C4\overall site plan.dwg





- NOTES:
1. VERIFICATION NEEDED FOR LOCATION AND ELEVATION OF UTILITIES AND ROAD IMPROVEMENTS UPON COMPLETION OF CONSTRUCTION OF MATTHEWS MEADOWS PHASE 1.



MATTHEWS MEADOWS SUBDIVISION PHASE 2  
GRANTSVILLE, UT  
SITE PLAN

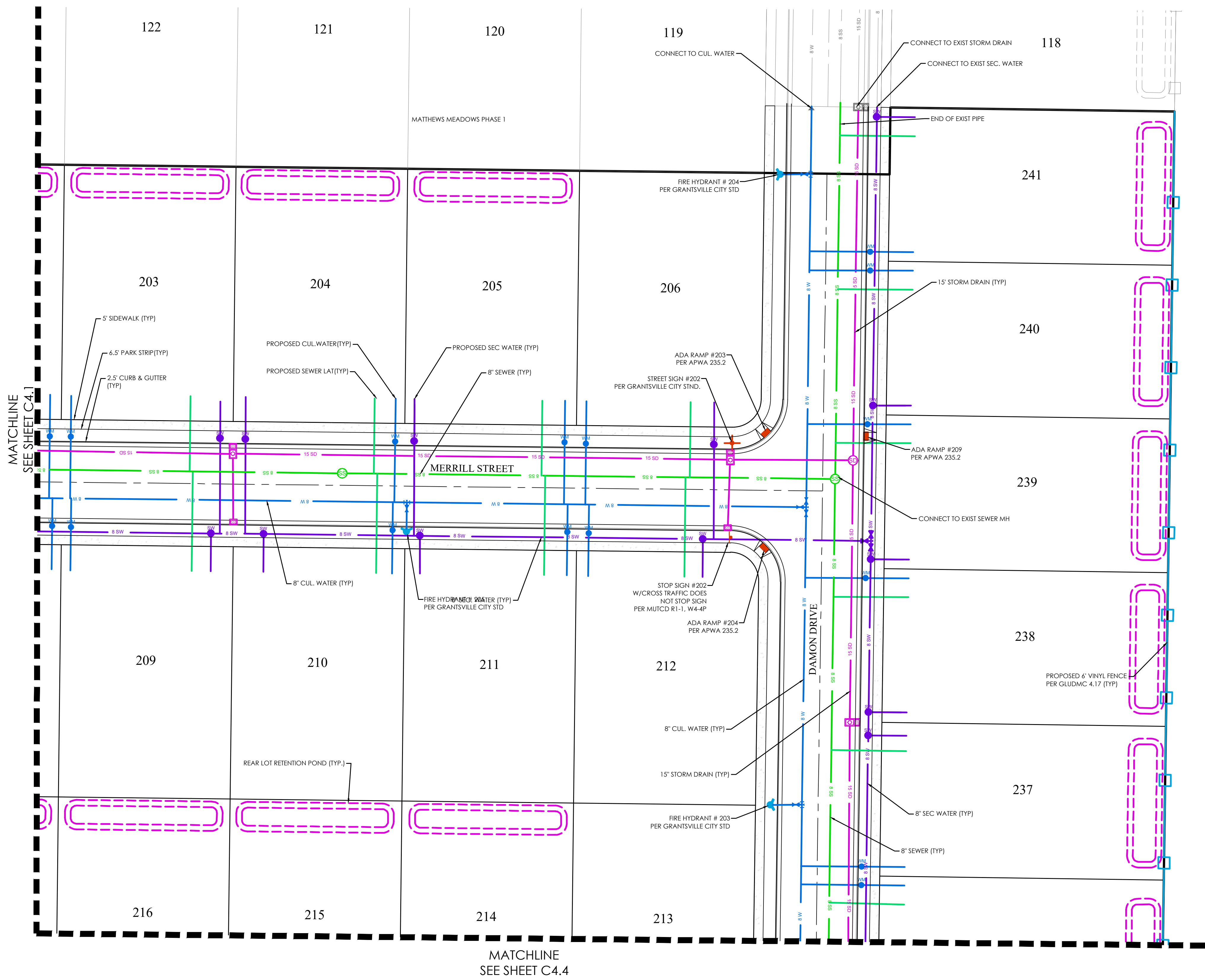
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## SITE PLAN

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Date: 04/03/24	Job #: 23-0012

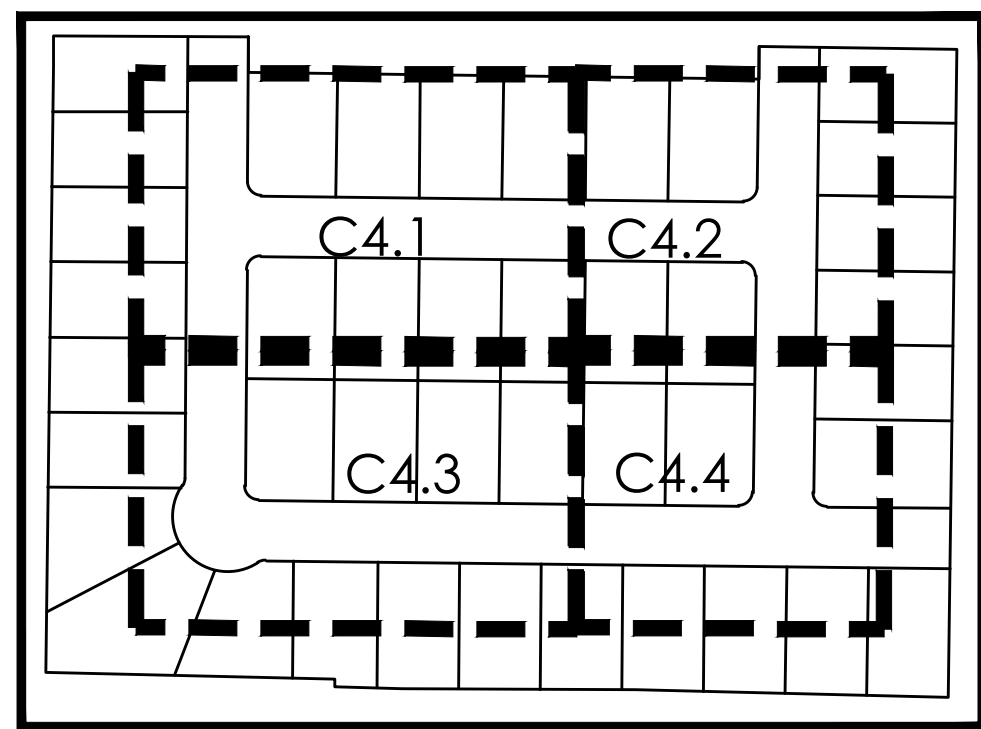
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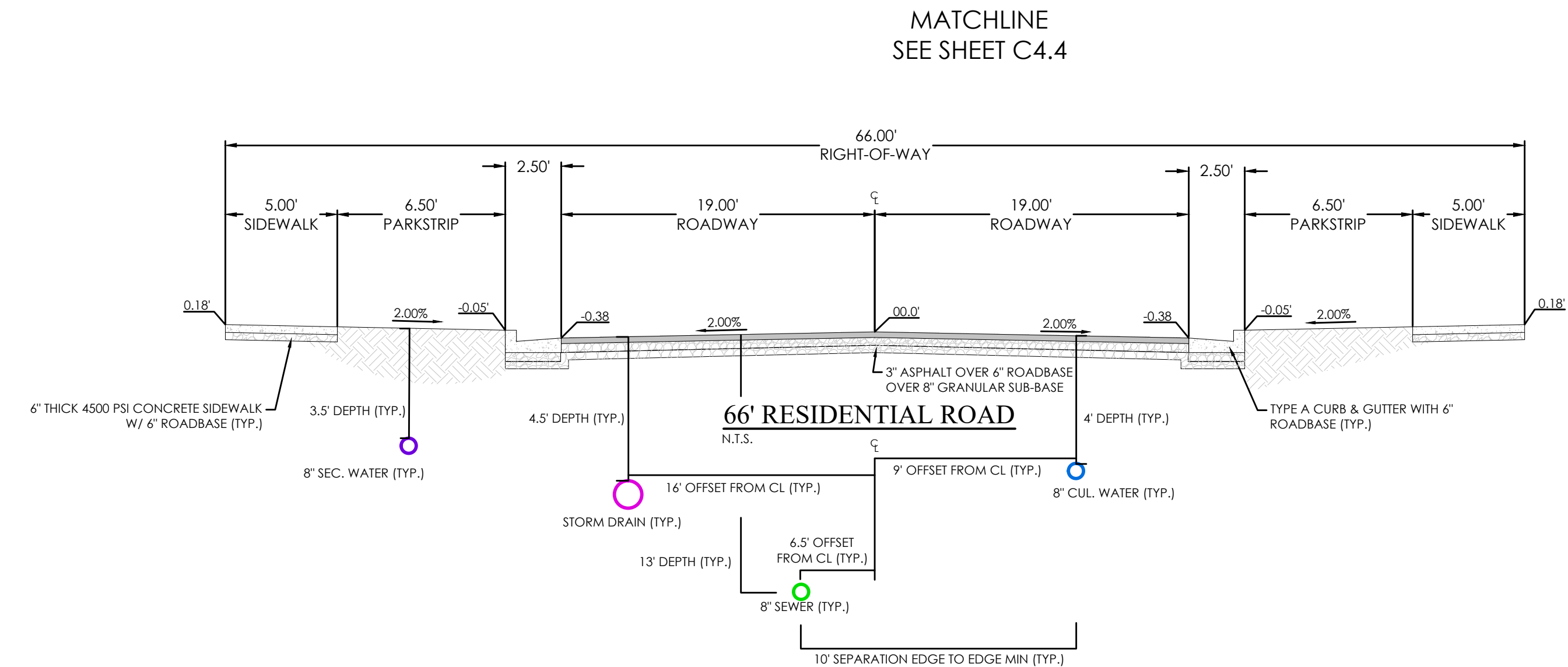


**LEGEND**

---	BOUNDARY
---	ROW
---	CENTERLINE
---	LOT LINE
---	EASEMENT
XX SD	XX" STORM DRAIN
XX SS	XX" SANITARY SEWER
XX W	XX" CULINARY WATER
XX SW	XX" SECONDARY WATER
XXXX	CONTOUR MAJOR
XXXX	CONTOUR MINOR
---	EXIST. STORM DRAIN
---	EXIST. SANITARY SEWER
---	EXIST. CULINARY WATER
---	EXIST. SECONDARY WATER
---	EXIST. FENCE
XXXX	EXIST. CONTOUR MAJOR
XXXX	EXIST. CONTOUR MINOR
+	SIGN
+	STREET LIGHT
+	SD MH, INLET, AND COMBO
+	SEWER MANHOLE
+	SECONDARY METER, WATER METER
+	CULINARY VALVE, TEE & BEND
+	SECONDARY VALVE, TEE & BEND
+	WATER BLOW-OFF
+	FIRE HYDRANT
+	STREET MONUMENT (TO BE SET)
+	EXIST. STREET MONUMENT
+	EXIST. SD INLET & MH
+	EXIST. SEWER MH
+	EXIST. VALVE, TEE, & BEND
+	EXIST. FIRE HYDRANT
+	SPOT ELEVATION



NOTES:  
1. VERIFICATION NEEDED FOR LOCATION AND ELEVATION OF UTILITIES AND ROAD IMPROVEMENTS UPON COMPLETION OF CONSTRUCTION OF MATTHEWS MEADOWS PHASE 1.



**GRAPHIC SCALE**

(IN FEET)  
1 inch = 30 ft.

**REVISION BLOCK**

NO.	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		



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MIDVALE, UTAH 84047 PH: (801) 352-0075  
www.focusnh.com



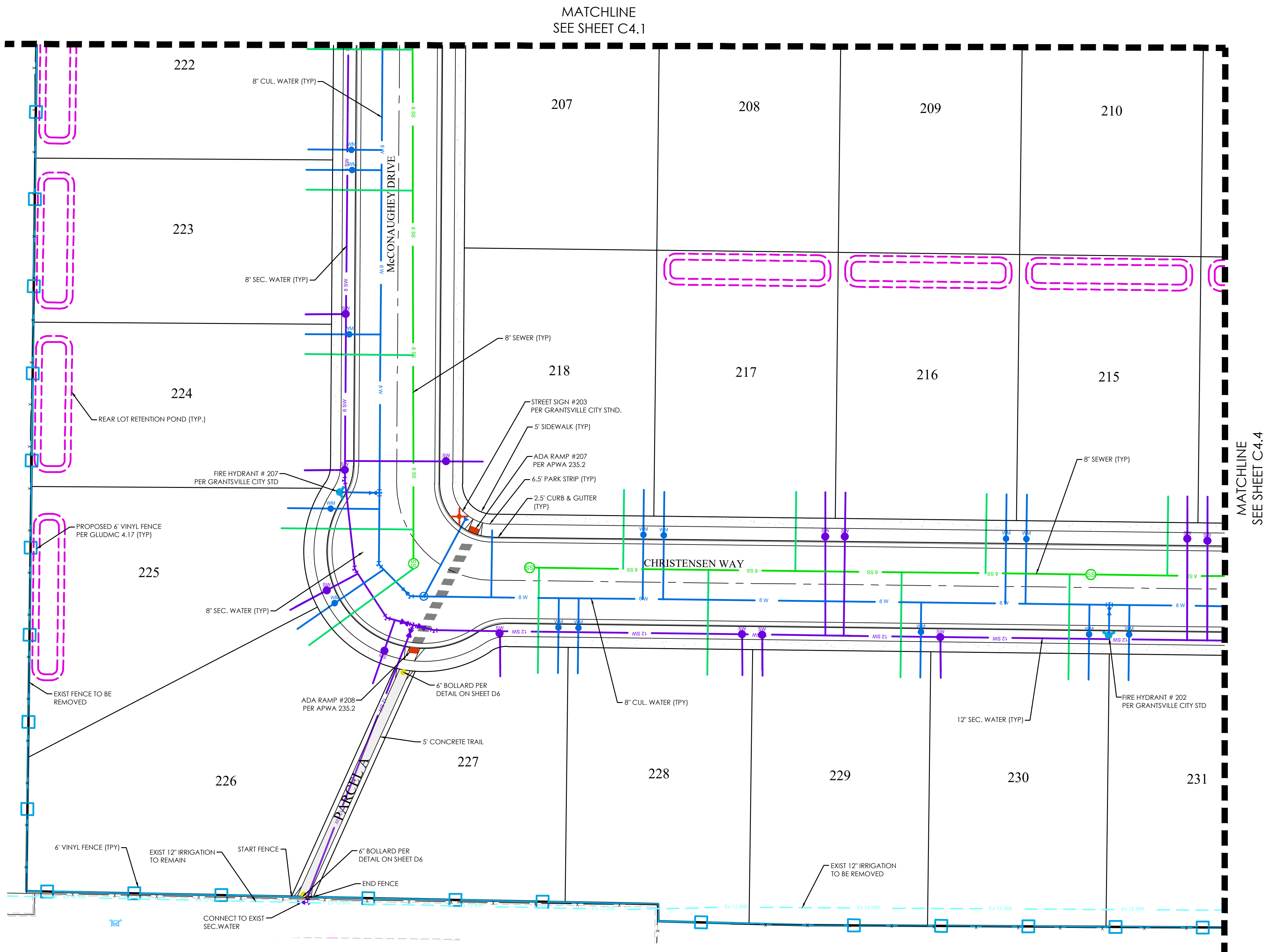
MATTHEWS MEADOWS SUBDIVISION PHASE 2  
GRANTSVILLE, UT  
SITE PLAN

**SITE PLAN**

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Job #: 23-0012  
Sheet: C4.2

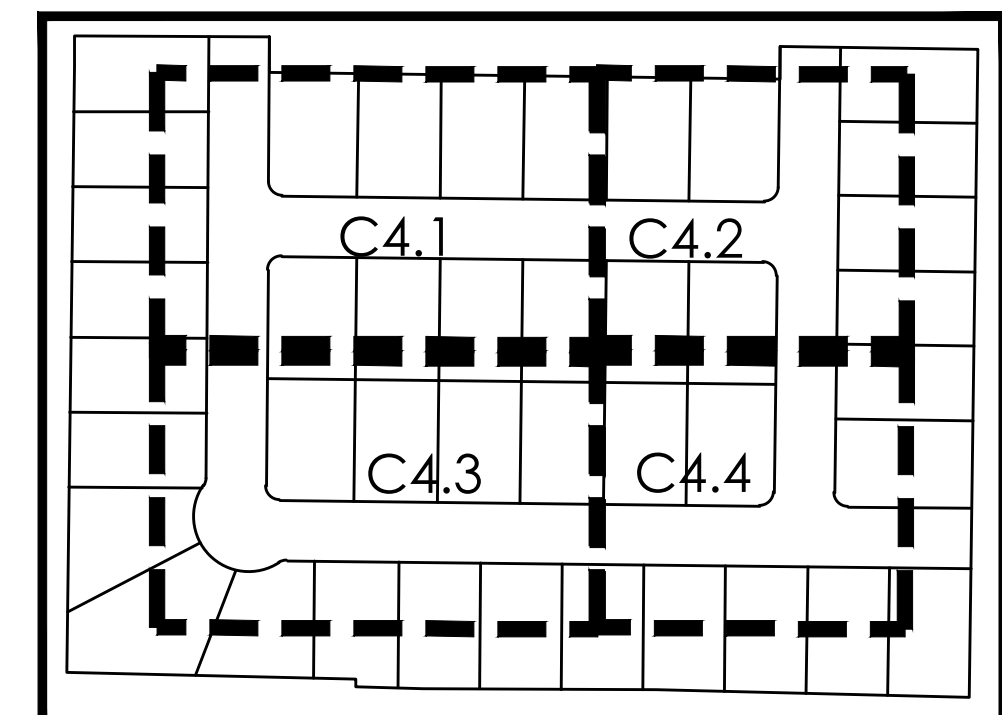
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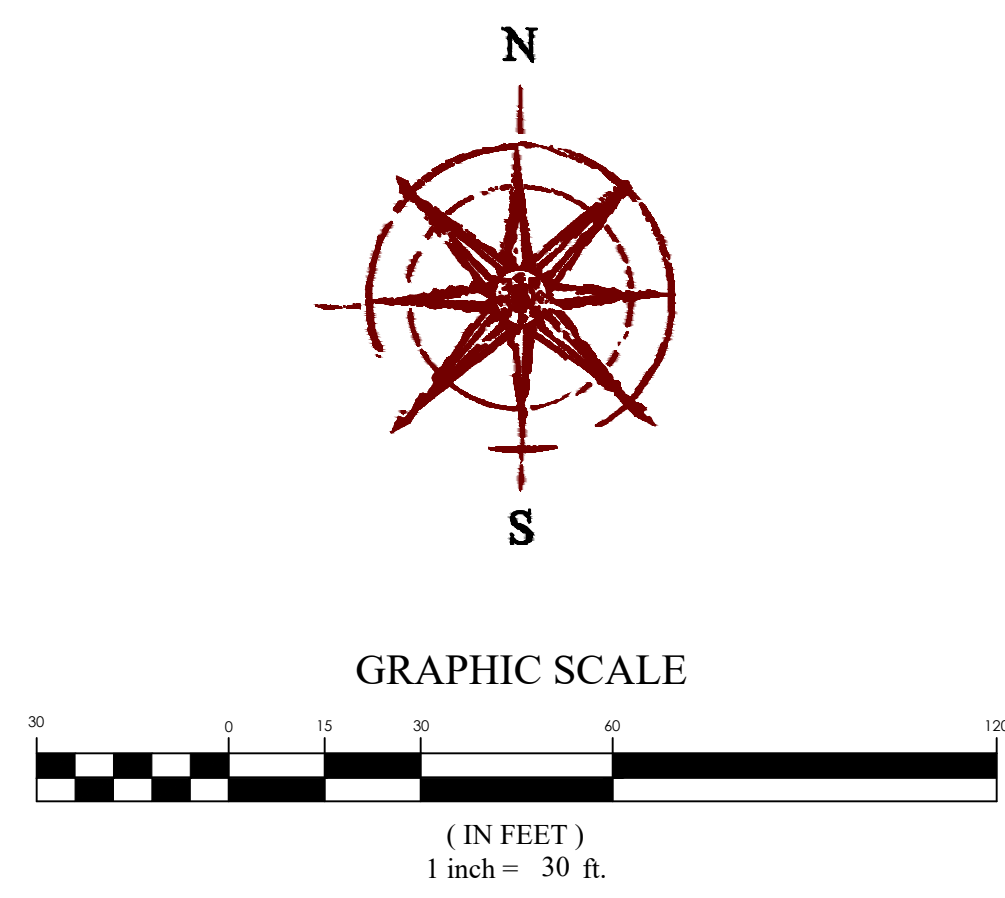
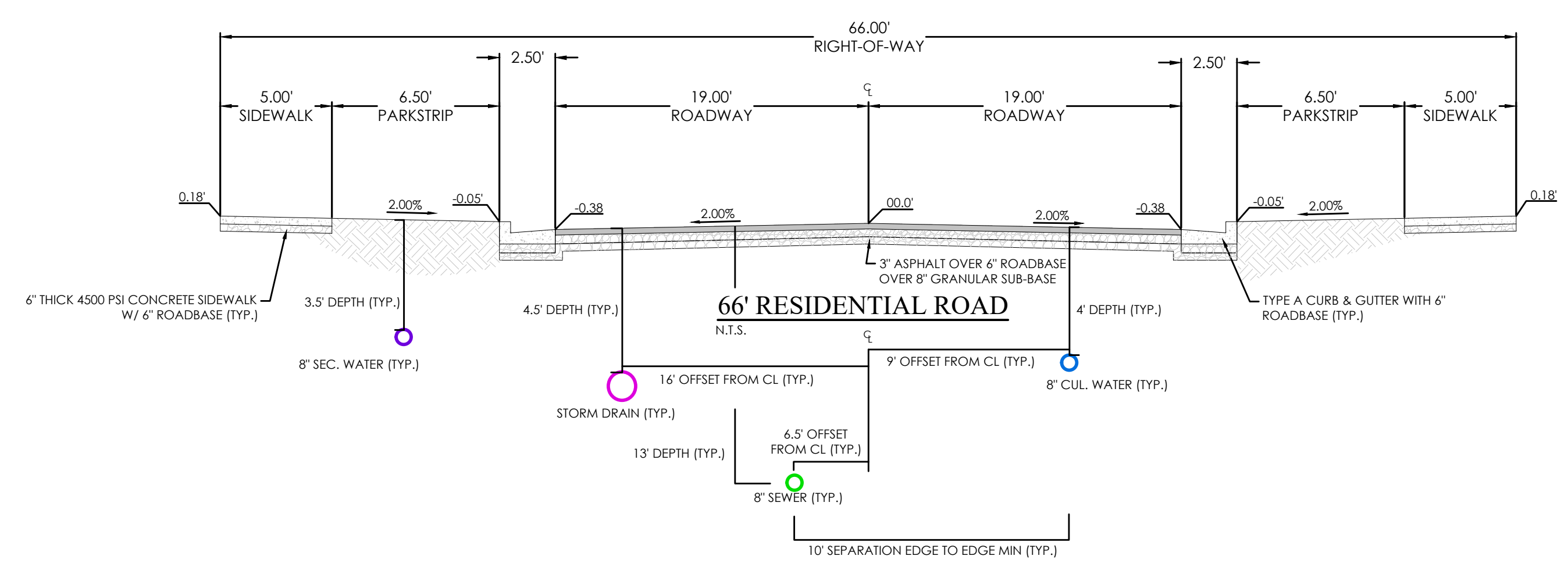


LEGEND

---	BOUNDARY
---	ROW
---	CENTERLINE
---	LOT LINE
---	EASEMENT
XX SD	XX" STORM DRAIN
XX SS	XX" SANITARY SEWER
XX W	XX" CULINARY WATER
XX SW	XX" SECONDARY WATER
XXXX	CONTOUR MAJOR
XXXX	CONTOUR MINOR
---	EXIST. STORM DRAIN
---	EXIST. SANITARY SEWER
---	EXIST. CULINARY WATER
---	EXIST. SECONDARY WATER
---	EXIST. FENCE
XXXX	EXIST. CONTOUR MAJOR
XXXX	EXIST. CONTOUR MINOR
+	SIGN
+	STREET LIGHT
+	SD MH, INLET, AND COMBO
+	SEWER MANHOLE
+	SECONDARY METER, WATER METER
+	CULINARY VALVE, TEE & BEND
+	SECONDARY VALVE, TEE & BEND
+	WATER BLOW-OFF
+	FIRE HYDRANT
+	STREET MONUMENT (TO BE SET)
+	EXIST. STREET MONUMENT
+	EXIST. SD INLET & MH
+	EXIST. SEWER MH
+	EXIST. VALVE, TEE, & BEND
+	EXIST. FIRE HYDRANT
+	SPOT ELEVATION



- NOTES:
1. VERIFICATION NEEDED FOR LOCATION AND ELEVATION OF UTILITIES AND ROAD IMPROVEMENTS UPON COMPLETION OF CONSTRUCTION OF MATTHEWS MEADOWS PHASE 1.
  2. CONSTRUCTION SHALL WORK AROUND SCHOOL SCHEDULE.



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MIDVALE, UTAH 84047 PH: (801) 352-0075  
www.focusuh.com



MATTHEWS MEADOWS SUBDIVISION PHASE 2  
GRANTSVILLE, UT  
SITE PLAN

REVISION BLOCK	
#	DESCRIPTION
1	
2	
3	
4	
5	
6	

**SITE PLAN**

Scale: 1"=30'	Drawn: MEC
Date: 04/03/24	Job #: 23-0012
Sheet:	C4.3

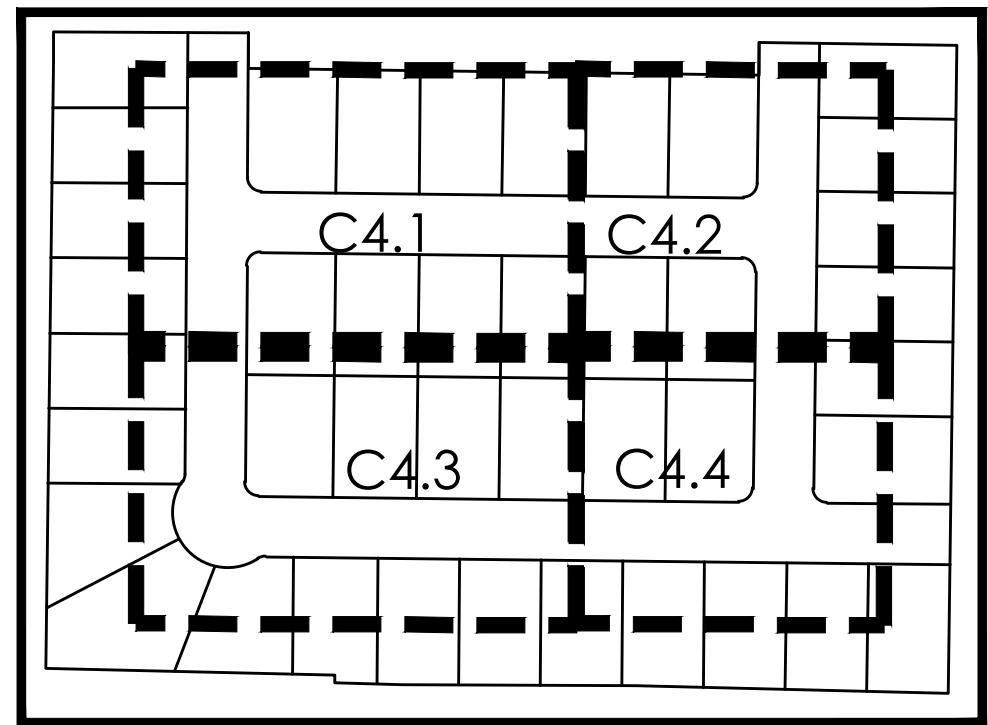
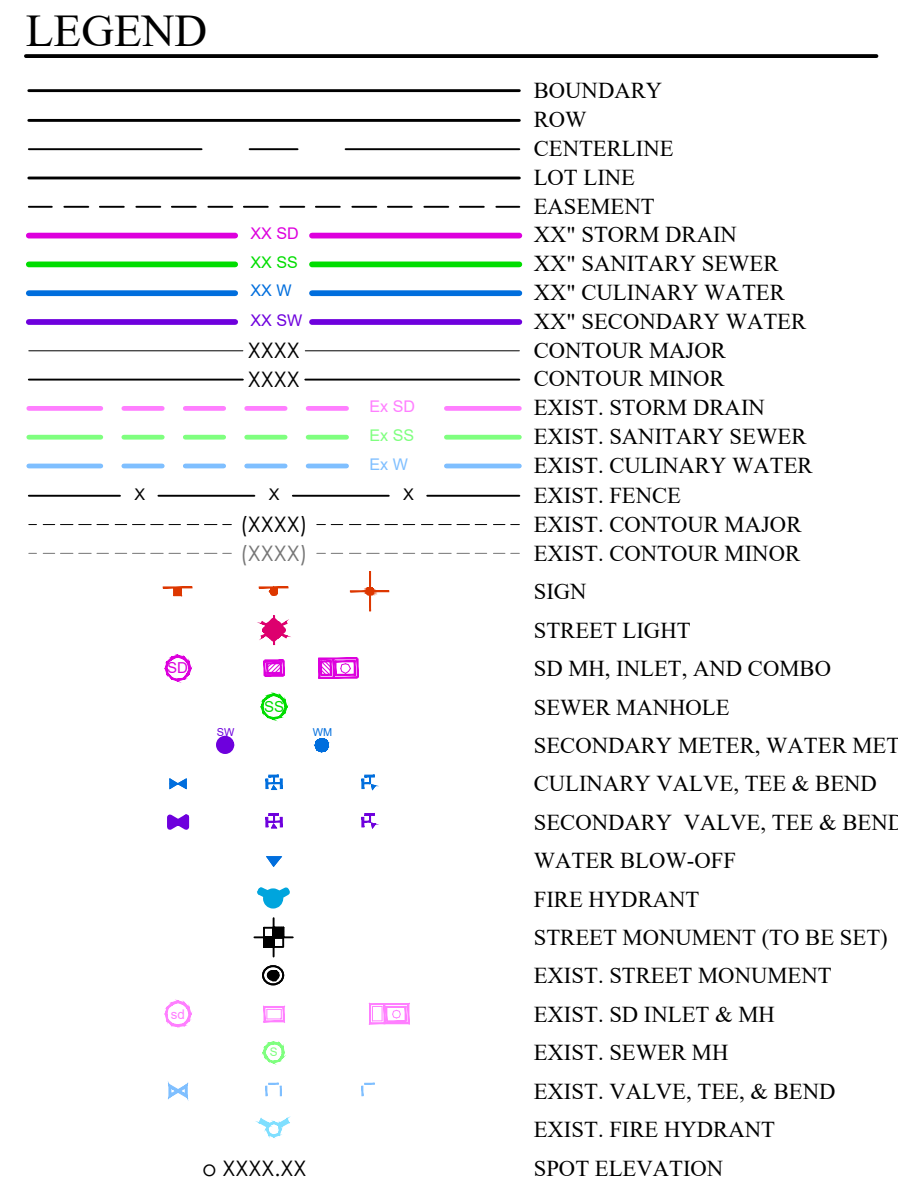
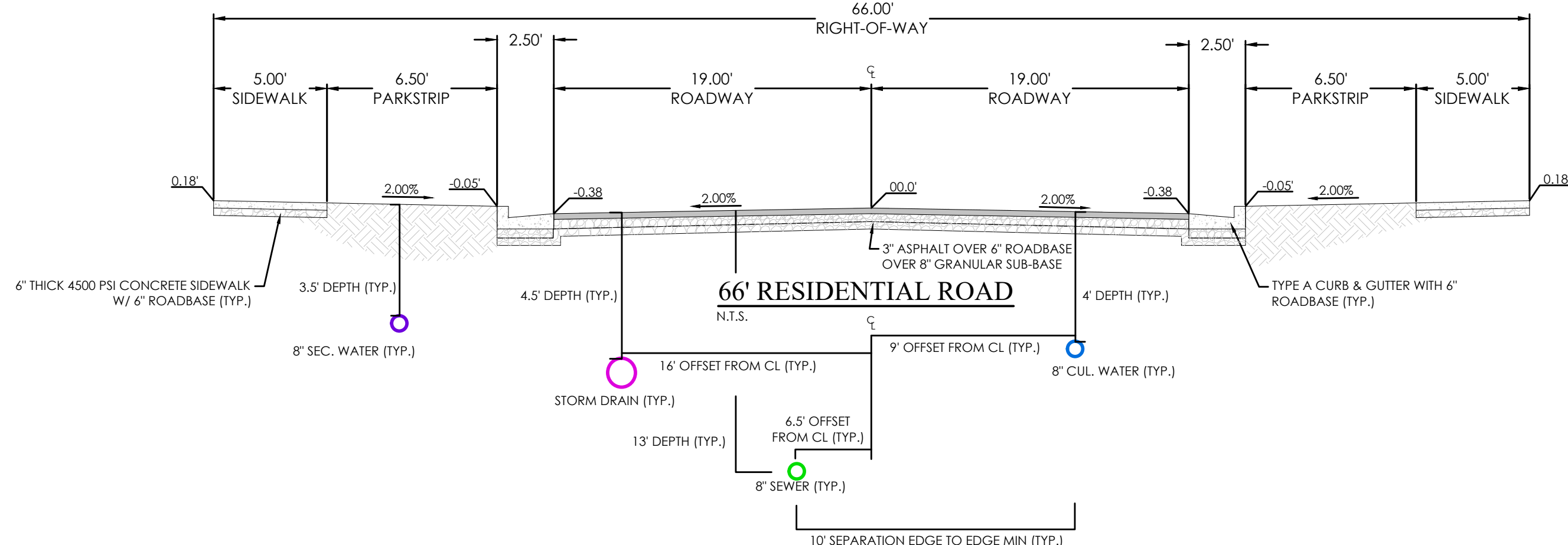
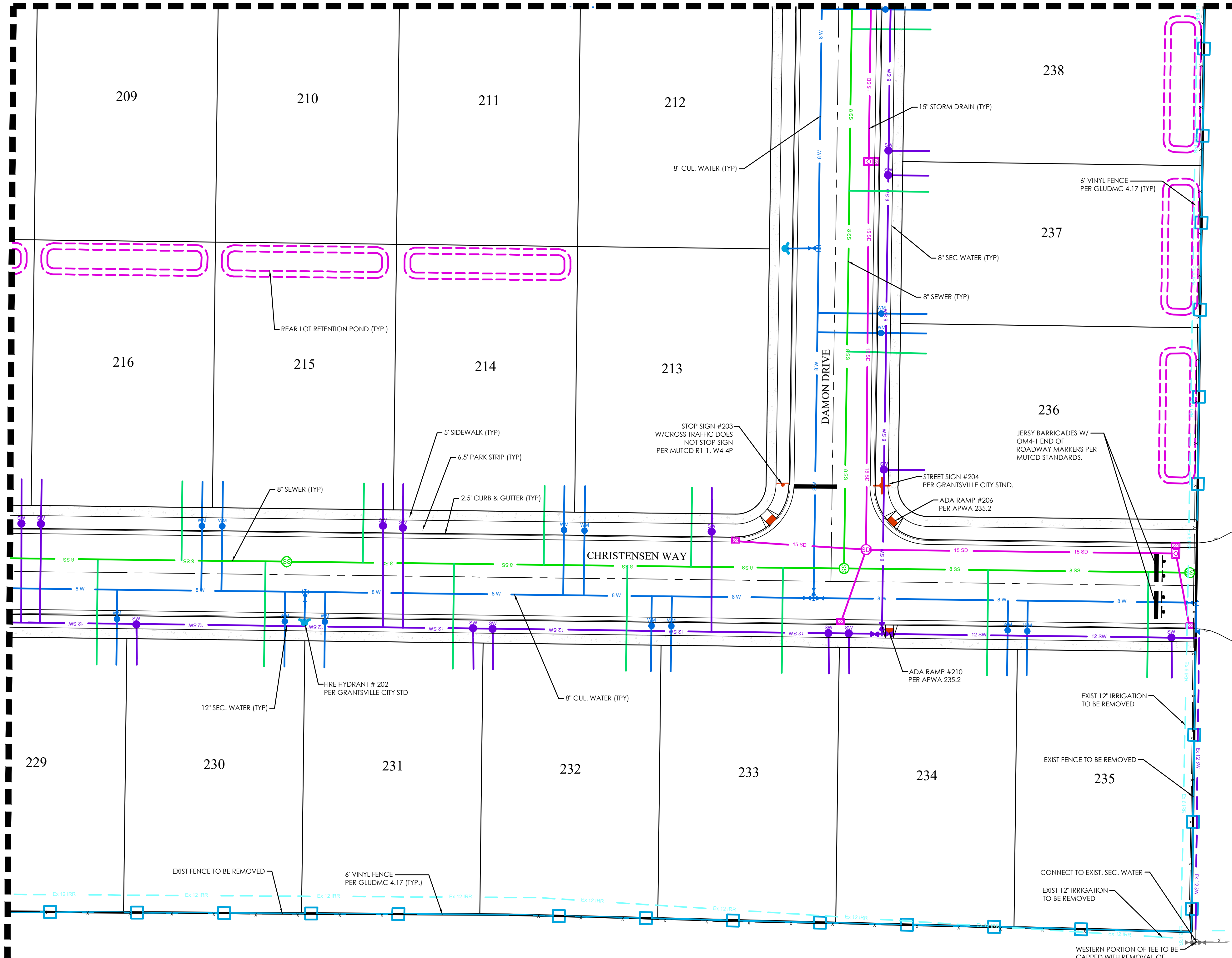


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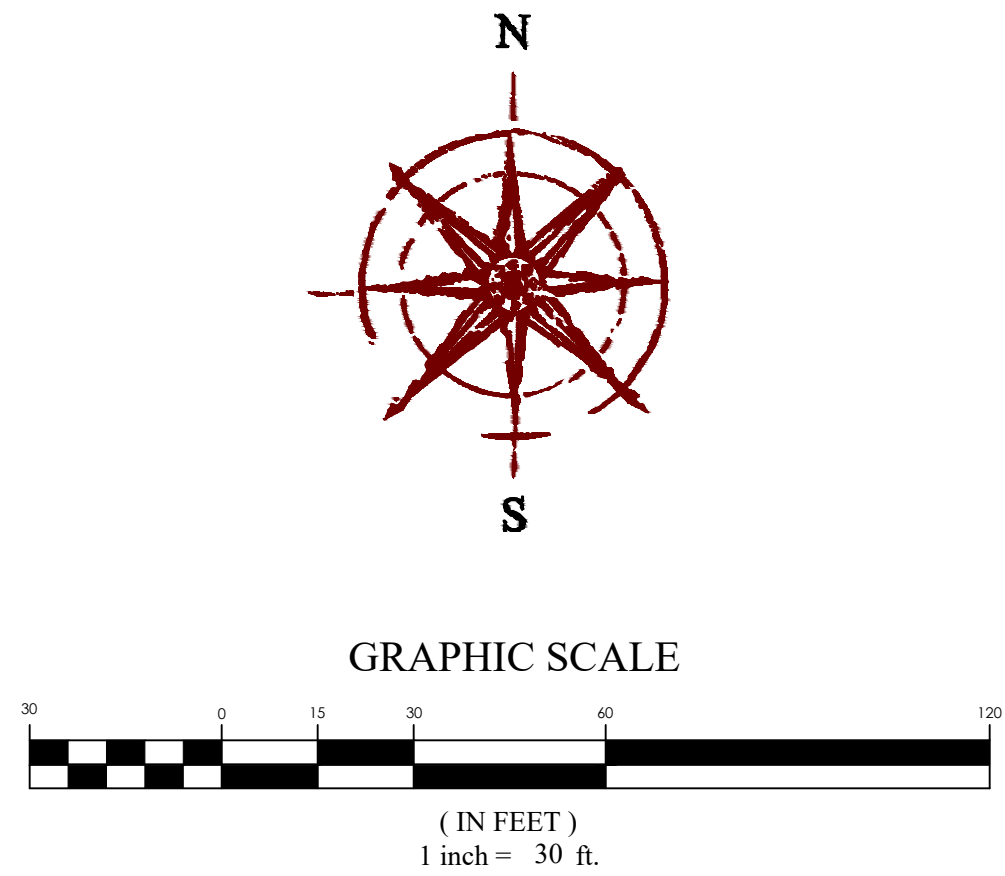


MATCHLINE  
SEE SHEET C4.3

MATCHLINE  
SEE SHEET C4.2



NOTES:  
1. VERIFICATION NEEDED FOR LOCATION AND ELEVATION OF UTILITIES AND ROAD IMPROVEMENTS UPON COMPLETION OF CONSTRUCTION OF MATTHEWS MEADOWS PHASE 1.



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www.focusnh.com



MATTHEWS MEADOWS SUBDIVISION PHASE 2  
GRANTSVILLE, UT  
SITE PLAN

REVISION BLOCK	
DATE	DESCRIPTION
1	
2	
3	
4	
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6	

**SITE PLAN**

Scale: 1"=30'	Drawn: MEC
Date: 04/03/24	Job #: 23-0012
Sheet:	C4.4

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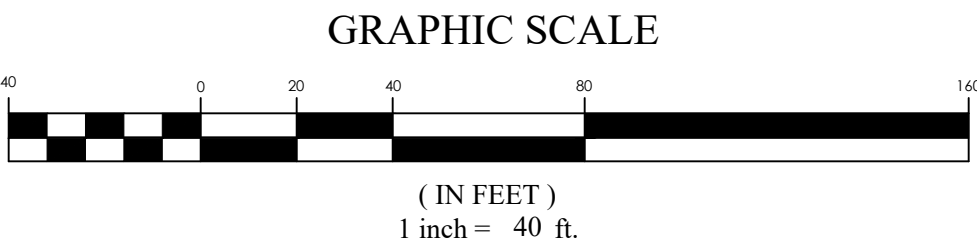
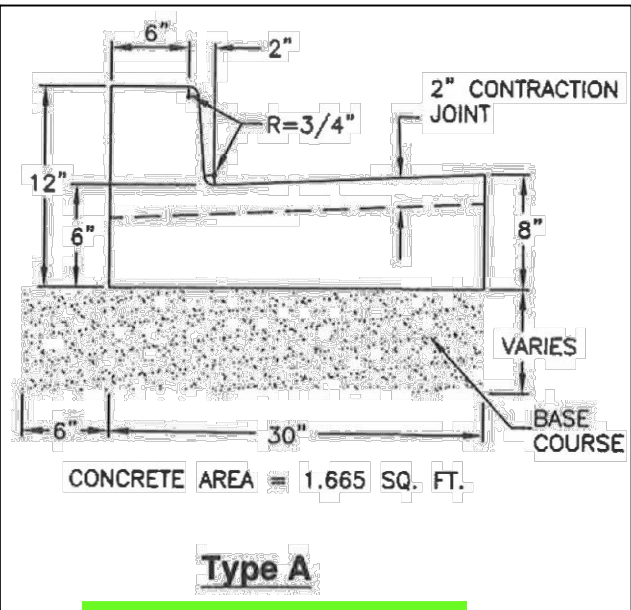


HARDSCAPE LEGEND

- ROAD ASPHALT (3"6")
- APWA TYPE A C&G OR CITY EQUIVALENT
- 6" CONCRETE (SIDEWALK/DRIVEWAY)

HARDSCAPE QUANTITIES

ASPHALT	95,036 SQ. FT
TYPE A C&G	4673 LF
6" CONCRETE	50,553 SQ. FT.



MATTHEWS MEADOWS SUBDIVISION PHASE 2  
GRANTSVILLE, UT  
HARDSCAPE PLAN

REVISION BLOCK	DATE	DESCRIPTION
1		
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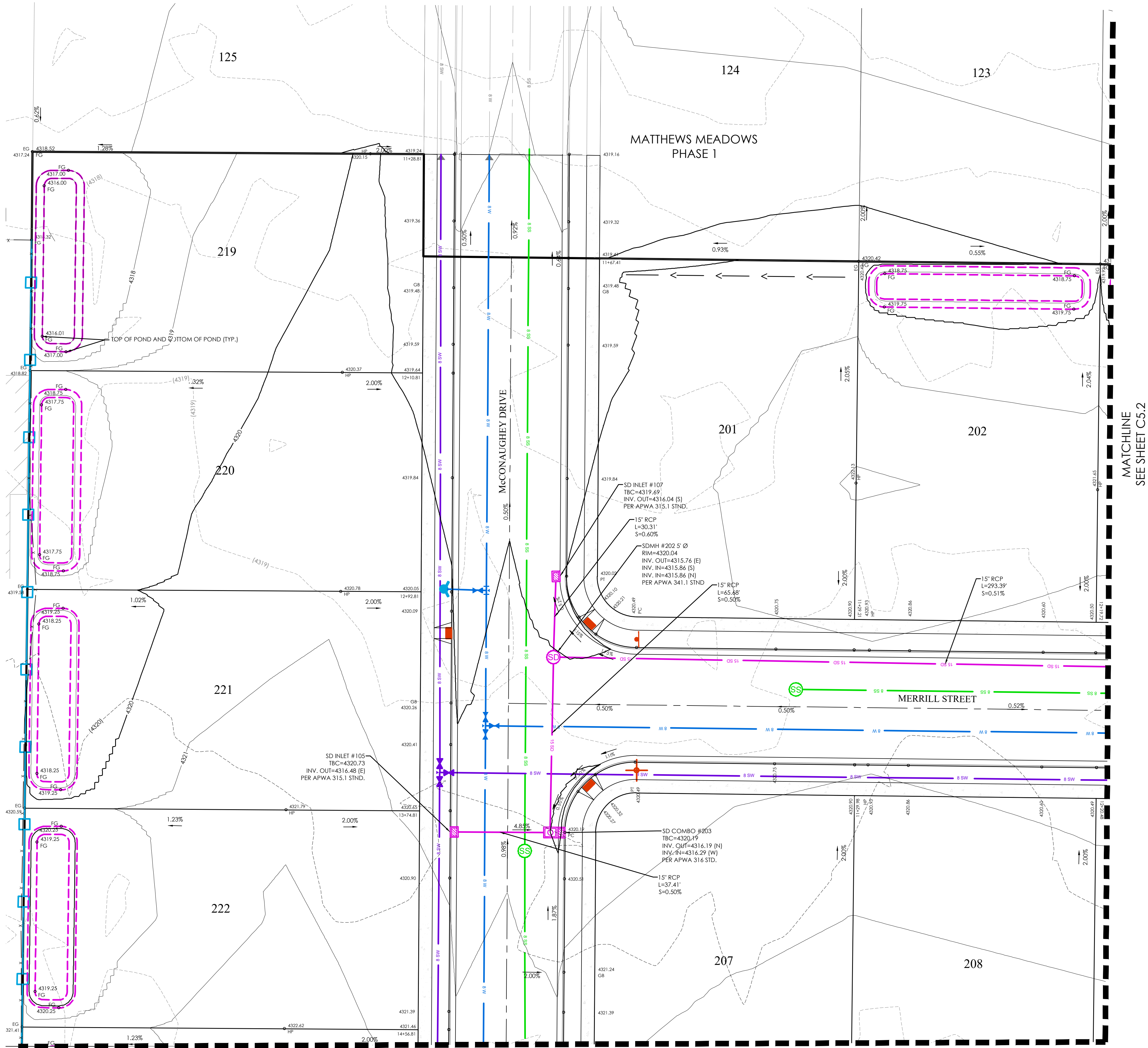
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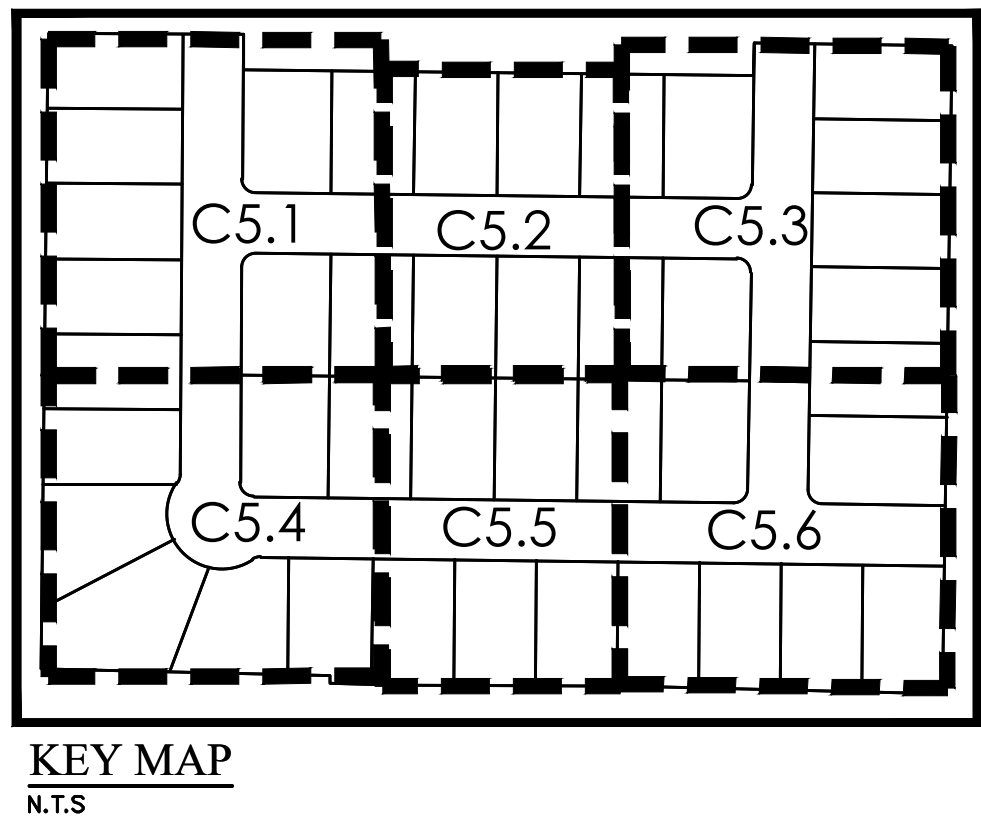






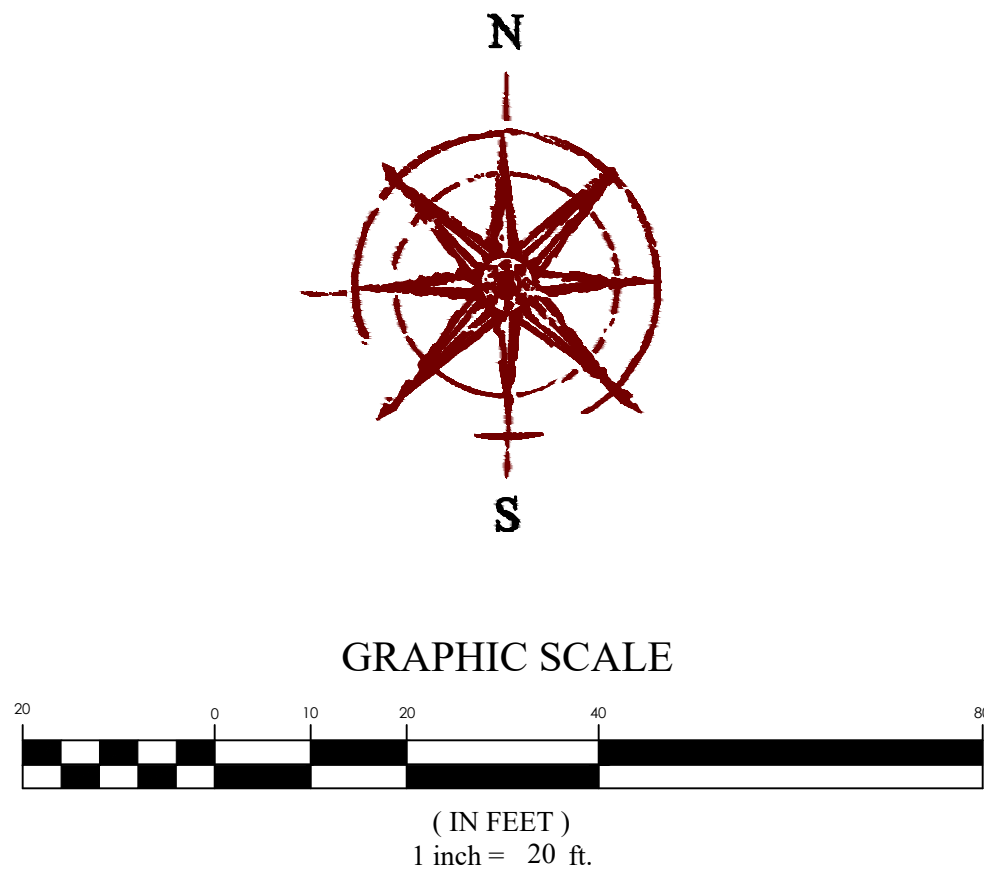
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---	SECTION LINE
---	EXIST. EASEMENT LINE
---	EXIST. PROPERTY LINE
---	EXIST. CONTOUR MAJOR
---	EXIST. CONTOUR MINOR
---	EXIST. STORM DRAIN
---	EXIST. SANITARY SEWER
---	EXIST. CULINARY WATER
---	EXIST. SECONDARY WATER
---	EXIST. IRRIGATION
---	EXIST. NATURAL GAS
---	EXIST. COMMUNICATIONS
---	EXIST. OVERHEAD POWER
---	EXIST. UNDERGROUND POWER
---	EXIST. FENCE
---	EXIST. IRRIGATION DITCH FLOWLINE
---	EXIST. CONCRETE, CURB & GUTTER, SIDEWALK
---	EXIST. EDGE OF ASPHALT
---	SECTION MONUMENT (FOUND)
---	SECTION MONUMENT (NOT FOUND)
---	BOUNDARY MARKER
---	EXIST. SD INLET, MANHOLE & COMBO BOX
---	EXIST. SEWER MANHOLE
---	EXIST. WATER VALVE & WATER METER
---	EXIST. FIRE HYDRANT
---	EXIST. IRRIGATION BOX
---	EXIST. GAS VALVE & GAS METER
---	EXIST. STREET LIGHT
---	EXIST. POWER POLE
---	EXIST. ELECTRICAL BOX
---	EXIST. COMMUNICATIONS BOX
---	EXIST. SPOT ELEVATION
---	DEED BOOK/PAGE PER XXXX COUNTY RECORDS
---	XXXX COUNTY PARCEL No.



NOTES:  
1. SD PIPE SHALL BE RCP OR HIGH PERFORMANCE STORM POLYPROPYLENE PIPE (HP STORM).

WITH CENTERLINE SLOPES THAT ARE DESIGNED AT MINIMUM 0.5% CONTRACTOR TO VERIFY THAT CURB & GUTTER, FLOW LINE DOES NOT SLOPE LESS THAN 0.5%.



**MATTHEWS MEADOWS SUBDIVISION PHASE 2**  
**GRANTSVILLE, UT**  
**GRADING & DRAINAGE PLAN**

REVISION BLOCK	DATE	DESCRIPTION
1		
2		
3		
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6		

**GRADING & DRAINAGE PLAN**

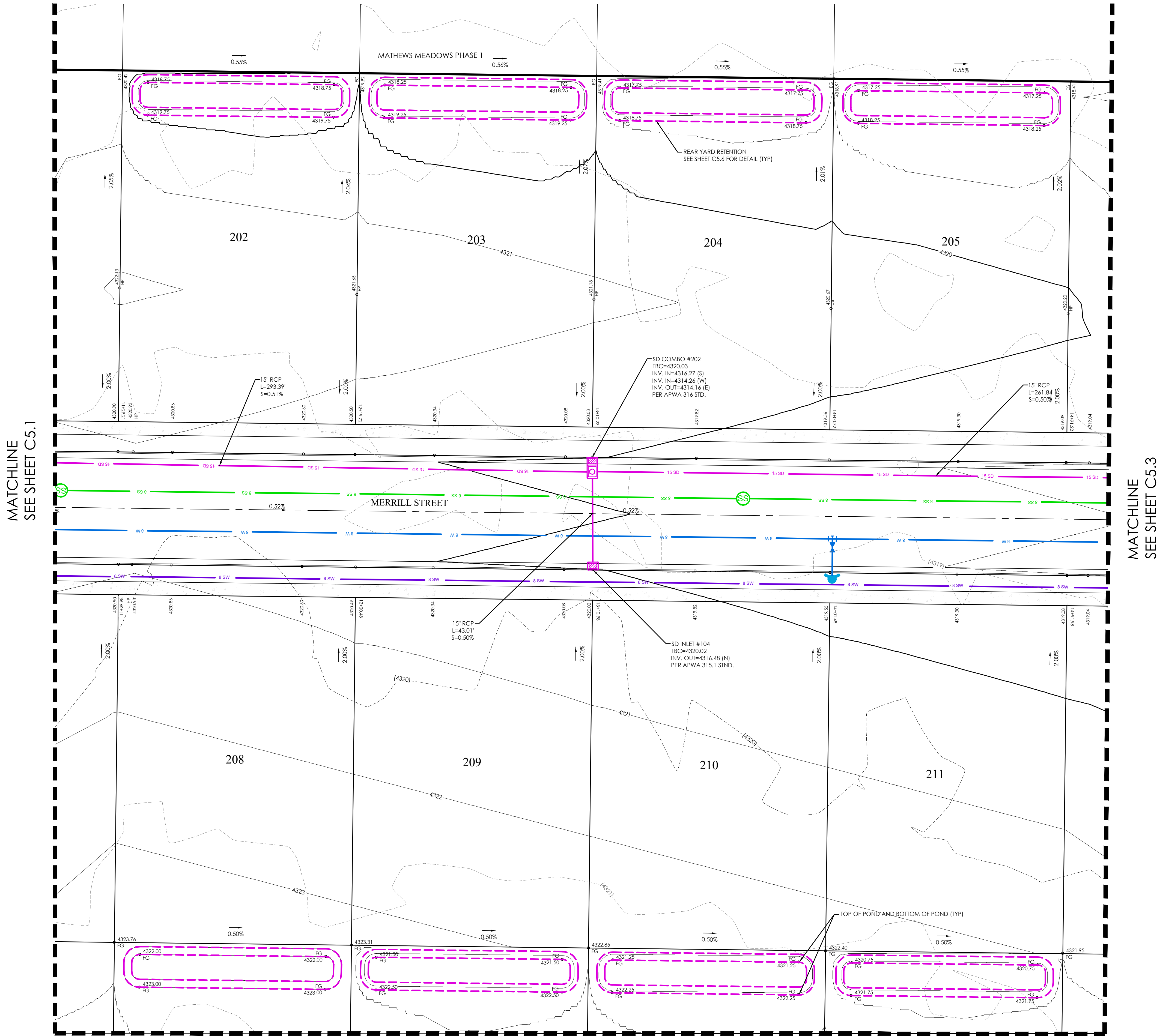
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Date: 04/03/24  
Sheet: C5.1

Drawn: MEC  
Job #: 23-0012

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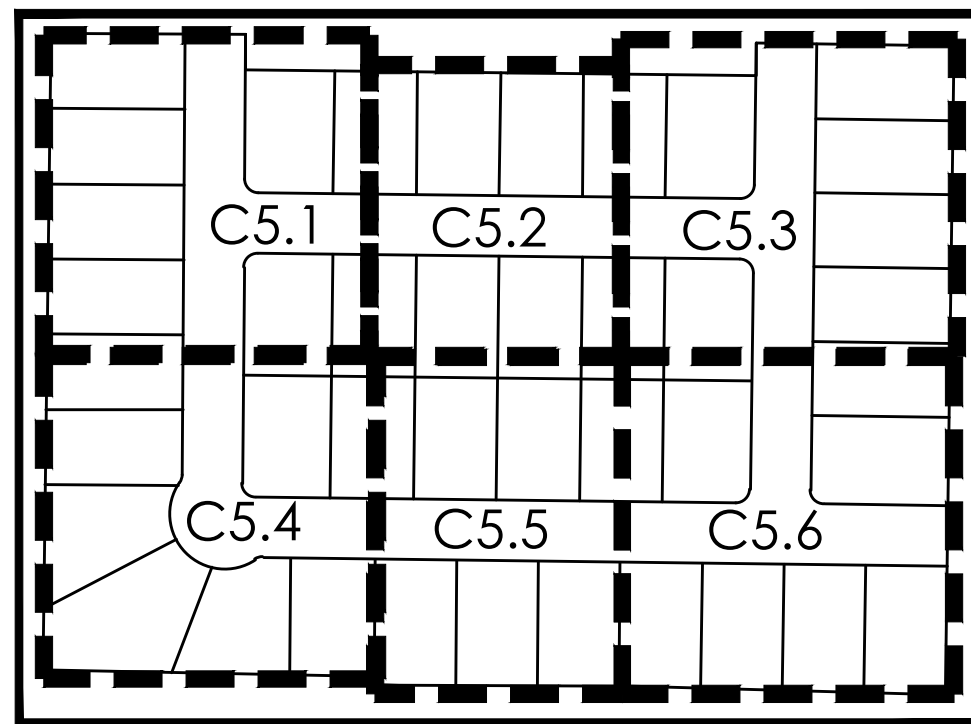
STATE OF UTAH  
THOMAS M. ROMNEY  
No. 8028950-2202  
EXPIRES 12/31/24  
LICENSED PROFESSIONAL ENGINEER





LEGEND

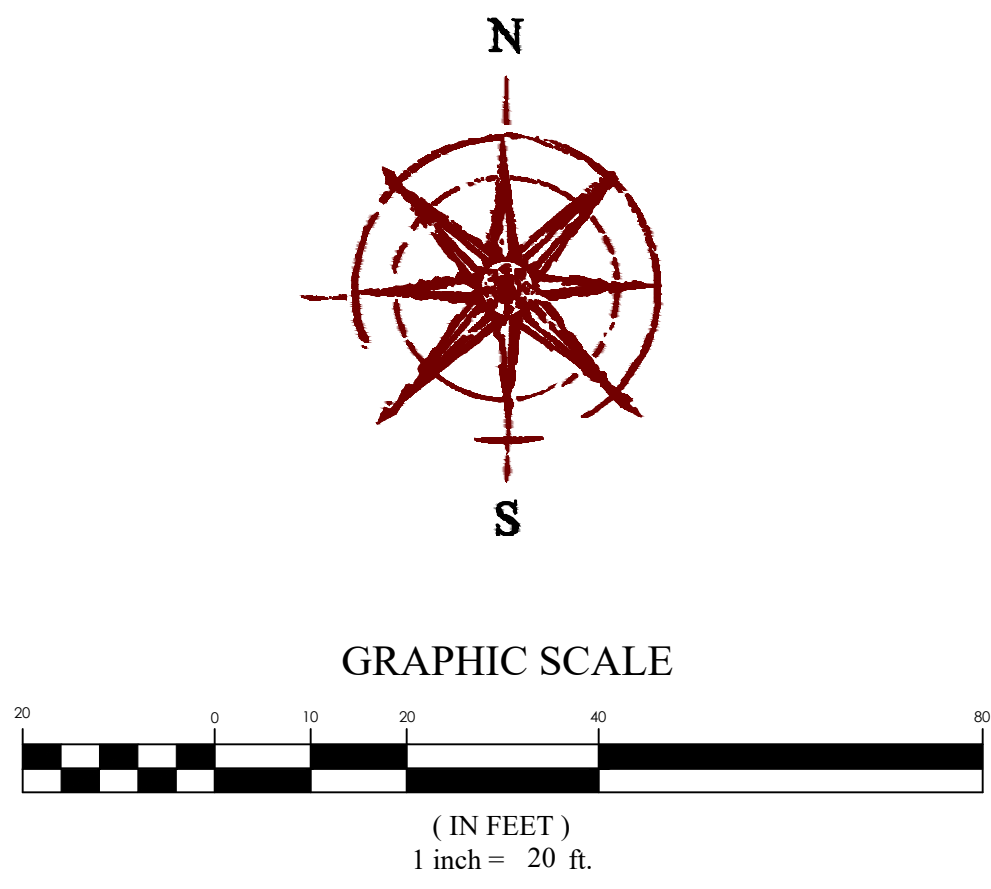
BOUNDARY	XX" STORM DRAIN	EXIST. STORM DRAIN
ROW	XX" SANITARY SEWER	EXIST. SANITARY SEWER
CENTERLINE	XX" CULINARY WATER	EXIST. CULINARY WATER
LOT LINE	XX" SECONDARY WATER	EXIST. CULINARY WATER
EASEMENT	XXXX	EXIST. CONTOUR MAJOR
CONTOUR MAJOR	XXXX	EXIST. CONTOUR MINOR
CONTOUR MINOR	XXXX	EXIST. FENCE
EXIST. STORM DRAIN	XXXX	EXIST. CONTOUR MAJOR
EXIST. SANITARY SEWER	XXXX	EXIST. CONTOUR MINOR
EXIST. CULINARY WATER	XXXX	SIGN
EXIST. FENCE	XXXX	STREET LIGHT
EXIST. CONTOUR MAJOR	XXXX	SD MH, INLET, AND COMBO
EXIST. CONTOUR MINOR	XXXX	SEWER MANHOLE
SIGN	XXXX	SECONDARY METER, WATER METER
STREET LIGHT	XXXX	CULINARY VALVE, TEE & BEND
SD MH, INLET, AND COMBO	XXXX	SECONDARY VALVE, TEE & BEND
SEWER MANHOLE	XXXX	WATER BLOW-OFF
SECONDARY METER, WATER METER	XXXX	FIRE HYDRANT
CULINARY VALVE, TEE & BEND	XXXX	STREET MONUMENT (TO BE SET)
SECONDARY VALVE, TEE & BEND	XXXX	EXIST. STREET MONUMENT
WATER BLOW-OFF	XXXX	EXIST. SD INLET & MH
FIRE HYDRANT	XXXX	EXIST. SEWER MH
STREET MONUMENT (TO BE SET)	XXXX	EXIST. VALVE, TEE, & BEND
EXIST. STREET MONUMENT	XXXX	EXIST. FIRE HYDRANT
EXIST. SD INLET & MH	XXXX	SPOT ELEVATION
EXIST. SEWER MH	XXXX	
EXIST. VALVE, TEE, & BEND	XXXX	
EXIST. FIRE HYDRANT	XXXX	
SPOT ELEVATION	XXXX	



NOTES:

1. SD PIPE SHALL BE RCP OR HIGH PERFORMANCE STORM POLYPROPYLENE PIPE (HP STORM).

WITH CENTERLINE SLOPES THAT ARE DESIGNED AT MINIMUM 0.5% CONTRACTOR TO VERIFY THAT CURB & GUTTER, FLOW LINE DOES NOT SLOPE LESS THAN 0.5%.



