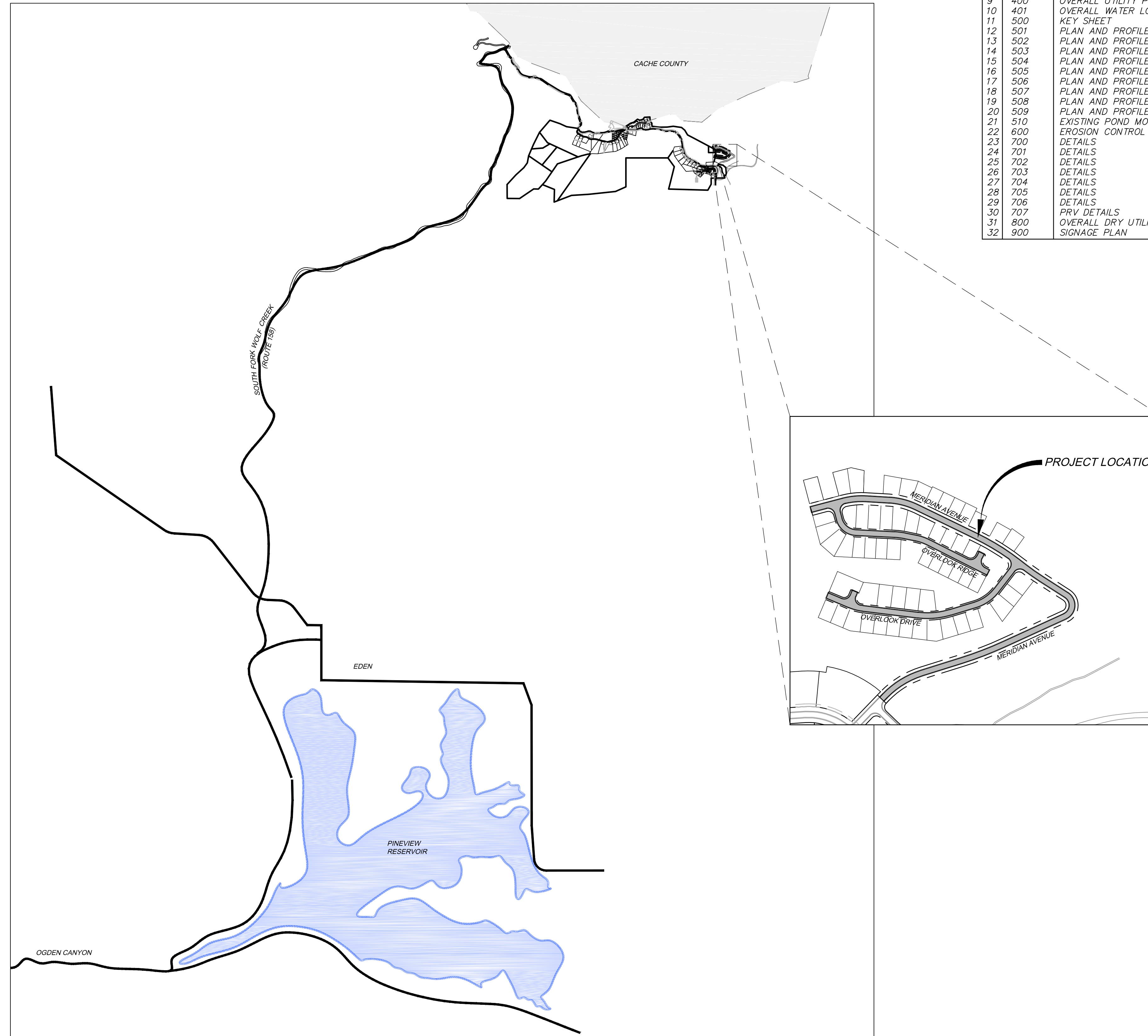


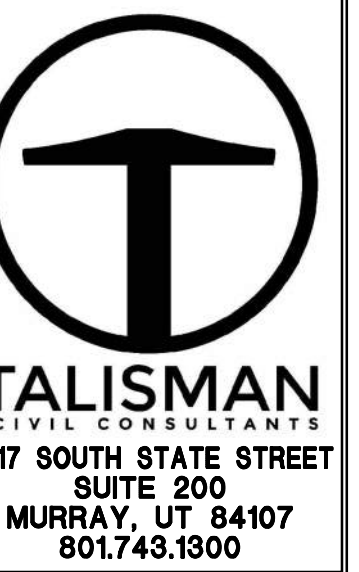
OVERLOOK PH1, PH2, & PH3 AT SUMMIT POWDER MOUNTAIN SITE CONSTRUCTION DRAWINGS

Located in Secs 05 & 08 T7N R2E
Weber County, Utah



SHEET INDEX:

SHEET NO.	SHEET DESCRIPTION
1	001 CIVIL TITLE SHEET
2	002 GENERAL NOTES & LEGEND
3	003 TYPICAL ROAD SECTIONS
4	200 OVERALL SITE & GRADING PLAN
5	201 CUT - FILL PLAN
6	202 ROADWAY SECTIONS - MERIDIAN AVENUE
7	203 ROADWAY SECTIONS - OVERLOOK DRIVE
8	204 ROADWAY SECTIONS - OVERLOOK RIDGE
9	400 OVERALL UTILITY PLAN
10	401 OVERALL WATER LOOP PLAN
11	500 KEY SHEET
12	501 PLAN AND PROFILE - MERIDIAN AVENUE STA: 8+50 - 13+50
13	502 PLAN AND PROFILE - MERIDIAN AVENUE STA: 13+50 - 18+50
14	503 PLAN AND PROFILE - MERIDIAN AVENUE STA: 18+50 - 23+50
15	504 PLAN AND PROFILE - MERIDIAN AVENUE STA: 23+50 - 28+50
16	505 PLAN AND PROFILE - MERIDIAN AVENUE STA: 28+50 - 31+16
17	506 PLAN AND PROFILE - OVERLOOK RIDGE STA: 10+00 - 15+00
18	507 PLAN AND PROFILE - OVERLOOK RIDGE STA: 15+00 - 18+16
19	508 PLAN AND PROFILE - OVERLOOK DRIVE STA: 10+00 - 15+00
20	509 PLAN AND PROFILE - OVERLOOK DRIVE STA: 15+00 - 19+00
21	510 EXISTING POND MODIFICATION
22	600 EROSION CONTROL PLAN
23	700 DETAILS
24	701 DETAILS
25	702 DETAILS
26	703 DETAILS
27	704 DETAILS
28	705 DETAILS
29	706 DETAILS
30	707 PRIV DETAILS
31	800 OVERALL DRY UTILITY PLAN
32	900 SIGNAGE PLAN

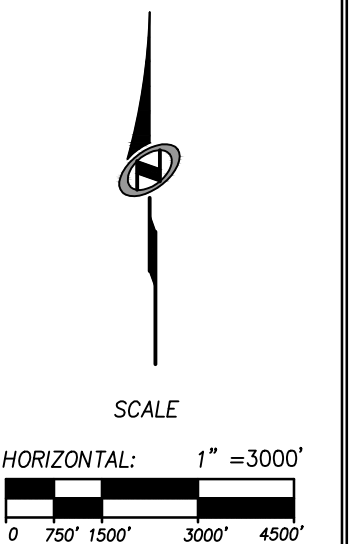
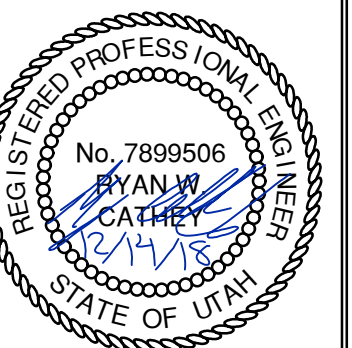


OVERLOOK PH1, PH2, PH3 AT S.P.M.
CIVIL TITLE SHEET

CIVIL TITLE SHEET

DATE SUBMITTED: 12.14.2018

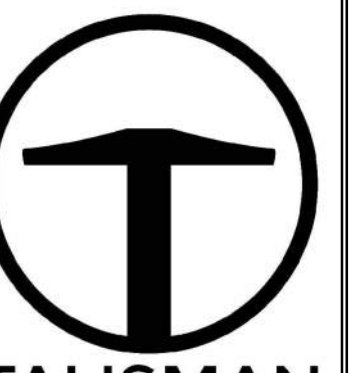
TCC JOB NUMBER: 18-200.23



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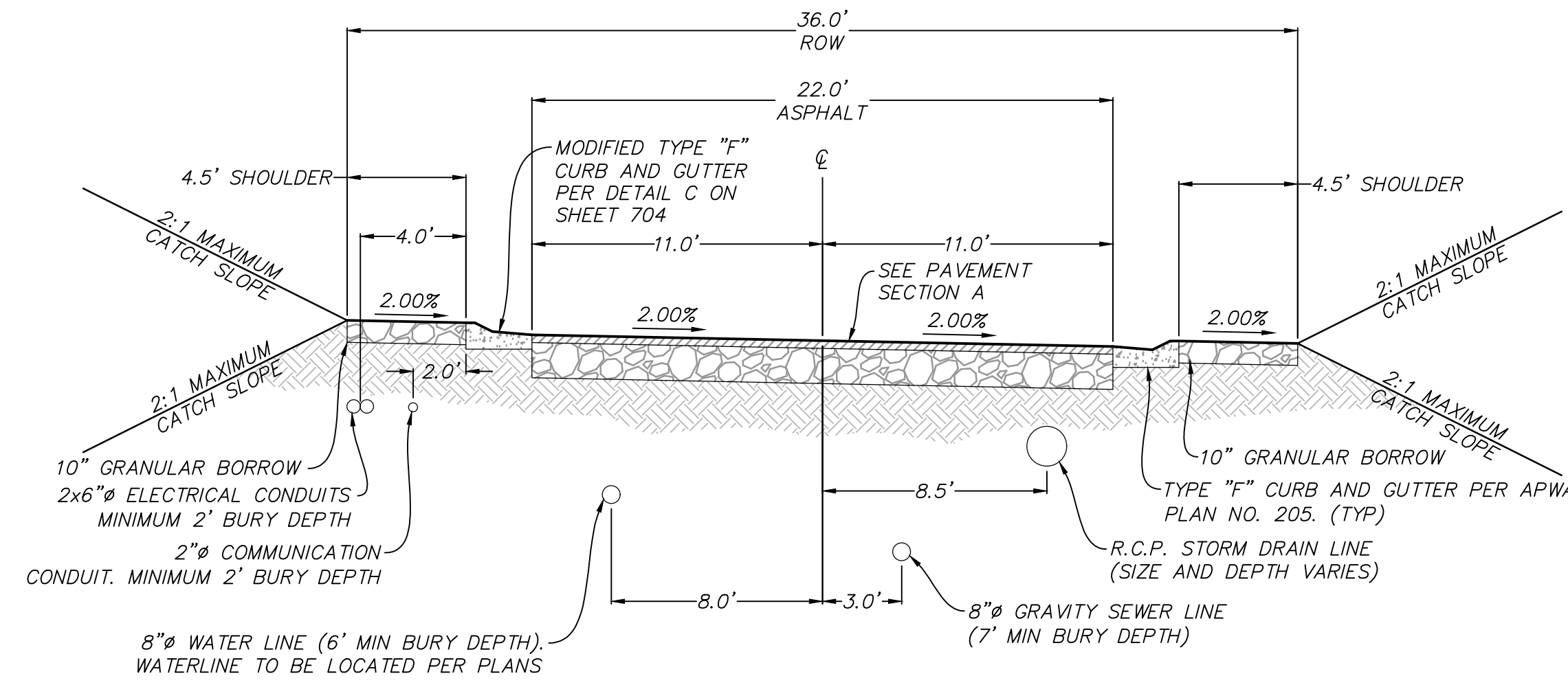
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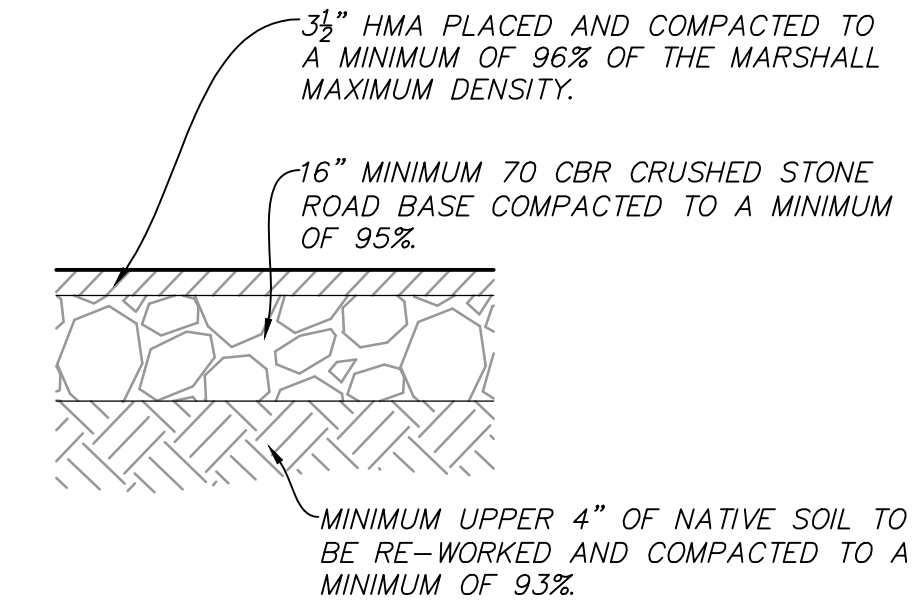


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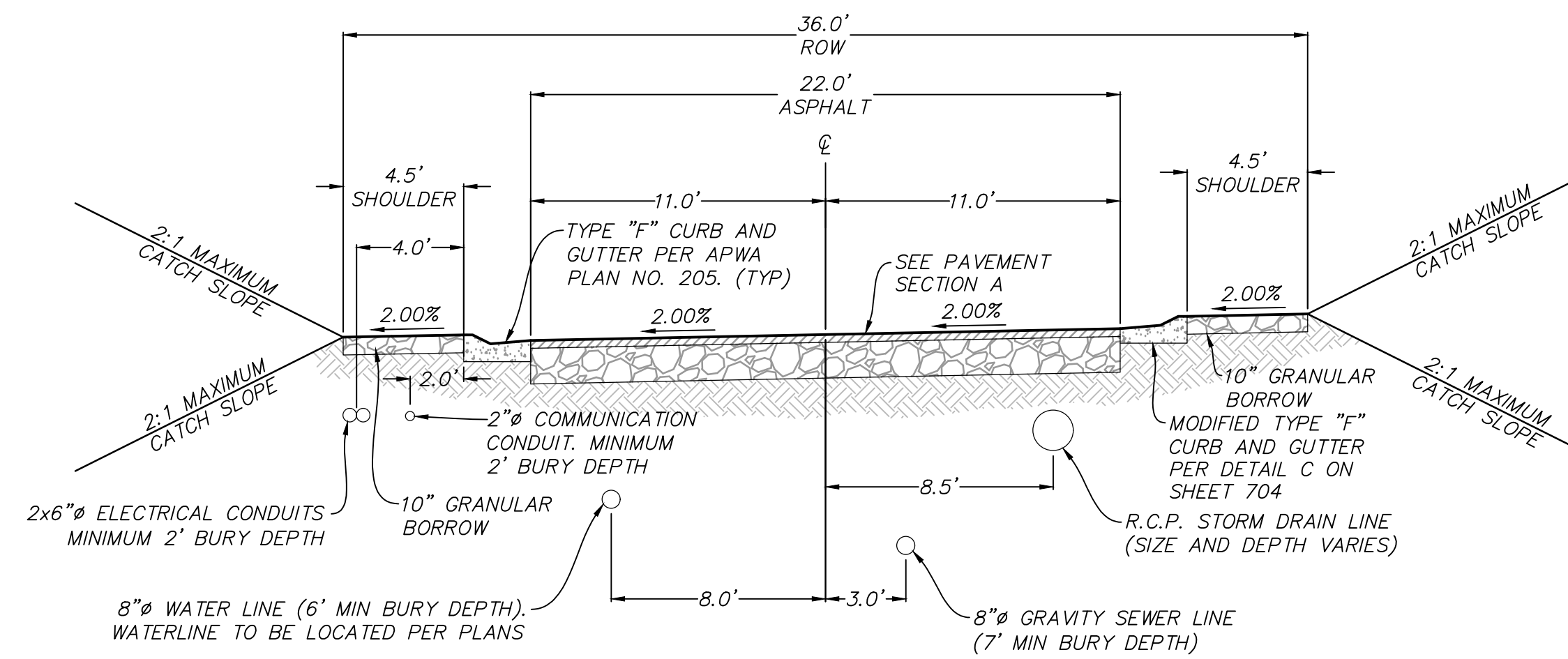
NO.	DATE	BY	REVISIONS



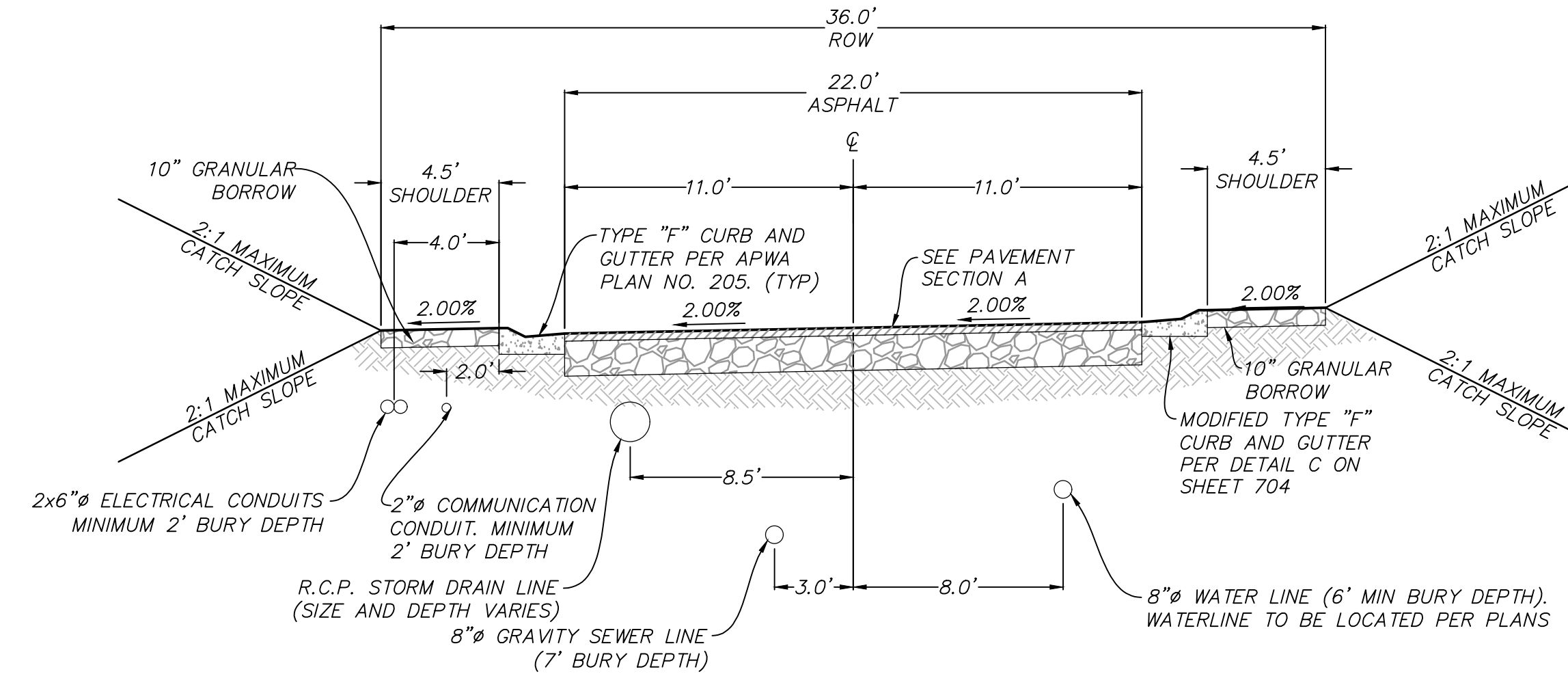
TYPICAL SECTION: MERIDIAN AVENUE



PAVEMENT SECTION A
NOTE: PAVEMENT SECTION DETERMINED BY IGES GEOTECHNICAL REPORT DATED NOVEMBER 9, 2018.



TYPICAL SECTION: OVERLOOK RIDGE

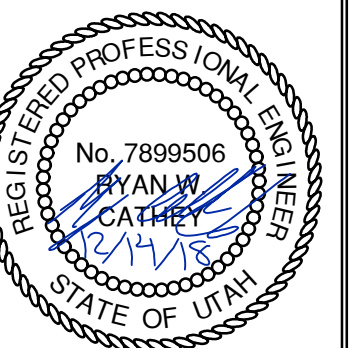


TYPICAL SECTION: OVERLOOK DRIVE

OVERLOOK PH1, PH2, PH3 AT S.P.M.
TYPICAL ROAD SECTIONS

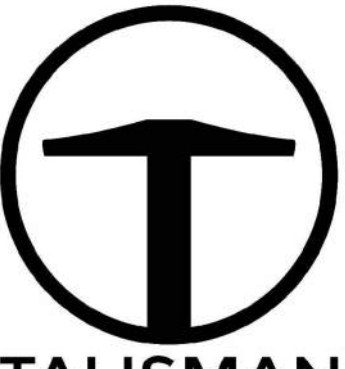
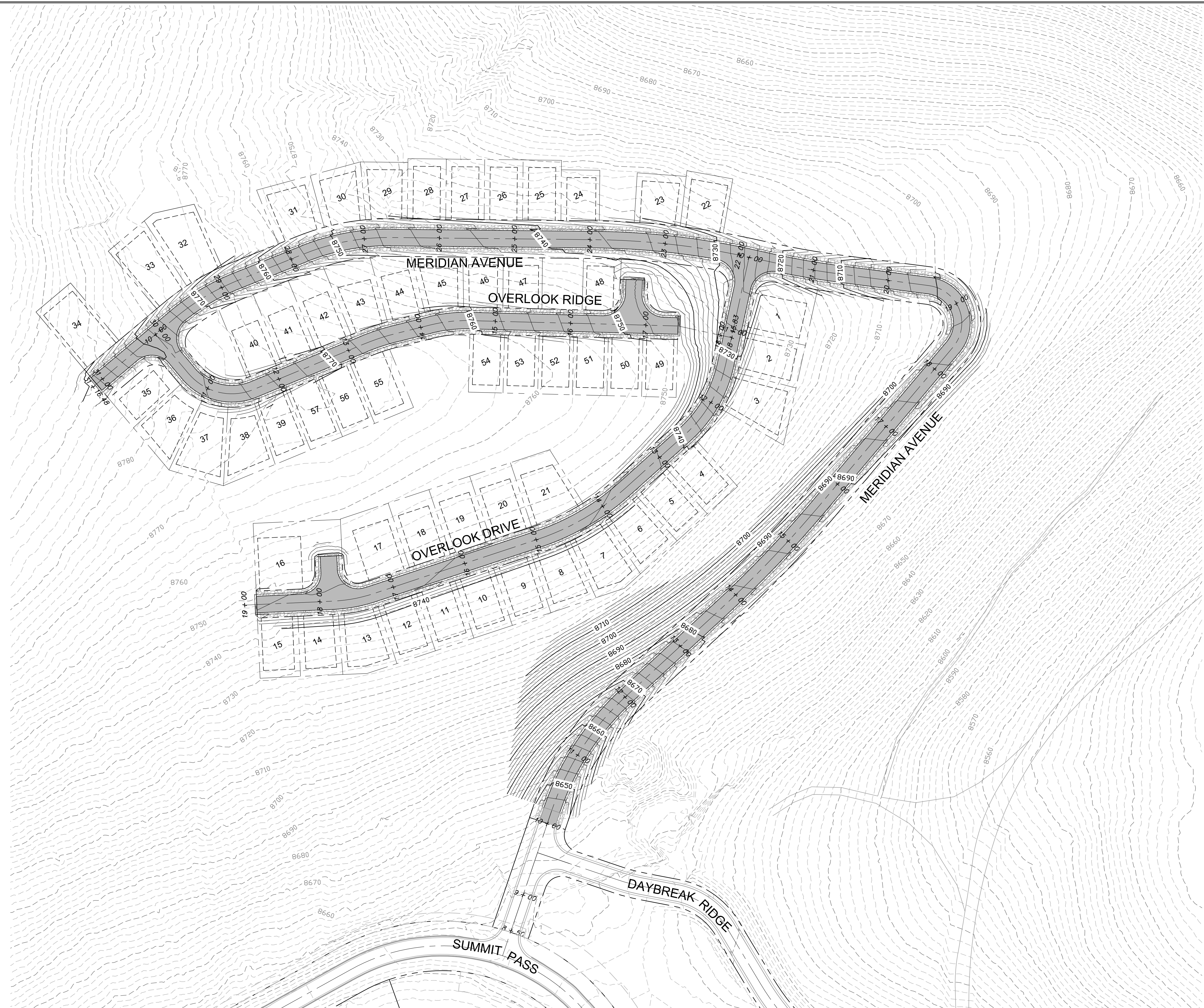
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TCC JOB NUMBER: 18-200.23



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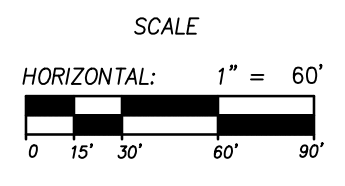
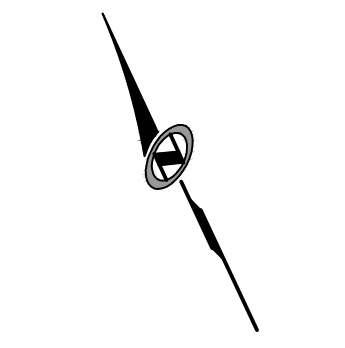
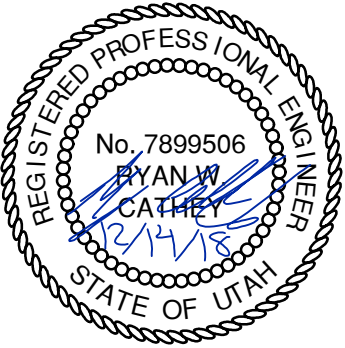
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OVERLOOK PH1, PH2, PH3 AT S.P.M.
 OVERALL SITE & GRADING PLAN

DATE SUBMITTED: 12.14.2018

TCC JOB NUMBER: 18-200-23

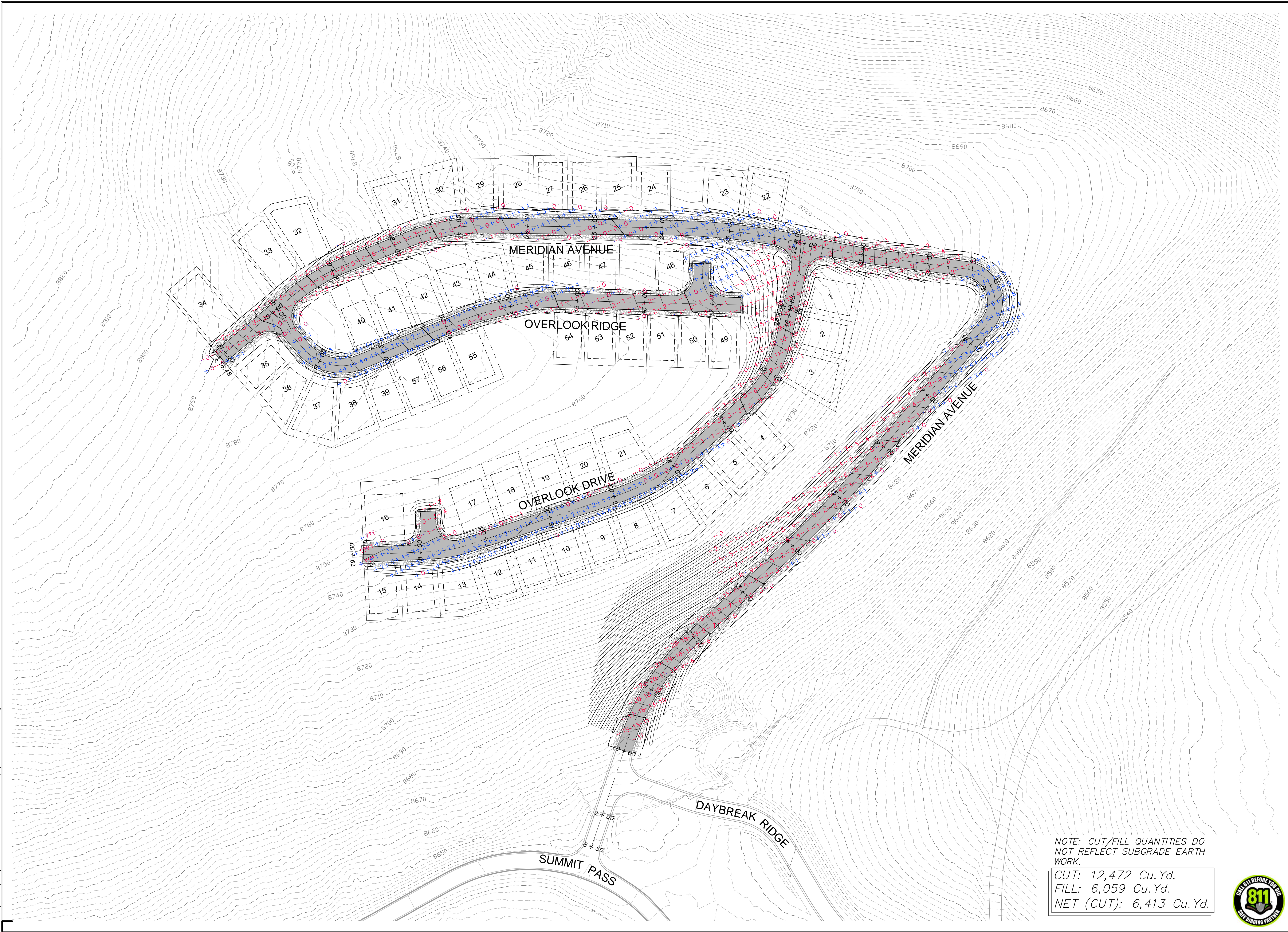


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200
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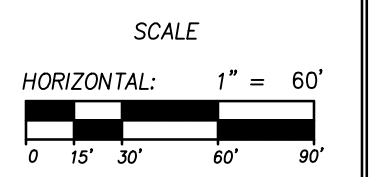
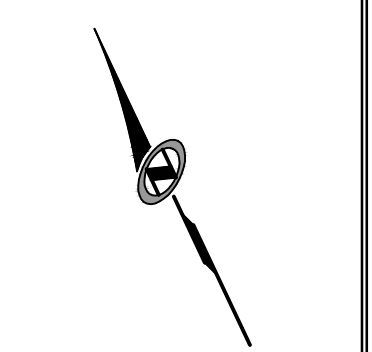
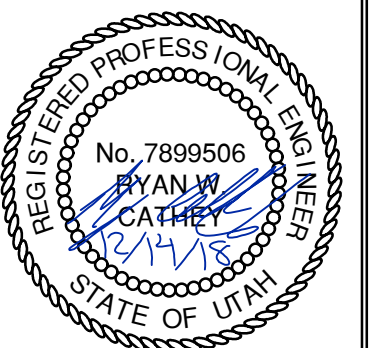
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NO.	BY	DATE	REVISIONS

OVERLOOK PH1, PH2, PH3 AT S.P.M.
CUT - FILL PLAN

DATE SUBMITTED: 12.14.2018

TCC JOB NUMBER: 18-200.23



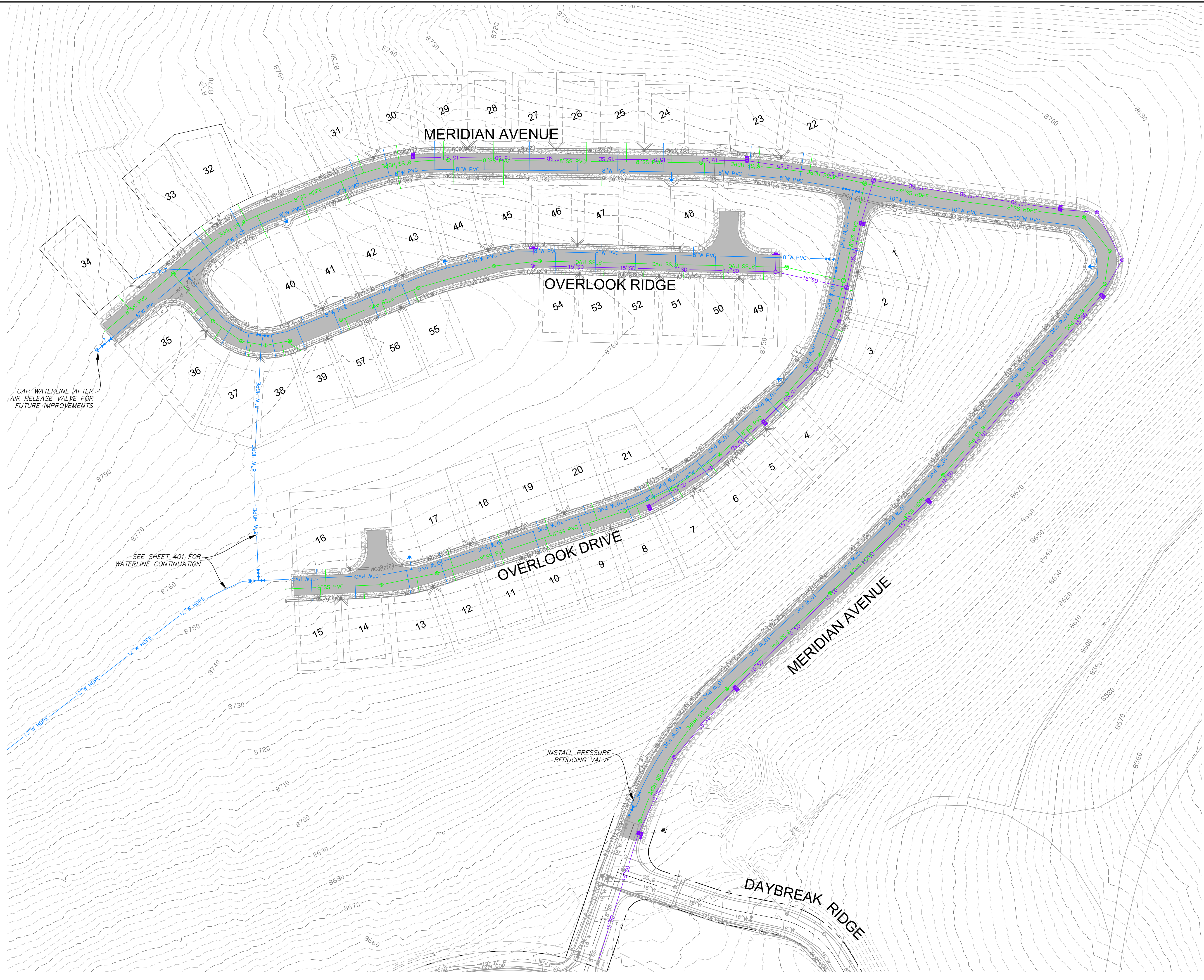
SHEET NUMBER
201
 5 OF 32

NOTE: CUT/FILL QUANTITIES DO NOT REFLECT SUBGRADE EARTH WORK.
 CUT: 12,472 Cu.Yd.
 FILL: 6,059 Cu.Yd.
 NET (CUT): 6,413 Cu.Yd.



