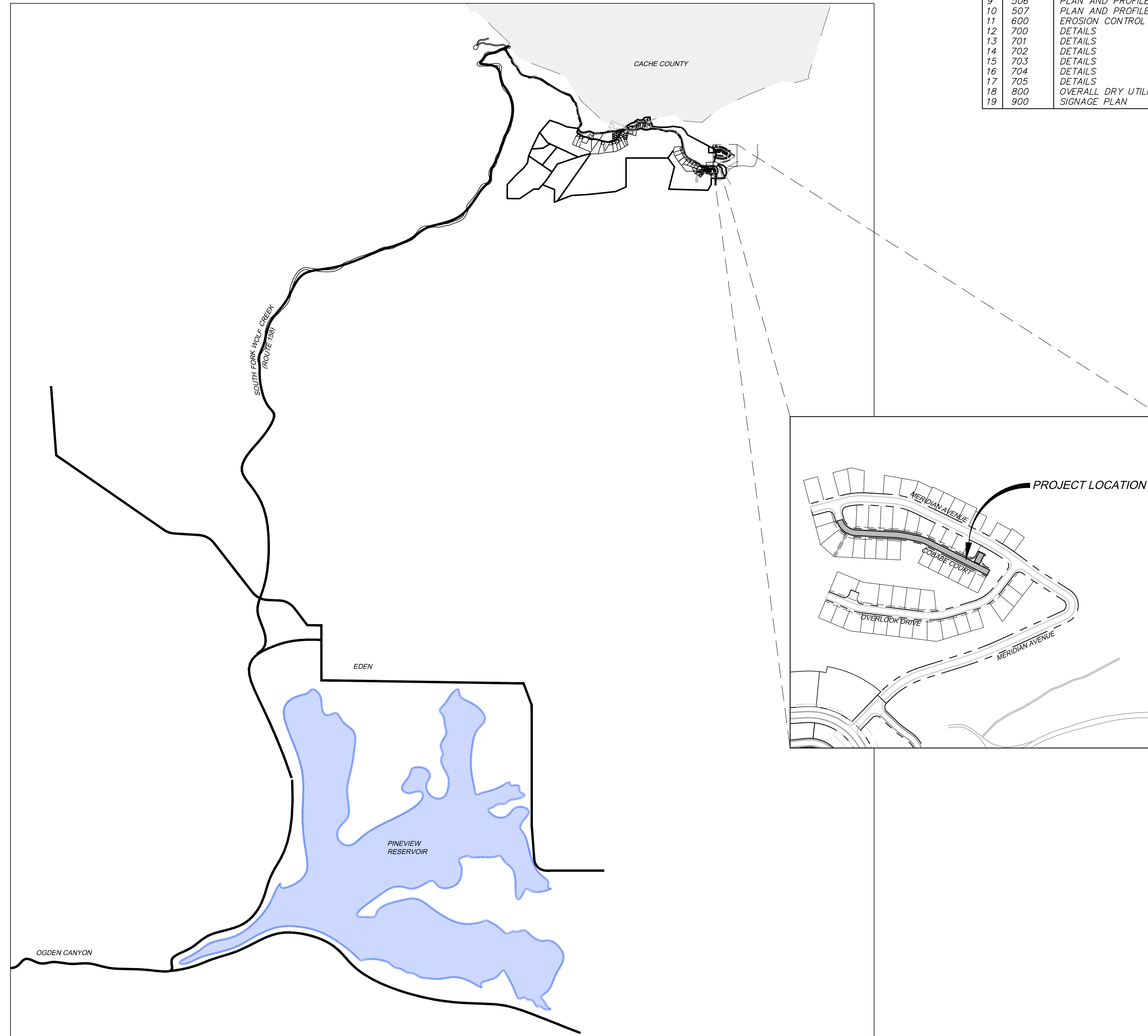


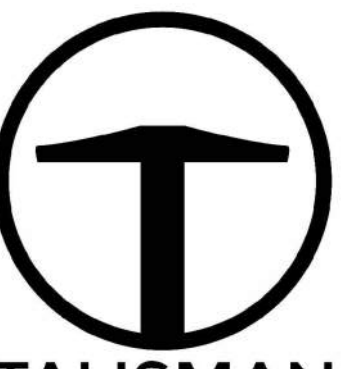
OVERLOOK PHASE 3 POWDER MOUNTAIN SITE CONSTRUCTION DRAWINGS

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



SHEET INDEX:

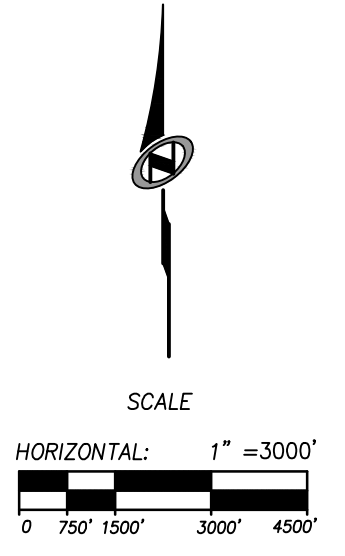
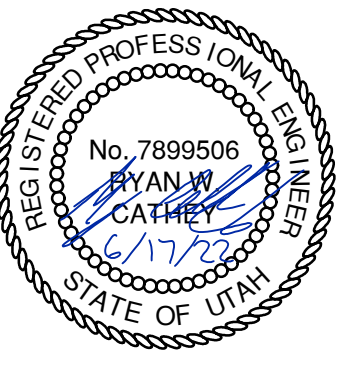
SHEET NO.	SHEET DESCRIPTION
1	001 CIVIL TITLE SHEET
2	002 GENERAL NOTES & LEGEND
3	003 TYPICAL ROAD SECTIONS
4	200 OVERALL SITE & GRADING PLAN
5	201 CUT - FILL PLAN
6	204 ROADWAY SECTIONS - COBABE COURT
7	400 OVERALL UTILITY PLAN
8	500 KEY SHEET
9	506 PLAN AND PROFILE - COBABE COURT STA: 10+00 - 15+00
10	507 PLAN AND PROFILE - COBABE COURT STA: 15+00 - 18+16
11	600 EROSION CONTROL PLAN
12	700 DETAILS
13	701 DETAILS
14	702 DETAILS
15	703 DETAILS
16	704 DETAILS
17	705 DETAILS
18	800 OVERALL DRY UTILITY PLAN
19	900 SIGNAGE PLAN