MATTHEWS MEADOWS SUBDIVISION PHASE 2  
GRANTSVILLE, UT  
GRADING & DRAINAGE PLAN

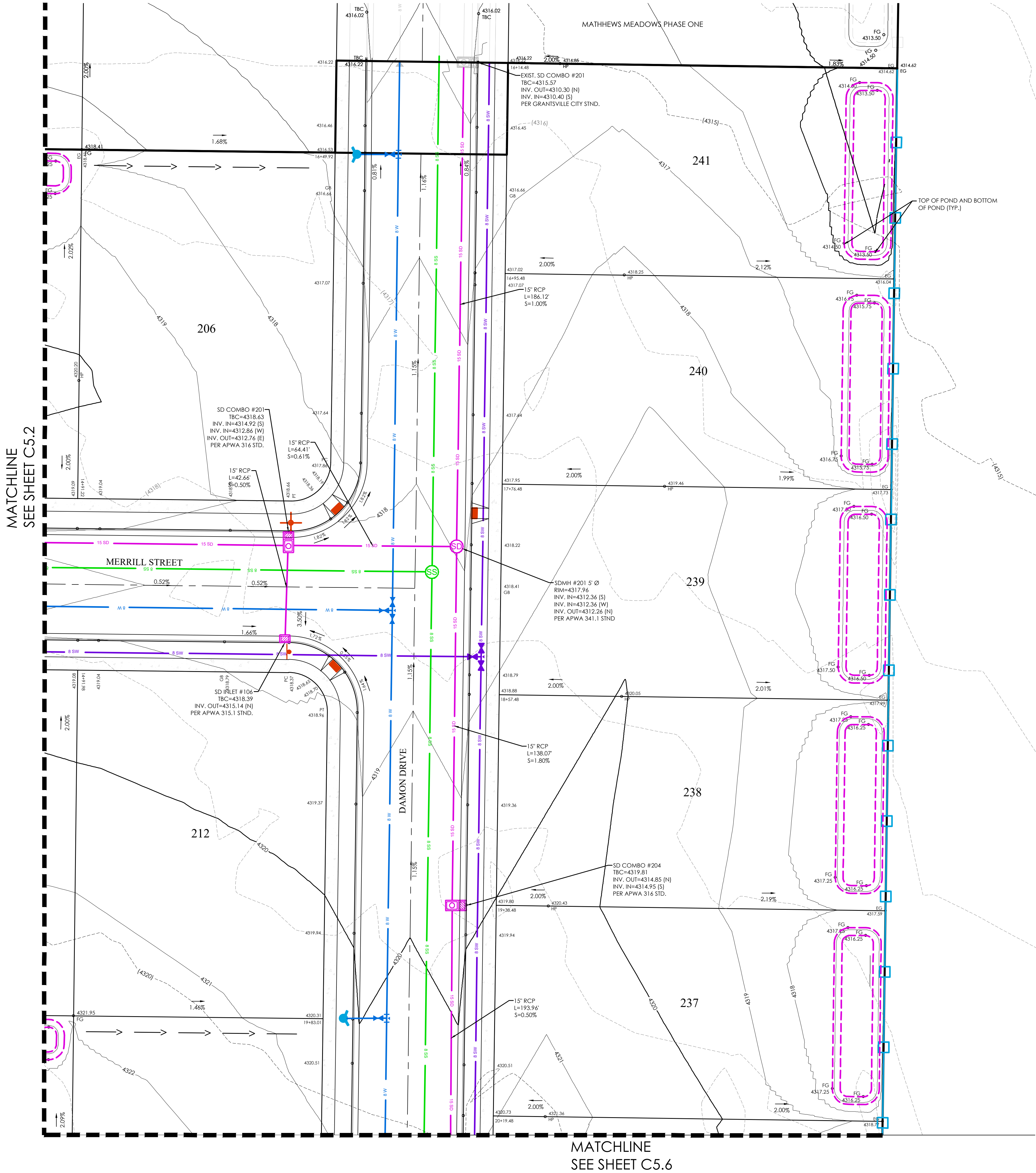
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GRADING & DRAINAGE PLAN

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Date: 04/03/24  
Sheet: C5.2

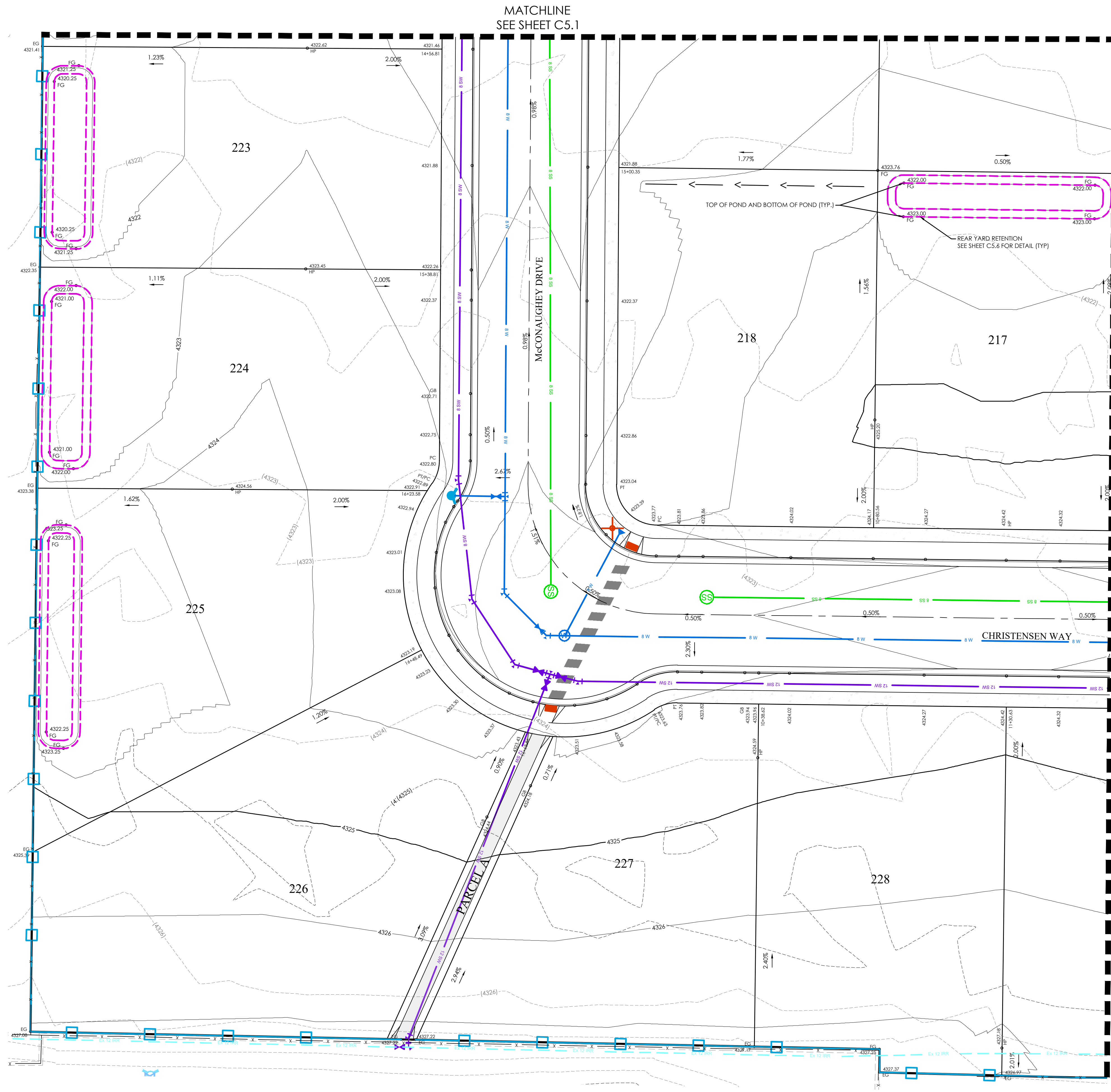
Drawn: MEC  
Job #: 23-0012





REVISION BLOCK	DATE	DESCRIPTION
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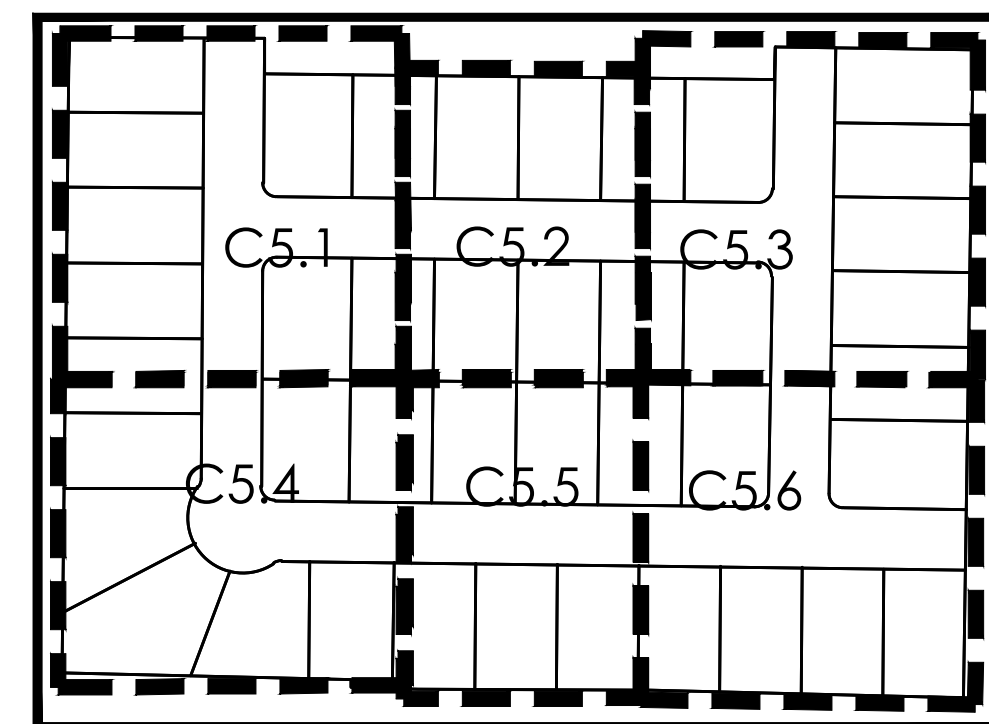


MATCHLINE  
SEE SHEET C5.5

**LEGEND**

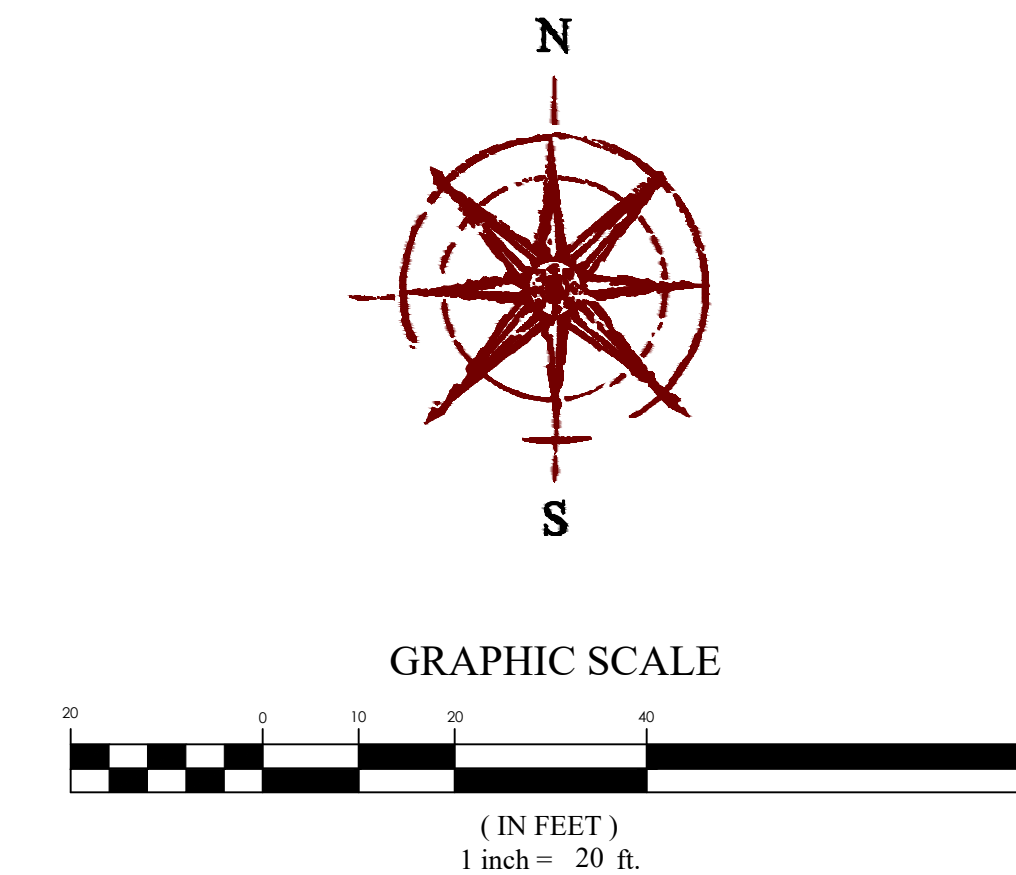
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---	SECTION LINE
---	EXIST. EASEMENT LINE
---	EXIST. PROPERTY LINE
---	EXIST. CONTOUR MAJOR
---	EXIST. CONTOUR MINOR
---	EXIST. STORM DRAIN
---	EXIST. SANITARY SEWER
---	EXIST. CULINARY WATER
---	EXIST. SECONDARY WATER
---	EXIST. IRRIGATION
---	EXIST. NATURAL GAS
---	EXIST. COMMUNICATIONS
---	EXIST. OVERHEAD POWER
---	EXIST. UNDERGROUND POWER
---	EXIST. FENCE
---	EXIST. IRRIGATION DITCH FLOWLINE
---	EXIST. CONCRETE, CURB & GUTTER, SIDEWALK
---	EXIST. EDGE OF ASPHALT
---	SECTION MONUMENT (FOUND)
---	SECTION MONUMENT (NOT FOUND)
---	BOUNDARY MARKER
---	EXIST. SD INLET, MANHOLE & COMBO BOX
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---	EXIST. STREET LIGHT
---	EXIST. POWER POLE
---	EXIST. ELECTRICAL BOX
---	EXIST. COMMUNICATIONS BOX
---	EXIST. SPOT ELEVATION
---	DEED BOOK/PAGE PER XXXX COUNTY RECORDS
---	XXXX COUNTY PARCEL No.

+XXXXXX  
XXXX/XXXX  
XX:XXX-XXXX



**KEY MAP**  
N.T.S

- NOTES:
- SD PIPE SHALL BE RCP OR HIGH PERFORMANCE STORM POLYPROPYLENE PIPE (HP STORM).
- WITH CENTERLINE SLOPES THAT ARE DESIGNED AT MINIMUM 0.5% CONTRACTOR TO VERIFY THAT CURB & GUTTER, FLOW LINE DOES NOT SLOPE LESS THAN 0.5%.



MATTHEWS MEADOWS SUBDIVISION PHASE 2  
GRANTSVILLE, UT  
GRADING & DRAINAGE PLAN

REVISION BLOCK	
#	DESCRIPTION
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**GRADING & DRAINAGE PLAN**

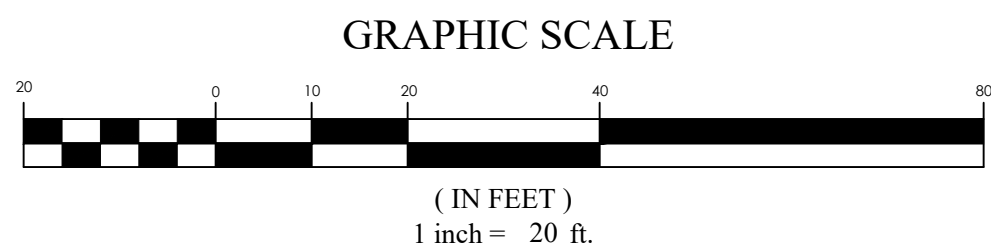
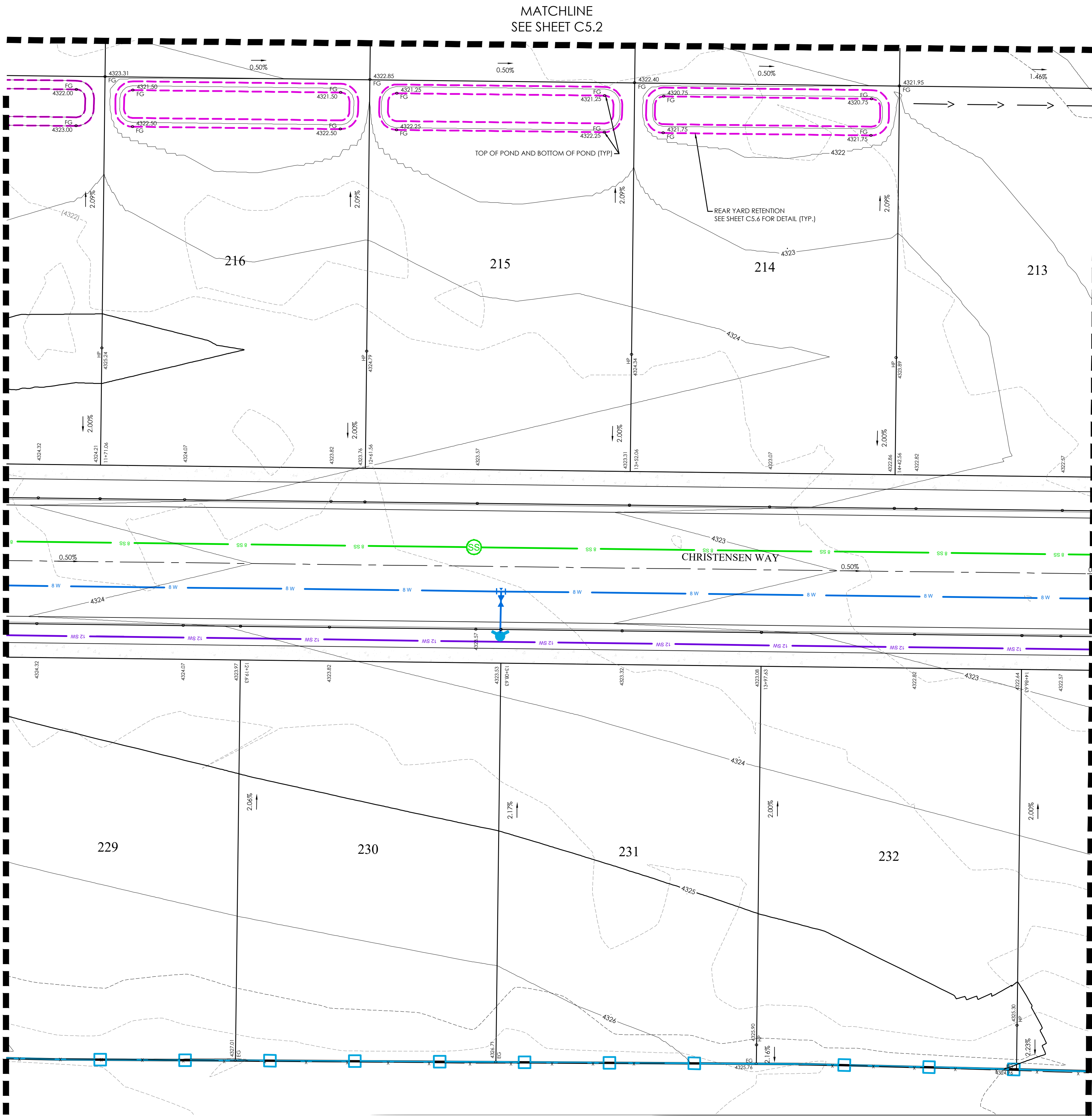
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Date: 04/03/24	Job #: 23-0012
Sheet:	C5.4

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MATCHLINE  
SEE SHEET C5.4



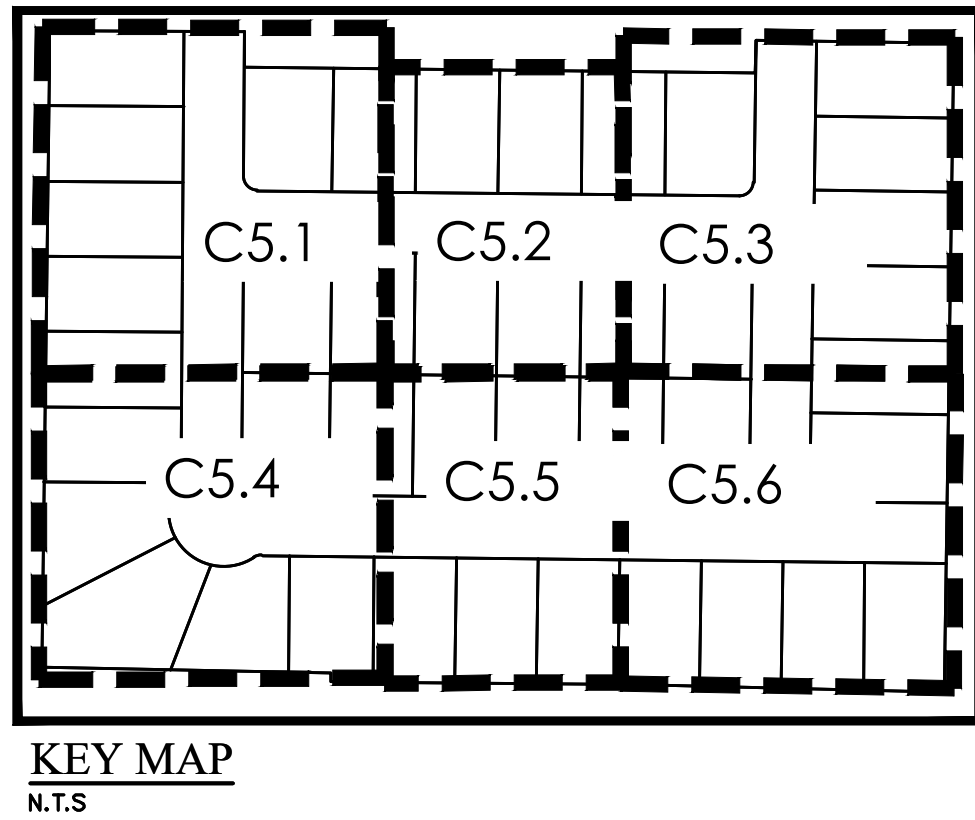
MATCHLINE  
SEE SHEET C5.6

- NOTES:
- SD PIPE SHALL BE RCP OR HIGH PERFORMANCE STORM POLYPROPYLENE PIPE.(HP STORM).
- WITH CENTERLINE SLOPES THAT ARE DESIGNED AT MINIMUM 0.5% CONTRACTOR TO VERIFY THAT CURB & GUTTER, FLOW

**LEGEND**

DOES NOT SLOPE LESS THAN 0.5%.

- BOUNDARY LINE
- SECTION LINE
- EXIST. EASEMENT LINE
- EXIST. PROPERTY LINE
- EXIST. CONTOUR MAJOR (XXXX)
- EXIST. CONTOUR MINOR (XXXX)
- EXIST. STORM DRAIN
- EXIST. SANITARY SEWER
- EXIST. CULINARY WATER
- EXIST. SECONDARY WATER
- EXIST. IRRIGATION
- EXIST. NATURAL GAS
- EXIST. COMMUNICATIONS
- EXIST. OVERHEAD POWER
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- EXIST. IRRIGATION BOX
- EXIST. GAS VALVE & GAS METER
- EXIST. STREET LIGHT
- EXIST. POWER POLE
- EXIST. ELECTRICAL BOX
- EXIST. COMMUNICATIONS BOX
- EXIST. SPOT ELEVATION
- DEED BOOK/PAGE PER xxxx COUNTY RECORDS
- XXXX COUNTY PARCEL No.



#### Rear Lot Retention Pond

Project: Matthews Meadows Subdivision  
Location: Grantsville City, Utah  
Date: 4/20/2022  
Designer: DCJ



#### 100-Year Retention Sizing

##### Design Criteria

Intensity Table: Per NOAA Atlas 14  
Return Period: 100 year  
Allowable Discharge: 0.00 cfs/acre Per Grantsville City Standards

##### Allowable Discharges

Storm Drain Discharge: 0.00 cfs  
Other Discharge: 0.00 cfs  
Total Discharge: 0 cfs

Source:

##### Weighted "C" Value

Surface Type	Area (sf)	"C" Value	C*A
Homes (rooftops)	2,662	0.85	2,263
Drives	0	0.85	0
Roadway and Sidewalk	0	0.85	0
Landscape	7,419	0.15	1,113
Totals	10,081		3,375.55
Weighted "C" Value		0.33	

##### Drainage Calculations

Duration	Intensity	Runoff C	Area	Rainfall	Accumulate	Allowable	Discharge	Required
min	in/hr		Ac	cfs	Flow	Discharge	cf	Storage
15.0	3.82	0.33	0.23	0.30	266	0.00	0	266
30.0	2.57	0.33	0.23	0.20	358	0.00	0	358
60.0	1.59	0.33	0.23	0.12	444	0.00	0	444
120.0	0.84	0.33	0.23	0.07	469	0.00	0	469
180.0	0.56	0.33	0.23	0.04	471	0.00	0	471
360.0	0.30	0.33	0.23	0.02	495	0.00	0	495
720.0	0.17	0.33	0.23	0.01	559	0.00	0	559
1440.0	0.10	0.33	0.23	0.01	649	0.00	0	649

Maximum Storage Requirement: 649  
Maximum Storage Requirement (ac-ft): 0.01

##### Retention Basin Design

Storage Requirement: 649 cf  
Allowable Depth: 1.0 ft  
Retention Pond Volume: 990 cf  
Roadway Sump Storage: 0 cf

Retention Calculated Using Basic Geometry of a Trapezoidal Trench

Total Storage 990 RETENTION ADEQUATE

## MATTHEWS MEADOWS SUBDIVISION PHASE 2

## GRANTSVILLE, UT GRADING & DRAINAGE PLAN

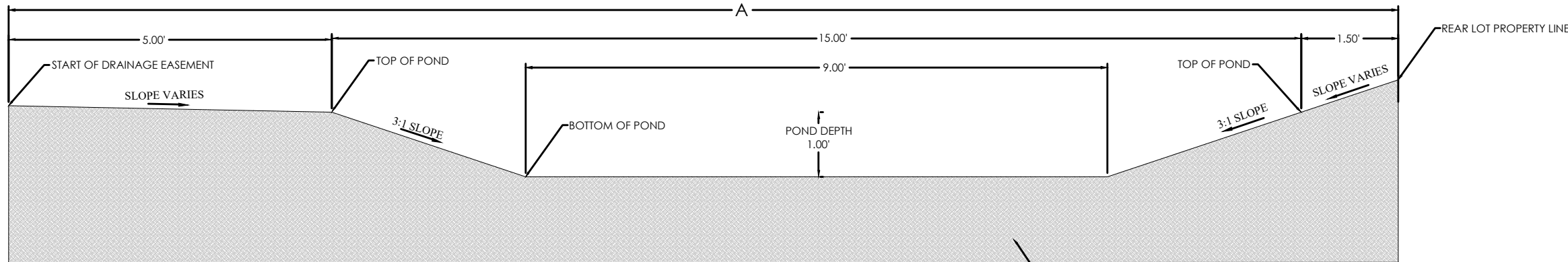
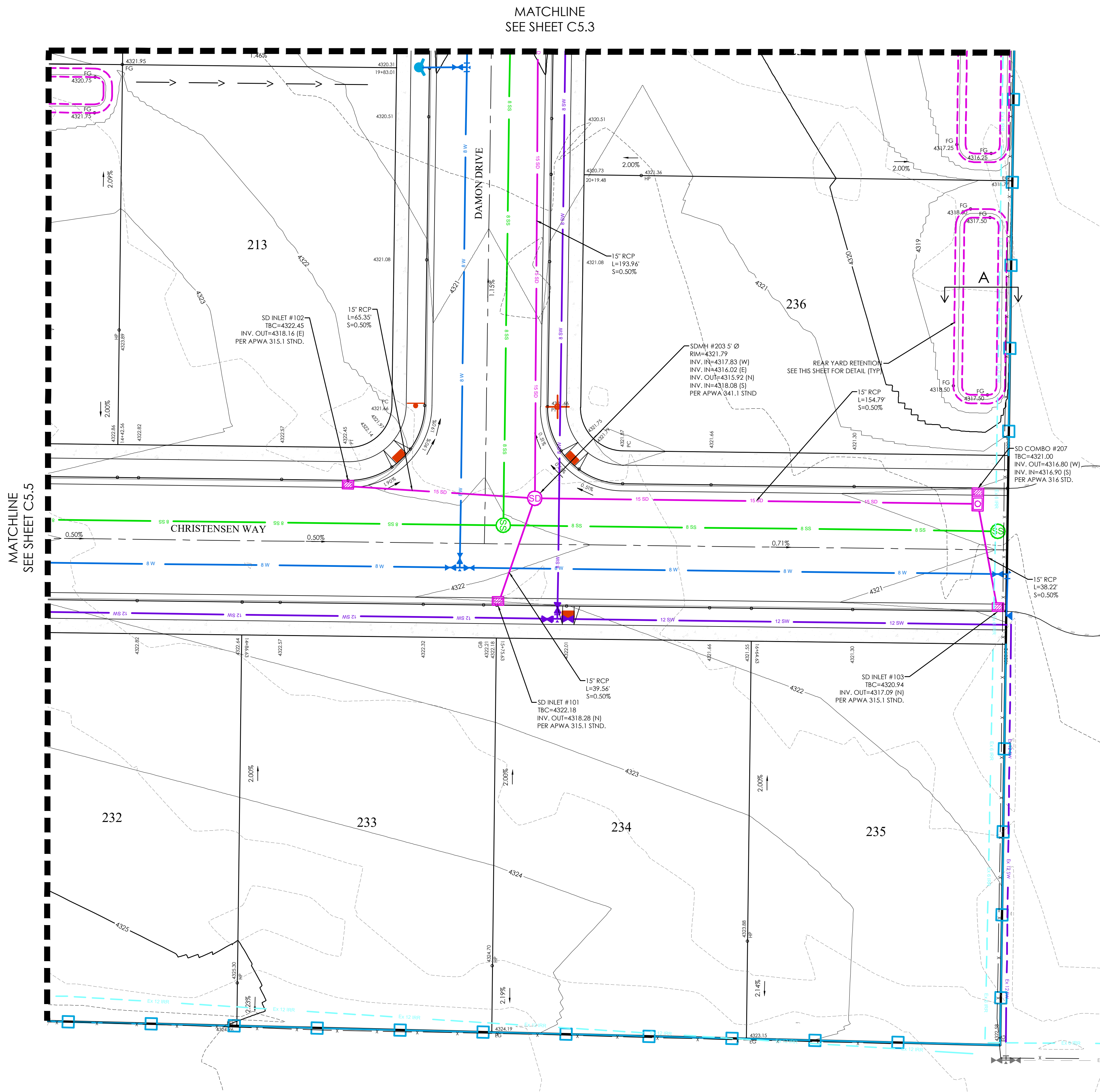
REVISION BLOCK	DATE	DESCRIPTION
1		
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## GRADING & DRAINAGE PLAN

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Date: 04/03/24  
Sheet: C5.5

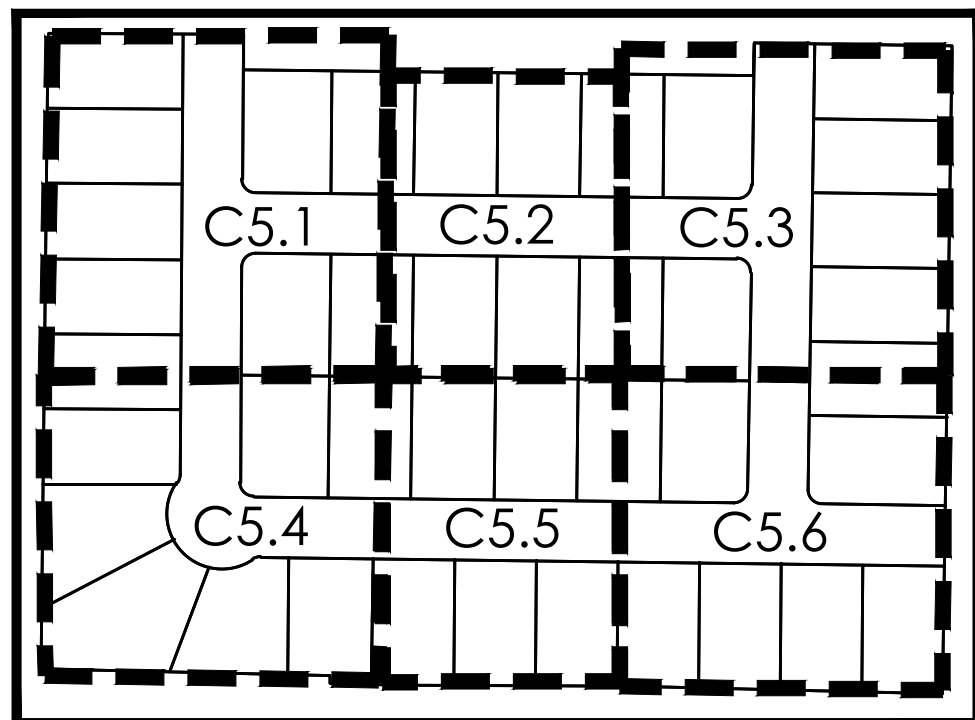
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Job #: 23-0012





LEGEND

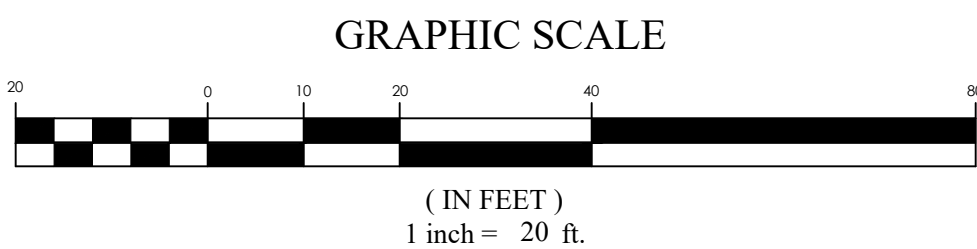
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---	SECTION LINE
---	EXIST. EASEMENT LINE
---	EXIST. PROPERTY LINE
---	EXIST. CONTOUR MAJOR
---	EXIST. CONTOUR MINOR
---	EXIST. STORM DRAIN
---	EXIST. SANITARY SEWER
---	EXIST. CULINARY WATER
---	EXIST. SECONDARY WATER
---	EXIST. IRRIGATION
---	EXIST. NATURAL GAS
---	EXIST. COMMUNICATIONS
---	EXIST. OVERHEAD POWER
---	EXIST. UNDERGROUND POWER
---	EXIST. FENCE
---	EXIST. IRRIGATION DITCH FLOWLINE
---	EXIST. CONCRETE, CURB & GUTTER, SIDEWALK
---	EXIST. EDGE OF ASPHALT
---	SECTION MONUMENT (FOUND)
---	SECTION MONUMENT (NOT FOUND)
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---	EXIST. IRRIGATION BOX
---	EXIST. GAS VALVE & GAS METER
---	EXIST. STREET LIGHT
---	EXIST. POWER POLE
---	EXIST. ELECTRICAL BOX
---	EXIST. COMMUNICATIONS BOX
---	EXIST. SPOT ELEVATION
---	DEED BOOK/PAGE PER XXXX COUNTY RECORDS
---	XXXX COUNTY PARCEL No.



NOTES:

- SD PIPE SHALL BE RCP OR HIGH PERFORMANCE STORM POLYPROPYLENE PIPE (HP STORM).

WITH CENTERLINE SLOPES THAT ARE DESIGNED AT MINIMUM 0.5% CONTRACTOR TO VERIFY THAT CURB & GUTTER, FLOW LINE DOES NOT SLOPE LESS THAN 0.5%.



MATTHEWS MEADOWS SUBDIVISION PHASE 2

GRANTSVILLE, UT

GRADING & DRAINAGE PLAN

REVISION BLOCK

NO.	DATE	DESCRIPTION
1		
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4		
5		
6		

GRADING & DRAINAGE PLAN

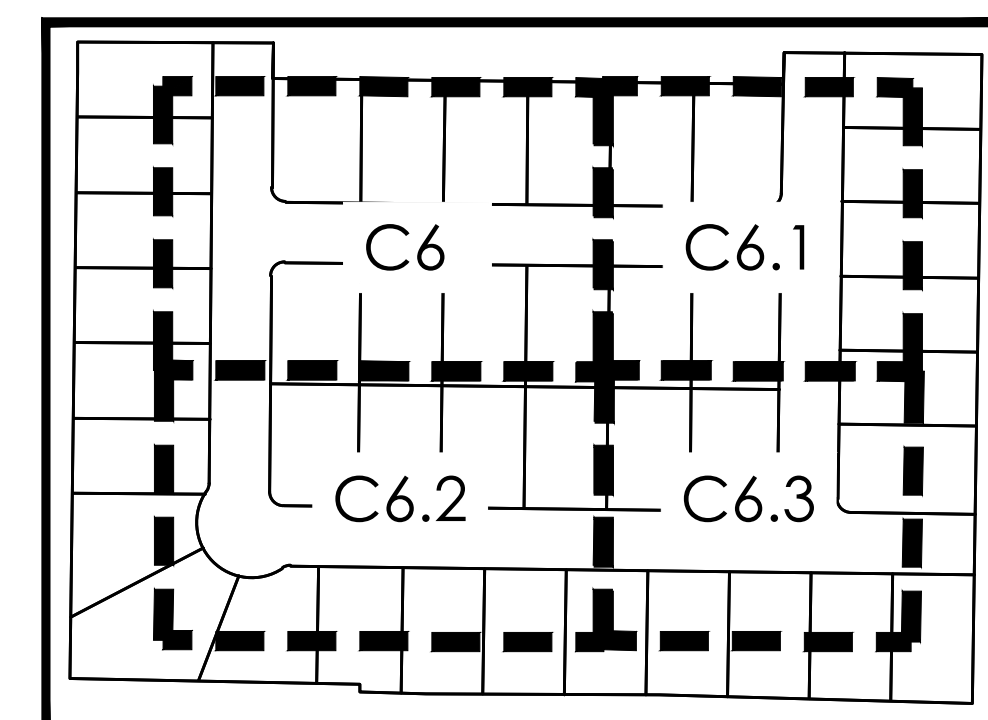
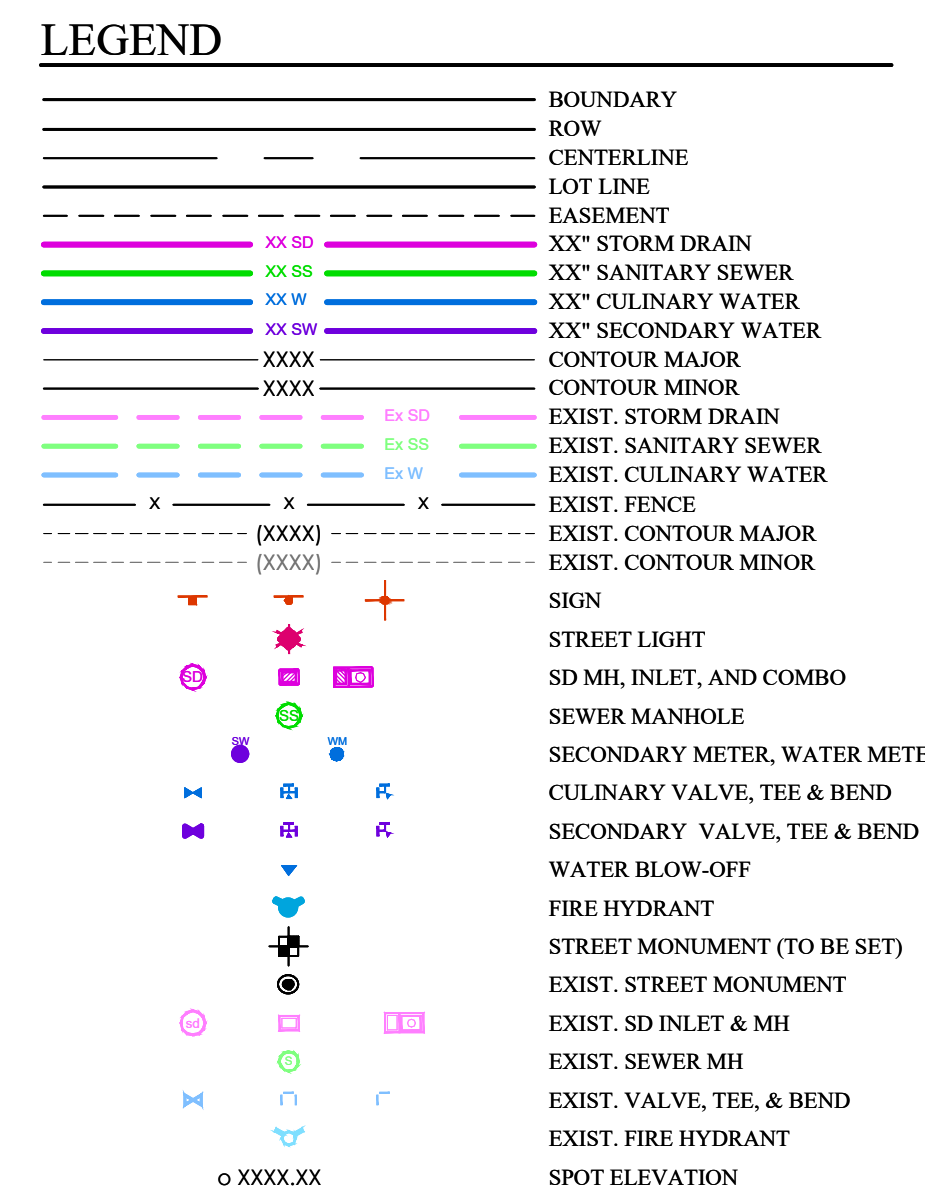
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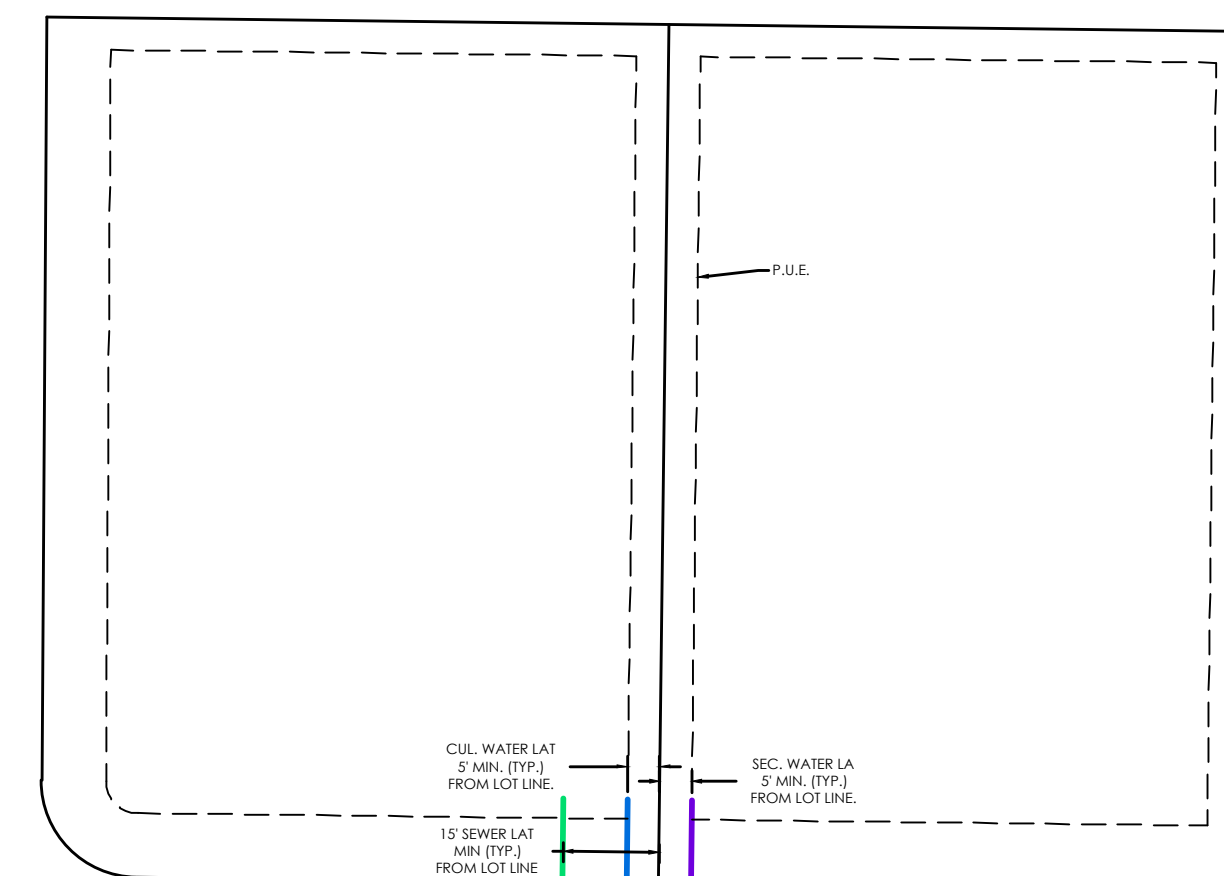






**KEY MAP**  
N.T.S

- NOTES:
1. 10' MIN. HORIZONTAL SEPARATION BETWEEN CULINARY WATER AND SANITARY SEWER AND STORM DRAIN.
  2. CONTRACTOR TO VERIFY LOCATION AND ELEVATION OF UTILITIES AND ROAD IMPROVEMENTS UPON COMPLETION OF CONSTRUCTION OF MATTHEWS MEADOWS PHASE 1.



LATERAL TYPICAL



MATTHEWS MEADOWS SUBDIVISION PHASE 2  
GRANTSVILLE, UT  
SEWER PLAN

REVISION BLOCK		
#	DATE	DESCRIPTION
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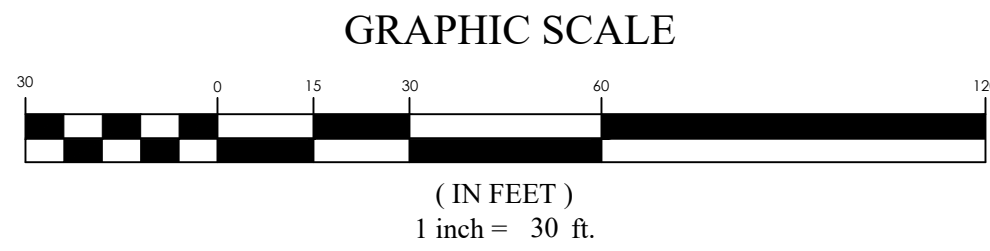
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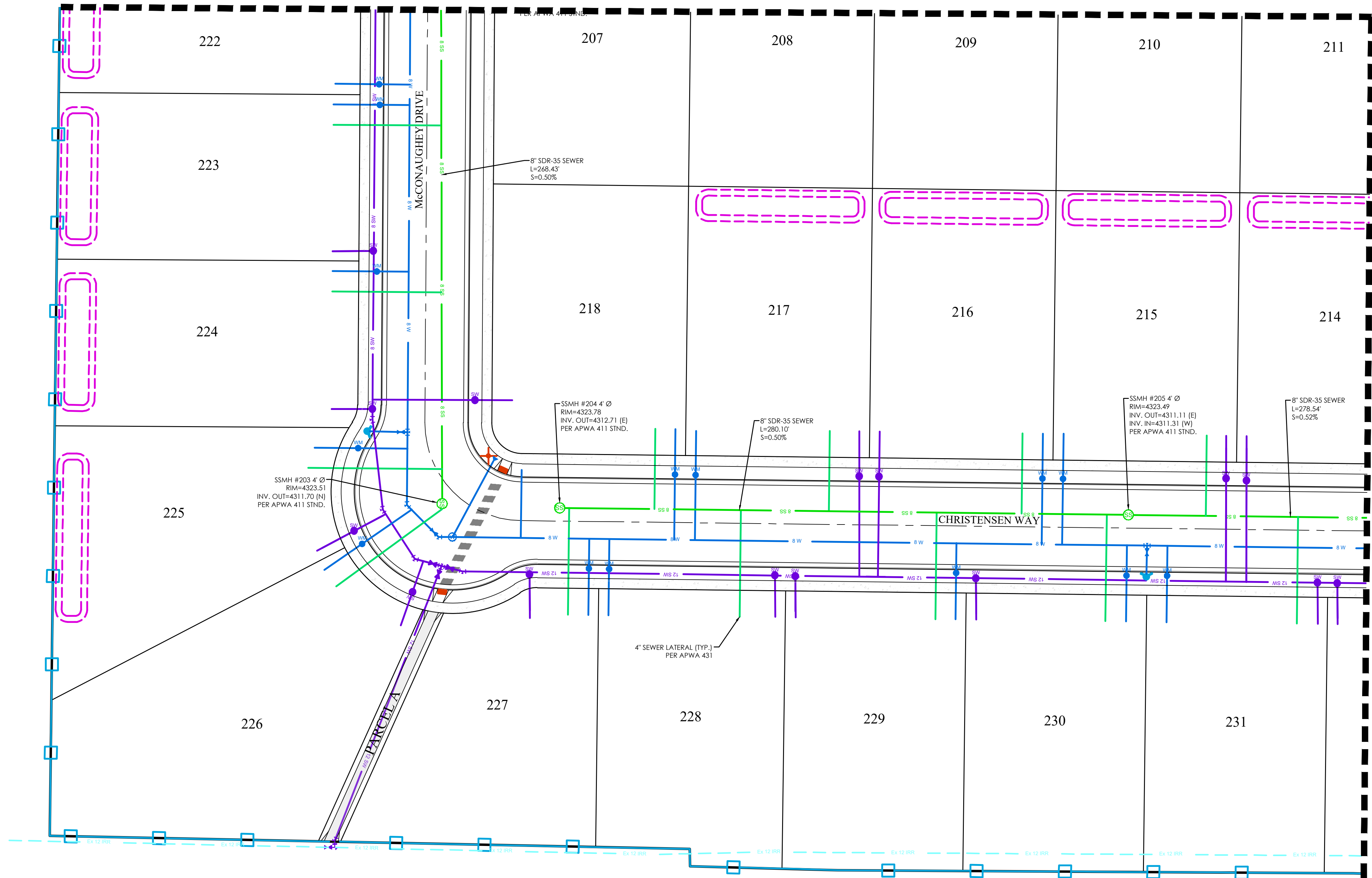
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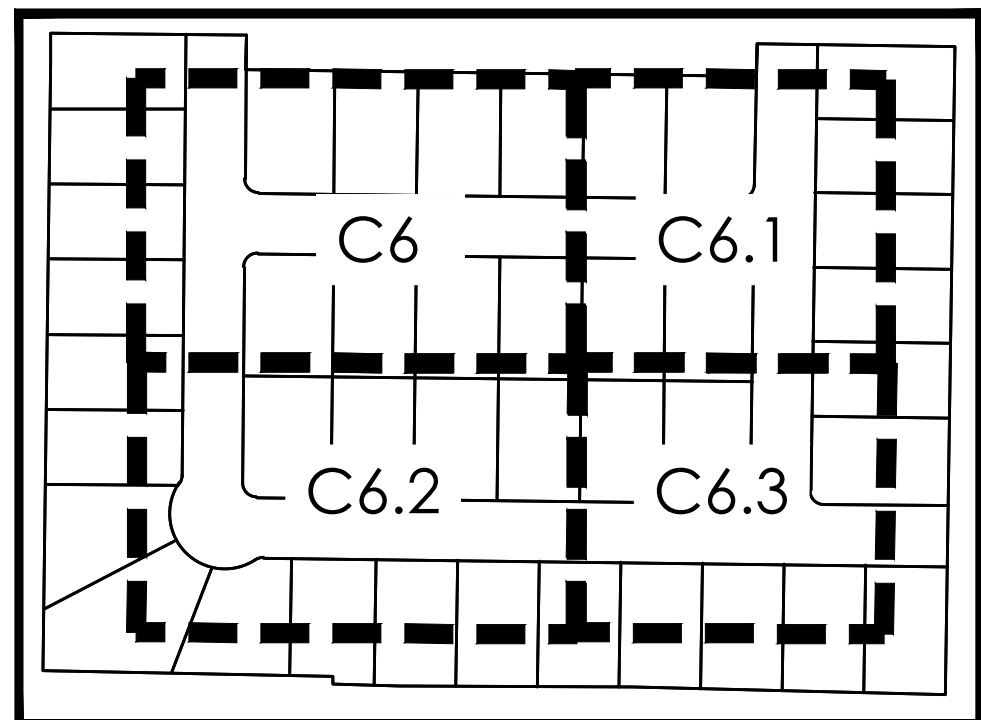


MATCHLINE  
SEE SHEET C6



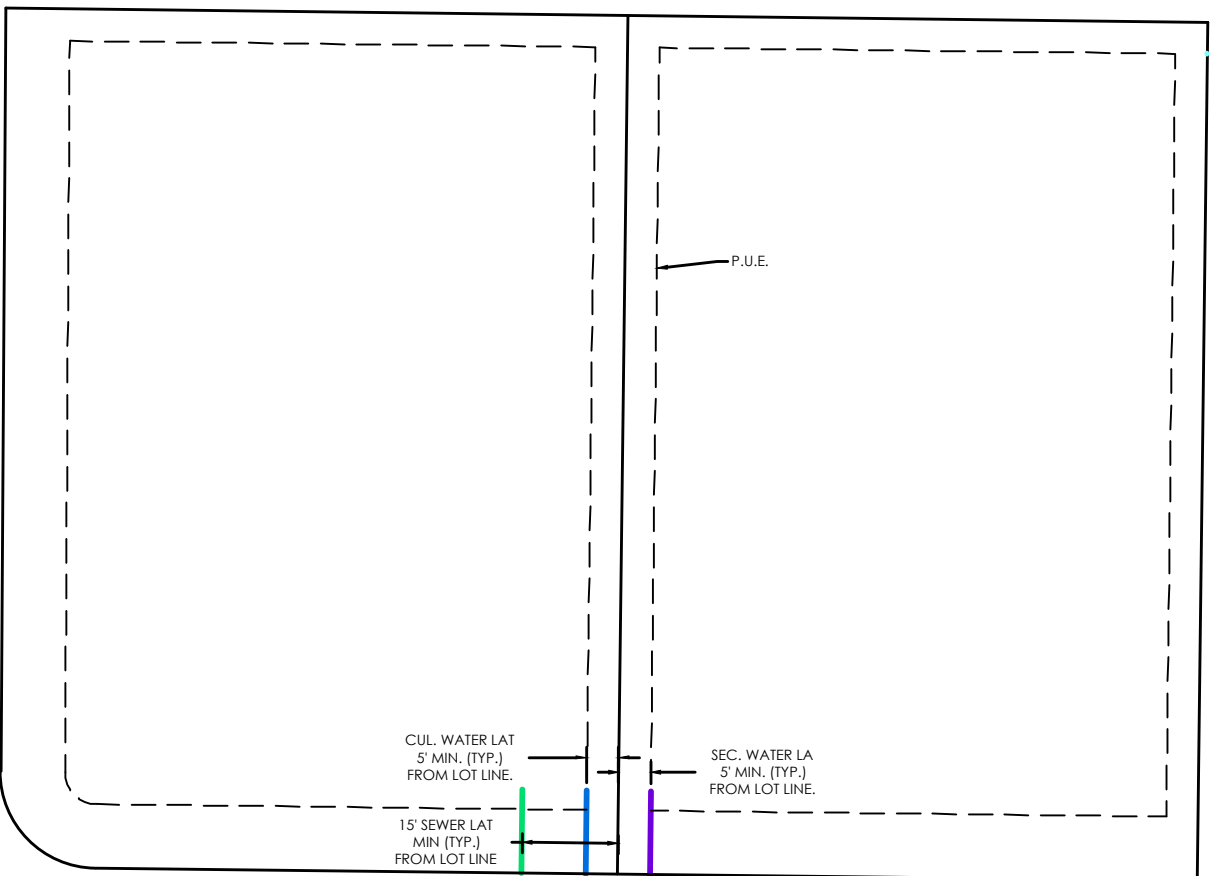
LEGEND

---	BOUNDARY
---	ROW
---	CENTERLINE
---	LOT LINE
---	EASEMENT
XX SD	XX" STORM DRAIN
XX SS	XX" SANITARY SEWER
XX W	XX" CULINARY WATER
XX SW	XX" SECONDARY WATER
XXXX	CONTOUR MAJOR
XXXX	CONTOUR MINOR
---	EXIST. STORM DRAIN
---	EXIST. SANITARY SEWER
---	EXIST. CULINARY WATER
---	EXIST. SECONDARY WATER
---	EXIST. FENCE
---	EXIST. CONTOUR MAJOR
---	EXIST. CONTOUR MINOR
+	SIGN
+	STREET LIGHT
+	SD MH, INLET, AND COMBO
+	SEWER MANHOLE
+	SECONDARY METER, WATER METER
+	CULINARY VALVE, TEE & BEND
+	SECONDARY VALVE, TEE & BEND
+	WATER BLOW-OFF
+	FIRE HYDRANT
+	STREET MONUMENT (TO BE SET)
+	EXIST. STREET MONUMENT
+	EXIST. SD INLET & MH
+	EXIST. SEWER MH
+	EXIST. VALVE, TEE, & BEND
+	EXIST. FIRE HYDRANT
+	SPOT ELEVATION



KEY MAP  
N.T.S.

- NOTES:
- 10' MIN. HORIZONTAL SEPARATION BETWEEN CULINARY WATER AND SANITARY SEWER AND STORM DRAIN.
  - CONTRACTOR TO VERIFY LOCATION AND ELEVATION OF UTILITIES AND ROAD IMPROVEMENTS UPON COMPLETION OF CONSTRUCTION OF MATTHEWS MEADOWS PHASE 1.



LATERAL TYPICAL

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MATTHEWS MEADOWS SUBDIVISION PHASE 2  
GRANTSVILLE, UT  
SEWER PLAN

REVISION BLOCK	DATE	DESCRIPTION
1		
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6		

SEWER PLAN

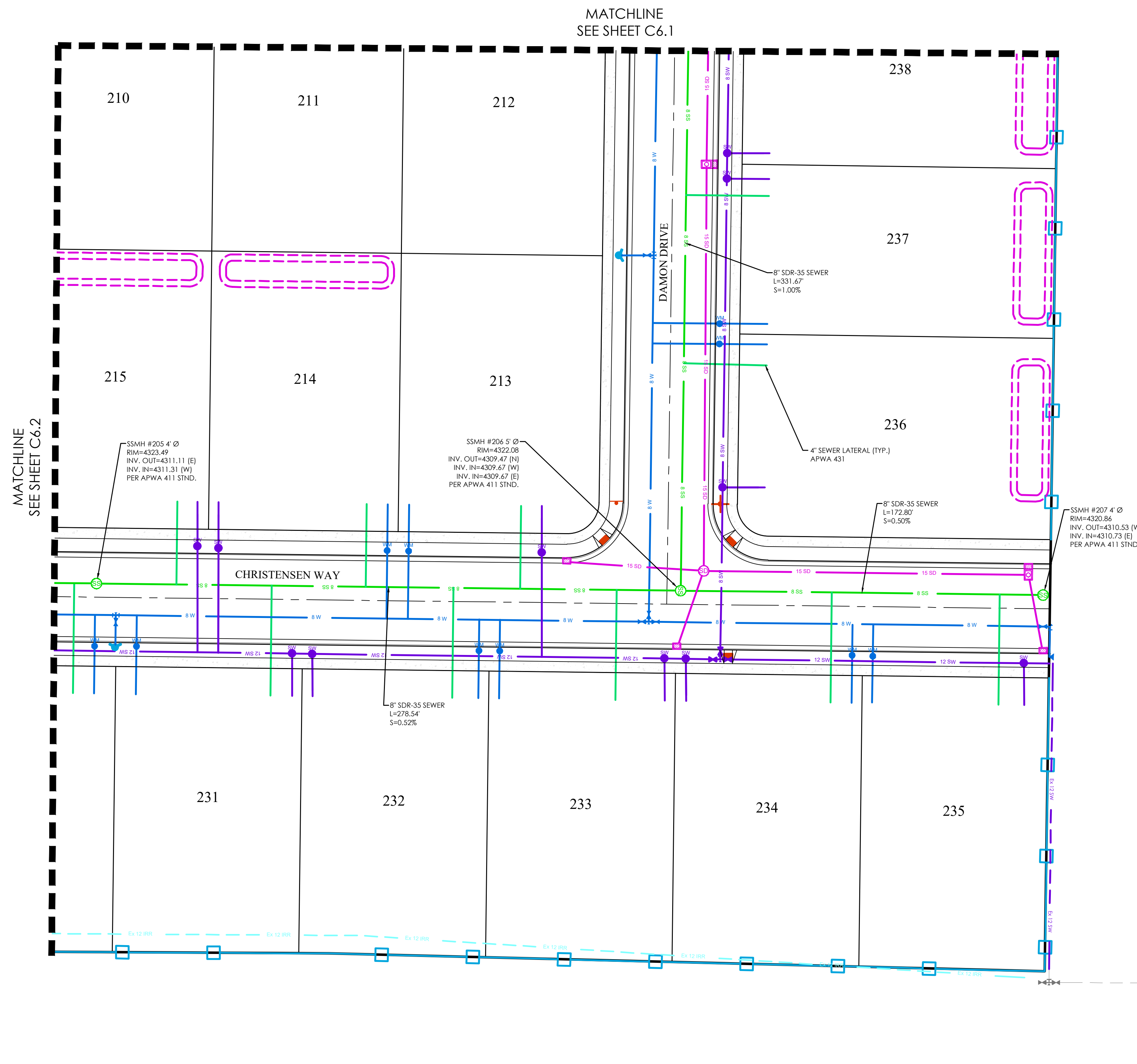
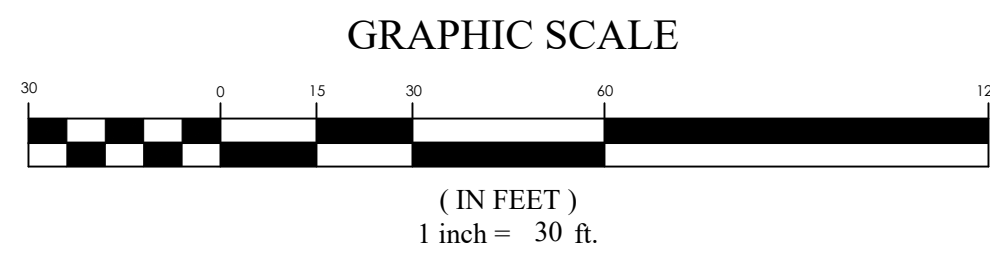
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Date: 04/03/24  
Sheet: C6.2

Drawn: MEF  
Job #: 23-0012

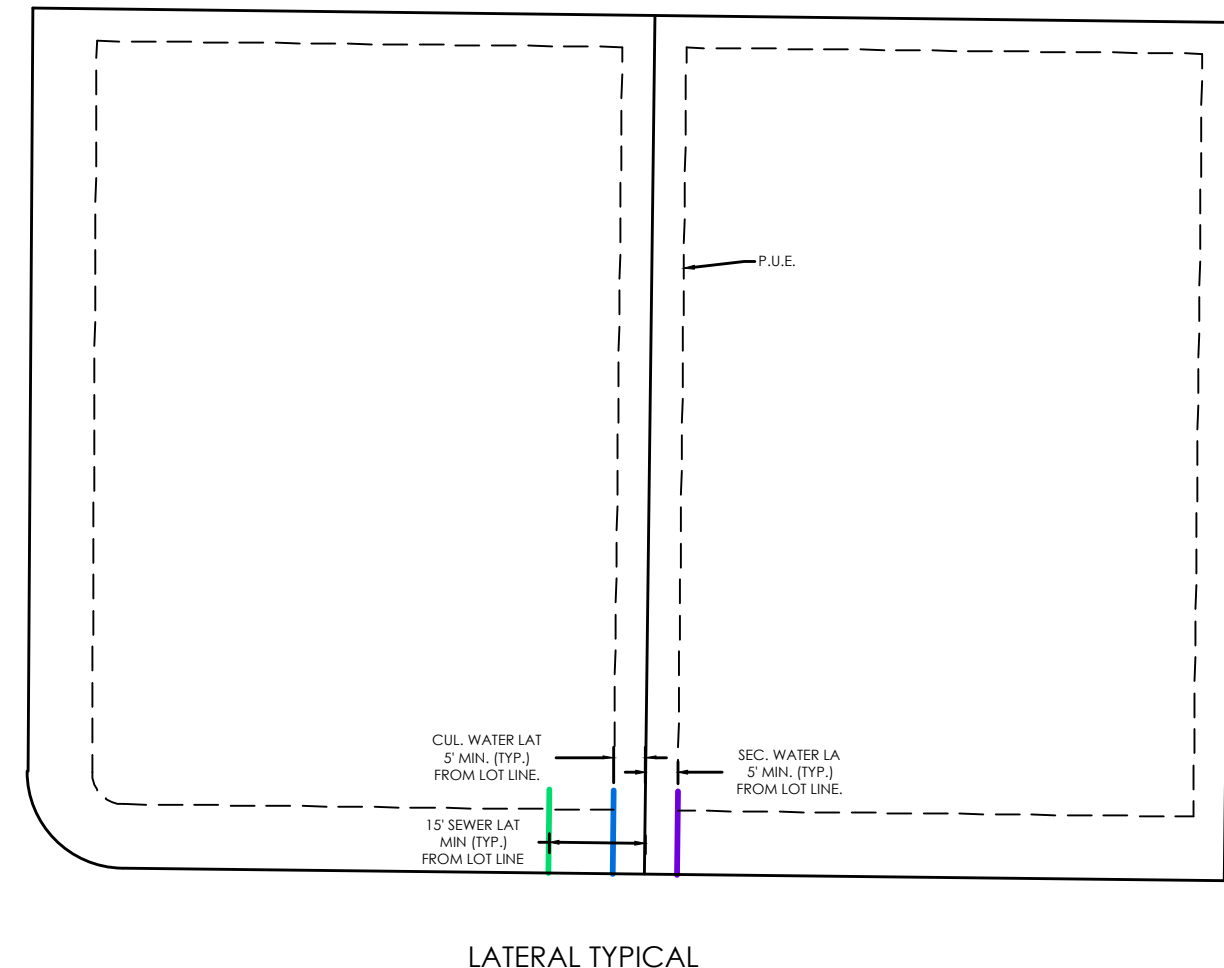


z:\2023\230012\matthews meadows phase 2\design\23-0012\c6.2\SEWER PLAN.dwg





- NOTES:
1. 10' MIN. HORIZONTAL SEPARATION BETWEEN CULINARY WATER AND SANITARY SEWER AND STORM DRAIN.
  2. CONTRACTOR TO VERIFY LOCATION AND ELEVATION OF UTILITIES AND ROAD IMPROVEMENTS UPON COMPLETION OF CONSTRUCTION OF MATTHEWS MEADOWS PHASE 1.