DATE: 12/14/2018 1:16 PM

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CAP WATERLINE AFTER AIR RELEASE VALVE FOR FUTURE IMPROVEMENTS

SEE SHEET 401 FOR WATERLINE CONTINUATION

INSTALL PRESSURE REDUCING VALVE

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OVERLOOK PH1, PH2, PH3 AT S.P.M.
OVERALL UTILITY PLAN

DATE SUBMITTED: 12.14.2018

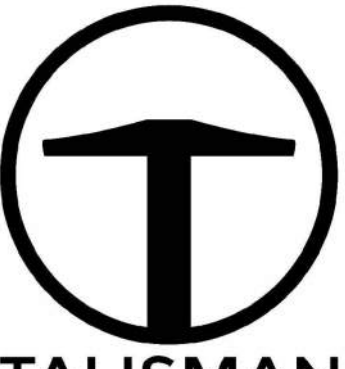
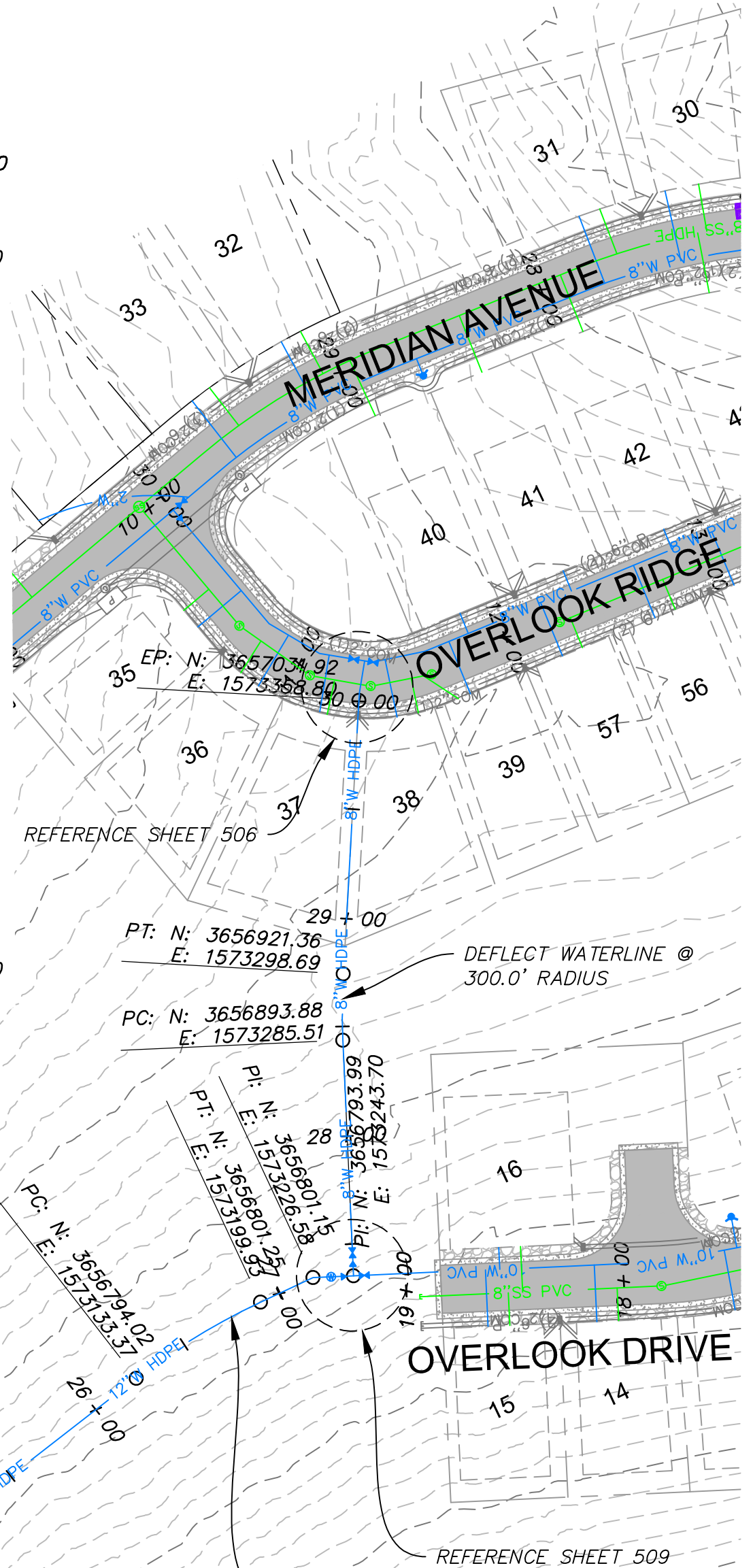
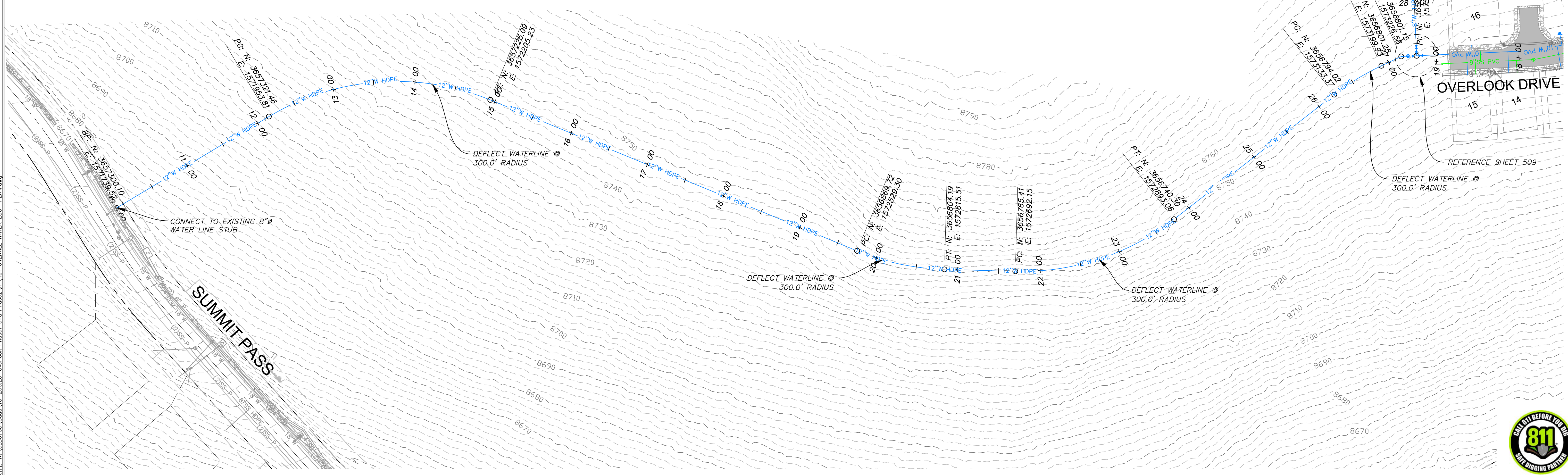
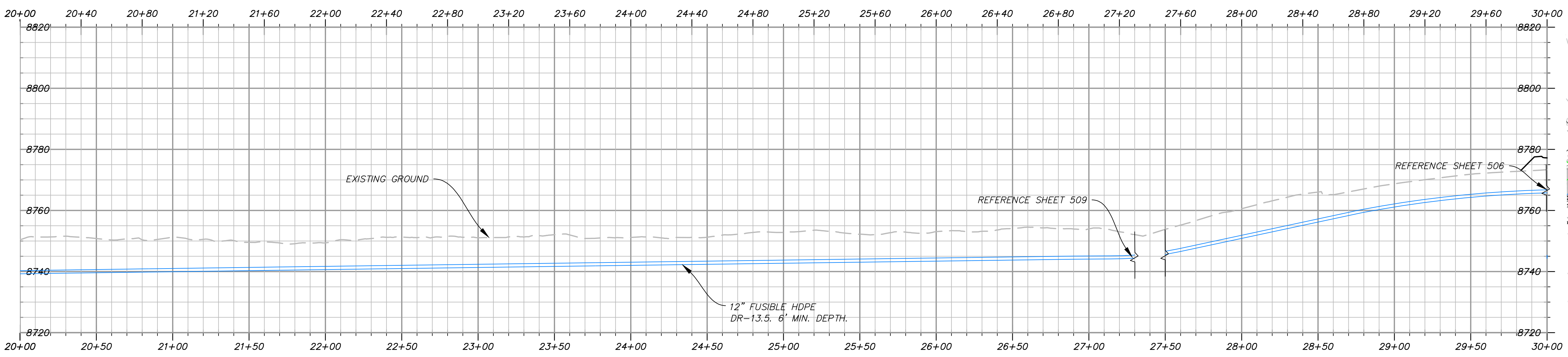
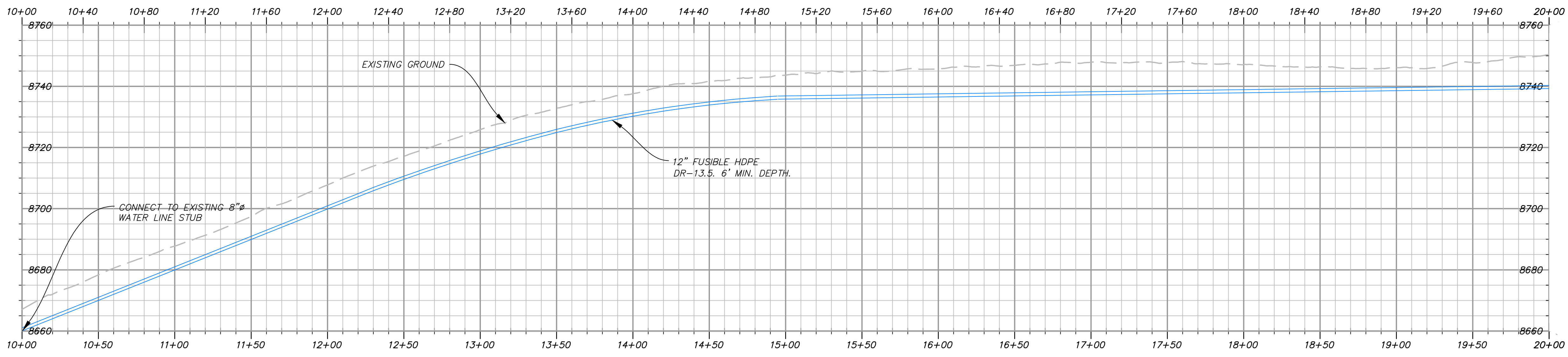
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SCALE
HORIZONTAL: 1" = 50'
0 12.5' 25' 50' 75'

SHEET NUMBER
400
9 OF 32



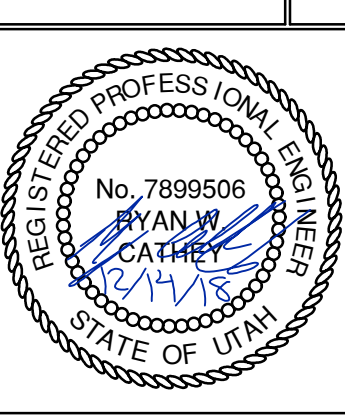
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OVERLOOK PH1, PH2, PH3 AT S.P.M.
OVERALL WATER LOOP PLAN



SCALE
HORIZONTAL: 1" = 60'
0 15' 30' 60' 90'

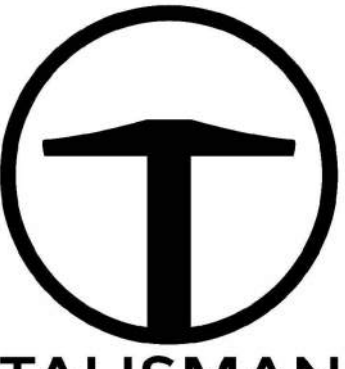
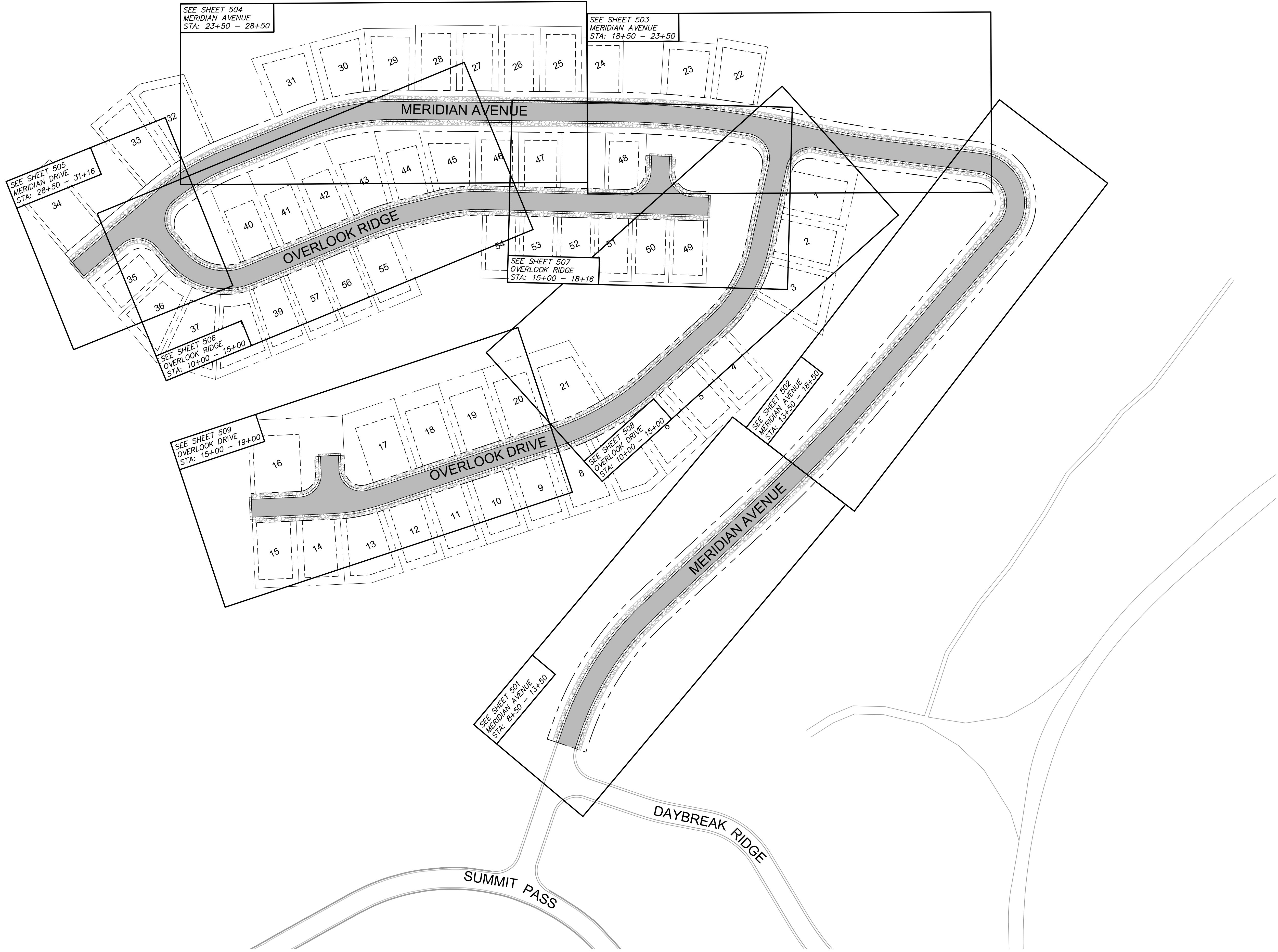
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DATE SUBMITTED: 12.14.2018



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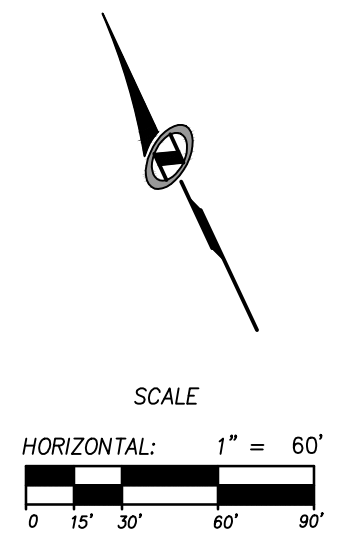
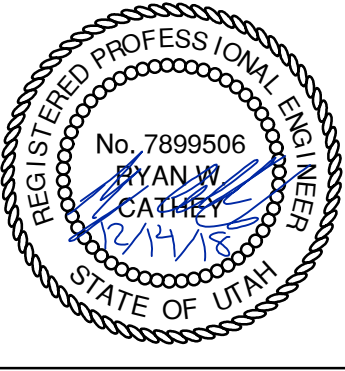


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OVERLOOK PH1, PH2, PH3 AT S.P.M.
KEY SHEET

TCC JOB NUMBER: 18-200.23 DATE SUBMITTED: 12.14.2018

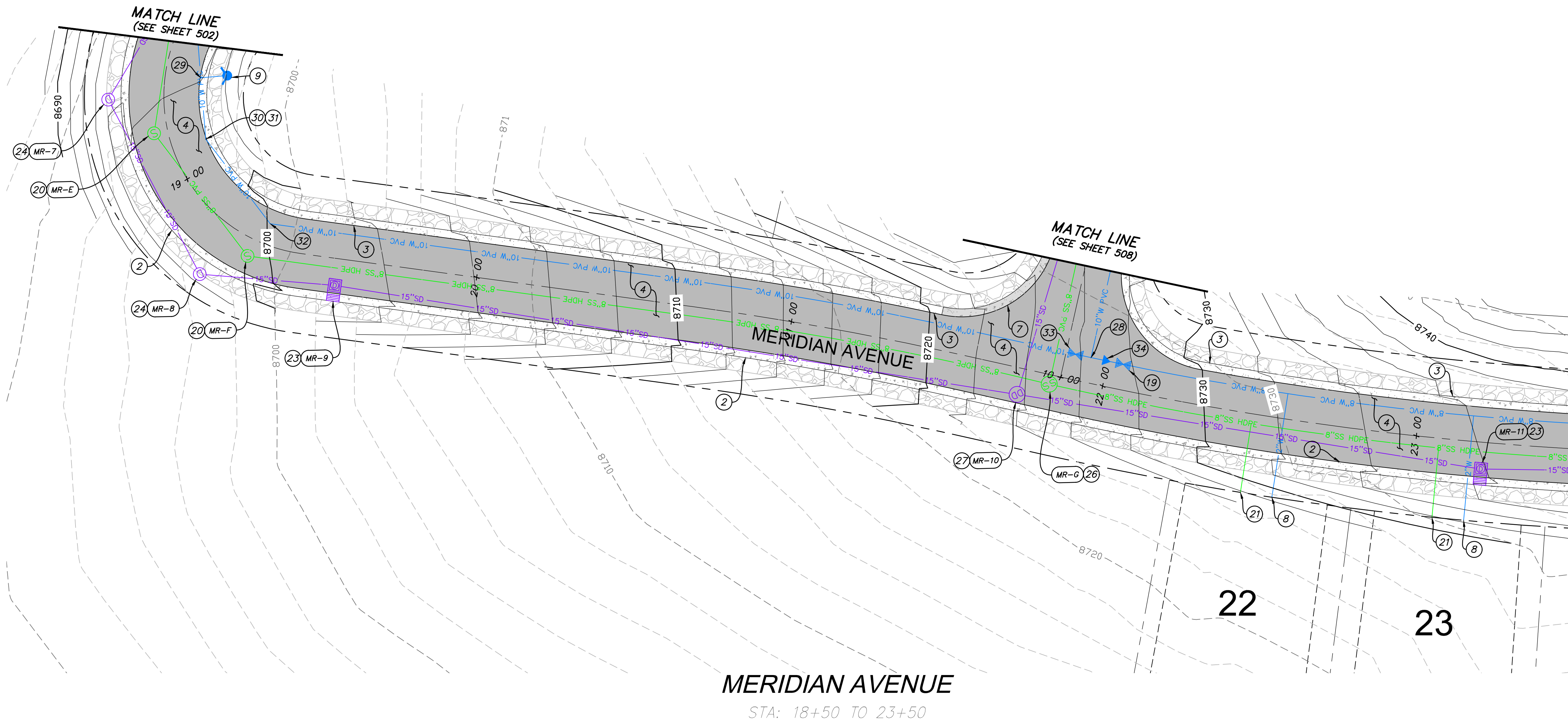


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500
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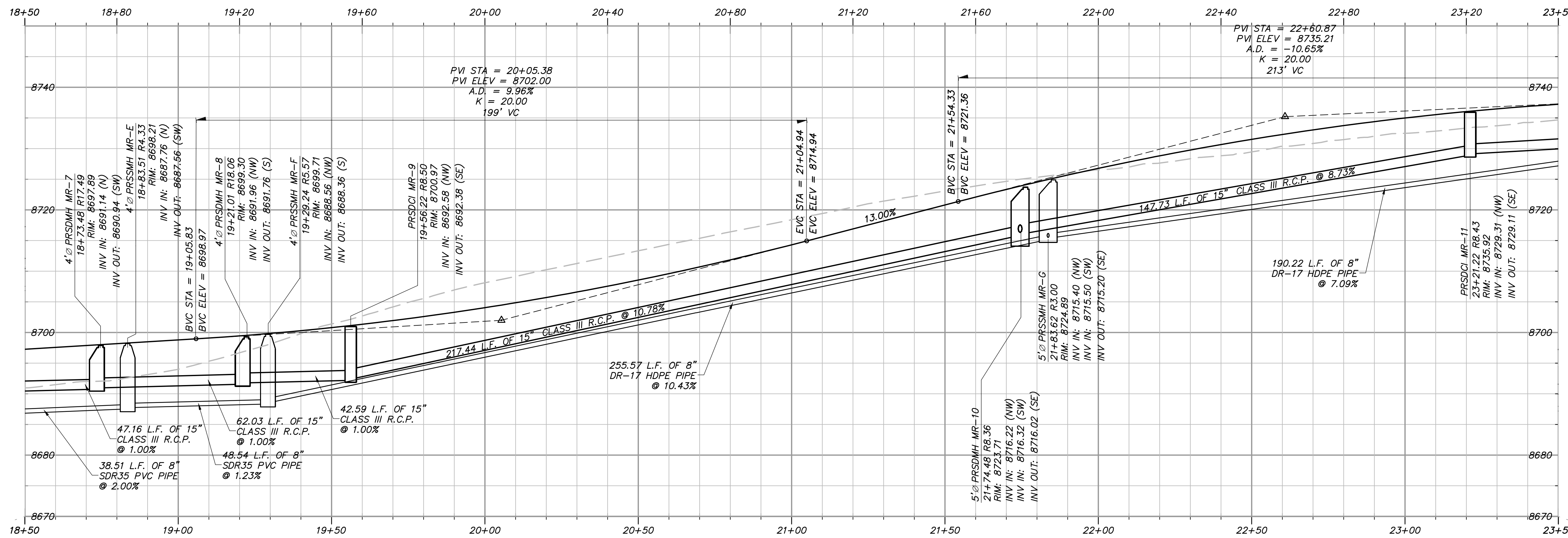
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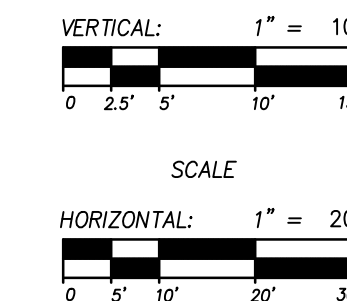


MERIDIAN AVENUE

STA: 18+50 TO 23+50



PROFILE VIEW



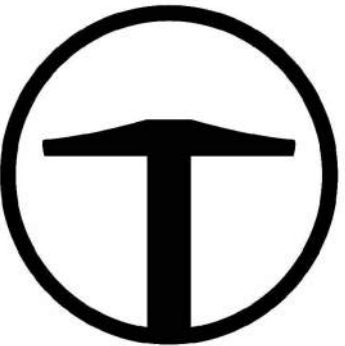
SITE SCOPE OF WORK:

NOTE: DRY UTILITY LAYOUT IS PRELIMINARY, PENDING COORDINATION WITH UTILITY AGENCIES.

PROVIDE, INSTALL AND/OR CONSTRUCT THE FOLLOWING PER THE SPECIFICATIONS GIVEN OR REFERENCED, THE DETAILS NOTED, AND/OR AS SHOWN ON THE CONSTRUCTION DRAWINGS:

- 1 MATCH EXISTING.
- 2 TYPE "F" CURB AND GUTTER PER APWA PLAN NO. 205 ON SHEET 700.
- 3 MODIFIED TYPE "F" CURB AND GUTTER PER DETAIL A/SHEET 700.
- 4 ASPHALT PAVEMENT PER PAVEMENT SECTION A/SHEET 003.
- 5 CONNECT TO EXISTING CATCH BASIN.
- 6 CONNECT TO EXISTING 18" WATER LINE.
- 7 TRANSITION FROM MODIFIED TYPE "F" CURB AND GUTTER TO APWA TYPE "F" CURB AND GUTTER. SEE CURB AND GUTTER DETAILS ON SHEET 700.
- 8 2" WATER SERVICE TAP & LATERAL PER PMWSID PLAN NO. 5415 ON SHEET 705 AND DETAIL A/SHEET 704.
- 9 FIRE HYDRANT ASSEMBLY PER PMWSID PLAN NO. 5115 ON SHEET 705.
- 10 AIR RELEASE ASSEMBLY PER APWA PLAN NO. 575 ON SHEET 704.
- 11 INSTALL PRESSURE REDUCING VALVE AND VAULT PER DETAIL SHEET 707.
- 12 18"x10" REDUCER WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562 ON SHEET 703.
- 13 12"x8" REDUCER WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562 ON SHEET 703.
- 14 8" TEE WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562 ON SHEET 703.
- 15 8"x6"x8" TEE WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562 ON SHEET 703.
- 16 8" 11.25' BEND WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562 ON SHEET 703.
- 17 8" 22.5' BEND WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562 ON SHEET 703.
- 18 8" 45' BEND WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562 ON SHEET 703.
- 19 8" GATE VALVE WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562 ON SHEET 703.
- 20 4" SANITARY SEWER MANHOLE PER APWA PLAN NO. 411 WITH FRAME AND COVER PER PMWSID PLAN NO. 4025 ON SHEET 702.
- 21 4" SANITARY SEWER LATERAL PER PMWSID PLAN NO. 4315 AND DETAIL A/SHEET 702.
- 22 2'x4' CATCH BASIN PER APWA PLAN NO. 315 ON SHEET 700.
- 23 COMBINATION INLET PER APWA PLAN NO. 316 ON SHEET 701.
- 24 4" PRECAST STORM DRAIN MANHOLE PER APWA PLAN NO. 341 ON SHEET 701 WITH SOLID LID PER APWA PLAN NO. 302.
- 25 CAP AND MARK UTILITY LINE FOR FUTURE CONNECTION.
- 26 5" SANITARY SEWER MANHOLE PER APWA PLAN NO. 411 WITH FRAME AND COVER PER PMWSID PLAN NO. 4025 ON SHEET 702.
- 27 5" PRECAST STORM DRAIN MANHOLE PER APWA PLAN NO. 341 ON SHEET 701 WITH SOLID LID PER APWA PLAN NO. 302.
- 28 10" TEE WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562 ON SHEET 703.
- 29 10"x6"x10" TEE WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562 ON SHEET 703.
- 30 10" 11.25' BEND WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562 ON SHEET 703.
- 31 10" 22.5' BEND WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562 ON SHEET 703.
- 32 10" 45' BEND WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562 ON SHEET 703.
- 33 10" GATE VALVE WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562 ON SHEET 703.
- 34 10"x8" REDUCER WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562 ON SHEET 703.
- 35 12"x10" REDUCER WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562 ON SHEET 703.
- 36 12" 22.5' BEND WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562 ON SHEET 703.

MATCH LINE (SEE SHEET 504)



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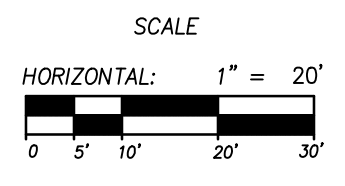
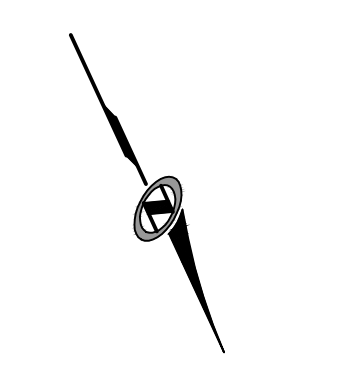
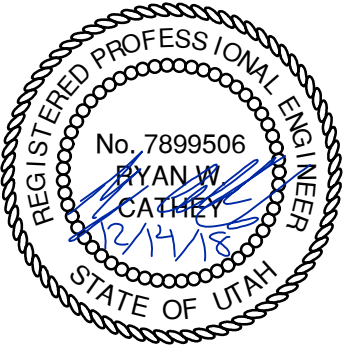
OVERLOOK PH1, PH2, PH3 AT S.P.M.