TALISMAN
CIVIL CONSULTANTS
1588 SOUTH MAIN STREET
SUITE 200
SALT LAKE CITY, UT 84115
801.743.1300

NO.	DATE	BY	REVISIONS
1	05/17/2022	JRP	UPDATE TO 2021 PERMITS STANDARDS
2	05/17/2022	JRP	REV. REVIEW COMMENTS, WRNY ADD

OVERLOOK PH3 AT POWDER MTN
CIVIL TITLE SHEET
DATE SUBMITTED: 10/8/2019
TCC JOB NUMBER: 18-200.23



SHEET NUMBER
001
1 OF 19

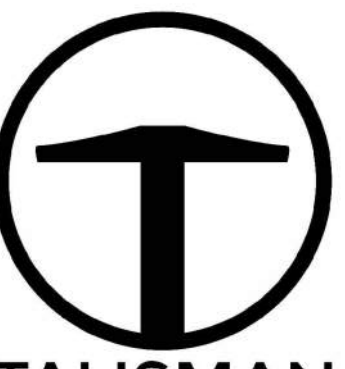


CONDITIONAL APPROVAL PMWSID
CONDITIONS NOTED IN APPROVAL LETTER DATED 6-23-22

[Signature]

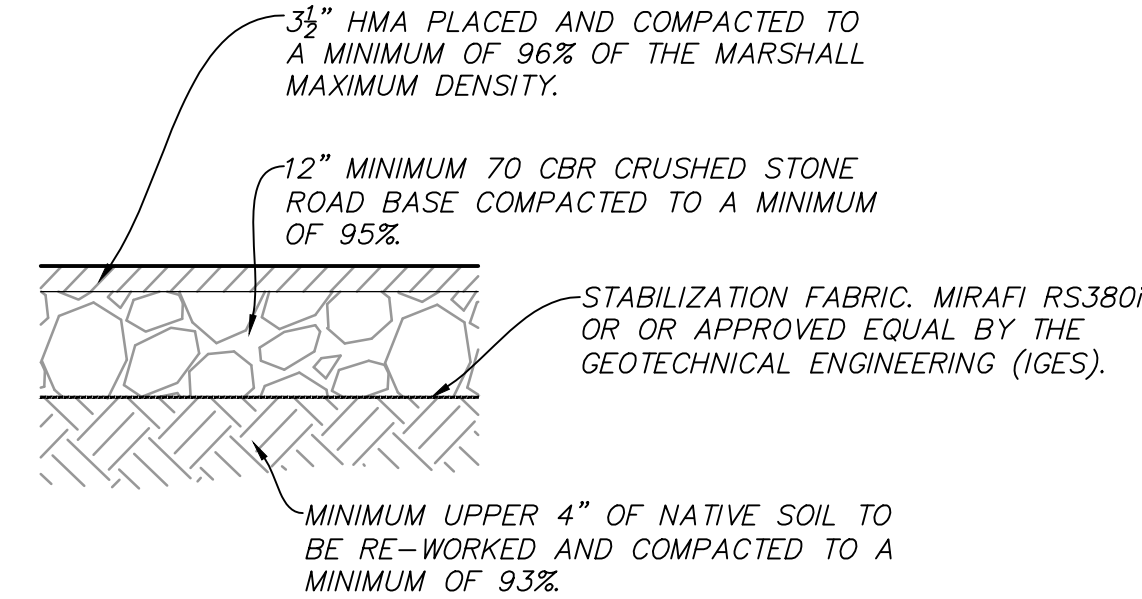
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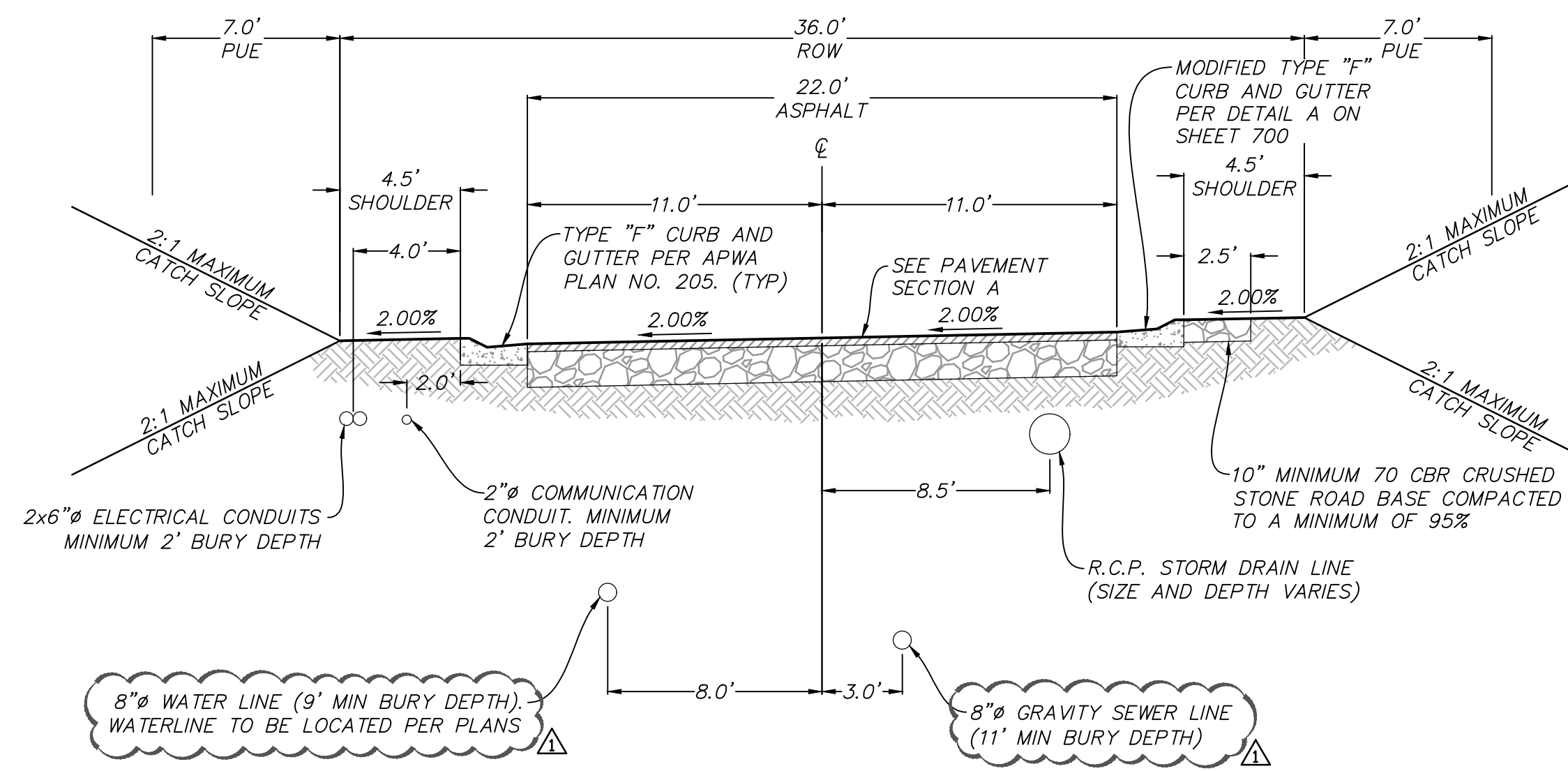
TALISMAN
CIVIL CONSULTANTS
1588 SOUTH MAIN STREET
SUITE 200
SALT LAKE CITY, UT 84116
801.743.1300

NO.	BY	DATE	REVISIONS
1	ARP	05/17/2022	UPDATE TO 2021 PAVED STANDARDS
2	ARP	06/17/2022	REV 1 REVIEW COMMENTS, WRNY ADD



NOTE: PAVEMENT SECTION DETERMINED BY IGES GEOTECHNICAL REPORT DATED FEBRUARY 12, 2019 (REV.2).