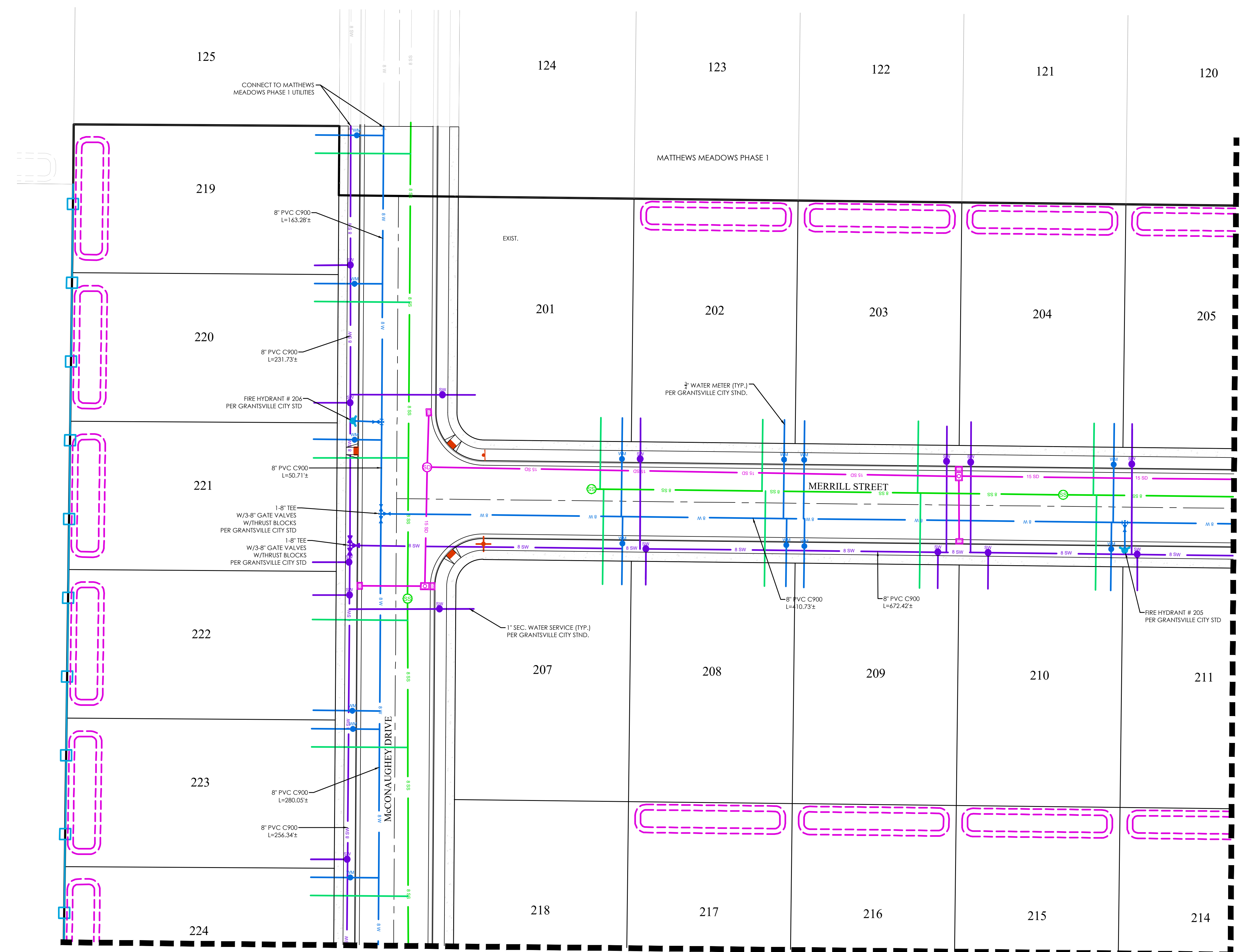
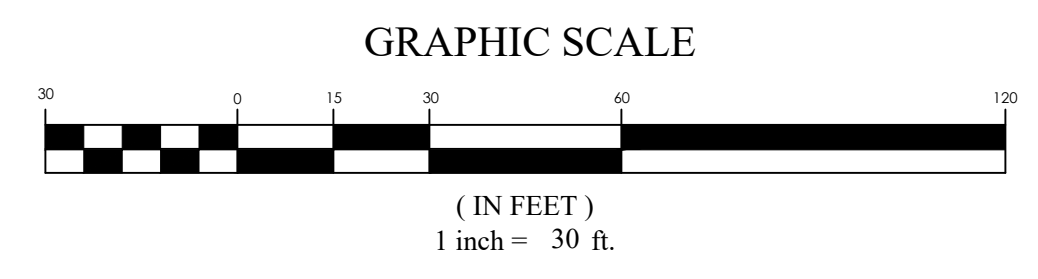
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6	11-11-20 11-11-20

SEWER PLAN

Scale: 1"=30'	Drawn: MEF
Date: 04/03/24	Job #: 23-0012
Sheet:	
C6.3	

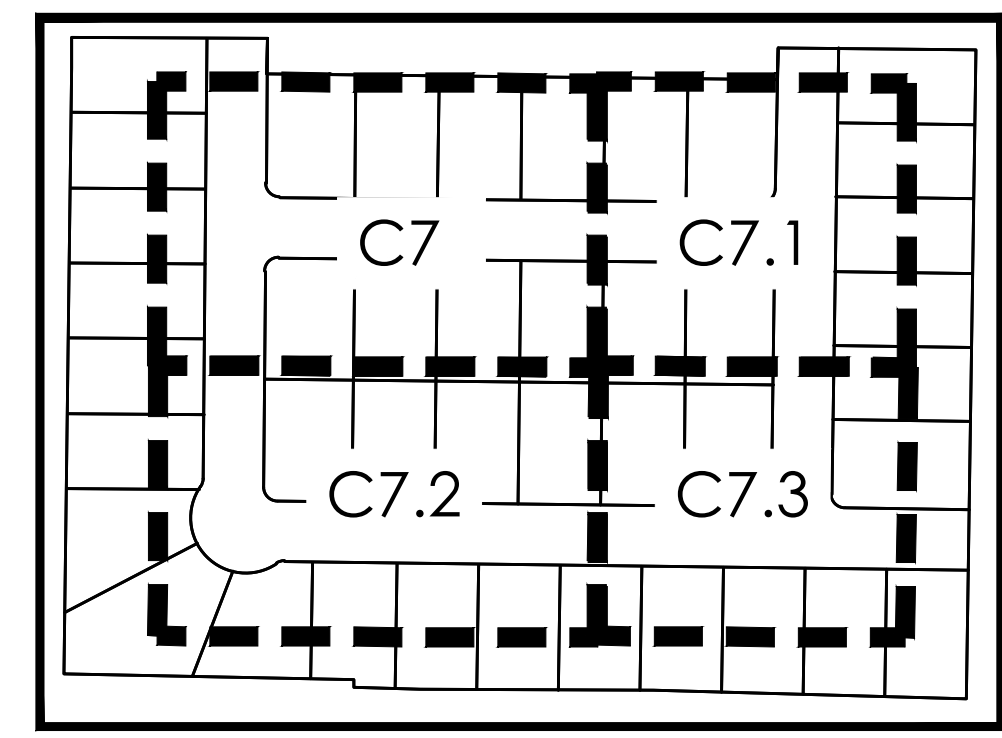






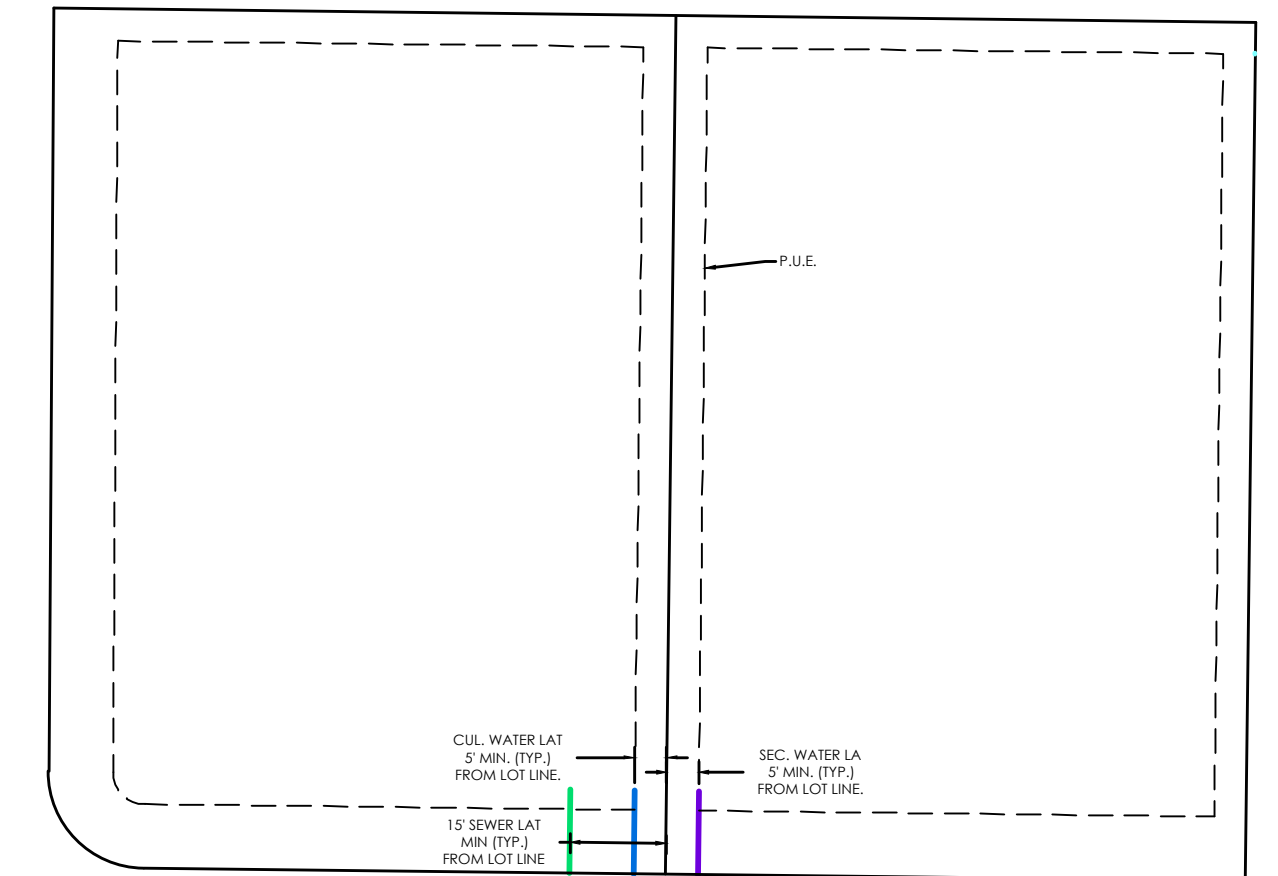
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---	BOUNDARY
---	ROW
---	CENTERLINE
---	LOT LINE
---	EASEMENT
XX SD	XX" STORM DRAIN
XX SS	XX" SANITARY SEWER
XX W	XX" CULINARY WATER
XX SW	XX" SECONDARY WATER
XXXX	CONTOUR MAJOR
XXXX	CONTOUR MINOR
XXXX	EXIST. STORM DRAIN
XXXX	EXIST. SANITARY SEWER
XXXX	EXIST. CULINARY WATER
XXXX	EXIST. SECONDARY WATER
XXXX	EXIST. FENCE
XXXX	EXIST. CONTOUR MAJOR
XXXX	EXIST. CONTOUR MINOR
XXXX	SIGN
XXXX	STREET LIGHT
XXXX	SD MH, INLET, AND COMBO
XXXX	SEWER MANHOLE
XXXX	SECONDARY METER, WATER METER
XXXX	CULINARY VALVE, TEE & BEND
XXXX	SECONDARY VALVE, TEE & BEND
XXXX	WATER BLOW-OFF
XXXX	FIRE HYDRANT
XXXX	STREET MONUMENT (TO BE SET)
XXXX	EXIST. STREET MONUMENT
XXXX	EXIST. SD INLET & MH
XXXX	EXIST. SEWER MH
XXXX	EXIST. VALVE, TEE, & BEND
XXXX	EXIST. FIRE HYDRANT
XXXX	SPOT ELEVATION



**KEY MAP**  
N.T.S.

- NOTES:**
- 10' MIN. HORIZONTAL SEPARATION BETWEEN CULINARY WATER AND SANITARY SEWER AND STORM DRAIN.
  - CONTRACTOR TO VERIFY LOCATION AND ELEVATION OF UTILITIES AND ROAD IMPROVEMENTS UPON COMPLETION OF CONSTRUCTION OF MATTHEWS MEADOWS PHASE 1.
  - 18" VERT SEPARATION BETWEEN WATER AND OTHER WET UTILITIES.



LATERAL TYPICAL



**MATTHEWS MEADOWS SUBDIVISION PHASE 2**  
**GRANTSVILLE, UT**  
**WATER PLAN**

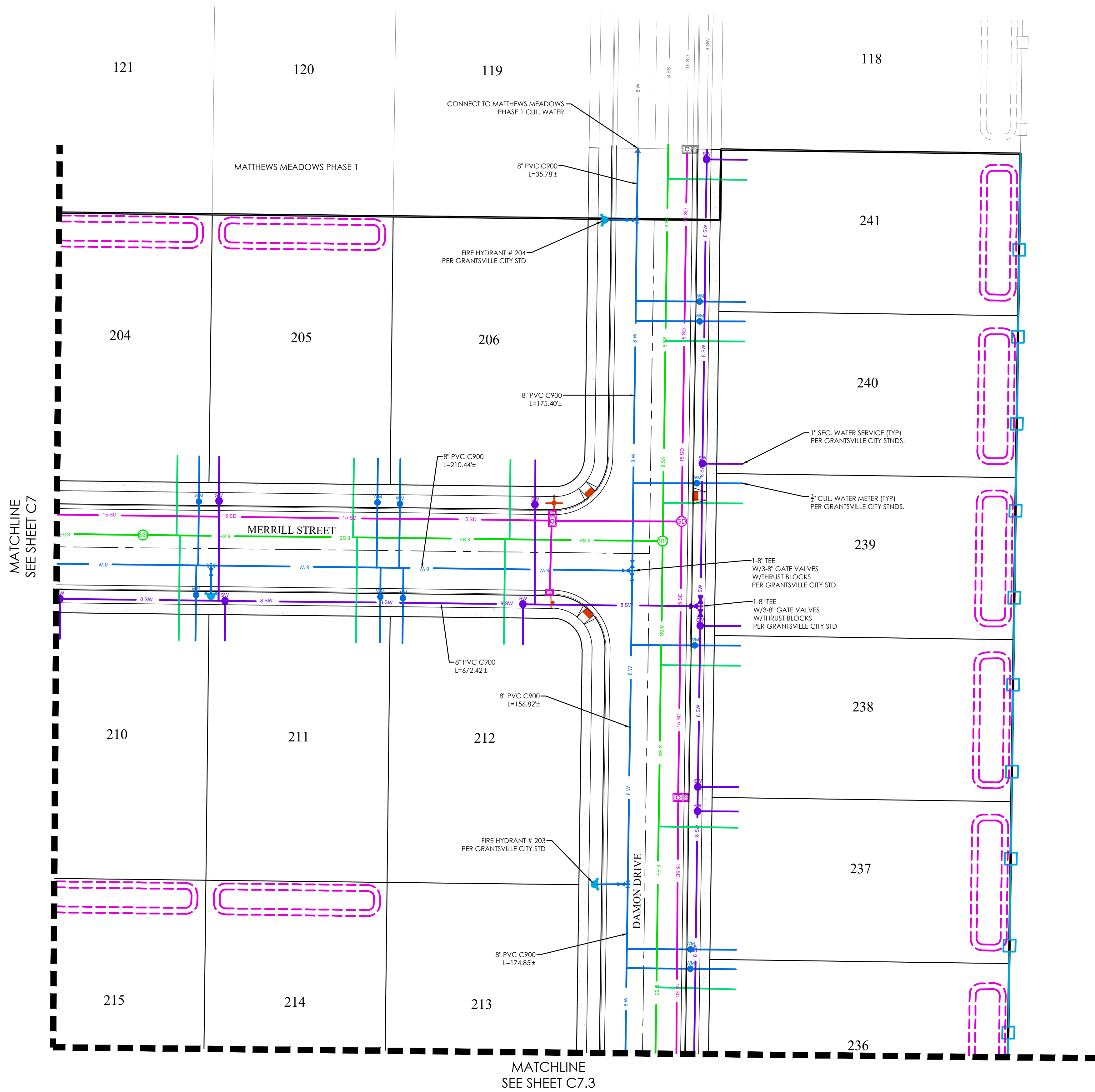
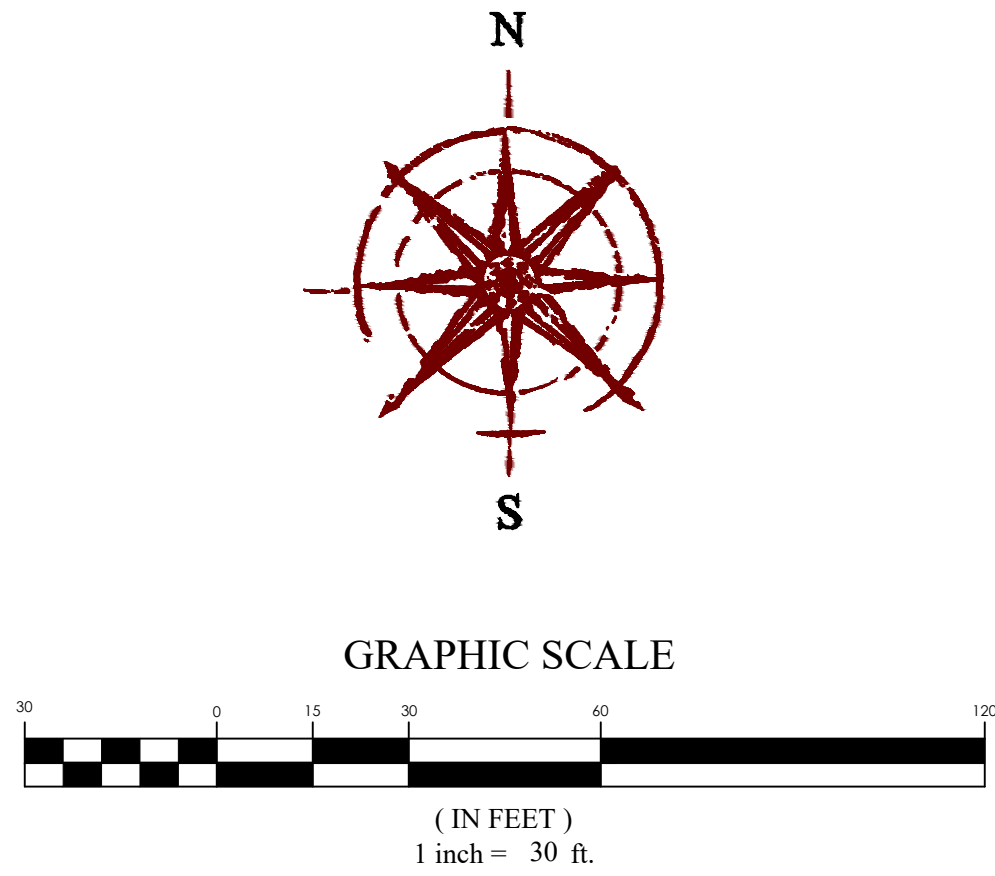
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1	DATE	
2	DATE	
3	DATE	
4	DATE	
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**WATER PLAN**

Scale: 1"=30' Drawn: MEF  
Date: 04/03/24 Job #: 23-0012  
Sheet: **C7**

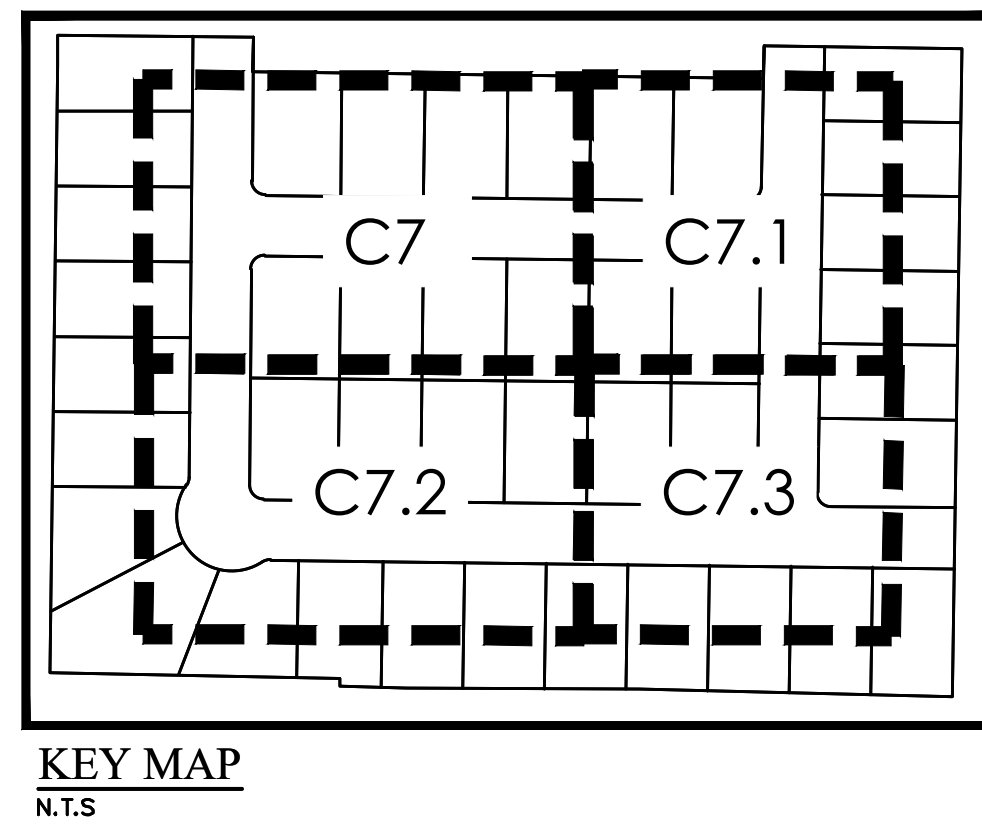
811  
Know what's below.  
Call 811 before you dig.



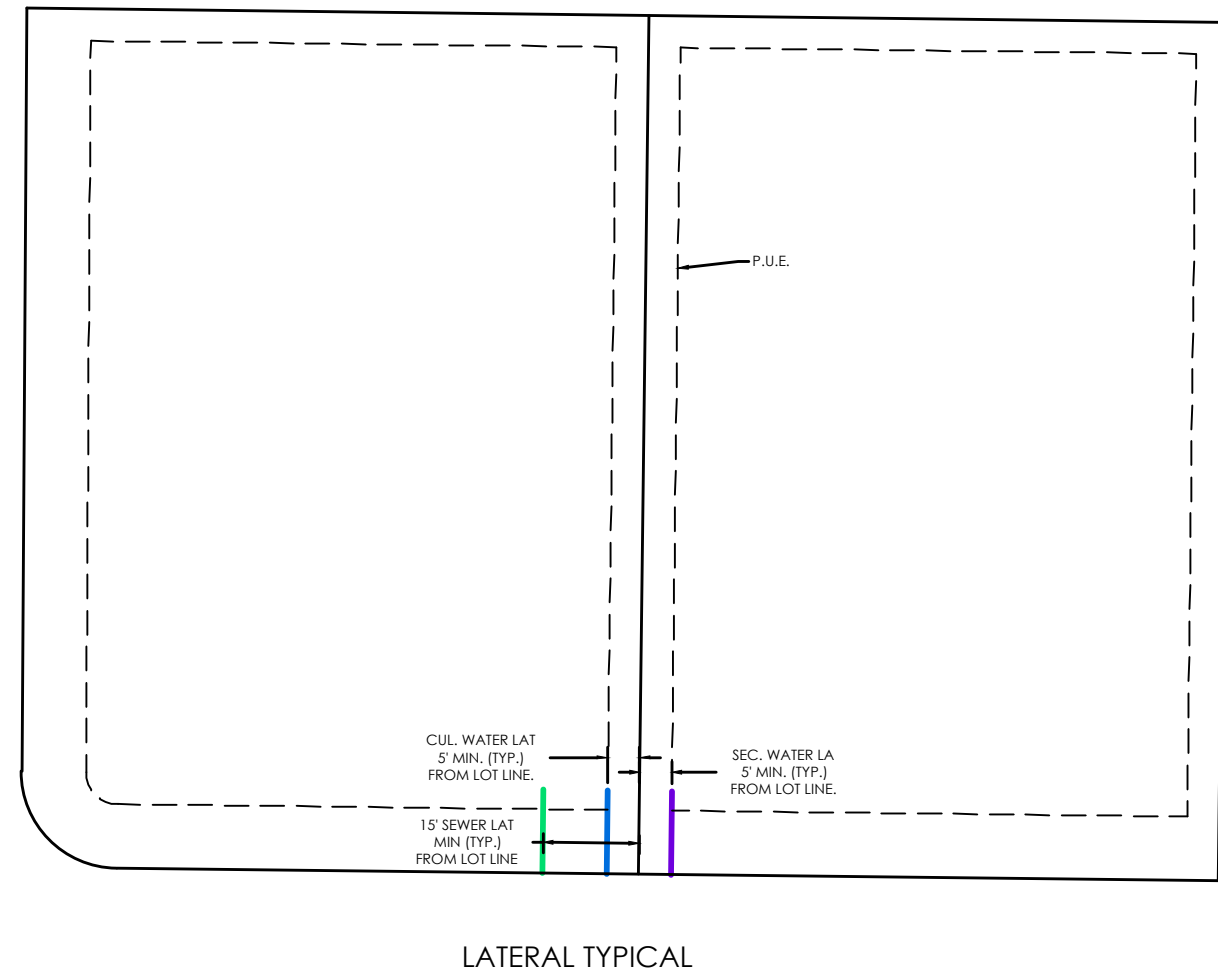


LEGEND

BOUNDARY	XX" STORM DRAIN	EXIST. STORM DRAIN
ROW	XX" SANITARY SEWER	EXIST. SANITARY SEWER
CENTERLINE	XX" CULINARY WATER	EXIST. CULINARY WATER
LOT LINE	XX" SECONDARY WATER	EXIST. SECONDARY WATER
EASEMENT	XXXX	EXIST. FENCE
CONTOUR MAJOR	XXXX	EXIST. CONTOUR MAJOR
CONTOUR MINOR	XXXX	EXIST. CONTOUR MINOR
SIGN	SD MH, INLET, AND COMBO	SEWER MANHOLE
STREET LIGHT	CULINARY VALVE, TEE & BEND	CULINARY VALVE, TEE & BEND
SD MH, INLET, AND COMBO	SECONDARY VALVE, TEE & BEND	SECONDARY VALVE, TEE & BEND
SEWER MANHOLE	WATER BLOW-OFF	WATER BLOW-OFF
CULINARY VALVE, TEE & BEND	FIRE HYDRANT	FIRE HYDRANT
SECONDARY VALVE, TEE & BEND	STREET MONUMENT (TO BE SET)	STREET MONUMENT (TO BE SET)
WATER BLOW-OFF	EXIST. STREET MONUMENT	EXIST. STREET MONUMENT
FIRE HYDRANT	EXIST. SD INLET & MH	EXIST. SD INLET & MH
STREET MONUMENT (TO BE SET)	EXIST. SEWER MH	EXIST. SEWER MH
EXIST. STREET MONUMENT	EXIST. VALVE, TEE, & BEND	EXIST. VALVE, TEE, & BEND
EXIST. SD INLET & MH	EXIST. FIRE HYDRANT	EXIST. FIRE HYDRANT
EXIST. SEWER MH	SPOT ELEVATION	SPOT ELEVATION
EXIST. VALVE, TEE, & BEND		
EXIST. FIRE HYDRANT		
SPOT ELEVATION		



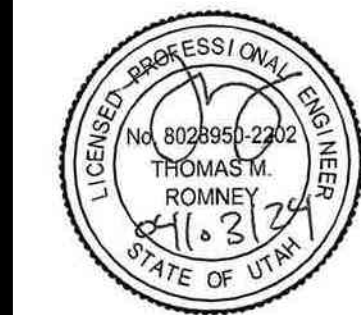
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  - CONTRACTOR TO VERIFY LOCATION AND ELEVATION OF UTILITIES AND ROAD IMPROVEMENTS UPON COMPLETION OF CONSTRUCTION OF MATTHEWS MEADOWS PHASE 1.
  - 18" VERT SEPARATION BETWEEN WATER AND OTHER WET UTILITIES.



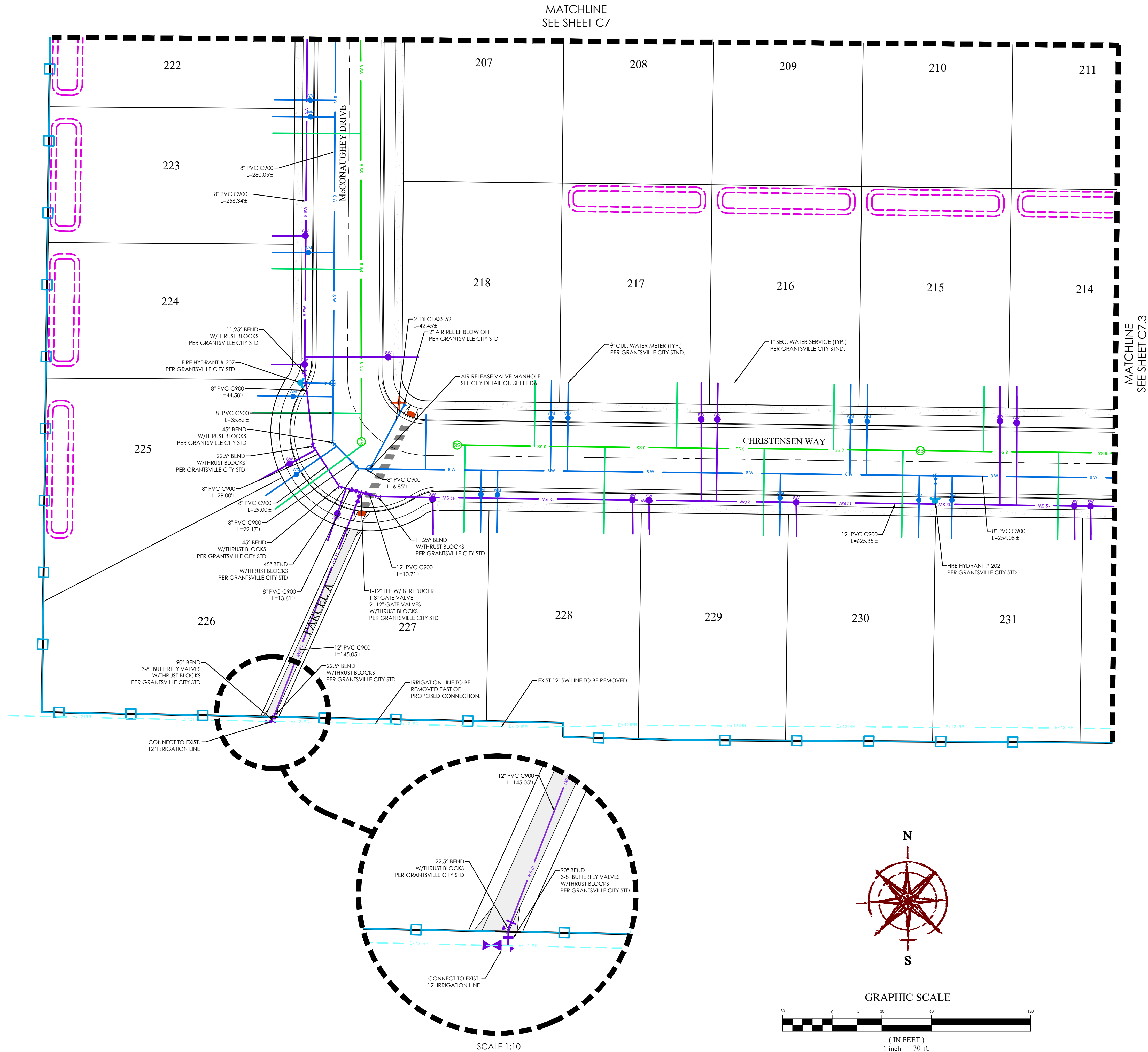
MATTHEWS MEADOWS SUBDIVISION PHASE 2  
GRANTSVILLE, UT  
WATER PLAN

REVISION BLOCK	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		

WATER PLAN	
Scale: 1"=30'	Drawn: MEF
Date: 04/03/24	Job #: 23-0012
Sheet:	C7.1

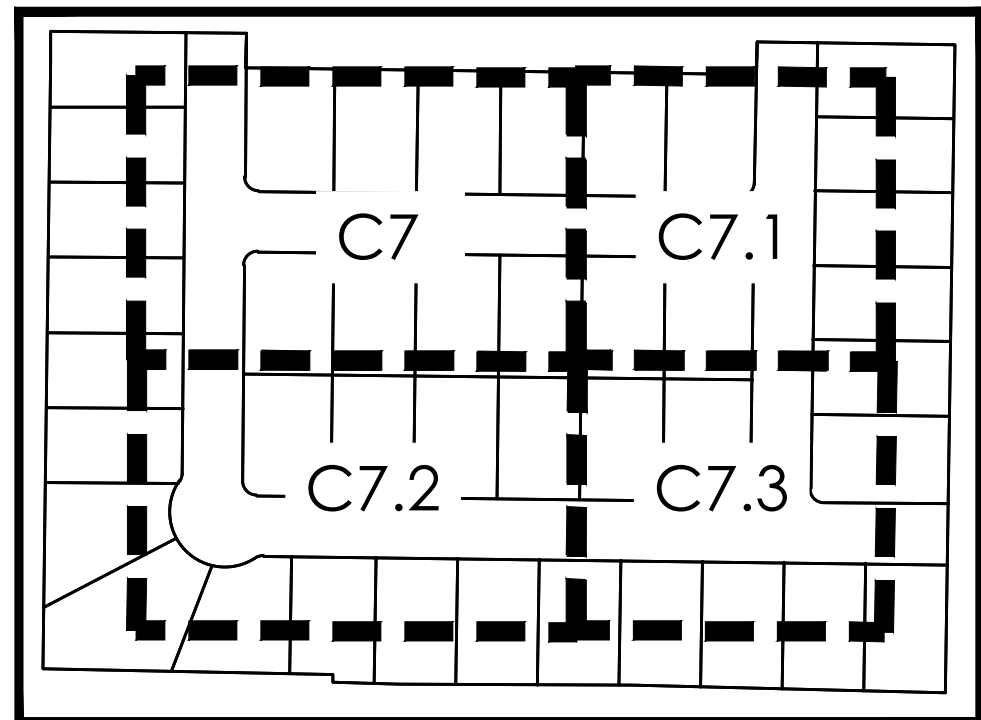






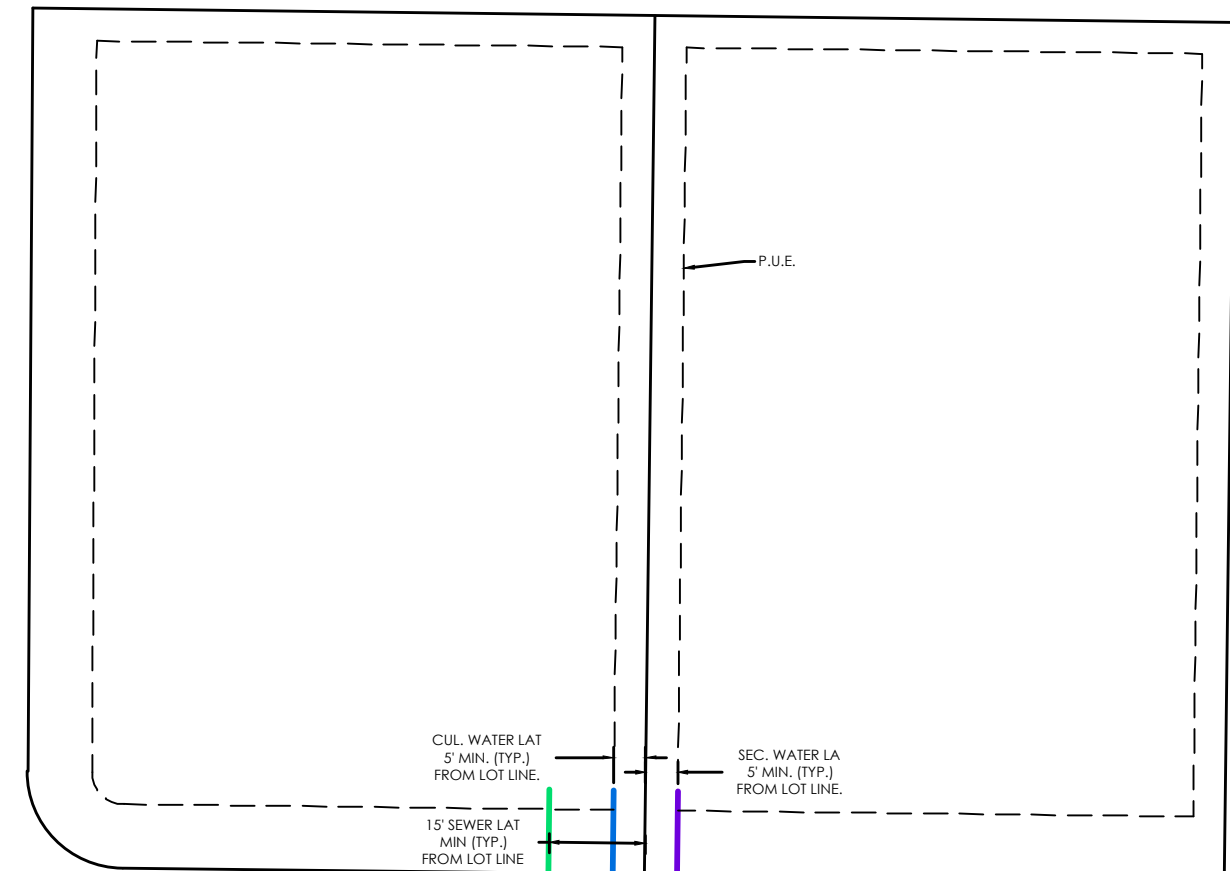
**LEGEND**

BOUNDARY	XX SD	EXIST. STORM DRAIN
ROW	XX SS	EXIST. SANITARY SEWER
CENTERLINE	XX W	EXIST. CULINARY WATER
LOT LINE	XX SW	EXIST. CULINARY WATER
EASEMENT	XXXX	EXIST. CONTOUR MAJOR
CONTOUR MAJOR	XXXX	EXIST. CONTOUR MAJOR
CONTOUR MINOR	XXXX	EXIST. CONTOUR MINOR
EXIST. STORM DRAIN	XXXX	EXIST. CONTOUR MINOR
EXIST. SANITARY SEWER	XXXX	EXIST. CONTOUR MINOR
EXIST. CULINARY WATER	XXXX	EXIST. CONTOUR MINOR
EXIST. FENCE	XXXX	EXIST. CONTOUR MINOR
EXIST. CONTOUR MAJOR	XXXX	EXIST. CONTOUR MINOR
EXIST. CONTOUR MINOR	XXXX	EXIST. CONTOUR MINOR
SIGN	XXXX	EXIST. CONTOUR MINOR
STREET LIGHT	XXXX	EXIST. CONTOUR MINOR
SD MH, INLET, AND COMBO	XXXX	EXIST. CONTOUR MINOR
SEWER MANHOLE	XXXX	EXIST. CONTOUR MINOR
SECONDARY METER, WATER METER	XXXX	EXIST. CONTOUR MINOR
CULINARY VALVE, TEE & BEND	XXXX	EXIST. CONTOUR MINOR
SECONDARY VALVE, TEE & BEND	XXXX	EXIST. CONTOUR MINOR
WATER BLOW-OFF	XXXX	EXIST. CONTOUR MINOR
FIRE HYDRANT	XXXX	EXIST. CONTOUR MINOR
STREET MONUMENT (TO BE SET)	XXXX	EXIST. CONTOUR MINOR
EXIST. STREET MONUMENT	XXXX	EXIST. CONTOUR MINOR
EXIST. SD INLET & MH	XXXX	EXIST. CONTOUR MINOR
EXIST. SEWER MH	XXXX	EXIST. CONTOUR MINOR
EXIST. VALVE, TEE, & BEND	XXXX	EXIST. CONTOUR MINOR
EXIST. FIRE HYDRANT	XXXX	EXIST. CONTOUR MINOR
SPOT ELEVATION	XXXX	EXIST. CONTOUR MINOR

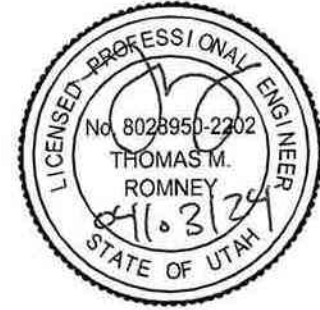


**KEY MAP**  
N.T.S.

- NOTES:
- 10' MIN. HORIZONTAL SEPARATION BETWEEN CULINARY WATER AND SANITARY SEWER AND STORM DRAIN.
  - CONTRACTOR TO VERIFY LOCATION AND ELEVATION OF UTILITIES AND ROAD IMPROVEMENTS UPON COMPLETION OF CONSTRUCTION OF MATTHEWS MEADOWS PHASE 1.
  - 18" VERT SEPARATION BETWEEN WATER AND OTHER WET UTILITIES.



LATERAL TYPICAL



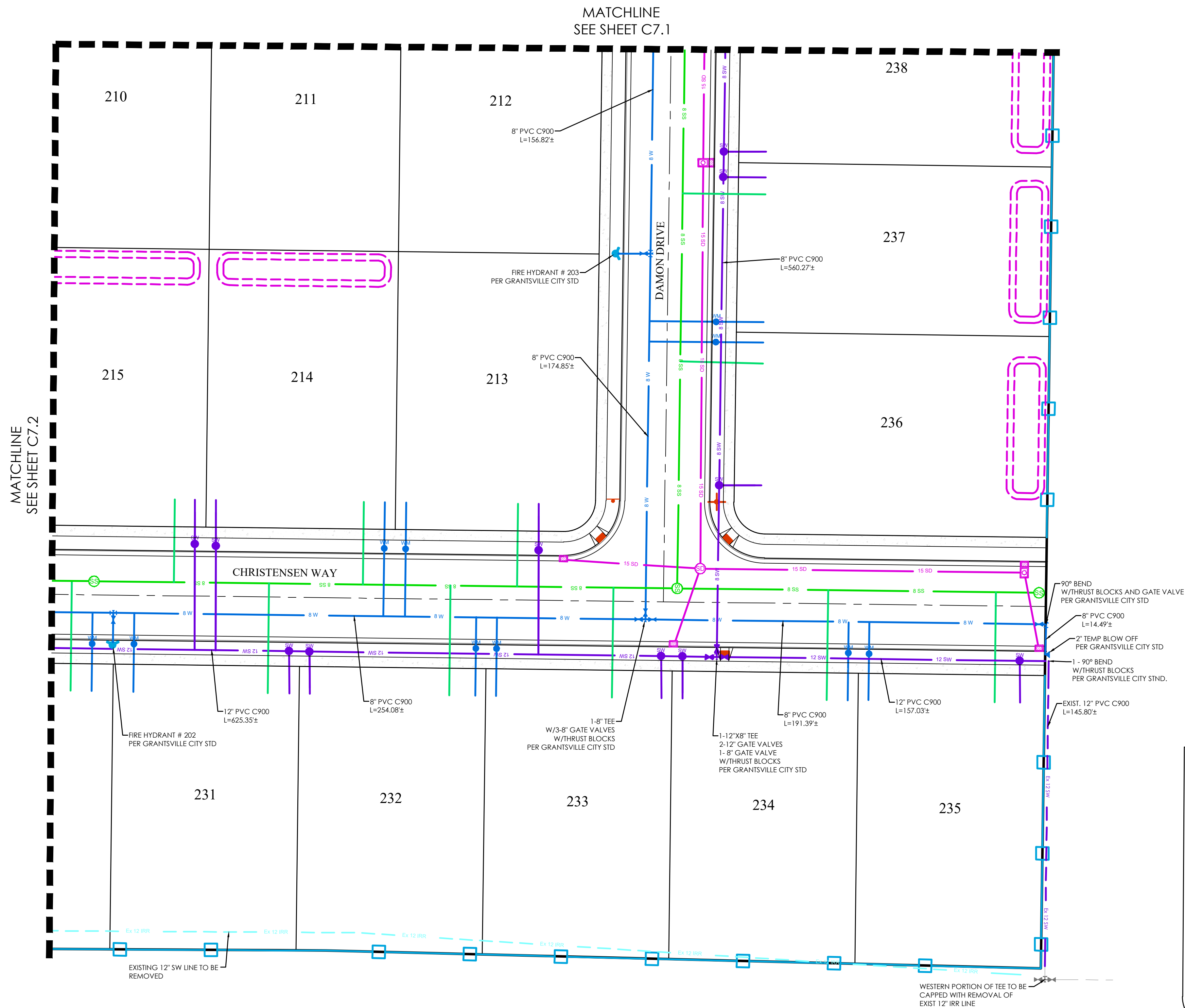
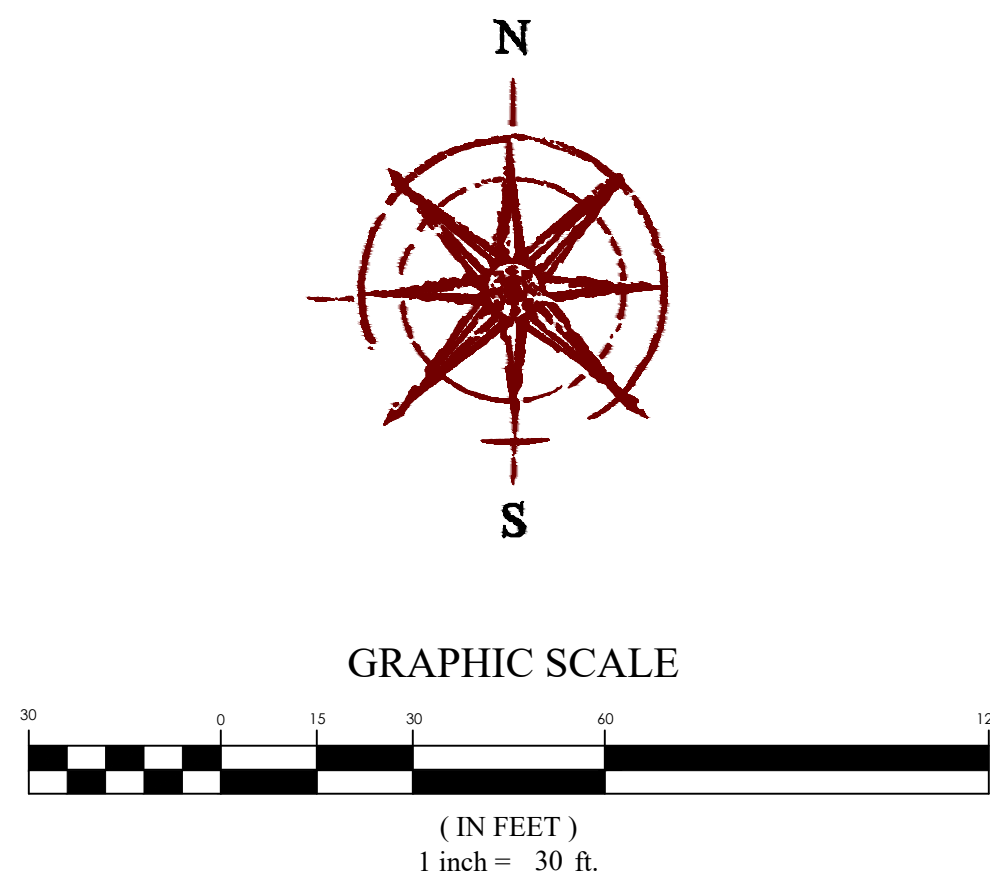
**MATTHEWS MEADOWS SUBDIVISION PHASE 2**  
**GRANTSVILLE, UT**  
**WATER PLAN**

REVISION BLOCK	DATE	DESCRIPTION
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WATER PLAN	
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Date: 04/03/24	Job #: 23-0012
Sheet:	C7.2

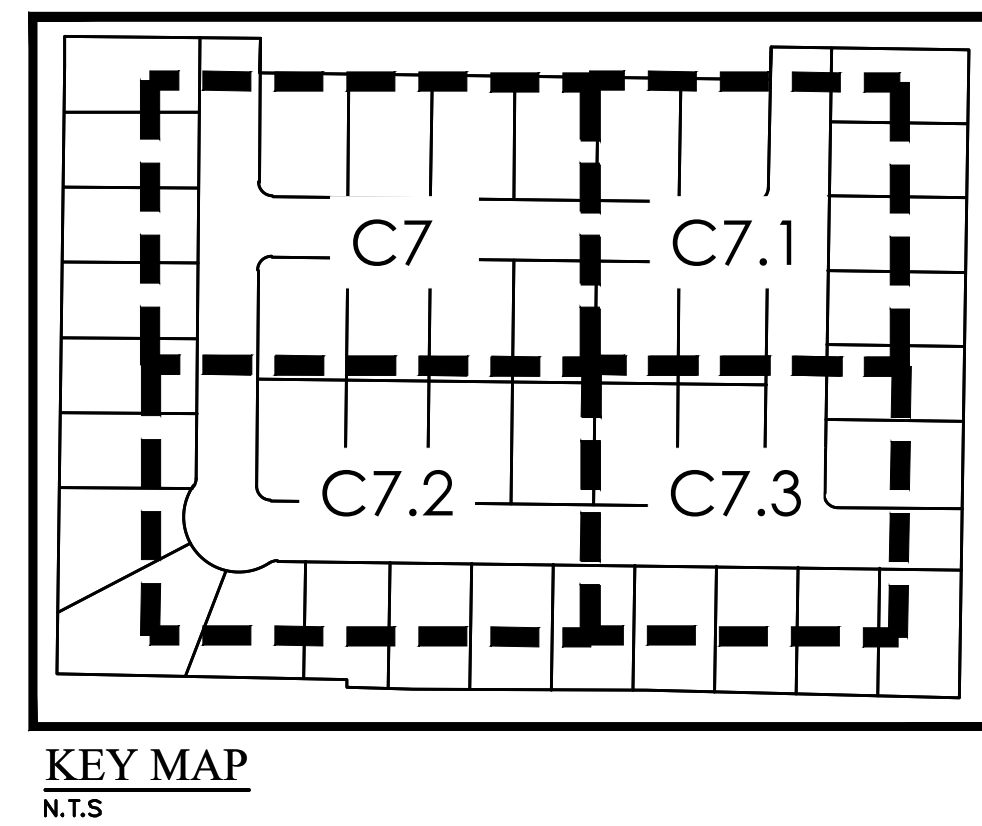




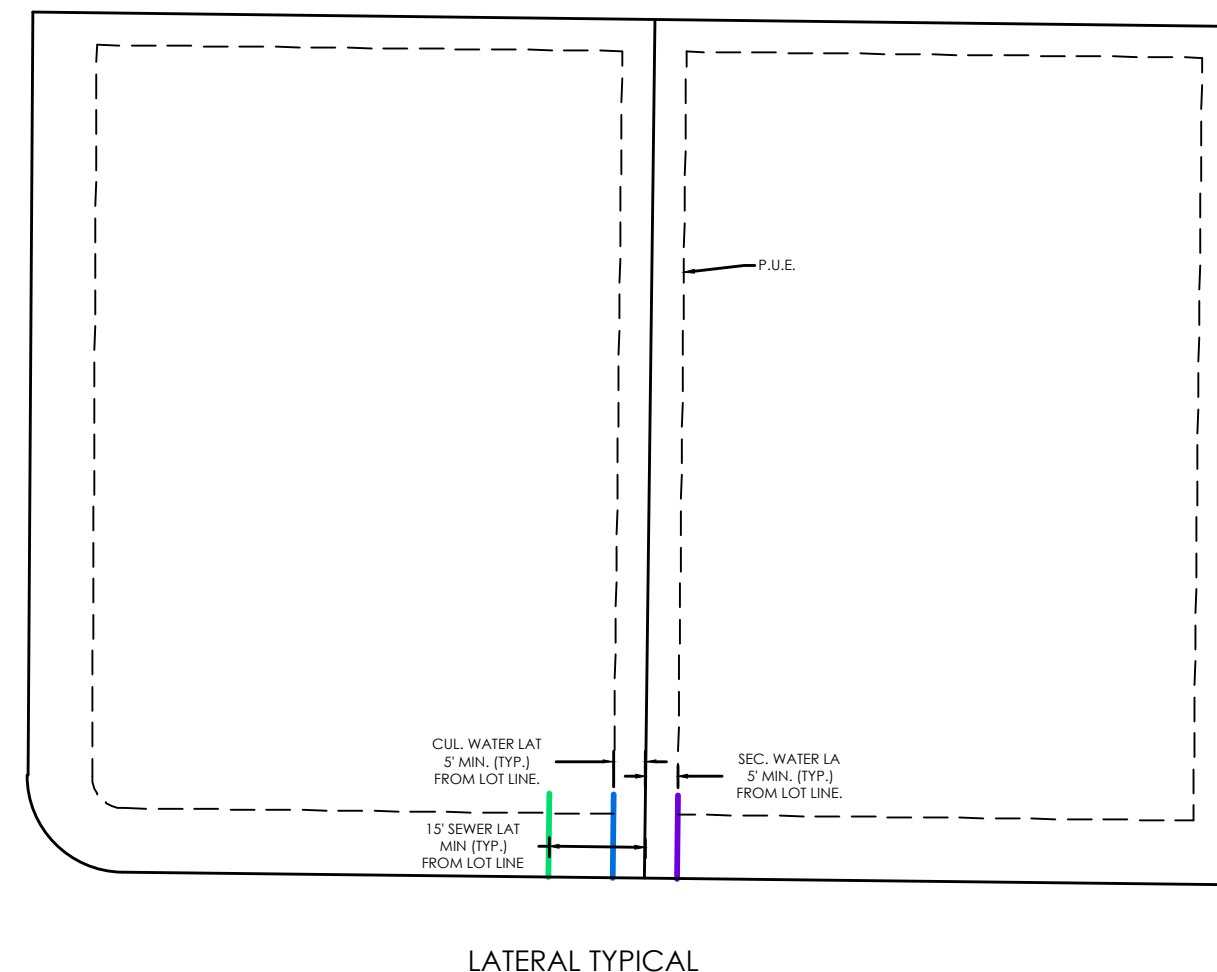


LEGEND

BOUNDARY	XX SD	EXIST. STORM DRAIN
ROW	XX SS	EXIST. SANITARY SEWER
CENTERLINE	XX W	EXIST. CULINARY WATER
LOT LINE	XX SW	EXIST. CULINARY WATER
EASEMENT	XXXX	EXIST. CONTOUR MAJOR
XX" STORM DRAIN	XXXX	EXIST. CONTOUR MINOR
XX" SANITARY SEWER	XXXX	EXIST. CONTOUR MAJOR
XX" CULINARY WATER	XXXX	EXIST. CONTOUR MINOR
XX" SECONDARY WATER	XXXX	EXIST. CONTOUR MAJOR
CONTOUR MAJOR	XXXX	EXIST. CONTOUR MINOR
CONTOUR MINOR	XXXX	EXIST. CONTOUR MAJOR
EXIST. STORM DRAIN	XXXX	EXIST. CONTOUR MINOR
EXIST. SANITARY SEWER	XXXX	EXIST. CONTOUR MAJOR
EXIST. CULINARY WATER	XXXX	EXIST. CONTOUR MINOR
EXIST. CULINARY WATER	XXXX	EXIST. CONTOUR MAJOR
EXIST. FENCE	XXXX	EXIST. CONTOUR MINOR
EXIST. CONTOUR MAJOR	XXXX	EXIST. CONTOUR MAJOR
EXIST. CONTOUR MINOR	XXXX	EXIST. CONTOUR MINOR
SIGN	XXXX	EXIST. CONTOUR MAJOR
STREET LIGHT	XXXX	EXIST. CONTOUR MINOR
SD MH, INLET, AND COMBO	XXXX	EXIST. CONTOUR MAJOR
SEWER MANHOLE	XXXX	EXIST. CONTOUR MINOR
SECONDARY METER, WATER METER	XXXX	EXIST. CONTOUR MAJOR
CULINARY VALVE, TEE & BEND	XXXX	EXIST. CONTOUR MINOR
SECONDARY VALVE, TEE & BEND	XXXX	EXIST. CONTOUR MAJOR
WATER BLOW-OFF	XXXX	EXIST. CONTOUR MINOR
FIRE HYDRANT	XXXX	EXIST. CONTOUR MAJOR
STREET MONUMENT (TO BE SET)	XXXX	EXIST. CONTOUR MINOR
EXIST. STREET MONUMENT	XXXX	EXIST. CONTOUR MAJOR
EXIST. SD INLET & MH	XXXX	EXIST. CONTOUR MINOR
EXIST. SEWER MH	XXXX	EXIST. CONTOUR MAJOR
EXIST. VALVE, TEE, & BEND	XXXX	EXIST. CONTOUR MINOR
EXIST. FIRE HYDRANT	XXXX	EXIST. CONTOUR MAJOR
SPOT ELEVATION	XXXX	EXIST. CONTOUR MINOR



- NOTES:
- 10' MIN. HORIZONTAL SEPARATION BETWEEN CULINARY WATER AND SANITARY SEWER AND STORM DRAIN.
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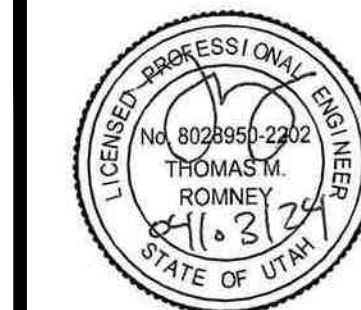
MATTHEWS MEADOWS SUBDIVISION PHASE 2

GRANTSVILLE, UT

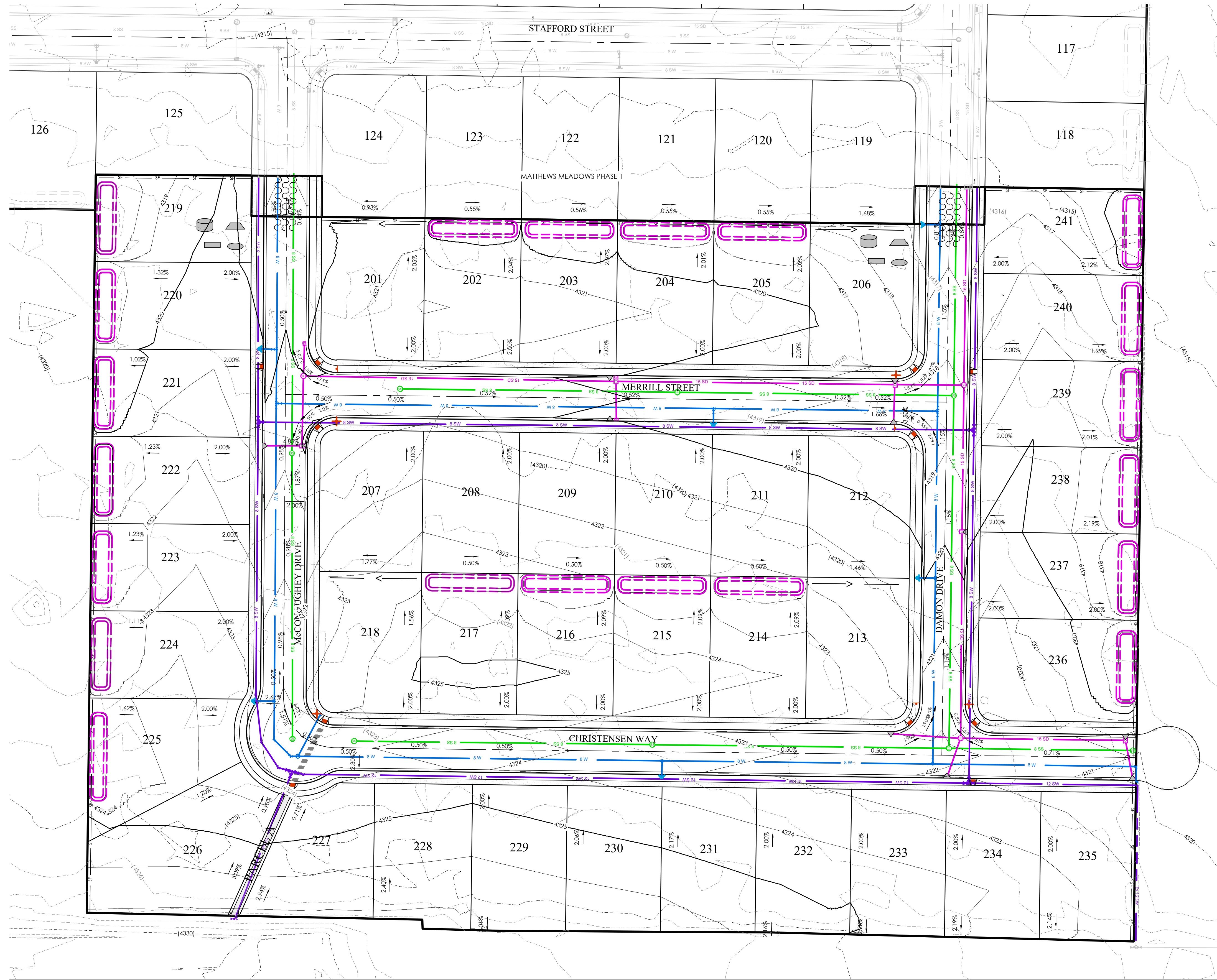
WATER PLAN

REVISION BLOCK	DATE	DESCRIPTION
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Date: 04/03/24	Job #: 23-0012
Sheet:	
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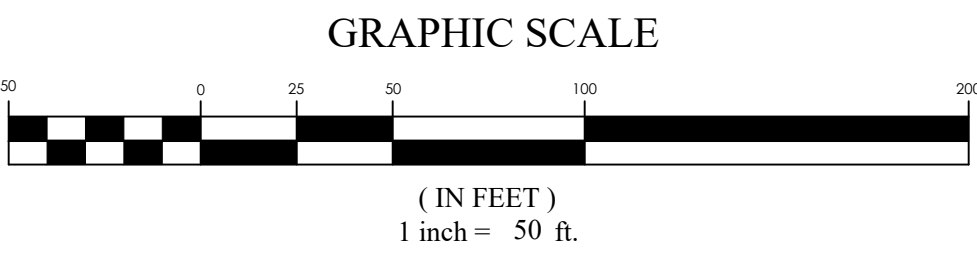






EROSION CONTROL LEGEND

- CONSTRUCTION ENTRANCE
- MATERIALS STORAGE
- FUEL TANKS
- CONCRETE WASHOUT
- TRASH BIN
- PORTABLE TOILET
- CONSTRUCTION TRAILER
- INLET PROTECTION
- SURFACE WATERS
- OUTFALL
- SILT FENCE OR BERM
- CUTBACK CURB
- FIBER ROLL
- SWALE



MATTHEWS MEADOWS SUBDIVISION PHASE 2  
GRANTSVILLE, UT  
EROSION CONTROL PLAN

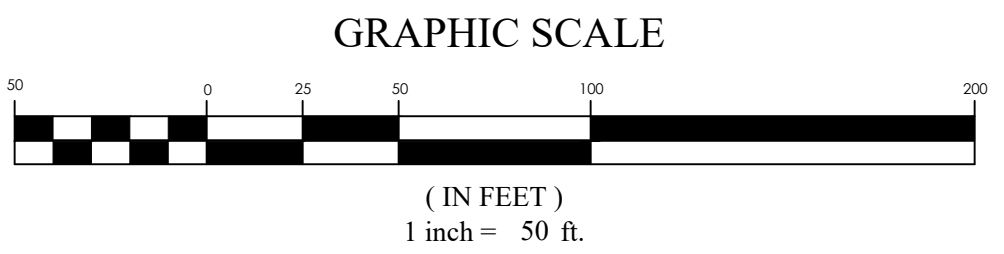
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EROSION CONTROL PLAN	
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Date: 04/03/24	Job #: 23-0012
Sheet:	C8



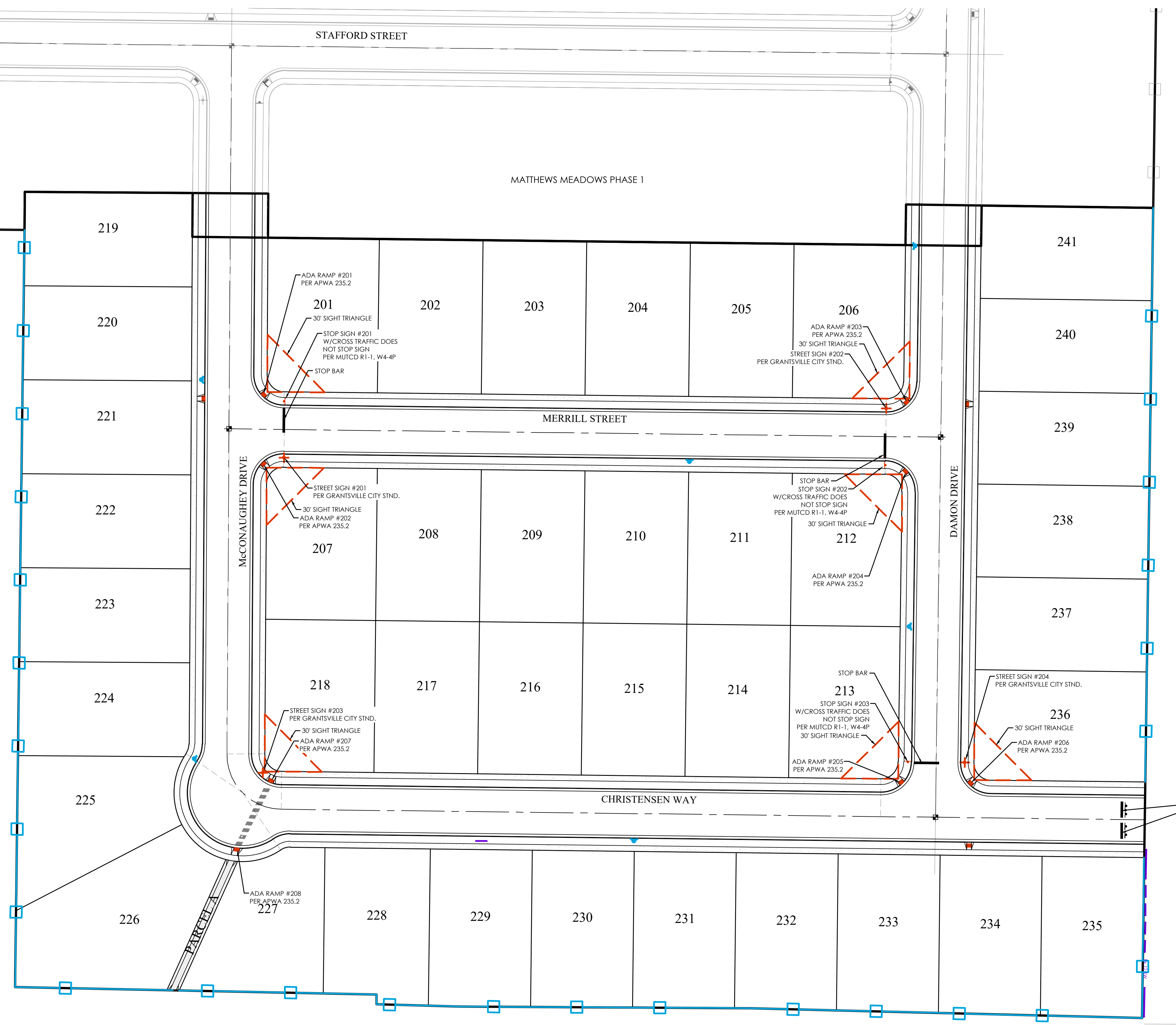
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MIDVALE, UTAH 84047 PH: (801) 352-0075  
www.focusnh.com






LEGEND	
[Symbol]	BOUNDARY
[Symbol]	ROW
[Symbol]	CENTERLINE
[Symbol]	LOT LINE
[Symbol]	EASEMENT
[Symbol]	XX" STORM DRAIN
[Symbol]	XX" SANITARY SEWER
[Symbol]	XX" CULINARY WATER
[Symbol]	XX" SECONDARY WATER
[Symbol]	CONTOUR MAJOR
[Symbol]	CONTOUR MINOR
[Symbol]	EXIST. STORM DRAIN
[Symbol]	EXIST. SANITARY SEWER
[Symbol]	EXIST. CULINARY WATER
[Symbol]	EXIST. FENCE
[Symbol]	EXIST. CONTOUR MAJOR
[Symbol]	EXIST. CONTOUR MINOR

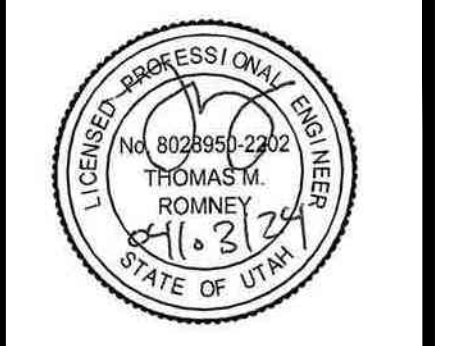
LEGEND	
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[Symbol]	STREET LIGHT
[Symbol]	SD MH, INLET, AND COMBO
[Symbol]	SEWER MANHOLE
[Symbol]	SECONDARY METER, WATER MET
[Symbol]	CULINARY VALVE, TEE & BEND
[Symbol]	SECONDARY VALVE, TEE & BEND
[Symbol]	WATER BLOW-OFF
[Symbol]	FIRE HYDRANT
[Symbol]	STREET MONUMENT (TO BE SET)
[Symbol]	EXIST. STREET MONUMENT
[Symbol]	EXIST. SD INLET & MH
[Symbol]	EXIST. SEWER MH
[Symbol]	EXIST. VALVE, TEE, & BEND
[Symbol]	EXIST. FIRE HYDRANT
[Symbol]	SPOT ELEVATION



JERSEY BARRICADES W/ OM4-1  
END-OF-ROADWAY MARKERS PER  
MUTCD STANDARDS.