PLAN AND PROFILE

MERIDIAN AVENUE STA: 18+50 - 23+50

TCC JOB NUMBER: 18-200.23

DATE SUBMITTED: 12.14.2018

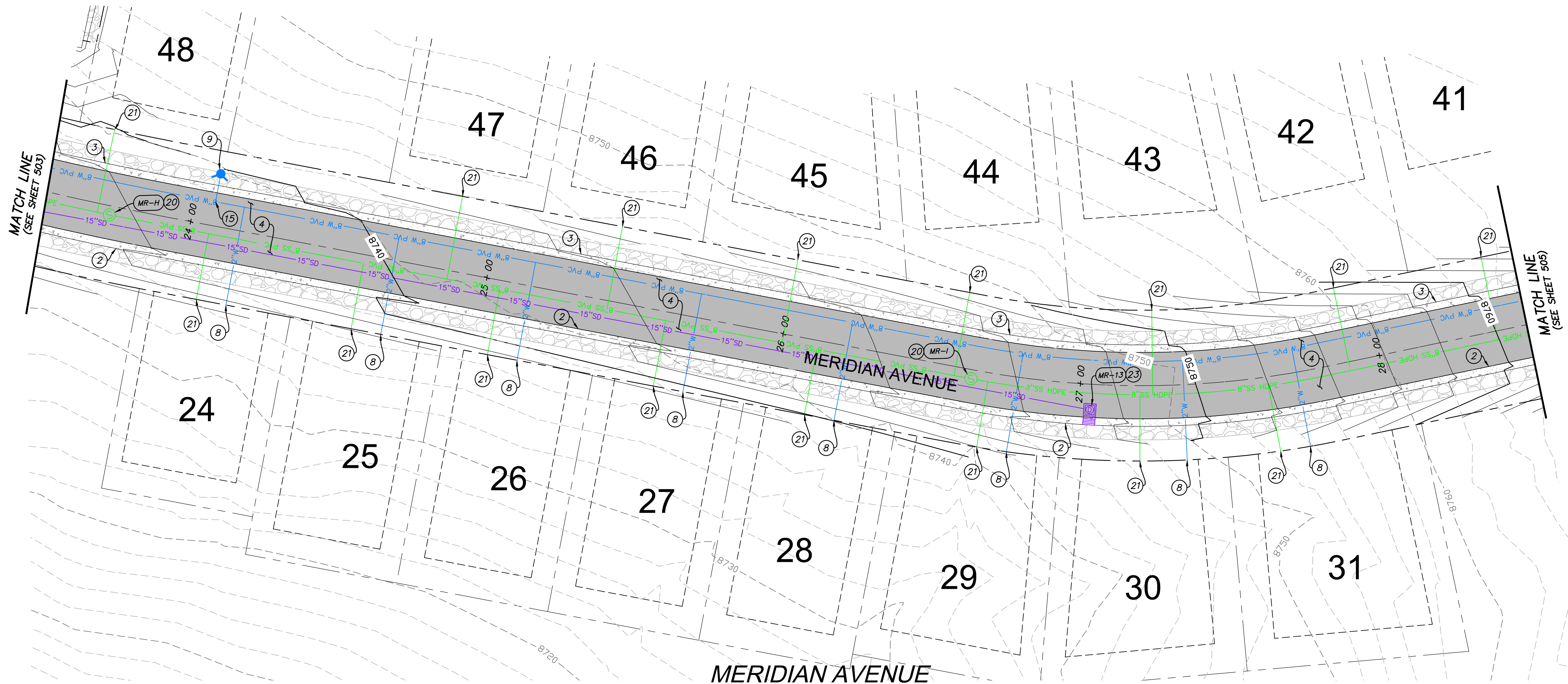


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503
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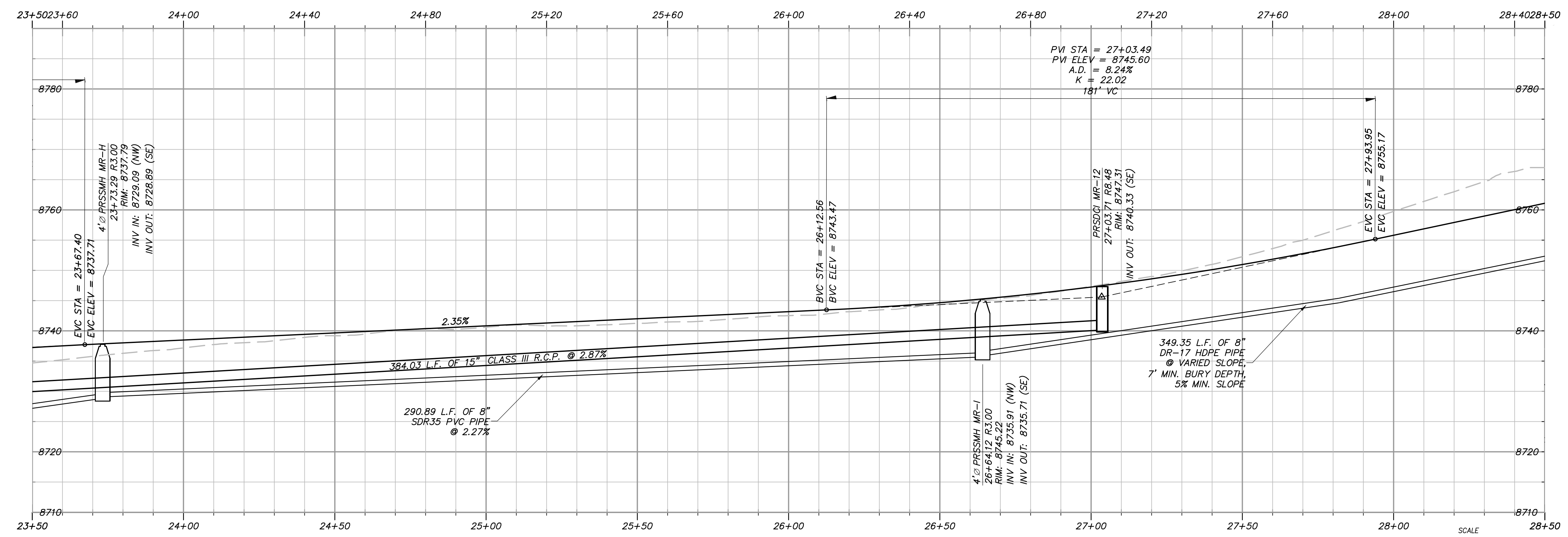


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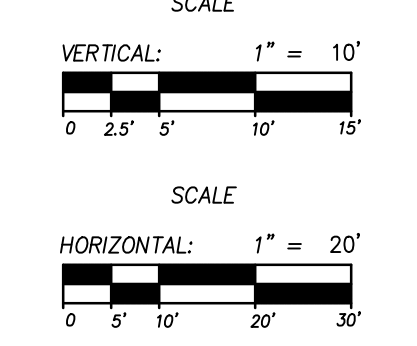
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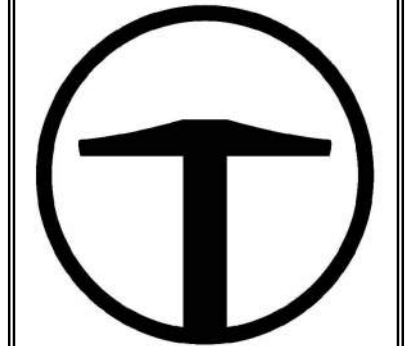
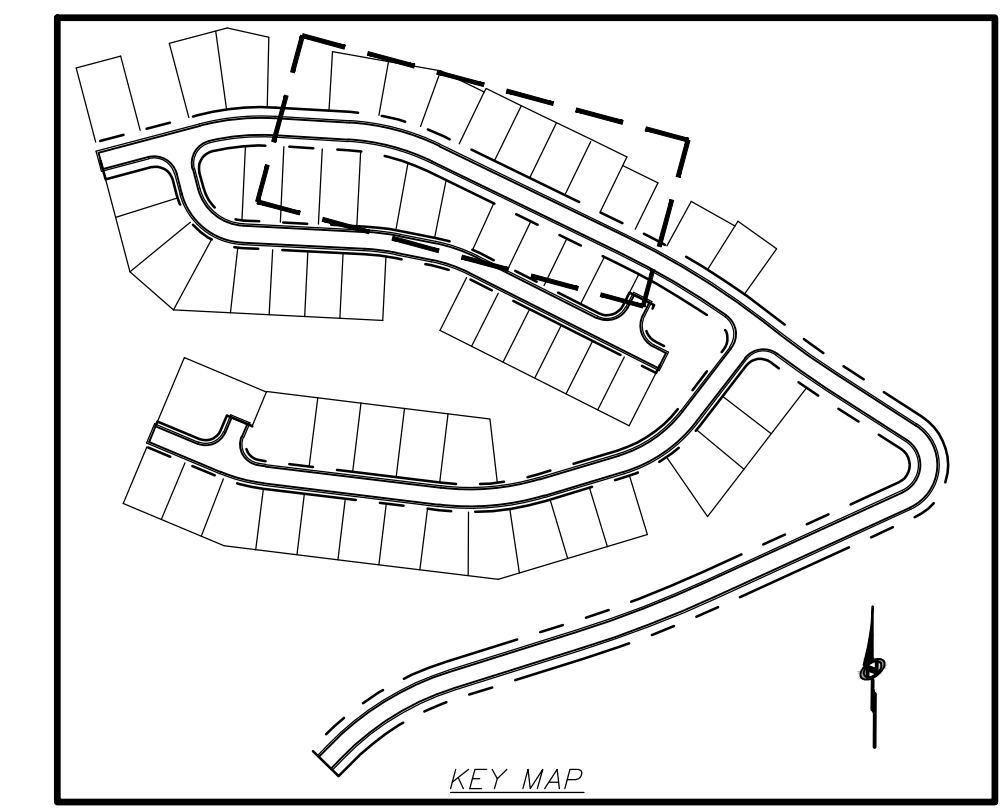
MERIDIAN AVENUE
STA: 23+50 TO 28+50



PROFILE VIEW

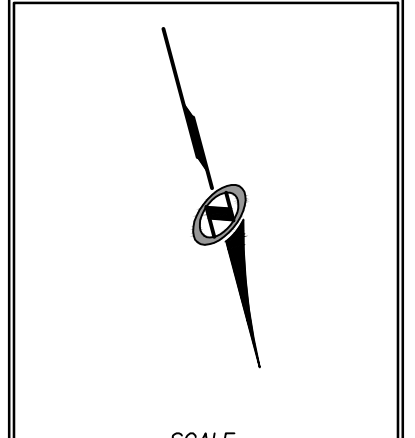
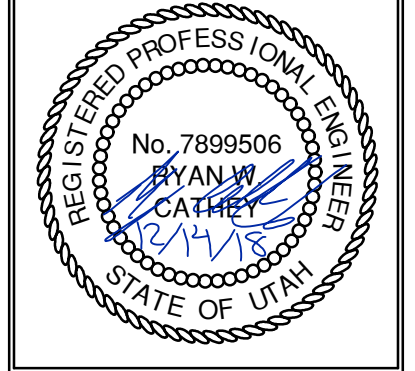


- SITE SCOPE OF WORK:**
- NOTE: DRY UTILITY LAYOUT IS PRELIMINARY, PENDING COORDINATION WITH UTILITY AGENCIES.
- PROVIDE, INSTALL AND/OR CONSTRUCT THE FOLLOWING PER THE SPECIFICATIONS GIVEN OR REFERENCED, THE DETAILS NOTED, AND/OR AS SHOWN ON THE CONSTRUCTION DRAWINGS:
- MATCH EXISTING.
 - TYPE "I" CURB AND GUTTER PER APWA PLAN NO. 205 ON SHEET 700.
 - MODIFIED TYPE "I" CURB AND GUTTER PER DETAIL A/SHEET 700.
 - ASPHALT PAVEMENT PER PAVEMENT SECTION A/SHEET 003.
 - CONNECT TO EXISTING CATCH BASIN.
 - CONNECT TO EXISTING 18" WATER LINE.
 - TRANSITION FROM MODIFIED TYPE "I" CURB AND GUTTER TO APWA TYPE "I" CURB AND GUTTER. SEE CURB AND GUTTER DETAILS ON SHEET 700.
 - 2" WATER SERVICE TAP & LATERAL PER PMWSD PLAN NO. 5415 ON SHEET 705 AND DETAIL A/SHEET 704.
 - FIRE HYDRANT ASSEMBLY PER PMWSD PLAN NO. 5115 ON SHEET 705.
 - AIR RELEASE ASSEMBLY PER APWA PLAN NO. 575 ON SHEET 704.
 - INSTALL PRESSURE REDUCING VALVE AND VAULT PER DETAIL SHEET 707.
 - 18"x10" REDUCER WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562 ON SHEET 703.
 - 12"x8" REDUCER WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562 ON SHEET 703.
 - 8" TEE WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562 ON SHEET 703.
 - 8"x6"x8" TEE WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562 ON SHEET 703.
 - 8" 11.25" BEND WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562 ON SHEET 703.
 - 8" 22.5" BEND WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562 ON SHEET 703.
 - 8" 45" BEND WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562 ON SHEET 703.
 - 8" GATE VALVE WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562 ON SHEET 703.
 - 4" SANITARY SEWER MANHOLE PER APWA PLAN NO. 411 WITH FRAME AND COVER PER PMWSD PLAN NO. 4025 ON SHEET 702.
 - 4" SANITARY SEWER LATERAL PER PMWSD PLAN NO. 4315 AND DETAIL A/SHEET 702.
 - 2'x4' CATCH BASIN PER APWA PLAN NO. 315 ON SHEET 700.
 - COMBINATION INLET PER APWA PLAN NO. 316 ON SHEET 701.
 - 4" PRECAST STORM DRAIN MANHOLE PER APWA PLAN NO. 341 ON SHEET 701 WITH SOLID LID PER APWA PLAN NO. 302.
 - CAP AND MARK UTILITY LINE FOR FUTURE CONNECTION.
 - 5" SANITARY SEWER MANHOLE PER APWA PLAN NO. 411 WITH FRAME AND COVER PER PMWSD PLAN NO. 4025 ON SHEET 702.
 - 5" PRECAST STORM DRAIN MANHOLE PER APWA PLAN NO. 341 ON SHEET 701 WITH SOLID LID PER APWA PLAN NO. 302.
 - 10" TEE WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562 ON SHEET 703.
 - 10"x6"x10" TEE WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562 ON SHEET 703.
 - 10" 11.25" BEND WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562 ON SHEET 703.
 - 10" 22.5" BEND WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562 ON SHEET 703.
 - 10" 45" BEND WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562 ON SHEET 703.
 - 10" GATE VALVE WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562 ON SHEET 703.
 - 10"x8" REDUCER WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562 ON SHEET 703.
 - 12"x10" REDUCER WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562 ON SHEET 703.
 - 12" 22.5" BEND WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562 ON SHEET 703.



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OVERLOOK PH1, PH2, PH3 AT S.P.M.
PLAN AND PROFILE
MURRAY AVENUE STA: 23+50 - 28+50

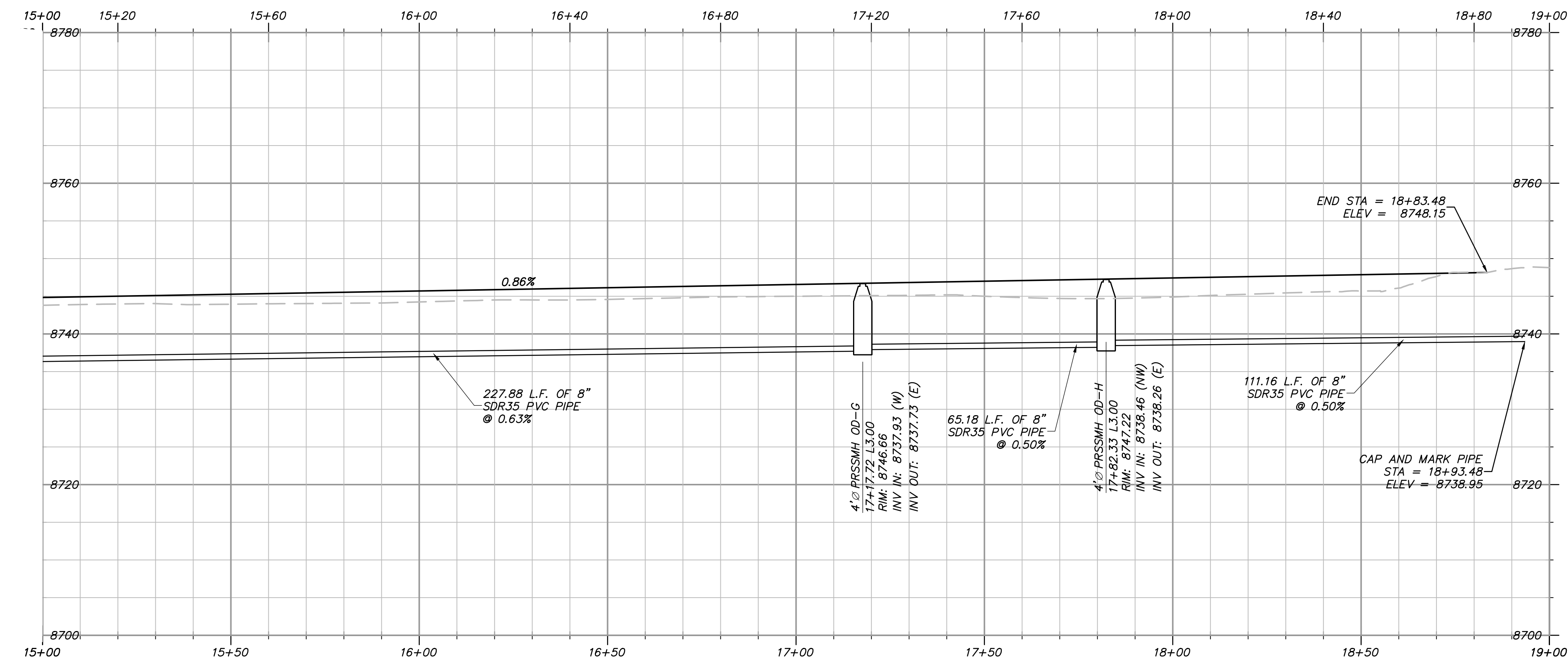
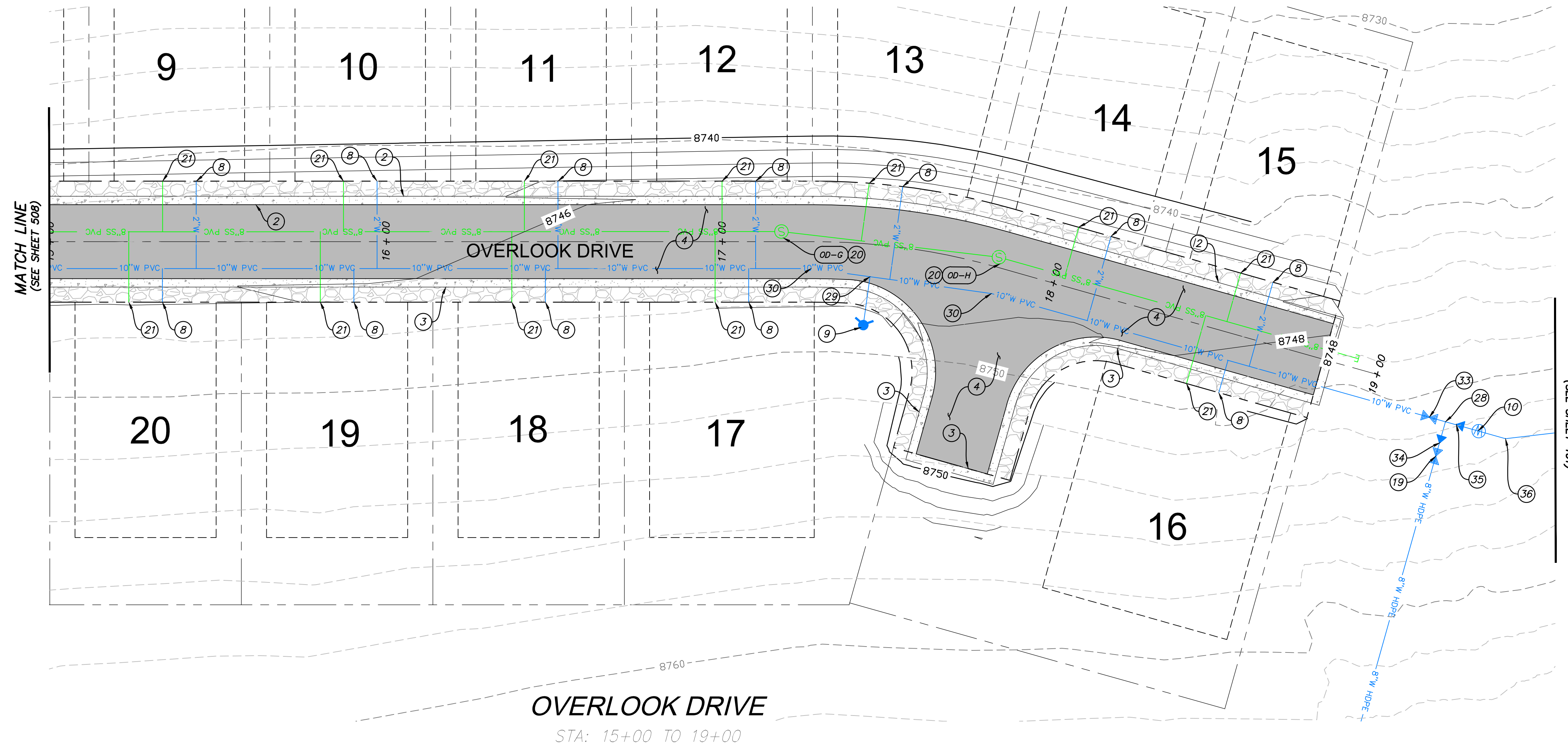


TCC JOB NUMBER: 18-200.23
DATE SUBMITTED: 12.14.2018
SHEET NUMBER
504
15 OF 32



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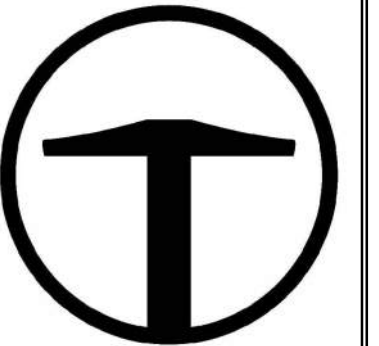
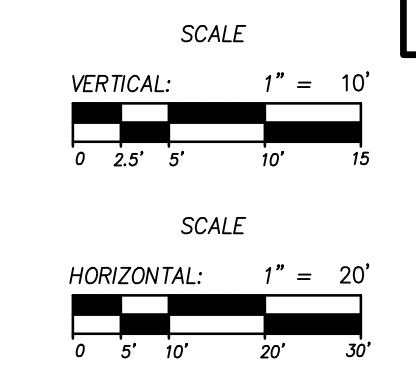
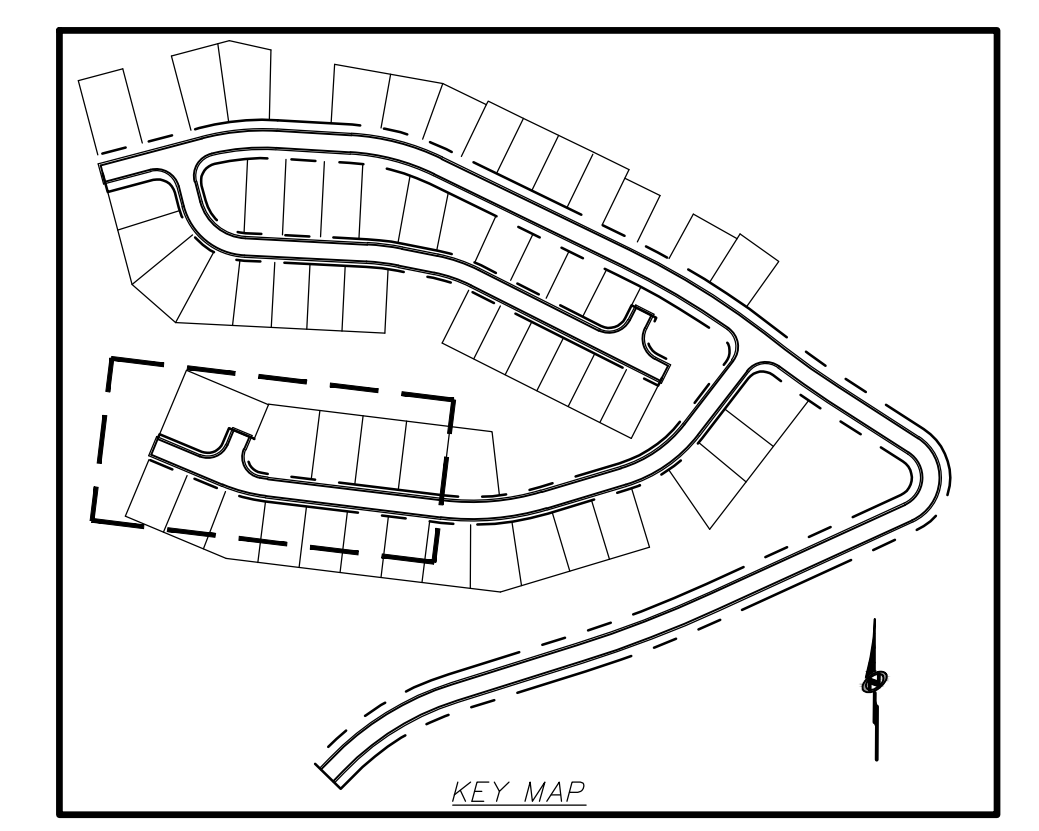
PROFILE VIEW

SITE SCOPE OF WORK:

- NOTE: DRY UTILITY LAYOUT IS PRELIMINARY, PENDING COORDINATION WITH UTILITY AGENCIES.
- PROVIDE, INSTALL AND/OR CONSTRUCT THE FOLLOWING PER THE SPECIFICATIONS GIVEN OR REFERENCED, THE DETAILS NOTED, AND/OR AS SHOWN ON THE CONSTRUCTION DRAWINGS:
- MATCH EXISTING.
 - TYPE "F" CURB AND GUTTER PER APWA PLAN NO. 205 ON SHEET 700.
 - MODIFIED TYPE "F" CURB AND GUTTER PER DETAIL A/SHEET 700.
 - ASPHALT PAVEMENT PER PAVEMENT SECTION A/SHEET 003.
 - CONNECT TO EXISTING CATCH BASIN.
 - CONNECT TO EXISTING 18" WATER LINE.
 - TRANSITION FROM MODIFIED TYPE "F" CURB AND GUTTER TO APWA TYPE "F" CURB AND GUTTER. SEE CURB AND GUTTER DETAILS ON SHEET 700.
 - 2" WATER SERVICE TAP & LATERAL PER PMWSD PLAN NO. 5415 ON SHEET 705 AND DETAIL A/SHEET 704.
 - FIRE HYDRANT ASSEMBLY PER PMWSD PLAN NO. 5115 ON SHEET 705.
 - AIR RELEASE ASSEMBLY PER APWA PLAN NO. 575 ON SHEET 704.
 - INSTALL PRESSURE REDUCING VALVE AND VAULT PER DETAIL SHEET 707.
 - 18"x10" REDUCER WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562 ON SHEET 703.
 - 12"x8" REDUCER WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562 ON SHEET 703.
 - 8" TEE WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562 ON SHEET 703.
 - 8"x6"x8" TEE WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562 ON SHEET 703.
 - 8" 11.25" BEND WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562 ON SHEET 703.
 - 8" 22.5" BEND WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562 ON SHEET 703.
 - 8" 45" BEND WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562 ON SHEET 703.
 - 8" GATE VALVE WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562 ON SHEET 703.
 - 4" SANITARY SEWER MANHOLE PER APWA PLAN NO. 411 WITH FRAME AND COVER PER PMWSD PLAN NO. 4025 ON SHEET 702.
 - 4" SANITARY SEWER LATERAL PER PMWSD PLAN NO. 4315 AND DETAIL A/SHEET 702.
 - 2'x4' CATCH BASIN PER APWA PLAN NO. 315 ON SHEET 700.
 - COMBINATION INLET PER APWA PLAN NO. 316 ON SHEET 701.
 - 4" PRECAST STORM DRAIN MANHOLE PER APWA PLAN NO. 341 ON SHEET 701 WITH SOLID LID PER APWA PLAN NO. 302.
 - CAP AND MARK UTILITY LINE FOR FUTURE CONNECTION.
 - 5" SANITARY SEWER MANHOLE PER APWA PLAN NO. 411 WITH FRAME AND COVER PER PMWSD PLAN NO. 4025 ON SHEET 702.
 - 5" PRECAST STORM DRAIN MANHOLE PER APWA PLAN NO. 341 ON SHEET 701 WITH SOLID LID PER APWA PLAN NO. 302.
 - 10" TEE WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562 ON SHEET 703.
 - 10"x6"x10" TEE WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562 ON SHEET 703.
 - 10" 11.25" BEND WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562 ON SHEET 703.
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 - 12" 22.5" BEND WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562 ON SHEET 703.

MATCH LINE (SEE SHEET 401)

MATCH LINE (SEE SHEET 508)



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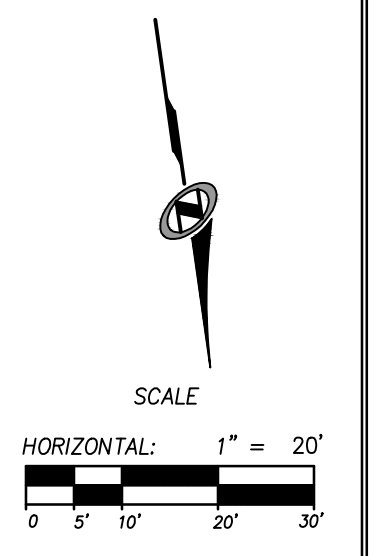
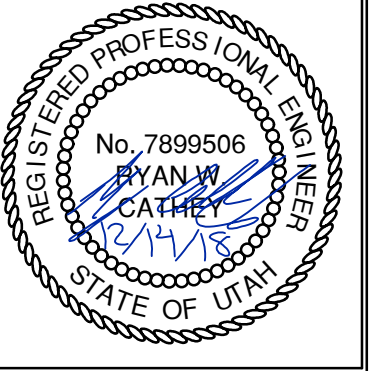
OVERLOOK PH1, PH2, PH3 AT S.P.M.