PAVEMENT SECTION A

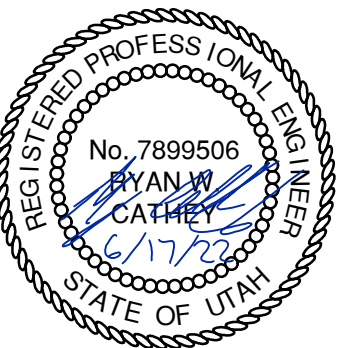


TYPICAL SECTION: COBABE COURT

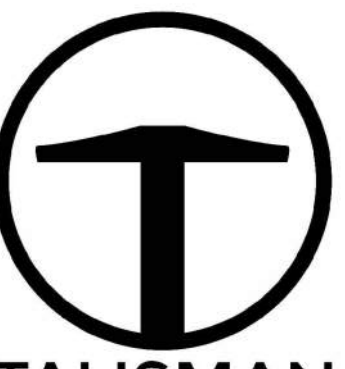
OVERLOOK PH3 AT POWDER MTN
TYPICAL ROAD SECTIONS

DATE SUBMITTED: 10/8/2019

TCC JOB NUMBER: 18-200.23



SHEET NUMBER
003
3 OF 19



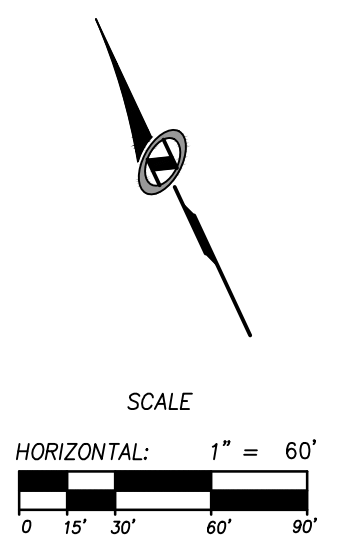
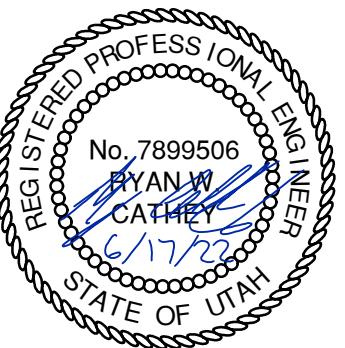
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1588 SOUTH MAIN STREET
SUITE 200
SALT LAKE CITY, UT 84116
801.743.1300

NO.	BY	DATE	REVISIONS
1	JRP	05/17/2022	UPDATE TO 2021 FINISHED STANDARDS
2	JRP	06/17/2022	REV. REVIEW COMMENTS, ENTRY ADD.