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www.focusnh.com



MATTHEWS MEADOWS SUBDIVISION PHASE 2

GRANTSVILLE, UT

OVERALL SIGNAGE & STRIPING PLAN

REVISION BLOCK	
#	DESCRIPTION
1	
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OVERALL  
SIGNAGE &  
STRIPING  
PLAN

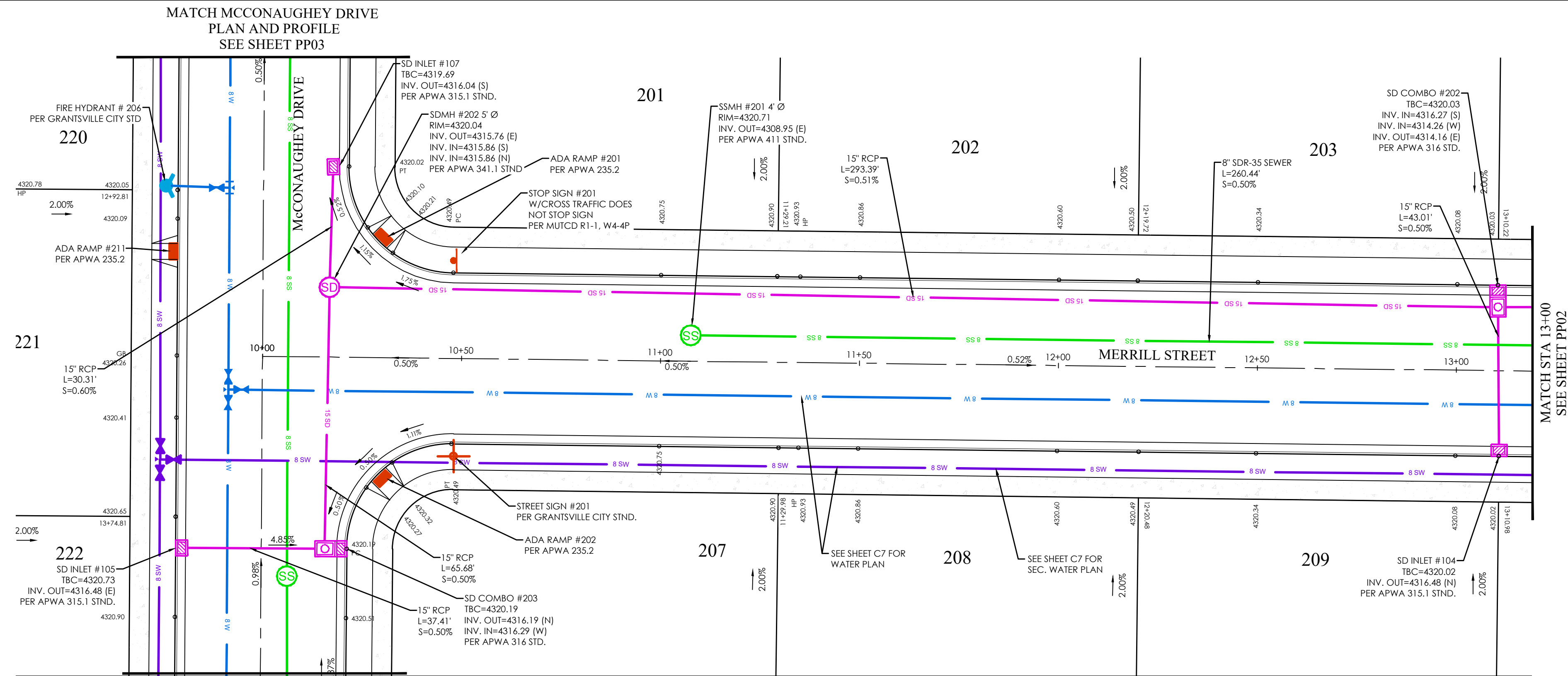
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Sheet:

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Job #: 23-0012

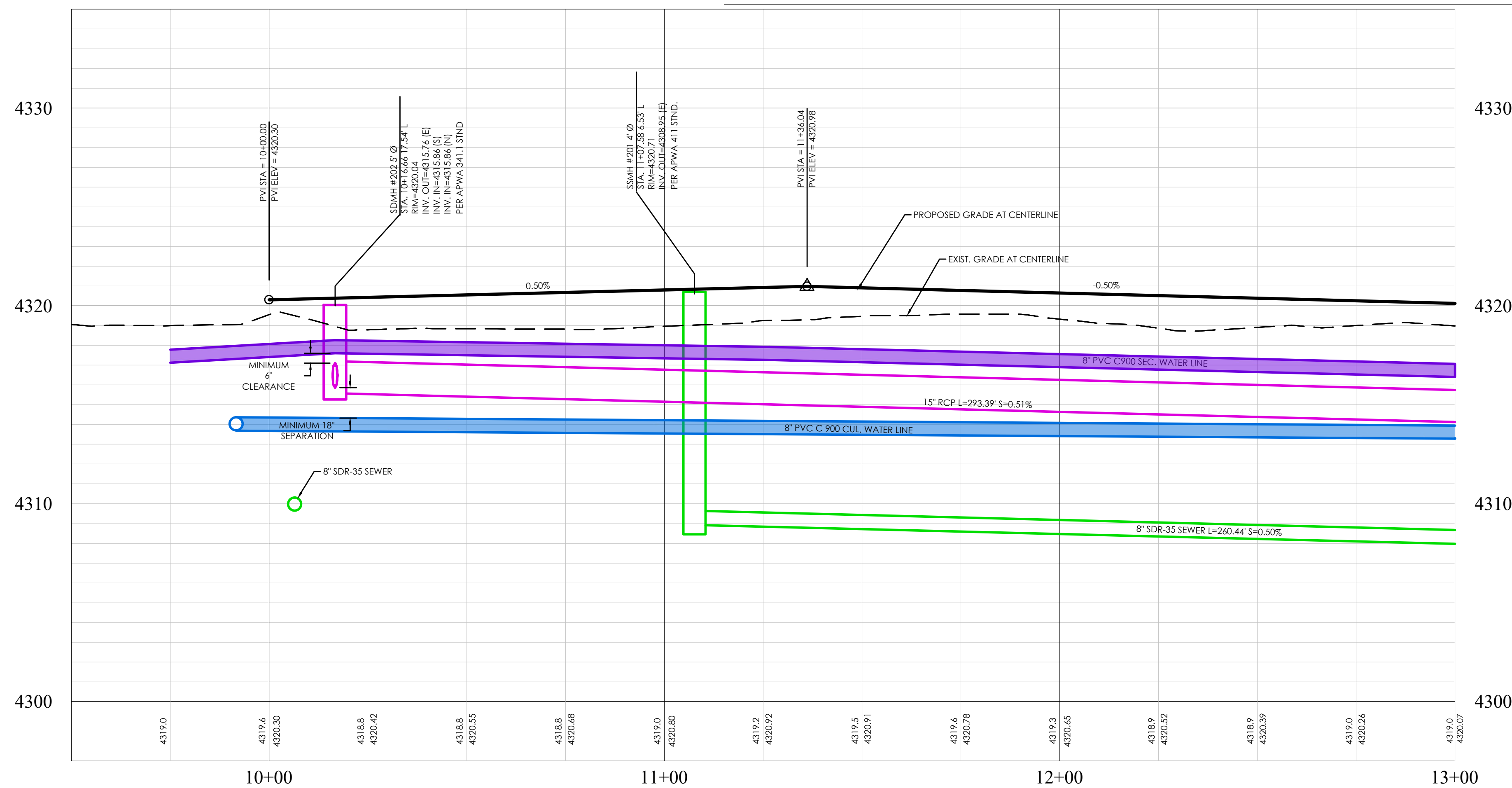
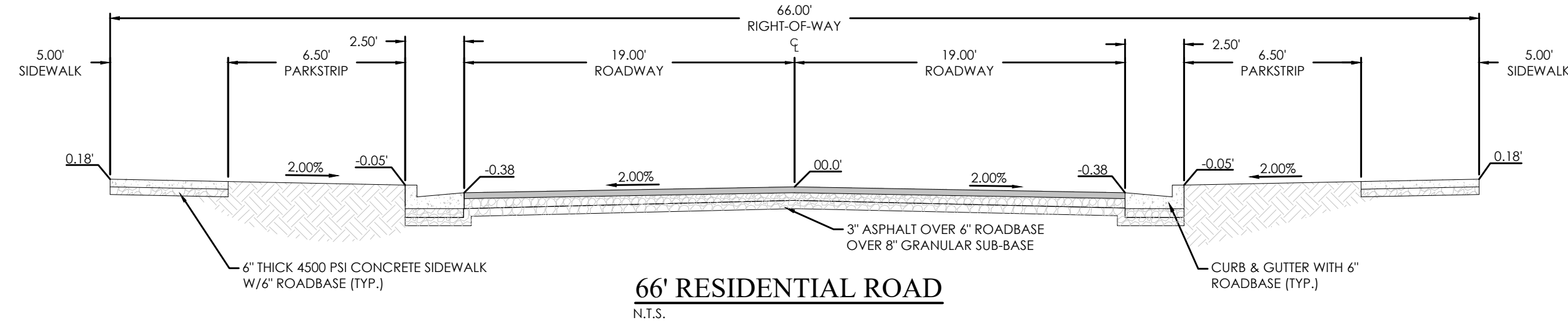
C9

z:\2023\230012\matthews meadows phase 2\design\23-0012\GWS\Streets\C9 - OVERALL SIGNAGE & STRIPING PLAN.dwg



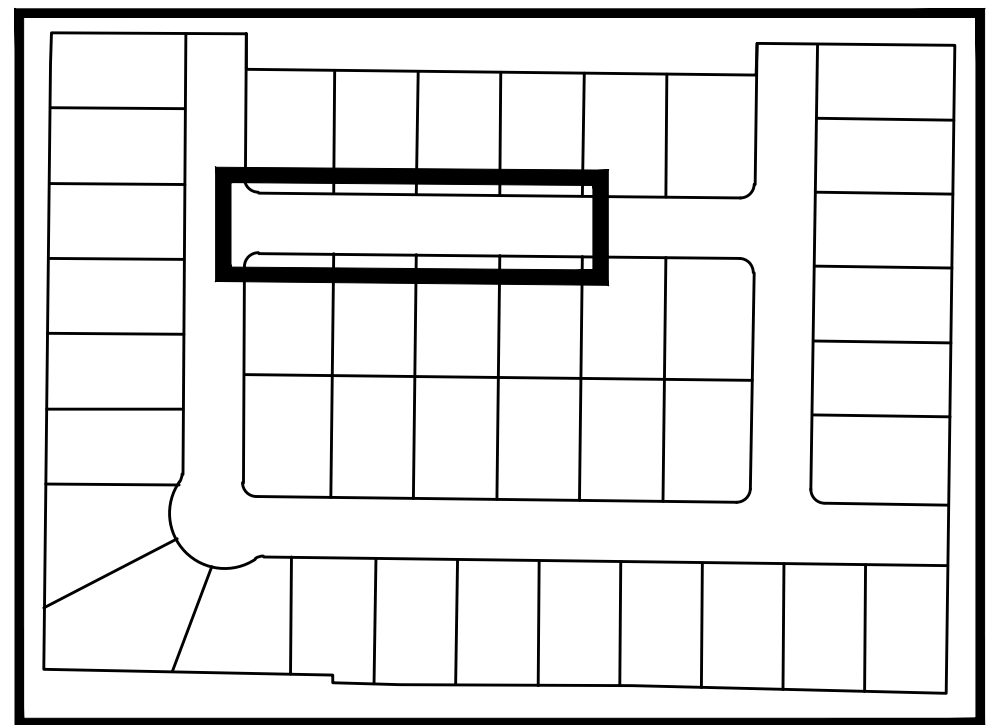


MERRILL STREET PLAN



LEGEND

- BOUNDARY  
ROW  
CENTERLINE  
LOT LINE  
EASEMENT  
XX SD XX" STORM DRAIN  
XX SS XX" SANITARY SEWER  
XX W XX" CULINARY WATER  
XX SW XX" SECONDARY WATER  
XXXXX CONTOUR MAJOR  
XXXXX CONTOUR MINOR  
XXXXX EXIST. STORM DRAIN  
XXXXX EXIST. SANITARY SEWER  
XXXXX EXIST. CULINARY WATER  
XXXXX EXIST. FENCE  
XXXXX EXIST. CONTOUR MAJOR  
XXXXX EXIST. CONTOUR MINOR  
SIGN  
STREET LIGHT  
SD MH, INLET, AND COMBO  
SEWER MANHOLE  
SECONDARY METER, WATER METER  
CULINARY VALVE, TEE & BEND  
WATER BLOW-OFF  
FIRE HYDRANT  
STREET MONUMENT (TO BE SET)  
EXIST. STREET MONUMENT  
EXIST. SD INLET & MH  
EXIST. SEWER MH  
EXIST. VALVE, TEE, & BEND  
EXIST. FIRE HYDRANT  
SPOT ELEVATION



KEY MAP  
N.T.S.

NOTES:

1. SD PIPE SHALL BE RCP OR HIGH PERFORMANCE STORM POLYPROPYLENE PIPE (HP STORM).

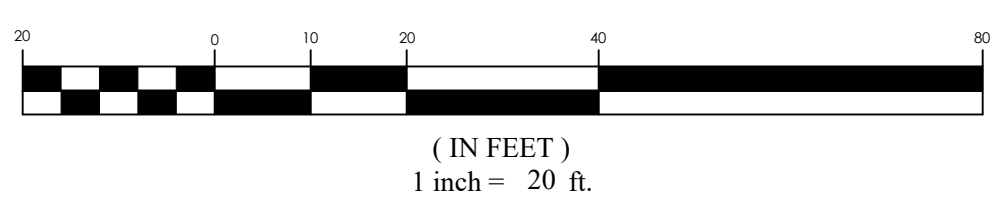
WITH CENTERLINE SLOPES THAT ARE DESIGNED AT MINIMUM 0.5% CONTRACTOR TO VERIFY THAT CURB & GUTTER, FLOW LINE DOES NOT SLOPE LESS THAN 0.5%.

BENCHMARK

NORTHEAST CORNER OF SECTION 05  
TOWNSHIP 03 SOUTH RANGE 05 WEST  
SALT LAKE BASE AND MERIDIAN  
ELEV: 4309.08'  
DATUM: NAVD88

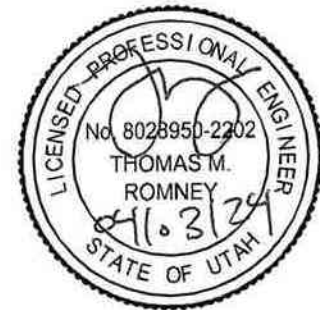


GRAPHIC SCALE



REVISION BLOCK	
#	DESCRIPTION
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MATTHEWS MEADOWS SUBDIVISION PHASE 2  
GRANTSVILLE, UT  
MERRILL STREET

REVISION BLOCK	
#	DESCRIPTION
1	
2	
3	
4	
5	
6	

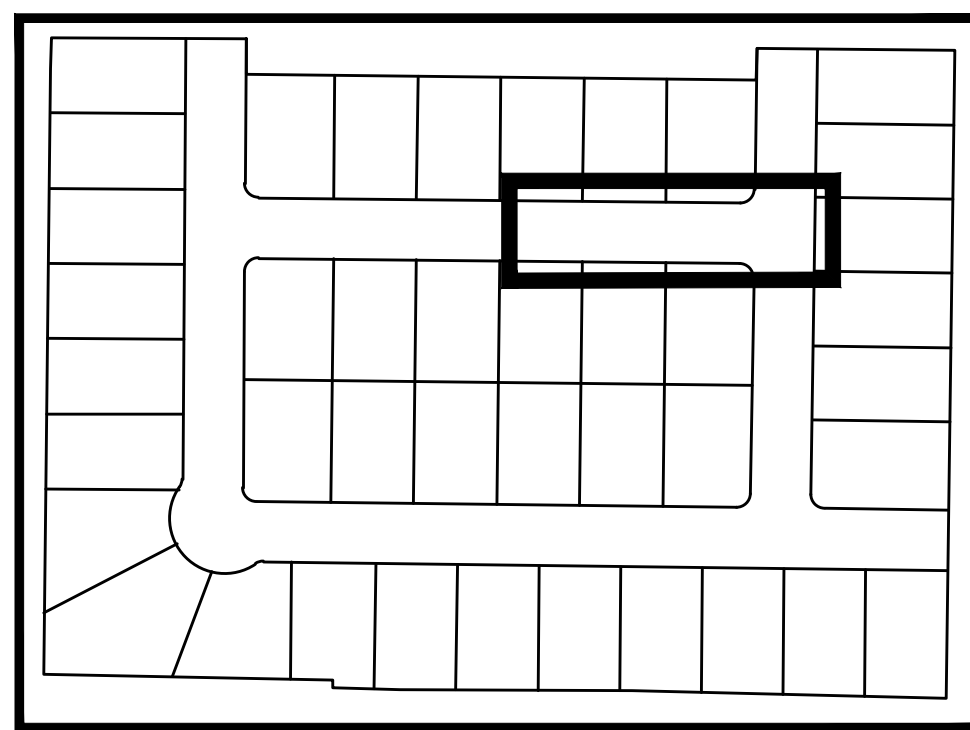
**MERRILL STREET**

Scale: 1"=20'  
Date: 04/03/24  
Sheet: PP02

Drawn: LCB  
Job #: 23-0012

LEGEND

- BOUNDARY
- ROW
- CENTERLINE
- LOT LINE
- EASEMENT
- XX SD XX" STORM DRAIN
- XX SS XX" SANITARY SEWER
- XX W XX" CULINARY WATER
- XXXX XX" SECONDARY WATER
- XXXXX CONTOUR MAJOR
- XXXXX CONTOUR MINOR
- EXIST. STORM DRAIN
- EXIST. SANITARY SEWER
- EXIST. CULINARY WATER
- EXIST. FENCE
- EXIST. CONTOUR MAJOR
- EXIST. CONTOUR MINOR
- SIGN
- STREET LIGHT
- SD MH, INLET, AND COMBO
- SEWER MANHOLE
- SECONDARY METER, WATER METER
- CULINARY VALVE, TEE & BEND
- WATER BLOW-OFF
- SECONDARY VALVE, TEE & BEND
- FIRE HYDRANT
- STREET MONUMENT (TO BE SET)
- EXIST. STREET MONUMENT
- EXIST. SD INLET & MH
- EXIST. SEWER MH
- EXIST. VALVE, TEE, & BEND
- EXIST. FIRE HYDRANT
- SPOT ELEVATION



KEY MAP  
N.T.S.

NOTES:

- SD PIPE SHALL BE RCP OR HIGH PERFORMANCE STORM POLYPROPYLENE PIPE (HP STORM).

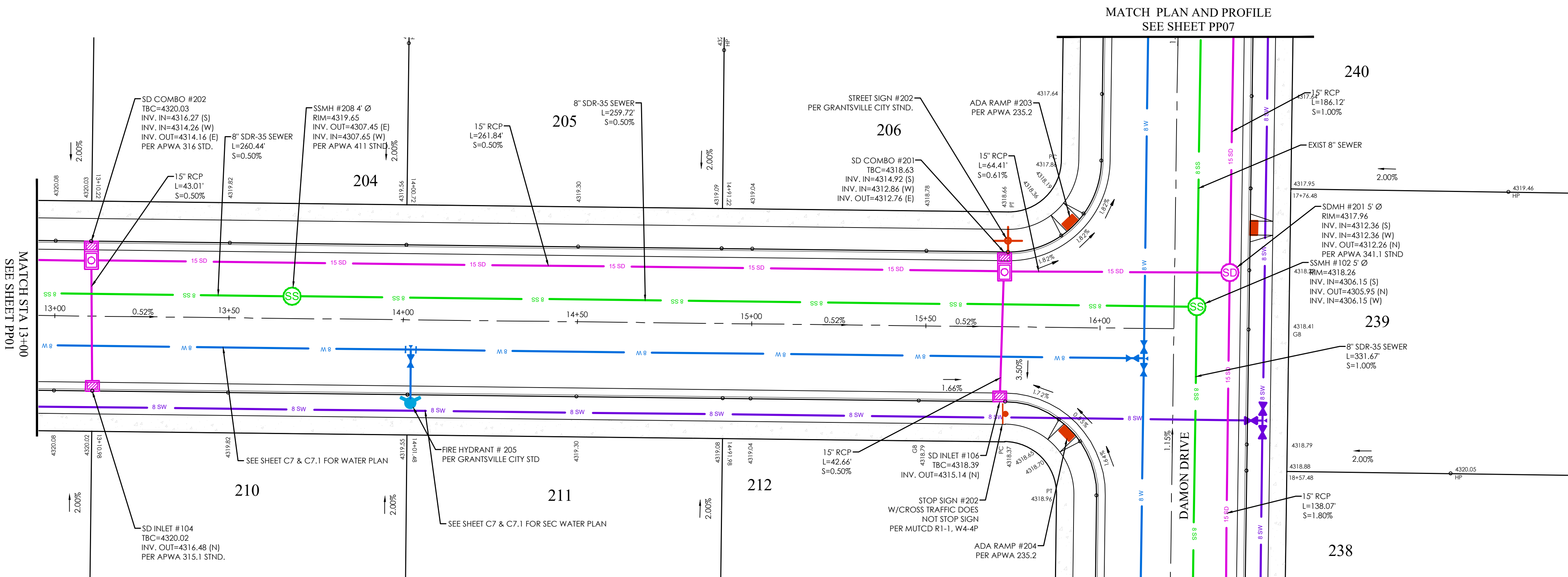
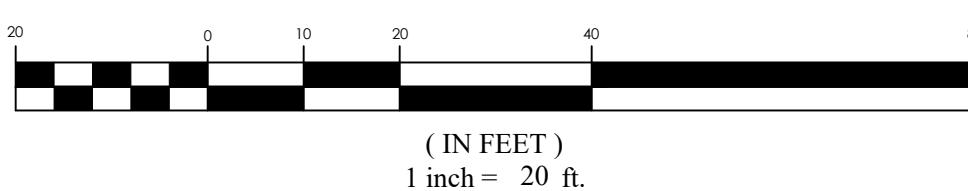
WITH CENTERLINE SLOPES THAT ARE DESIGNED AT MINIMUM 0.5% CONTRACTOR TO VERIFY THAT CURB & GUTTER, FLOW LINE DOES NOT SLOPE LESS THAN 0.5%.

BENCHMARK

NORTHEAST CORNER OF SECTION 05  
TOWNSHIP 05 SOUTH RANGE 05 WEST  
SALT LAKE BASE AND MERIDIAN  
ELEV: 4309.08'  
DATUM: NAVD88

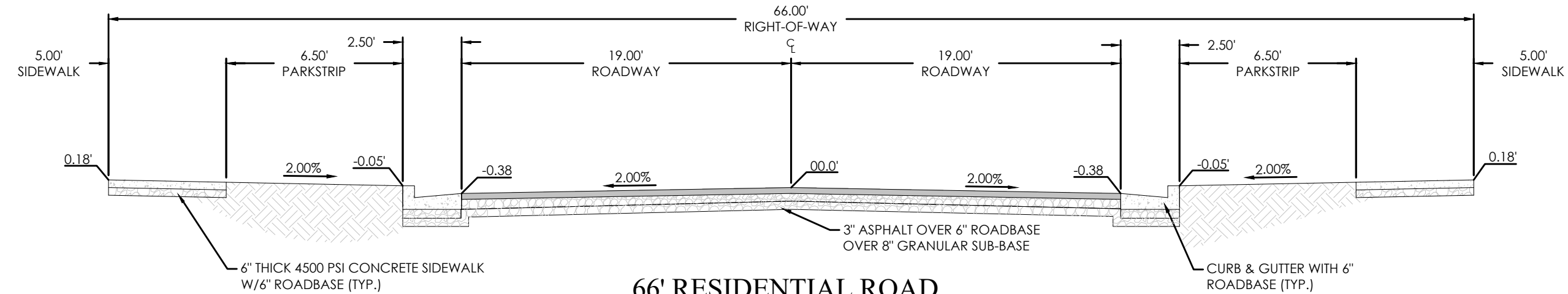


GRAPHIC SCALE

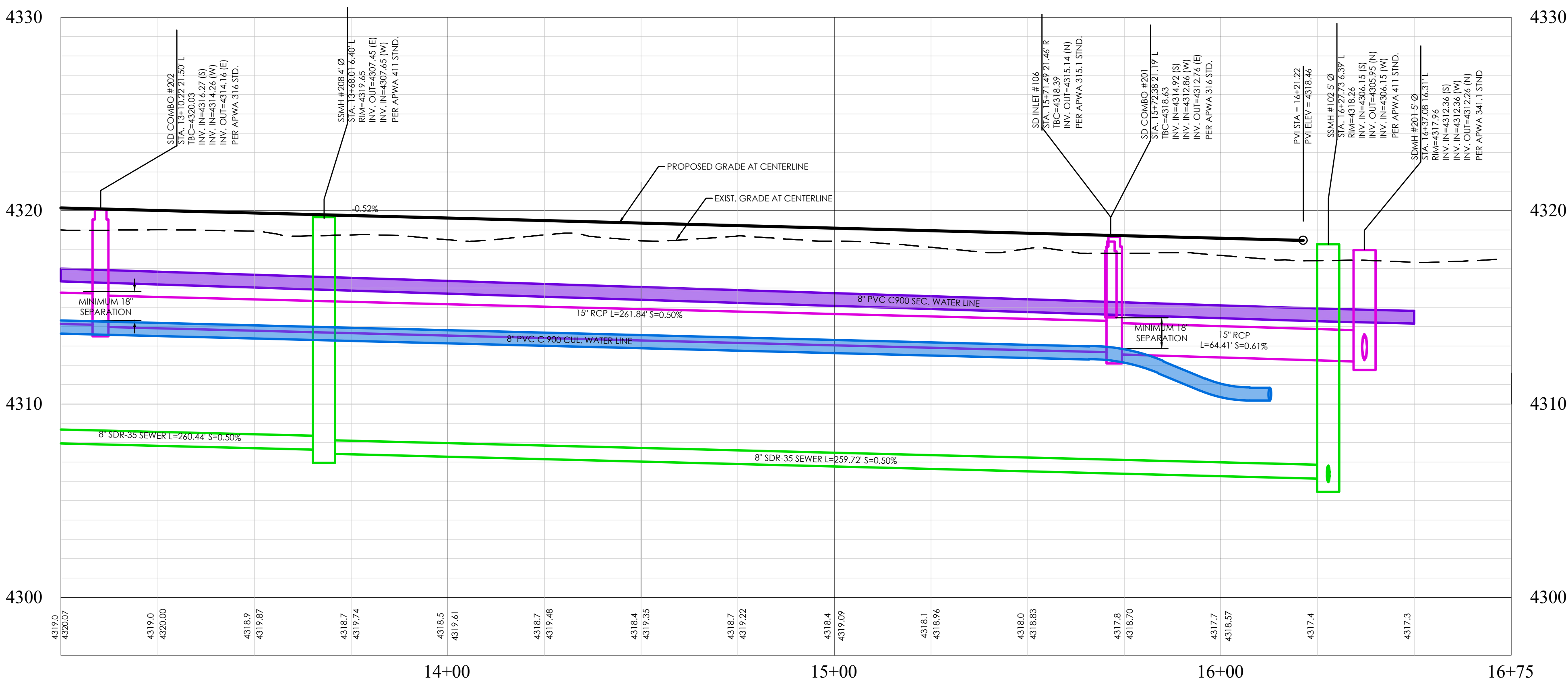


MERRILL STREET PLAN

MATCH PLAN AND PROFILE  
SEE SHEET PP08

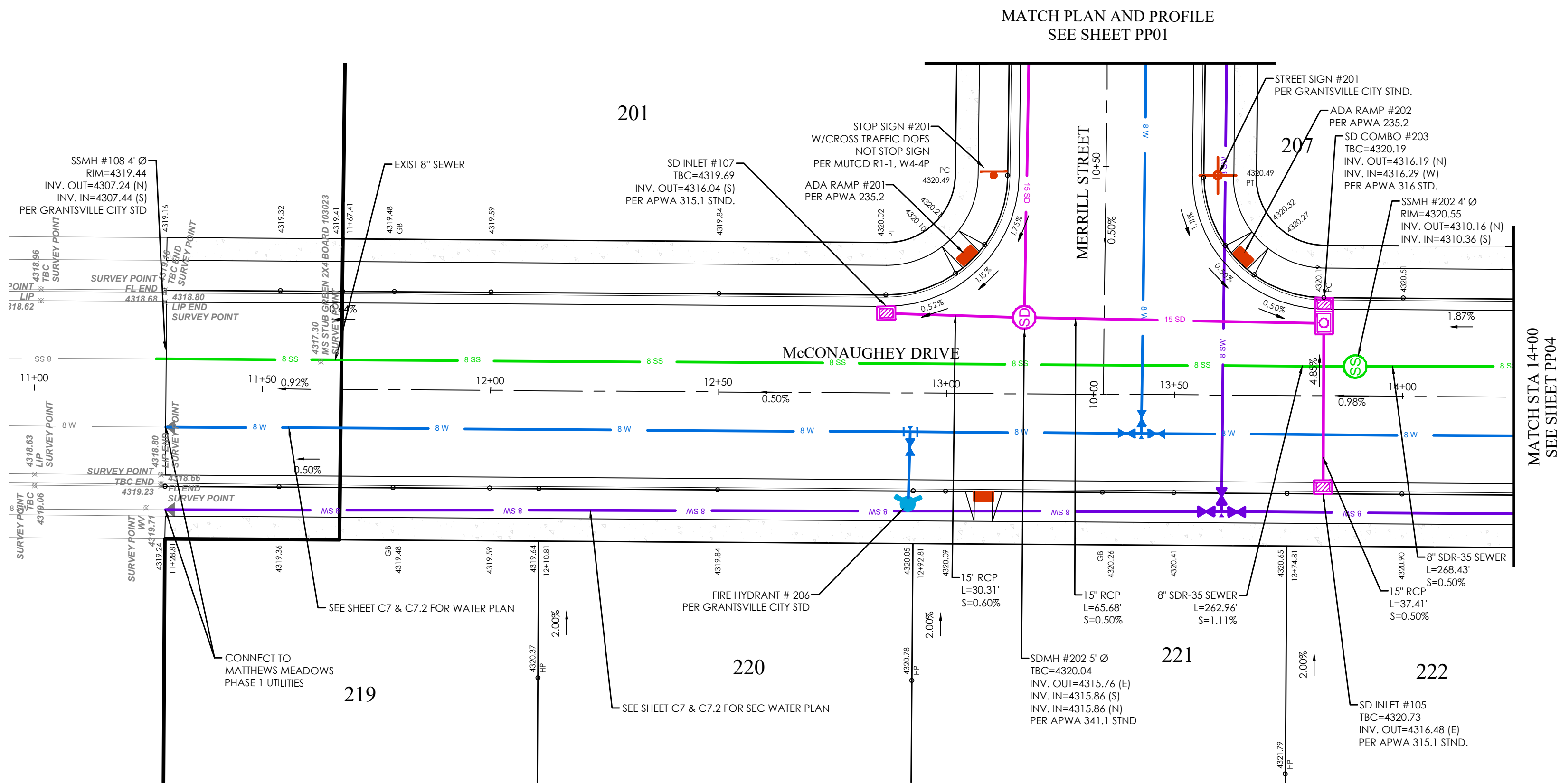


66' RESIDENTIAL ROAD  
N.T.S.

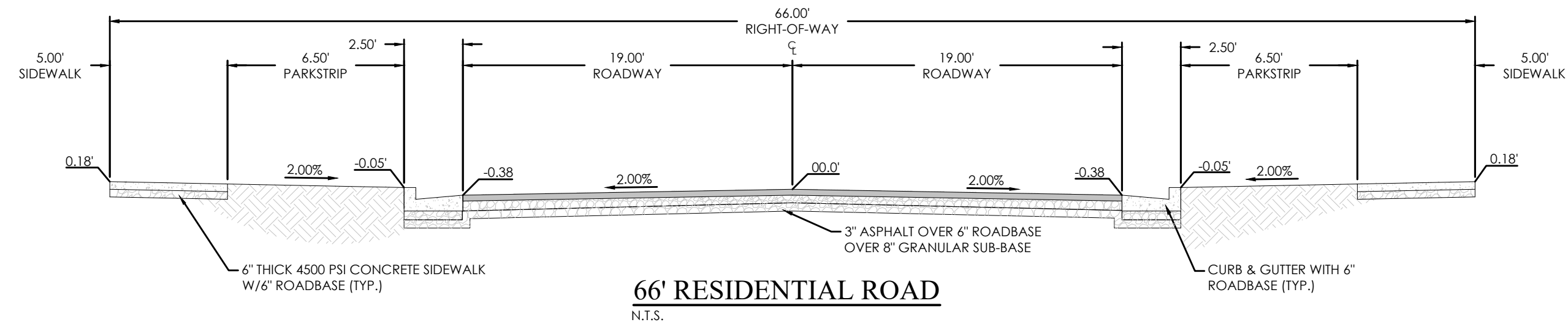


MERRILL STREET PROFILE





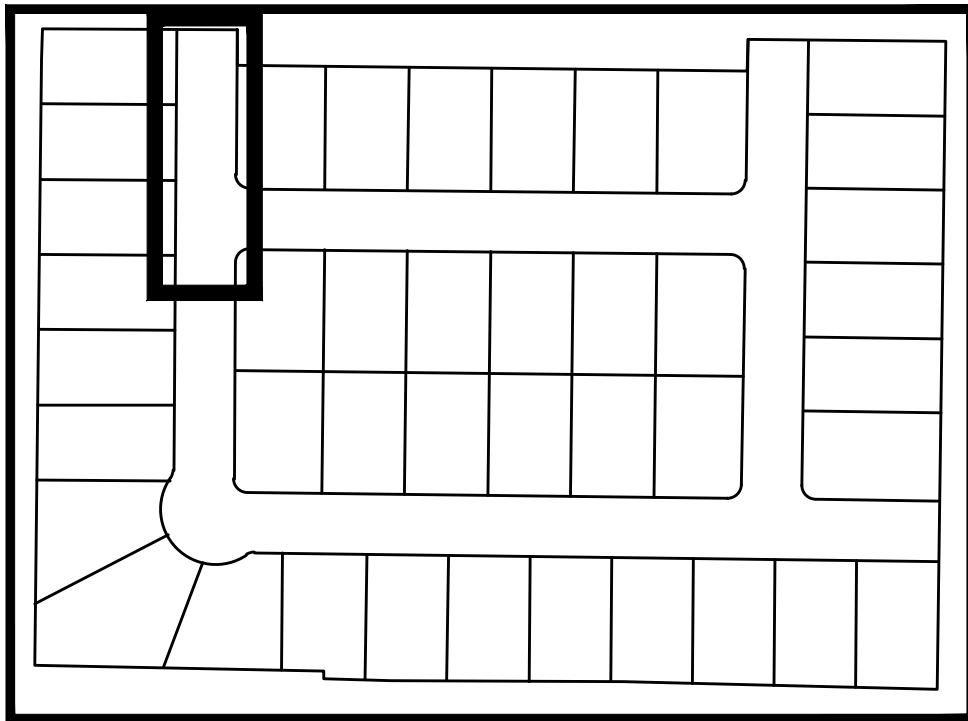
McCONAUGHEY DRIVE PLAN



66' RESIDENTIAL ROAD

N.T.S.

- LEGEND**
- BOUNDARY
  - CENTERLINE
  - LOT LINE
  - EASEMENT
  - XX SD XX" STORM DRAIN
  - XX SS XX" SANITARY SEWER
  - XX W XX" CULINARY WATER
  - XX SW XX" SECONDARY WATER
  - XXXX CONTOUR MAJOR
  - XXXX CONTOUR MINOR
  - Ex SD EXIST. STORM DRAIN
  - Ex SS EXIST. SANITARY SEWER
  - Ex W EXIST. CULINARY WATER
  - Ex SW EXIST. SECONDARY WATER
  - XXXX EXIST. FENCE
  - XXXX EXIST. CONTOUR MAJOR
  - XXXX EXIST. CONTOUR MINOR
  - SIGN
  - STREET LIGHT
  - SD MH, INLET, AND COMBO
  - SEWER MANHOLE
  - SECONDARY METER, WATER METER
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KEY MAP

N.T.S.

**NOTES:**

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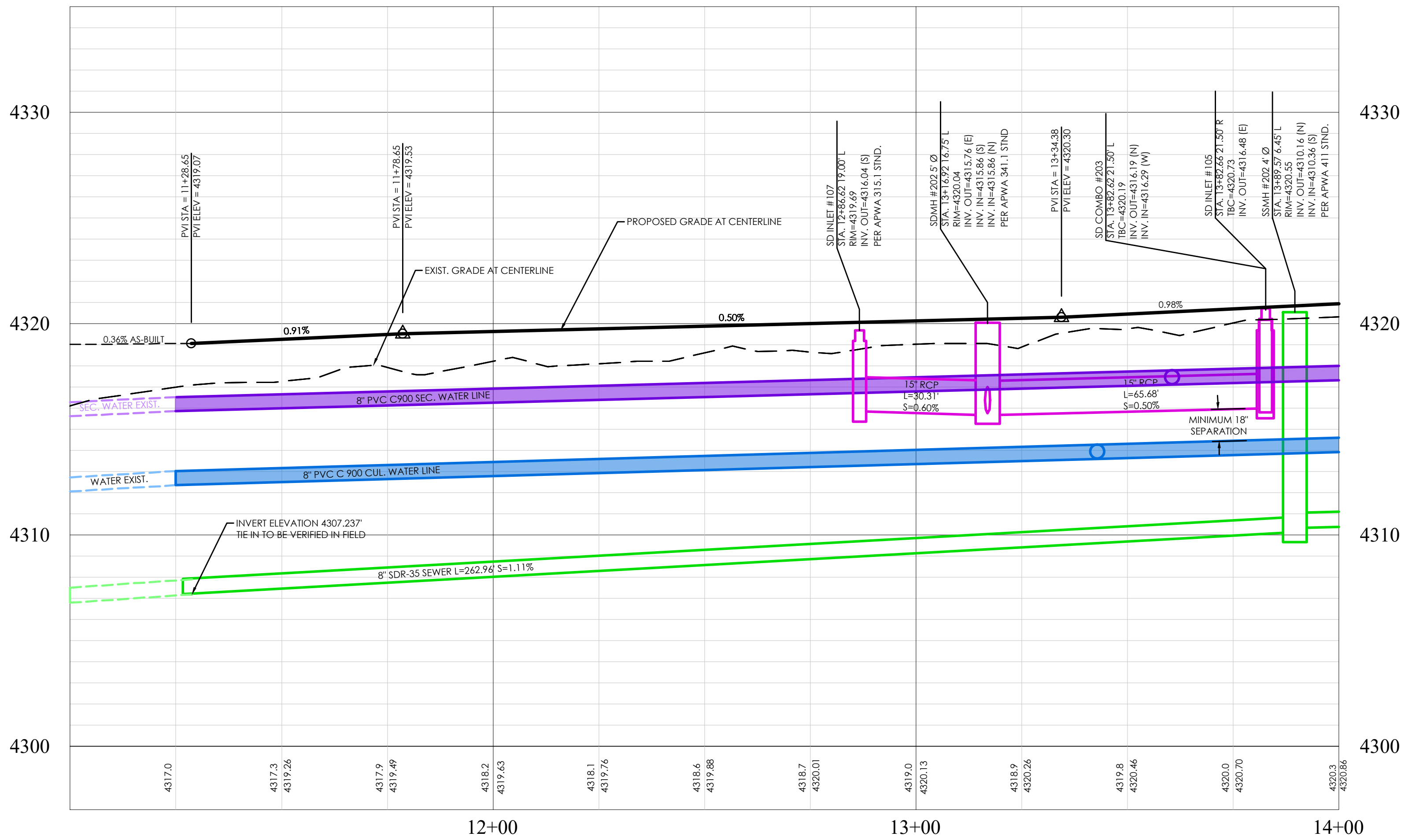
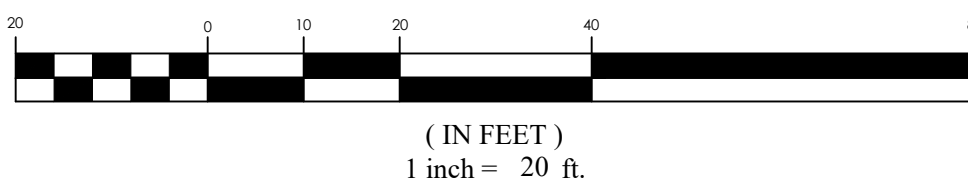
WITH CENTERLINE SLOPES THAT ARE DESIGNED AT MINIMUM 0.5% CONTRACTOR TO VERIFY THAT CURB & GUTTER, FLOW LINE DOES NOT SLOPE LESS THAN 0.5%.

**BENCHMARK**

NORTHEAST CORNER OF SECTION 05  
TOWNSHIP 03 SOUTH, RANGE 05 WEST  
SALT LAKE BASE AND MERIDIAN  
ELEV: 4309.08'  
DATUM: NAVD88



**GRAPHIC SCALE**



McCONAUGHEY DRIVE PROFILE

MATTHEWS MEADOWS SUBDIVISION PHASE 2  
GRANTSVILLE, UT  
McCONAUGHEY DRIVE

REVISION BLOCK	
#	DESCRIPTION
1	
2	
3	
4	
5	
6	

**McCONAUGHEY DRIVE**

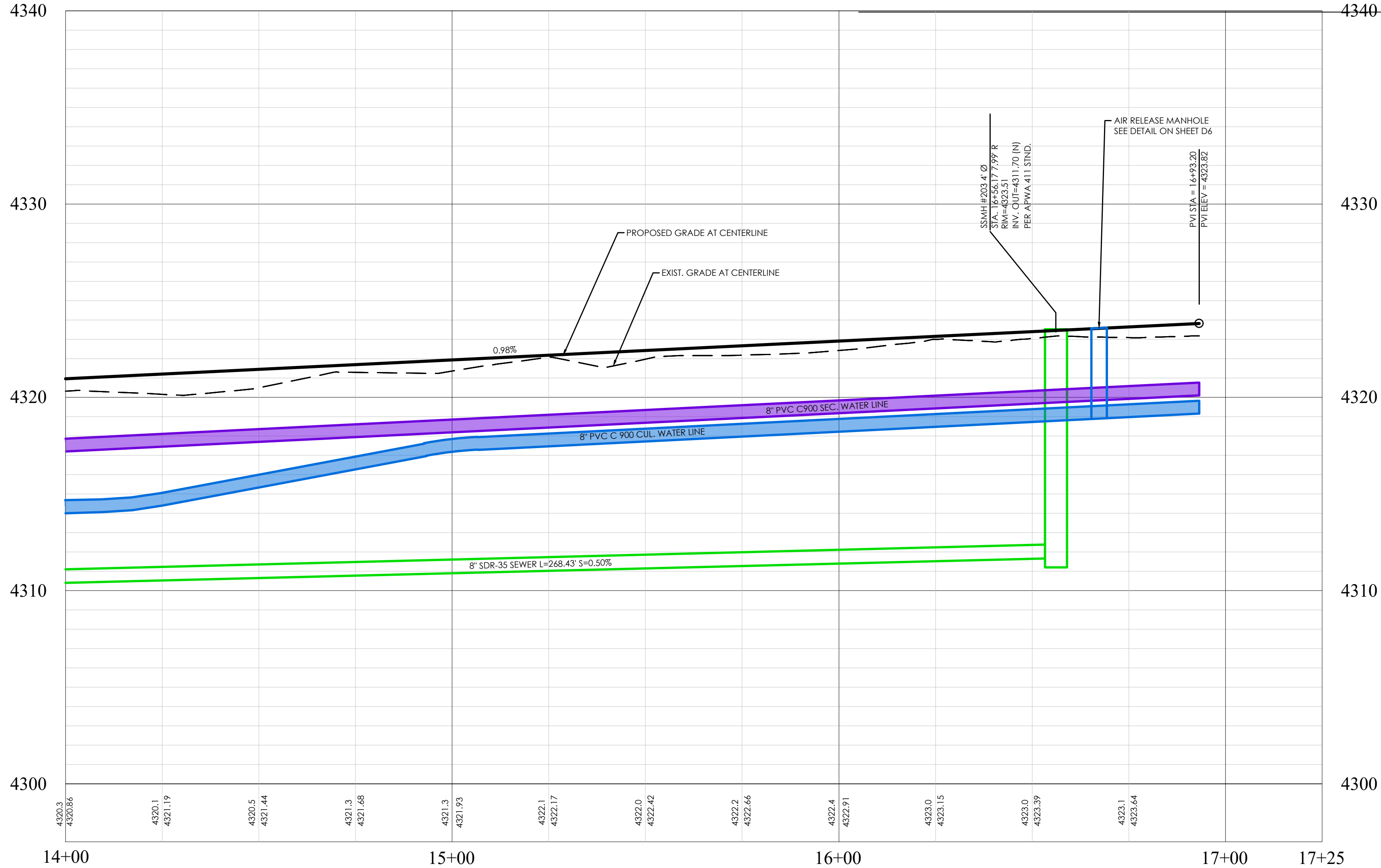
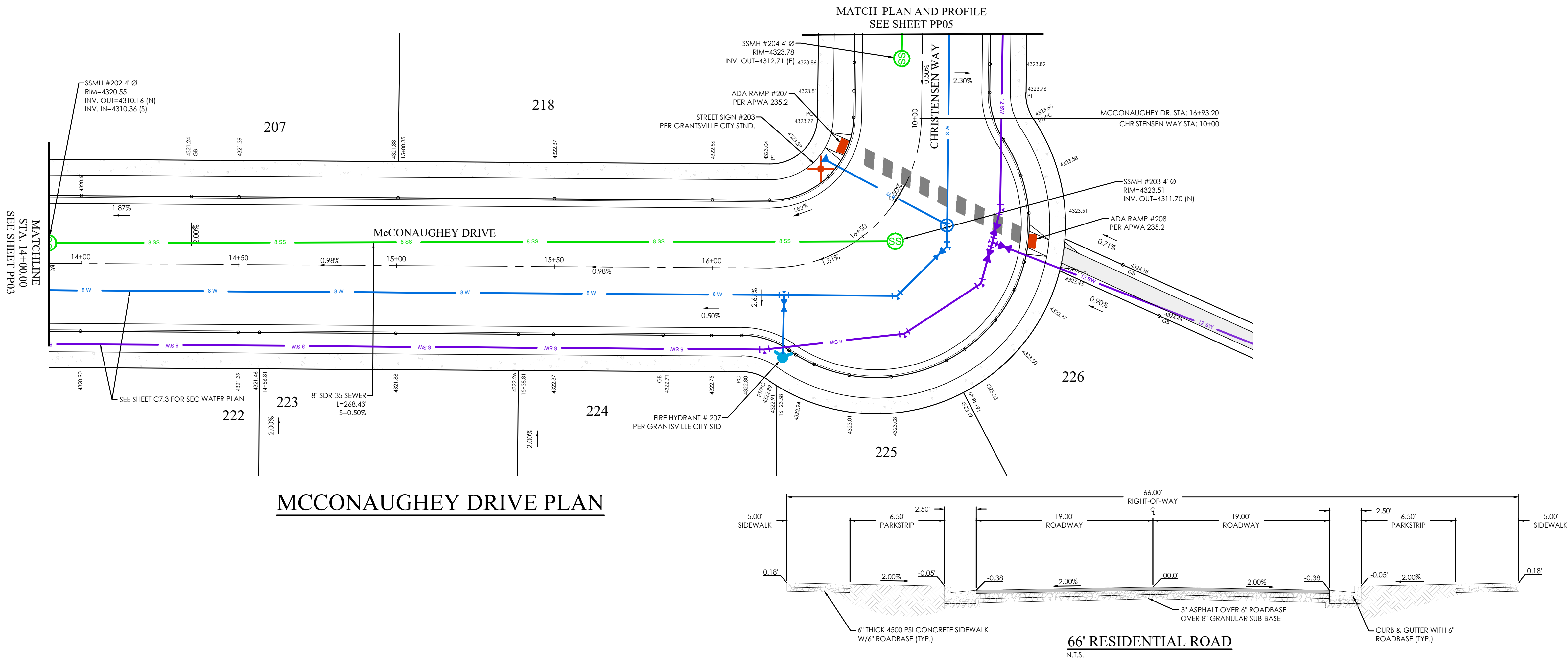
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Sheet: PP03

Drawn: LCB  
Job #: 23-0012

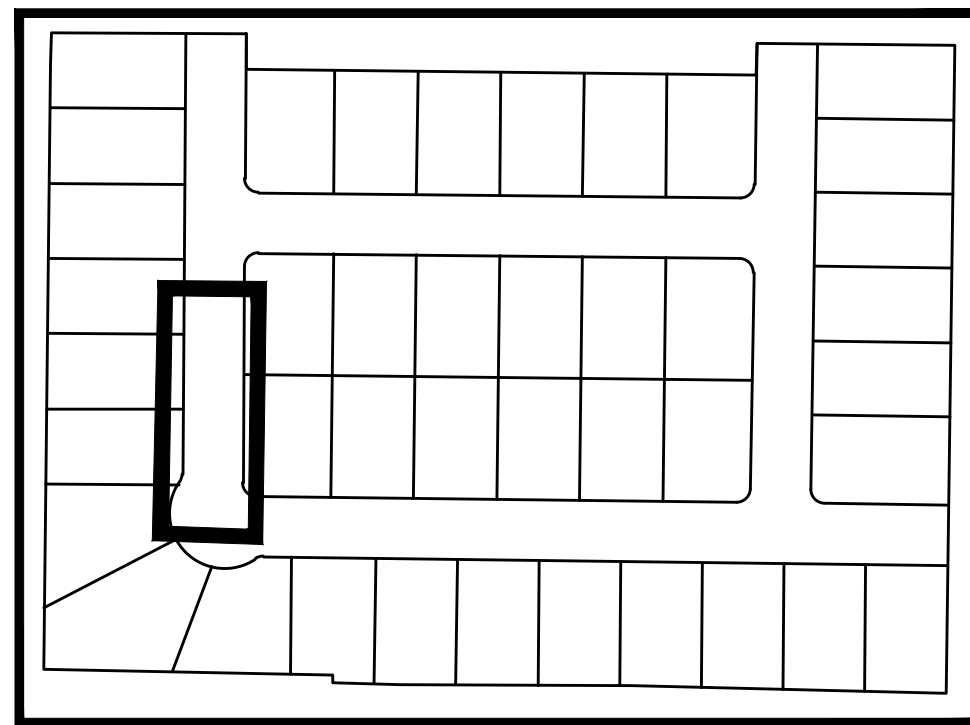
**FFOCUS**  
ENGINEERING AND SURVEYING, LLC  
6949 S. HIGH TECH DRIVE, SUITE 200  
MIDVALE, UTAH 84047 PH: (801) 352-0075  
www.ffcusuh.com