PLAN AND PROFILE

OVERLOOK DRIVE STA: 15+00 - 19+00

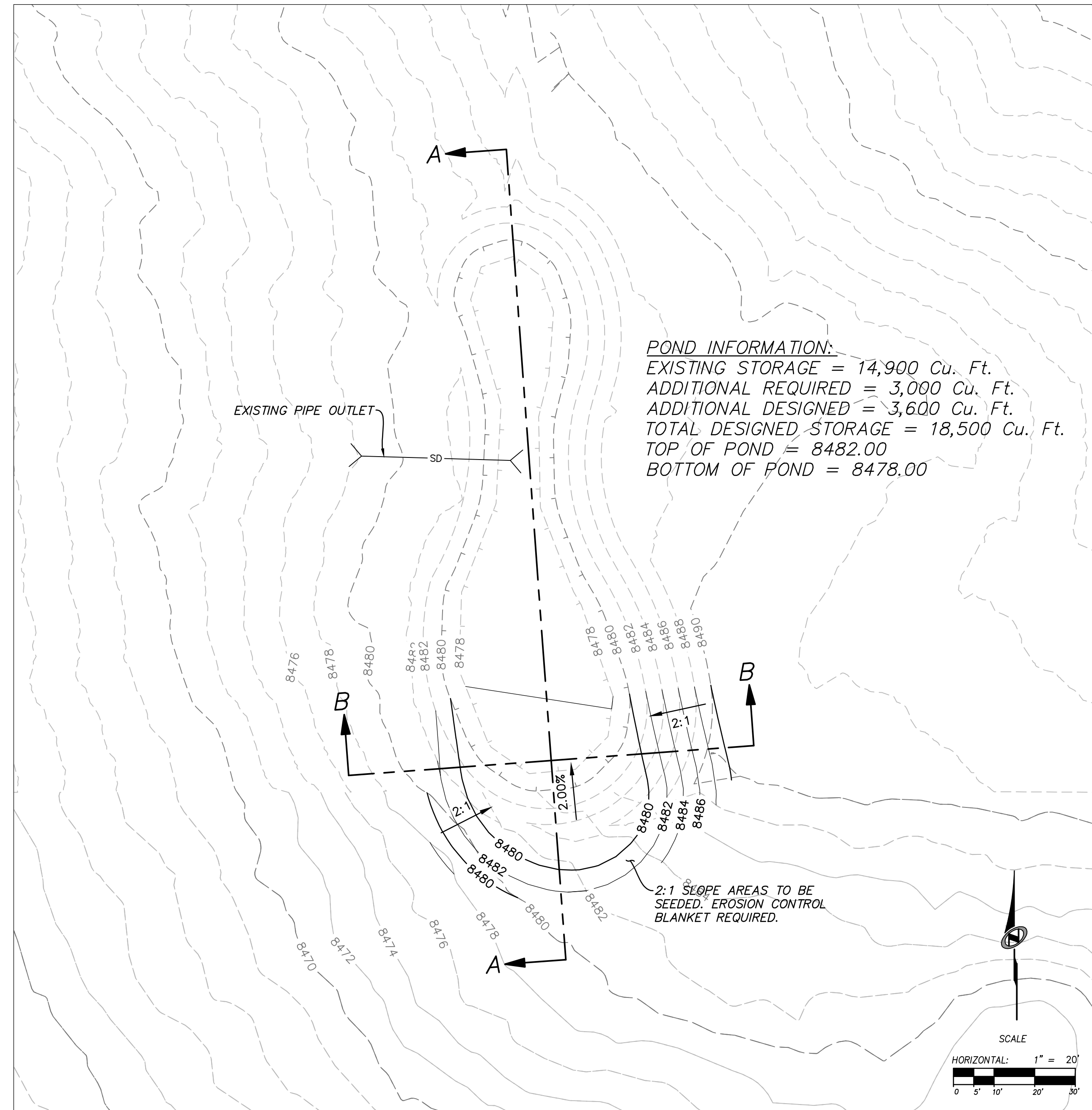
TCC JOB NUMBER: 18-200.23

DATE SUBMITTED: 12.14.2018

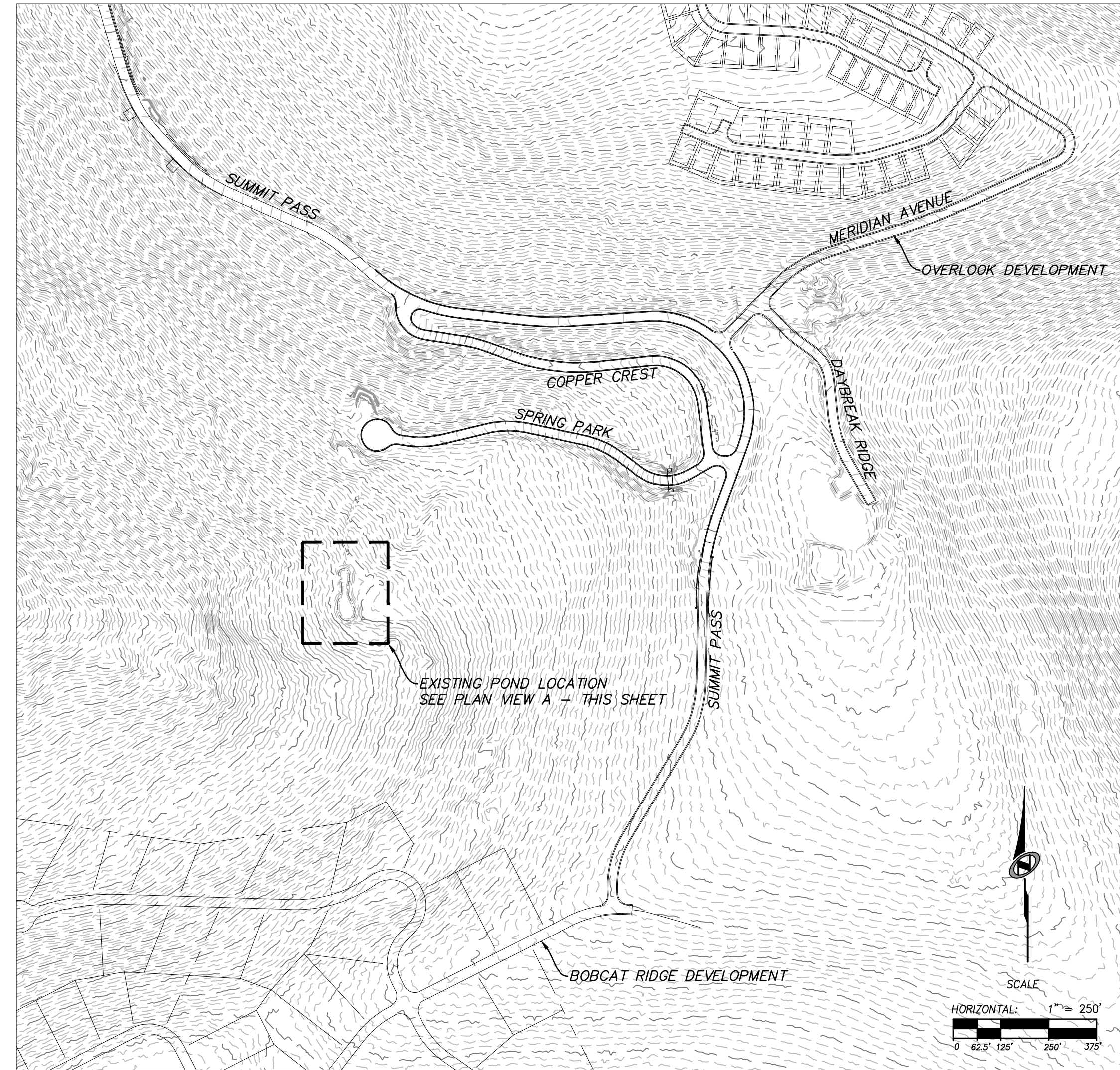


SHEET NUMBER
509
20 OF 32

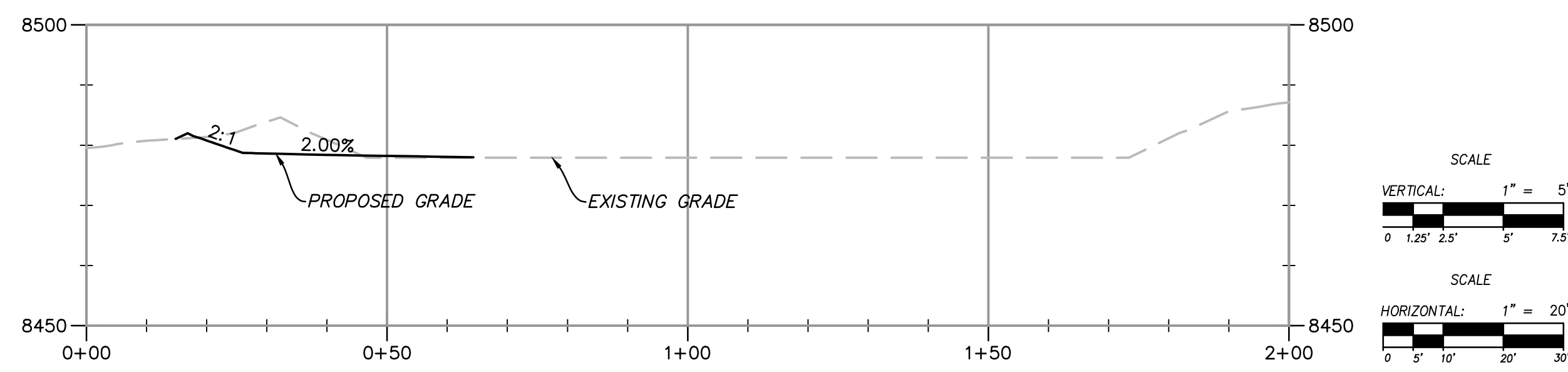




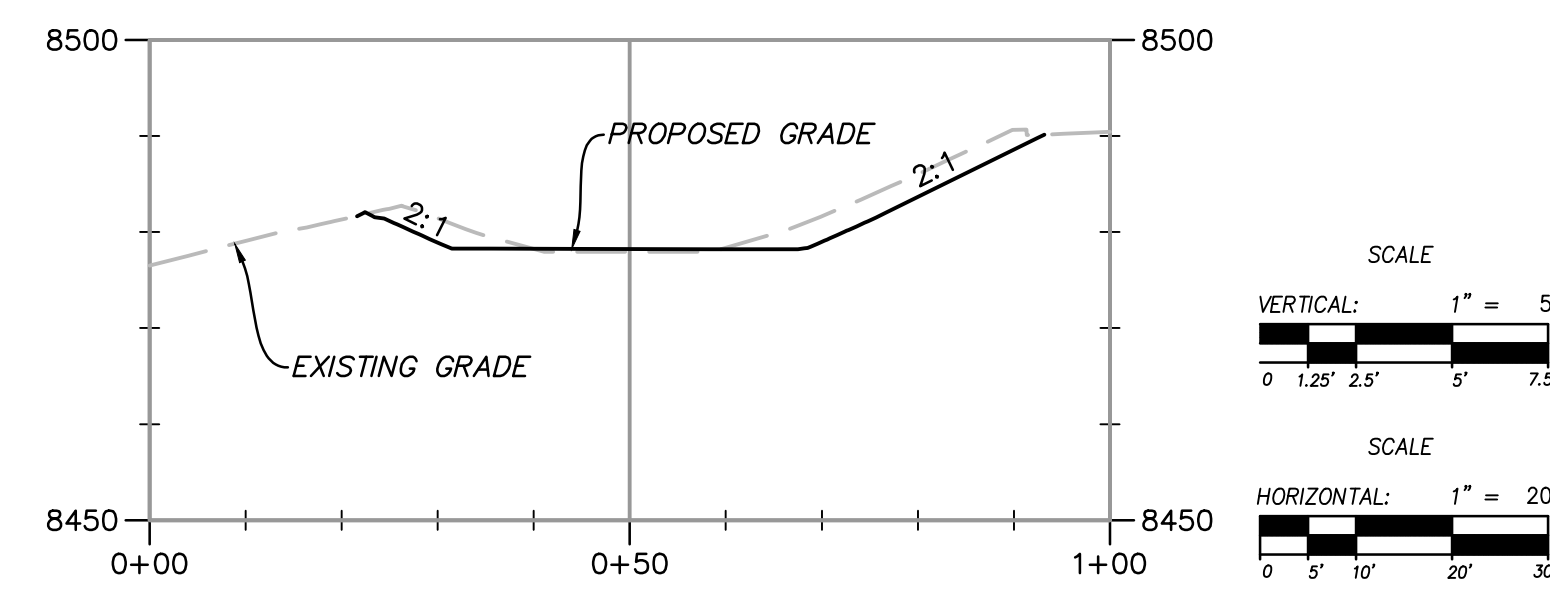
PLAN VIEW A



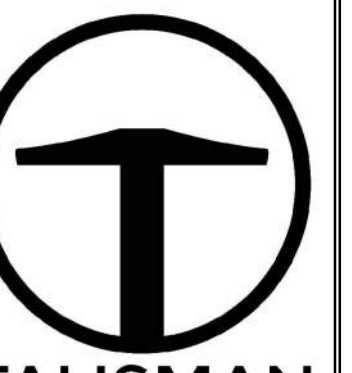
KEY MAP



SECTION A-A



SECTION B-B



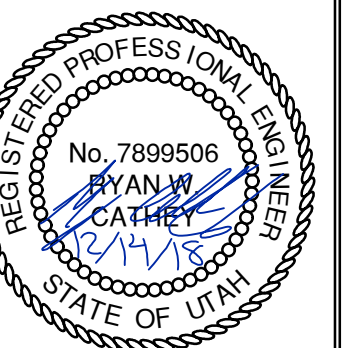
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NO.	BY	DATE	REVISIONS

OVERLOOK PH1, PH2, PH3 AT S.P.M.
 EXISTING POND MODIFICATION

DATE SUBMITTED: 12.14.2018

TCC JOB NUMBER: 18-200.23



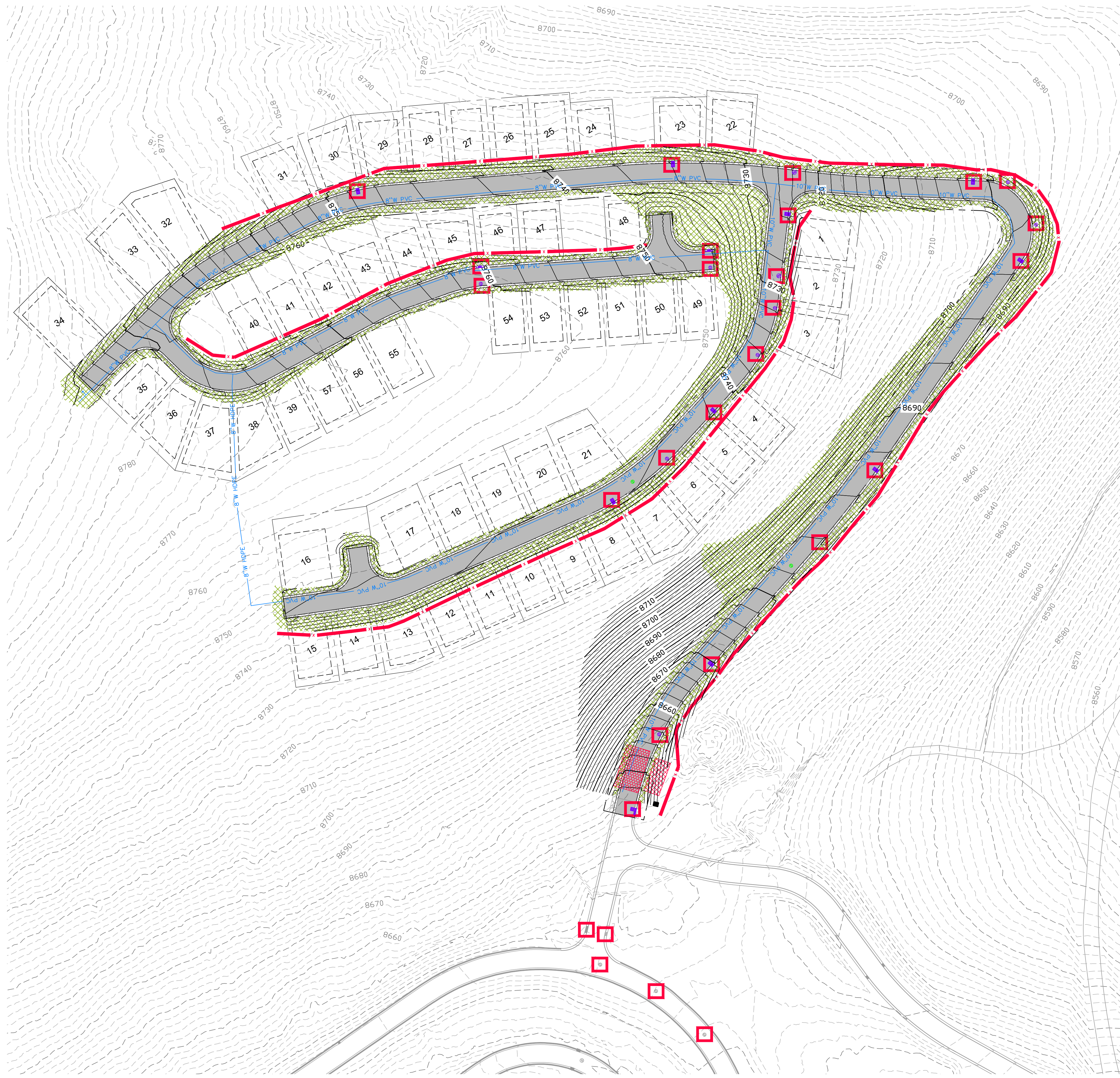
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510


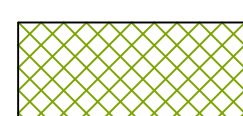
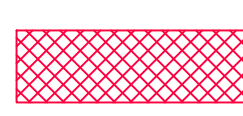
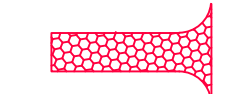


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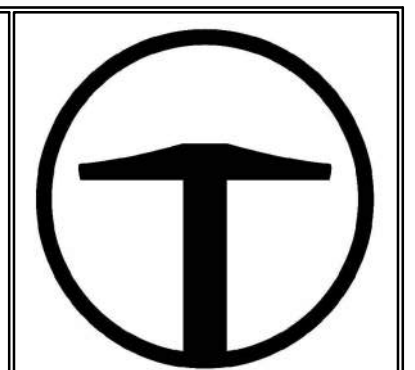
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LEGEND

-  HATCHING INDICATES AREAS LESS THAN 3:1 SLOPE TO BE SEEDED FOR REVEGETATION.
-  HATCHING INDICATES SLOPES 3:1 OR STEEPER TO BE SEEDED AND REQUIRING EROSION CONTROL BLANKET.
-  INSTALL 15' X 30' VEHICLE WASH DOWN AREA WITH 1"-2.5" COARSE AGGREGATE PLACED A MINIMUM 8" THICK. SUPPLY WATER FOR VEHICLE WASH DOWN.
-  STABILIZED CONSTRUCTION ENTRANCE FOR SITE INGRESS/EGRESS. IF ALTERNATE ACCESS POINTS ARE APPROVED BY OWNER, ADDITIONAL STABILIZED CONSTRUCTION ENTRANCES WILL BE REQUIRED.
-  INSTALL INLET PROTECTION IN FORM OF CONCRETE BLOCKS / FILTER CLOTH / GRAVEL OR SILT SACK AT EXISTING AND PROPOSED CATCH BASINS AS SHOWN ON PLAN.
-  INSTALL SILT FENCE ALONG DOWN GRADIENT LIMITS OF DISTURBANCE AS SHOWN ON PLAN.

- EXPOSED SLOPES:**
 ANY EXPOSED SLOPE THAT WILL REMAIN UNTOUCHED FOR LONGER THAN 14 DAYS MUST BE STABILIZED BY ONE OR MORE OF THE FOLLOWING METHODS:
- A) SPRAYING DISTURBED AREAS WITH A TACKIFIER VIA HYDROSEED. USE THE FOLLOWING SEED MIXTURE.
 - i. MEADOW BROME (RIGOR) 14 lb/AC
 - ii. ORCHARD GRASS 10 lb/AC
 - iii. ALFALFA (ADAK) 4 lb/AC
 - B) TRACKING STRAW PERPENDICULAR TO SLOPES
 - C) INSTALLING A LIGHT-WEIGHT, TEMPORARY EROSION CONTROL BLANKET

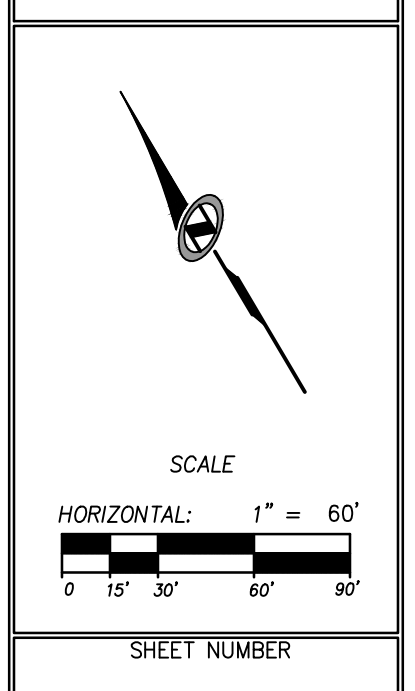
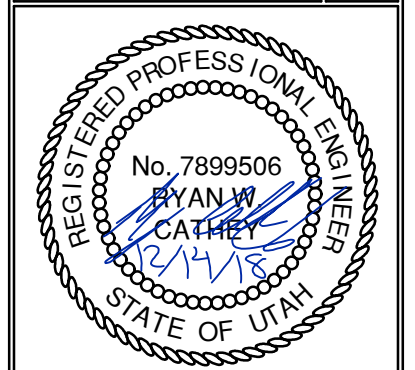


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OVERLOOK PH1, PH2, PH3 AT S.P.M.
 EROSION CONTROL PLAN

TCC JOB NUMBER: 18-200.23 DATE SUBMITTED: 12.14.2018

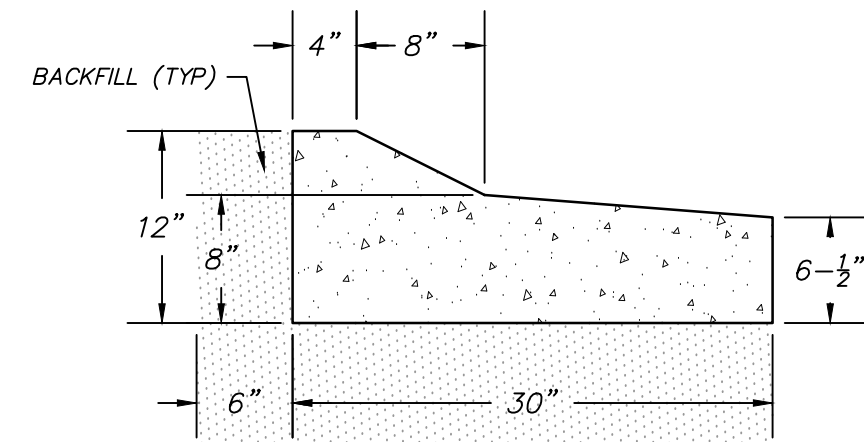


SHEET NUMBER
600
 22 OF 32



Curb and gutter

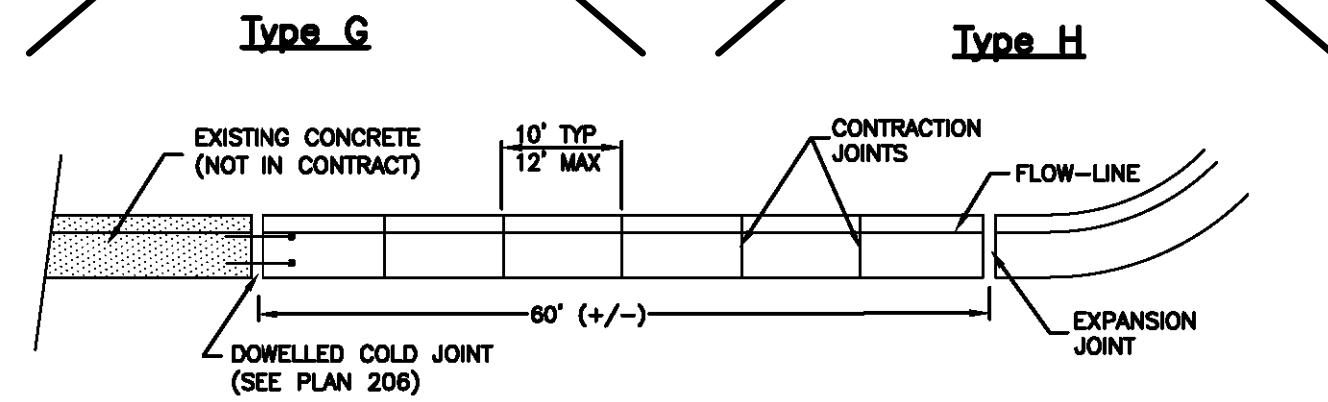
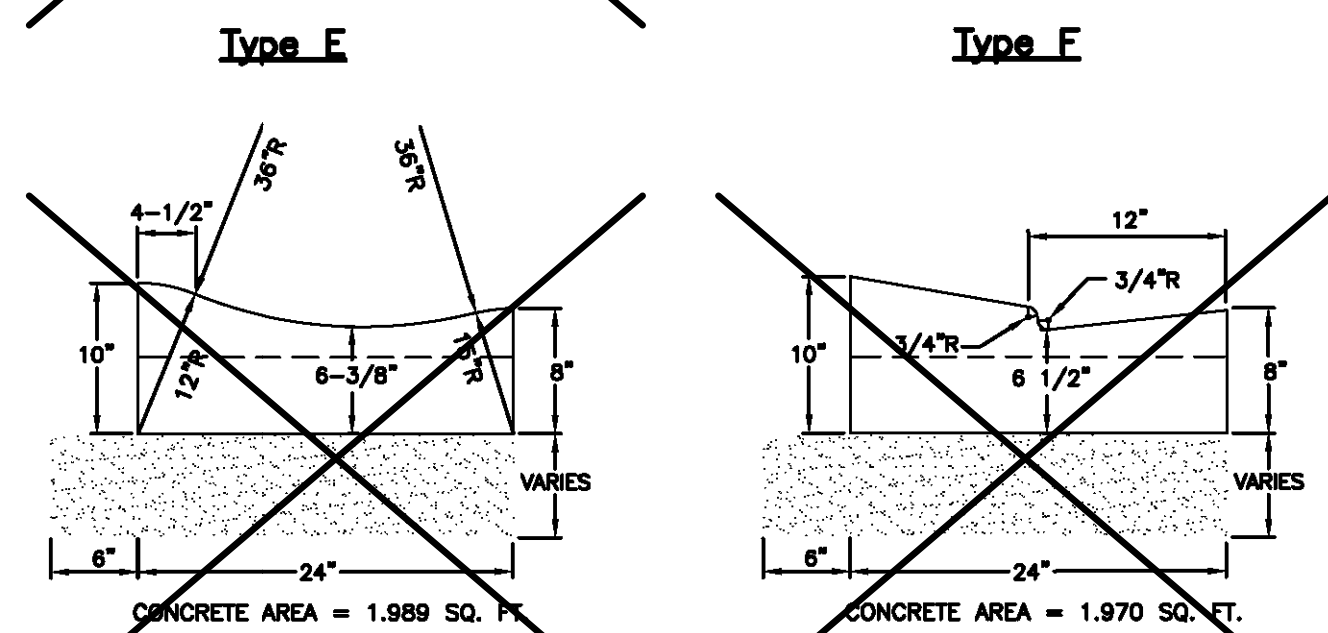
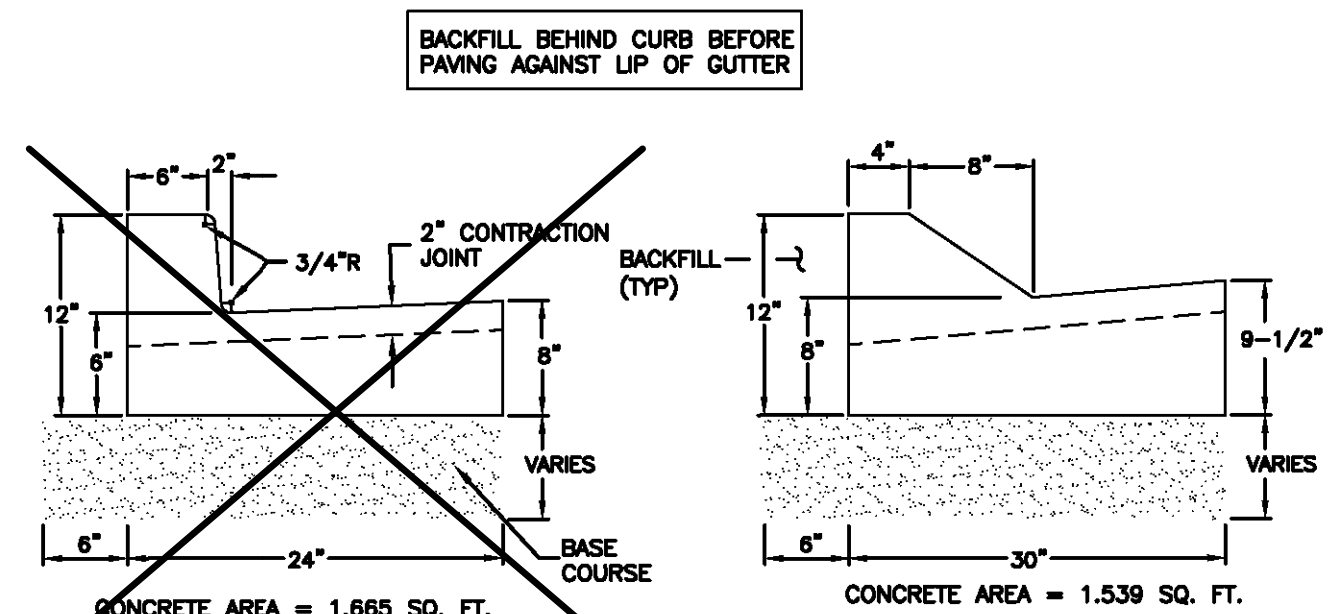
- GENERAL**
 - Variance from specified dimensions and slopes must be acceptable to the ENGINEER. System configuration may be changed at ENGINEER's discretion.
 - Additional requirements are specified in APWA Section 32 16 13.
- PRODUCTS**
 - Base Course: Untreated base course, APWA Section 32 11 23. 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 4000, 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.



MODIFIED TYPE "F" CURB AND GUTTER
NO SCALE

47 3/4" Grate and frame

- GENERAL**
 - The grate and frame fits cleanout box Type A in Plan 331.
- PRODUCTS**
 - Castings: Grey iron class 35 minimum per ASTM A 48, coated with asphalt based paint or better (except on machined surfaces).
- EXECUTION** (Not used)

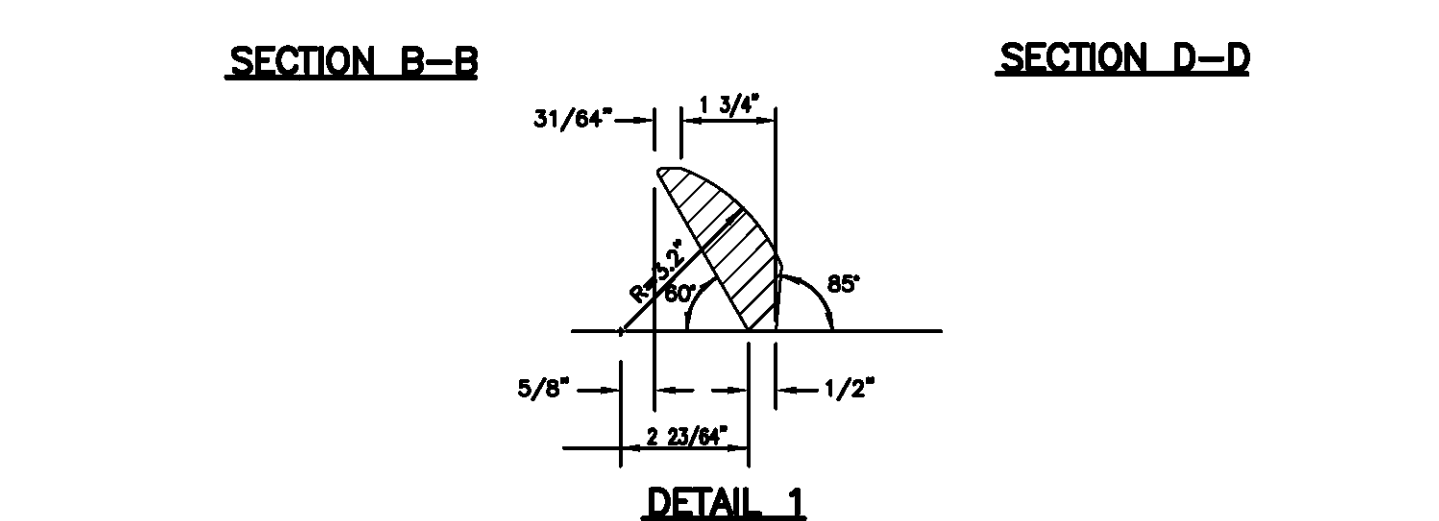
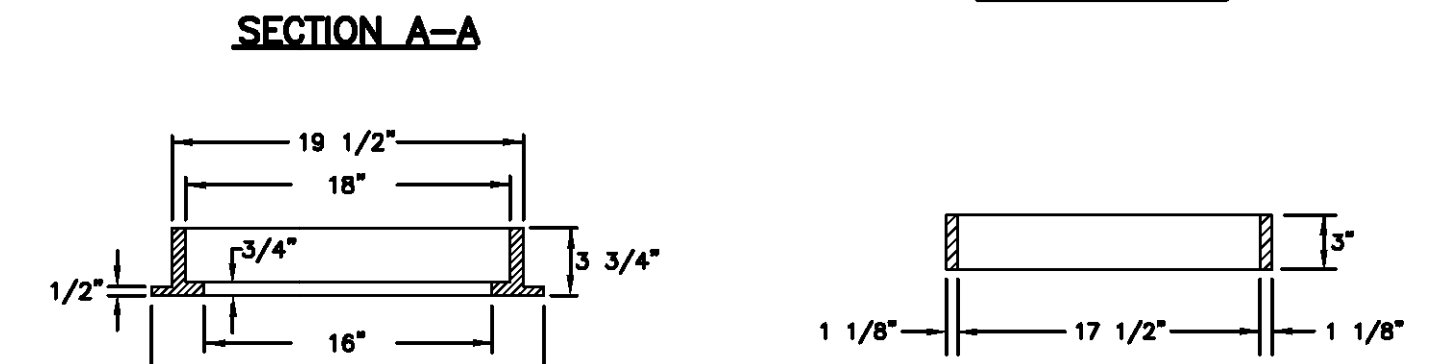
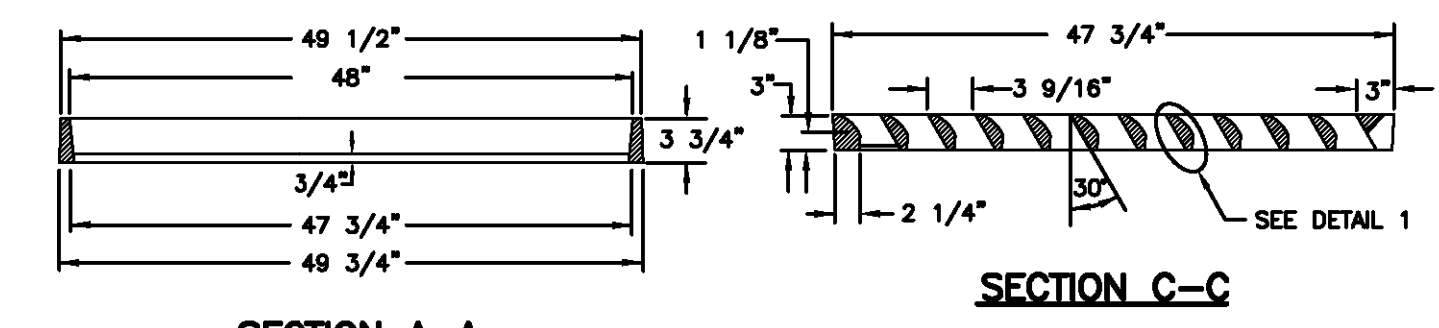
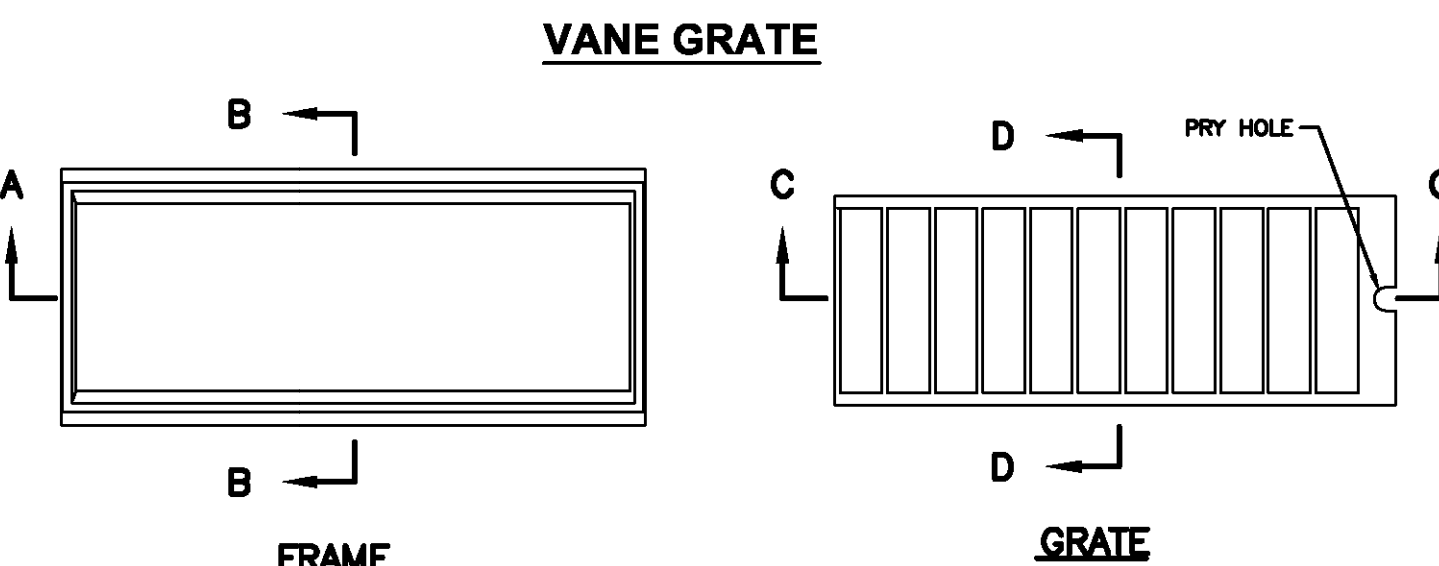