OVERLOOK PH3 AT POWDER MTN OVERALL SITE PLAN

DATE SUBMITTED: 10/8/2019

TCC JOB NUMBER: 18.200.23

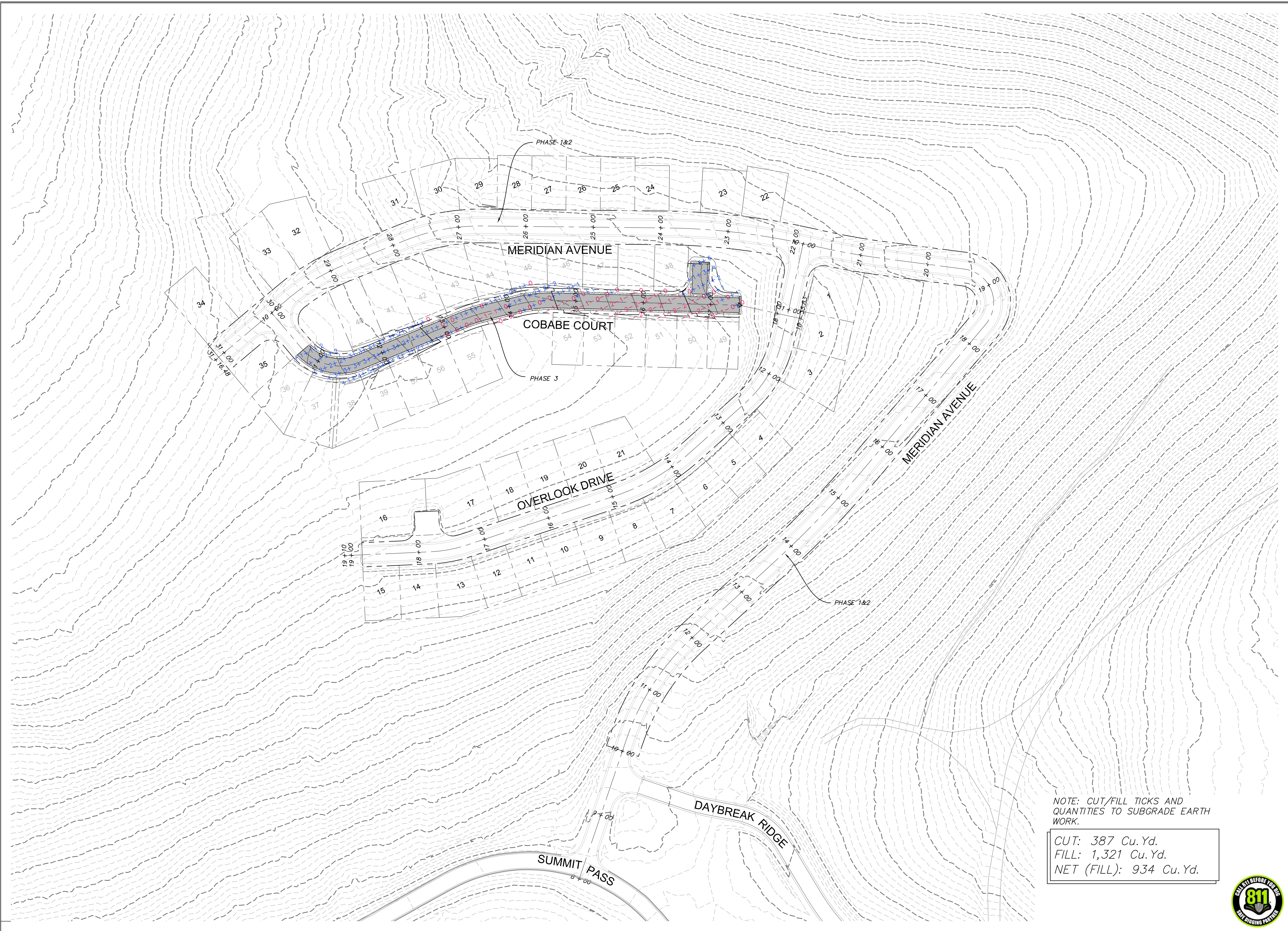


SHEET NUMBER
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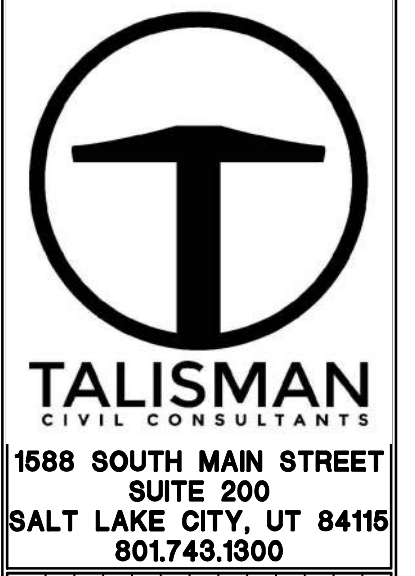
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NOTE: CUT/FILL TICKS AND QUANTITIES TO SUBGRADE EARTH WORK.

CUT: 387 Cu. Yd.
 FILL: 1,321 Cu. Yd.
 NET (FILL): 934 Cu. Yd.

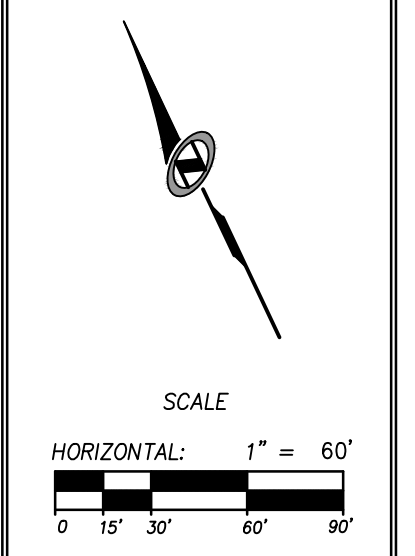
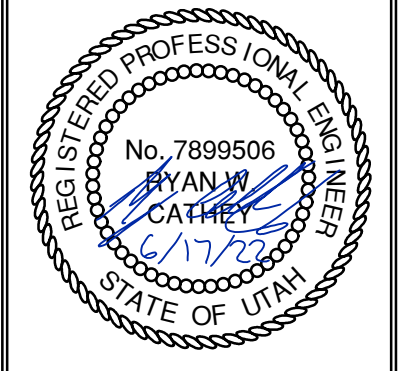


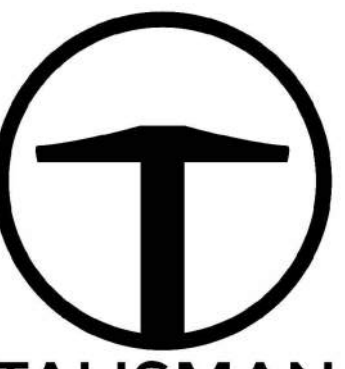
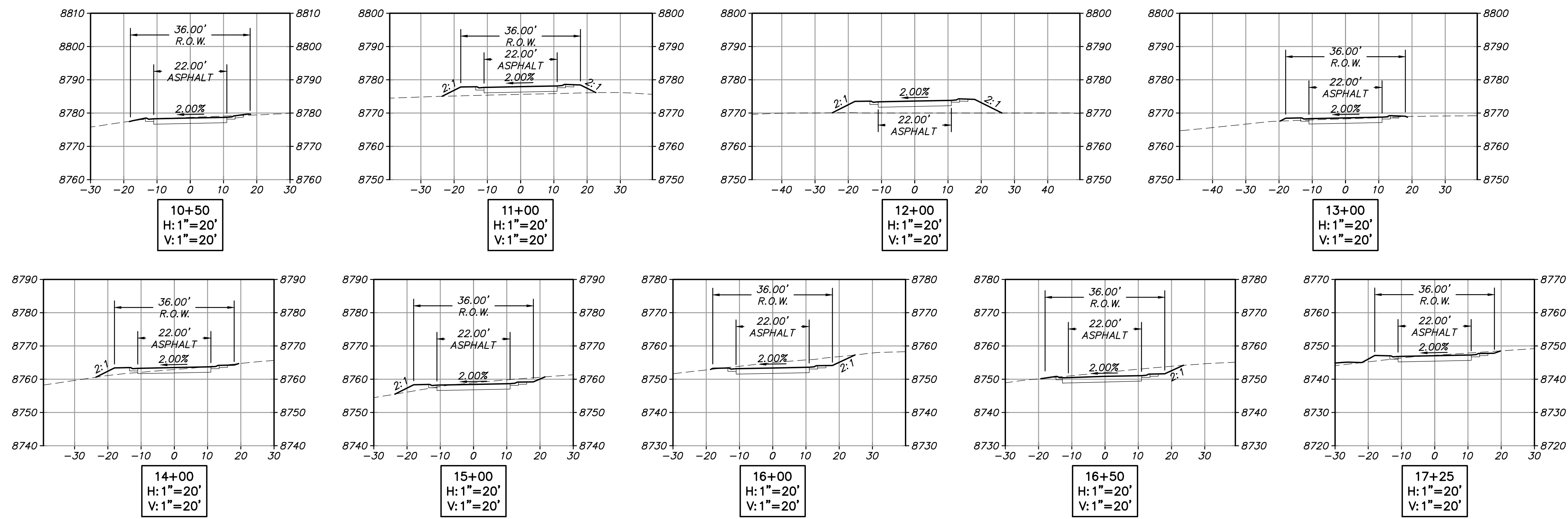
NO.	DATE	BY	REVISIONS
1	05/17/2022	JRP	UPDATE TO 2021 TOWN OF STANDARDS
2	06/17/2022	JRP	REV. REVIEW COMMENTS, ENTRY ADD

OVERLOOK PH3 AT POWDER MTN
CUT - FILL PLAN

DATE SUBMITTED: 10/8/2019

TCC JOB NUMBER: 18-20.23





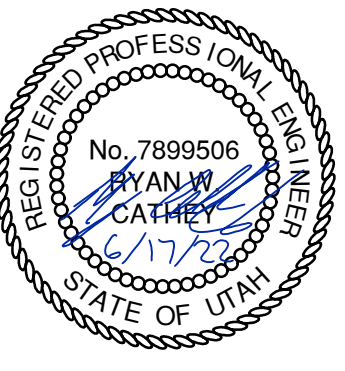
TALISMAN
CIVIL CONSULTANTS
1588 SOUTH MAIN STREET
SUITE 200
SALT LAKE CITY, UT 84115
801.743.1300