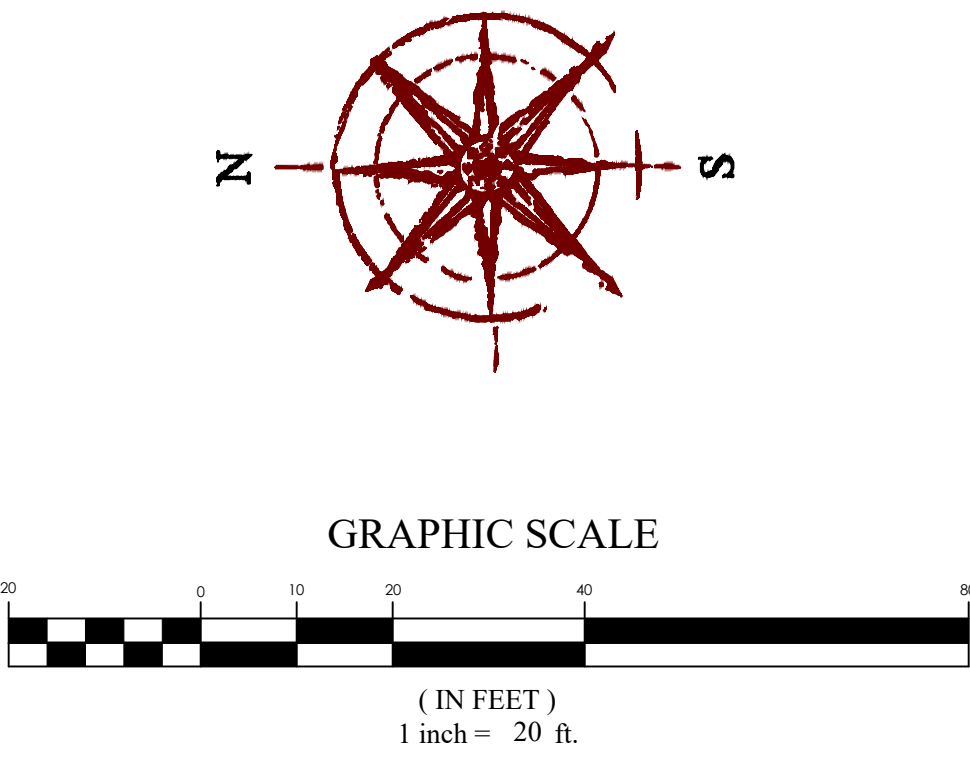


- LEGEND
- BOUNDARY
  - CENTERLINE
  - LOT LINE
  - EASEMENT
  - XX SD XX" STORM DRAIN
  - XX SS XX" SANITARY SEWER
  - XX W XX" CULINARY WATER
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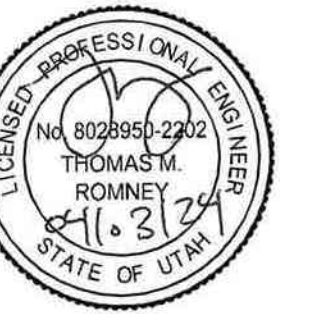
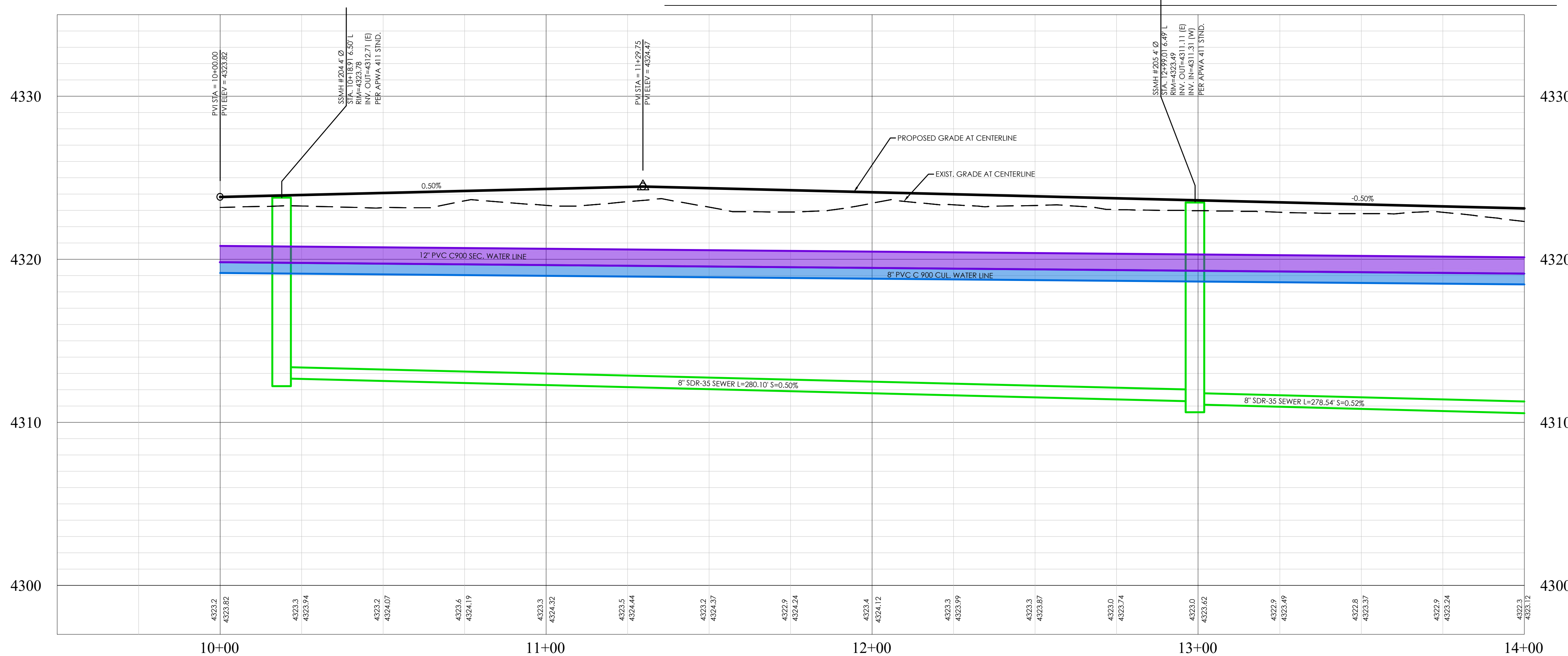
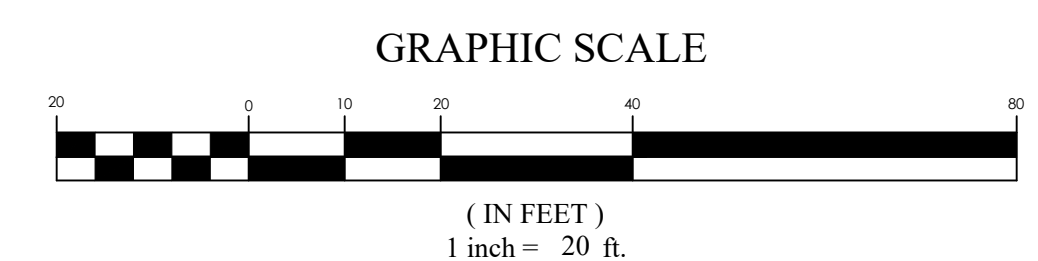
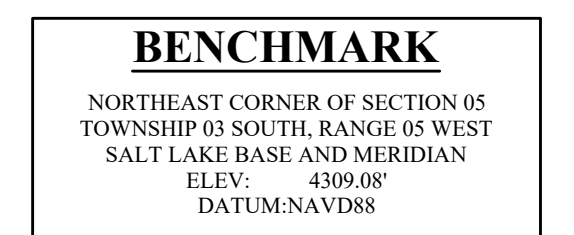
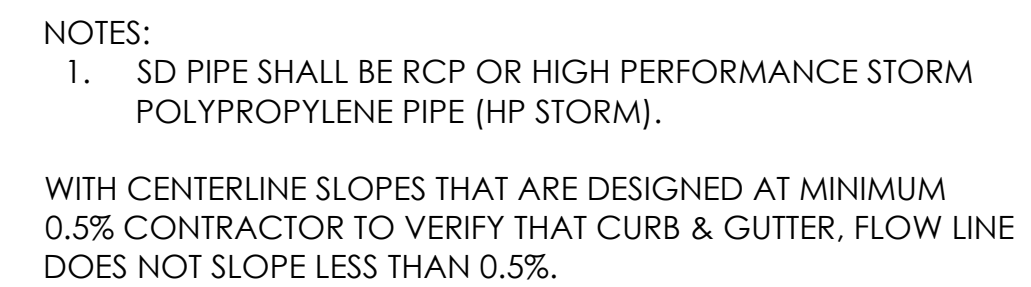
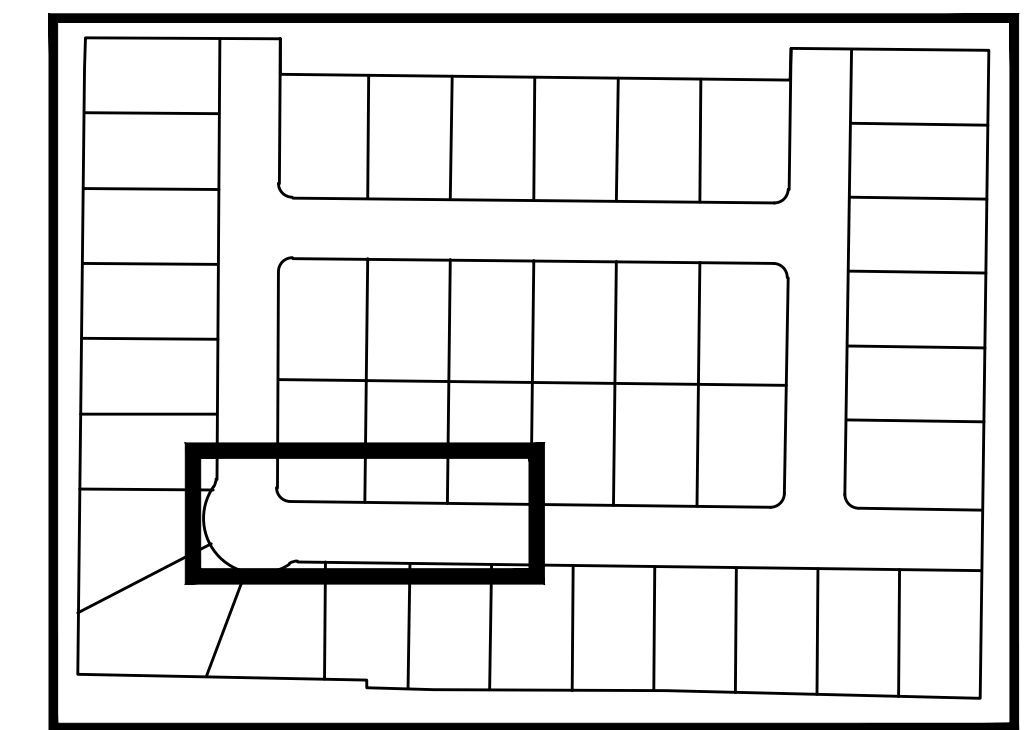
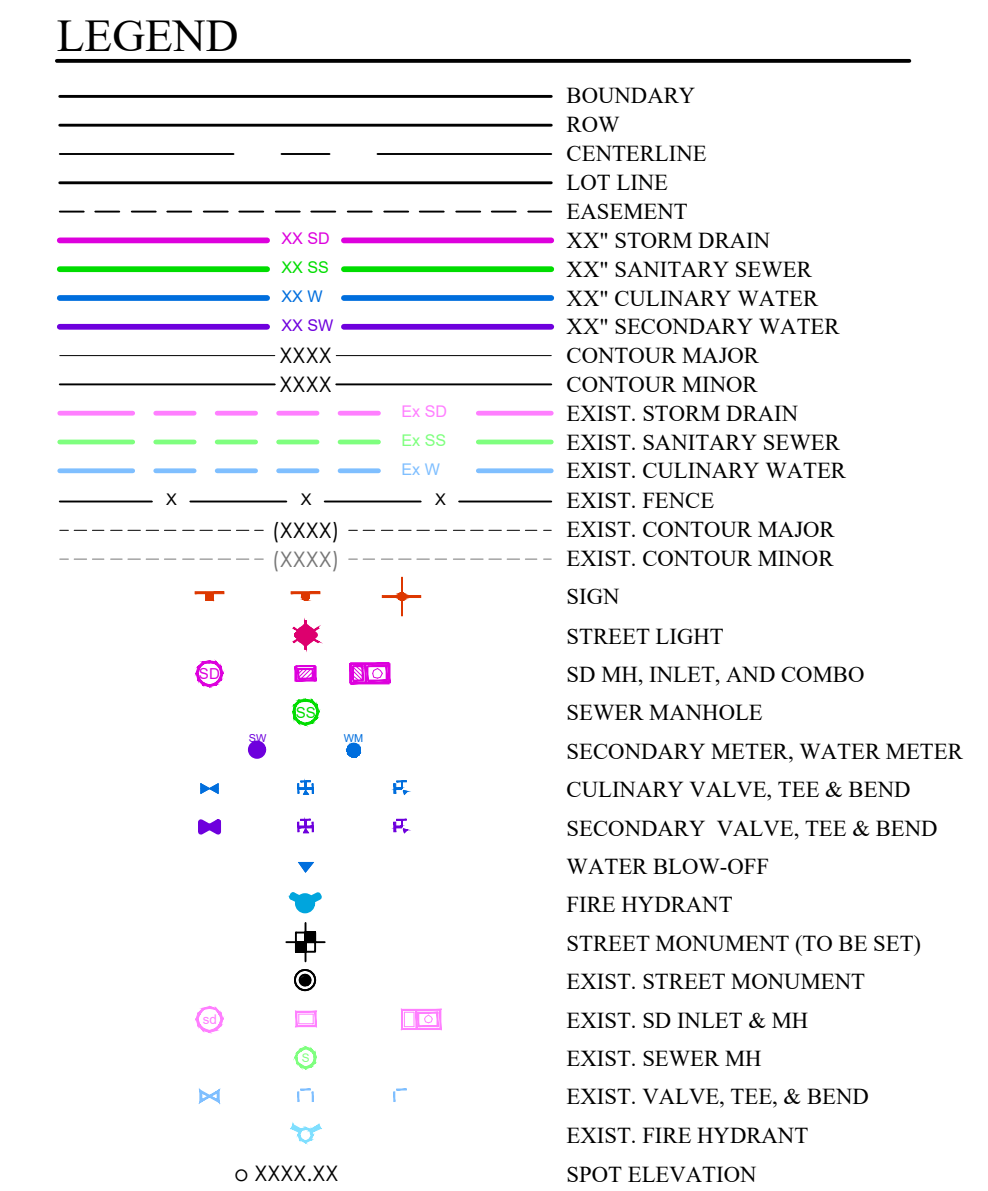
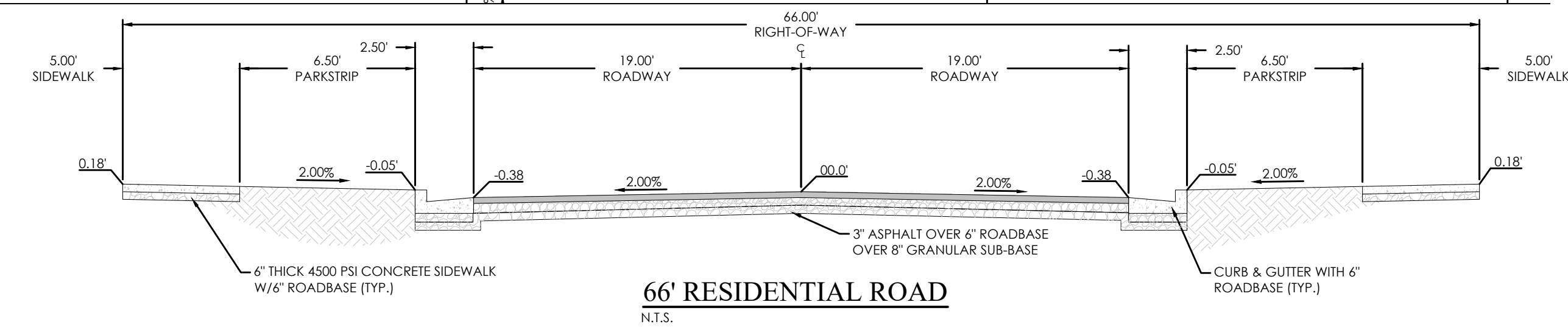
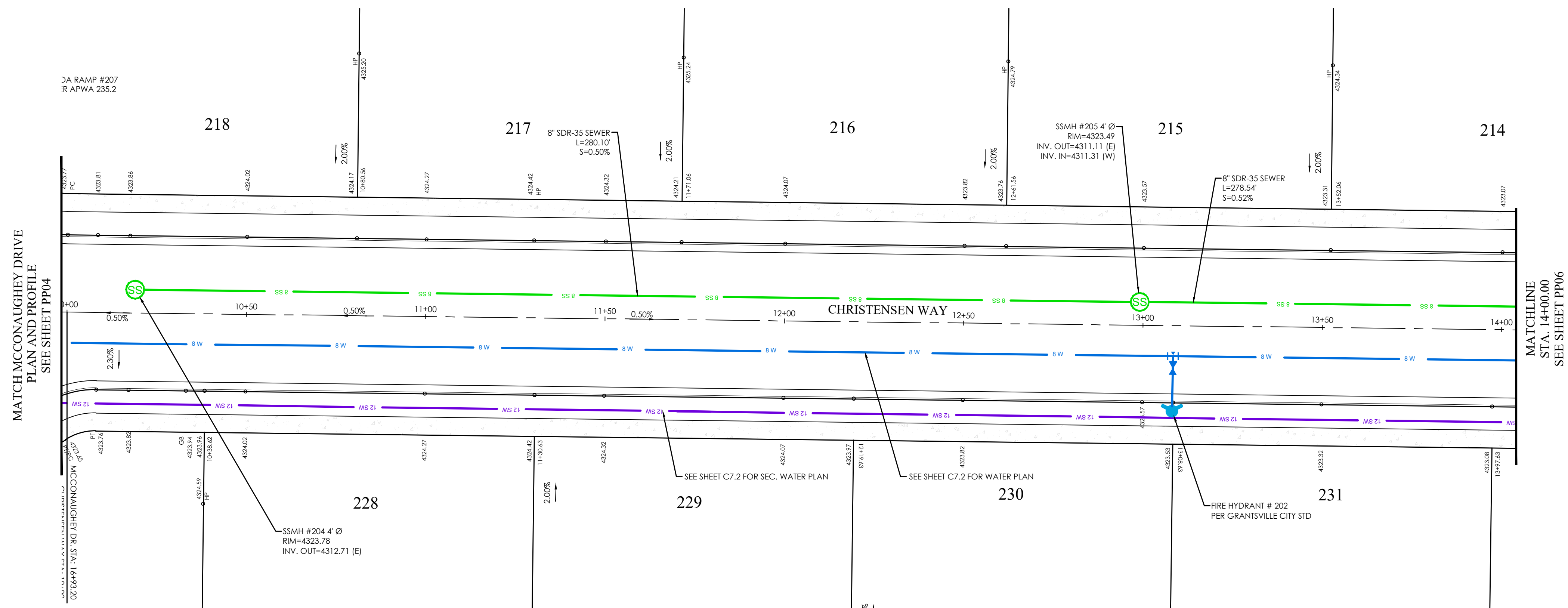
**BENCHMARK**  
NORTHEAST CORNER OF SECTION 05  
TOWNSHIP 03 SOUTH, RANGE 05 WEST  
SALT LAKE BASE AND MERIDIAN  
ELEV: 4309.08'  
DATUM: NAVD88



MATTHEWS MEADOWS SUBDIVISION PHASE 2  
GRANTSVILLE, UT  
MCCONAUGHEY DRIVE

REVISION BLOCK	
#	DESCRIPTION
1	
2	
3	
4	
5	
6	





GRANTSVILLE, UT  
CHRISTENSEN WAY

REVISION BLOCK		DESCRIPTION
#	DATE	
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2	04-01-00	
3	04-01-00	
4	04-01-00	
5	04-01-00	
6	04-01-00	

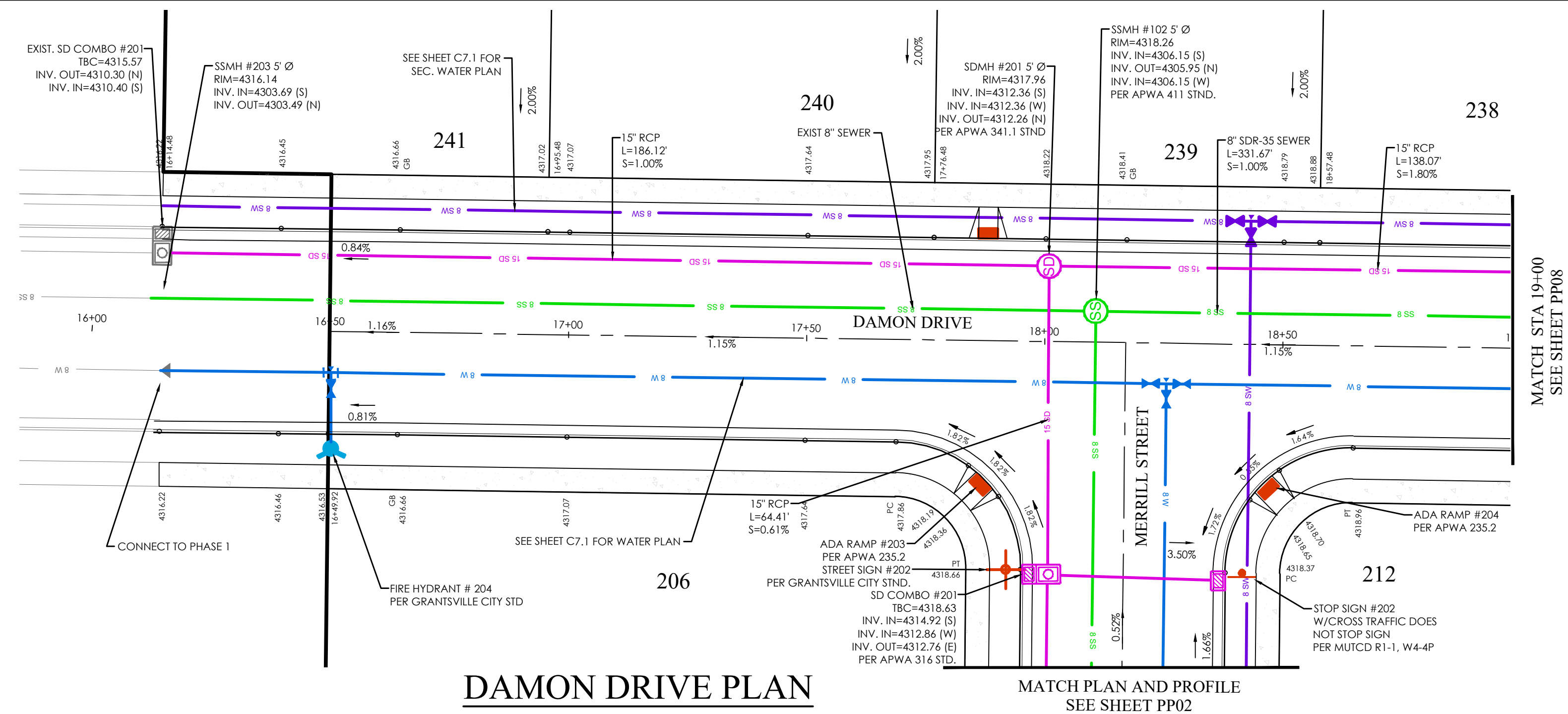
CHRISTENSEN  
WAY

Scale: 1"=20'	Drawn: LCB
Date: 04/03/24	Job #: 23-0012
Sheet:	
PP05	

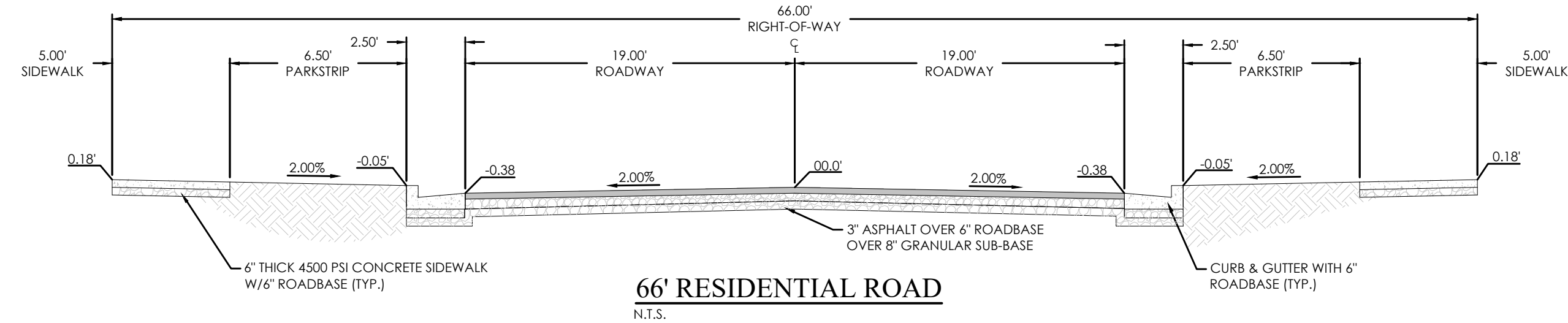






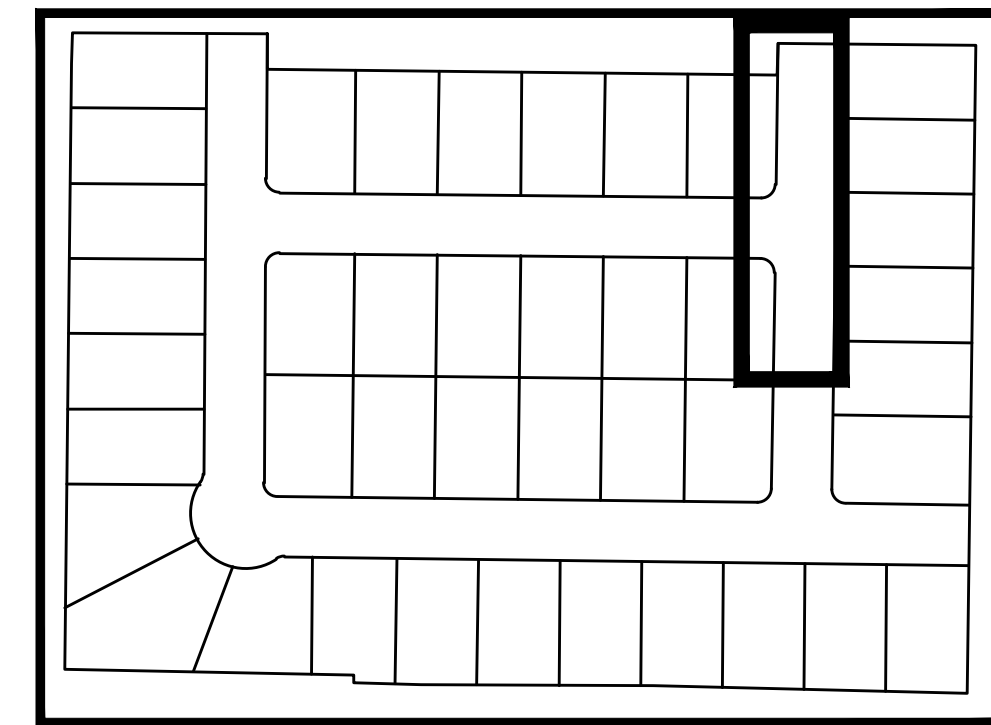


DAMON DRIVE PLAN



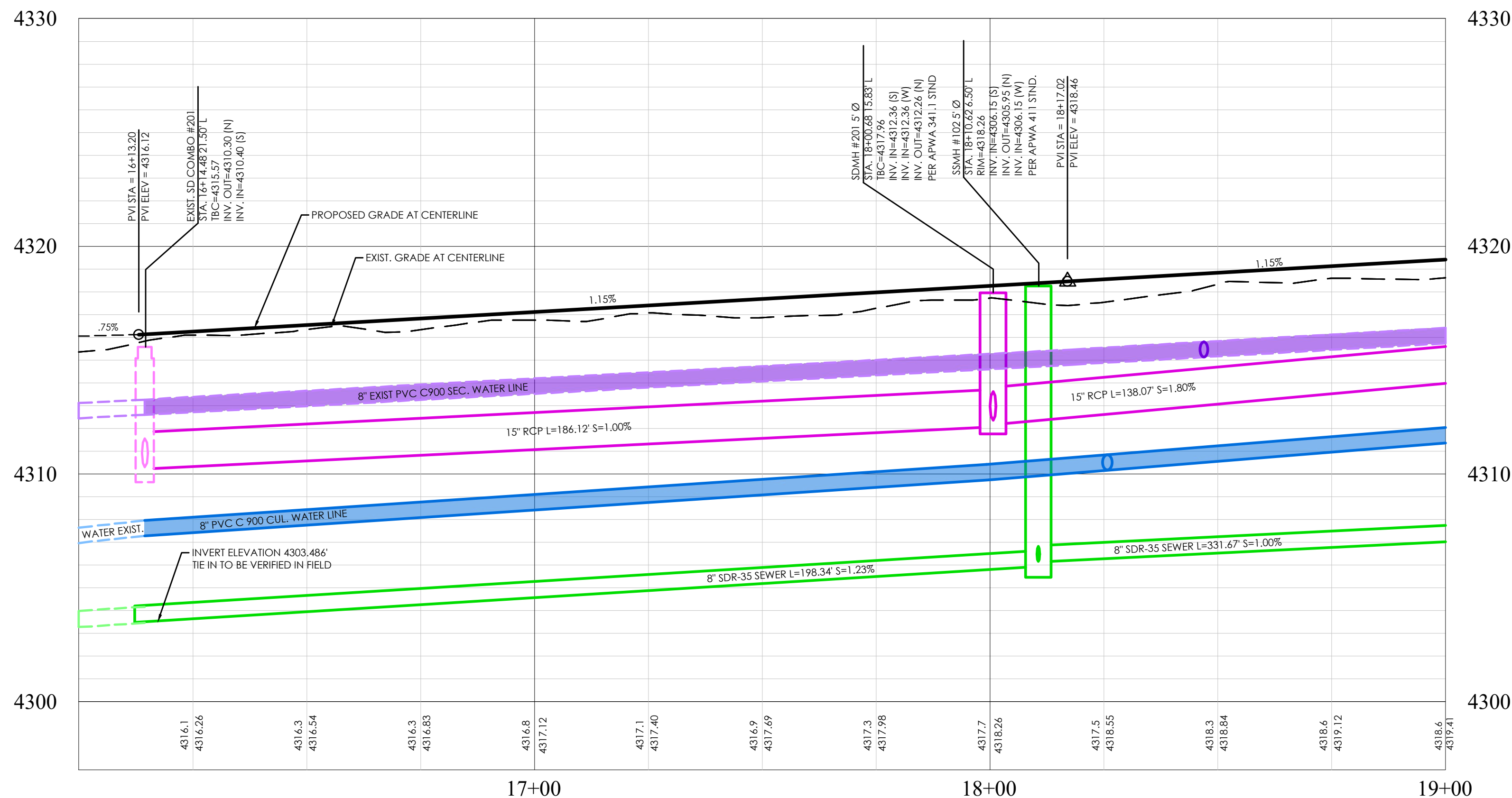
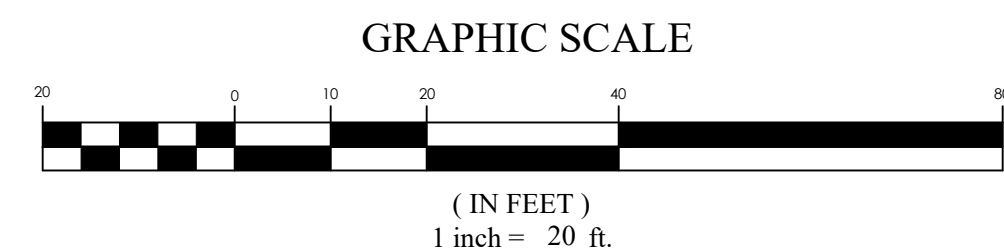
LEGEND

BOUNDARY	XX SD	XX" STORM DRAIN
CENTERLINE	XX SS	XX" SANITARY SEWER
LOT LINE	XX W	XX" CULINARY WATER
EASEMENT	XXXX	XX" SECONDARY WATER
CONTOUR MAJOR	XXXX	CONTOUR MAJOR
CONTOUR MINOR	XXXX	CONTOUR MINOR
EXIST. STORM DRAIN	Ex SD	EXIST. STORM DRAIN
EXIST. SANITARY SEWER	Ex SS	EXIST. SANITARY SEWER
EXIST. CULINARY WATER	Ex W	EXIST. CULINARY WATER
EXIST. FENCE	XXXX	EXIST. FENCE
EXIST. CONTOUR MAJOR	XXXX	EXIST. CONTOUR MAJOR
EXIST. CONTOUR MINOR	XXXX	EXIST. CONTOUR MINOR
SIGN		SIGN
STREET LIGHT		STREET LIGHT
SD MH, INLET, AND COMBO		SD MH, INLET, AND COMBO
SEWER MANHOLE		SEWER MANHOLE
SECONDARY METER, WATER METER		SECONDARY METER, WATER METER
CULINARY VALVE, TEE & BEND		CULINARY VALVE, TEE & BEND
WATER BLOW-OFF		WATER BLOW-OFF
SECONDARY VALVE, TEE & BEND		SECONDARY VALVE, TEE & BEND
FIRE HYDRANT		FIRE HYDRANT
STREET MONUMENT (TO BE SET)		STREET MONUMENT (TO BE SET)
EXIST. STREET MONUMENT		EXIST. STREET MONUMENT
EXIST. SD INLET & MH		EXIST. SD INLET & MH
EXIST. SEWER MH		EXIST. SEWER MH
EXIST. VALVE, TEE, & BEND		EXIST. VALVE, TEE, & BEND
EXIST. FIRE HYDRANT		EXIST. FIRE HYDRANT
SPOT ELEVATION		SPOT ELEVATION

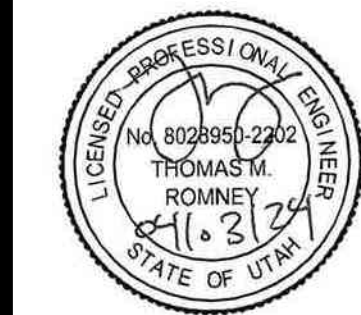


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- WITH CENTERLINE SLOPES THAT ARE DESIGNED AT MINIMUM 0.5% CONTRACTOR TO VERIFY THAT CURB & GUTTER, FLOW LINE DOES NOT SLOPE LESS THAN 0.5%.

**BENCHMARK**  
NORTHEAST CORNER OF SECTION 05  
TOWNSHIP 03 SOUTH, RANGE 05 WEST  
SALT LAKE BASE AND MERIDIAN  
ELEV: 4309.08'  
DATUM: NAVD88



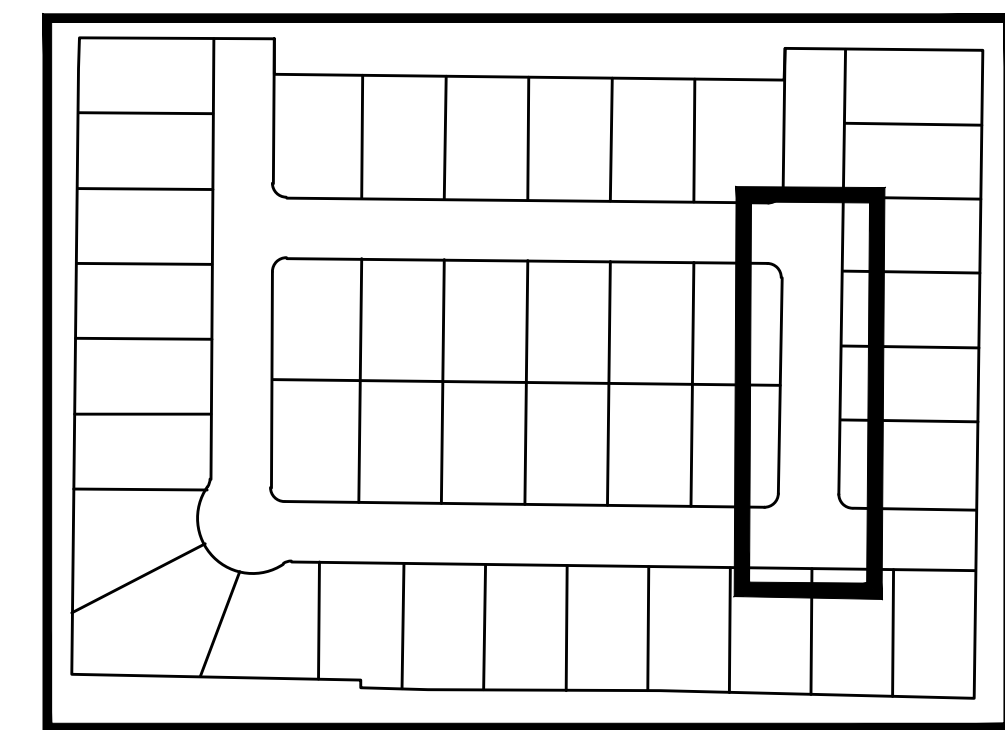
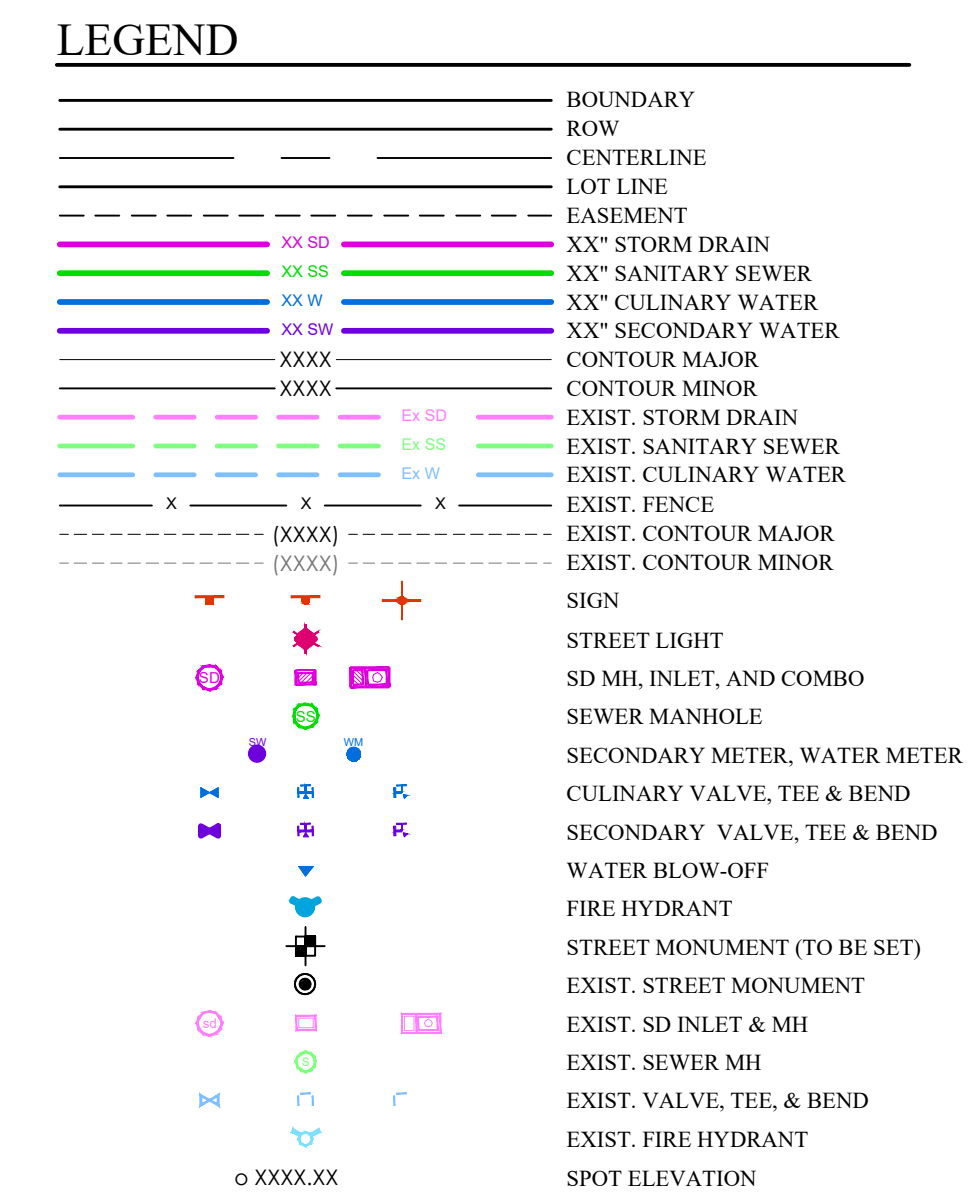
DAMON DRIVE PROFILE



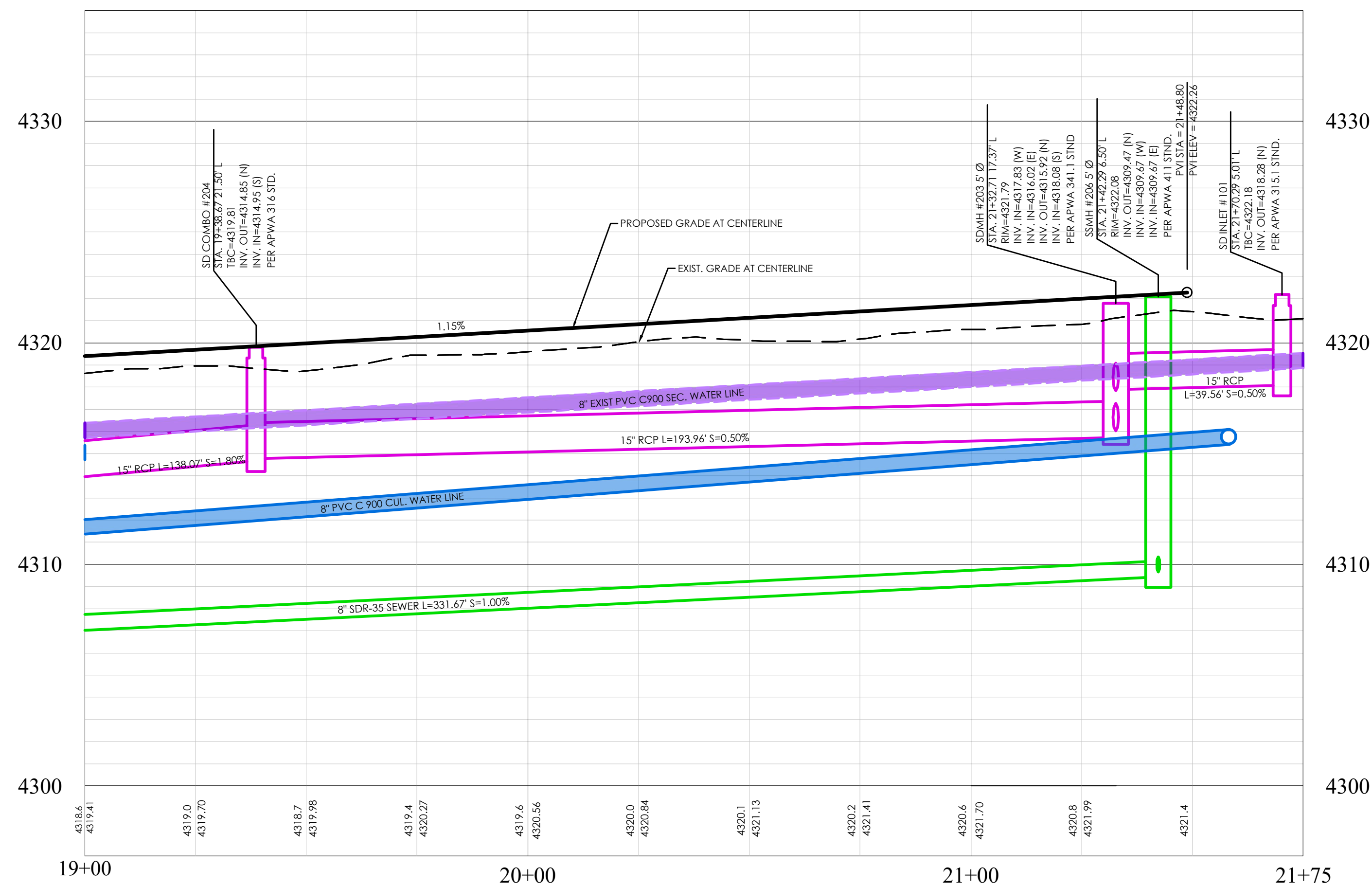
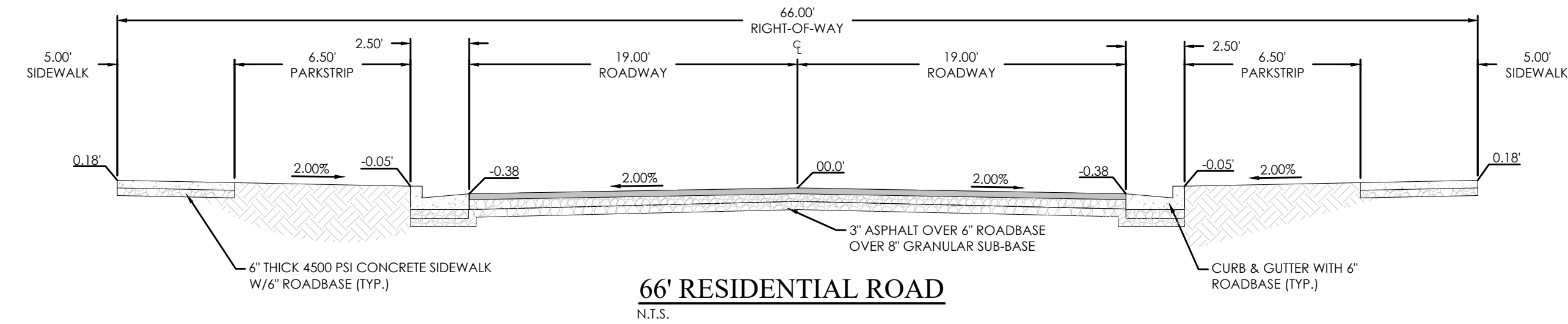
REVISION BLOCK		DESCRIPTION
#	DATE	
1		
2		
3		
4		
5		
6		







KEY MAP  
N.T.S



## DAMON DRIVE PROFILE

NOTES:

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WITH CENTERLINE SLOPES THAT ARE DESIGNED AT MINIMUM 0.5% CONTRACTOR TO VERIFY THAT CURB & GUTTER, FLOW LINE DOES NOT SLOPE LESS THAN 0.5%.

## BENCHMARK

NORTHEAST CORNER OF SECTION 05  
TOWNSHIP 03 SOUTH, RANGE 05 WEST  
SALT LAKE BASE AND MERIDIAN  
ELEV: 4309.08'  
DATUM:NAVD88



GRAPHIC SCALE

( IN FEET )  
1 inch = 20 ft.



Know what's **below**.  
Call 811 before you dig.

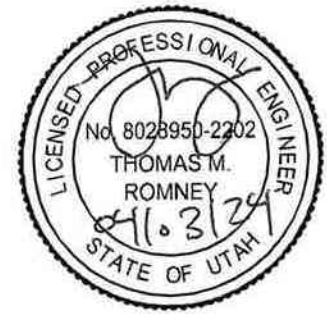
MATTHEWS MEADOWS SUBDIVISION PHASE 2  
GRANTSVILLE, UT  
DAMON DRIVE

REVISION BLOCK		
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2	04-01-02	
3	04-01-02	
4	04-01-02	
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DAMON  
DRIVE

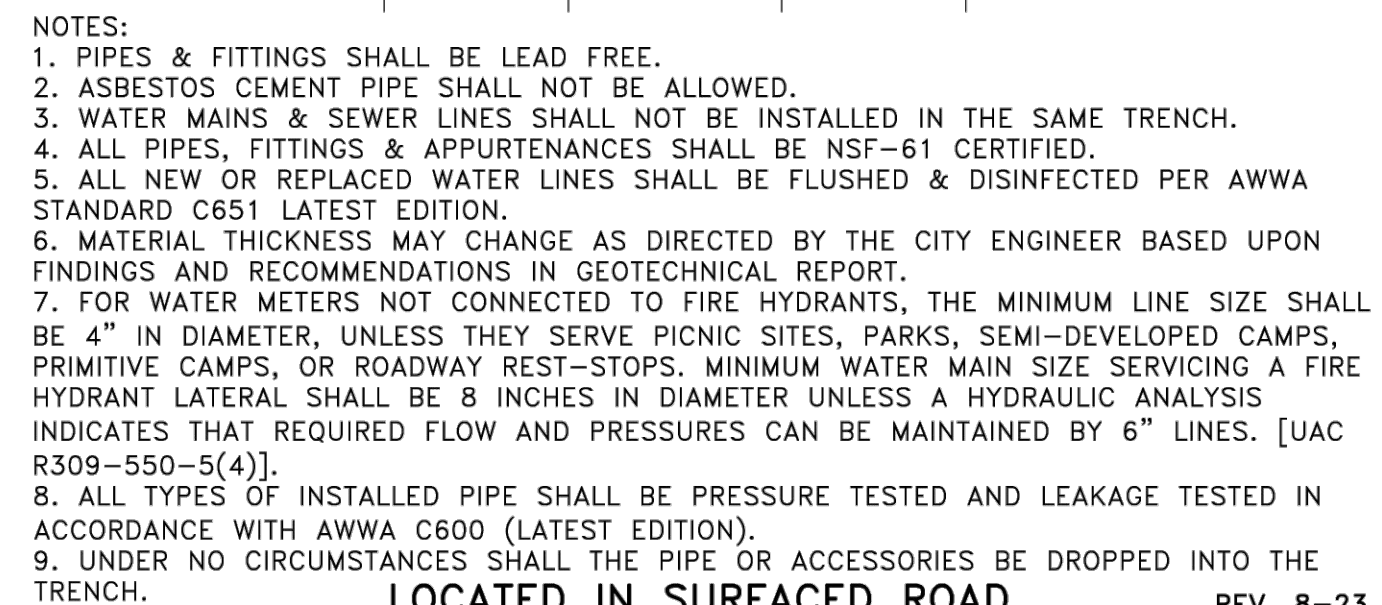
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Date: 04/03/24	Job #: 23-0012
Sheet:	

PP08

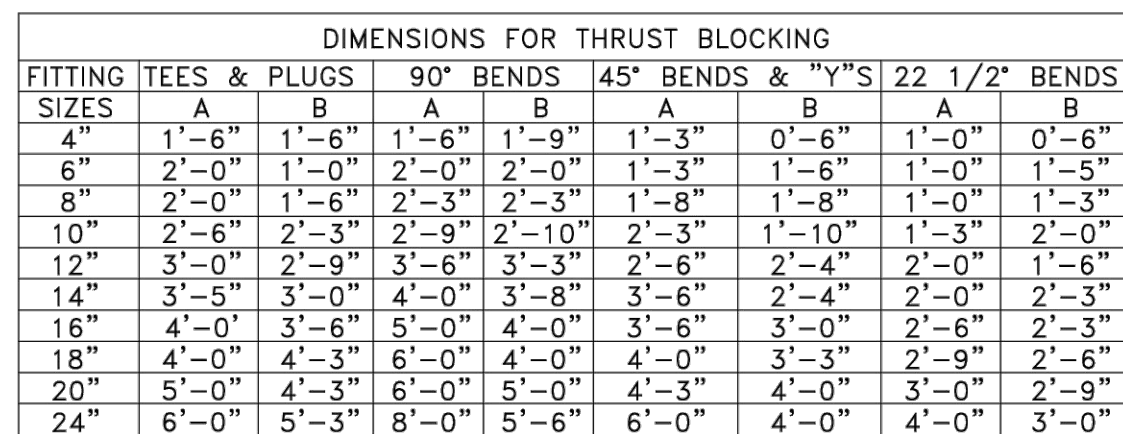




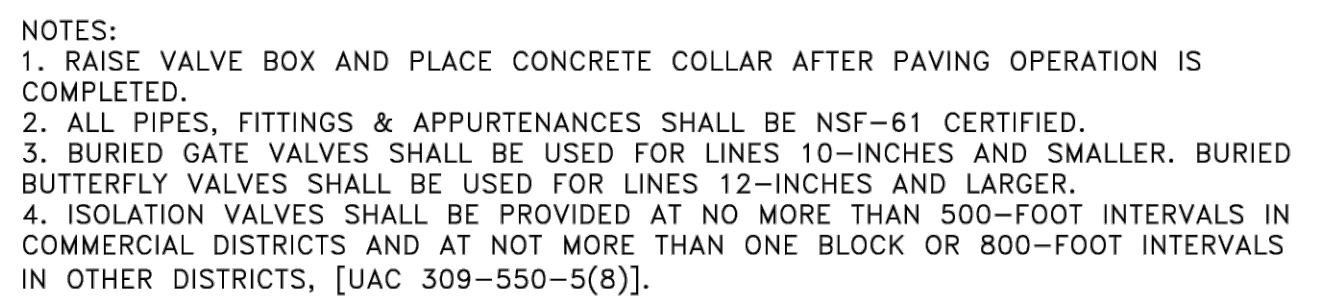
1. ALL SURFACE CONCRETE TO BE 4500 PSI.
2. SIDEWALK SHALL BE 6" THICK ON 6" OF COMPACTED ROADBASE



## REV. 8-23

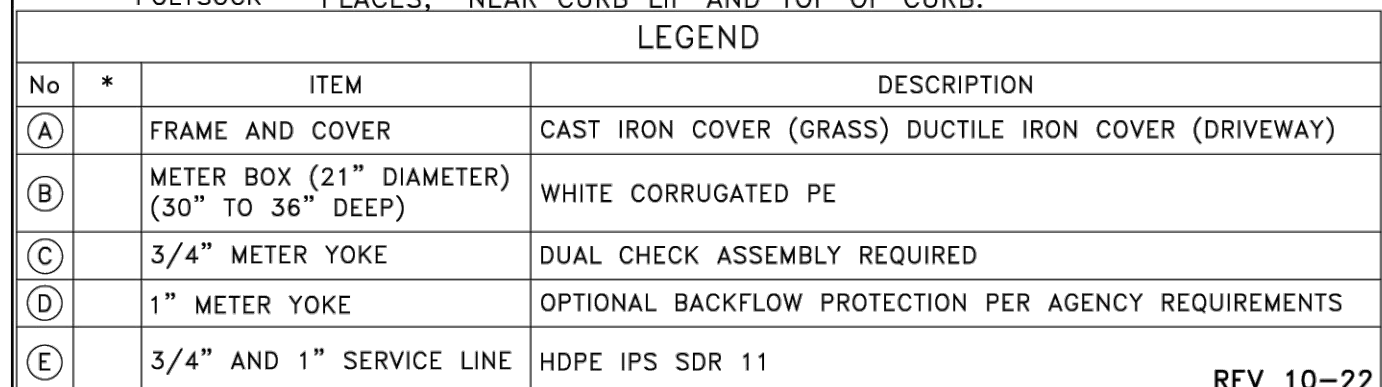


1. THIS TABLE IS BASED ON 200 P.S.I. MAIN PRESSURE AND 2000 P.S.F. SOIL BEARING PRESSURE. ADJUST BEARING AREAS IN ACCORDANCE WITH SOIL CONDITIONS AND PRESSURES ENCOUNTERED.
2. USE POLYETHYLENE ENCASEMENT BETWEEN CONCRETE AND PIPE.
3. REFER TO CONCRETE STANDARD SPECIFICATIONS.
4. THE "THRUST BLOCKING DETAILS" IN NO WAY LIMITS THE LOCATION OR SIZE OF ADDITIONAL BLOCKING WHEN SO WARRANTED OR REQUIRED BY THE ENGINEER.
5. THRUST BLOCKS NEED TO BE INSPECTED BY CITY PRIOR TO BACKFILL.

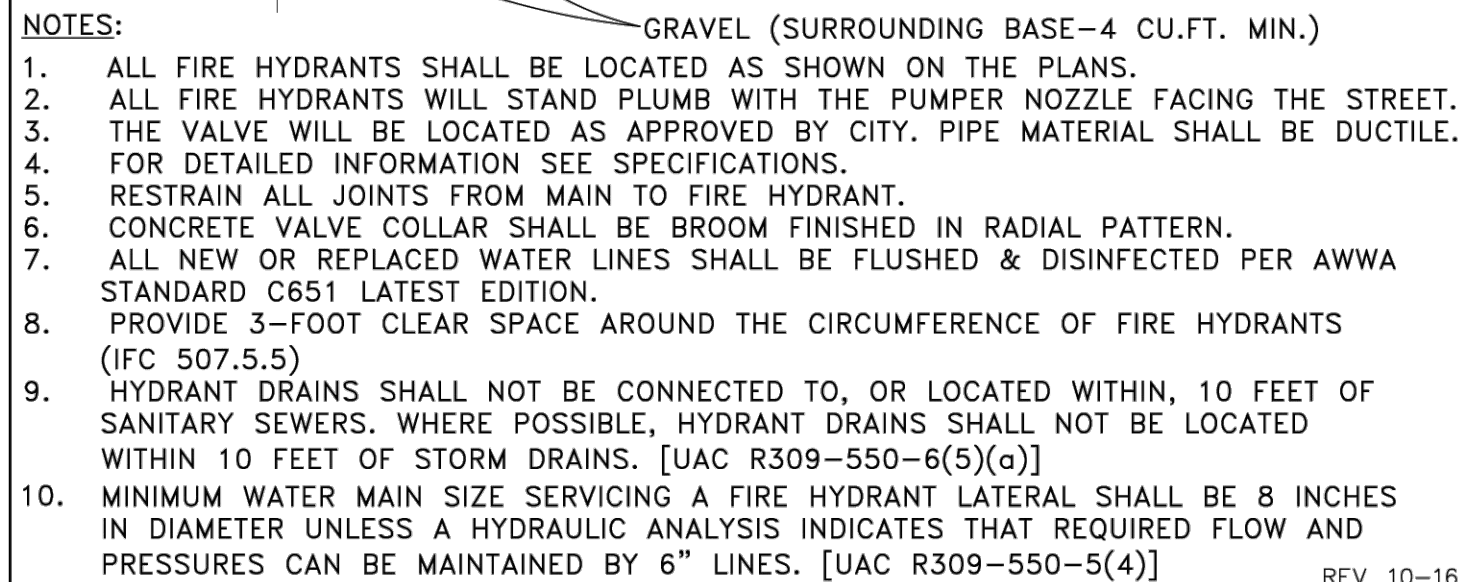


REV. 01-22

## REV. 01-22



## REV 10-22



## RFV 10-16



### TABLE OF DIMENSIONS

		RUNNING SLOPE (%)	CROSS SLOPE (%)
		MAXIMUM	MAXIMUM
TURNING SPACE (T)			2
CURB RAMP (R)		8.33	2 (c)
BLENDED TRANSITION (B)		5	2 (c)
CLEAR SPACE (C)		5	2 (c)
SIDEWALK (S)		STREET GRADE	2
FLARE (F)		10	--

- (a) RUNNING SLOPE IS IN THE DIRECTION OF PEDESTRIAN TRAVEL. RUNNING SLOPE OF FLARE IS PARALLEL TO BACK OF CURB
- (b) CROSS SLOPE IS PERPENDICULAR TO DIRECTION OF PEDESTRIAN TRAVEL

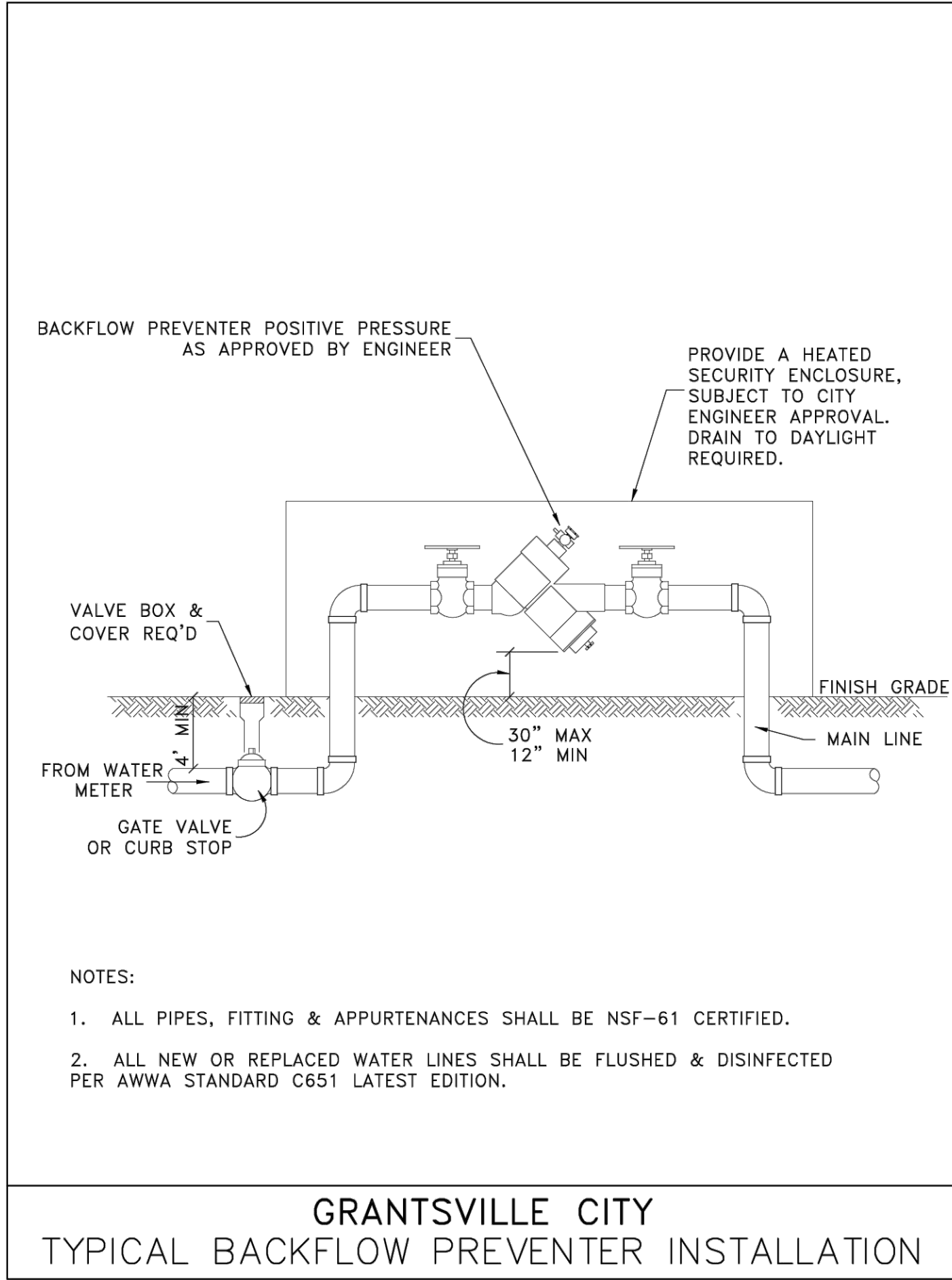
### SLOPE TABLE

Plan  
**236.1**  
September 2011

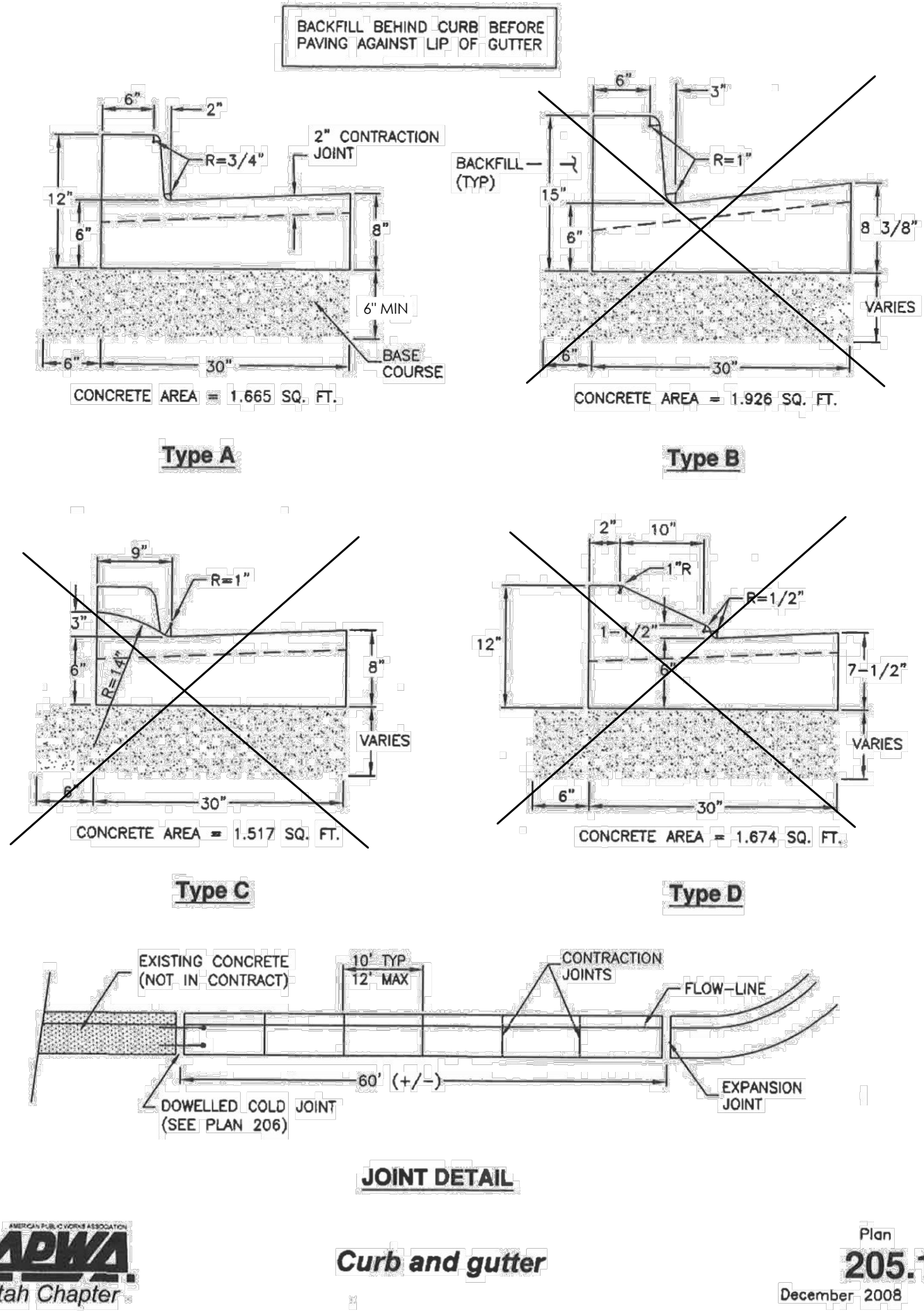
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Date:	04/03/24	Job #:	23-0012
Sheet:			

D1



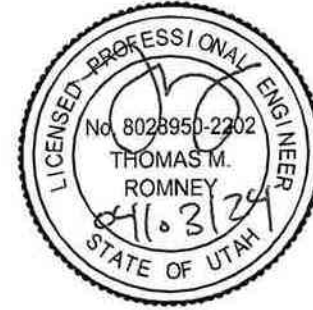


- Curb and gutter**
- GENERAL**
    - Variance from specified dimensions and slopes must be acceptable to the ENGINEER. System configuration may be changed at ENGINEER's discretion.
    - Additional requirements are specified in APWA Section 32 16 13.
  - PRODUCTS**
    - Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel as a base course without ENGINEER's permission.
    - Expansion Joint Filler: 1/2-inch thick type F1 full depth, APWA Section 32 13 73.
    - Concrete: Class 4500 APWA Section 03 30 04. If necessary, provide concrete that achieves design strength in less than 7 days. Use caution; however, as concrete crazing (spider cracks) may develop if air temperature exceeds 90 degrees F.
    - Concrete Curing Agent: Clear membrane forming compound with fugitive dye (Type ID Class A), APWA Section 03 39 00.
  - EXECUTION**
    - Base Course Placement: APWA Section 32 05 10. Thickness is 6-inches if flow-line grade is 0.5 percent (s=0.005) or greater. If slope is less, provide 8-inches. Maximum lift thickness before compaction is 8-inches when using riding equipment or 6-inches when using hand held equipment. Compaction is 95 percent or greater relative to a modified proctor density, APWA Section 31 23 26.
    - Concrete Placement: APWA Section 03 30 10.
      - Install expansion joints vertical, full depth, with top of filler set flush with concrete surface. Install at the start or end of a street intersection curb return. Expansion joints are not required in concrete placement using slip-form construction.
      - Install contraction joints vertical, 1/8-inch wide or 1/4 slab thickness if the slab is greater than 8-inches thick. Match joint location in adjacent Portland-cement concrete roadway pavement.
      - Provide 1/2-inch radius edges. Apply a broom finish. Apply a curing agent.
    - Protection and Repair: Protect concrete from deicing chemicals during cure. Repair construction that does not drain. If necessary, fill flow-line with water to verify.



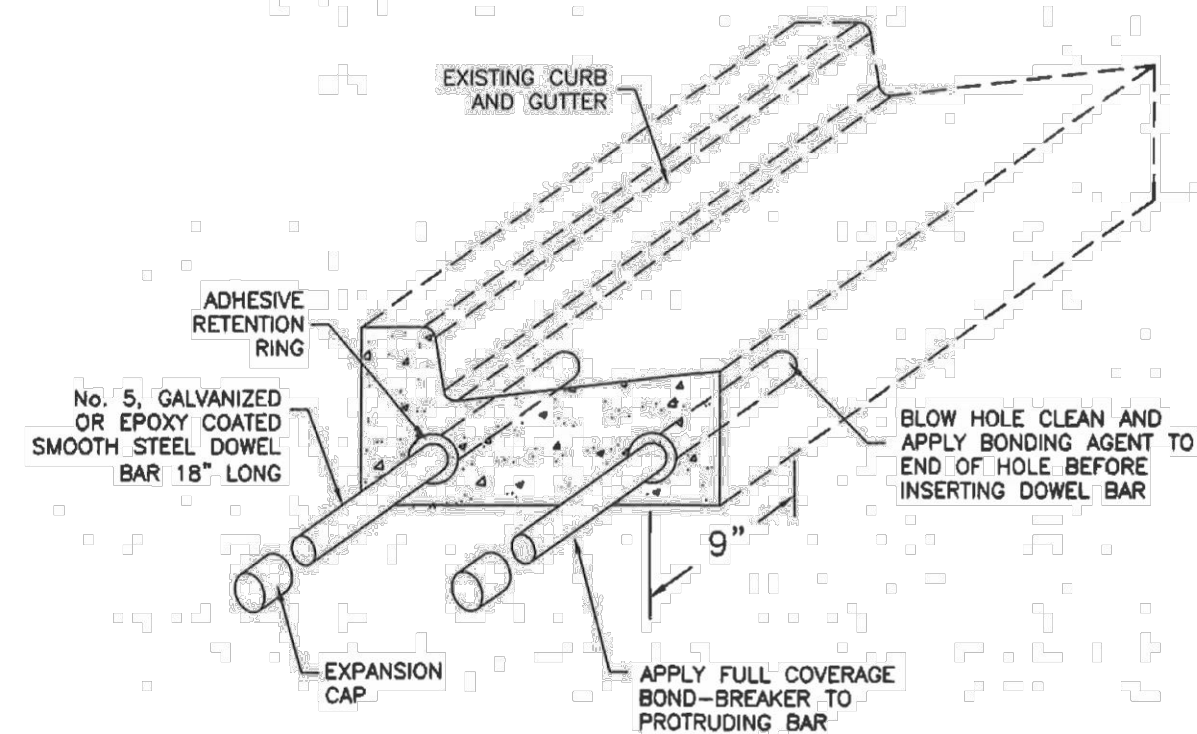
NOTE:

- ALL SURFACE CONCRETE TO BE 4500 PSI.