JOINT DETAIL

Curb and gutter

Plan 205

April 2011 29 Sheet 2 of 3 June 2006



47 3/4" Grate and frame

Plan 309

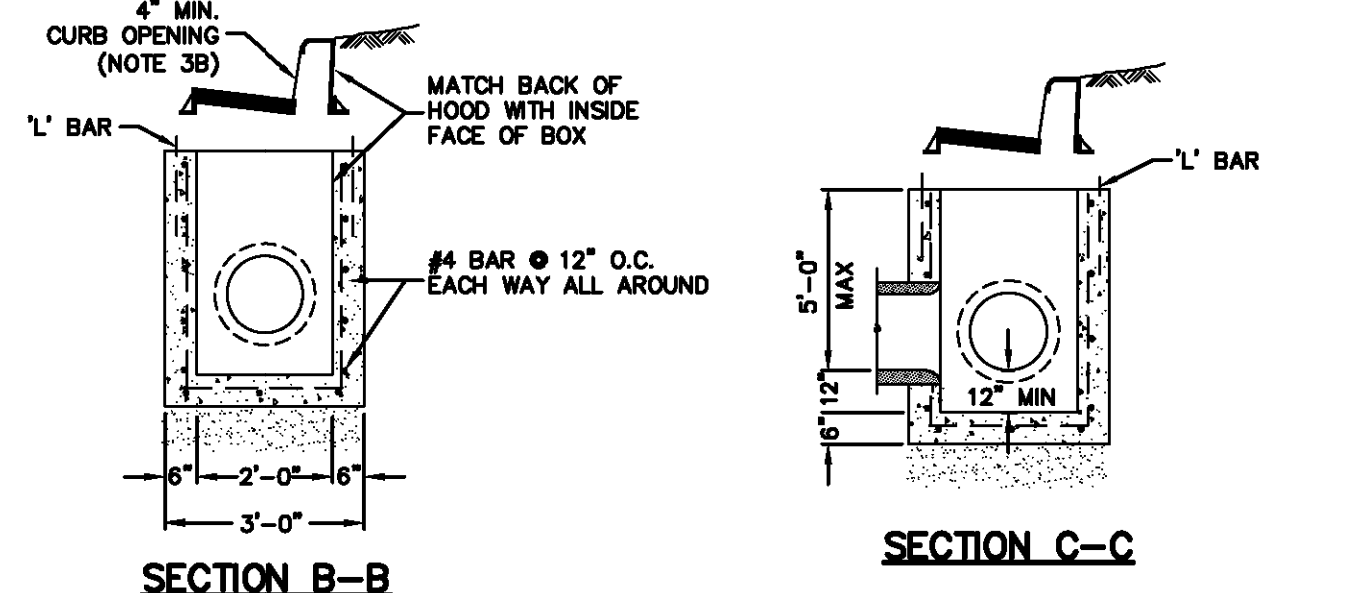
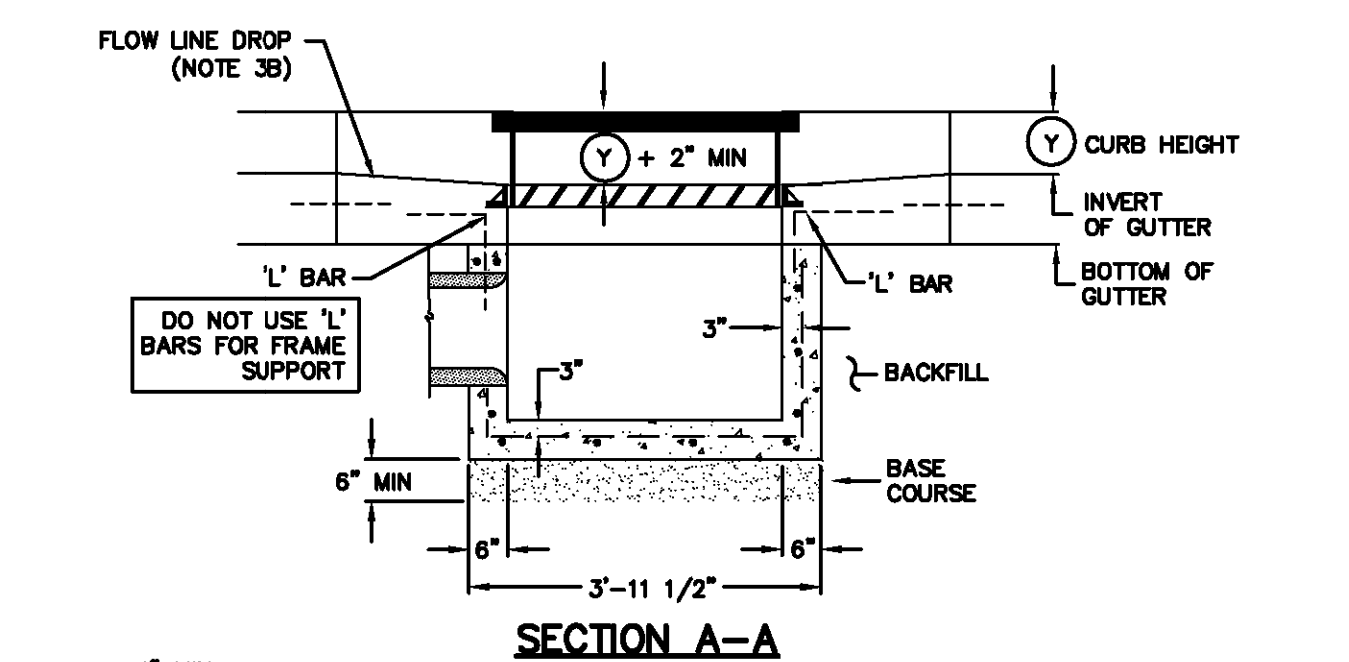
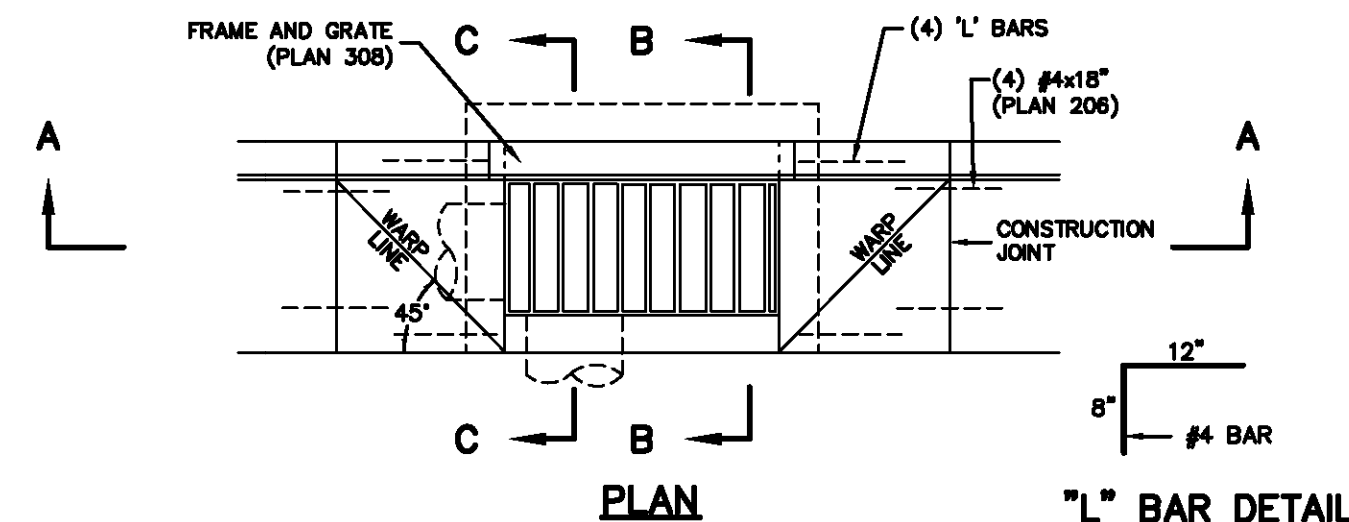
September 2010 149 Sheet 1 of 2

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 4000, APWA Section 03 30 04.
 - Reinforcement: Deformed, 60 ksi yield grade steel, ASTM A 615.
- 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.

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SINGLE GRATE



Catch basin

Plan 315

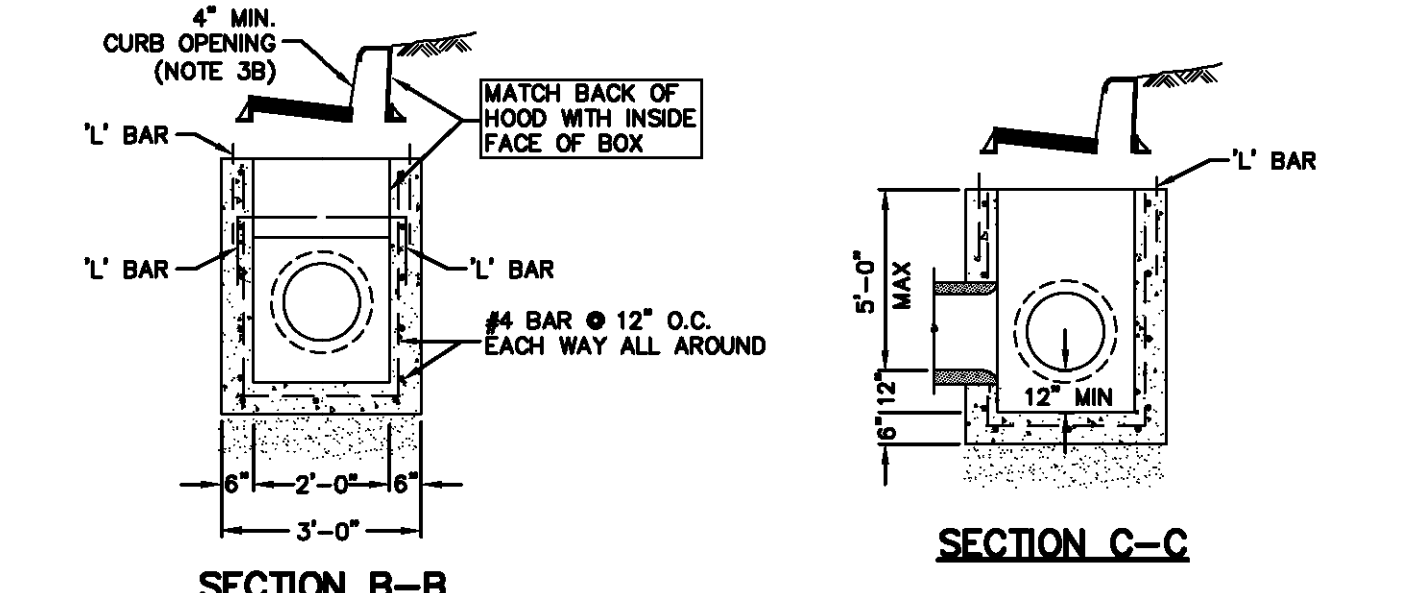
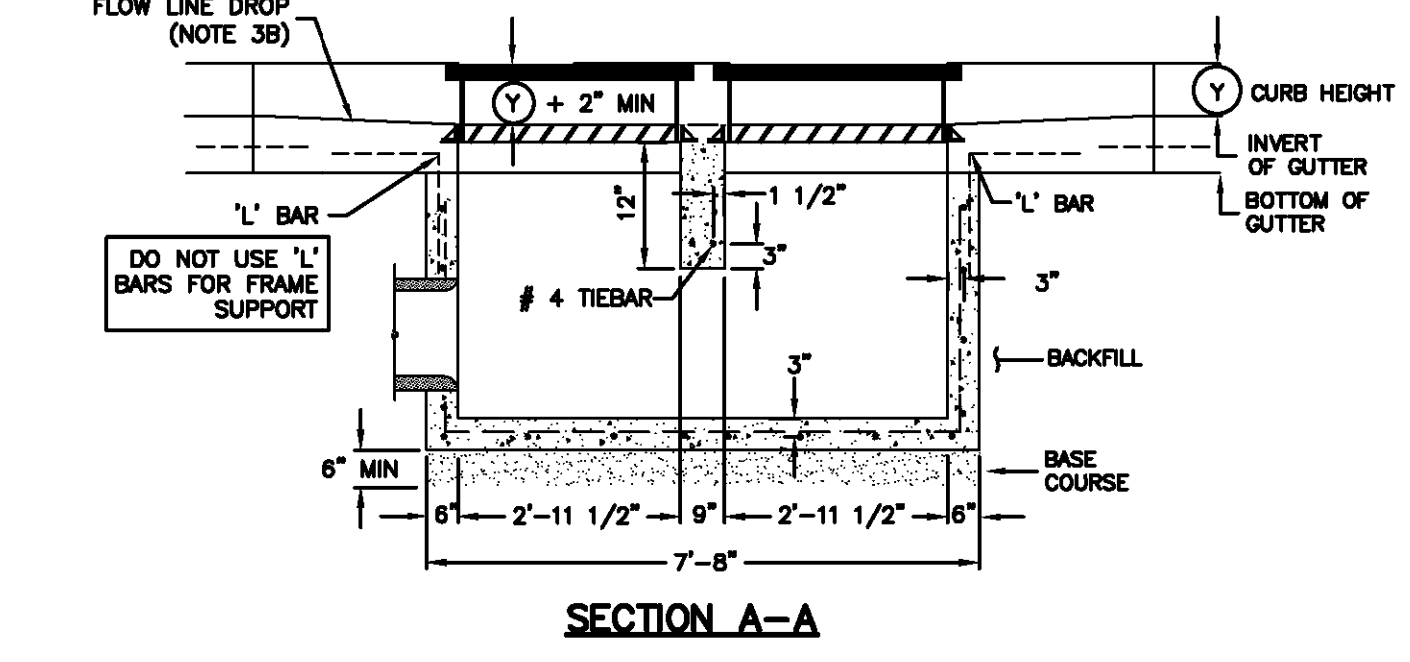
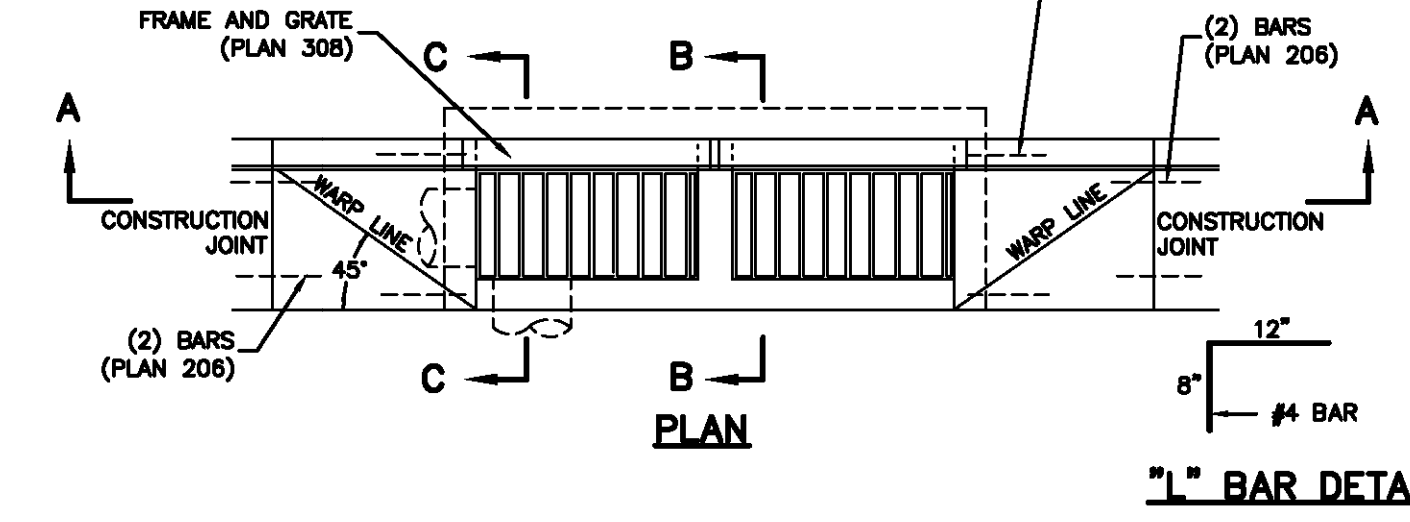
September 2010 155 Sheet 1 of 2

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 4000, APWA Section 03 30 04.
 - Reinforcement: Deformed, 60 ksi yield grade steel, ASTM A 615.
- 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.

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DOUBLE GRATE



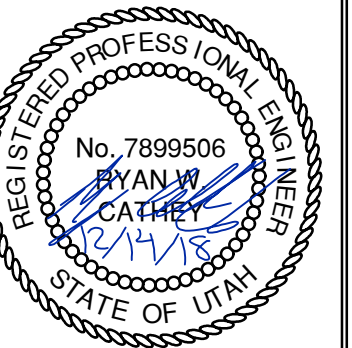
Catch basin - double grate

Plan 315

September 2010 157 Sheet 2 of 2



OVERLOOK PH1, PH2, PH3 AT S.P.M. DETAILS



DATE SUBMITTED: 12.14.2018

TCC JOB NUMBER: 18-200.23



SHEET NUMBER 700

23 OF 32

Combination catch basin and cleanout box

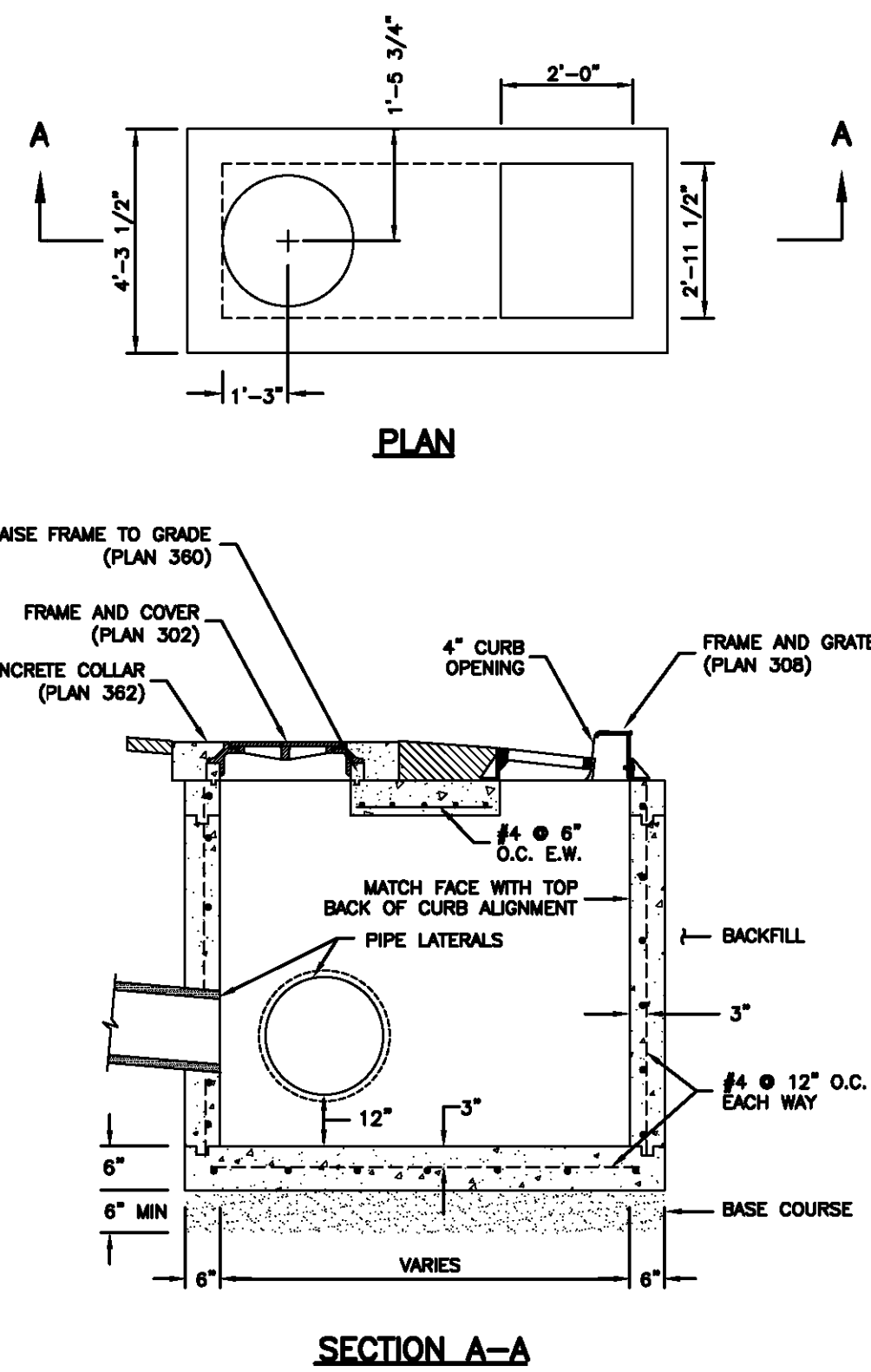
- GENERAL**

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.
- 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 4000, APWA Section 03 30 04.
 D. Reinforcement: Deformed, 60 ksi yield grade steel, ASTM A 615.
 E. Ladder Rungs: Plastic, or plastic coated steel typically 8-inches wide.
- 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.

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Combination catch basin and cleanout box

March 2011

159

Precast manhole

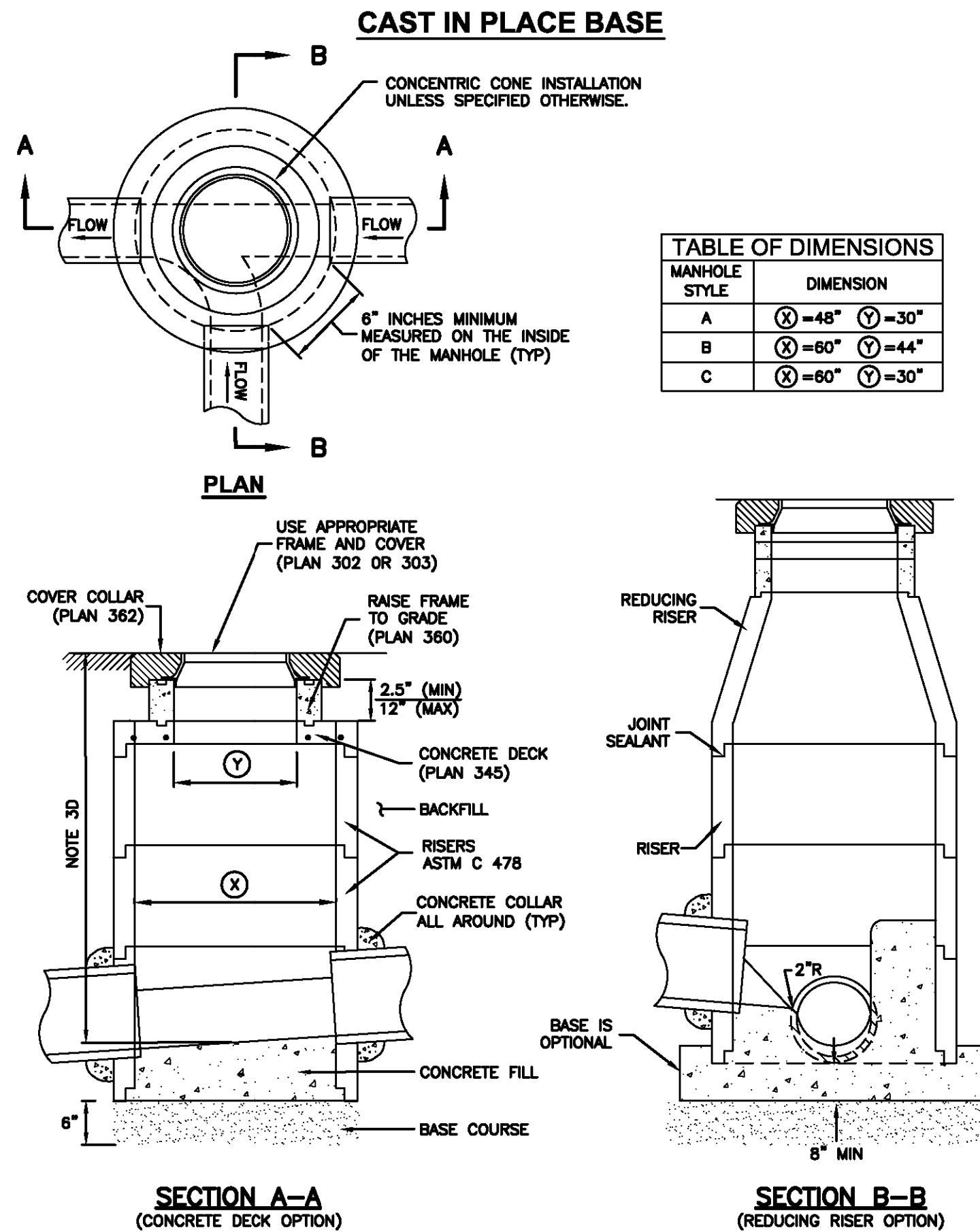
- GENERAL**

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.
- 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 4000, APWA Section 03 30 04.
 D. Riser and Reducing Riser: ASTM C 478.
 E. Joint Sealant: Rubber based, compressible.
 F. Grout: 2 parts sand to 1 part cement mortar, ASTM C 1329.
 G. Stabilization-Separation Geotextile: Moderate or high at CONTRACTOR's choice, APWA Section 31 05 19.
- 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 C 478 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.

186



Precast manhole

Plan 316

November 2010

187

Trench backfill

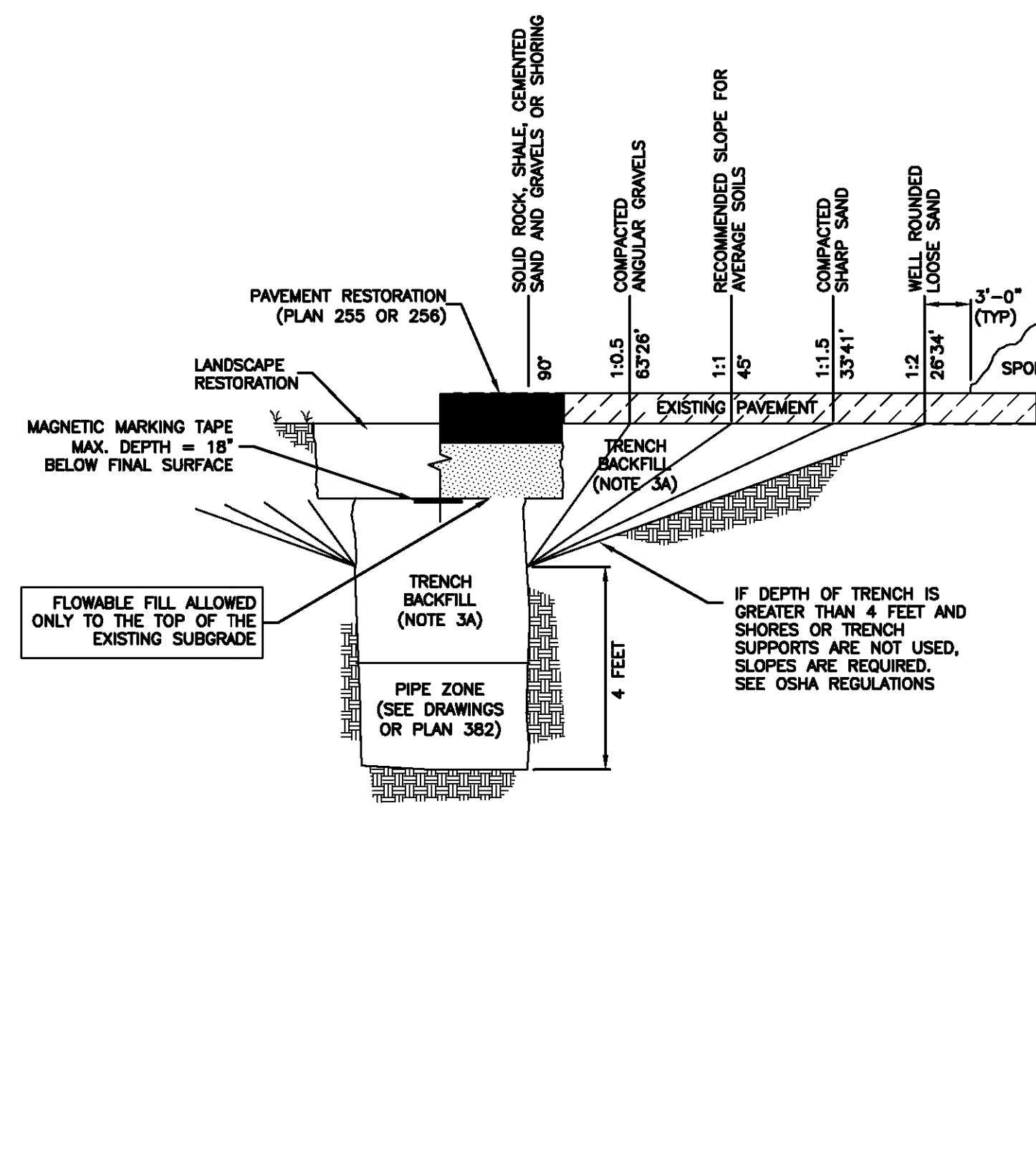
- GENERAL**

A. The drawing applies to backfilling the trench above the pipe zone.
- PRODUCTS**

A. Backfill: Common fill, APWA Section 31 05 13. Maximum particle size 3-inches.
 B. 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.
- EXECUTION**

A. Trench Backfill:
 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.
 4) Submission of quality control compaction test result data developed for haunching areas may be requested by ENGINEER at any time. Provide results of tests immediately upon request.
 B. Flowable Fill: When required, place controlled low strength material in the trench, APWA Section 31 05 15. Cure the fill before placing surface restorations.
 C. Surface Restoration:
 1) Landscaped Surface: Rake to match existing grade. Replace vegetation to match pre-construction conditions. Follow APWA Section 32 92 00 (turf or grass) or APWA Section 32 93 13 (ground cover) requirements.
 2) Paved Surface: Do not install asphalt or concrete surfacing until trench compaction is acceptable to ENGINEER. Follow APWA Section 33 05 25 (asphalt surfacing), or APWA Section 33 05 25 (concrete surfacing).

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Trench backfill

Plan 341

Sheet 1 of 2 January 2011

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Pipe zone backfill

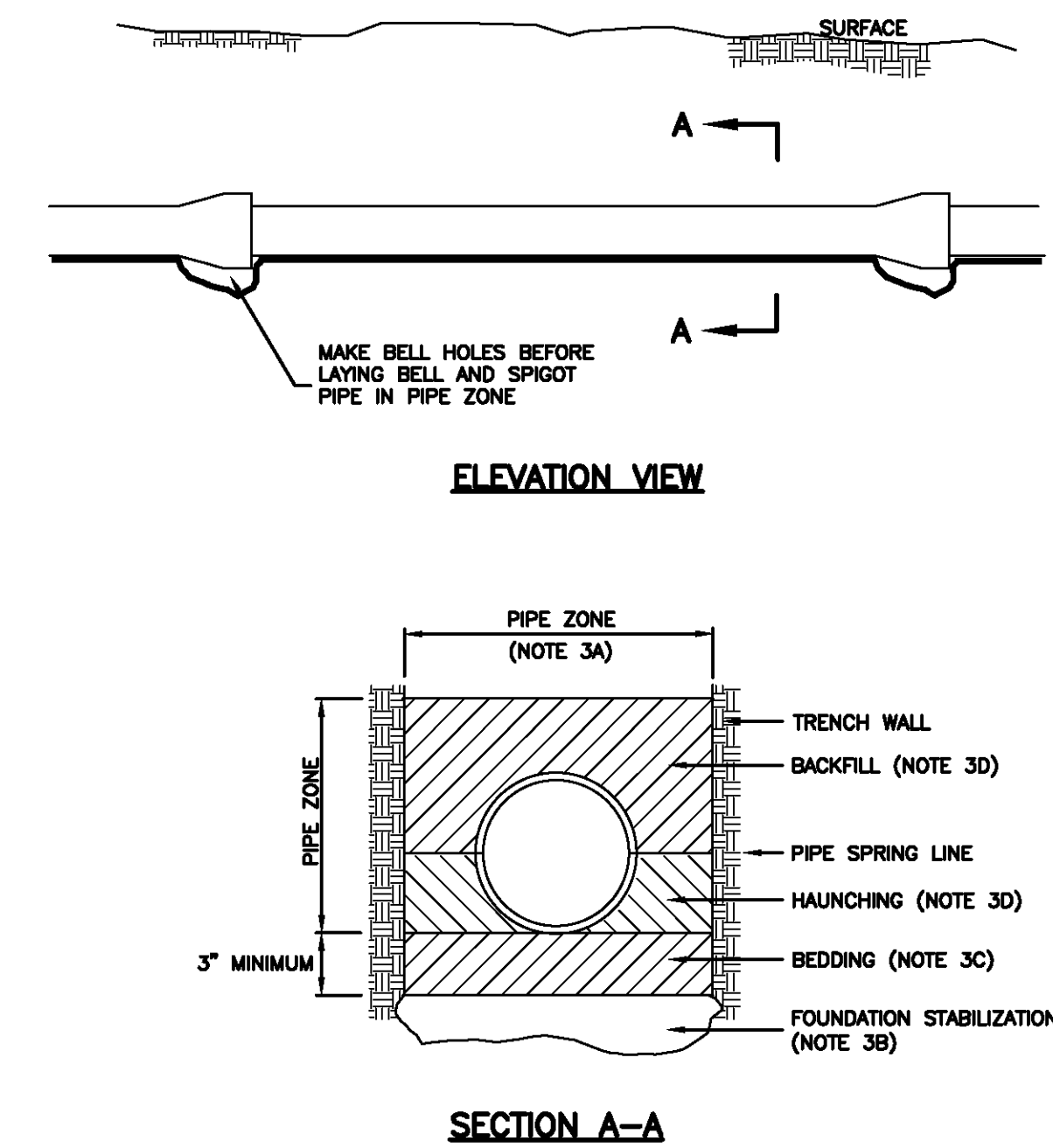
- GENERAL**

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.
- 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.
- 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. Base Course:
 1) Furnish untreated base course material unless specified otherwise by pipe manufacturer.
 2) 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.
 3) When using concrete, provide at least Class 2,000 per APWA Section 03 30 04.
 D. 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.