NO.	BY	DATE	REVISIONS
1	JRP	05/17/2022	UPDATE TO 2021 FINISHED STANDARDS
2	JRP	06/17/2022	REV 1 REVIEW COMMENTS, ENTRY ADD

OVERLOOK PH3 AT POWDER MTN
ROADWAY SECTIONS - COBABE COURT

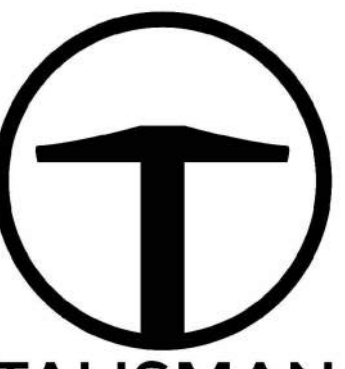
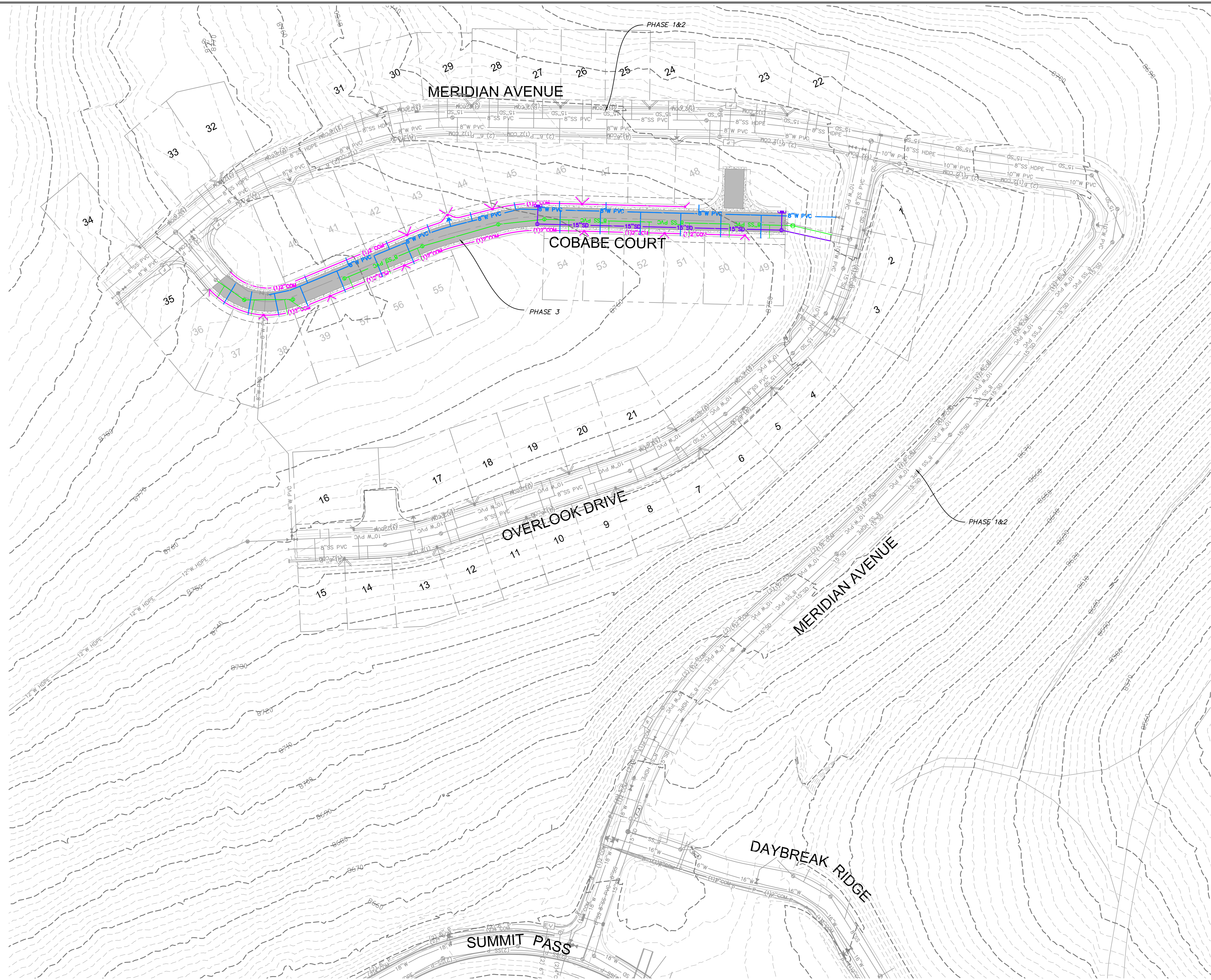
DATE SUBMITTED: 10/8/2019

TCC JOB NUMBER: 18-20.23



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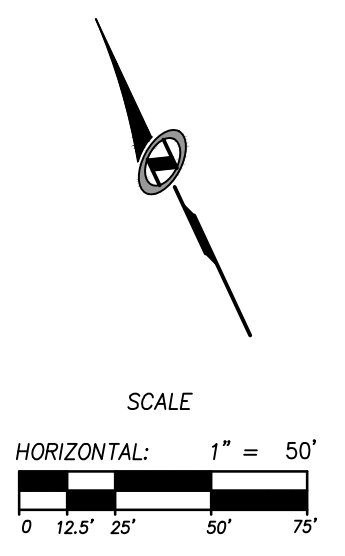
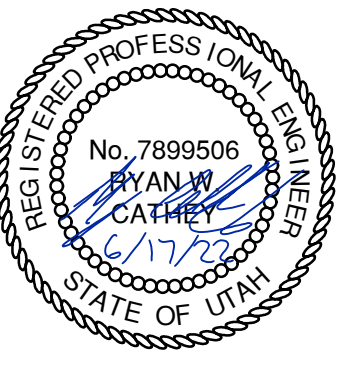
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SALT LAKE CITY, UT 84116
801.743.1300