MATTHEWS MEADOWS SUBDIVISION PHASE 2  
GRANTSVILLE, UT  
DETAILS

- Curb and gutter connection**
- GENERAL**
    - Connect new curb and gutter to existing curb and gutter that has not been placed by CONTRACTOR.
  - PRODUCTS**
    - Reinforcement: Galvanized or epoxy coated, 60 ksi yield grade steel, ASTM A615.
    - Adhesive: Epoxy adhesive grout, APWA Section 03 61 00.
    - Bond Breaker: Paraffin wax, lithium grease, or other semi-solid, inert lubricant.
    - Expansion Cap: Plastic, with bar movement allowance of 1/2-inch.
  - EXECUTION**
    - Ensure drill rigs (or jigs) are set at mid-depth of the gutter and horizontal to the surface. Make hole size large enough to account for dowel bar and adhesive.
    - Clean holes and dowel bars of dirt, dust and particles. Ensure coating on bars have no surface defects.
    - Place bonding agent in the back of each hole so adhesive flows out around each bar fully encasing it. DO NOT apply adhesive to end of the bar and then insert the bar into the hole.
    - Insert dowels with at least one full turning motion and if necessary, place a gROUT retention disk on the dowel after insertion to contain adhesive.
    - Apply complete coverage of bond-breaker on the protruding end of each dowel.
    - Install expansion caps on protruding dowel bar ends.



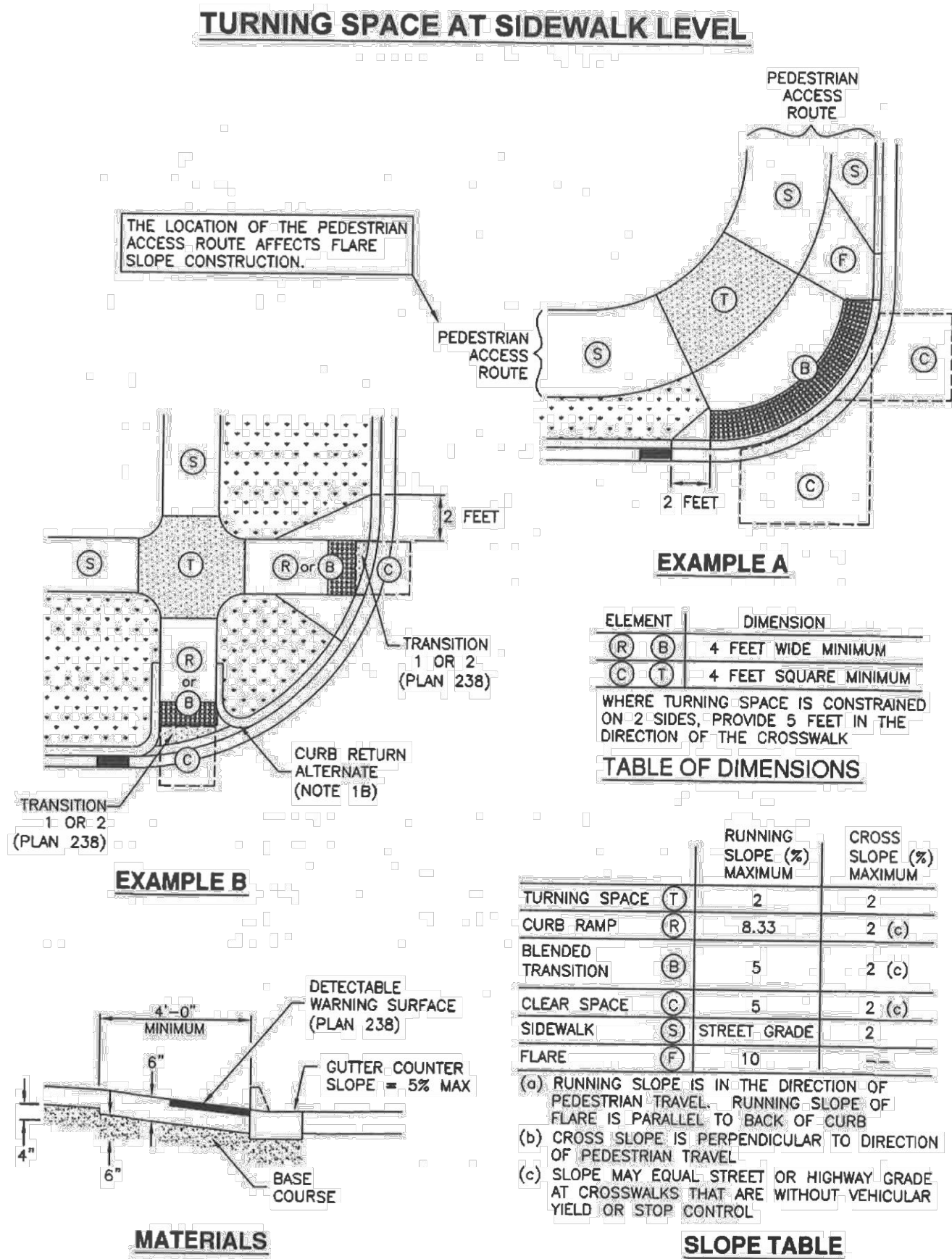
206



**Curb and gutter connection**

Plan **206**  
June 2009

- Corner curb cut assembly**
- GENERAL**
    - Where existing elements or spaces are altered to receive an assembly, slopes and dimensions shall comply with slopes and dimensions shown on the drawing, or to the maximum extent feasible permitted by the ENGINEER. Final configuration of the assembly may be different than shown. Where physical constraints (e.g. utility covers, poles, vaults, etc.) prevent compliance, a single diagonal curb cut assembly may serve both pedestrian street crossings.
    - Installation of flares or curb returns is ENGINEER's choice.
    - Definitions and supplemental requirements are specified in APWA Section 32 16 14.
  - PRODUCTS**
    - Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel as a base course without ENGINEER's permission.
    - Expansion Joint Filler: 1/2-inch thick type F1 full depth, APWA Section 32 13 73.
    - Detectable Warning Surface: Paver, ribbed composite panel, or tile. Provide a color that contrasts with adjacent walking surface, either light-on-dark or dark-on-light. ENGINEER to select type and color unless indicated elsewhere.
    - Concrete: Class 4500 APWA Section 03 30 04.
    - Concrete Curing Agent: Clear membrane forming compound with fugitive dye (Type ID Class A), APWA Section 03 39 00.
  - EXECUTION**
    - Base Course Placement: APWA Section 32 05 10. Maximum lift thickness before compaction is 8-inches when using riding equipment or 6-inches when using hand held equipment. Compaction is 95 percent or greater relative to a modified proctor density, APWA Section 31 23 26.
    - Curb Modifications:
      - The sloped surface created to accommodate a flare area shall be perpendicular to the back of curb.
      - No grade break shall exist between the flow-line and the foot of the curb ramp or blended transition. Length of the curb modification abutting the curb ramp or transition is 4 feet minimum for each crosswalk served.
    - Curb Ramp: Length not required to exceed 15 feet. Grade breaks are perpendicular to the direction of ramp run and are not permitted on ramp or turning space surface. Sides are parallel to each other and perpendicular to the ends. At the bottom grade break it may be necessary to install a transition zone, (APWA Plan 238).
    - Concrete Placement: APWA Section 03 30 10.
      - Maximum length to width ratio for rectangular panel joints is 1.5 to 1. Joint spacing measured in feet not to exceed twice slab thickness measured in inches or a maximum of 15 feet.
      - Install expansion joints vertical, full depth, with top of filler set flush with concrete surface. Install contraction joints vertical, 1/8-inch wide, and 1/4 of the depth of the concrete flatwork.
      - Provide 1/2-inch radius edges. Apply a broom finish. Apply a curing agent.
    - Clear Space: No trip hazards in the clear space.



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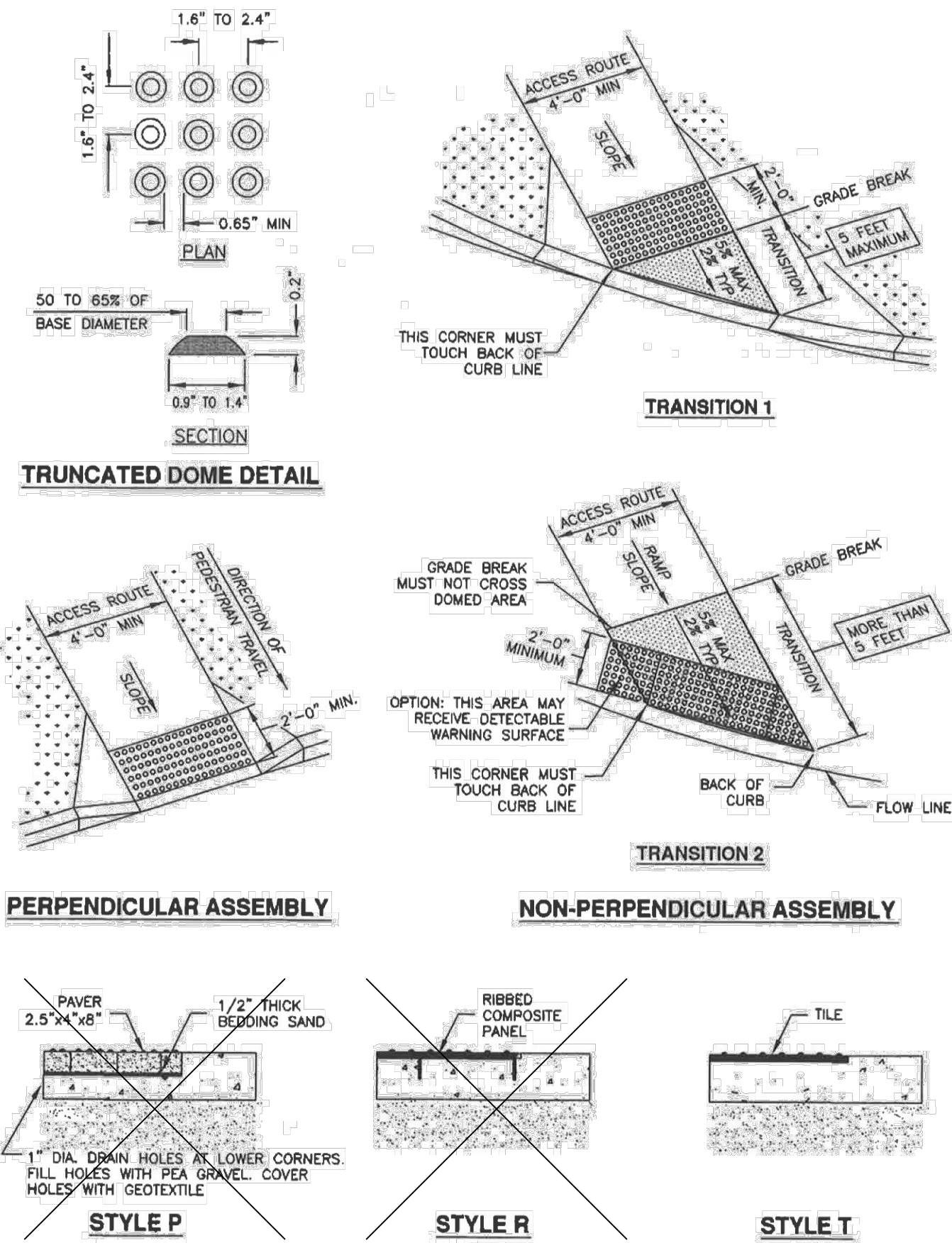
DETAILS

Scale: N/A Drawn: MEC  
Date: 04/03/24 Job #: 23-0012  
Sheet:

D2



- Detectable warning surface**
- GENERAL**
    - Detectable warnings consist of a surface of truncated domes aligned in a square or radial grid pattern with dome size, dome spacing, contrast and panel size as indicated.
    - Definitions and supplemental requirements are specified in APWA Section 32 16 14.
  - PRODUCTS**
    - Pavers:
      - Concrete, APWA Section 32 14 13.
      - Brick and Mortar, APWA Section 32 14 16.
    - Tile: Unless indicated elsewhere, selection is by CONTRACTOR as allowed by ENGINEER.
    - Ribbed Composite Panel: Unless indicated elsewhere, selection is by CONTRACTOR as allowed by ENGINEER.
    - Bedding Sand, Joint Sand, Geotextile: APWA Section 32 14 13.
  - EXECUTION**
    - Layout:
      - Joints Between Units: 3/16 inch maximum or manufacturer's recommendation.
      - Flares: Do not install detectable warning units on flared surfaces.
      - Alignment: Where a ramp, turning space, or blended transition provides access to the street continuously around a corner, align the vertical rows of truncated domes to be perpendicular or radial to the grade break between the ramp and the street for a 4 feet minimum width for each crosswalk served.
      - Transition 1 or 2: Selection is by ENGINEER unless indicated elsewhere.
      - At Rail Crossings: The edge of the detectable warning surface nearest the rail crossing is 6 feet minimum and 15 feet maximum from the centerline of the nearest rail.
    - Paver Installation: APWA Section 32 14 13. If paver must be cut, minimum paver cut length is 3/4 paver, or 1/2 paver length providing the adjacent paver is also reduced no more than 1/2 its original length. Do not cut pavers longitudinally. Remove domes that were cut.
    - Tile Installation: Install according to manufacturer's recommendations. Remove domes that were cut.
    - Ribbed Composite Panel Installation: Install according to manufacturer's recommendation. Remove domes that were cut. Seal cuts to prevent water intrusion.

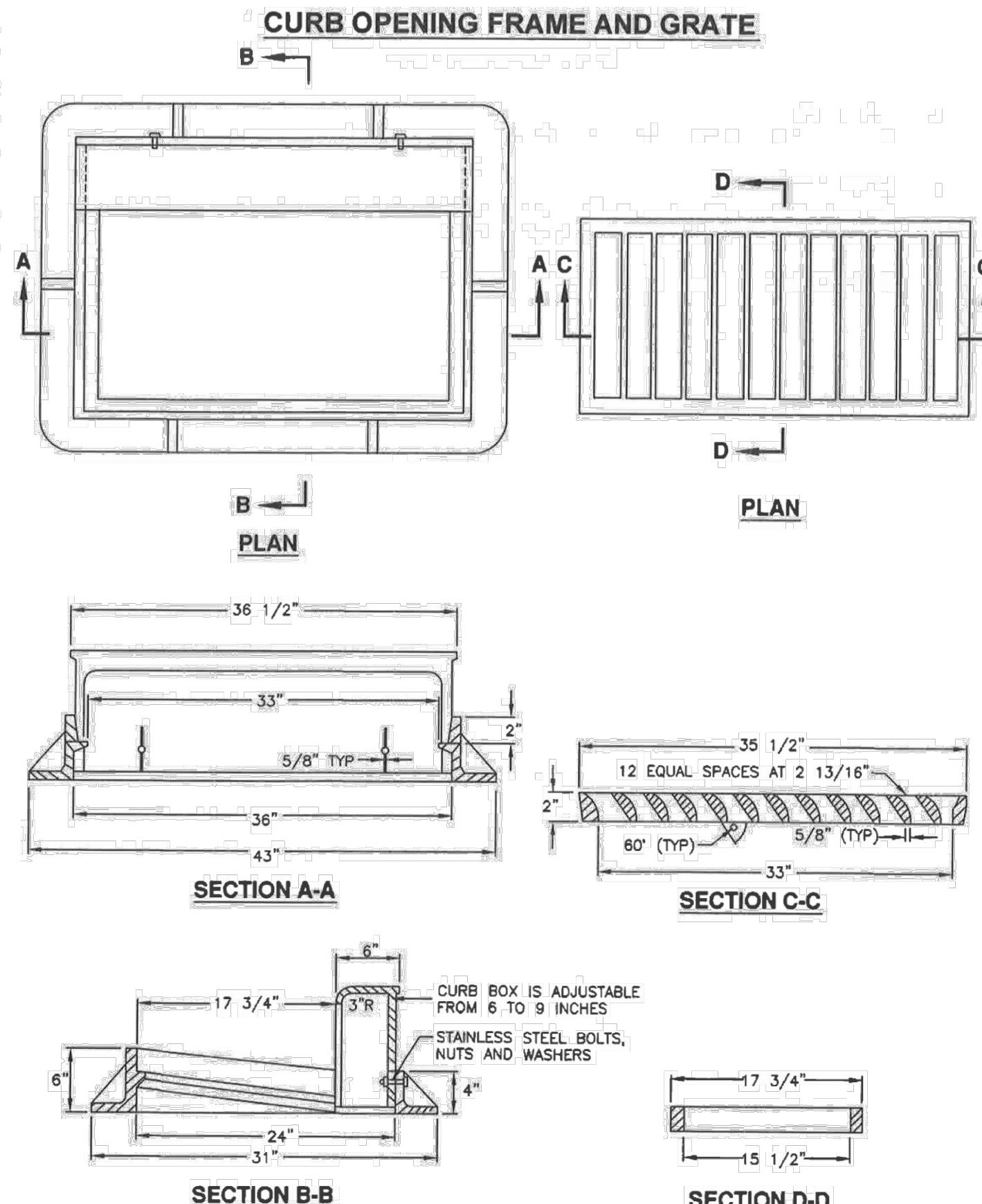


APWA Utah Chapter

**Detectable warning surface**

Plan  
**238**  
July 2011

- 35 1/2" Grate and frame**
- GENERAL**
    - The grate and frame fits concrete boxes in Plan 315.
  - PRODUCTS**
    - Castings: Grey iron class 35 minimum per ASTM A48, coated with asphalt based paint or better.
    - Bolts, Nuts, Washers, Accessories: Stainless steel, APWA Section 05 05 23.
  - EXECUTION** (Not used)

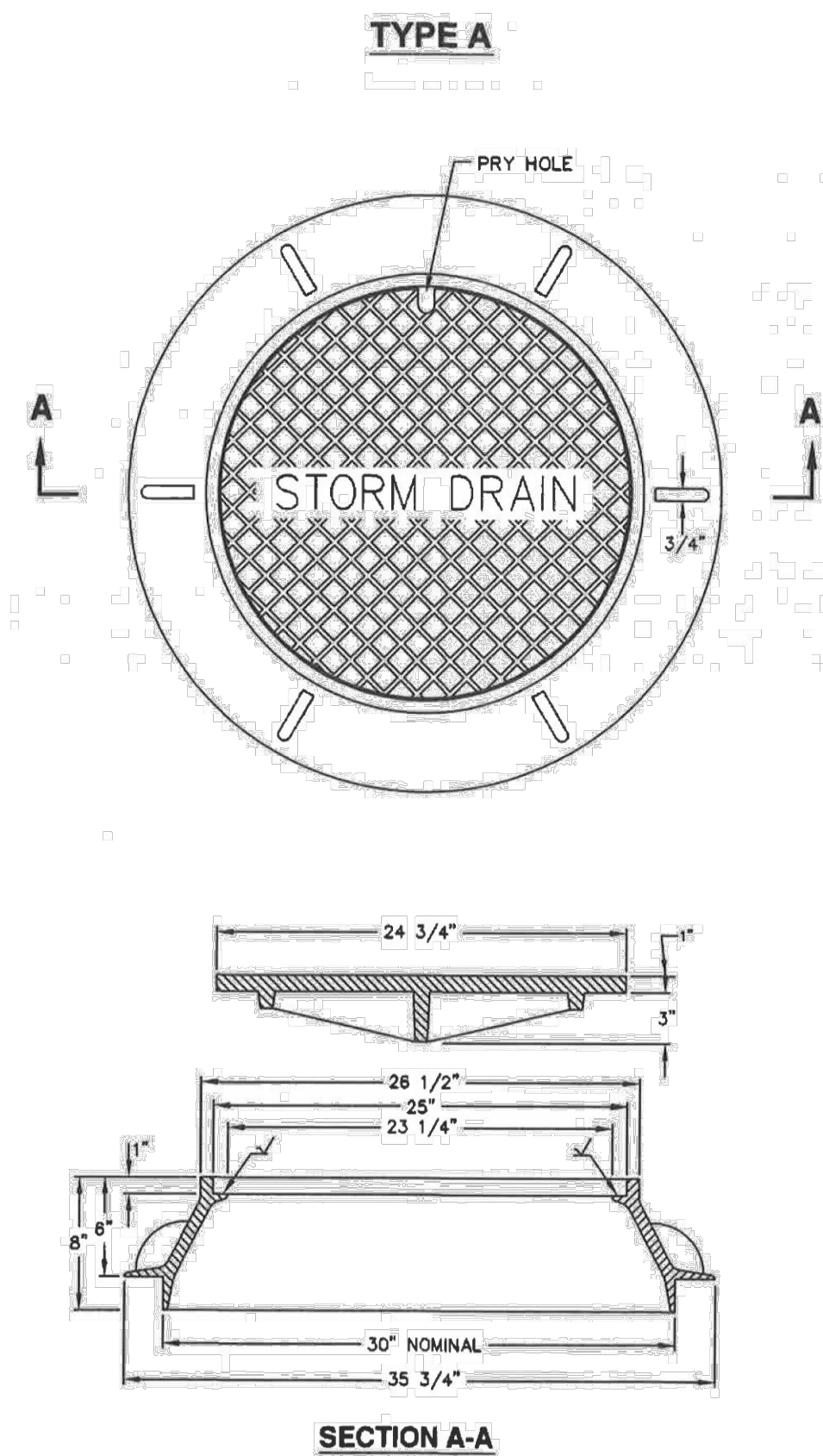


APWA Utah Chapter

**35 1/2" Grate and frame**

Plan  
**308**  
January 1999

- 30" Frame and cover**
- GENERAL**
    - The frame and cover fits.
      - Cleanout box type B in Plan 331, and
      - Precast manhole in Plan 341.
  - PRODUCTS**
    - Castings: Grey iron class 35 minimum, ASTM A48.
      - Coated with asphalt based paint or better (except on machined surfaces).
      - Cast the heat number on the frame and cover.
      - Give the frame and cover a machine finish so the cover will not rock.
      - ✓ designates a machine finished surface.
      - Cast the words "STORM DRAIN" on the cover in upper case flush with the surface finish.
  - EXECUTION**
    - Except in paved streets, provide locking manhole covers in easements, alleys, parking lots, and all other places. Drill and tap two holes to a depth of 1-inch at 90 degrees to pry hole and install 3/4 x 3/4-inch allen socket set screws.

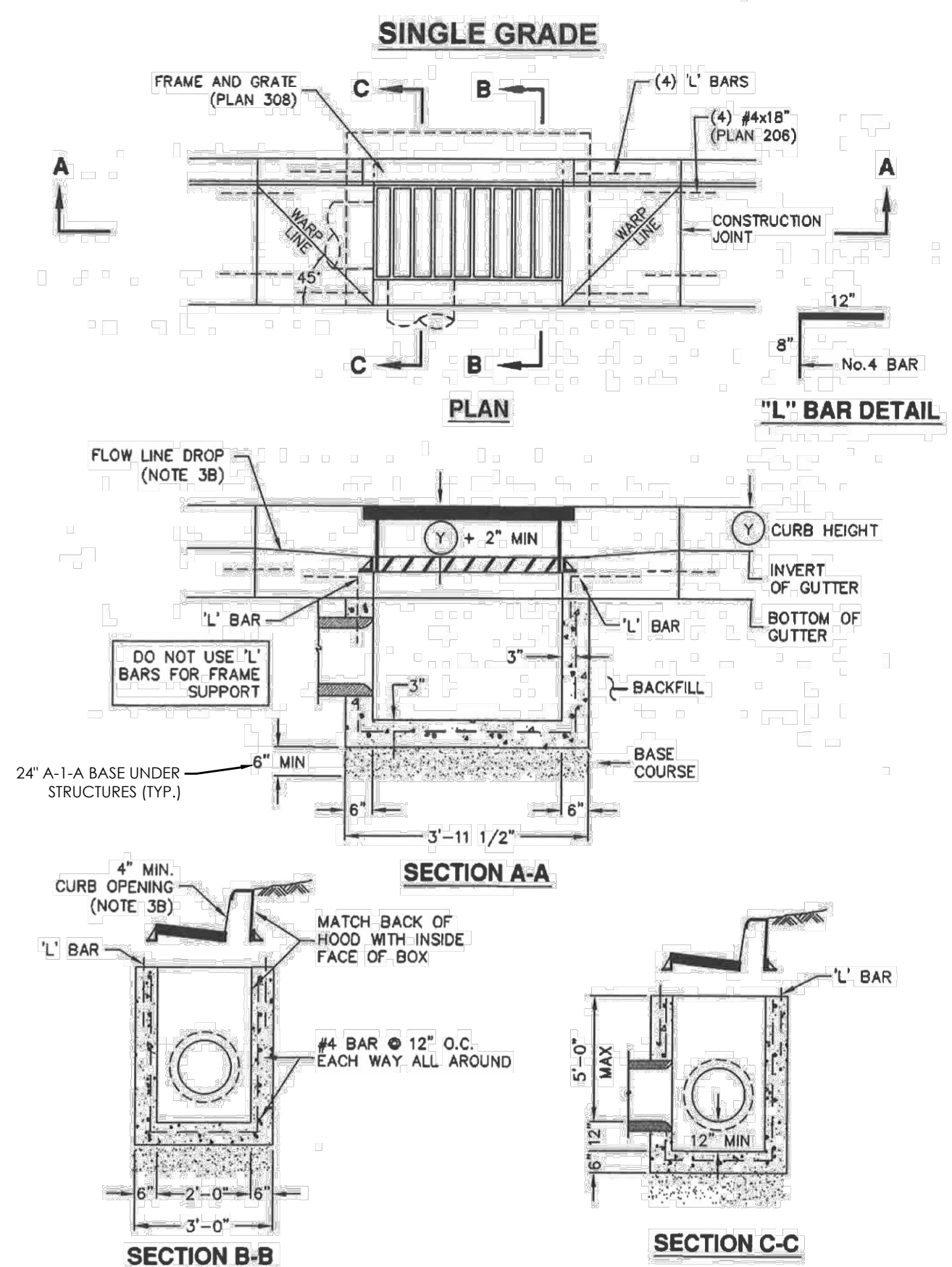


APWA Utah Chapter

**30" Frame and cover**

Plan  
**302.1**  
September 2001

- Catch basin**
- GENERAL**
    - The drawing shows typical pipe connections. Refer to construction drawings for connection locations or refer to field location of existing piping when engineering pipe connection to the box.
  - PRODUCTS**
    - Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel as a base course without ENGINEER's permission.
    - Backfill: Common fill, APWA Section 31 05 13. Maximum particle size 2-inches.
    - Concrete: Class 4500 APWA Section 03 30 04.
    - Reinforcement: Deformed, 60 ksi yield grade steel, ASTM A615.
  - EXECUTION**
    - Base Course Placement: APWA Section 32 11 23. Maximum lift thickness is 8-inches before compaction. Compaction is 95 percent or greater relative to a modified proctor density, APWA Section 31 23 26.
    - Curb Face Opening: Make opening at least 4-inches high. Provide at least a 2-inch drop between the "warp line" in the gutter flow-line and the top of the grate at the curb face opening.
    - Concrete Placement: APWA Section 03 30 10. Provide 1/2-inch radius edges. Apply a broom finish. Apply a curing agent.
    - Backfill: Place backfill against the basin wall. Pea gravel and recycled RAP aggregate is NOT ALLOWED. Water jetting is NOT allowed. Maximum lift thickness is 8-inches before compaction. Compaction is 95 percent or greater relative to a standard proctor density, APWA Section 31 23 26.



APWA Utah Chapter

**Catch basin**

Plan  
**315.1**  
September 2010

- NOTE:
- ALL CONCRETE TO BE 4500 PSI.
  - SEE MODIFICATIONS ON SHEET C8

**302.1**

**315.1**



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Date: 04/03/24	Job #: 23-0012
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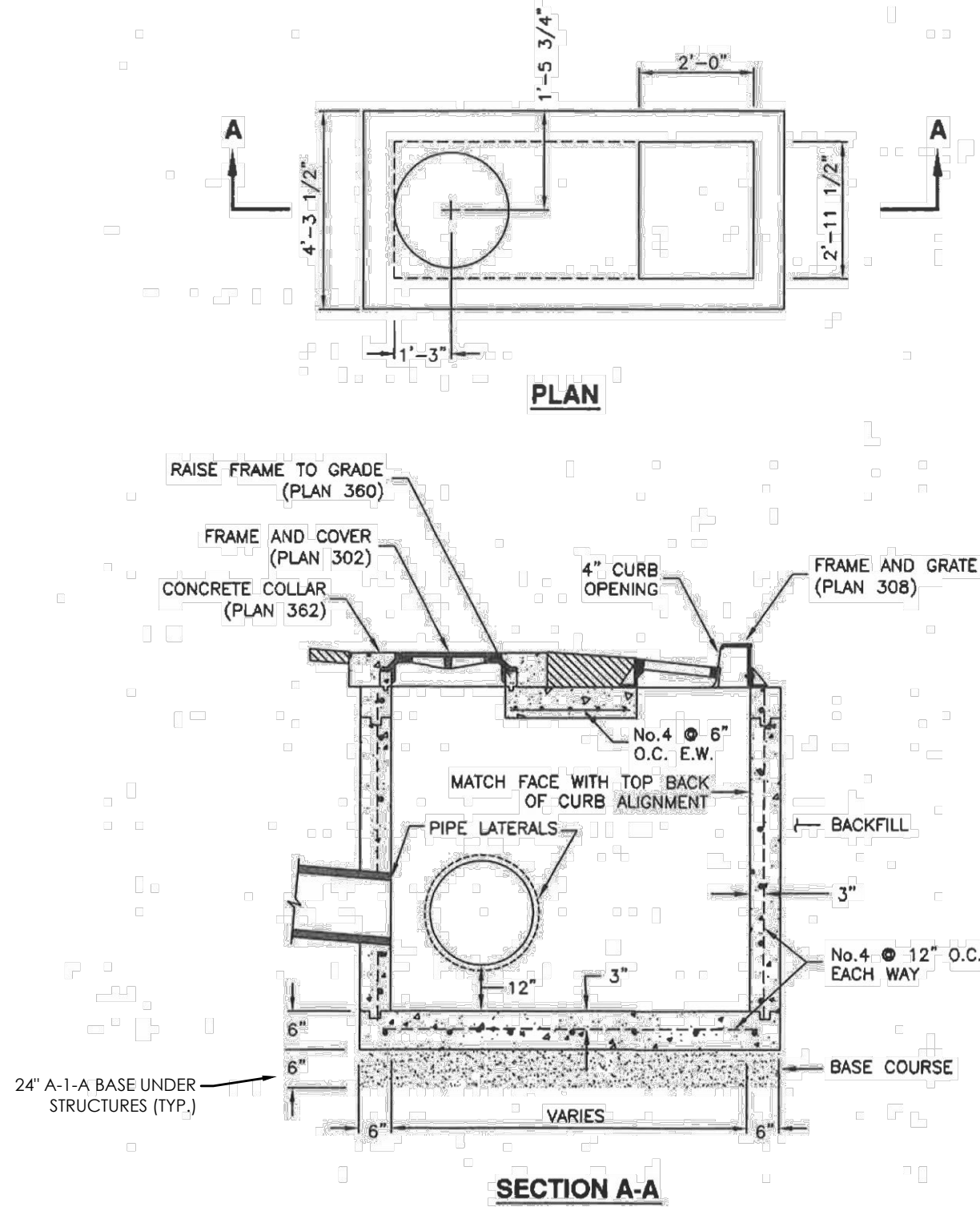
D3



Combination catch basin and cleanout box

1. **GENERAL**  
A. The drawing shows typical pipe connections. Refer to construction drawings for connection locations or refer to field location of existing piping when engineering pipe connection to the box.
2. **PRODUCTS**  
A. Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel as a base course without ENGINEER's permission.  
B. Backfill: Common fill, APWA Section 31 05 13. Maximum particle size 2-inches.  
C. Concrete: Class 4500 APWA Section 03 30 04.  
D. Reinforcement: Deformed, 60 ksi yield grade steel, ASTM A615.  
E. Ladder Rungs: Plastic, or plastic coated steel typically 8-inches wide.
3. **EXECUTION**  
A. Base Course Placement: APWA Section 32 11 23. Maximum lift thickness is 8-inches before compaction. Compaction is 95 percent or greater relative to a modified proctor density, APWA Section 31 23 26.  
B. Curb Face Opening: Make opening at least 4-inches high. Provide at least a 2-inch drop between the "begin warp" line in the gutter flow-line and the top of the grate at the curb face opening.  
C. Ladder Rungs: Provide rungs in boxes over 6 feet deep. When measured from the floor of the box, place bottom rung the greater distance of 4 feet from the floor of the box or 1 foot above the top of the pipe. Place top rung within 3 feet of bottom of box ceiling.  
D. Concrete Placement: APWA Section 03 30 10. Provide 1/2-inch radius edges. Apply a broom finish. Apply a curing agent.  
E. Backfill: Provide backfill against all sides of the box. Pea gravel and recycled RAP aggregate is NOT ALLOWED. Water jetting is NOT allowed. Maximum lift thickness is 8-inches before compaction. Compaction is 95 percent or greater relative to a standard proctor density, APWA Section 31 23 26.

NOTE:  
1. ALL CONCRETE TO BE 4500 PSI.

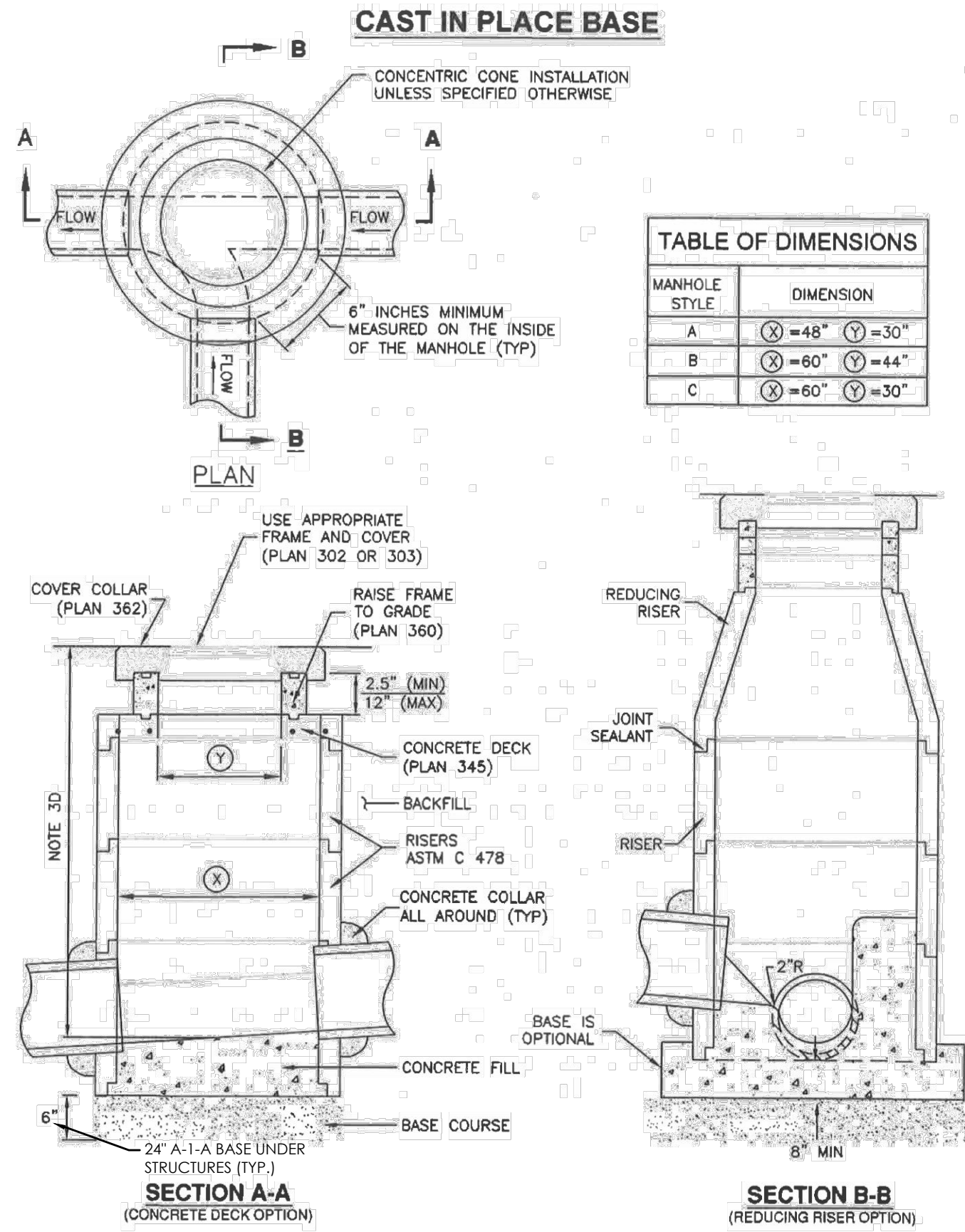


APWA Utah Chapter  
Combination catch basin and cleanout box  
Plan  
316  
March 2011

Precast manhole

1. **GENERAL**  
A. The drawing shows typical pipe connections. Refer to construction drawings for connection locations or refer to field location of existing piping when engineering pipe connection to the manhole.
- B. Manhole size:  
1) Diameter is 4-feet: For pipe under 12" diameter.  
2) Diameter is 5-feet: For pipe 12" and larger, or when 3 or more drain pipes intersect the manhole.
- C. Wall thickness:  
1) Precast reinforced concrete walls 4 3/4" minimum.  
2) Cast-in-place concrete to be 8 inches thick minimum.
2. **PRODUCTS**  
A. Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel as a base course without ENGINEER's permission.  
B. Backfill: Common fill, APWA Section 31 05 13. Maximum particle size 2-inches.  
C. Concrete: Class 4500 APWA Section 03 30 04.  
D. Riser and Reducing Riser: ASTM C478.  
E. Joint Sealant: Rubber based, compressible.  
F. Grout: 2 parts sand to 1 part cement mortar, ASTM C1329.  
G. Stabilization-Separation Geotextile: Moderate or high at CONTRACTOR's choice, APWA Section 31 05 19.
3. **EXECUTION**  
A. Foundation Stabilization: Get ENGINEER's permission to use a sewer rock or a sewer rock in a geotextile wrap to stabilize an unstable foundation.  
B. Base Course Placement: APWA Section 32 11 23. Maximum lift thickness is 8-inches before compaction. Compaction is 95 percent or greater relative to a modified proctor density, APWA Section 31 23 26.  
C. Invert cover: During construction, place invert covers over the top of pipe in manholes that currently convey sewerage. See Plan 412.  
D. Concrete Deck or Reducing Riser: When depth of manhole from pipe invert to finish grade exceeds 7 feet, use an ASTM C478 reducing riser.  
E. Pipe Connections: Grout around all pipe openings.  
F. Pipe Seal: Install rubber-based pipe seals on all plastic pipes when connecting plastic pipes to manholes. Hold water-stop in place with stainless steel bands.  
G. Joints: Place flexible sealant in all riser joints. Finish with grout.  
H. Adjustment: If the required manhole adjustment is more than 1'-0", remove the cone and grade rings and adjust the manhole elevation with the appropriate manhole section, the cone section, and the grade rings or plastic form to make frame and lid match finish grade.  
I. Finish: Provide smooth and neat finishes on interior of cones, shafts, and rings. Imperfect moldings or honeycombs will not be accepted.  
J. Backfill: Provide backfill against the manhole shaft. Pea gravel and recycled RAP aggregate is NOT ALLOWED. Water jetting is NOT allowed. Maximum lift thickness is 8-inches before compaction. Compaction is 95 percent or greater relative to a standard proctor density, APWA Section 31 23 26.

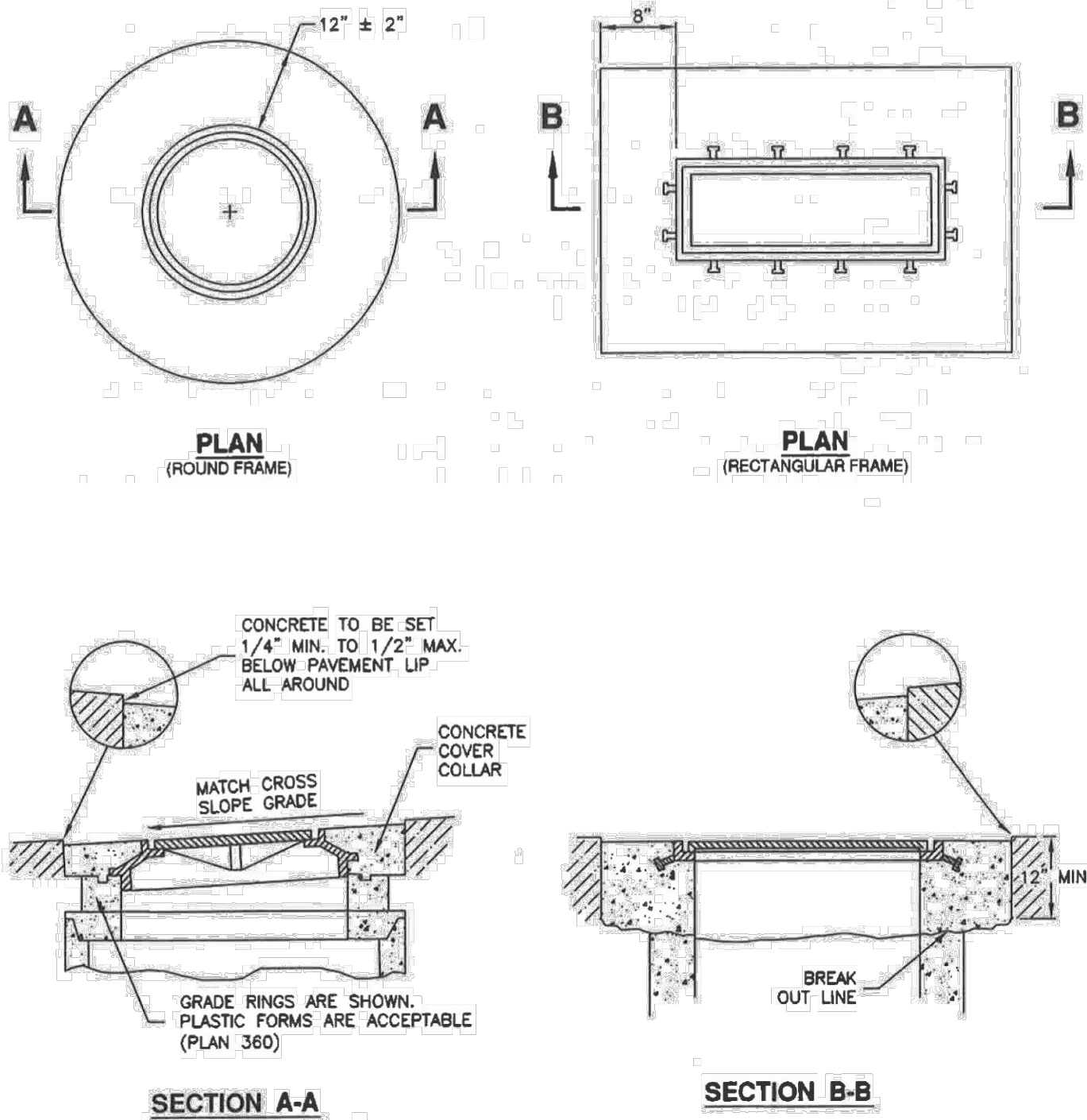
341.1



APWA Utah Chapter  
Precast manhole  
Plan  
341.1  
November 2010

Cover collar for storm drains

1. **GENERAL**  
A. In a pavement surface, the concrete will support the frame under traffic loadings.
2. **PRODUCTS**  
A. Concrete: Class 4500 APWA Section 03 30 04.  
B. Concrete Curing Agent: Clear membrane forming compound with fugitive dye (Type ID Class A), APWA Section 03 39 00.
3. **EXECUTION**  
A. Pavement Preparation: Provide a neat vertical and concentric joint between concrete and existing bituminous concrete surfaces. Clean edges of all dirt, oil, and loose debris.  
B. Concrete Placement: APWA Section 03 30 10. Fill the annular space around the frame and cover casting with concrete. Apply a broom finish. Apply a curing agent.

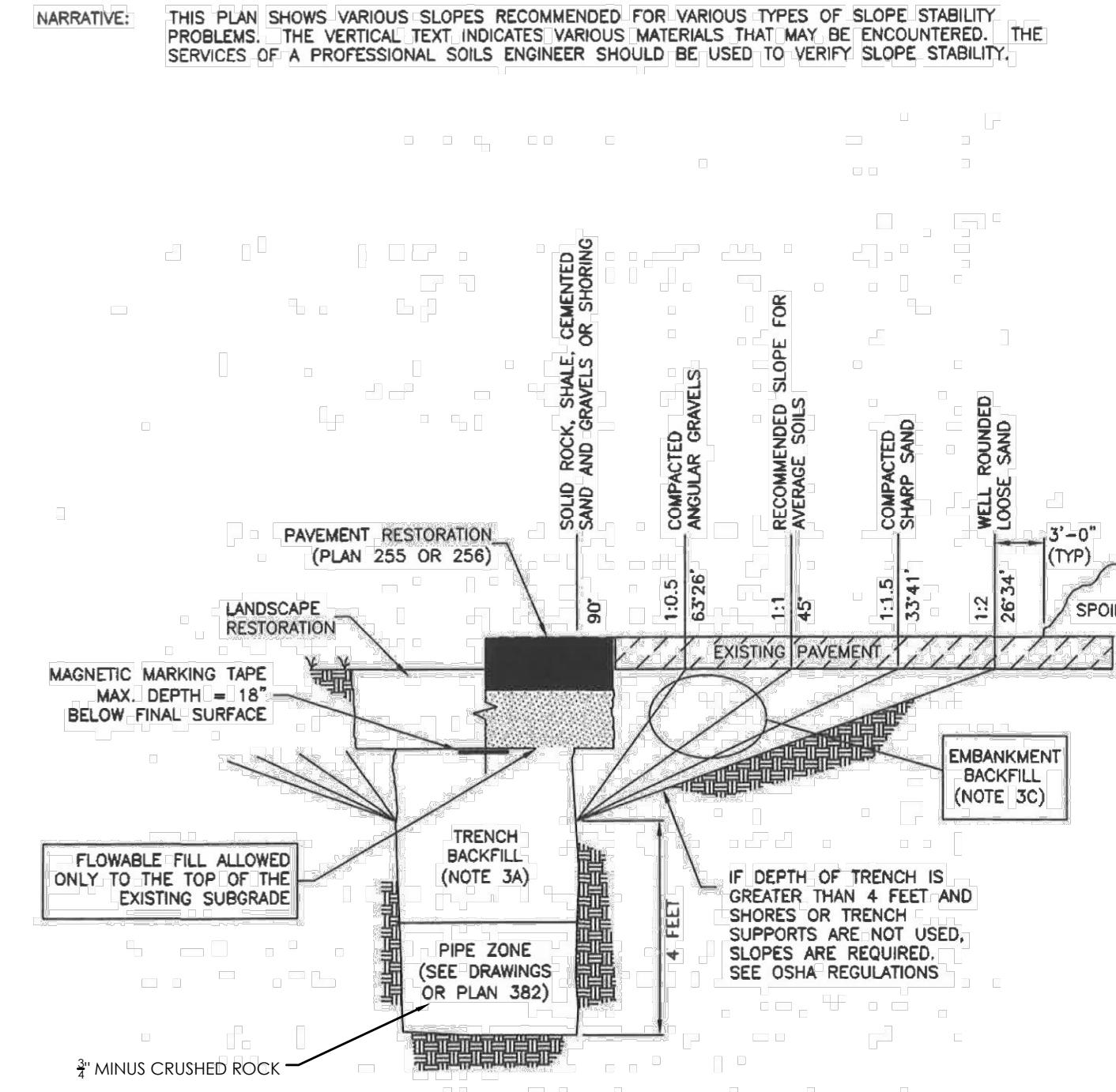


APWA Utah Chapter  
Cover collar for storm drains  
Plan  
362  
December 2010

Trench backfill

1. **GENERAL**  
A. The drawing applies to backfilling a trench (and embankment) above the pipe zone.
2. **PRODUCTS**  
A. Backfill: Common fill, APWA Section 31 05 13. Maximum particle size 3-inches.  
B. Flowable Fill: APWA Section 31 05 15. Target is 60 psi in 28 days with 90 psi maximum in 28 days, it must flow easily requiring no vibration for consolidation.
3. **EXECUTION**  
A. Trench Backfill Above the Pipe Zone: Follow requirement indicated in APWA Section 33 05 20 and the following provisions. See Standard Plan 382 for backfilling the pipe zone.  
1) DO NOT USE sewer rock, pea gravel, or recycled RAP aggregate as trench backfill.  
2) Maximum lift thickness is 8-inches before compaction. Compaction is 95 percent or greater relative to a standard proctor density, APWA Section 31 23 26.  
3) Water jetting is NOT allowed.  
B. Flowable Fill: If controlled low strength material is placed in the trench. Cure the material before placing surface restorations.  
C. Embankment Backfill: When trench sides are sloped proceed as follows.  
1) Maximum lift thickness is 8-inches before compaction.  
2) Compact per APWA Section 31 23 26 to 95 percent or greater relative to a standard proctor density.  
3) Submission of quality control compaction test result data may be requested by ENGINEER at any time. Provide results of tests immediately upon request.  
D. Surface Restoration:  
1) Landscaped Surface: Follow APWA Section 32 92 00 (turf or grass) or APWA Section 32 93 13 (ground cover) requirements. Rake to match existing grade. Replace vegetation to match pre-construction conditions.  
2) Paved Surface: Follow APWA Section 33 05 25 (bituminous pavement surfacing), or APWA Section 33 05 25 (concrete pavement surfacing). Do not install surfacing until compaction density is acceptable to ENGINEER.

381



APWA Utah Chapter  
SEWER AND STORM DRAIN  
Trench backfill  
Plan  
381  
July 2016

MATTHEWS MEADOWS SUBDIVISION PHASE 2

GRANTSVILLE, UT  
DETAILS

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Date: 04/03/24 Job #: 23-0012  
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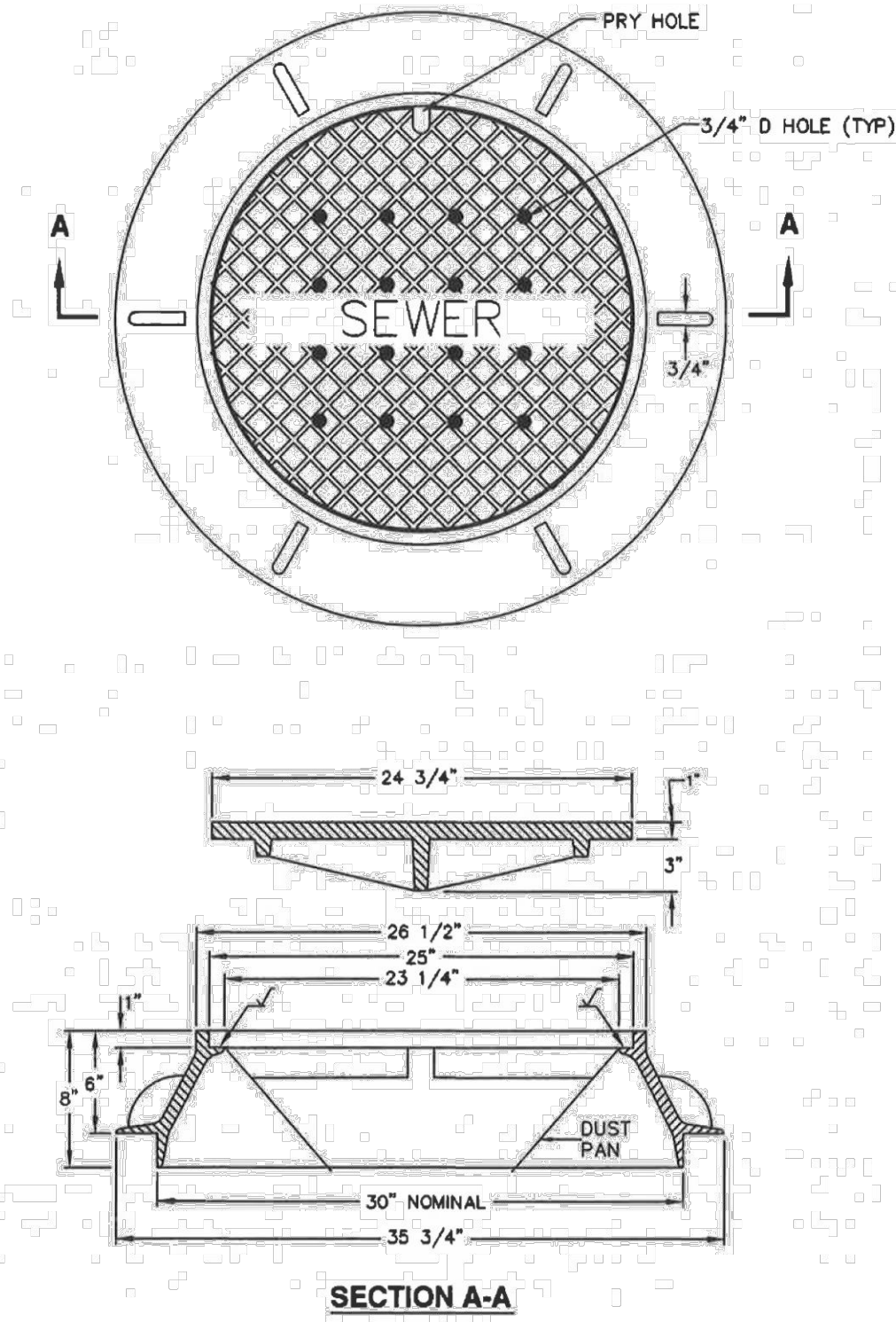
D4



30" Frame and cover

1. GENERAL  
A. The frame and cover fits the manhole in Plan 411.
2. PRODUCTS  
A. Castings: Grey iron class 35 minimum, ASTM A48, coated with asphalt based paint or better (except on machined surfaces).
  - 1) Cast the heat number on the frame and cover.
  - 2) Give the frame and cover a machine finish so the cover will not rock.
  - 3) ✓ designates machined surface.
  - 4) Cast the words "SEWER" on the cover in upper case flush with the surface finish.
3. EXECUTION  
A. Except in paved streets, provide locking manhole covers in easements, alleys, parking lots, and all other places. Drill and tap two holes to a depth of 1-inch at 90 degrees to pry hole and install 3/4 x 3/4-inch allen socket set screws.

NOTE:  
1. ALL CONCRETE TO BE 4500 PSI.



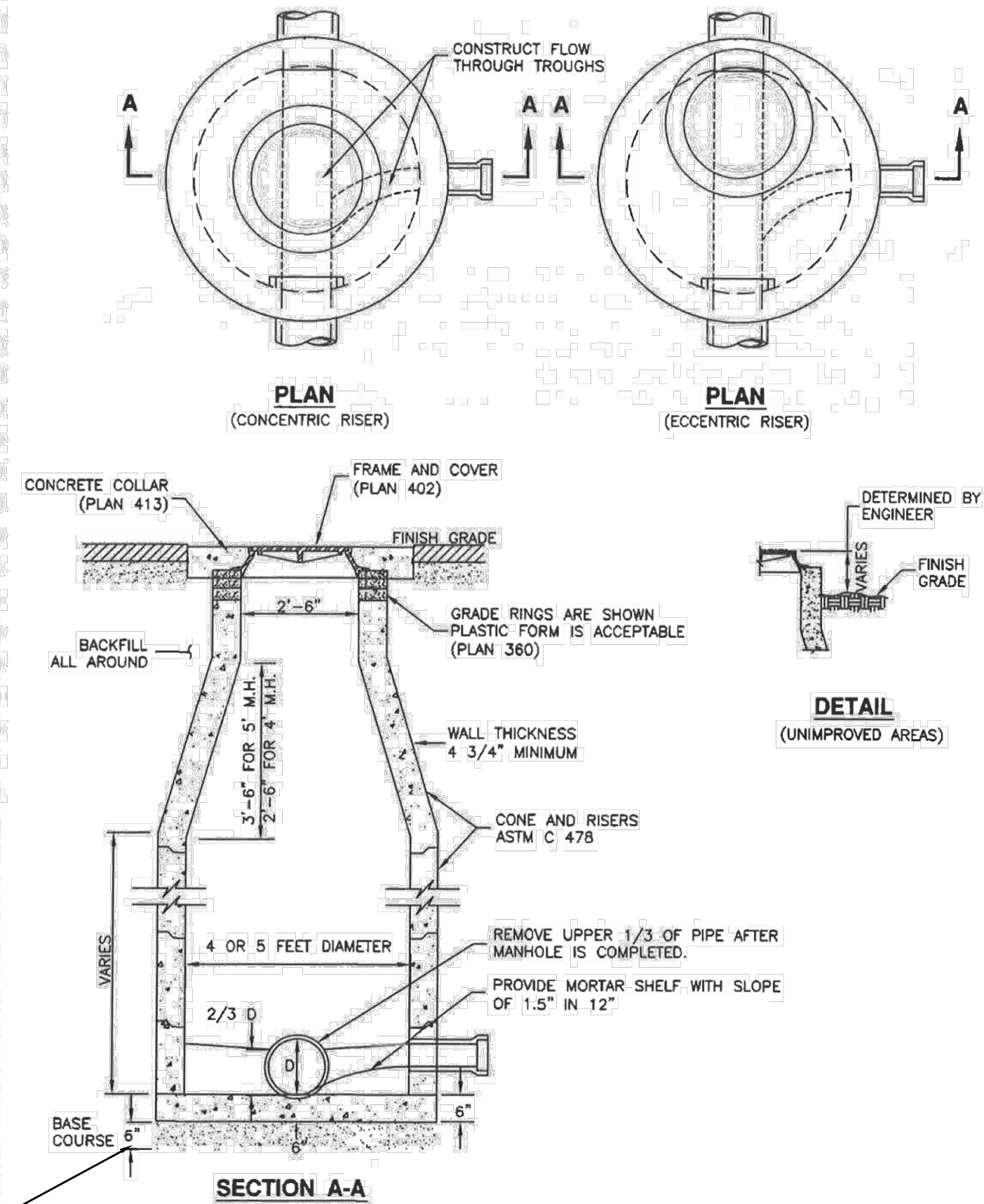
30" Frame and cover

Plan  
402  
April 1997

402

Sanitary sewer manhole

1. GENERAL  
A. The drawing shows typical pipe connections. Refer to construction drawings for connection locations or refer to field location of existing piping when engineering pipe connection to the manhole.  
B. Manhole size:
  - 1) Diameter is 4 feet: For sewers under 12" diameter.
  - 2) Diameter is 5 feet: For sewers 12" and larger, or when 3 or more pipes intersect the manhole.
2. PRODUCTS  
A. Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel as a base course without ENGINEER's permission.  
B. Backfill: Common fill, APWA Section 31 05 13. Maximum particle size 2-inches.  
C. Concrete: Class 4500 APWA Section 03 30 04.  
D. Riser and Reducing Riser: ASTM C478.  
E. Reinforcement: Deformed, 60 ksi yield grade steel, ASTM A615.  
F. Grout: 2 parts sand to 1 part cement mortar, ASTM C1329.  
G. Stabilization-Separation Geotextile: Moderate or high at CONTRACTOR's choice, APWA Section 31 05 19.
3. EXECUTION  
A. Foundation Stabilization: Get ENGINEER's permission to use a sewer rock or a granular backfill borrow in a geotextile wrap to stabilize an unstable foundation.  
B. Base Course Placement: APWA Section 32 11 23. Maximum lift thickness is 8-inches before compaction. Compaction is 95 percent or greater relative to a modified proctor density, APWA Section 31 23 26.  
C. Invert Cover: During construction, place invert covers over the top of pipe in manholes that currently convey sewerage. See Plan 412.  
D. Pipe Connections: Grout around all pipe openings.  
E. Pipe Seal: Install rubber-based pipe seals on all plastic pipes when connecting plastic pipes to manholes. Hold water-stop in place with stainless steel bands.  
F. Joints: Place flexible gasket-type sealant in all riser joints. Finish with grout.  
G. Adjustment: If the required manhole adjustment is more than 1'-0", remove the cone and grade rings and adjust the manhole elevation with the appropriate manhole section, the cone section, and the grade rings or plastic form to make frame and lid match finish grade.  
H. Finish: Provide smooth and neat finishes on interior of cones, shafts, and rings. Imperfect moldings or honeycombs will not be accepted.  
I. Backfill: Provide backfill against the manhole shaft. Pea gravel and recycled RAP aggregate is NOT ALLOWED. Water jetting is NOT allowed. Maximum lift thickness is 8-inches before compaction. Compaction is 95 percent or greater relative to a standard proctor density, APWA Section 31 23 26.



Sanitary sewer manhole

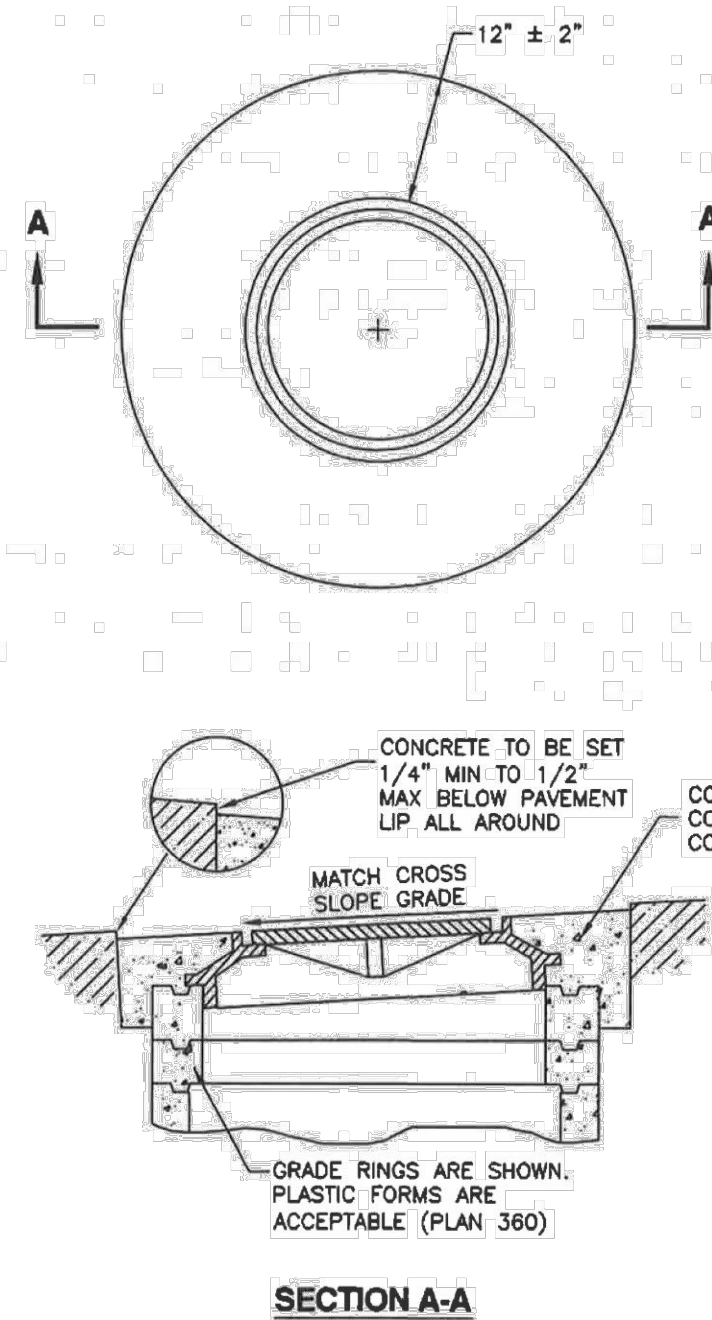
Plan  
411  
April 2011

24" A-1-A BASE UNDER STRUCTURES (TYP.)

411

Cover collar for sanitary sewer manhole

1. GENERAL  
A. In a pavement surface, the concrete will support the frame under traffic loadings.
2. PRODUCTS  
A. Concrete: Class 4500 APWA Section 03 30 04.  
B. Concrete Curing Agent: Type ID Class A (clear with fugitive dye), membrane forming compound, APWA Section 03 39 00.
3. EXECUTION  
A. Pavement Preparation: Provide a neat vertical and concentric joint between the concrete collar and the bituminous pavement surface. Clean edges of all dirt, oil, and loose debris.  
B. Concrete Placement: Fill the annular space around the frame and cover casting with concrete. Apply a broom finish. Apply a curing agent.