204

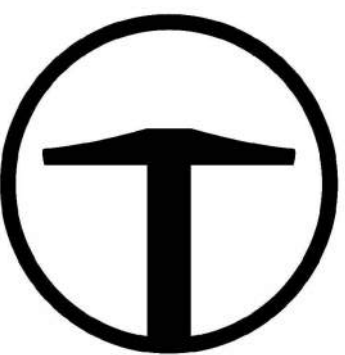


Pipe zone backfill

Plan 381

January 2011

205



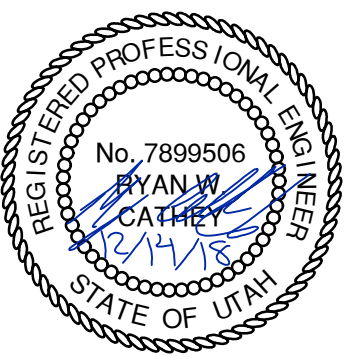
TALISMAN
 CIVIL CONSULTANTS
 6217 SOUTH STATE STREET
 SUITE 200
 MURRAY, UT 84107
 801.743.1300

OVERLOOK PH1, PH2, PH3 AT S.P.M.

DETAILS

DATE SUBMITTED: 12.14.2018

TCC JOB NUMBER: 18-200.23



REGISTERED PROFESSIONAL ENGINEER
 No. 7899506
 RYAN W. CATHERLY
 STATE OF UTAH

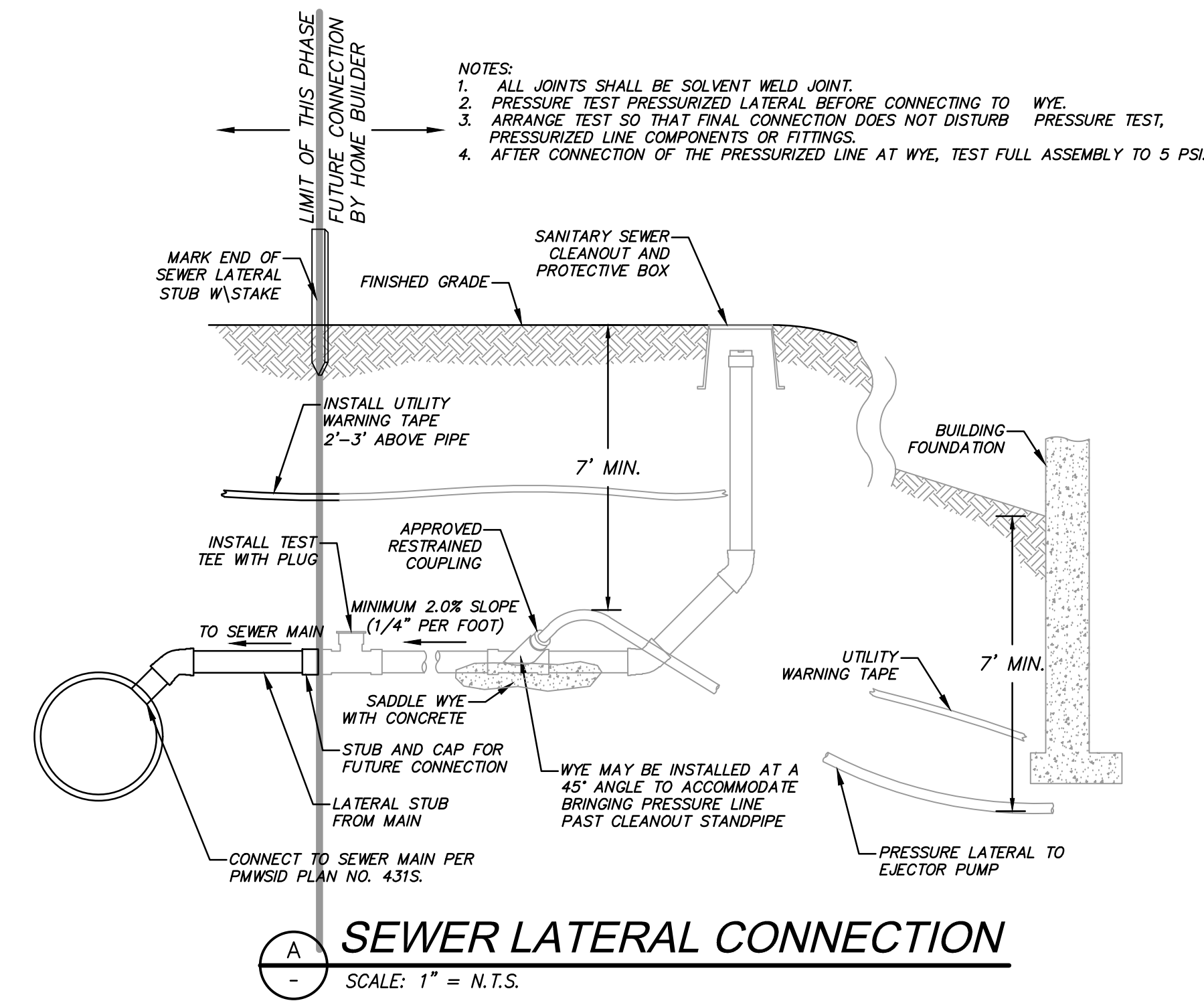
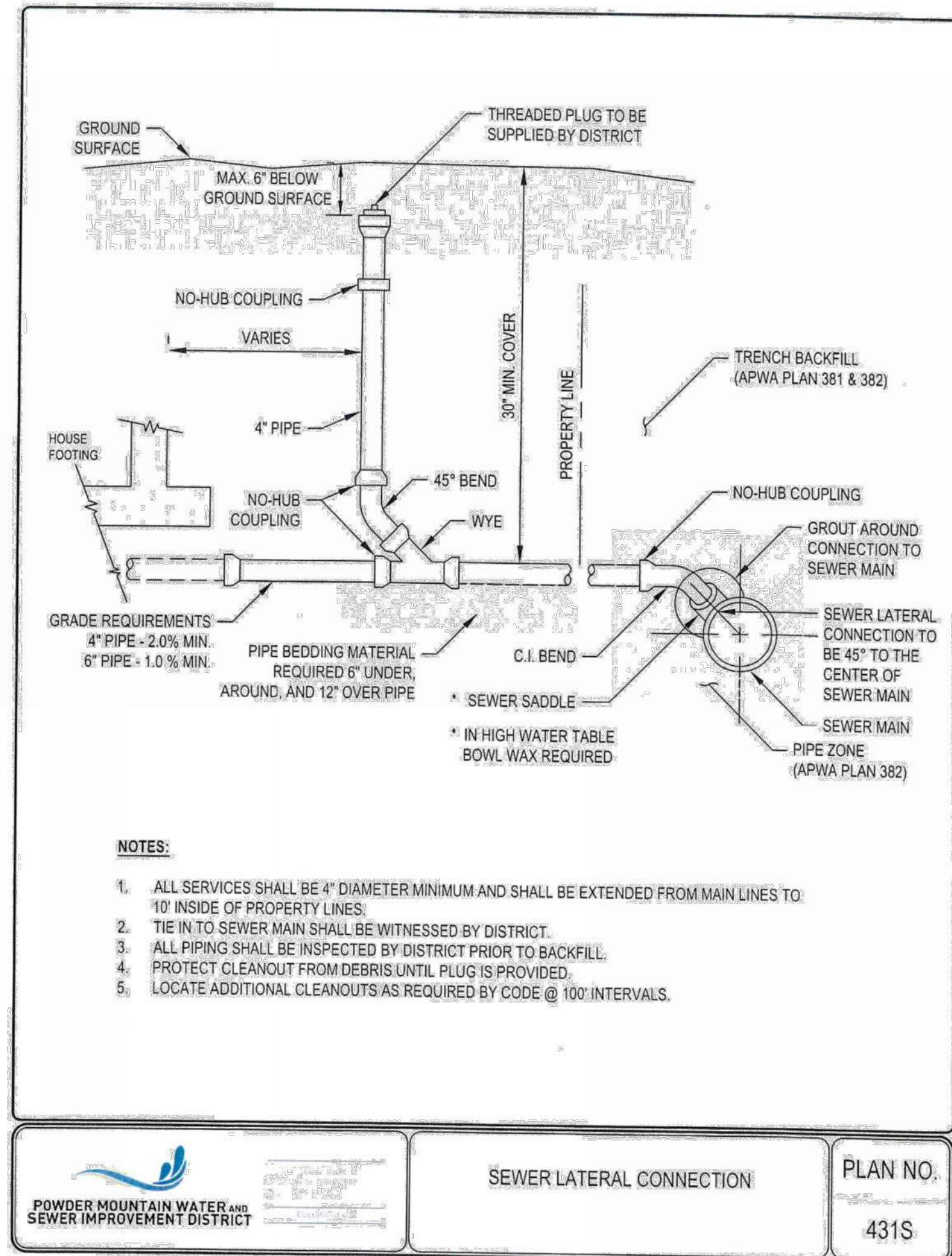


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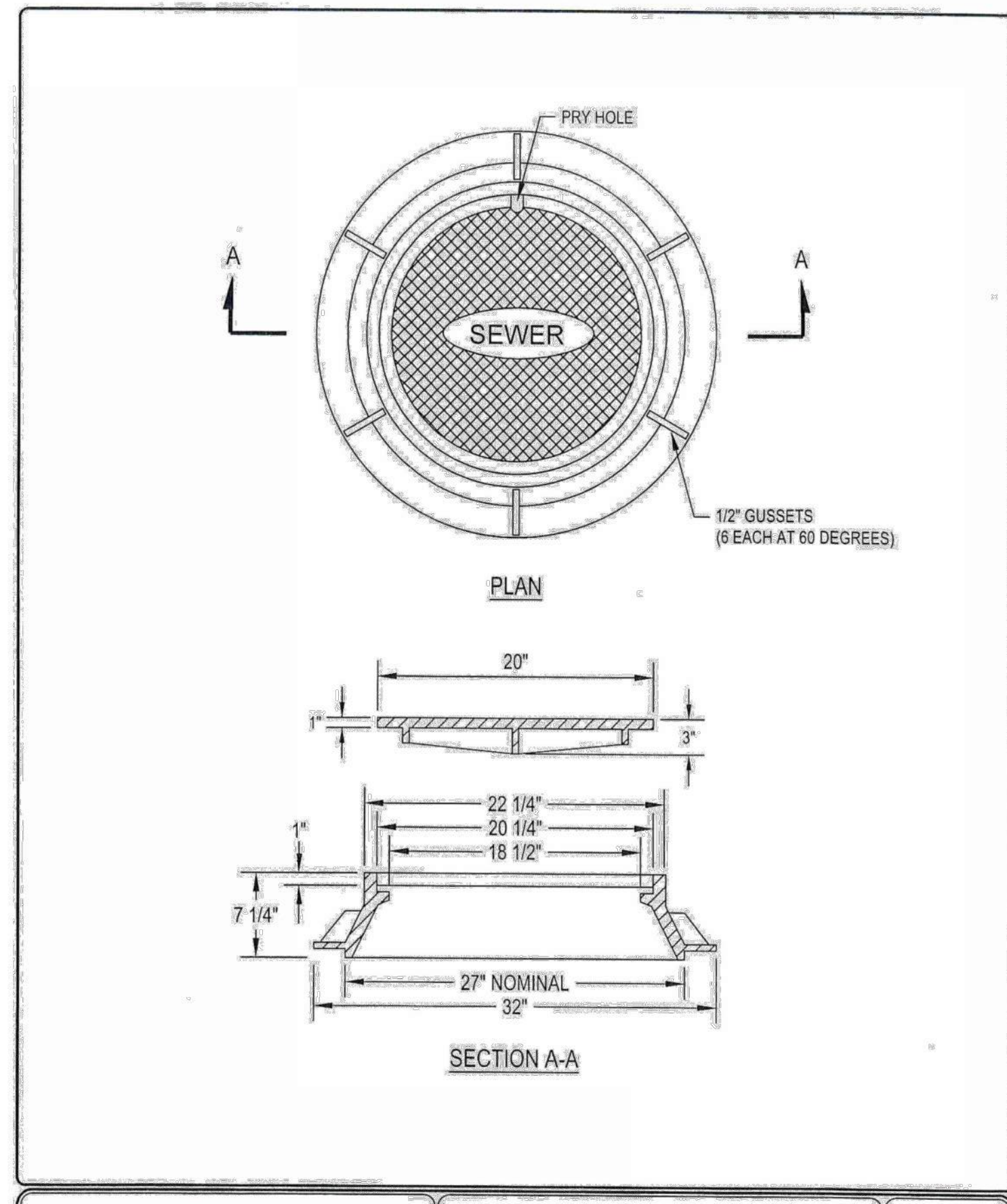
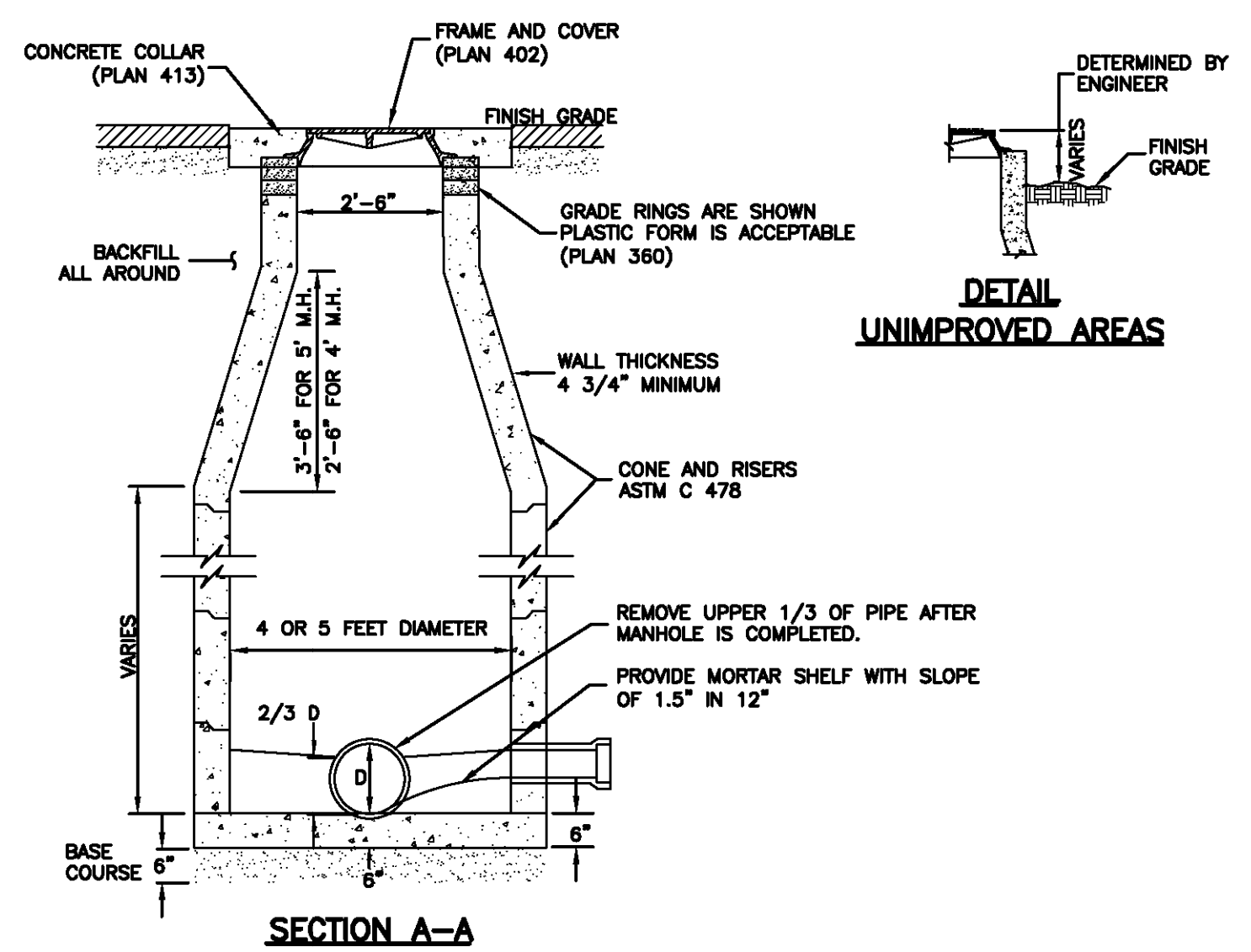
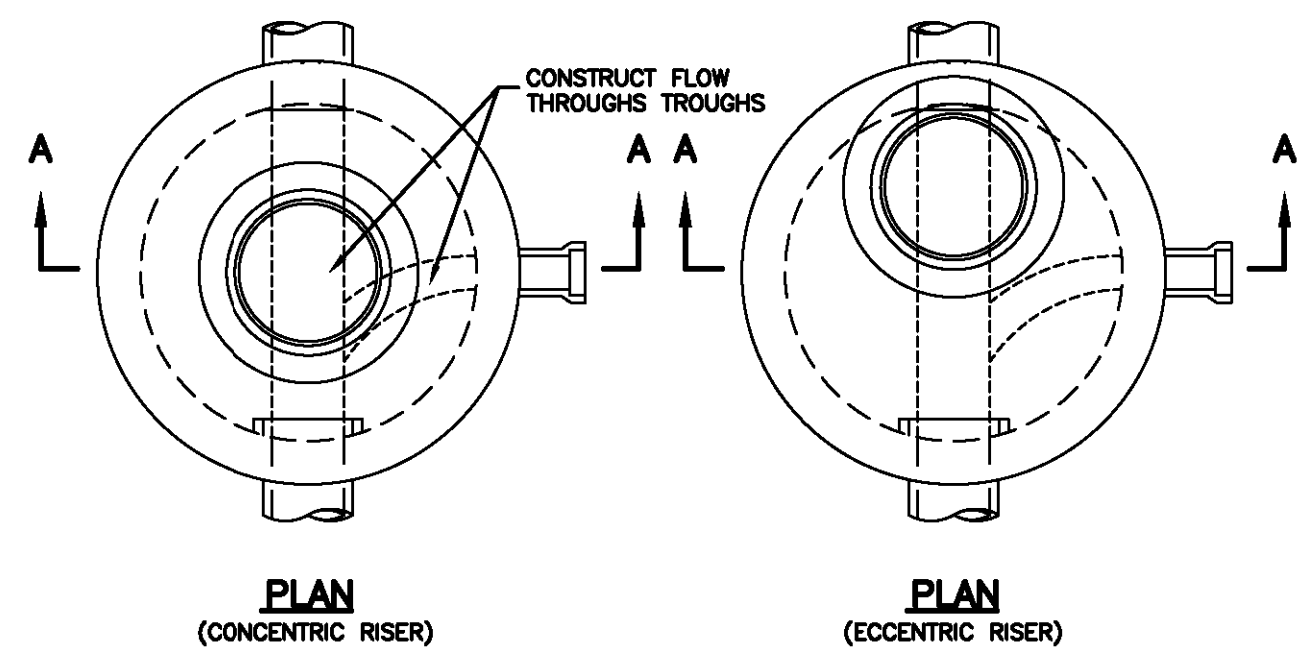
24 OF 32

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 4000, APWA Section 03 30 04.
 - D. Riser and Reducing Riser: ASTM C 478.
 - E. Reinforcement: Deformed, 60 ksi yield grade steel, ASTM A 615.
 - F. Grout: 2 parts sand to 1 part cement mortar, ASTM C 1329.
 - 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.



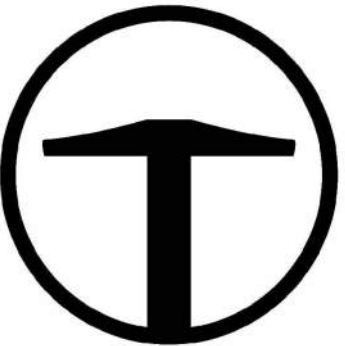
212



Sanitary sewer manhole

Plan 411

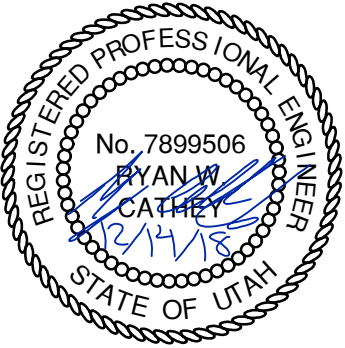
213



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OVERLOOK PH1, PH2, PH3 AT S.P.M.

DETAILS



REVISED	DATE
BY	
NO.	

DATE SUBMITTED: 12.14.2018

TCC JOB NUMBER: 18-200.23



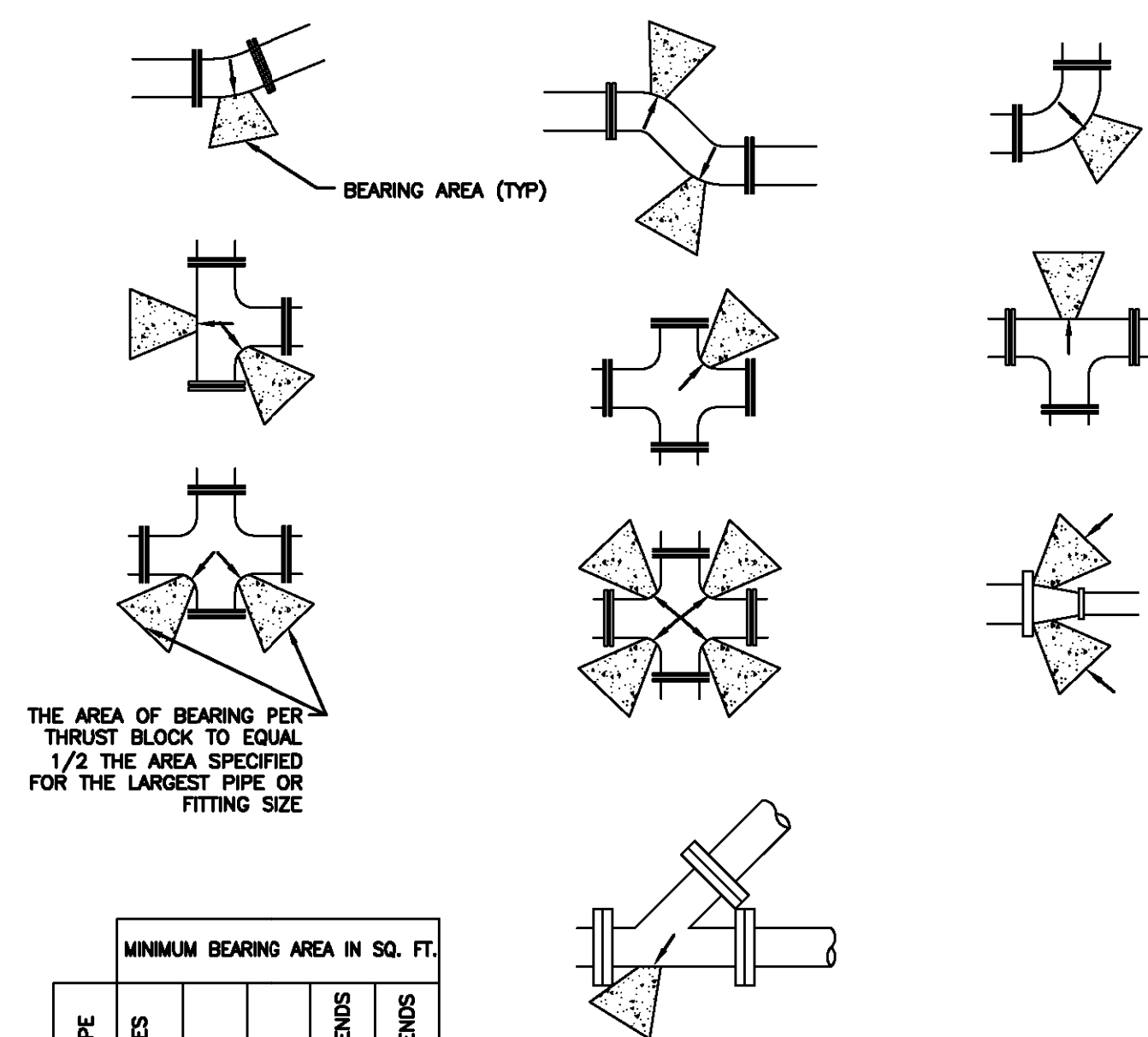
SHEET NUMBER
702
25 OF 32

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Direct bearing thrust block

- GENERAL**
 - Thrust design for pipe sizes or configurations not shown require special design.
 - Bearing areas, volumes, and special thrust blocking details shown on Drawings take precedence over this plan.
 - 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.
 - Before backfilling around thrust block, secure inspection of installation by ENGINEER.
- 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.
 - Thrust Blocks: Concrete Class 4000, APWA Section 03 30 04.
 - Grease: Non-oxide poly-FM.
- EXECUTION**
 - Pour concrete against undisturbed soil.
 - Pipe Joints: Do not cover with concrete. Leave completely accessible.
 - Grease: Apply grease to all buried metal surfaces. Wrap with polyethylene sheet and tape wrap.
 - Locking restraint devices may be used in conjunction with concrete thrust blocking (at discretion of ENGINEER).
 - 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.

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SIZE OF PIPE	MINIMUM BEARING AREA IN SQ. FT.				
	TEES, VALVES DEAD ENDS	90° BENDS	45° BENDS	22 1/2° BENDS	11 1/4° BENDS
4"	2	3	2	2	2
6"	4	5.5	3	1.5	1
8"	6.5	9.5	5	2.75	1.5
12"	14	20	11	5.5	3
14"	19	26.5	14.5	7.5	4
16"	24	34	18.5	9.5	6
20"	27	52	28.5	14.5	16
24"	53	74	41	21	53
30"	81	114	62	32	18

Direct bearing thrust block

Plan 561

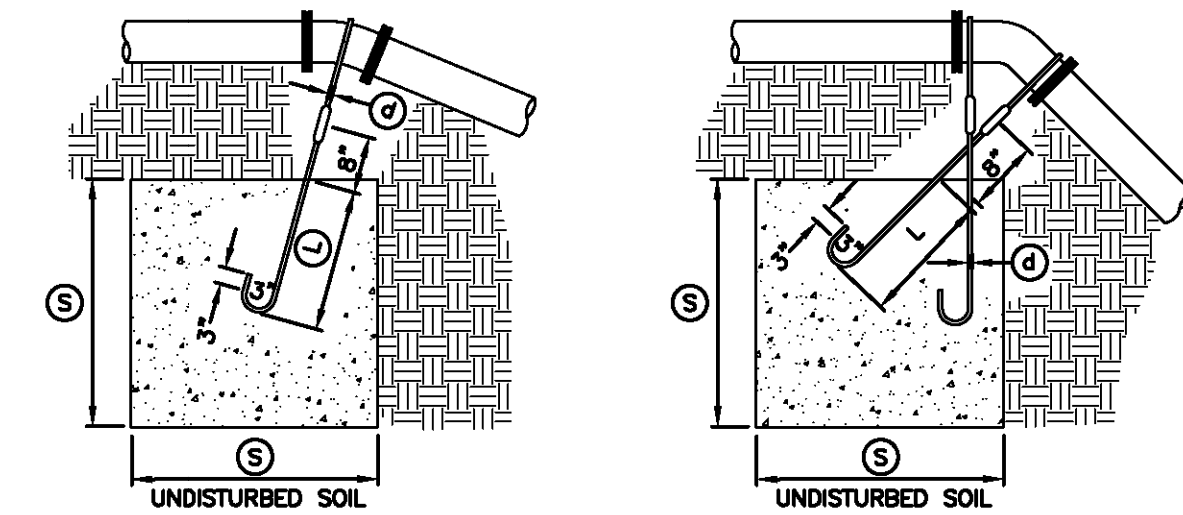
August 2010

267

Tie-down thrust restraints

- GENERAL**
 - Thrust design for pipe sizes or configurations not shown require special design.
 - Bearing areas, volumes, and special thrust blocking details shown on Drawings take precedence over this plan.
 - 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.
 - Before backfilling around thrust block, secure inspection of installation by ENGINEER.
- 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 4,000 minimum, APWA Section 03 30 04.
 - Reinforcement: Deformed, steel, ASTM A 615. Give bars an epoxy coating at least 15 mils thick. Minimum stress yield strength of steel tie-down bars is 70,000 ksi.
 - Grease: Non-oxide poly-FM.
- EXECUTION**
 - 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.
 - Pipe Joints: Do not cover with concrete. Leave completely accessible.
 - Grease: Apply grease to all buried metal surfaces. Wrap with polyethylene sheet and tape wrap.
 - Locking restraint devices may be used in conjunction with concrete thrust blocking (at discretion of ENGINEER).
 - 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.

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TYPE A RESTRAINT FOR 11 1/4" - 22 1/2" VERTICAL BENDS

PIPE SIZE NOMINAL DIAMETER	VERTICAL BEND IN DEGREES	CONCRETE BLOCKING IN CUBIC FEET	SIDE OF CURVE - FEET	REINFORCING RODS	
				DIAMETER OF SHANK OR REBAR RODS - INCH	DEPTH OF ROD CONCRETE - FEET
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

PIPE SIZE NOMINAL DIAMETER	VERTICAL BEND IN DEGREES	CONCRETE BLOCKING IN CUBIC FEET	SIDE OF CURVE - FEET	REINFORCING RODS	
				DIAMETER OF SHANK OR REBAR RODS - INCH	DEPTH OF ROD CONCRETE - FEET
4"	45°	1	3.0	5/8"	2.0
6"	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	9.2	3/4"	4.0	
24"	37.82	10.07	3/4"	4.0	
30"	58.28	11.63	3/4"	4.0	

Tie-down thrust restraints

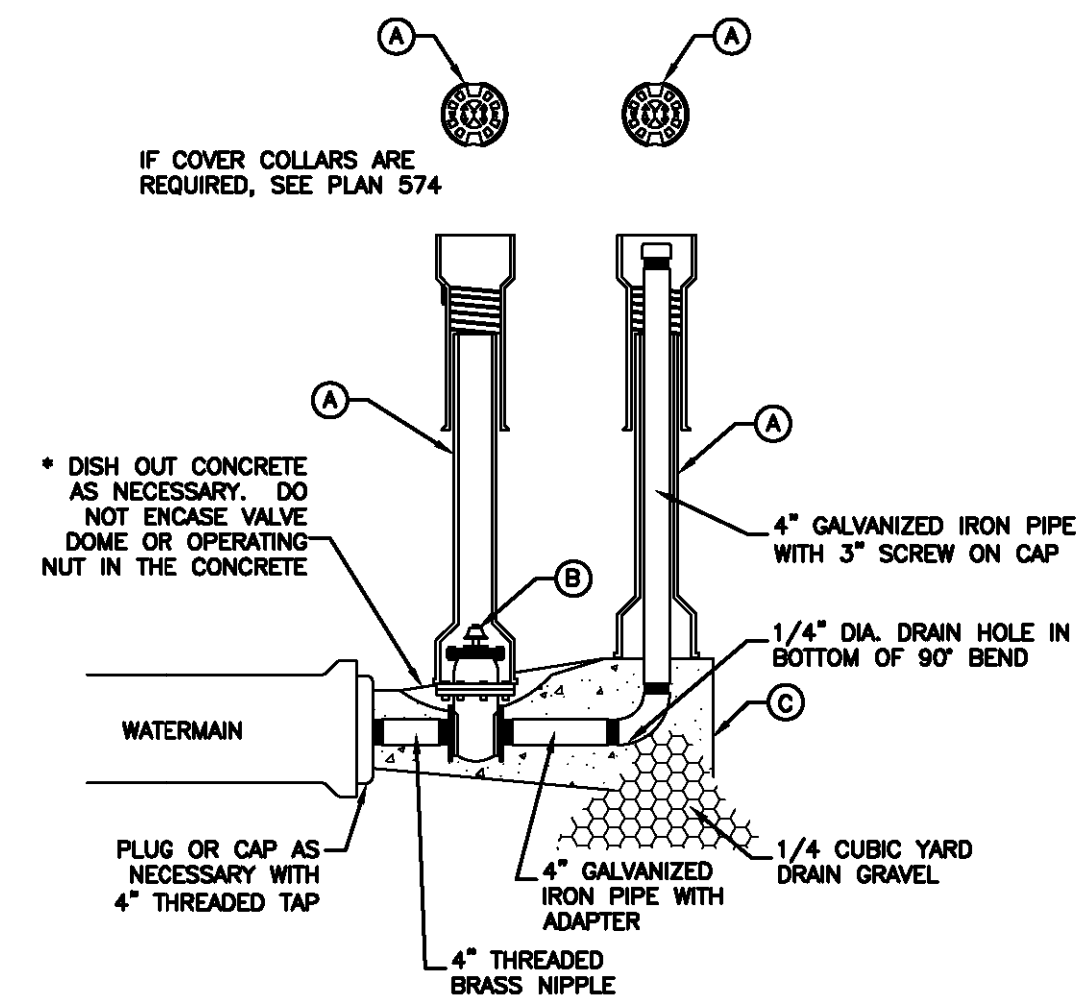
Plan 562

February 2011

4" washout valve

- GENERAL**
 - Before backfilling, secure inspection of installation by ENGINEER.
 - Water mains 12-inches and larger will require a special washout assembly design.
- 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 4000, APWA Section 03 30 04.
- EXECUTION**
 - Pour concrete against undisturbed soil.
 - Apply tape wrap to the exterior of all galvanized pipe per AWWA C209.
 - Place plastic sheet at least 6 mils thick over drain gravel to prevent silting.
 - After installation of washout valve assembly, verify the washout valve riser drains to gravel.
 - Backfill and Base Course Placement: Maximum lift thickness is 8-inches before compaction. Compaction is 95 percent or greater of a modified proctor density, APWA Section 31 23 26.