NO.	BY	DATE	REVISIONS
1	JRP	05/17/2022	UPDATE TO 2021 TOWN OF STANDARDS
2	JRP	06/17/2022	REV. REVIEW COMMENTS, ENTRY ADD

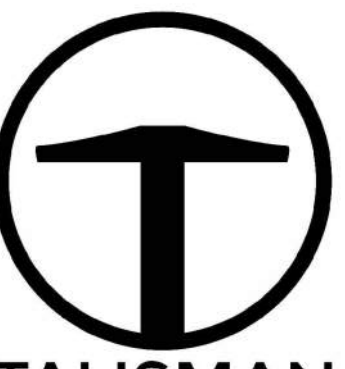
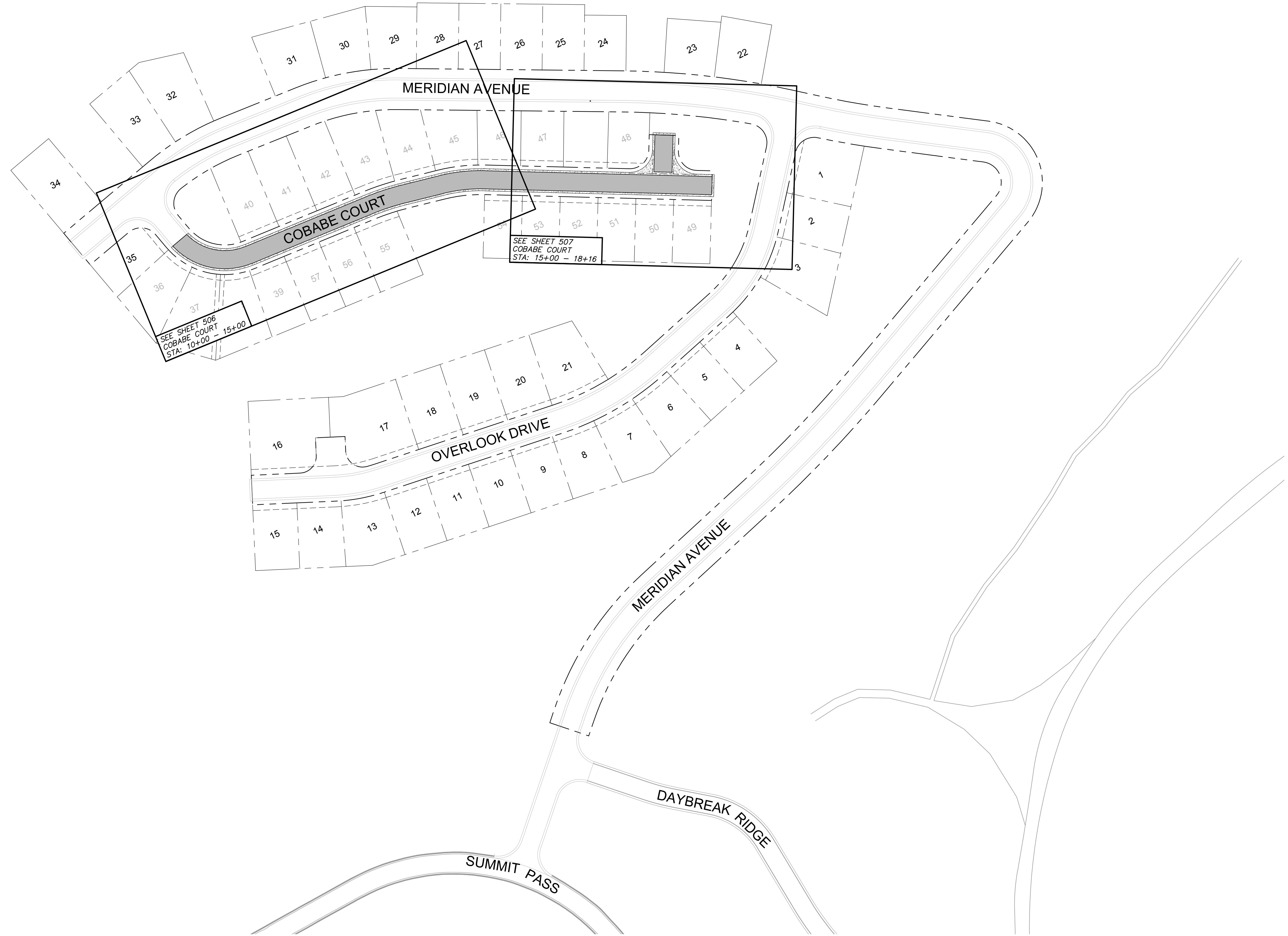
OVERLOOK PH3 AT POWDER MTN
OVERALL UTILITY PLAN

DATE SUBMITTED: 10/8/2019

TCC JOB NUMBER: 18-20.23



SHEET NUMBER
400
7 OF 19



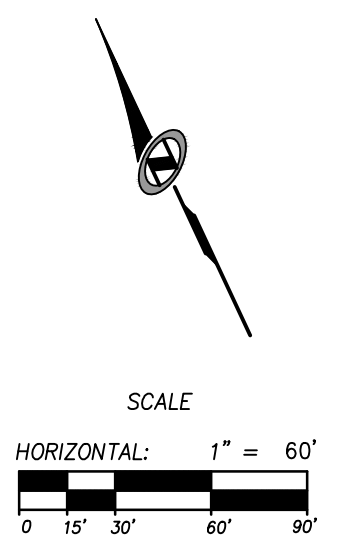
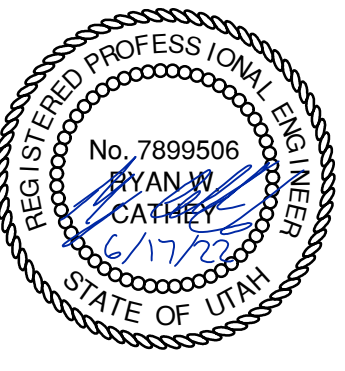
TALISMAN
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SUITE 200
SALT LAKE CITY, UT 84116
801.743.1300