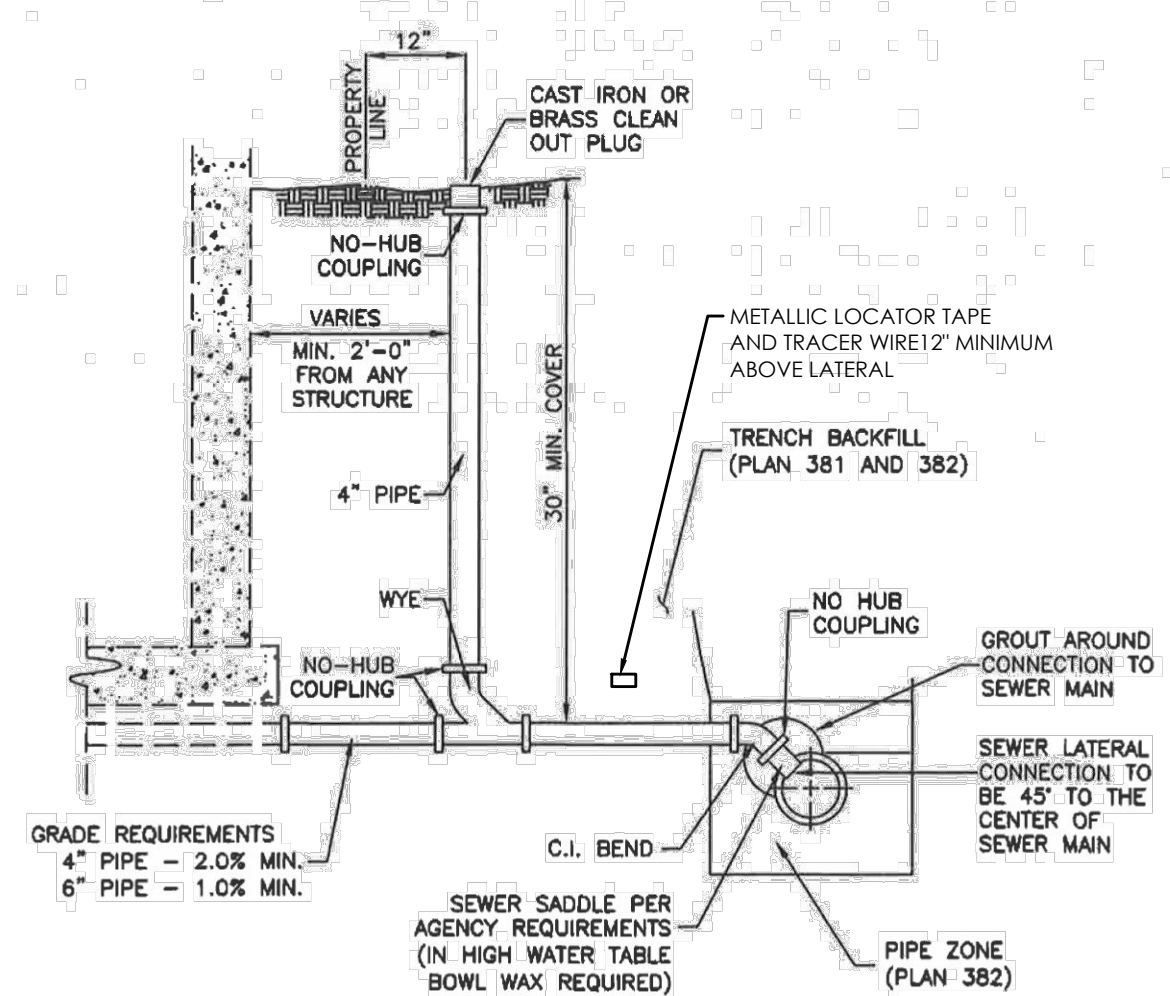
Cover collar for sanitary sewer manhole

Plan  
413  
September 2001

413

Sewer lateral connection

1. GENERAL  
A. Before installation, secure acceptance by ENGINEER for all pipe, fittings, and couplings to be used.  
B. Before backfilling, secure inspection of installation by ENGINEER. Give at least 24 hours notice.  
C. Verify if CONTRACTOR or agency is to install the wye.
2. PRODUCTS  
A. Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel as a base course without ENGINEER's permission.  
B. Backfill: Common fill, APWA Section 31 05 13. Maximum particle size 2-inches.  
C. Provide agency approved wye or tee with appropriate donut.  
D. Stainless steel straps required.
3. EXECUTION  
A. Tape wrap pipe as required by soil conditions.  
B. Remove core plug from sewer main. Do not break into sewer main to make connection.  
C. Base Course and Backfill Placement: Maximum lift thickness is 8-inches before compaction. Compaction is 95 percent or greater relative to a standard proctor density, APWA Section 31 23 26.



Sewer lateral connection

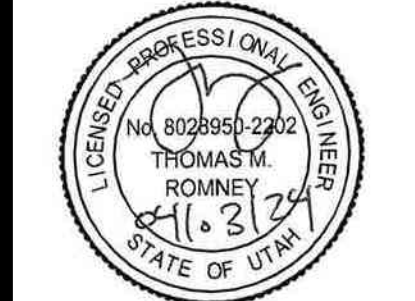
Plan  
431  
January 2011

MATTHEWS MEADOWS SUBDIVISION PHASE 2  
GRANTSVILLE, UT  
DETAILS

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DETAILS	
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Sheet:	D5

**FOCUS**  
ENGINEERING AND SURVEYING, LLC  
6949 S. HIGH TECH DRIVE SUITE 200  
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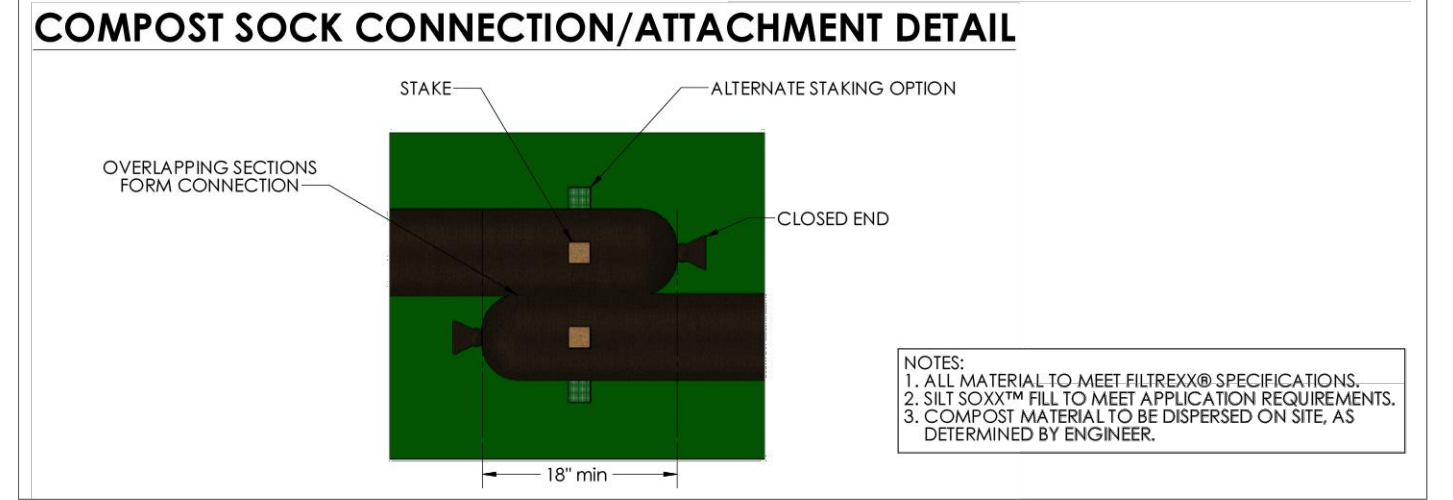




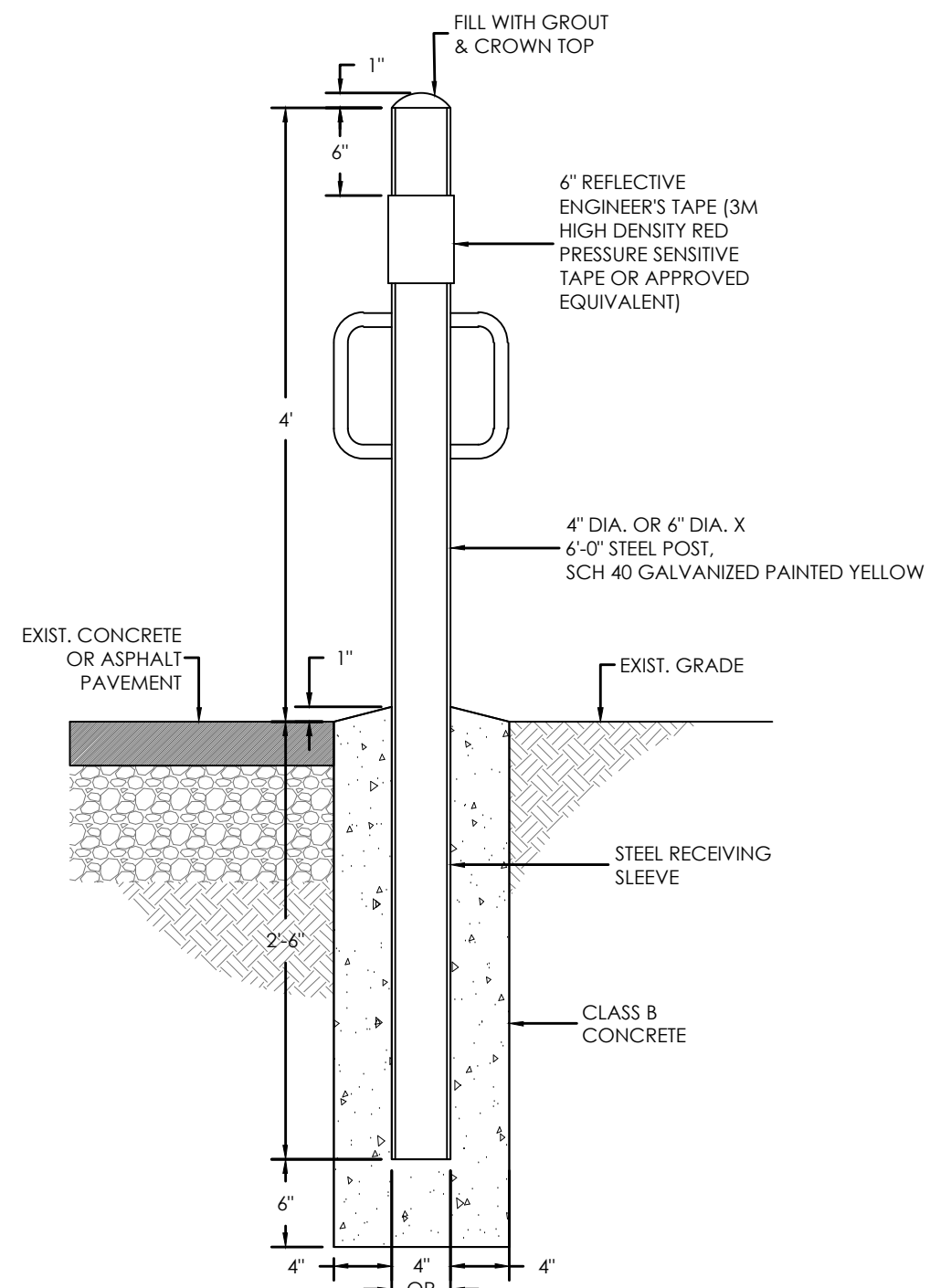
1. Perimeter control will be placed at locations indicated on plans and as determined as directed by the Engineer.
2. Perimeter control should be installed parallel to the base of the slope or other disturbed area. In challenging conditions (i.e., 2:1 slopes), a second perimeter control shall be constructed at the top of the slope, or staking may be increased.
3. Effective Soxx height in the field should be as follows: 5" diameter Soxx = 4" high; 8" diameter Soxx = 6.5" high; 11" diameter Soxx = 9.5" high; 18" diameter Soxx = 14.5" high; 24" diameter Soxx = 19" high.
4. Stakes should be installed through the middle of the perimeter control on 10 ft (3m) centers, using 2 in (50mm) by 2 in (50mm) by 3 ft (1m) wooden stakes. 5" diameter Soxx may use 1" (25 mm) x 1" (25 mm) 18" (0.5 m) wooden stakes. In the event staking is not possible, i.e., when perimeter control is used on pavement, concrete, or other blocks that cannot be penetrated, the perimeter control to help stabilize during rainfall/unroof events.
5. Staking depth for sand and silt loam soils shall be 12 in (300mm), and 8 in (200mm) for clay soils.
6. Staking depth for gravel and cobbles as needed on the ground, ensuring there is good ground contact and no voids spaces under the Soxx.
7. Do not drag Soxx across rough surfaces. If dragging across a
8. Loose compost may be backfilled along the upslope side of the perimeter control, filling the seam between the soil surface and the device, improving filtration and sediment retention.
9. If the perimeter control is to be left as a permanent filter or part of a natural landform, it must be seeded at time of installation for establishment of permanent vegetation. The Engineer will specify seed requirements.

## MAINTENANCE & DISPOSAL

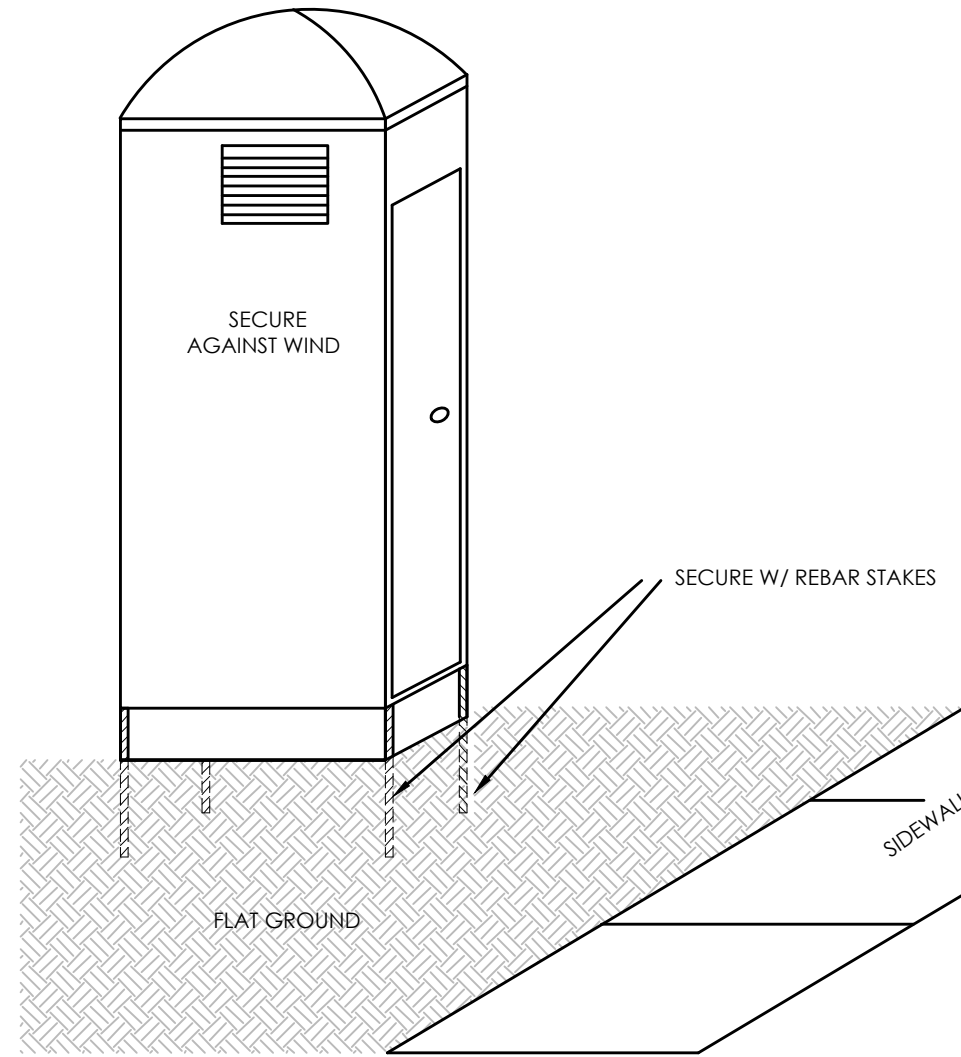
1. If the perimeter control is used in sediment at the base of the upslope side of the perimeter when accumulation has reached 1/2 of the effective height of the sock, or as directed by the Engineer. Alternatively, a new perimeter control sock can be placed on top of or slightly behind the original one creating more sediment storage capacity without disturbance.
2. Perimeter control shall be maintained until disturbed area above the device has been permanently stabilized and construction activity has ceased.
3. If the perimeter sock media will be dispersed on site once disturbed area has been permanently stabilized, construction activity has ceased, or as determined by the Engineer.



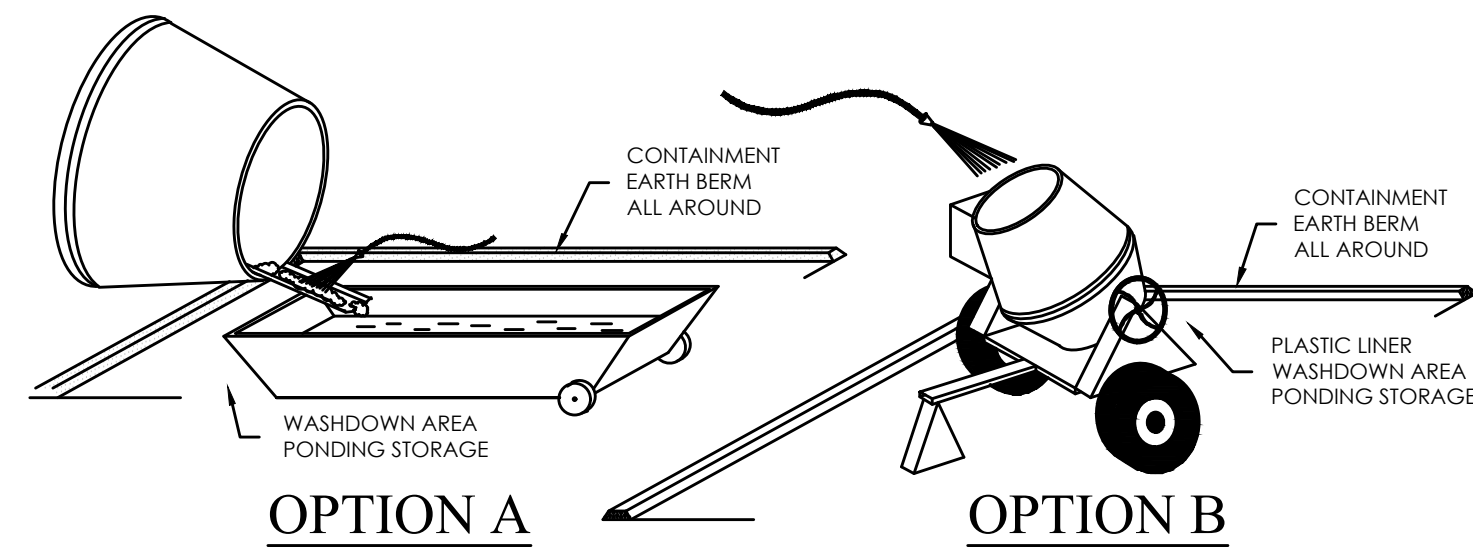
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### REMOVABLE BOLLARD DETAIL



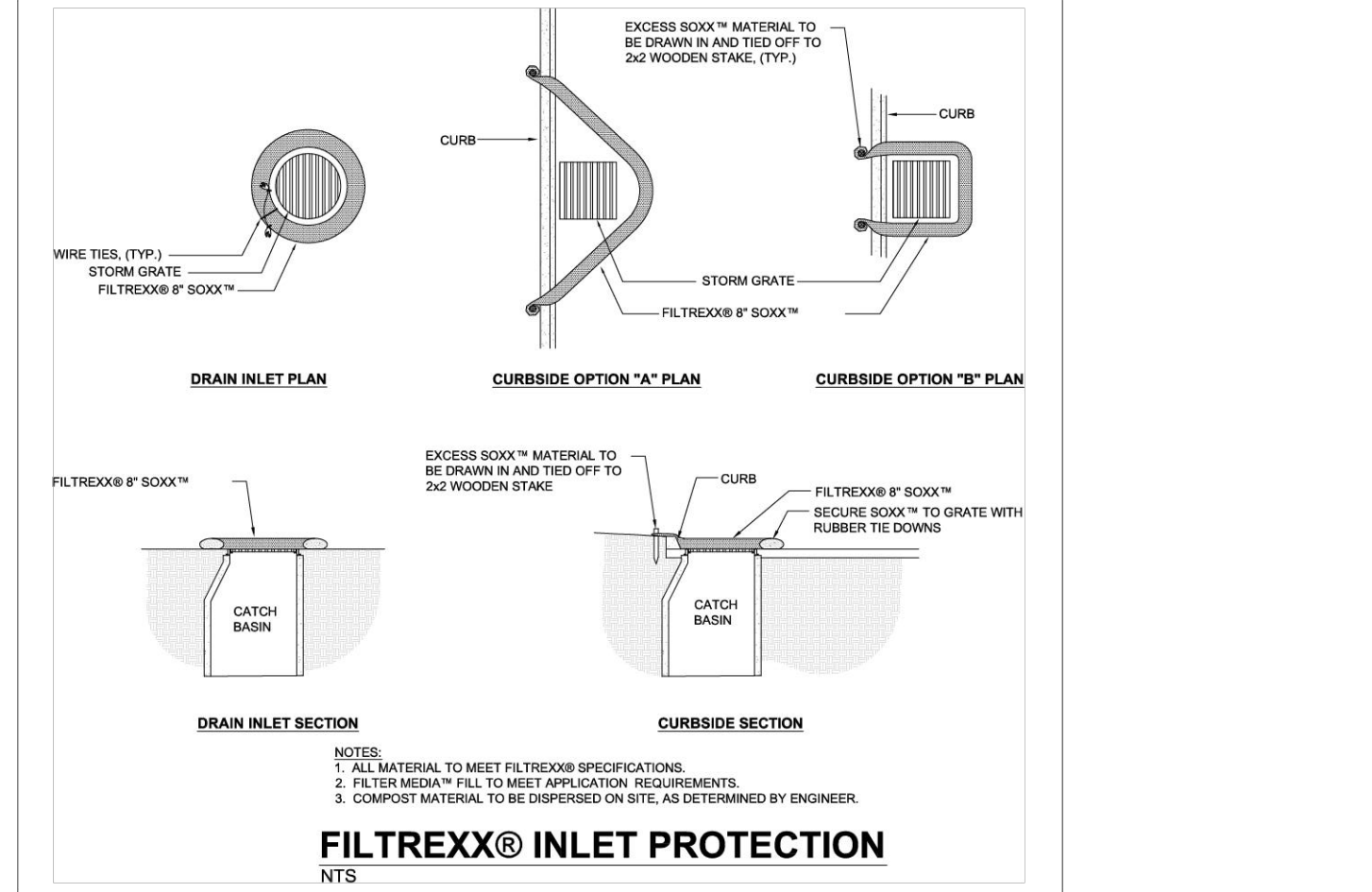
## PORTABLE TOILET



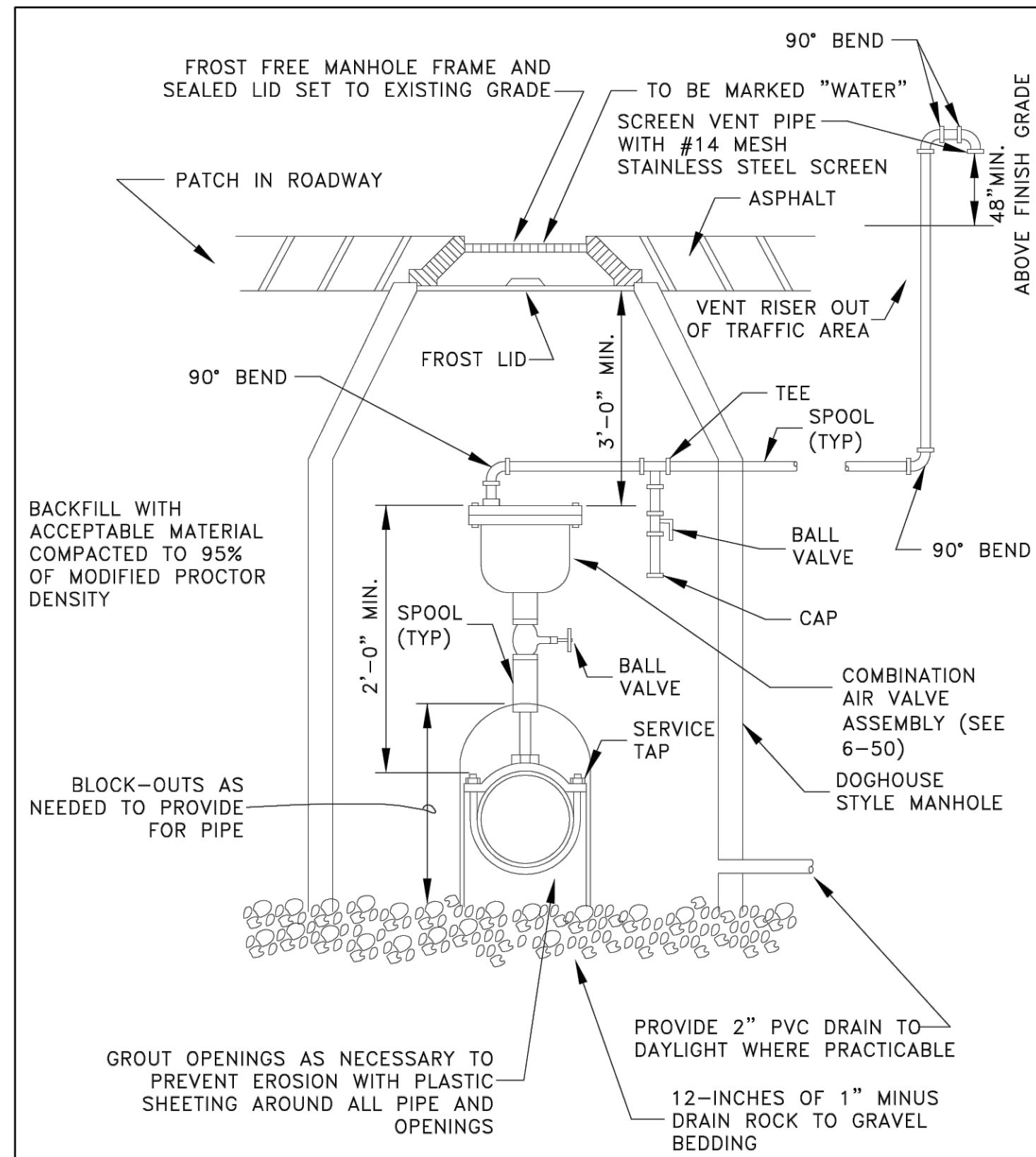
## CONCRETE WASTE MANAGEMENT



1. Inlet protection shall be placed at locations indicated on plans as directed by the Engineer. Inlet protection shall be installed in a pattern that allows complete coverage of the inlet opening.
2. Installation of curb and inlet protection will ensure a minimal overlap of at least 1 ft (300mm) on either side of the opening being protected. Inlet protection will not be anchored to the soil behind the curb. The inlet protection may be other devices capable of holding the inlet protection in place.
3. Standard inlet protection for curb and inlet protection and curb sediment containment will use 8 in (200mm) diameter inlet protection, and drain inlet protection will use 12 in (300mm) x 8 in (450mm) diameter inlet protection. In severe flow situations, larger inlet protection may be specified by the Engineer. During curb installation, inlet protection shall be compacted to be flush with the curb height.
4. If inlet protection becomes congested with debris and sediment, they shall be maintained so as to assure proper drainage and water flow into the storm drain. In severe storm events, overflow of the inlet protection may be acceptable in order to keep the curb from floating.
5. Curb and drain inlet protection shall be positioned so as to provide a permeable physical barrier to the drain itself, allowing sediment to collect on the outside of the inlet protection. For curb and inlet protection where the curb and inlet protection are separated, a spacer is required in order to keep the inlet protection away from the drain opening. This spacer should be under



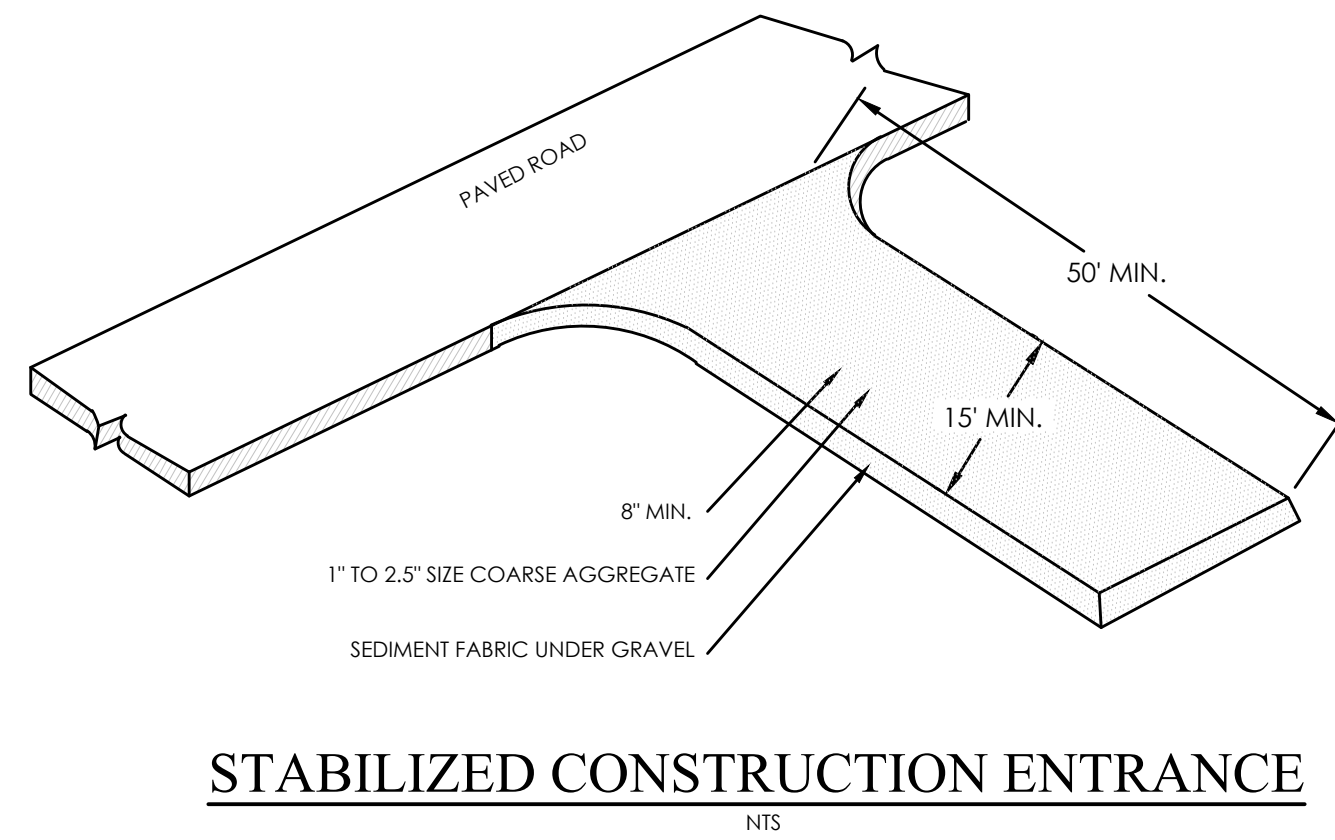
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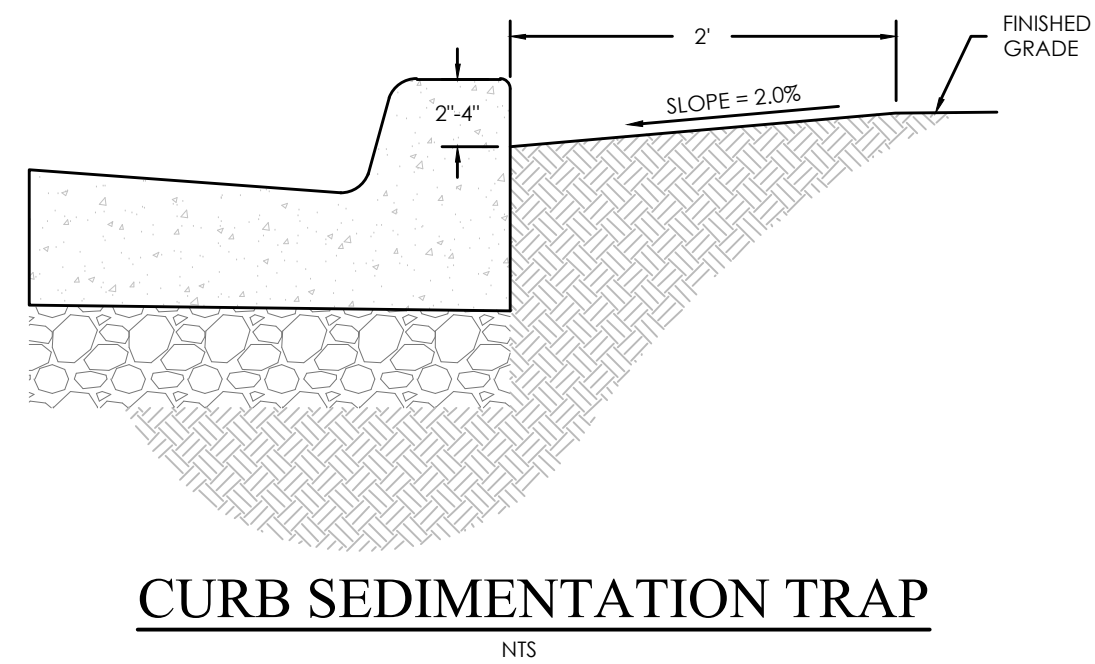
NOTE:

1- ALTERNATELY, THE OPEN END OF THE PIPE MAY BE EXTENDED TO AS LITTLE AS 1 FOOT ABOVE THE TOP OF THE PIPE IF THE VALVE CHAMBER IS NOT SUBJECT TO FLOODING, OR IF IT MEETS THE REQUIREMENTS OF UAC R309-550-6(7).

GRANTSVILLE CITY  
AIR RELEASE VALVE MANHOLE DETAIL



STABILIZED CONSTRUCTION ENTRANCE  
NTS



## CURB SEDIMENTATION TRAP

**FOCUS<sup>®</sup>**  
ENGINEERING AND SURVEYING, LLC  
6949 S. HIGH TECH DRIVE SUITE 200  
MIDVALE, UTAH 84047 PH: (801) 352-0075  
[www.focusutah.com](http://www.focusutah.com)



MATTHEWS MEADOWS SUBDIVISION PHASE 2  
GRANTSVILLE, UT  
DETAILS

REVISION BLOCK	
#	DATE DESCRIPTION
1	10/1/2010
2	10/1/2010
3	10/1/2010
4	10/1/2010
5	10/1/2010
6	10/1/2010

## DETAILS

Scale: N/A	Drawn: MEC
Date: 04/03/24	Job #: 23-0012
Sheet:	

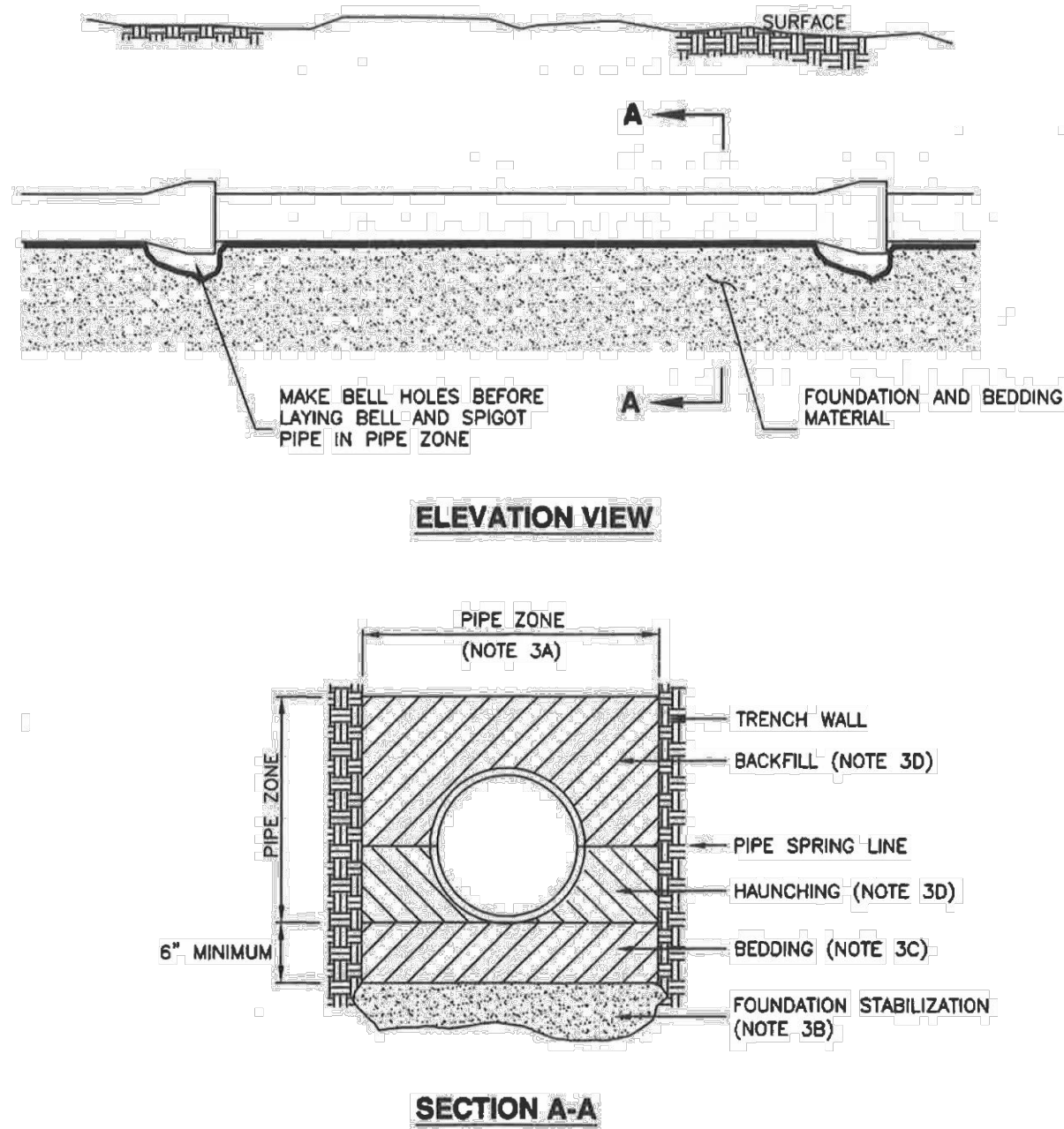
D6



Pipe zone backfill

1. GENERAL
- A. Install the pipe in the center of the trench or no closer than 6-inches from the wall of the pipe to the wall of the trench.
2. PRODUCTS
- A. Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel as a base course without ENGINEER's permission.
- B. Backfill: Common fill, APWA Section 31 05 13. Maximum particle size 2-inches.
- C. Concrete: APWA Section 03 30 04.
- D. Flowable Fill: Target is 60 psi in 28 days with 90 psi maximum in 28 days, APWA Section 31 05 15. It must flow easily requiring no vibration for consolidation.
- E. Stabilization-Separation Geotextile: Moderate or high at CONTRACTOR's choice, APWA Section 31 05 19.
3. EXECUTION
- A. Excavate the Pipe Zone: Width is measured at the pipe spring line and includes any necessary sheathing. Provide width recommended by pipe manufacturer. Follow manufacturer's recommendations when using trench boxes.
- B. Foundation Stabilization: Get ENGINEER's permission before installing common fill. Vibrate to stabilize. Installation of stabilization-separation geotextile will be required to separate backfill material and native subgrade materials if common fill cannot provide a working surface or prevent soils migration.
- C. Bedding: Follow APWA Section 33 05 20 requirements and the following provisions:
- 1) Furnish untreated base course material unless specified otherwise by pipe manufacturer.
- 2) Maximum lift thickness is 8-inches.
- 3) Bedding immediately under the pipe should not be compacted, but loosely placed.
- 4) Compaction is 95 percent or greater relative to a modified proctor density, APWA Section 31 23 26.
- 5) When using concrete, provide at least Class 2,000, APWA Section 03 30 04.
- Pipe Zone: DO NOT USE sewer rock, pea gravel, or recycled RAP aggregate in the pipe zone. Water jetting is NOT allowed.
- 1) Maximum lift thickness is 8-inches before compaction. Compaction is 95 percent or greater relative to a modified proctor density, APWA Section 31 23 26 unless pipe manufacturer requires more stringent installation.
- 2) Submission of quality control compaction test result data developed for the haunch zone may be requested by ENGINEER at any time. CONTRACTOR is to provide results of tests immediately upon request.
- E. Flowable Fill (when required and if allowed by pipe manufacturer):
- 1) Place the controlled low strength material, APWA Section 31 05 15.
- 2) Prevent pipe flotation by installing in lifts and providing pipe restraints as required by pipe manufacturer.
- 3) Reset pipe to line and grade if pipe "floats" out of position.

USE 3/4" DRAIN ROCK



INSTALLATION

CONCRETE PIPE: FOLLOW ASTM C 1479  
"STANDARD PRACTICE FOR INSTALLATION OF PRECAST CONCRETE SEWER, STORM DRAIN, AND CULVERT PIPE USING STANDARD INSTALLATIONS."

PLASTIC PIPE: FOLLOW ASTM D 2321  
"STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY-FLOW APPLICATIONS"

CORRUGATED METAL PIPE: FOLLOW ASTM A 798  
"STANDARD PRACTICE FOR INSTALLING FACTORY-MADE CORRUGATED STEEL PIPE FOR SEWERS AND OTHER APPLICATIONS."

VITRIFIED CLAY PIPE: FOLLOW ASTM C 12.  
"STANDARD RECOMMENDED PRACTICE FOR INSTALLING VITRIFIED CLAY PIPE LINES."



Pipe zone backfill

Plan  
382  
January 2011

Tie-down thrust restraints

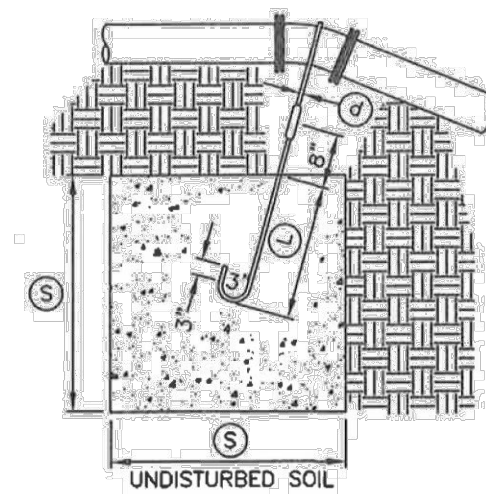
1. GENERAL
- A. Thrust design for pipe sizes or configurations not shown require special design.
- B. Bearing areas, volumes, and special thrust blocking details shown on Drawings take precedence over this plan.
- C. Restraint sizing is based upon a maximum operating pressure of 150 psi and a test pressure of 200 psi, and a minimum soil bearing strength of 2,000 psf. Operating pressures in excess of 150 psi or soils with less than 2,000 pound bearing strength will require special design.
- D. Before backfilling around thrust block, secure inspection of installation by ENGINEER.
2. PRODUCTS
- A. Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel as a base course without ENGINEER's permission.
- B. Backfill: Common fill, APWA Section 31 05 13. Maximum particle size 2-inches.
- C. Concrete: Class 4500 minimum, APWA Section 03 30 04.
- D. Reinforcement: Deformed, steel, ASTM A615. Give bars an epoxy coating at least 15 mils thick. Minimum stress yield strength of steel tie-down bars is 70,000 ksi.
- E. Grease: Non-oxide poly-FM.
3. EXECUTION
- A. Pour concrete against undisturbed soil. Concrete must be allowed to cure in thrust restraints for 5 days before pressurizing water lines or have additional approved thrust restraints installed before pressurizing the water line.
- B. Pipe Joints: Do not cover with concrete. Leave completely accessible.
- C. Grease: Apply grease to all buried metal surfaces. Wrap with polyethylene sheet and tape wrap.
- D. Locking restraint devices may be used in conjunction with concrete thrust blocking (at discretion of ENGINEER).
- E. Base Course and Backfill Placement: Maximum lift thickness is 8-inches before compaction. Compaction is 95 percent or greater relative to a modified proctor density, APWA Section 31 23 26.

NOTE  
WHEN UNDISTURBED EARTH IS UNAVAILABLE FOR THRUST BLOCKING, REFER TO APWA 562 FOR ALTERNATIVE THRUST BLOCKING METHOD.



Tie-down thrust restraints

Plan  
562  
April 1997

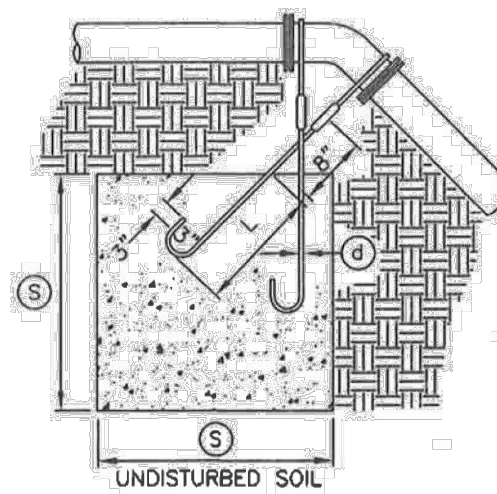


TYPE A RESTRAINT

FOR 11 1/4" - 22 1/2" VERTICAL BENDS

TABLE OF DIMENSIONS

PIPE SIZE NOMINAL DIAMETER - INCH	VERTICAL BEND IN DEGREES	CONCRETE BLOCKING IN CUBIC FEET	SIDE OF CUBE - FEET	S	Ø	L
4"	11 1/4"	8	2.0	5/8"	1.5	
	22 1/2"	15.6	2.5	5/8"	2.0	
6"	11 1/4"	15.6	2.5	5/8"	2.0	
	22 1/2"	34.3	3.25	5/8"	2.0	
8"	11 1/4"	27	3.0	5/8"	2.0	
	22 1/2"	64	4.0	5/8"	2.0	
12"	11 1/4"	64	4.0	5/8"	2.0	
	22 1/2"	125	5.0	3/4"	3.0	
16"	11 1/4"	107	4.25	7/8"	3.0	
	22 1/2"	216	6.0	7/8"	3.0	
20"	11 1/4"	138	5.17	1"	3.5	
	22 1/2"	334	6.94	1"	4.0	
24"	11 1/4"	240	6.22	1"	4.0	
	22 1/2"	476	7.81	1"	4.0	
30"	11 1/4"	369	7.17	1"	4.0	
	22 1/2"	733	9.02	1"	4.0	



TYPE B RESTRAINT

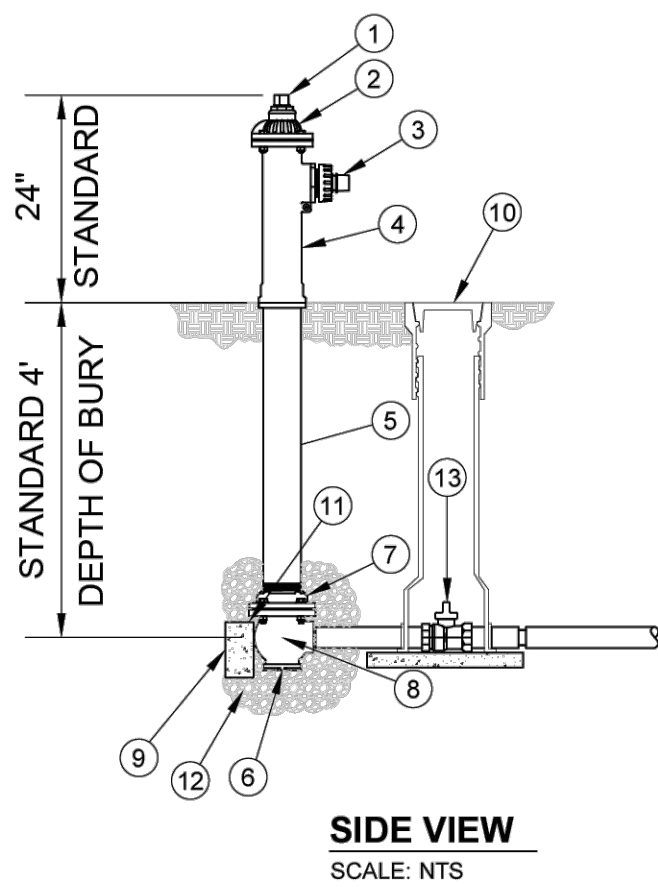
FOR 45° VERTICAL BENDS

TABLE OF DIMENSIONS

PIPE SIZE NOMINAL DIAMETER - INCH	VERTICAL BEND IN DEGREES	CONCRETE BLOCKING IN CUBIC FEET	SIDE OF CUBE - FEET	S	Ø	L
4"	45°	1	3.0	5/8"	2.0	
8"		2.37	4.0	5/8"	2.5	
8"		3.97	4.75	5/8"	3.0	
12"		9.04	6.25	5/8"	4.0	
16"		17.24	7.75	3/4"	4.0	
20"		26.52	9.21	3/4"	4.0	
24"		37.82	10.07	3/4"	4.0	
30"		58.26	11.63	3/4"	4.0	

382

562



GENERAL NOTES:

1. #2 ECLIPSE POST HYDRANT SHALL BE SELF-DRAINING, NON-FREEZING, COMPRESSION TYPE WITH 2-3/16" MAIN VALVE OPENING. INLET CONNECTION SHALL BE 2" FIP. OUTLET SHALL BE 2 1/2". STANDARD DEPTH OF BURY IS 4'.
2. ALL WATER FLOW SHALL PASS THRU A 3-1/2" FBE COATED STEEL PIPE AND CAST IRON TOP STOCK WATERWAY. ALL WORKING PARTS SHALL BE SERVICEABLE FROM ABOVE GROUND WITH NO DIGGING OR REPLACEMENT NEEDED.
3. HYDRANT SHALL BE SET IN 4 CUBIC FEET OF CRUSHED STONE TO ALLOW FOR PROPER DRAINAGE OF HYDRANT.
4. THE #2 ECLIPSE POST HYDRANT AS MANUFACTURED BY THE KUPFERLE FOUNDRY, ST. LOUIS MO. 63102.
5. ALL BLOW-OFF VALVES SHALL BE LOCATED OUT OF THE TRAVEL AREA IN THE STREET IN THE PARK STRIP AREA.
6. THIS VALVE SHALL BE USED FOR BOTH TEMPORARY AND PERMANENT BLOW-OFF LOCATIONS.

ITEM	ITEM / DESCRIPTION	NOTES
1	OPERATING SCREW	
2	TOP CAP	
3	SIDE CAP	
4	TOP STOCK	
5	3-1/2" FBE COATED STEEL PIPE	
6	DRAIN HOLE	
7	COUPLING	
8	INLET VALVE BODY	
9	UNDISTURBED EARTH	
10	VALVE BOX	
11	THRUST BLOCK	
12	CRUSHED ROCK	
13	HYDRANT SHUT-OFF VALVE	

(THIS DETAIL IS THE APPROVED CITY STANDARD)

REV	DATE	APPR	DESCRIPTION



GRANTSVILLE CITY  
ABOVE GRADE 2" BLOW-OFF INSTALLATION

6-56

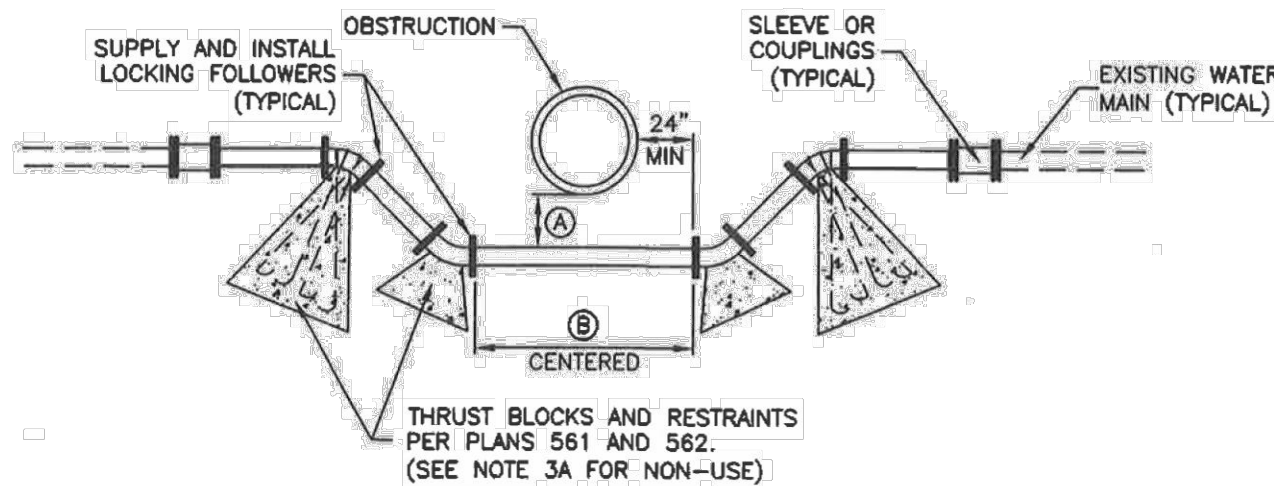
543.1



Water main line loop

Plan  
543.1  
March 2011

STYLE A



OBSTRUCTION	A	B
SEWER	18" MIN	20" MIN
OTHER	12" MIN	O.D. + 48"

MATTHEWS MEADOWS SUBDIVISION PHASE 2

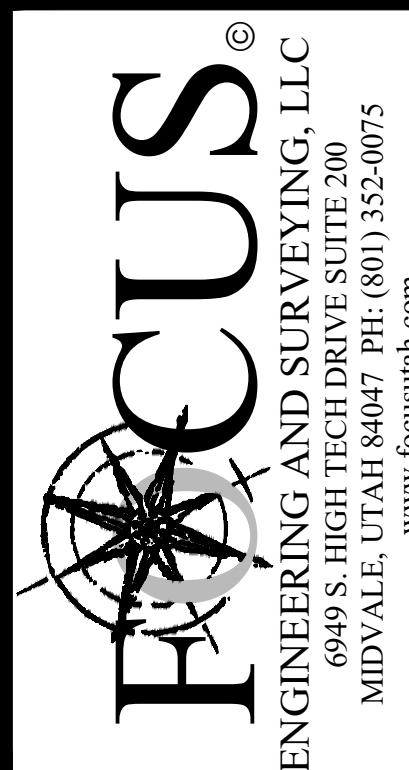
GRANTSVILLE, UT  
DETAILS

REVISION BLOCK	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		

DETAILS

Scale: N/A Drawn: MEC  
Date: 04/03/24 Job #: 23-0012  
Sheet:

D7





MODIFICATIONS TO APWA PLAN DETAILS

APWA PLAN NO.	GRANTSVILLE CITY MODIFICATION
205.1	USE TYPE "A" UNLESS APPROVED OTHERWISE.
205.1	2.C. CONCRETE SHALL HAVE A MINIMUM STRENGTH OF 4500 PSI.
211	2.C. CONCRETE SHALL HAVE A MINIMUM STRENGTH OF 4500 PSI.
213	2.C. CONCRETE SHALL HAVE A MINIMUM STRENGTH OF 4500 PSI.
215	2.C. CONCRETE SHALL HAVE A MINIMUM STRENGTH OF 4500 PSI.
216	2.C. CONCRETE SHALL HAVE A MINIMUM STRENGTH OF 4500 PSI.
221.1	2.C. CONCRETE SHALL HAVE A MINIMUM STRENGTH OF 4500 PSI.
221.2	2.C. CONCRETE SHALL HAVE A MINIMUM STRENGTH OF 4500 PSI.
225	2.C. CONCRETE SHALL HAVE A MINIMUM STRENGTH OF 4500 PSI.
231	THE MINIMUM CONCRETE THICKNESS SHALL BE 6" AND THE MINIMUM BASE COURSE THICKNEWW SHALL BE 6'.
231	THE MINIMUM WIDTH OF THE SIDEWALK SHALL BE 5'.
231	2.C. CONCRETE SHALL HAVE A MINIMUM STRENGTH OF 4500 PSI.
235.1	THE MINIMUM CONCRETE THICKNESS SHALL BE 6" AND THE MINIMUM BASE COURSE THICKNEWW SHALL BE 6'.
235.1	THE MINIMUM WIDTH OF THE SIDEWALK SHALL BE 5'.
235.1	2.D. CONCRETE SHALL HAVE A MINIMUM STRENGTH OF 4500 PSI.
235.2	2.D. CONCRETE SHALL HAVE A MINIMUM STRENGTH OF 4500 PSI.
235.3	2.D. CONCRETE SHALL HAVE A MINIMUM STRENGTH OF 4500 PSI.
235.4	2.D. CONCRETE SHALL HAVE A MINIMUM STRENGTH OF 4500 PSI.
236.1	THE MINIMUM CONCRETE THICKNESS SHALL BE 6" AND THE MINIMUM BASE COURSE THICKNEWW SHALL BE 6'.
236.1	THE MINIMUM WIDTH OF THE SIDEWALK SHALL BE 5'.
236.1	2.D. CONCRETE SHALL HAVE A MINIMUM STRENGTH OF 4500 PSI.
236.2	2.D. CONCRETE SHALL HAVE A MINIMUM STRENGTH OF 4500 PSI.
236.3	2.D. CONCRETE SHALL HAVE A MINIMUM STRENGTH OF 4500 PSI.
237	ALL EXPOSED CONCRETE SHALL BE 4500 PSI MINIMUM STRENGTH.
238	GRANTSVILLE CITY IS REQUIRING TYPE "T".
245	2.B. BACKFILL SHALL BE A-1-a OR AS APPROVED BY THE CITY.
256.2	ALL EXPOSED CONCRETE SHALL BE 4500 PSI MINIMUM STRENGTH.
274	2.C. CONCRETE SHALL HAVE A MINIMUM STRENGTH OF 4500 PSI.
275	2.A. CONCRETE SHALL HAVE A MINIMUM STRENGTH OF 4500 PSI.
275	REBAR HOOP SHALL BE EPOXY COATED.
292	MATCH GRANTSVILLE CITY STANDARD.
315.1	ALL EXPOSED CONCRETE SHALL BE 4500 PSI MINIMUM STRENGTH.
315.1	2.D. REBAR SHALL BE EPOXY COATED.

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APWA PLAN NO.	GRANTSVILLE CITY MODIFICATION
315.1	THERE SHALL BE A MINIMUM OF 24" OF BASE COURSE UNDER THE STRUCTURE FOR THE DISTANCE OF 24" BEYOND THE BASE OF THE STRUCTURE UNLESS APPROVED OTHERWISE BY GRANTSVILLE CITY.
315.1	2.B. BACKFILL AND BASE COURSE SHALL BE A-1-a OR AS APPROVED BY THE CITY.
315.2	ALL EXPOSED CONCRETE SHALL BE 4500 PSI MINIMUM STRENGTH.
315.2	2.D. REBAR SHALL BE EPOXY COATED.
315.2	THERE SHALL BE A MINIMUM OF 24" OF BASE COURSE UNDER THE STRUCTURE FOR THE DISTANCE OF 24" BEYOND THE BASE OF THE STRUCTURE UNLESS APPROVED OTHERWISE BY GRANTSVILLE CITY.
315.2	2.B. BACKFILL SHALL BE A-1-a OR AS APPROVED BY THE CITY.
316	ALL EXPOSED CONCRETE SHALL BE 4500 PSI MINIMUM STRENGTH.
316	2.D. REBAR SHALL BE EPOXY COATED.
316	THERE SHALL BE A MINIMUM OF 24" OF BASE COURSE UNDER THE STRUCTURE FOR THE DISTANCE OF 24" BEYOND THE BASE OF THE STRUCTURE UNLESS APPROVED OTHERWISE BY GRANTSVILLE CITY.
316	2.B. BACKFILL AND BASE COURSE SHALL BE A-1-a OR AS APPROVED BY THE CITY.
317	ALL EXPOSED CONCRETE SHALL BE 4500 PSI MINIMUM STRENGTH.
317	2.D. REBAR SHALL BE EPOXY COATED.
317	THERE SHALL BE A MINIMUM OF 24" OF BASE COURSE UNDER THE STRUCTURE FOR THE DISTANCE OF 24" BEYOND THE BASE OF THE STRUCTURE UNLESS APPROVED OTHERWISE BY GRANTSVILLE CITY.
320	DEBRIS GRATE INLET SHALL BE GALVANIZED
322	ALL EXPOSED CONCRETE SHALL BE 4500 PSI MINIMUM STRENGTH.
322	2.D. REBAR SHALL BE EPOXY COATED.
322	THERE SHALL BE A MINIMUM OF 24" OF BASE COURSE UNDER THE STRUCTURE FOR THE DISTANCE OF 24" BEYOND THE BASE OF THE STRUCTURE UNLESS APPROVED OTHERWISE BY GRANTSVILLE CITY.
322	2.B. BACKFILL SHALL BE A-1-a OR AS APPROVED BY THE CITY.
323.3	2.B. BACKFILL SHALL BE A-1-a OR AS APPROVED BY THE CITY.
331.1	ALL EXPOSED CONCRETE SHALL BE 4500 PSI MINIMUM STRENGTH.
331.1	2.D. REBAR SHALL BE EPOXY COATED.
331.1	THERE SHALL BE A MINIMUM OF 24" OF BASE COURSE UNDER THE STRUCTURE FOR THE DISTANCE OF 24" BEYOND THE BASE OF THE STRUCTURE UNLESS APPROVED OTHERWISE BY GRANTSVILLE CITY.
331.1	2.B. BACKFILL SHALL BE A-1-a OR AS APPROVED BY THE CITY.
331.2	ALL EXPOSED CONCRETE SHALL BE 4500 PSI MINIMUM STRENGTH.
331.2	2.D. REBAR SHALL BE EPOXY COATED.
331.2	THERE SHALL BE A MINIMUM OF 24" OF BASE COURSE UNDER THE STRUCTURE FOR THE DISTANCE OF 24" BEYOND THE BASE OF THE STRUCTURE UNLESS APPROVED OTHERWISE BY GRANTSVILLE CITY.

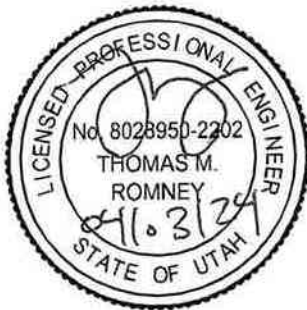
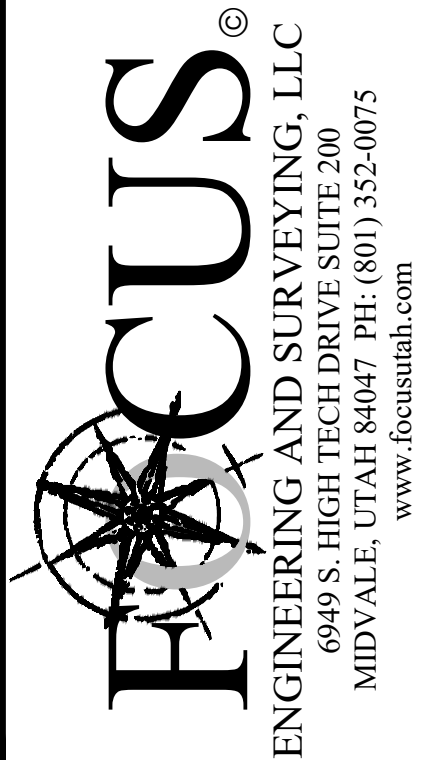
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APWA PLAN NO.	GRANTSVILLE CITY MODIFICATION
331.2	2.B. BACKFILL SHALL BE A-1-a OR AS APPROVED BY THE CITY.
331.3	ALL EXPOSED CONCRETE SHALL BE 4500 PSI MINIMUM STRENGTH.
331.3	2.D. REBAR SHALL BE EPOXY COATED.
331.3	THERE SHALL BE A MINIMUM OF 24" OF BASE COURSE UNDER THE STRUCTURE FOR THE DISTANCE OF 24" BEYOND THE BASE OF THE STRUCTURE UNLESS APPROVED OTHERWISE BY GRANTSVILLE CITY.
331.3	2.B. BACKFILL SHALL BE A-1-a OR AS APPROVED BY THE CITY.
332	ALL EXPOSED CONCRETE SHALL BE 4500 PSI MINIMUM STRENGTH.
332	2.D. REBAR SHALL BE EPOXY COATED.
332	THERE SHALL BE A MINIMUM OF 24" OF BASE COURSE UNDER THE STRUCTURE FOR THE DISTANCE OF 24" BEYOND THE BASE OF THE STRUCTURE UNLESS APPROVED OTHERWISE BY GRANTSVILLE CITY.
332	ALL EXPOSED CONCRETE SHALL BE 4500 PSI MINIMUM STRENGTH.
332	2.B. BACKFILL SHALL BE A-1-a OR AS APPROVED BY THE CITY.
335	ALL EXPOSED CONCRETE SHALL BE 4500 PSI MINIMUM STRENGTH.
335	2.B. BACKFILL SHALL BE A-1-a OR AS APPROVED BY THE CITY.
335	2.D. REBAR SHALL BE EPOXY COATED.
341.1	ALL EXPOSED CONCRETE SHALL BE 4500 PSI MINIMUM STRENGTH.
341.1	THERE SHALL BE A MINIMUM OF 24" OF BASE COURSE UNDER THE STRUCTURE FOR THE DISTANCE OF 24" BEYOND THE BASE OF THE STRUCTURE UNLESS APPROVED OTHERWISE BY GRANTSVILLE CITY
341.1	2.B. BACKFILL SHALL BE A-1-a OR AS APPROVED BY THE CITY.
341.2	ALL EXPOSED CONCRETE SHALL BE 4500 PSI MINIMUM STRENGTH.
341.2	THERE SHALL BE A MINIMUM OF 24" OF BASE COURSE UNDER THE STRUCTURE FOR THE DISTANCE OF 24" BEYOND THE BASE OF THE STRUCTURE UNLESS APPROVED OTHERWISE BY GRANTSVILLE CITY
341.2	2.B. BACKFILL SHALL BE A-1-a OR AS APPROVED BY THE CITY.
362	ALL EXPOSED CONCRETE SHALL BE 4500 PSI MINIMUM STRENGTH.
381	2.B. BACKFILL SHALL BE A-1-a OR AS APPROVED BY THE CITY.
382	PIPE ZONE MATERIAL FOR SANITARY SEWER PIPE SALL BE ¾" DRAIN ROCK. DETAIL – SEWER PIPE SHALL BE SDR-35.
382	2.B. BACKFILL SHALL BE A-1-a OR AS APPROVED BY THE CITY.
411	ALL EXPOSED CONCRETE SHALL BE 4500 PSI MINIMUM STRENGTH.
411	THERE SHALL BE A MINIMUM OF 24" OF BASE COURSE UNDER THE STRUCTURE FOR THE DISTANCE OF 24" BEYOND THE BASE OF THE STRUCTURE UNLESS APPROVED OTHERWISE BY GRANTSVILLE CITY.