270



LEGEND		
No.	ITEM	DESCRIPTION
(A)	VALVE BOX WITH LID	2 PIECE CAST IRON
(B)	4" GATE VALVE WITH SCREW ENDS	2" x 2" OPERATING NUT
(C)	CONCRETE THRUST BLOCK	PLAN 561

4" Washout valve

Plan 571

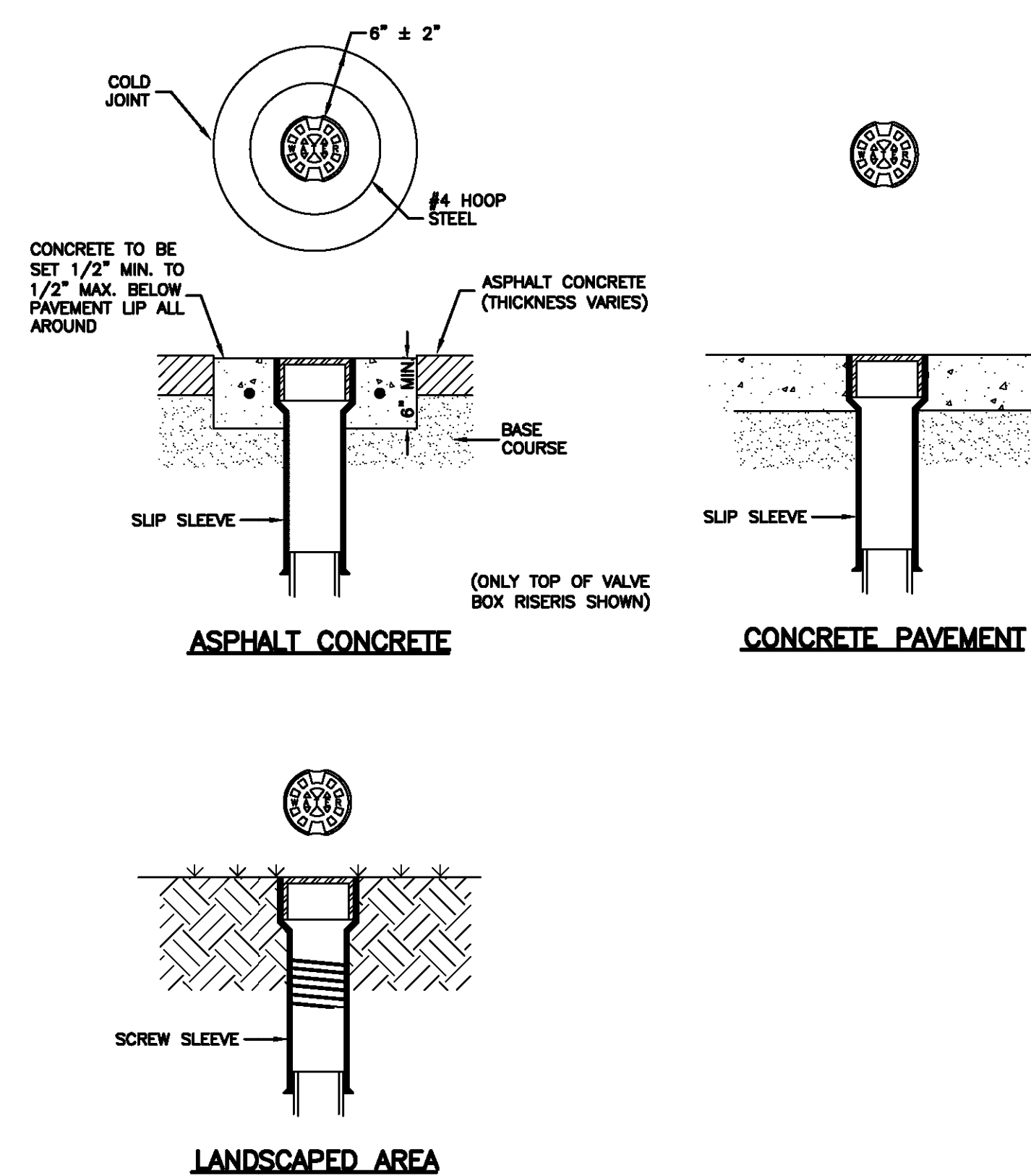
August 2010

271

Cover collar for water valve box

- GENERAL**
 - In a pavement surface, fill an annular space around a frame and cover casting with concrete. The concrete will support the casting under traffic loadings.
- PRODUCTS**
 - Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel as a base course without ENGINEER's permission.
 - Concrete: Class 4000, APWA Section 03 30 04.
 - Concrete Curing Agent: Type ID Class A (clear with fugitive dye), membrane forming compound, APWA Section 03 39 00.
- EXECUTION**
 - Base Course: 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.
 - Pavement Preparation: Provide a neat vertical and concentric joint between concrete collar and existing asphalt concrete surface. Clean edges of all dirt, oil, and loose debris.

276



Cover collar for water valve box

Plan 574

August 2010

277

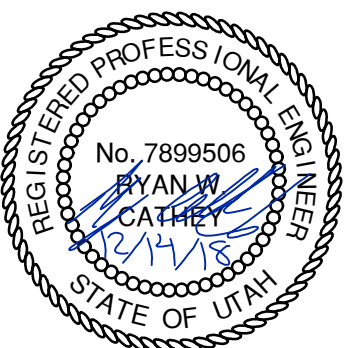


OVERLOOK PH1, PH2, PH3 AT S.P.M.

DETAILS

DATE SUBMITTED: 12.14.2018

TCC JOB NUMBER: 18-200.23



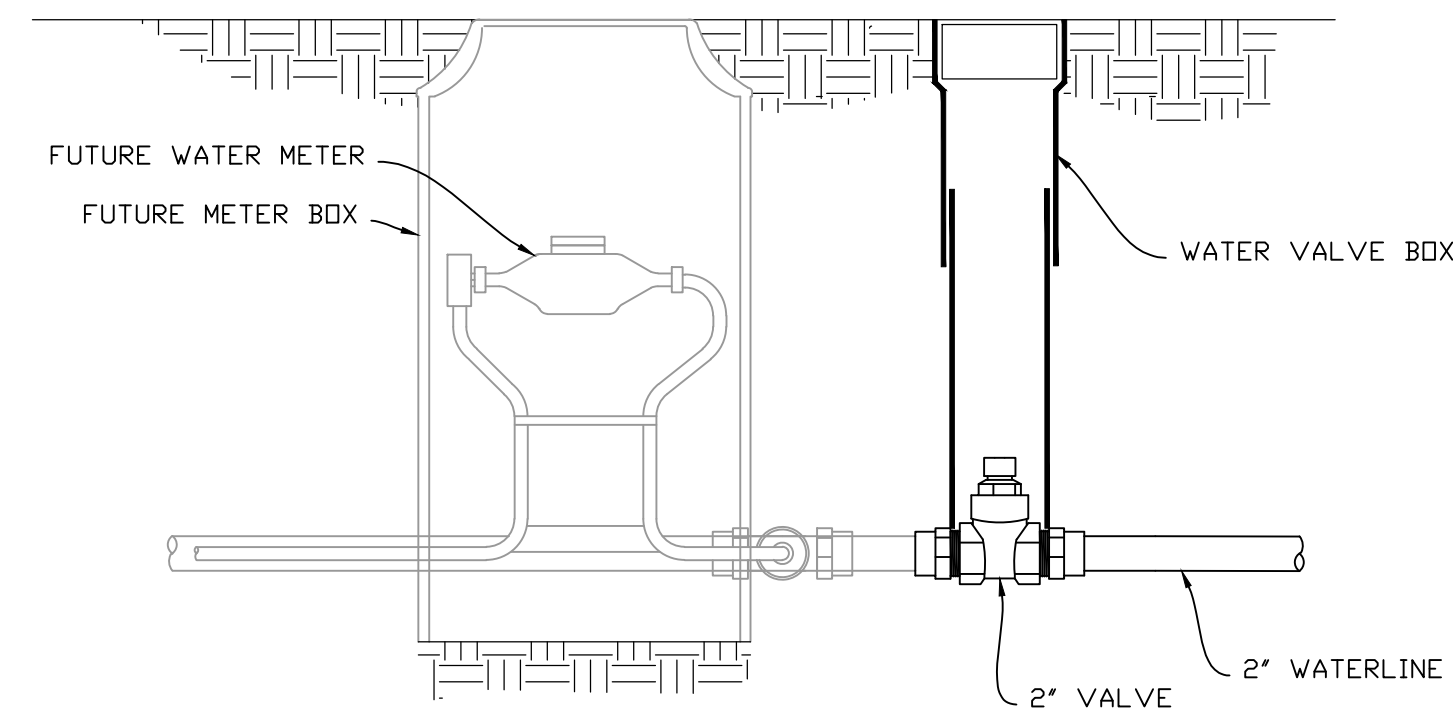
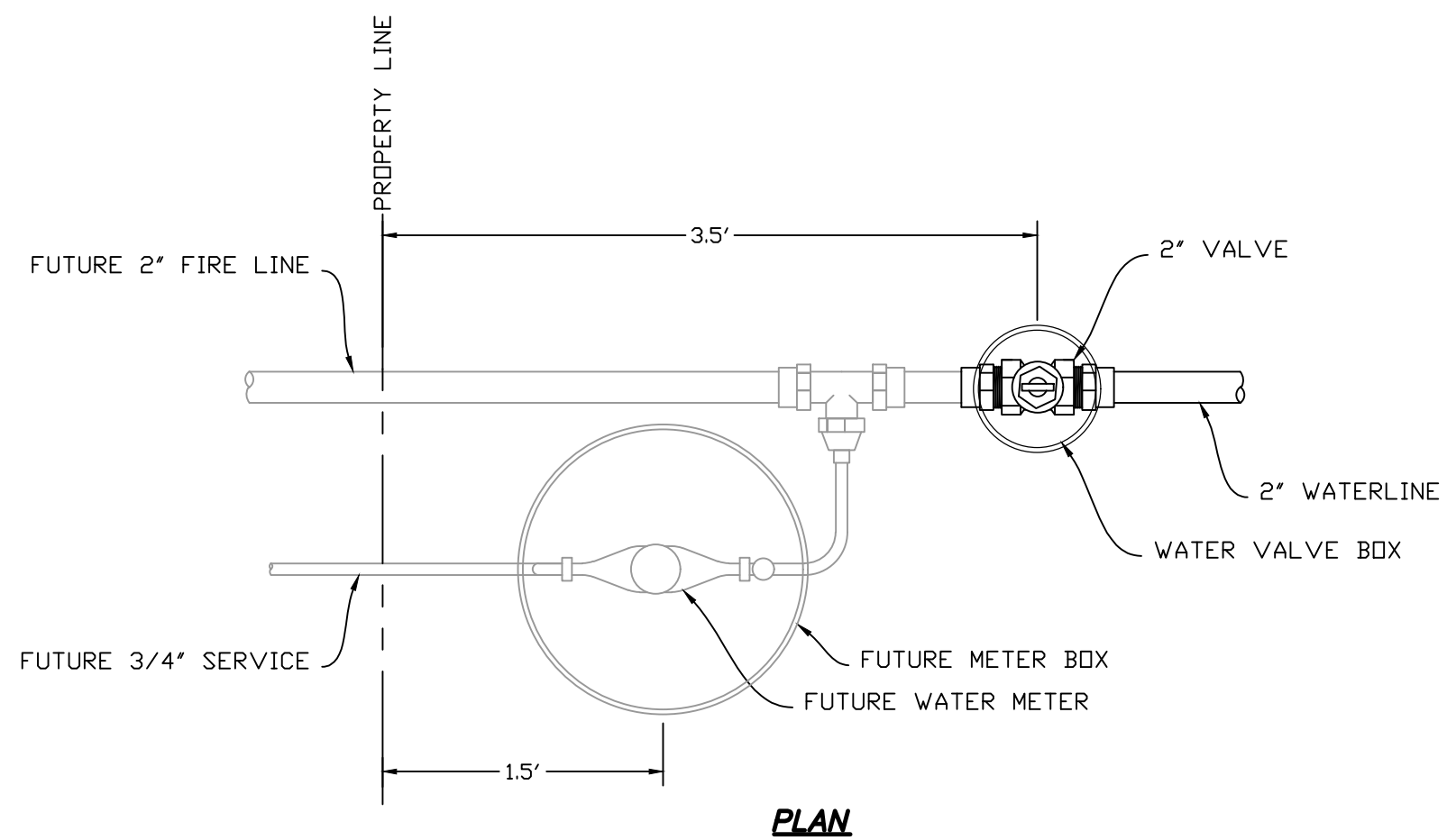
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703

26 OF 32

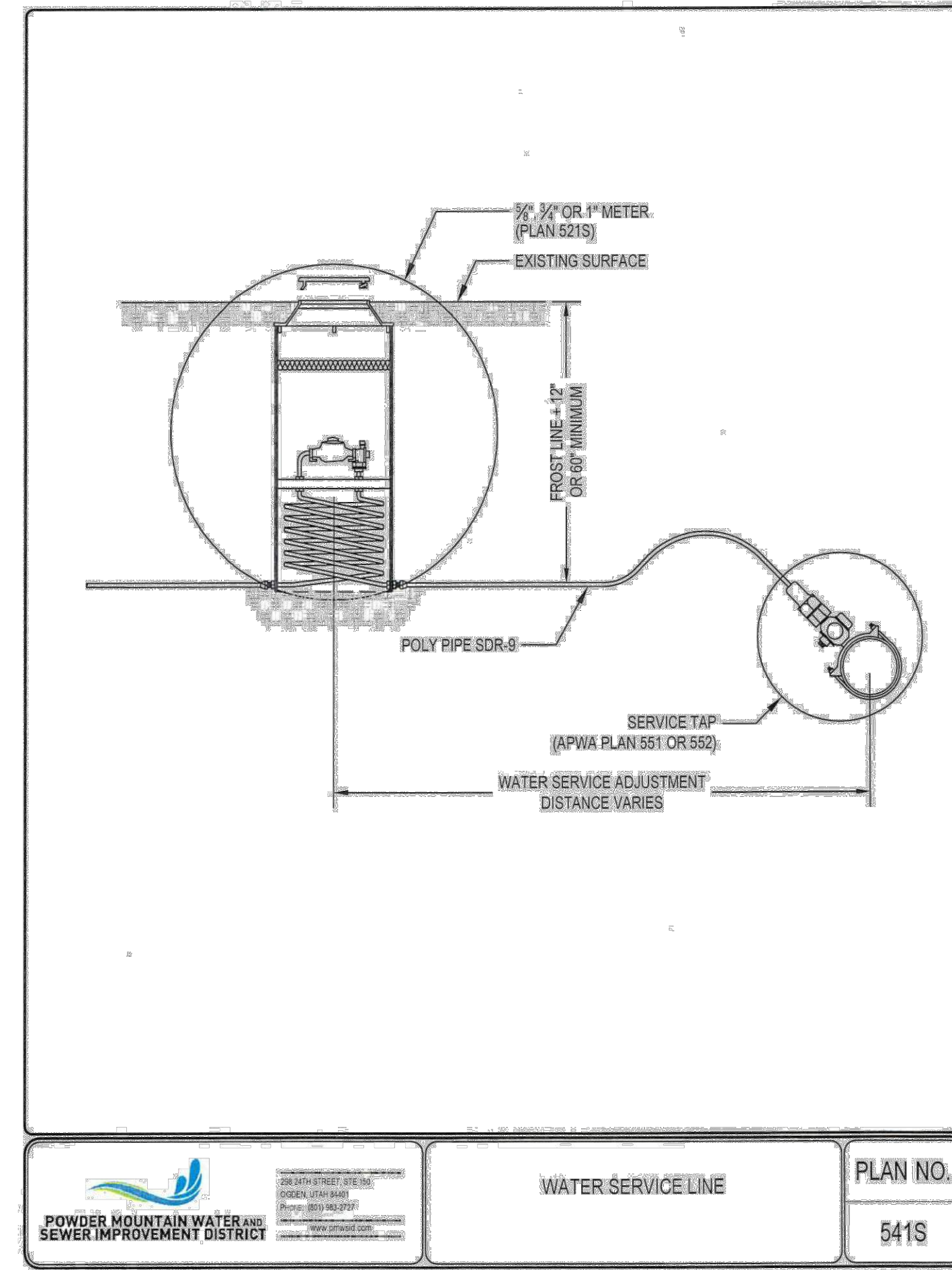
Air release assembly

1. **GENERAL**
 - A. This drawing detail is applicable to water main piping less than 16-inches diameter.
 - B. PCCP, steel, MLAC and other water main pipe materials will require special detail or design drawings. Submit the design and detail drawings and materials to the ENGINEER for review before installation.
 - C. Installation in areas of high ground water or potential for water entering the vent pipe will require a special design to be provided by the ENGINEER.
 - D. Before backfilling around the assembly, 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. Drain Gravel: Sewer rock, ASTM size no. 3 (2" to 1") or equal, APWA Section 31 05 13.
 - C. Backfill: Common fill, APWA Section 31 05 13. Maximum particle size 2-inches.
 - D. Concrete: Class 4000, APWA Section 03 30 04.
 - E. Manhole: Riser, ASTM C 478.
 - F. Reinforcement: Deformed, steel, ASTM A 615. Give bars an epoxy coating at least 15 mils thick. Minimum stress yield strength of steel tie-down bars is 70,000 ksi.
 - G. Small Fittings: Brass. Do not use galvanized materials.
 - H. PVC Pipe and Fittings: Schedule 40, APWA Section 33 05 07.
 - I. Water Tight Wall Seal: Waterproof, compressible.
3. **EXECUTION**
 - A. 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.
 - B. Apply tape wrap to the exterior of all buried steel pipe per AWWA C209.
 - C. Concrete Placement: APWA Section 03 30 10. Provide 1/2-inch radius edges. Apply a broom finish. Apply a curing agent.
 - D. Service saddle is required on all PVC and AC pipe taps unless specified otherwise. Ductile iron and cast iron pipe may be direct tapped.
 - E. Seal manhole joints water-tight and ground flush with interior wall.
 - F. Follow applicable AWWA and NSF standards when connecting piping.
 - G. If diameter of air relief valve is greater than 2-inches, provide piping to match its diameter from water main connection to open to air.

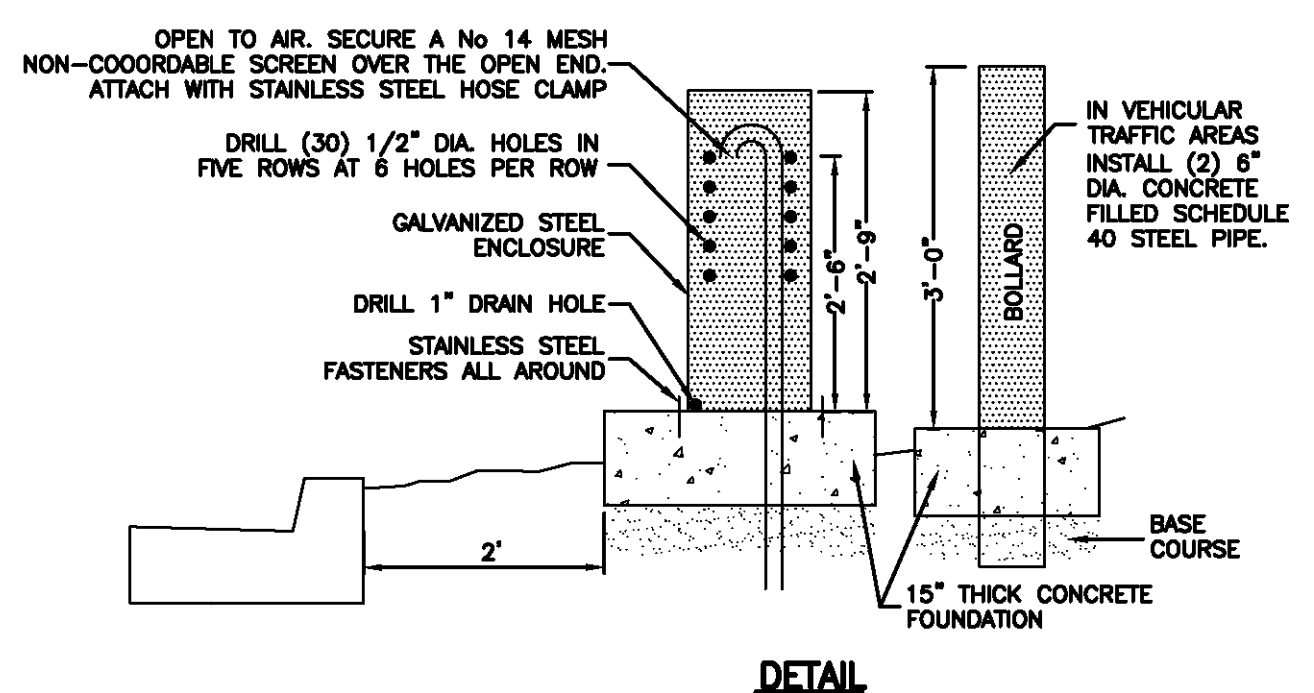
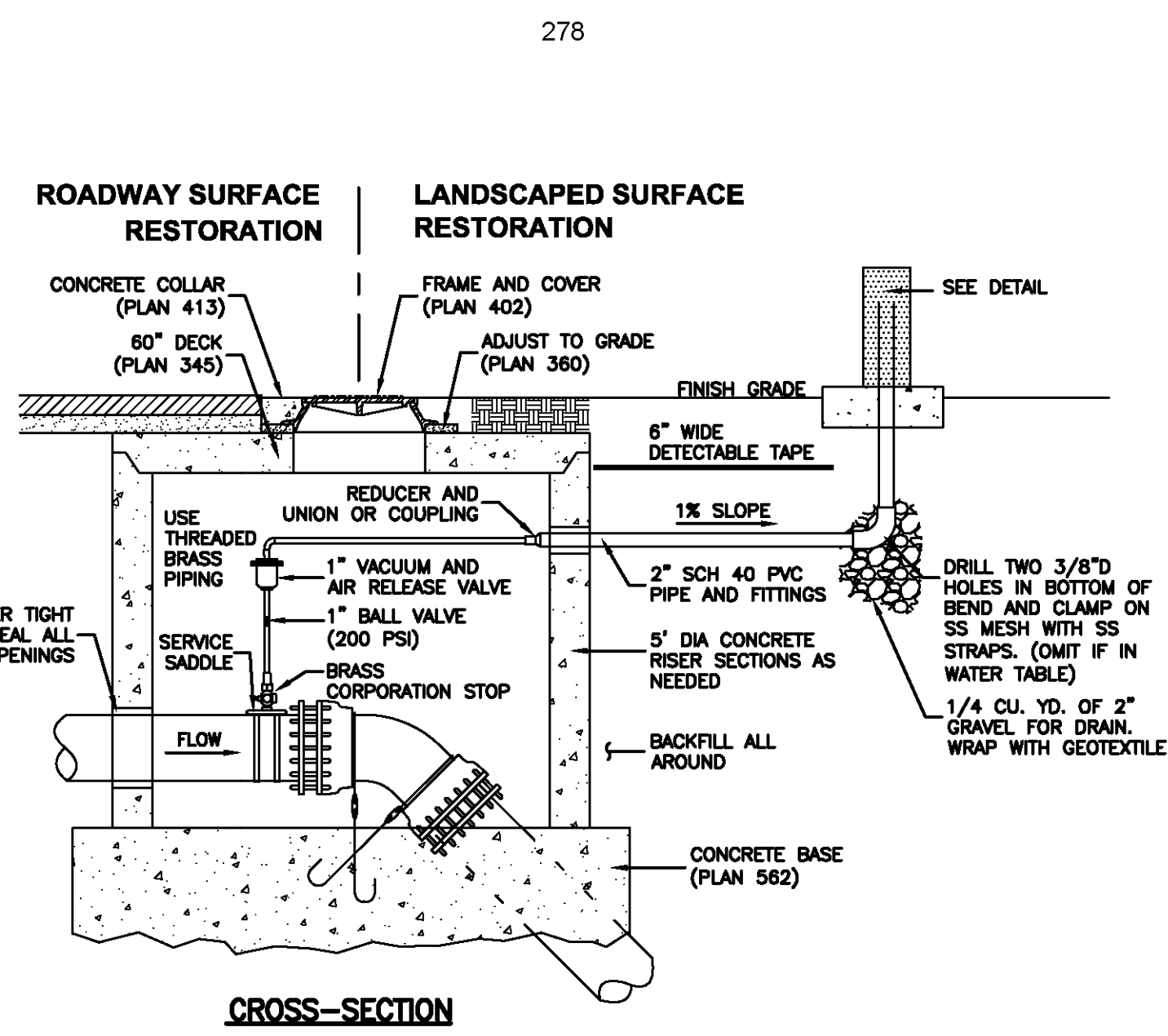


NOTE:
FUTURE SIZES ARE PRELIMINARY.
ACTUAL SIZE TO BE DETERMINED
BY BUILDING DESIGNER

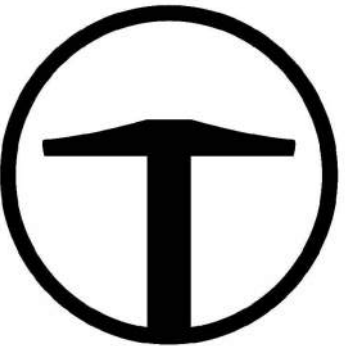
WATER LATERAL DETAIL
NO SCALE



	WATER SERVICE LINE PLAN NO. 541S
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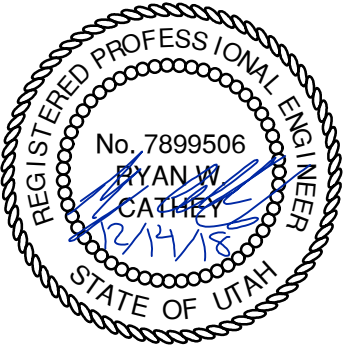
Air release assembly
Plan
575



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OVERLOOK PH1, PH2, PH3 AT S.P.M.

DETAILS

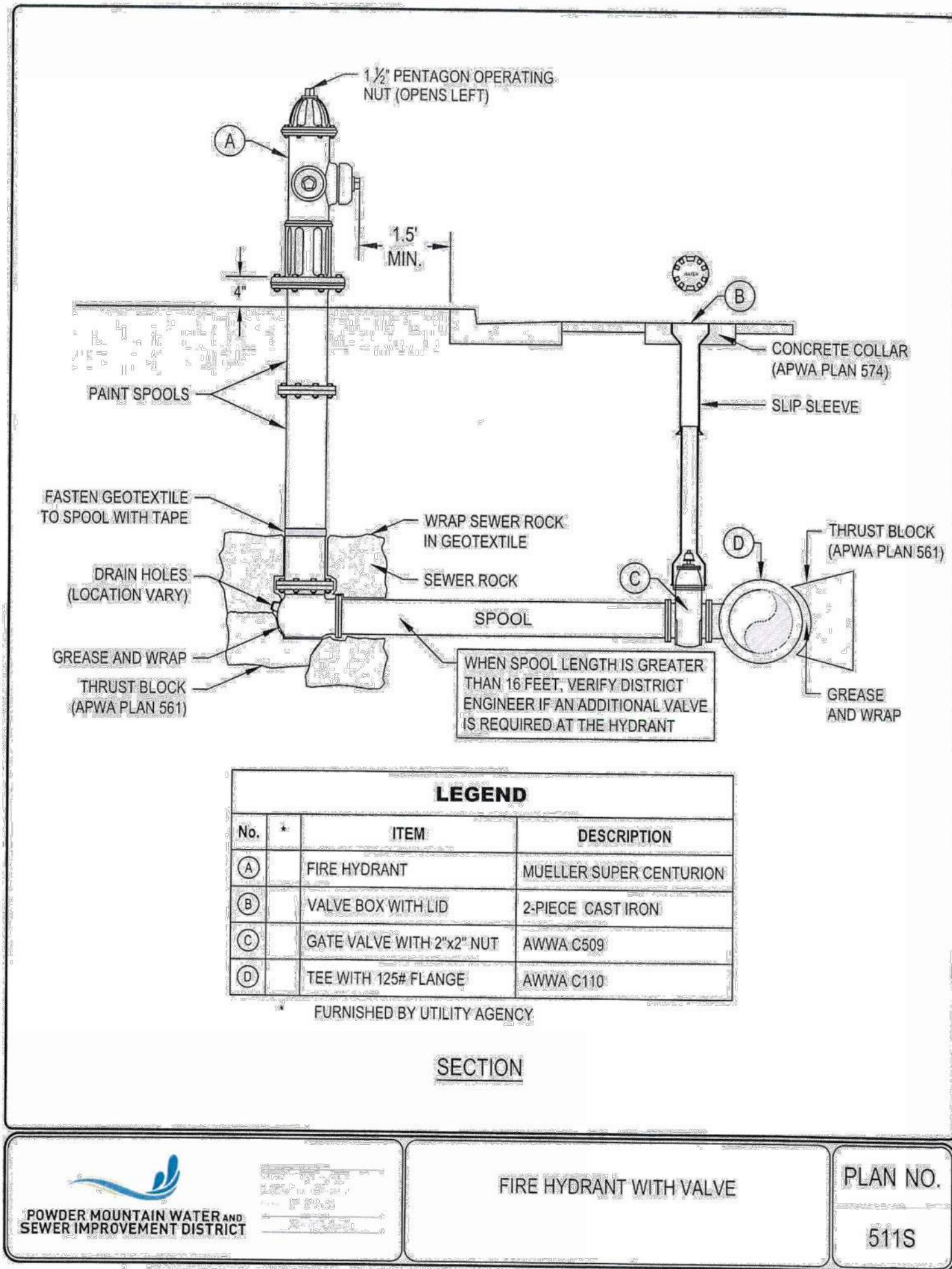


REVISED	DATE	BY	NO.