NO.	BY	DATE	REVISIONS
1	JRP	05/17/2022	UPDATE TO 2021 PERMITS STANDARDS
2	JRP	05/17/2022	REV. REVIEW COMMENTS, WRNRY ADD

OVERLOOK PH3 AT POWDER MTN
KEY SHEET

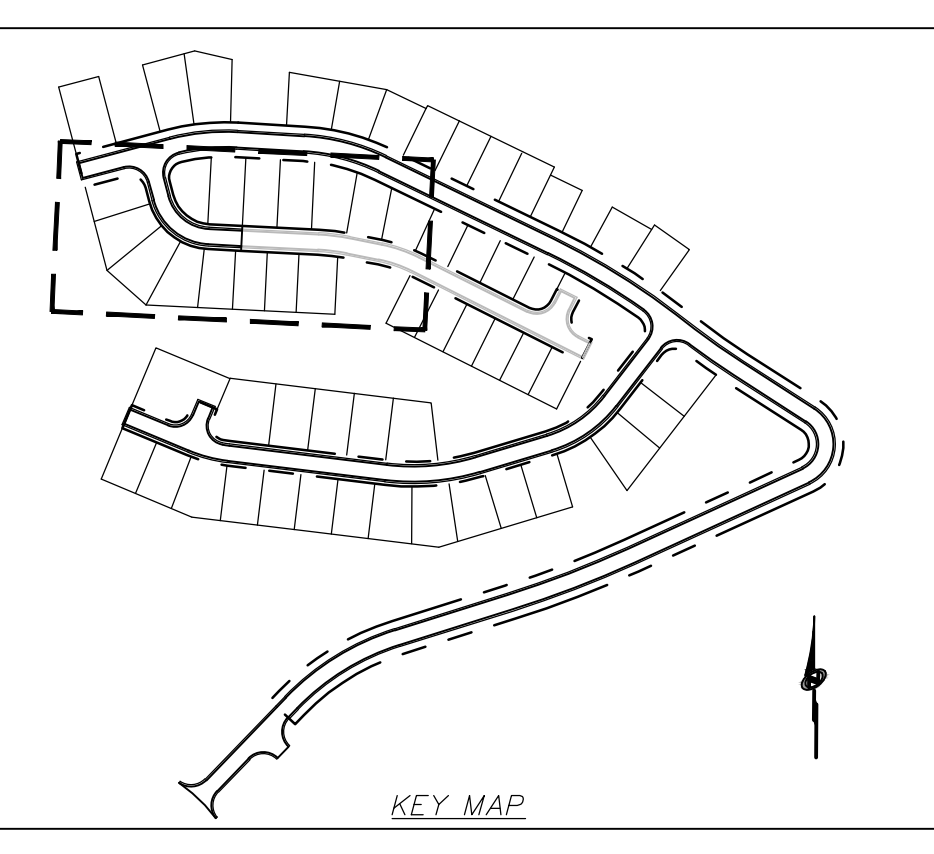
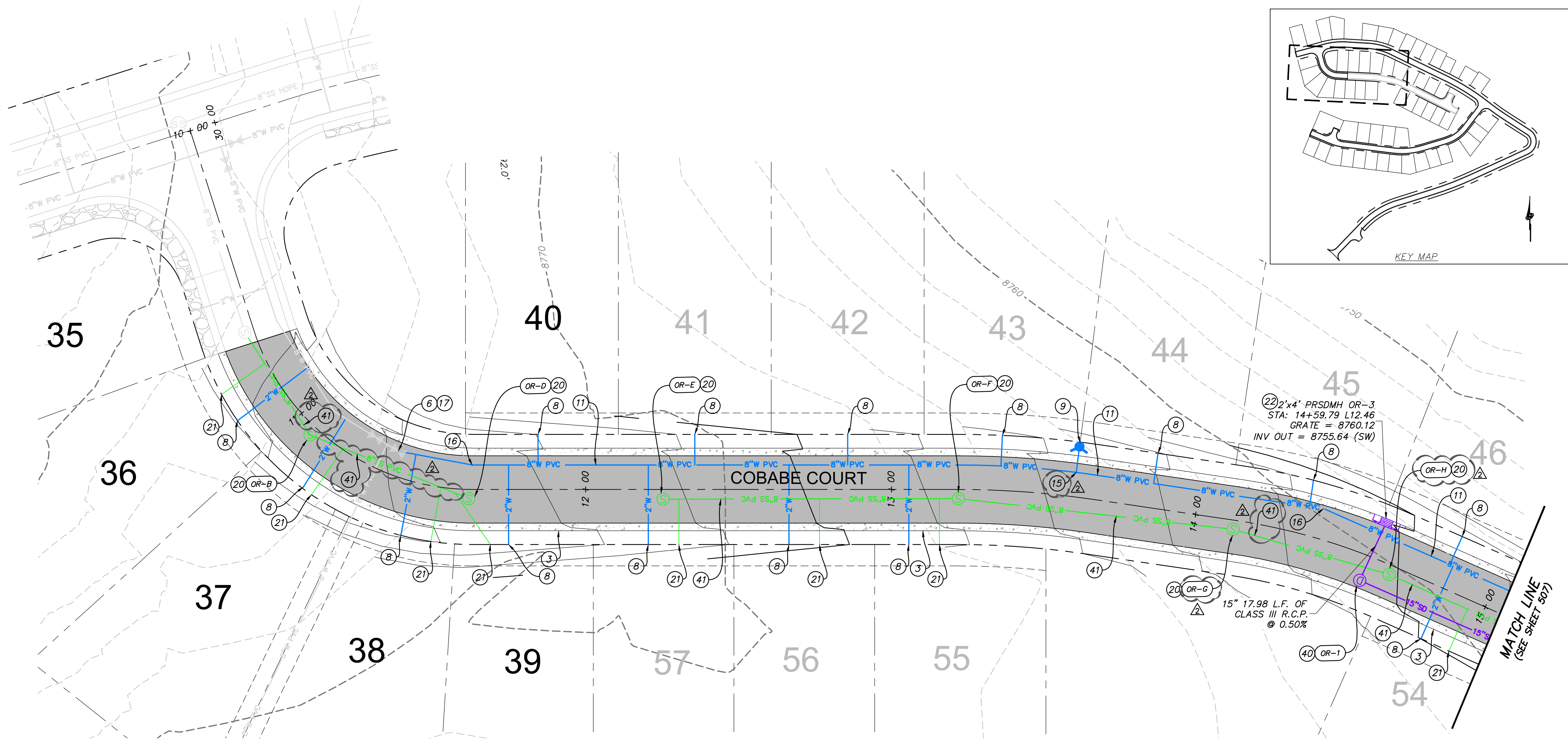
DATE SUBMITTED: 10/8/2019