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APWA PLAN NO.	GRANTSVILLE CITY MODIFICATION
411	2.B. BACKFILL SHALL BE A-1-a OR AS APPROVED BY THE CITY.
413	ALL EXPOSED CONCRETE SHALL BE 4500 PSI MINIMUM STRENGTH.
431	2.B. BACKFILL SHALL BE A-1-a OR AS APPROVED BY THE CITY. DETAIL - SEWER PIPE SHALL BE SDR-35 PIPE MATERIAL.
432	2.B. BACKFILL SHALL BE A-1-a OR AS APPROVED BY THE CITY. DETAIL - SEWER PIPE SHALL BE SDR-35 PIPE MATERIAL.
441	THERE SHALL BE A MINIMUM OF 24" OF BASE COURSE OF A-1-a UNDER THE STRUCTURE FOR THE DISTANCE OF 24" BEYOND THE BASE OF THE STRUCTURE UNLESS APPROVED OTHERWISE BY GRANTSVILLE CITY.
505	ALL EXPOSED CONCRETE SHALL BE 4500 PSI MINIMUM STRENGTH.
505	THERE SHALL BE A MINIMUM OF 24" OF BASE COURSE UNDER THE STRUCTURE FOR THE DISTANCE OF 24" BEYOND THE BASE OF THE STRUCTURE UNLESS APPROVED OTHERWISE BY GRANTSVILLE CITY.
505	2.B. BACKFILL SHALL BE A-1-a OR AS APPROVED BY THE CITY.
511	REFER TO GRANTSVILLE CITY STANDARD DETAIL.
521	REFER TO GRANTSVILLE CITY STANDARD DETAIL.
522	REFER TO GRANTSVILLE CITY STANDARD DETAIL.
523	REFER TO GRANTSVILLE CITY STANDARD DETAIL.
525	REFER TO GRANTSVILLE CITY STANDARD DETAIL.
527	REFER TO GRANTSVILLE CITY STANDARD DETAIL.
529	REFER TO GRANTSVILLE CITY STANDARD DETAIL.
541	REFER TO GRANTSVILLE CITY STANDARD DETAIL.
542	REFER TO GRANTSVILLE CITY STANDARD DETAIL.
543.1	2.B. BACKFILL SHALL BE A-1-a WITH 18" SEPARATION BETWEEN UNTILITIES.
543.2	2.B. BACKFILL SHALL BE A-1-a WITH 18" SEPARATION BETWEEN UNTILITIES.
546	6" LATERAL ON FH
551	REFER TO GRANTSVILLE CITY STANDARD DETAIL.
552	REFER TO GRANTSVILLE CITY STANDARD DETAIL.
571	REFER TO GRANTSVILLE CITY STANDARD DETAIL.
572	REFER TO GRANTSVILLE CITY STANDARD DETAIL.
573	REFER TO GRANTSVILLE CITY STANDARD DETAIL.
574	REFER TO GRANTSVILLE CITY STANDARD DETAIL.
575	REFER TO GRANTSVILLE CITY STANDARD DETAIL.
681	ADD 1" PVP PIPE FROM BOTTOM OF ROOT BALL TO SURFACE FOR ROOT WATERING. WRAP BOTTOM OF PIPE WITH CLOTH AND ½ CUBIC FOOT DRAIN ROCK.

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MATTHEWS MEADOWS SUBDIVISION PHASE 2  
GRANTSVILLE, UT  
DETAILS

REVISION BLOCK		DESCRIPTION
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DETAILS

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GRANTSVILLE CITY GENERAL NOTES

- ALL WORK DONE OR IMPROVEMENTS INSTALLED WITHIN GRANTSVILLE CITY INCLUDING BUT NOT LIMITED TO: EXCAVATION, CONSTRUCTION, ROADWORK AND UTILITIES SHALL CONFORM TO THE GRANTSVILLE CITY CONSTRUCTION STANDARDS AND SPECIFICATIONS, CITY MUNICIPAL CODE, THE LATEST EDITION OF THE APWA MANUAL OF STANDARD SPECIFICATIONS AND MANUAL OF STANDARD PLANS, THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND ANY STATE OR FEDERAL REGULATIONS AND PERMIT REQUIREMENTS OF VARIOUS GOVERNING BODIES. THE CONTRACTOR IS RESPONSIBLE TO HAVE A COPY OF THESE SPECIFICATIONS AND TO KNOW AND CONFORM TO THE APPROPRIATE CODES, REGULATIONS, DRAWINGS, STANDARDS AND SPECIFICATIONS.
- THE EXISTENCE AND LOCATION OF ANY OVERHEAD OR UNDERGROUND UTILITY LINES, PIPES, OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A RESEARCH OF THE AVAILABLE RECORDS. EXISTING UTILITIES ARE LOCATED ON PLANS ONLY FOR THE CONVENIENCE OF THE CONTRACTOR. THE CONTRACTOR SHALL BEAR FULL RESPONSIBILITY FOR THE PROTECTION OF UTILITIES AND THE ENGINEER BEARS NO RESPONSIBILITY FOR UTILITIES NOT SHOWN ON THE PLANS OR NOT IN THE LOCATION SHOWN ON THE PLANS. THIS INCLUDES ALL SERVICE LATERALS OF ANY KIND. THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, LOCATE ALL UNDERGROUND AND OVERHEAD INTERFERENCES, WHICH MAY AFFECT HIS OPERATION DURING CONSTRUCTION AND SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE OF THE SAME. THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING NEAR OVERHEAD UTILITIES SO AS TO SAFELY PROTECT ALL PERSONNEL AND EQUIPMENT, AND SHALL BE RESPONSIBLE FOR ALL COST AND LIABILITY IN CONNECTION THEREWITH.
- THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES NECESSARY TO PROTECT EXISTING UTILITY LINES, STRUCTURES, SURVEY MONUMENTS AND STREET IMPROVEMENTS WHICH ARE TO REMAIN IN PLACE, FROM DAMAGE, AND ALL SUCH IMPROVEMENTS OR STRUCTURES DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR REPLACED SATISFACTORY TO THE CITY ENGINEER AND OWNING UTILITY COMPANY AT THE EXPENSE OF THE CONTRACTOR.
- ALL CONSTRUCTION SHALL BE AS SHOWN ON THESE PLANS, ANY REVISIONS SHALL HAVE THE PRIOR WRITTEN APPROVAL OF THE CITY ENGINEER AND PUBLIC WORKS DIRECTOR.
- PERMITS ARE REQUIRED FOR ANY WORK IN THE PUBLIC WAY. THE CONTRACTOR SHALL SECURE ALL PERMITS AND INSPECTIONS REQUIRED FOR THIS CONSTRUCTION.
- CURB, GUTTER, AND SIDEWALK, REQUIRED TO BE UNACCEPTABLE PER CITY STANDARDS AND APWA SHALL BE REMOVED AND REPLACED.
- CONTRACTOR SHALL PROVIDE ALL NECESSARY HORIZONTAL AND VERTICAL TRANSITIONS BETWEEN NEW CONSTRUCTION AND EXISTING SURFACES TO PROVIDE FOR PROPER DRAINAGE AND FOR INGRESS AND EGRESS TO NEW CONSTRUCTION. THE EXTENT OF TRANSITIONS TO BE AS SHOWN ON PLANS.
- ANY SURVEY MONUMENTS DISTURBED SHALL BE REPLACED AND ADJUSTED PER TDOELE COUNTY SURVEYORS REQUIREMENTS.
- ALL PRIVACY WALLS, NEW OR EXISTING, ARE ONLY SHOWN ON CIVIL PLANS FOR THE PURPOSE OF REVIEWING GRADING RELATIONSHIPS; FLOOD CONTROL AND SIGHT DISTANCE AT INTERSECTIONS. ALL WALLS SHALL HAVE A MINIMUM 2 FT X 2 FT X 30 INCH DEEP SPOT FOOTINGS. BOTTOM OF ALL FOOTINGS ON ALL WALLS SHALL BE A MINIMUM OF 30 INCHES BELOW FINISHED GRADE. WALLS GREATER THAN 6 FEET REQUIRE A SEPARATE PERMIT AND INSPECTION BY THE BUILDING DEPARTMENT.
- ALL CONSTRUCTION MATERIALS PER APWA MUST BE SUBMITTED AND APPROVED BY THE CITY ENGINEER PRIOR TO THE PLACEMENT OF ASPHALT WITHIN CITY RIGHT OF WAY. GRANTSVILLE PUBLIC WORKS WILL APPROVE PIPE ZONE MATERIAL TO BE PLACED.
- REQUEST FOR INSPECTION BY THE GRANTSVILLE CITY ENGINEERING DEPT. SHALL BE MADE BY THE CONTRACTOR AT LEAST 48 HOURS BEFORE THE INSPECTION SERVICES WILL BE REQUIRED.
- WORK IN PUBLIC WAY, ONCE BEGUN, SHALL BE PROSECUTED TO COMPLETION WITHOUT DELAY AS TO PROVIDE MINIMUM INCONVENIENCE TO ADJACENT PROPERTY OWNERS AND TO THE TRAVELING PUBLIC. PLEASE SEE CODE 17 GENERAL PROVISIONS FOR MORE DETAILS.
- THE CONTRACTOR SHALL TAKE ALL NECESSARY AND PROPER PRECAUTIONS TO PROTECT ADJACENT PROPERTIES FROM ANY AND ALL DAMAGE THAT MAY OCCUR FROM STORM WATER RUNOFF AND/OR DEPOSITION OF DEBRIS RESULTING FROM ANY AND ALL WORK IN CONNECTION WITH CONSTRUCTION.
- POWER POLES AND/OR OTHER EXISTING FACILITIES NOT IN PROPER LOCATION BASED ON PROPOSED IMPROVEMENTS SHOWN HEREON WILL BE RELOCATED AT NO EXPENSE TO THE GRANTSVILLE CITY. POWER LINES AND ALL OTHER AERIAL UTILITIES ARE TO BE BURIED AND POLES REMOVED AS DETERMINED BY THE CITY ENGINEER.
- CURB AND GUTTER WITH A GRADE OF LESS THAN FOUR-TENTHS OF ONE PERCENT SHALL BE CONSTRUCTED BY FORMING. EACH JOINT SHALL BE CHECKED FOR A GRADE PRIOR TO CONSTRUCTION AND WATER TESTED AS SOON AS POSSIBLE AFTER CONSTRUCTION.
- CONTRACTOR TO FOLLOW GRANTSVILLE CITY NOISE ORDINANCE STANDARDS CODE ORDINANCE 2018-19
- CONTRACTORS ARE RESPONSIBLE FOR ALL OSHA REQUIREMENTS ON THE PROJECT SITE.
- A UPDES (UTAH POLLUTANT DISCHARGE ELIMINATION SYSTEM) PERMIT IS REQUIRED FOR ALL CONSTRUCTION ACTIVITIES AS PER STATE LAW AS WELL AS PROVIDING A STORM WATER POLLUTION PREVENTION PLAN TO THE CITY.
- ALL CITY MAINTAINED UTILITIES INCLUDING; WATERLINE, FIRE HYDRANTS, STREETLIGHT WIRING, AND STORM DRAIN MUST BE IN PUBLIC RIGHT OF WAY OR IN RECORDED EASEMENTS.
- CONTRACTOR SHALL WORK GRANTSVILLE CITY REGULAR WORKING HOURS OF MONDAY THROUGH FRIDAY 7:00 AM TO 4:00 PM
- PRIOR TO 90% BOND RELEASE, A LEGIBLE AS-BUILT DRAWING MUST BE SUBMITTED TO THE GRANTSVILLE CITY STAMPED AND SIGNED BY A PROFESSIONAL ENGINEER. AS-BUILTS MUST SHOW ALL CHANGES AND ACTUAL FIELD LOCATIONS OF STORM DRAINAGE, WATERLINES, IRRIGATION, STREET LIGHTING, AND POWER. AS-BUILTS WILL BE HELD TO THE SAME STANDARD AS APPROVED DESIGN DRAWINGS, NO "REDLINED PLANS" ALLOWED. IN THE ABSENCE OF CHANGES, COPIES OF THE APPROVED DRAWINGS WILL BE REQUIRED STATING "INSTALLED AS PER DRAWINGS". AS-BUILT DRAWINGS FOR NEW DEVELOPMENTS SHALL BE SUBMITTED TO THE CITY IN THE FOLLOWING FORMATS AND QUANTITIES PRIOR TO THE 90% BOND RELEASE: 1 .DXF COPY, 1 .PDF COPY, AND 1 GIS SHAPE FILE CONTAINING THE SAME.
- FILTER FABRIC WRAPPED AROUND AN INLET GRATE IS NOT AN ACCEPTABLE INLET SEDIMENT BARRIER. SEE GRANTSVILLE CITY CONSTRUCTION STANDARDS AND SPECIFICATIONS FOR DETAILS OF APPROVED STORM WATER BMPs WHICH SPECIFICALLY STATES THE UTILIZATION OF AN OIL WATER SNOUT SEPARATOR.
- ASPHALT PAVING IS NOT ALLOWED WITHOUT A WRITTEN EXCEPTION FROM THE ENGINEERING DEPARTMENT AND PUBLIC WORKS DEPARTMENT BELOW AN AMBIENT TEMPERATURE OF 50 DEGREES AND RISING.
- TO ENSURE PROPER PLANTING, PROTECTION AND IRRIGATION OF TREES, MITIGATING RISK OF TREE FAILURE OR FUTURE DAMAGE, TO INFRASTRUCTURE, CONTRACTORS ARE REQUIRED TO FOLLOW THE STANDARDS AND SPECIFICATIONS OF THE ISA - INTERNATIONAL SOCIETY OF ARBORICULTURE.
- WHEN A PROPOSED DEVELOPMENT BORDERS A COLLECTOR, MINOR COLLECTOR OR ARTERIAL STREET AND IS REQUIRED TO CONSTRUCT COLLECTOR STREET FENCING ALONG THE BACK OF SIDEWALK, THE DEVELOPMENT SHALL ALSO BE REQUIRED PUT IN A CONCRETE MOW STRIP FROM THE BACK OF SIDEWALK TO UNDERNEATH THE FENCE PANELS. CONCRETE MOW STRIPS SHALL ALSO BE REQUIRED BETWEEN THE SIDEWALK AND FENCING ALONG THE REAR OF DOUBLE FRONTAGE LOTS.
- CONCRETE FOR ALL SURFACE IMPROVEMENTS INCLUDING BUT NOT LIMITED TO; SIDEWALK, DRIVEWAY ENTRANCES, PEDESTRIAN RAMPS, CURB AND GUTTER, WATER WAYS, MANHOLE, VAULT AND VALVE COLLARS, AND ANY OTHER CAST IN PLACE SURFACE CONCRETE FEATURES SHALL BE CONSTRUCTED WITH MINIMUM 4,500 PSI CONCRETE.
- CULINARY WATER AND SEWER SERVICE LATERALS SHALL BE MARKED ON THE TOP BACK OF CURB AND LIP OF CURB AT THEIR ACTUAL LOCATION OF CROSSING THE CURB AND GUTTER. PINS OR STAMPS SHALL BE USED AND MUST BE INSTALLED WHILE THE CONCRETE IS STILL WET AND WILL READILY ACCEPT THE MARKER. GRINDING MARKING DUE TO DRY CEMENT IS NOT ALLOWED.

GRANTSVILLE CITY TRAFFIC NOTES

- WHEN A DESIGNATED "SAFE ROUTE TO SCHOOL" IS ENCROACHED UPON BY A CONSTRUCTION WORK ZONE THE SAFE ROUTE SHALL BE MAINTAINED IN A MANNER ACCEPTABLE TO GRANTSVILLE CITY.
- IF THE IMPROVEMENTS NECESSITATE THE OBLITERATION, TEMPORARY OBSTRUCTION, TEMPORARY REMOVAL OR RELOCATION OF ANY EXISTING TRAFFIC PAVEMENT MARKING, SUCH PAVEMENT MARKING SHALL BE RESTORED OR REPLACED WITH LIKE MATERIALS TO THE SATISFACTION OF THE CITY ENGINEER, PUBLIC WORKS DIRECTOR OR DESIGNEE.
- THE STREET SIGN CONTRACTOR SHALL OBTAIN STREET NAMES AND BLOCK NUMBERING FROM THE PLANNING DEPARTMENT PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL PERMANENT SIGNS SHOWN ON THE PLANS. STREET NAME SIGNS SHALL CONFORM IN THEIR ENTIRETY TO CURRENT CITY STANDARDS AND THE LATEST MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) MANUAL. ALL OTHER SIGNS SHALL BE STANDARD SIZE UNLESS OTHERWISE SPECIFIED ON THE PLANS. ALL SIGN POSTS SHALL BE INSTALLED IN ACCORDANCE WITH THE CURRENT CITY STANDARDS AND THE LATEST MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) MANUAL.
- ALL PERMANENT TRAFFIC CONTROL DEVICES CALLED FOR HEREON SHALL BE IN PLACE AND IN FINAL POSITION PRIOR TO ALLOWING ANY PUBLIC TRAFFIC onto THE PORTIONS OF THE ROAD(S) BEING IMPROVED HEREUNDER, REGARDLESS OF THE STATUS OF COMPLETION OF PAVING OR OTHER OFF-SITE IMPROVEMENTS CALLED FOR PER APPROVED CONSTRUCTION DRAWINGS UNLESS APPROVED BY THE CITY ENGINEER & PUBLIC WORKS DIRECTOR.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING UTAH TRANSIT AUTHORITY (UTA) IF APPLICABLE, IF THE CONSTRUCTION INTERRUPTS OR RELOCATES A BUS STOP OR HAS AN ADVERSE EFFECT ON BUS SERVICE ON THAT STREET TO ARRANGE FOR TEMPORARY RELOCATION OF STOP.
- BEFORE ANY WORK IS STARTED IN THE RIGHT-OF-WAY, THE CONTRACTOR SHALL INSTALL ALL ADVANCE WARNING SIGNS FOR THE CONSTRUCTION ZONE. THE CONTRACTOR SHALL INSTALL TEMPORARY STOP SIGNS AT ALL NEW STREET ENCROACHMENTS INTO EXISTING PUBLIC STREETS. ALL CONSTRUCTION SIGNING, BARRICADING, AND TRAFFIC DELINEATION SHALL CONFORM TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) PER THE CURRENT EDITION ADOPTED BY UDOT AND BE APPROVED BY THE GRANTSVILLE CITY BEFORE CONSTRUCTION BEGINS. TRAFFIC CONTROL PLANS SHALL BE SUBMITTED AS PART OF THE ENGINEERING CONSTRUCTION PACKAGE AND APPROVED BY THE GRANTSVILLE CITY ENGINEER AND PUBLIC WORKS DIRECTOR.
- ALL SIGNS LARGER THAN 36" X 36" OR 1296 SQUARE INCHES PER SIGN POLE SHALL BE MOUNTED ON A SLIP BASE SYSTEM PER UDOT STANDARD DRAWING SN 108 (DETAIL DRAWING ATTACHED TO STANDARD DRAWINGS) WITH A "Z" BAR BACKING. SIGNS OF THIS SIZE ARE NOT ALLOWED TO BE MOUNTED ON A YIELDING POLE.
- SIGN COMPONENTS SUCH AS SHEETING, EC FILM, INKS, LETTERS AND BORDERS ARE ALL REQUIRED TO BE FROM THE SAME MANUFACTURER. ONLY EC FILM MAY BE USED TO ACHIEVE COLOR. VINYL EC FILM IS NOT ACCEPTED.
- ALL NEW ROUNDABOUTS, CROSSWALKS, STOP BARS AND LEGENDS SHALL BE INSTALLED WITH PAINT AND GLASS BEAD.
- PAVING ASPHALT BINDER GRADE SHALL BE PG 58-28 UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER. ASPHALT AGGREGATE SIZE SHALL BE 1/2 INCH FOR RESIDENTIAL AND COLLECTOR ROADS. NO MORE THAN 15% RAP (RECLAIMED ASPHALT PAVEMENT) BY WEIGHT WILL BE ALLOWED IN THE ASPHALT MIX DESIGN FOR THE PAVING OF PUBLIC AND PRIVATE STREETS. UP TO THE 15 PERCENT WILL BE ALLOWED WITH NO CHANGE IN THE SPECIFIC BINDER GRADE. THE ASPHALT MIX DESIGN SHALL HAVE NO MORE THAN 3% AIR VOIDS.
- POTHOLING: ALL POTHOLES MUST BE SAW CUT SQUARE AND HAVE A MINIMUM SIZE OF 1 SQUARE FOOT. WHEN REPAIRING A POTHOLE, SAND OR PEA GRAVEL MEETING GRANTSVILLE CITY STANDARDS SHALL BE PLACED OVER THE EXPOSED UTILITY TO A DEPTH OF 6 INCHES. FOLLOWING THE PEA GRAVEL WILL BE FLOWABLE FILL UP TO 1 INCH BELOW THE BOTTOM EDGE OF THE EXISTING ASPHALT. THE REMAINING PORTION OF THE HOLE SHALL BE FILLED WITH ASPHALT, WHICH WILL HAVE AN OVERALL THICKNESS OF THE EXISTING ASPHALT PLUS 1 INCH.
- ALL FILL WITHIN THE PUBLIC RIGHT OF WAY SHALL BE A-1-A TO A-3, WITH THE EXCEPTION OF TOP SOIL IN THE PARK STRIP FOR LANDSCAPING AND TRENCH BACKFILL. TRENCH BACKFILL MATERIAL UNDER PAVEMENTS OR SURFACE IMPROVEMENTS SHALL BE CLEAN, NONCLUMPING, GRANULAR AND FLOWABLE, 2" MINUS, A-1-A TO A-2-7 SOILS ACCORDING TO AASHTO 145 SOIL CLASSIFICATION SYSTEM. LIME TREATED FLOWABLE FILLS, IF APPROVED, SHALL HAVE A 28-DAY STRENGTH OF 65 PSI. 16. ALL TRAFFIC ROAD CLOSURES INVOLVING 1 OR MORE LANES OF TRAFFIC MUST RECEIVE PRIOR APPROVAL FROM THE CITY ENGINEER, PUBLIC WORKS DIRECTOR OR HIS/HER REPRESENTATIVE. VMS PCMS BOARDS MUST BE PLACED A MINIMUM OF 7 DAYS IN ADVANCE OF ANY LANE CLOSURE ON COLLECTOR, MINOR COLLECTOR OR ARTERIAL STREET. VMS PCMS BOARDS MUST ALSO BE PLACED IN ADVANCE OF ANY LANE CLOSURES ON A SUBDIVISION STREET PER THE CITY ENGINEER'S DIRECTION.
- ROUNDABOUTS, INCLUDING THEIR INGRESS AND EGRESS, SHALL BE CONSTRUCTED WITH CONCRETE PAVEMENT. ENGINEER SHALL DESIGN CROSS SECTION AND SUBMIT TO THE CITY FOR REVIEW AND APPROVAL.

GRANTSVILLE CITY GRADING NOTES

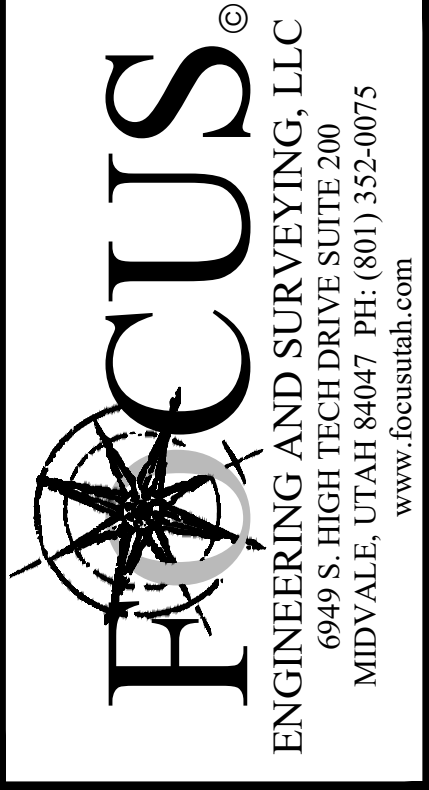
- IN THE EVENT THAT ANY UNFORESEEN CONDITIONS NOT COVERED BY THESE NOTES ARE ENCOUNTERED DURING GRADING OPERATIONS, THE OWNER AND CITY ENGINEER SHALL BE IMMEDIATELY NOTIFIED FOR DIRECTION.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM ALL NECESSARY CUTS AND FILLS WITHIN THE LIMITS OF THIS PROJECT AND THE RELATED OFF-SITE WORK, SO AS TO GENERATE THE DESIRED SUBGRADE, FINISH GRADES AND SLOPES SHOWN.
- CONTRACTOR SHALL TAKE FULL RESPONSIBILITY FOR ALL EXCAVATION. ADEQUATE SHORING SHALL BE DESIGNED AND PROVIDED BY THE CONTRACTOR TO PREVENT UNDERMINING OF ANY ADJACENT FEATURES OR FACILITIES AND/OR CAVING OF THE EXCAVATION.
- THE CONTRACTOR IS WARNED THAT AN EARTHWORK BALANCE WAS NOT NECESSARILY THE INTENT OF THIS PROJECT. ANY ADDITIONAL MATERIAL REQUIRED OR LEFTOVER MATERIAL FOLLOWING EARTHWORK OPERATIONS BECOMES THE RESPONSIBILITY OF THE CONTRACTOR.
- CONTRACTOR SHALL GRADE THE PAVEMENT AREA SUBGRADE TO THE LINES (HORIZONTAL) AND ELEVATIONS (VERTICAL) SHOWN ON THE PLANS WITHIN A TOLERANCE OF 0.1 + TO 0.1 -.
- ALL CUT AND FILL SLOPES SHALL BE PROTECTED UNTIL EFFECTIVE EROSION CONTROL HAS BEEN ESTABLISHED.
- THE USE OF POTABLE WATER WITHOUT A SPECIAL PERMIT FOR BUILDING OR CONSTRUCTION PURPOSES INCLUDING CONSOLIDATION OF BACKFILL OR DUST CONTROL IS PROHIBITED. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FOR CONSTRUCTION WATER FROM GRANTSVILLE CITY ENGINEERING AND UTILITIES DEPARTMENT.
- THE CONTRACTOR SHALL MAINTAIN THE STREETS, SIDEWALKS AND ALL OTHER PUBLIC RIGHT-OF WAY IN A CLEAN, SAFE AND USABLE CONDITION. ALL SPILLS OF SOIL, ROCK OR CONSTRUCTION DEBRIS SHALL BE PROMPTLY REMOVED FROM THE PUBLICLY OWNED PROPERTY DURING CONSTRUCTION AND UPON COMPLETION OF THE PROJECT. ALL ADJACENT PROPERTY, PRIVATE OR PUBLIC SHALL BE MAINTAINED IN A CLEAN, SAFE AND USABLE CONDITION.
- IN THE EVENT THAT ANY TEMPORARY CONSTRUCTION ITEM IS REQUIRED THAT IS NOT SHOWN ON THESE DRAWINGS, THE DEVELOPER AGREES TO PROVIDE AND INSTALL SUCH ITEM AT HIS OWN EXPENSE AND AT THE DIRECTION OF THE CITY ENGINEER. TEMPORARY CONSTRUCTION INCLUDES DITCHES, BERMS, ROAD SIGNS AND BARRICADES, ETC.
- ALL GRADING WORK SHALL CONFORM TO THE SOILS REPORT AS PREPARED BY THE SOILS ENGINEER AND APPROVED BY THE CITY ENGINEER, AND AS SHOWN ON THESE PLANS.
- ALL QUALITY CONTROL TESTING SHALL BE PERFORMED BY AN INDEPENDENT LICENSED AND CERTIFIED THIRD-PARTY TESTING SERVICE.

GRANTSVILLE CITY FIRE DEPARTMENT NOTES

- ON ANY NEW HOME OR BUILDING INSTALLATION, ACCESSIBLE FIRE HYDRANTS SHALL BE INSTALLED BEFORE COMBUSTIBLE CONSTRUCTION COMMENCES AND SAID FIRE HYDRANTS SHALL BE IN GOOD WORKING ORDER WITH AN ADEQUATE WATER SUPPLY.
- CONTRACTOR SHALL CALL THE PUBLIC WORKS DEPARTMENT AND ENGINEERING DEPARTMENT FOR UNDERGROUND INSPECTION, PRESSURE AND FLUSH VERIFICATION OF ALL FIRE HYDRANTS AND FIRE LINES BEFORE BACK FILLING.
- PAINTING OF THE CURBS AND HYDRANT AND ANY WORK NECESSARY FOR PROTECTION OF HYDRANTS FROM PHYSICAL DAMAGE SHALL BE APPROVED BEFORE BEING CONSTRUCTED. HYDRA-FINDERS WILL BE INSTALLED PER GRANTSVILLE CITY STANDARDS DETAIL.
- A FLOW TEST MUST BE WITNESSED BY THE FIRE DEPARTMENT PRIOR TO OCCUPANCY FOR VERIFICATION OF REQUIRED ON-SITE WATER SUPPLY.
- ALL ON-SITE FIRE MAIN MATERIALS MUST BE U.L. LISTED AND A.W.W.A. APPROVED.
- THE TURNING RADIUS FOR ANY FIRE APPARATUS ACCESS ROAD AND/OR FIRE LANE, PUBLIC OR PRIVATE, SHALL BE NOT LESS THAN FORTY-EIGHT FEET (48') OUTSIDE RADIUS EQUALING 96' OR LARGER AND TWENTY-TWO FEET (22') INSIDE RADIUS AND SHALL BE PAVED.
- A FIRE APPARATUS ROAD SHALL BE REQUIRED WHEN ANY PORTION OF AN EXTERIOR WALL OF THE FIRST STORY IS LOCATED MORE THAN ONE-HUNDRED FIFTY FEET (150') FROM FIRE DEPARTMENT VEHICLE ACCESS ROADS AND/OR FIRE LANES, PUBLIC OR PRIVATE, IN EXCESS OF ONE HUNDRED FIFTY FEET (150') IN LENGTH SHALL BE PROVIDED WITH AN APPROVED TURN AROUND AREA. CONTRACTOR/ENGINEER SHALL FOLLOW LATEST INTERNATIONAL FIRE CODE REGULATIONS AT ALL TIMES IN REGARDS TO DISTANCE.
- ACCESS ROADS SHALL BE MARKED BY PLACING APPROVED SIGNS AT THE START OF THE DESIGNATED FIRE LANE, ONE SIGN AT THE END OF THE FIRE LANE AND WIDTH SIGNS AT INTERVALS OF ONE-HUNDRED FEET (100') ALONG ALL DESIGNATED FIRE LANES. SIGNS TO BE PLACED ON BOTH SIDES OF AN ACCESS ROADWAY IF NEEDED TO PREVENT PARKING ON EITHER SIDE. SIGNS SHALL BE INSTALLED AT LEAST 5', MEASURED FROM THE BOTTOM EDGE OF THE SIGN TO THE NEAR EDGE OF PAVEMENT. WHERE PARKING OR PEDESTRIAN MOVEMENTS OCCUR, THE CLEARANCE TO THE BOTTOM OF THE SIGN SHALL BE AT LEAST 7'. THE CURB ALONG OR ON THE PAVEMENT OR CEMENT IF CURB IS NOT PRESENT, SHALL BE PAINTED WITH RED WEATHER RESISTANT PAINT IN ADDITION TO THE SIGNS.
- ELECTRICALLY CONTROLLED ACCESS GATES SHALL BE PROVIDED WITH AN APPROVED EMERGENCY VEHICLE DETECTOR/RECEIVER SYSTEM. SAID SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE GRANTSVILLE CITY F.D. APPROVAL. GATES ARE ONLY ALLOWED WITH PRIOR APPROVAL.
- ALL PRIVATE UNDERGROUND FIRE LINES THAT SERVICE AUTOMATIC FIRE SPRINKLER SYSTEMS SHALL BE NO SMALLER THAN EIGHT (8) INCHES IN DIAMETER AND HAVE A POST INDICATOR VALVE (PIV) BETWEEN THE WATER MAIN AND THE BUILDING. IF A PIV ISN'T FEASIBLE DUE TO SITE CONSTRAINTS, A WATER INDICATOR VALVE (WIV) MAY BE USED WITH THE APPROVAL OF THE CITY ENGINEER OR FIRE CODE OFFICIAL. FOR A WIV TO BE ALLOWED, ANOTHER VALVE MUST BE INSTALLED ON THE FIRE SERVICE LINE BACK AT THE CONNECTION TO THE WATER MAIN, WHICH WILL BE MAINTAINED BY THE CITY AS PART OF ITS CULINARY WATER SYSTEM. ALL FIRE LINES MATERIAL SHALL BE DUCTILE IRON. (DUCTILE IRON FROM THE PIV TO THE BUILDING SHALL BE PERMITTED OR DUCTILE IRON FROM THE MAIN WATER LINE TO THE WIV).
- POST INDICATOR VALVES (PIV) SHALL BE BETWEEN 6 AND 40 FEET FROM BUILDINGS NOT EXCEEDING THREE STORIES OR EQUIVALENT IN HEIGHT AND BETWEEN 30 AND 40 FEET ON BUILDINGS IN EXCESS OF THREE OR MORE STORIES IN HEIGHT OR EQUIVALENT.
- ROADS AND ACCESSES SHALL BE DESIGNED AND MAINTAINED TO SUPPORT THE IMPOSED LOADS OF FIRE APPARATUS. SURFACE SHALL BE PAVED BEFORE THE APPLICATION OF COMBUSTIBLE MATERIAL.
- ALL NEW BUILDINGS EQUIPPED WITH A FIRE DEPARTMENT CONNECTION (FDC) MUST HAVE INLETS SECURED WITH KNOX BRAND LOCKING FDC CAP(S) WITH A SWIVEL COLLAR. ALL NEW BUILDINGS ARE ALSO REQUIRED TO HAVE A KNOX BRAND KEY LOCK BOX MOUNTED ON THE EXTERIOR BUILDING, SUCH THAT FIRE DEPARTMENT PERSONNEL MAY GAIN ACCESS IN CASE OF AN EMERGENCY.

GRANTSVILLE CITY WATER NOTES

- THE FOLLOWING GRANTSVILLE CITY WATER NOTES ARE INTENDED FOR GENERAL WATER STANDARDS ONLY AND ARE NOT ALL INCLUSIVE. THE CITY HAS INCLUDED THE CULINARY WATER DESIGN AND CONSTRUCTION STANDARDS WITHIN THE CITY CONSTRUCTION STANDARDS AND SPECIFICATIONS.
- NO WORK SHALL BEGIN UNTIL THE WATER PLANS HAVE BEEN RELEASED FOR CONSTRUCTION BY THE ENGINEERING DEPARTMENT. FOLLOWING WATER PLAN APPROVAL, FORTY-EIGHT (48) HOUR NOTICE SHALL BE GIVEN TO THE ENGINEERING DEPARTMENT AND THE PUBLIC WORKS DEPARTMENT PRIOR TO THE START OF CONSTRUCTION. NOTICE MUST BE GIVEN BY 2:00 P.M. THE BUSINESS DAY PRIOR TO AN INSPECTION.
- ALL WORK WITHIN GRANTSVILLE CITY SHALL CONFORM TO GRANTSVILLE CITY STANDARDS AND SPECIFICATIONS, AWWA AND APWA.
- FOR RESIDENTIAL DEVELOPMENTS - THE DEVELOPER SHALL PURCHASE AND INSTALL METER BOXES AND SETTERS ACCORDING TO CITY STANDARDS ON NEWLY DEVELOPED LOTS AND REAL PROPERTY AT THE TIME OF WATER MAIN INSTALLATION. WATER METERS WILL BE SUPPLIED AND INSTALLED BY THE GRANTSVILLE UTILITIES DEPARTMENT (AT DEVELOPER'S EXPENSE). THE DEVELOPER SHALL ALSO PROVIDE THE SITE ADDRESS, LOT NUMBER, METER SIZE AND PAY METER FEES PRIOR TO BUILDING PERMIT APPROVAL. THE DEVELOPER SHOULD ALSO PAY FOR RENTAL OF A HYDRANT METER, AND/OR USE THE GRANTSVILLE CITY PUBLIC WATER STANDPIPE LOCATED BY THE PUBLIC WORKS BUILDING.
- FOR COMMERCIAL AND CONDOMINIUM DEVELOPMENTS - THE DEVELOPER SHALL PURCHASE AND INSTALL METER BOXES AND SETTERS ACCORDING TO CITY STANDARDS. WATER METERS WILL BE SUPPLIED BY GRANTSVILLE CITY PUBLIC WORKS DEPARTMENT (AT DEVELOPER'S EXPENSE) AND INSTALLED BY DEVELOPER.
- ALL WATER FACILITIES SHALL BE FILLED, DISINFECTED, PRESSURE TESTED, FLUSHED, FILLED AND AN ACCEPTABLE WATER SAMPLE OBTAINED PRIOR TO COMMISSIONING THE NEW WATER LINE TO THE GRANTSVILLE CITY CULINARY WATER DISTRIBUTION SYSTEM.
- GRANTSVILLE CITY UTILITIES DEPARTMENT MUST APPROVE WATER SHUT DOWN WHICH MAY REQUIRE EVENING AND WEEKEND SHUT DOWN AS DEEMED NECESSARY, REQUIRING THE CONTRACTOR TO BE BILLED FOR OVERTIME. 48 HOUR NOTICE IS REQUIRED.
- WATER STUB-OUT INSTALLATIONS WILL NOT BE CONSTRUED AS A COMMITMENT FOR WATER SERVICE.
- CONDITIONAL APPROVAL OF VALVED OUTLET (6" AND LARGER): IN THE EVENT THE WATER PLANS SHOW ONE OR MORE VALVED OUTLETS EXTENDING OUT OF PAVED AREAS, INSTALLATIONS OF THESE OUTLETS IS ACCEPTABLE, HOWEVER, IF THE OUTLETS ARE INCORRECTLY LOCATED OR NOT USED FOR ANY REASON WHEN THE PROPERTY IS DEVELOPED, THE DEVELOPER SHALL ABANDON THE OUTLETS AT THE CONNECTION TO THE ACTIVE MAIN IN ACCORDANCE WITH THE CITY STANDARDS AND AT THE DEVELOPER'S EXPENSE.
- ALL LINES TO BE PRESSURE TESTED ACCORDING TO GRANTSVILLE CITY AND AWWA STANDARDS AND CHLORINATED PRIOR TO USE AND FINAL ACCEPTANCE.
- ALL FITTINGS TO BE COATED WITH POLY FM GREASE AND WRAPPED WITH 8-MIL THICK POLYETHYLENE.
- NO OTHER UTILITY LINES MAY BE PLACED IN THE SAME TRENCH WITH WATER LINE UNLESS APPROVED BY THE CITY ENGINEER.
- ANY CONFLICT WITH EXISTING UTILITIES SHALL BE IMMEDIATELY CALLED TO THE ATTENTION OF THE CITY ENGINEER OR DESIGNEE.
- ALL WATER VAULTS WILL BE CONSTRUCTED PER GRANTSVILLE CITY STANDARD DRAWINGS AND SPECIFICATIONS. NO VAULTS ARE ALLOWED IN TRAFFIC AREAS WITHOUT PRIOR APPROVAL OF THE CITY ENGINEER.
- LANDSCAPING AND IRRIGATION ADJACENT TO VAULTS SHALL DRAIN AWAY FROM VAULTS.
- ONCE THE WATERLINE HAS BEEN TESTED, APPROVED AND CITY WATER IS FLOWING THROUGH THE PIPE, ONLY CITY PERSONNEL ARE AUTHORIZED TO SHUT DOWN AND CHARGE THE WATERLINE.
- MEGALUG FOLLOWING RING OR AN APPROVED EQUIVALENT SHALL BE USED ON ALL FITTINGS.
- APWA PLAN 562, CITY REQUIRES STAINLESS STEEL TIE-DOWN RESTRAINTS WITH TURNBUCKLES ONLY. 5/8" REBAR IS NOT ACCEPTABLE. MEGALUG FOLLOWERS REQUIRED ON ALL FITTINGS AND ALL DIMENSIONS OF THRUST BLOCKING STILL APPLY. THRUST BLOCKS MAY BE ELIMINATED IF HORIZONTAL TIE DOWN RESTRAINTS HAVE BEEN PRE-ENGINEERED AND RECEIVE PRIOR CITY APPROVAL.
- WATER MAINS WILL BE HOT TAPPED AS CALLED OUT ON THE APPROVED PLANS. UNDER SPECIAL CIRCUMSTANCES, WHEN A CONTRACTOR SUBMITS A REQUEST FOR A SHUTDOWN CONTRARY TO THE APPROVED PLANS AND THE REQUEST IS APPROVED AT THE DISCRETION OF THE CITY ENGINEER OR DESIGNEE, THE CONTRACTOR MUST PROVIDE 48-HOUR NOTICE TO NEIGHBORS AND THOSE AFFECTED. IF BUSINESSES ARE IMPACTED BY THE SHUTDOWN IT WILL BE DONE AFTER HOURS AND ALL OVERTIME FEES FOR CITY PERSONNEL, EQUIPMENT AND VEHICLES MUST BE PAID IN ADVANCE.
- CONTRACTORS ARE REQUIRED TO WRITE THE LOT NUMBER WITH A BLACK PERMANENT MARKER ON THE INSIDE OF THE WATER METER BARRELS AS THEY ARE INSTALLED.



MATTHEWS MEADOWS SUBDIVISION PHASE 2  
GRANTSVILLE, UT  
NOTES

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GRANTSVILLE CITY  
PRE-CONSTRUCTION NOTES

CHAIN OF COMMUNICATION

- FIRST CONTACT: CODY CHRISTENSEN PUBLIC WORKS INSPECTOR - 435-237-4769
- SECOND CONTACT: GLEN MILLWARD (WATER), MARKUS SEAT (SEWER), TRAVIS DANIELS (FIRE CHIEF), JASON SMITH (ASSISTANT FIRE CHIEF).

PLEASE COMMUNICATE THROUGH E-MAIL TO MAINTAIN A WRITTEN RECORD.

MAIN CONSTRUCTION CONTACT

- PROJECT FOREMAN:

CONSTRUCTION SCHEDULE

- CONSTRUCTION STARTS:
- PLEASE PROVIDE A CONSTRUCTION SCHEDULE. HELPS CITY TO PLAN FOR WHAT IS HAPPENING. PROVIDE TO JAMES AND HE WILL DISSEMINATE TO OTHERS.

PERMITTING

CONSTRUCTION STAKING

- SURVEYING & STAKING:
- WE ARE HAVING SOME ALIGNMENT ISSUES ON CITY UTILITIES PLEASE MAKE SURE YOU GET ADEQUATE STAKING.

GEOTECHNICAL

- DOES THE CONTRACTOR HAVE A COPY OF THE GEOTECHNICAL REPORT AND IS HE FAMILIAR WITH THE REQUIREMENTS?
- DOES THE CITY INSPECTOR HAVE A COPY OF THE GEOTECHNICAL REPORT AND IS HE FAMILIAR WITH THE REQUIREMENTS? THE CITY INSPECTORS WILL BE GIVEN A COPY.
- GEO-TECH SHALL MONITOR THE EXCAVATION AND DETERMINE THE LOCATIONS THAT REQUIRE ADDITIONAL GRANULAR SUB-BASE AND SPECIFY THE DEPTH REQUIRED. CITY WOULD LIKE A DRAWINGS SHOWING THE AREAS THAT REQUIRE ADDITIONAL WORK.
- WHO WILL DO SOILS, COMPACTION TESTING?

SUBMITTALS:

- THE CONTRACTOR SHALL PROVIDE SUBMITTALS FOR MATERIAL TO THE CITY FOR APPROVAL PRIOR TO PURCHASE OF MATERIALS AND INSTALLATION. THE CITY WANTS TO CHECK THAT THE MATERIALS MEET SPEC BEFORE THEY ARE ORDERED SO THEY DONT GET REJECTED WHEN THEY HAVE BEEN INSTALLED. SUBMIT TO DAN ENGLAND, CODY CHRISTENSEN, MARKUS SEAT, GLEN MILLWARD, AND JAMES WALTZ IN PUBLIC WORKS.
- THE CITY IS FINE WITH THE MATERIALS THAT HAVE PREVIOUSLY BEEN USED.

SEWER

- PIPE MATERIAL: PVC ASTM D-3034 SDR-35
- FOLLOW OSHA REQUIREMENTS FOR TRENCHING (4' VERTICAL WITH 1:1 SLOPING OR STEPPING OR USE TRENCH BOXES).
- SEWER LATERALS PER CITY STANDARD. (APWA 431).
- UTAH REQUIREMENT OF 10' HORIZONTAL SEPARATION BETWEEN SEWER AND WATER LATERALS.
- 18" MINIMUM VERTICAL SEPARATION BETWEEN WATER AND SEWER.
- CRUSHED ROCK ¾-INCH MINUS IN PIPE ZONE (¾-INCH ROUNDED PEA GRAVEL IS NOT ALLOWED BY THE CITY).
- SEWER LATERALS. GRAVEL BEDDING TO BE EXTENDED TO DWELLING.
- A-1-a SOILS MAY BE USED ABOVE THE PIPE ZONE IF THEY ARE SUITABLE TO THE CITY AND CAN MEET COMPACTION REQUIREMENTS (BLENDING MAY BE REQUIRED).
- OFFSET TEES FOR SEWER LATERALS; GASKET TYPE.
- COMPACTION - 95% IN ROADS, 90% OFF-ROAD (ASTM D-1557, MODIFIED PROCTOR)
- INSTALLATION AS PER ASTM D-2321
- ALL PRECAST MANHOLES TO BE PROVIDED WITH RUBBER BOOTS AND STAINLESS-STEEL BANDS AT PIPE PENETRATIONS.
- INTERIOR PIPE PENETRATIONS IN ALL SEWER MANHOLES SHALL BE GROUTED.
- TRACER WIRE EXTENDING FROM MAIN TO LATERAL. STUB ON ALL LATERALS AND EXTENDED TO SURFACE AT STUB MARKER. INCLUDE AN EXTRA 30-FEET TO EXTEND ALONG THE SERVICE TO THE DWELLING.
- STAMP (WHEN WET) OR PIN (DO NOT GRIND) GUTTER BOTH AT THE LIP AND TOP OF CURB AN "S" AT ALL SERVICE LATERALS (TWO PLACES FOR EACH SERVICE). MAKE SURE THESE ARE LOCATED ABOVE THE LATERALS IN THE PROPER LOCATIONS.
- EXTEND UTILITY LATERAL STUB MARKERS BEYOND THE 15-FOOT PU&DE (15-FEET BEHIND BACK OF WALK).
- END OF SEWER LATERALS SHALL BE PLUGGED.

TESTING:

- AIR TEST MANDATORY - CERTIFICATION REQUIRED.
- VACUUM TEST REQUIRED FOR THE MANHOLES.
- VIDEO INSPECTION AFTER FLUSHING - THE CITY DOES NOT NEED TO OBSERVE THE VIDEO INSPECTION. VIDEO RECORD TO BE PROVIDED FOR CITY REVIEW.
- PLEASE PROVIDE THE CITY 48 HOURS' NOTICE PRIOR TO TESTING.

EMERGENCY SERVICES

- INSTALL A SILT FENCE FIVE FEET OUT AROUND LIVE FIRE HYDRANTS AND ELECTRICAL TRANSFORMERS. THIS HELPS MAINTAIN A CLEAR SPACE AROUND THEM AND MAKES THEM VISIBLE IF EMERGENCY SERVICES ARE NEEDED TO FIND THEM DURING CONSTRUCTION.
- INSTALL TEMPORARY SIGNAGE AT THE BEGINNING OF WORK ON THE SITE.
- PARK ONLY ON ONE SIDE OF ACCESS ROADS SO EMERGENCY ACCESS IS CLEAR.
- COORDINATE WITH FIRE CHIEF FOR HIS INSPECTIONS. ROADS: FACE OF CURB TO FACE OF CURB IS PROPER DISTANCE AND HYDRANTS ARE PROPERLY PLACED. THE HEIGHT OF THE HYDRANTS WILL ALSO BE INSPECTED. 18" ABOVE GROUND FROM THE PUMPER NOZZLE.
- PAINT RED CURB TEN FEET EITHER DIRECTION FIRE HYDRANTS.

CULINARY WATER

- PIPE MATERIAL: PVC C900 DR18
  - USE BEDDING SAND FOR BACKFILL IN THE PIPE ZONE (CITY NEEDS TO PREAPPROVE SAND BEDDING.) CITY WANTS CLEANED WASHED SAND. THE CITY WANTS A BUCKET AHEAD OF TIME SO THE CITY CAN WET IT AND SEE IF IT SETS UP LIKE CONCRETE OR NOT. IT CANT SET UP LIKE CONCRETE. THEY CAN PULL FROM THE STAKER PIT BUT THE SAND NEEDS TO BE WASHED. THE CITY CAN PROVIDE AN EXAMPLE FOR WHAT THEY ARE LOOKING FOR.
  - WATER LATERALS SAND BEDDING NEEDS TO GO TO THE DWELLING.
  - A-1-a SOILS MAY BE USED ABOVE THE PIPE ZONE.
  - VALVES SHALL BE CLUSTERED IN INTERSECTIONS
  - VALVES & TEMP. BLOW-OFF ARE LOCATED AT THE DEAD-END MAIN OF PHASE LINES TO ALLOW FOR FLUSHING, ISOLATION AND CONTINUED SERVICE TO EXISTING CONNECTIONS WHEN FUTURE PHASES ARE CONSTRUCTED.
  - METER AND SERVICES SHALL BE ¾-INCH POLYETHYLENE SDR11 IPS. INSTALL SERVICE LATERALS AND METERS WITHIN 5-FEET OF LOT LINES (AS CLOSE TO LOT LINE AS PRACTICABLE). ONE ON EACH SIDE OF COMMON LOT LINE (ALTERNATE WITH SECONDARY WATER).
  - USE 150# CORP STOPS
  - 10' HORIZONTAL SEPARATION OF WATER AND SEWER LATERAL PER STATE REQUIREMENTS. WATER LATERAL TO BE LOCATED UPSLOPE OF SEWER LATERAL TO THE EXTENT PRACTICABLE.
  - 18" MINIMUM VERTICAL SEPARATION BETWEEN WATER AND SEWER.
  - 10' HORIZONTAL SEPARATION OF WATER AND STORMWATER.
  - METER BARRELS SHALL BE 21-INCH DIAMETER WHITE CORRUGATED POLYETHYLENE
  - METER TO BE INSTALLED 18 TO 22 INCHES BELOW THE LID.
  - PLACE SAND AROUND THE WATER SERVICE SETTER BASES AND ABOVE TO STABILIZE SETTER AND PROVIDE INSULATION. GRAVEL IS NOT ALLOWED.
  - TAPPING SADDLES SHALL BE BRASS WITH DOUBLE STAINLESS STEEL OR BRASS STRAPS WRAPPED WITH POLY SOCK.
  - USE DUAL CHECK AND HEAVY-DUTY ANGLE VALVES FOR ALL SERVICES.
  - INSTALL TRACER WIRE AND LOCATING TAPE ABOVE WATER MAIN.
  - INSTALL TRACER WIRE FROM MAIN CONNECTION THROUGH METER PIT TO STUB MARKER WITH 30' EXCESS TO EXTEND TO THE DWELLING.
  - STAMP (WHEN WET) OR PIN (DO NOT GRIND) GUTTER BOTH AT THE LIP AND TOP OF CURB WITH A "W" AT ALL SERVICE LATERALS (2 PLACES EACH SERVICE). MAKE SURE THESE ARE LOCATED ABOVE THE LATERALS IN THE PROPER LOCATIONS.
  - THRUST BLOCKS NEED TO BE INSPECTED BY THE CITY PRIOR TO BACKFILL. SIZE BASED ON TEST PRESSURES
  - MAKE SURE FIRE HYDRANTS NEED TO BE INSTALLED TO THE PROPER HEIGHT TO HELP THE BREAK A WAY FUNCTION WORKS.
  - HYDRO FINDERS MUST BE INSTALLED.
- TESTING:
- HYDROSTATIC PRESSURE TEST: 200 PSI FOR A MINIMUM OF 2 HOURS FOR MAIN ONLY AND 150 PSI IF TESTING WITH TAPPING SADDLES AND CORPORATIONS IN PLACE - INSPECTOR (GLEN MILLWARD OR ASSIGNED CITY INSPECTOR) MUST BE PRESENT FOR THE ENTIRE DURATION OF THE TEST.

- DISINFECTION:
- HYPOCHLORITE POWDER
  - CHLORINE RESIDUALS WILL BE TESTED ONCE BY THE CITY. BUT ANY RETESTS WILL BE PERFORMED BY THE CONTRACTOR/DEVELOPER
  - ONLY ONE SERIES OF BAC-T TESTING WILL BE PERFORMED BY THE CITY TO ACCEPT WATER LINES AND ANY RETESTS WILL BE PERFORMED BY THE CONTRACTOR/DEVELOPER (PRELIMINARY INVESTIGATIVE TESTS BY THE CONTRACTOR/DEVELOPER ARE ENCOURAGED) THE CITY NEEDS TO DO THE GRAB ON ANY SAMPLES.
- PER AWWA C651, BAC-T TESTING SHALL BE COMPLETED FOR EVERY 1,200 FEET OF NEW WATER MAIN, AT THE END OF THE LINE, AND AT EACH BRANCH. TWO CONSECUTIVE SAMPLE SETS SHALL BE COLLECTED AT THE AFOREMENTIONED LOCATIONS AT LEAST 24 HOURS APART.

THE CITY WILL NOT SWING METER BOXES TO ACCOMMODATE THE DRIVEWAY. THINK ABOUT THE LATERAL LOCATIONS BEFORE LOCATING THE DWELLING.

STORM WATER

- PIPE MATERIAL:
- REINFORCED CONCRETE (RCP) AND/OR ADS POLYPROPYLENE GRAY PIPE
  - INSTALLATION AND COMPACTION TO FOLLOW MANUFACTURERS RECOMMENDATIONS.
  - ALL CATCH BASIN BOXES INCLUDE A SUMP. FOR BOXES WITH SNOUTS THE SUMP DEPTH IS BASED UPON THE SNOUT MODEL MANUFACTURES RECOMMENDATION. FOR ALL OTHER BOXES THE DEPTH IS 12" BELOW THE FLOW LINE OF THE PIPES.

FRANCHISE UTILITIES

- GAS: DOMINION
- POWER: ROCKY MOUNTAIN POWER
- CABLE: COMCAST
- PHONE: CENTURY LINK
- PLEASE INSTALL STUBS FOR FUTURE PHASES FOR FRANCHISED UTILITIES SO THAT NEW STREETS AND CONCRETE DONT HAVE TO BE CUT TO EXTEND TO A FUTURE PHASE.

SURFACE IMPROVEMENTS

- PAVEMENT:
- ½" OR ¾-INCH ASPHALT AGGREGATE (1/2" IS THE CITY PREFERENCE). THE CITY STANDARD PAVEMENT SECTION IS 3-INCH ASPHALT ON 6-INCH UBC ON 8-INCH GRANULAR BORROW. (FABRIC)
  - MARSHALL MIX REQUIRED PRIOR TO PAVING
  - ROAD BASE AND CROSS-SECTION PER APPROVED DRAWINGS.
  - PROVIDE PROPER SIGNAGE PER UTAH MUTCD.
  - PROVIDE STOPS BARS AT STOP SIGNS.
  - ADA TRUNCATED DOME INSERTS NEED TO BE YELLOW IN PED RAMPS. THE SPACING IS REQUIRED TO BE 2" TO FRONT OF RAMP AND NO MORE THAN 2" OFF THE SIDES OF THE WALKING PATH.
  - INSTALL "NO PARKING" SIGNS IN TEMPORARY TURNAROUNDS. HOMEOWNERS ARE PARKING VEHICLES IN THEM.

- CONCRETE:
- AIR TEST EVERY 50 YARDS UNLESS RESULTS ARE OUT OF SPEC (5% - 7%)
  - 3 CYLINDERS EVERY 50 YARDS
  - 4,500 PSI CONCRETE FOR ALL SURFACE IMPROVEMENTS.
  - SIDEWALK SECTION IS 6" PCC ON 6" UBC.

- EARTHWORK:
- PROVIDE COMPACTION AND SIEVE ANALYSIS ON ALL INITIAL PROCTORS AND NEW MATERIAL.
  - COMPACTION TESTS EVERY 100 FEET OF PIPE TRENCH. VARY DEPTHS TO PROVIDE RESULTS THROUGHOUT STRATA.
  - ROAD WORK AND BASE - BOTH SHOULDERS AND CENTERLINE WITH A MAXIMUM OF 200' BETWEEN TESTS.
  - PROOF ROLL TRENCHES, SUBGRADE, AND BASE
  - MINIMUM OF FOUR COMPACTION TESTS AROUND EACH MANHOLE AND CLEANOUT.
  - USE APWA DETAIL 255 FOR PIPE TRENCH PATCHING.

TESTING AND QA/QC

- 48-HOUR NOTICE IS REQUIRED PRIOR TO ANY TESTING. MAKE SURE THE TEST IS SCHEDULED.
- INSPECTOR(S) REPRESENTING THE CITY MUST BE PRESENT FOR ALL TESTING INCLUDING THOSE PERFORMED BY AN INDEPENDENT AGENCY.
- PUBLIC WORKS HOURS ARE 7 AM TO 3:30 PM MONDAY THROUGH FRIDAY. HOWEVER, THE CITY WILL WORK WITH CONTRACTOR IF CONTRACTOR IS WORKING OUTSIDE THESE HOURS.
- COMPACT FILL IN 8' LIFTS.

CONSTRUCTION WATER

- CONTRACTOR SHALL OBTAIN WATER FOR CONSTRUCTION FROM A CITY APPROVED FIRE HYDRANT USING A HYDRANT METER RENTED FROM THE CITY. THERE IS A \$1600 REFUNDABLE DEPOSIT FOR HYDRANT METERS AND A CHARGE OF \$6 PER 1000 GALLONS FOR ALL WATER USED. \$75 A MONTH RENTAL CHARGE.
- PLEASE DONT DAMAGE THE METERS AND DONT TAKE ANYTHING OFF THE METER.

EROSION CONTROL / STORM WATER SYSTEM PROTECTION

- MINIMIZE POTENTIAL FOR OFF-SITE RUN-OFF
- MINIMIZE DISTURBED AREAS.
- KEEP WORKING AREA WETTED TO MINIMIZE DUST
- PROVIDE SILT FENCE TO PREVENT SEDIMENT TRANSPORT DOWNSTREAM.
- CONTAIN ALL SEDIMENT ON SITE.
- MAINTAIN BMPS AS PER SWPPP.
- SWPPP TO BE ON-SITE AT ALL TIMES.
- PROOF OF COVERAGE UNDER UPDATES REQUIRED
  - CITY WILL NEED A COPY OF THE NOI
- THE CITY IS ON COMPLIANCE GO. MAKE SURE UPDATES ARE LOADED IN COMPLIANCE GO. ADD THE CITY PUBLIC WORKS E-MAIL CONTACT. HAVE A RSI AND PTOE ON SITE.
- THE CITY WILL CHECK WITH THE CONTRACTOR AFTER AN EVENT.
- INSPECT AFTER RAINFALL AND OTHER EVENTS (WEATHER, AND CONSTRUCTION AROUND BMPS) THAT MAY AFFECT BMPS.
- MAKE SURE TO FOLLOW THE SWPPP AS SHOWN ON THE PLANS.
- PROVIDE VEGETATIVE COVER ON COMPLETED OR LONG-TERM TEMPORARY GRADING WITHIN 14 DAYS.
- PUT THE SWPPP SIGN ON SITE AND VISIBLE SO THE STATE CAN SEE IT ON A DRIVE BY.

CONSTRUCTION DEBRIS DISPOSAL

- MAINTAIN A WORK SITE THAT IS CLEAN AS POSSIBLE AND PROPERLY DISPOSE OF DEBRIS AND TRASH.
- NO GARBAGE PITS ALLOWED
- NO ON-SITE CONCRETE WASHOUT ALLOWED UNLESS HAULED FROM SITE AT END OF PROJECT OR OTHER PROVISIONS ARE MADE.

SITE SAFETY

- CONFORM TO OSHA STANDARDS.
- CLOSE TRENCHES AT NIGHT.
- SECURE OPEN TRENCHES AND PLUG LINES.

SECURITY

- SECURE CONSTRUCTION EQUIPMENT WHEN NOT IN USE.

SANITATION

- CLEAN AND PROPERLY MAINTAINED PORT-A-JOHN(S) ON SITE AT ALL TIMES.

HAZARDOUS MATERIAL STORAGE ON SITE

- IF THERE ARE HAZARDOUS MATERIALS ON SITE, MAKE SURE THE CITY HAS APPROVED IT AND THAT IT HAS SECONDARY CONTAINMENT. THE FIRE CHIEF NEEDS TO KNOW WHAT IS ON SITE, HOW IT IS SECURED AND WERE IT IS LOCATED.

SITE ACCESS

AS SHOWN ON THE SWPPP DONT DEVIATE FROM IT.

CONSTRUCTION OBSERVATION

- CITY PERSONNEL WILL INSPECT REGULARLY AS NEEDED.

CONSTRUCTION DRAWINGS

- KEEP AN ACCURATE SET OF AS-BUILTS.
- PROVIDE COPIES OF AS-BUILTS AT COMPLETION OF PROJECT PRIOR TO OCCUPANCY.
- MAKE SURE CHANGES IN AS-BUILTS ARE BUBBLED AND CLEAR AS WHAT CHANGES HAVE OCCURRED.
- CITY HAS STORM BASIN PLAN CERTIFICATION THE DESIGNING ENGINEER NEEDS TO SIGN AND STAMP.
- PROVIDE DIGITAL SET OF AS-BUILTS (PDF, DWG AND SHAPE FILES ARE REQUIRED.) FOR CITY PRIOR TO OCCUPANCY.
- CITY WILL PROVIDE A LIST OF ITEMS REQUIRED IN THE SHAPE FILE.
- KRISTY WILL PROVIDE HER REQUIREMENTS FOR THE CONSTRUCTION DRAWINGS.
- IF THERE ARE QUESTIONS ABOUT THE PLANS AND CONDITIONS ON THE GROUND FIRST REQUEST THE DESIGN ENGINEER'S INTERPRETATION AND BRING THAT INTERPRETATION TO THE CITY WHEN QUESTIONS COME UP. THE ONSITE INSPECTORS CANNOT MAKE APPROVALS TO CHANGES. DOCUMENT CHANGES.

CONSTRUCTION DRAWINGS:

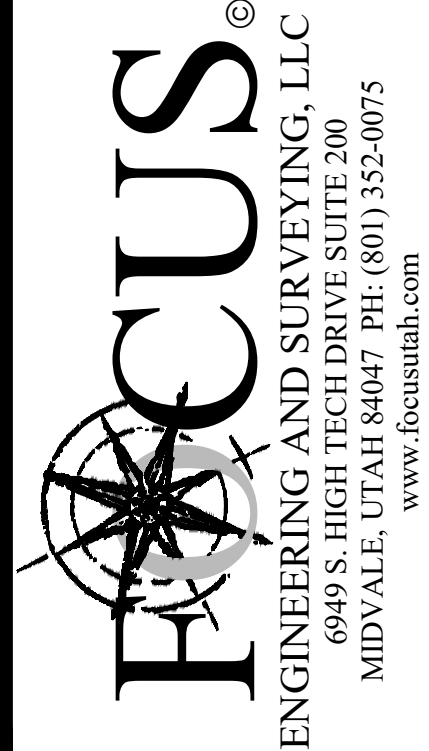
DONT PRINT ANY PLANS UNTIL ALL OF THE CHANGES HAVE BEEN MADE AND YOU HAVE RECEIVED A COPY OF THE SIGNED PLANS FROM KRISTY CLARK.

- PROVIDE KRISTY CLARK WITH ONE 24X36 AND FOUR 11X17'S.

PROJECT CONCERNS OR QUESTIONS:

SHARE THIS DOCUMENT WITH THOSE ON SITE TO USE AS CONSTRUCTION STANDARDS.

END



MATHEWS MEADOWS SUBDIVISION PHASE 2  
GRANTSVILLE, UT  
PRE-CON NOTES

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