TCC JOB NUMBER: 18-200.23
DATE SUBMITTED: 12.14.2018
SHEET NUMBER
704
27 OF 32



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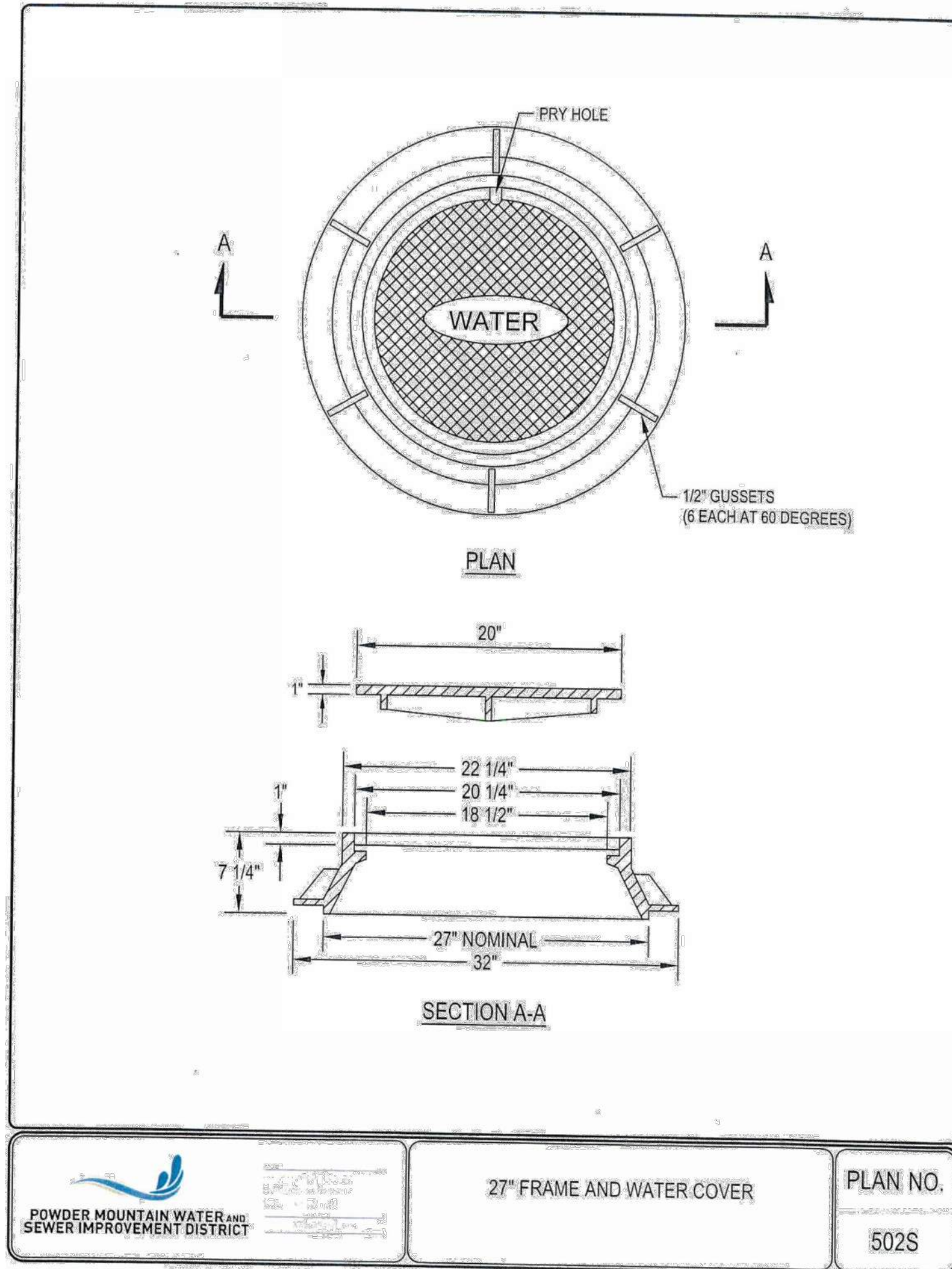


LEGEND		
No.	ITEM	DESCRIPTION
(A)	FIRE HYDRANT	MUELLER SUPER CENTURION
(B)	VALVE BOX WITH LID	2-PIECE CAST IRON
(C)	GATE VALVE WITH 2"x2" NUT	AWWA C509
(D)	TEE WITH 125# FLANGE	AWWA C110

FURNISHED BY UTILITY AGENCY

SECTION

	FIRE HYDRANT WITH VALVE	PLAN NO.
		511S

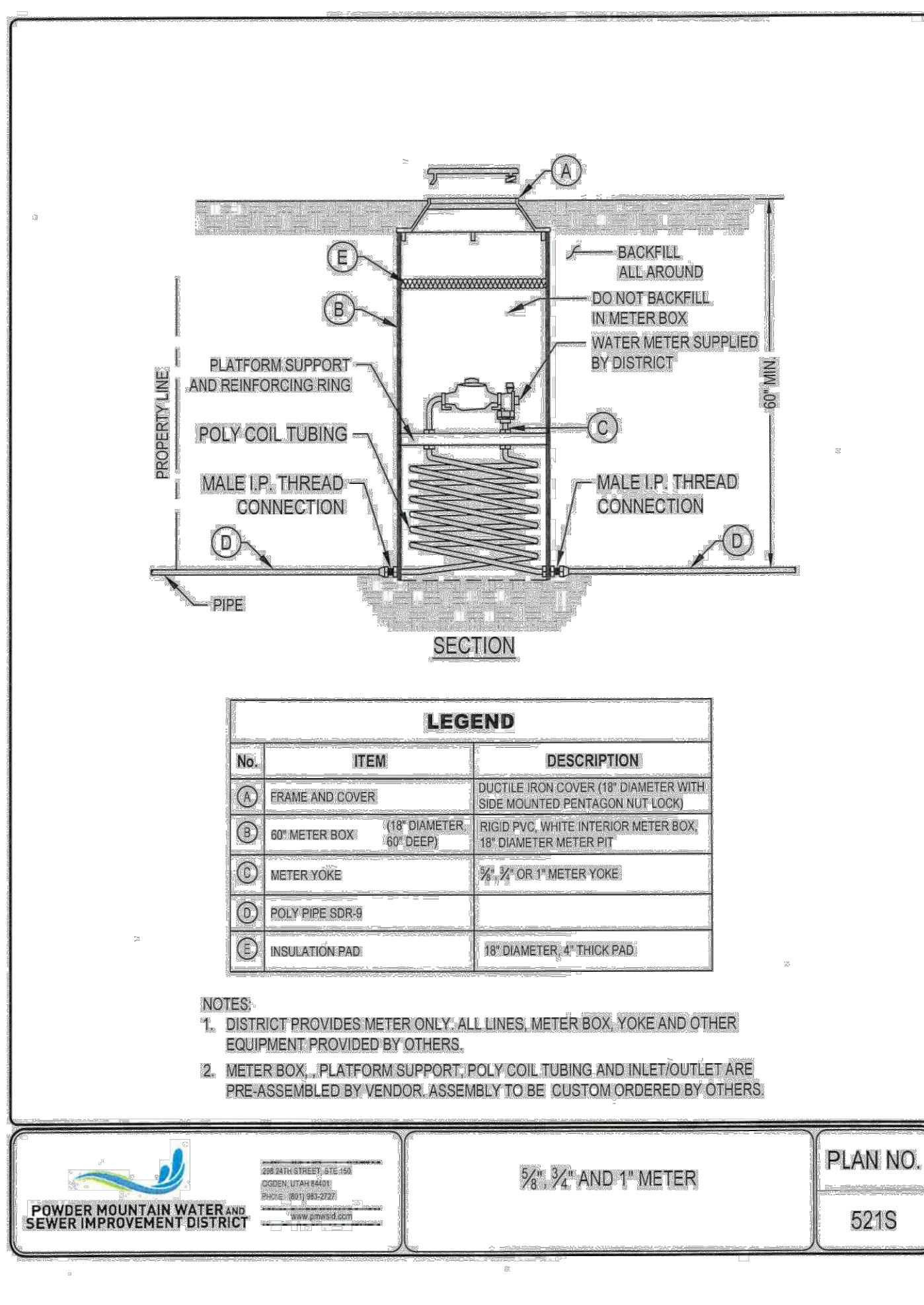


	27" FRAME AND WATER COVER	PLAN NO.
		502S

FIRE HYDRANT WITH VALVE

- GENERAL**
 - BEFORE BACKFILLING, SECURE INSPECTION BY ENGINEER.
 - ADDITIONAL REQUIREMENTS ARE SPECIFIED IN APWA SECTION 33 11 00.
- PRODUCTS**
 - HYDRANT: DRY BARREL, AWWA C502.
 - THRUST BLOCK: CONCRETE CLASS 4000, APWA SECTION 03 30 04
 - REINFORCEMENT: DEFORMED, 60KSI YIELD GRADE STEEL, ASTM A 615.
 - BACKFILL: APWA SECTION 31 05 13, MAXIMUM PARTICLE SIZE 2-INCHES.
 - SEWER ROCK: ASTM SIZE No. 3 (2" TO 1") OR LARGER.
 - OTHER TYPE OF COMMON FILL: CONTRACTOR'S CHOICE.
 - GEOTEXTILE: STABILIZATION-SEPARATION FABRIC, APWA SECTION 31 05 19.
- EXECUTION**
 - INSTALLATION:**
 - PROVIDE AT LEAST 1 CUBIC YARD OF SEWER ROCK AROUND DRAIN HOLE AT BASE OF HYDRANT SPOOL. WRAP GEOTEXTILE AROUND SEWER ROCK AND TAPE GEOTEXTILE TO HYDRANT SPOOL TO PREVENT SILTING OF SEWER ROCK.
 - PAINT FIRE HYDRANT RED.
 - APPLY NON-OXIDE GREASE TO ALL BURIED METAL SURFACES. WRAP WITH POLYETHYLENE SHEET AND TAPE WRAP.
 - NOTIFY FIRE DEPARTMENT AS SOON AS HYDRANT IS PLACED IN SERVICE.
 - THRUST BLOCKS:**
 - BEFORE POURING CONCRETE, WRAP PIPE SYSTEM WITH POLYETHYLENE SHEET TO PREVENT BONDING OF CONCRETE TO PIPE SYSTEM.
 - REQUIRED FOR FLANGE OR WELDED PIPE SYSTEMS UNLESS APPROVED BY DISTRICT ENGINEER.
 - BACKFILL:**
 - 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.

	FIRE HYDRANT WITH VALVE	PLAN NO.
		511S



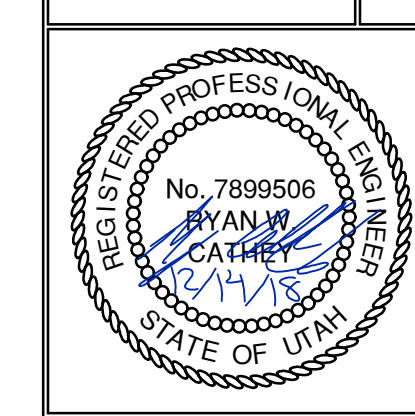
LEGEND		
No.	ITEM	DESCRIPTION
(A)	FRAME AND COVER	DUCTILE IRON COVER (18" DIAMETER WITH SPIRE MOUNTED PENTAGON NUT LOCK)
(B)	60" METER BOX	(18" DIAMETER, 60" DEEP) RIGID PVC, WHITE INTERIOR METER BOX, 18" DIAMETER METER PIT
(C)	METER YOKE	3/4" OR 1" METER YOKE
(D)	POLY PIPE SDR18	
(E)	INSULATION PAD	18" DIAMETER, 4" THICK PAD

NOTES:
 1. DISTRICT PROVIDES METER ONLY. ALL LINES, METER BOX, YOKE AND OTHER EQUIPMENT PROVIDED BY OTHERS.
 2. METER BOX, PLATFORM SUPPORT, POLY COIL TUBING AND INLET/OUTLET ARE PRE-ASSEMBLED BY VENDOR. ASSEMBLY TO BE CUSTOM ORDERED BY OTHERS.

	3/4" AND 1" METER	PLAN NO.
		521S

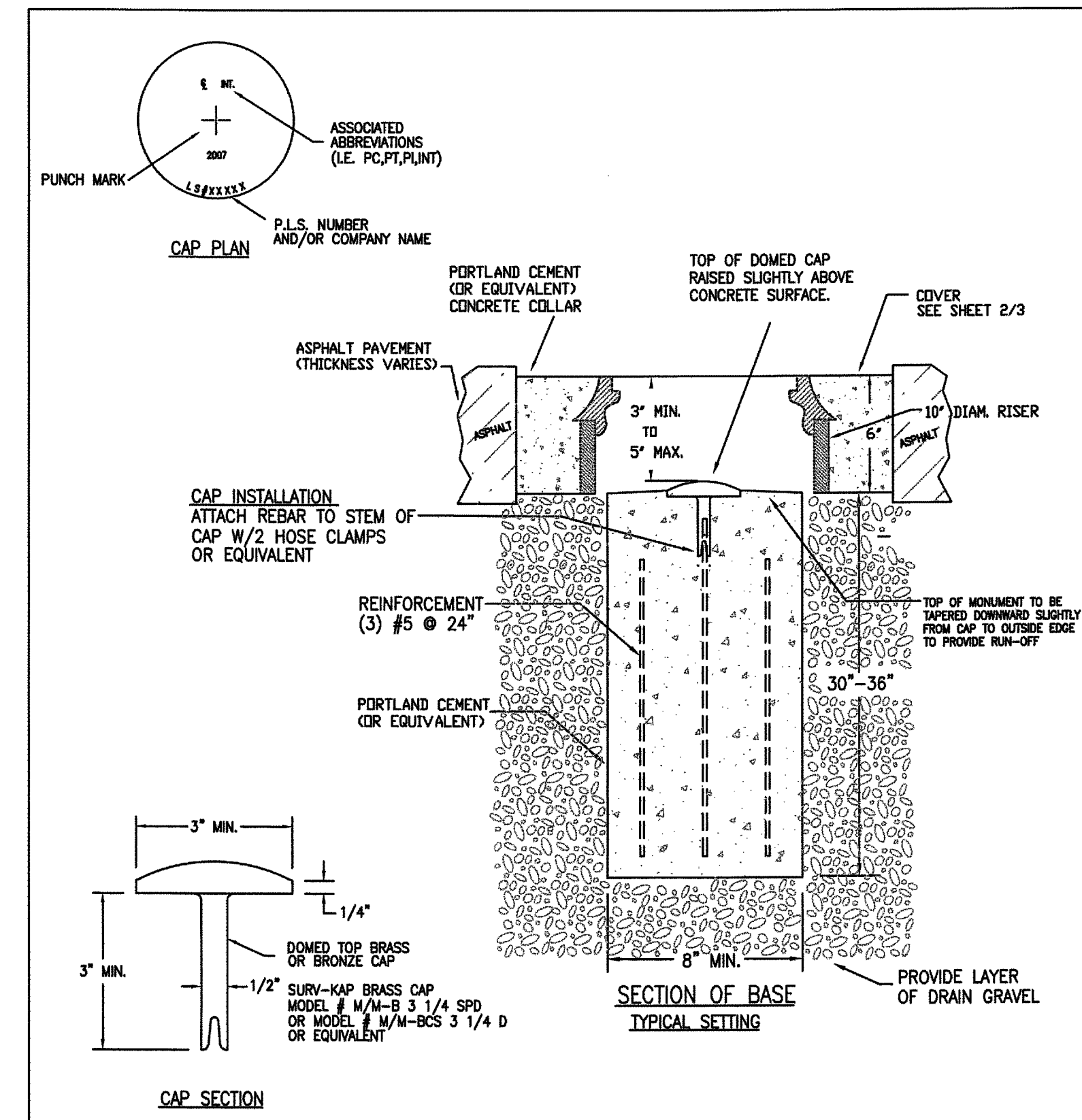
NO.	BY	DATE	REVISIONS

OVERLOOK PH1, PH2, PH3 AT S.P.M.
 DETAILS
 DATE SUBMITTED: 12.14.2018
 TCC JOB NUMBER: 18-200.23



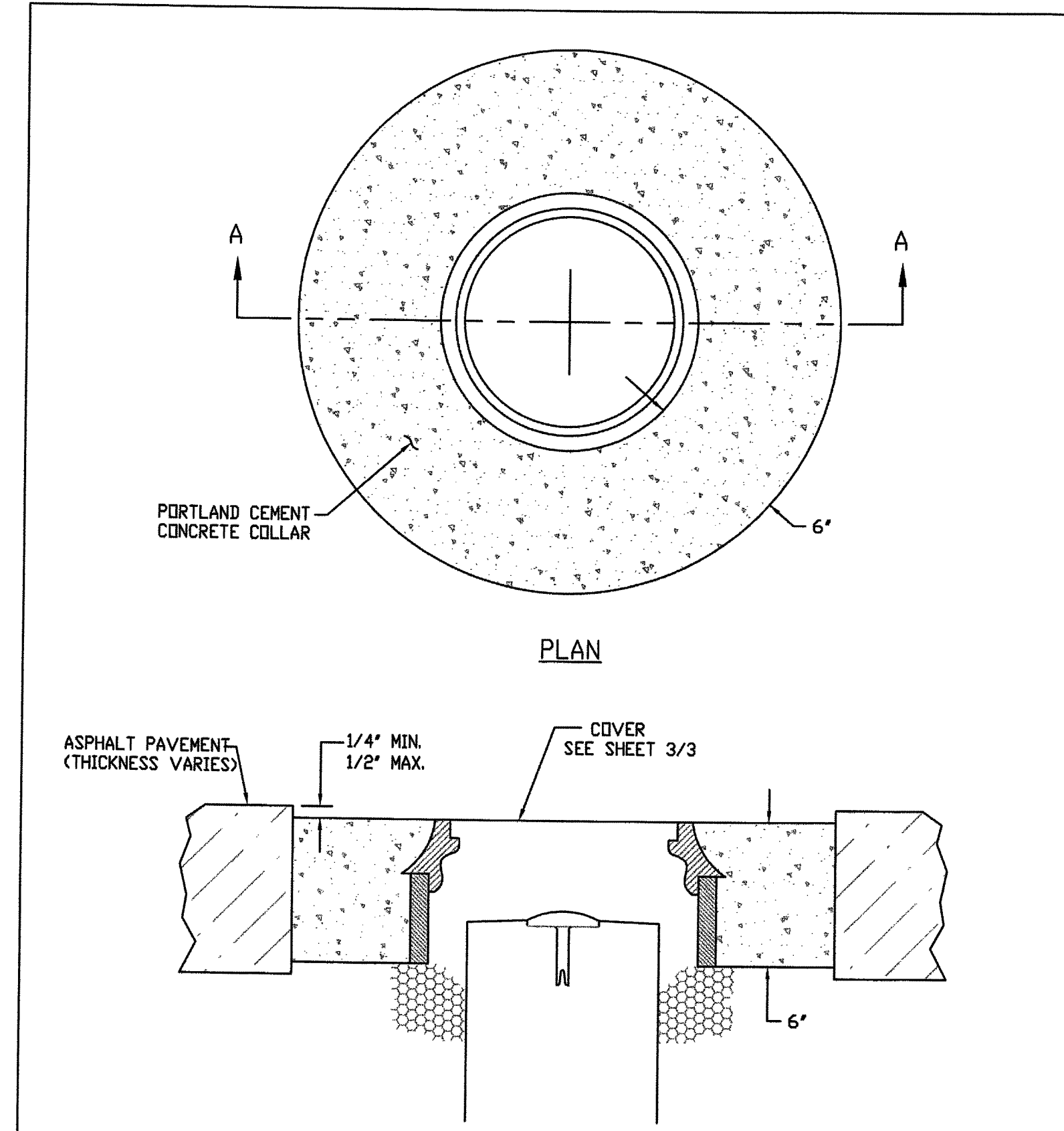
	3/4" AND 1" METER	PLAN NO.
		521S



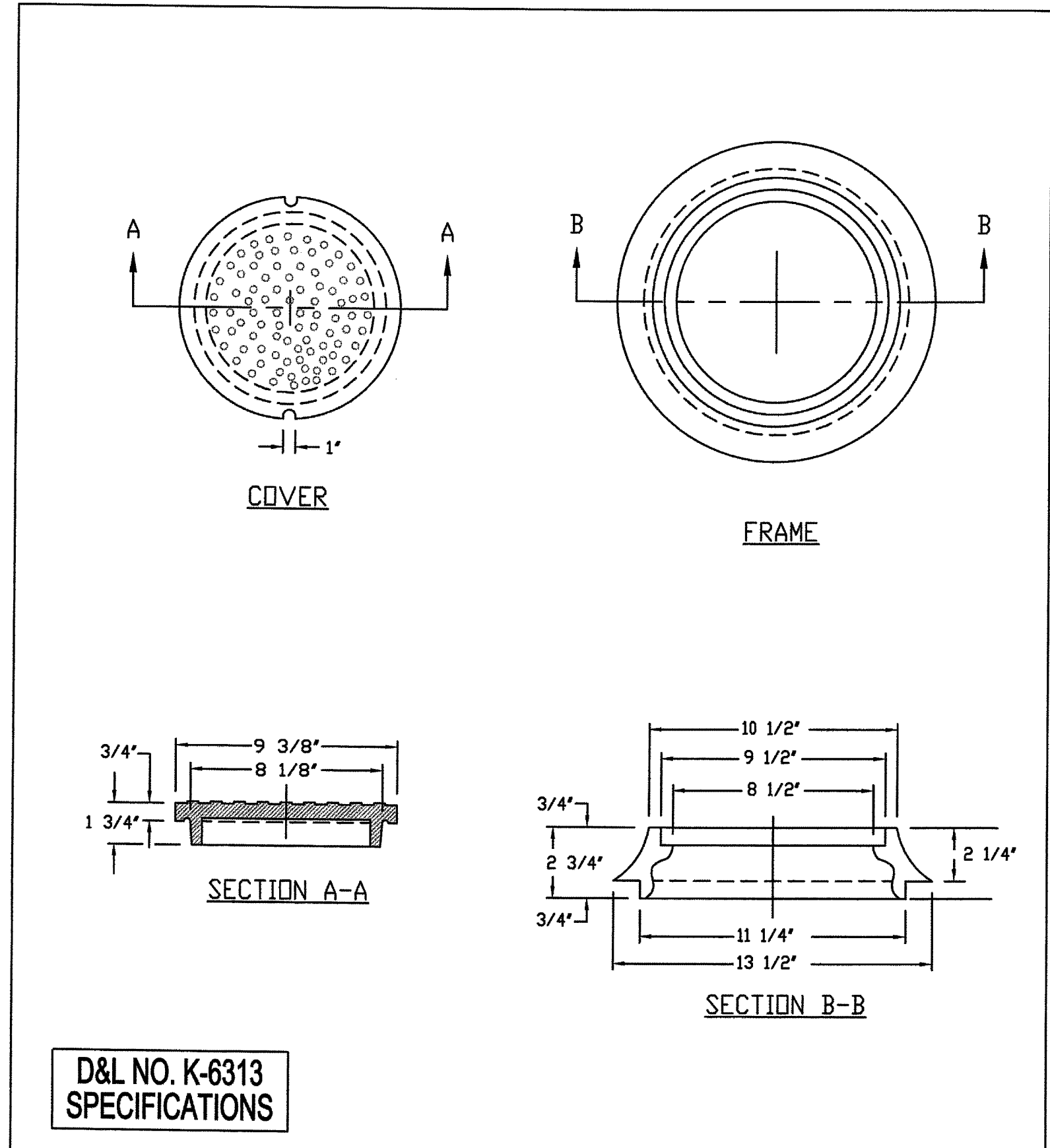


CAP CAN BE PURCHASED FROM SURVEYOR'S OFFICE

WEBER COUNTY SURVEY OFFICE	RING & LID SURVEY MONUMENT	STANDARD PLANS
		Monument Standard
3/28/10	399-8020	SHEET 1 OF 3

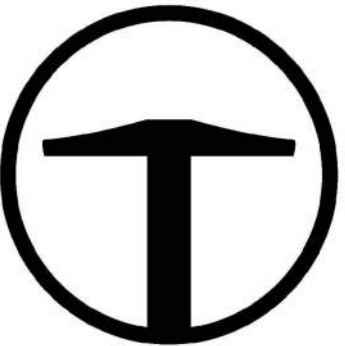


WEBER COUNTY SURVEY OFFICE	Cover Collar For Survey Monuments	STANDARD PLANS
		Monument Specifications
3/28/10	399-8020	SHEET 2 OF 3



D&L NO. K-6313
SPECIFICATIONS

WEBER COUNTY SURVEY OFFICE	RING & LID SURVEY MONUMENT	STANDARD PLANS
		Monument Specifications
3/28/10	399-8020	SHEET 3 OF 3



TALISMAN
CIVIL CONSULTANTS
6217 SOUTH STATE STREET
SUITE 200
MURRAY, UT 84107
801.743.1300

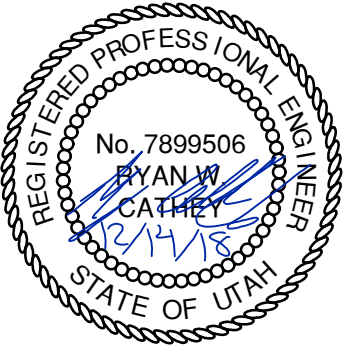
REVISED	DATE	BY	NO.

OVERLOOK PH1, PH2, PH3 AT S.P.M.

DETAILS

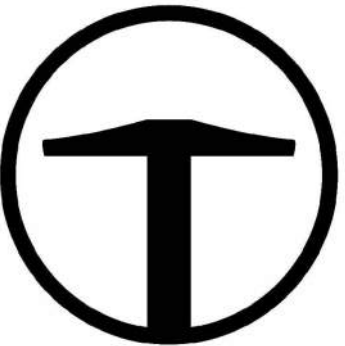
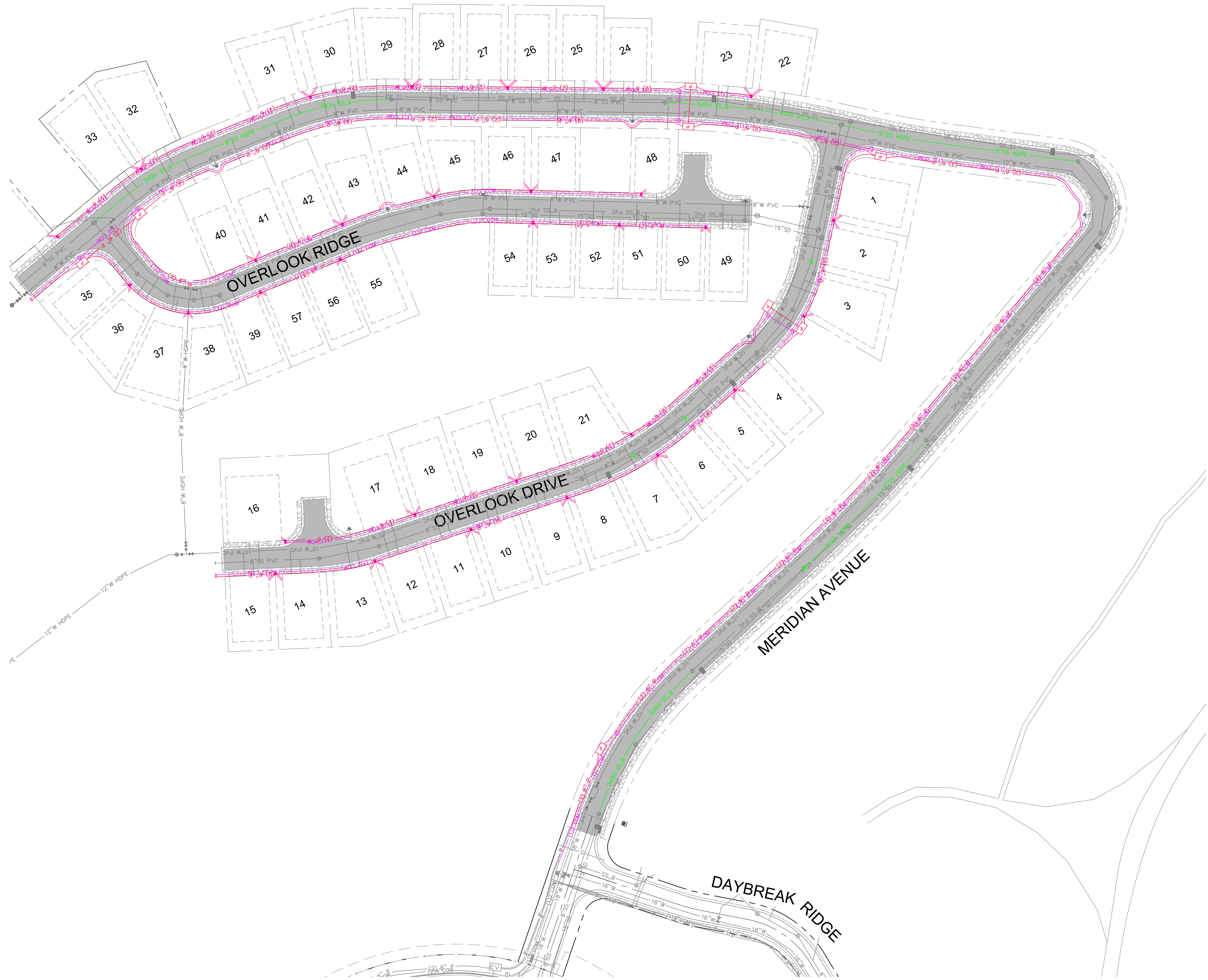
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TCC JOB NUMBER: 18-200.23



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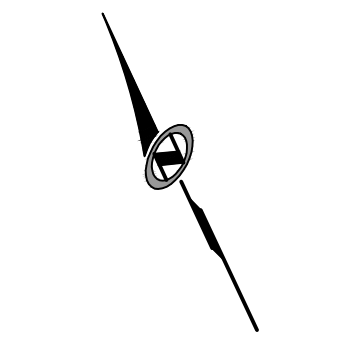
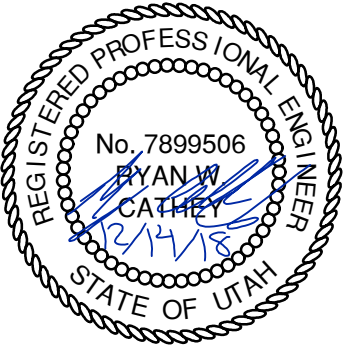
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 CIVIL CONSULTANTS
 6217 SOUTH STATE STREET
 SUITE 200
 MURRAY, UT 84107
 801.743.1300

NO.	BY	DATE	REVISIONS

OVERLOOK PH1, PH2, PH3 AT S.P.M.
 OVERALL DRY UTILITY PLAN

DATE SUBMITTED: 12.14.2018

TCC JOB NUMBER: 18-200.23



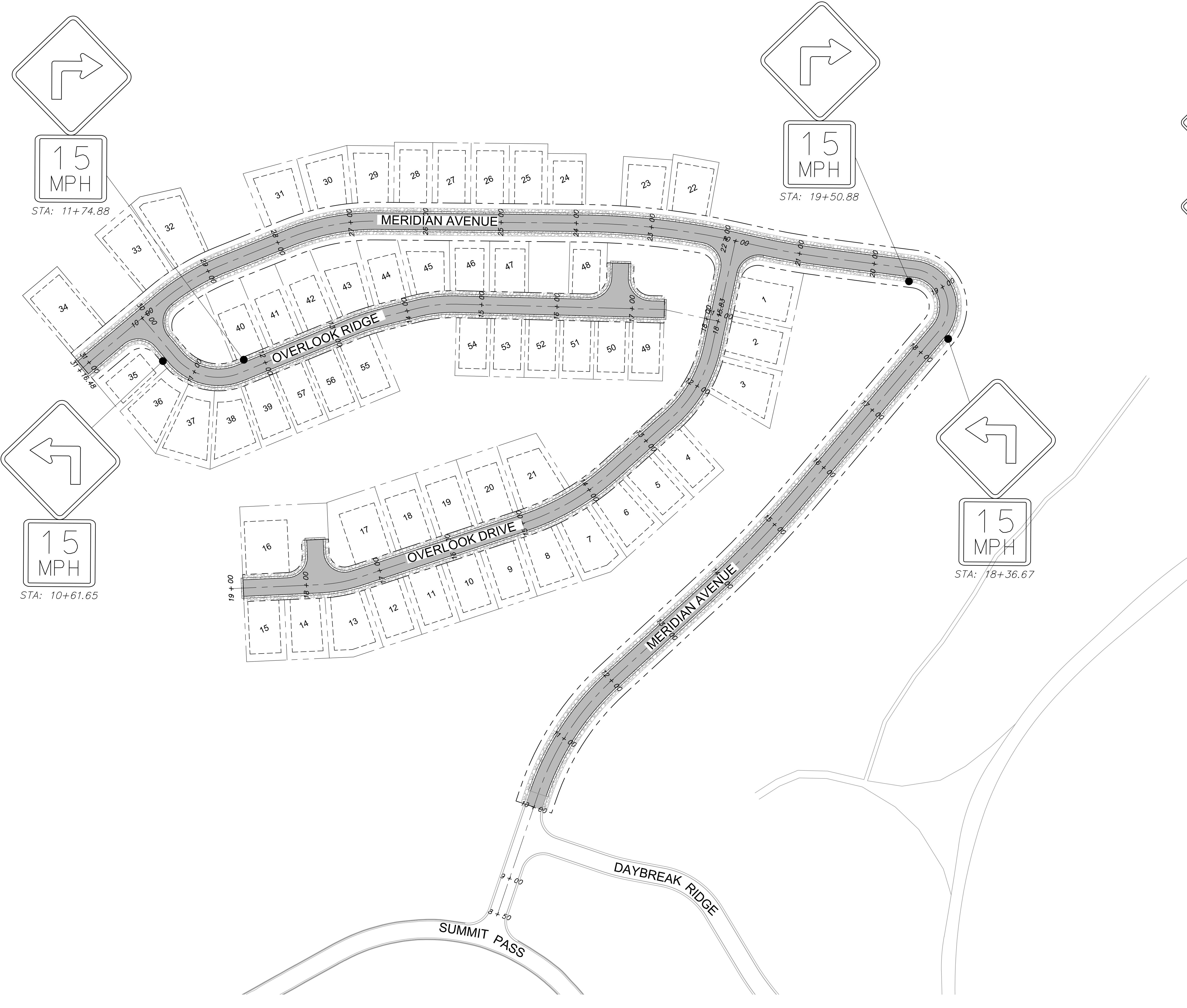
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SHEET NUMBER
800
 31 OF 32



DATE: 12/14/2018 1:59 PM

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- LEGEND**
- 15 MPH
INSTALL POST MOUNTED SIGN W13-1 PER CURRENT M.U.T.C.D. GUIDELINES
 - INSTALL POST MOUNTED SIGN W1-1L PER CURRENT M.U.T.C.D. GUIDELINES
 - INSTALL POST MOUNTED SIGN W1-1R PER CURRENT M.U.T.C.D. GUIDELINES



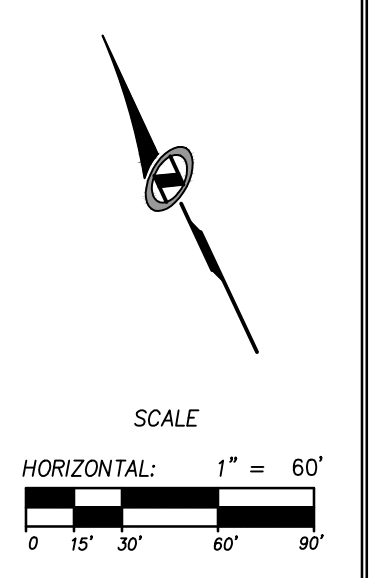
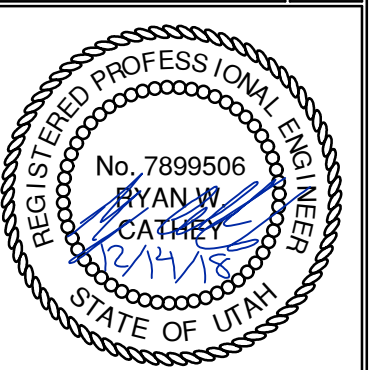
TALISMAN
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MURRAY, UT 84107
801.743.1300

NO.	BY	DATE	REVISIONS

OVERLOOK PH1, PH2, PH3 AT S.P.M.
SIGNAGE PLAN

DATE SUBMITTED: 12.14.2018

TCC JOB NUMBER: 18-200.23



SHEET NUMBER
900
32 OF 32