TCC JOB NUMBER: 18-20.23

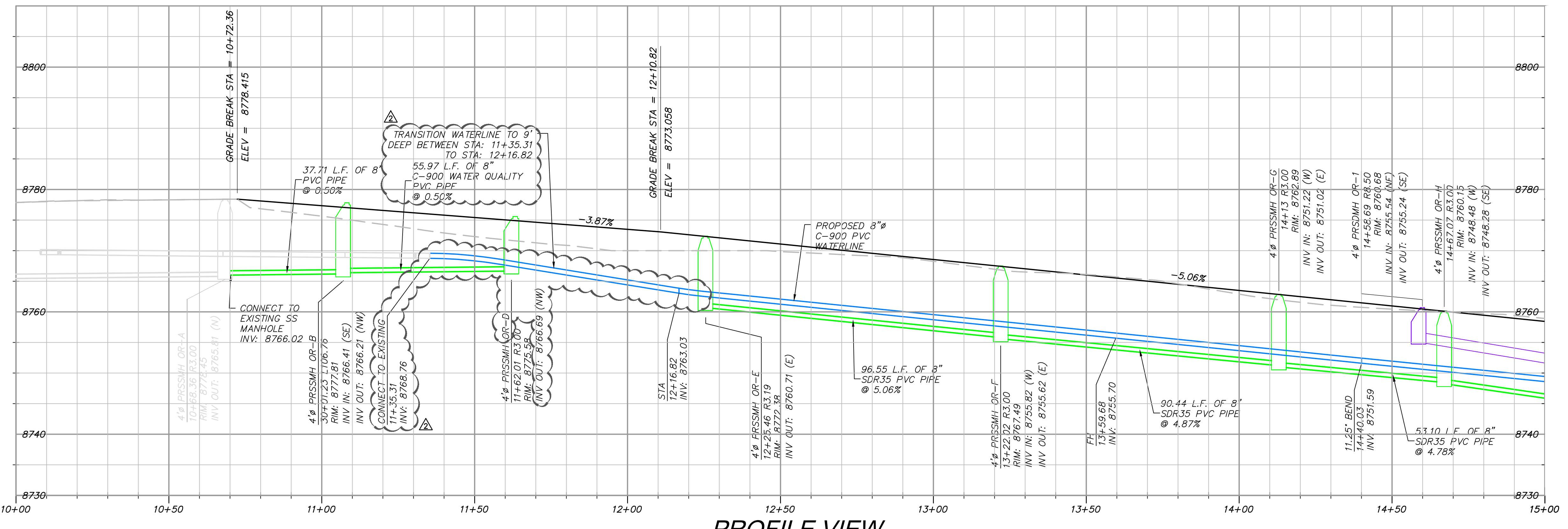


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8 OF 19





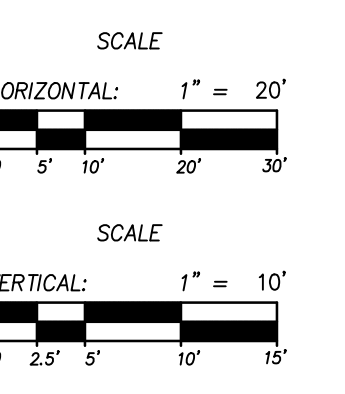
COBABE COURT
STA: 10+00 TO 12+10.82



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 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 INSTALL 2" WATER SERVICE LATERAL TO CURB STOP PER DETAIL DW-5 & DW-7 ON SHEET 702. SERVICE LATERAL AND METER BEYOND CURB STOP INSTALLED BY OTHERS.
 - 9 FIRE HYDRANT ASSEMBLY PER DETAIL DW-3 ON SHEET 704.
 - 10 AIR VACUUM RELIEF VALVE ASSEMBLY PER DETAIL DW-10 ON SHEET 704.
 - 11 INSTALL 8" WATER LINE PER DETAIL DW-1 AND DW-2 ON SHEET 701.
 - 12 18"x10" REDUCER WITH THRUST BLOCKING PER DETAIL DW-1 ON SHEET 701.
 - 13 12"x8" REDUCER WITH THRUST BLOCKING PER DETAIL DW-1 ON SHEET 701.
 - 14 8" TEE WITH THRUST BLOCKING PER DETAIL DW-1 ON SHEET 701.
 - 15 8"x6"x8" TEE WITH THRUST BLOCKING PER DETAIL DW-1 ON SHEET 701.
 - 16 8" 11.25' BEND WITH THRUST BLOCKING PER DETAIL DW-1 ON SHEET 701.
 - 17 8" 22.5' BEND WITH THRUST BLOCKING PER DETAIL DW-1 ON SHEET 701.
 - 18 8" 45' BEND WITH THRUST BLOCKING PER DETAIL DW-1 ON SHEET 701.
 - 19 8" GATE VALVE WITH THRUST BLOCKING PER DETAIL DW-1 ON SHEET 701.
 - 20 4" SANITARY SEWER MANHOLE PER DETAIL SS-2 ON SHEET 702.
 - 21 4" SANITARY SEWER LATERAL PER DETAIL SS-3 ON SHEET 702.
 - 22 2'x4' CATCH BASIN PER APWA PLAN NO. 315 ON SHEET 700.
 - 23 CATCH BASIN PER APWA PLAN NO. 315 ON SHEET 700.
 - 24 10"x8"x10" TEE WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562 ON SHEET 703.
 - 25 CAP AND MARK UTILITY LINE FOR FUTURE CONNECTION.
 - 26 5" SANITARY SEWER MANHOLE PER DETAIL SS-2 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 DETAIL DW-1 ON SHEET 701.
 - 29 10"x6"x10" TEE WITH THRUST BLOCKING PER DETAIL DW-1 ON SHEET 701.
 - 30 10" 11.25' BEND WITH THRUST BLOCKING PER DETAIL DW-1 ON SHEET 701.
 - 31 10" 22.5' BEND WITH THRUST BLOCKING PER DETAIL DW-1 ON SHEET 701.
 - 32 10" 45' BEND WITH THRUST BLOCKING PER DETAIL DW-1 ON SHEET 701.
 - 33 10" GATE VALVE WITH THRUST BLOCKING PER DETAIL DW-1 ON SHEET 701.
 - 34 10"x8" REDUCER WITH THRUST BLOCKING PER DETAIL DW-1 ON SHEET 701.
 - 35 12"x10" REDUCER WITH THRUST BLOCKING PER DETAIL DW-1 ON SHEET 701.
 - 36 12" 22.5' BEND WITH THRUST BLOCKING PER DETAIL DW-1 ON SHEET 701.
 - 37 INSTALL PIPE ANCHORS ON 3:1 OR STEEPER SLOPES PER DETAIL A SHEET 704.
 - 38 INSTALL HOPE WATER PIPE, OUTSIDE OF ROADWAY, PER APWA PLAN NO. 381 AND 382. PIPE BEDDING ON ALL HOPE SHALL BE 3" MINUS CLEAN ROCK AND SHALL EXTEND TO 1' ABOVE THE TOP OF PIPE.
 - 39 INSTALL MANHOLE PIPE DROP PER DETAIL SS-4 ON SHEET 702.
 - 40 4" PRECAST STORM DRAIN MANHOLE PER APWA PLAN NO. 341 ON SHEET 701 WITH SOLID LID PER APWA PLAN NO. 302.
 - 41 INSTALL 8" SANITARY SEWER LINE PER DETAIL SS-1 SHEET 701.
 - 42 INSTALL 4" WATERWAY PER APWA PLAN NO. 211 ON SHEET 705.
 - 43 INSTALL WATERWAY TRANSITION STRUCTURE PER APWA PLAN NO. 213 ON SHEET 705.



TALISMAN CIVIL CONSULTANTS
1588 SOUTH MAIN STREET SUITE 200 SALT LAKE CITY, UT 84115 801.743.1300

OVERLOOK PH3 AT POWDER MTN PLAN AND PROFILE
COBABE COURT STA: 10+00 - 15+00
DATE SUBMITTED: 10/8/2019

TCC JOB NUMBER: 18-20-23

DATE: 05/17/2022
BY: JRP
REV: 1

NO. 1
DATE: 05/17/2022
BY: JRP
REV: 1

NO. 2
DATE: 05/17/2022
BY: JRP
REV: 1

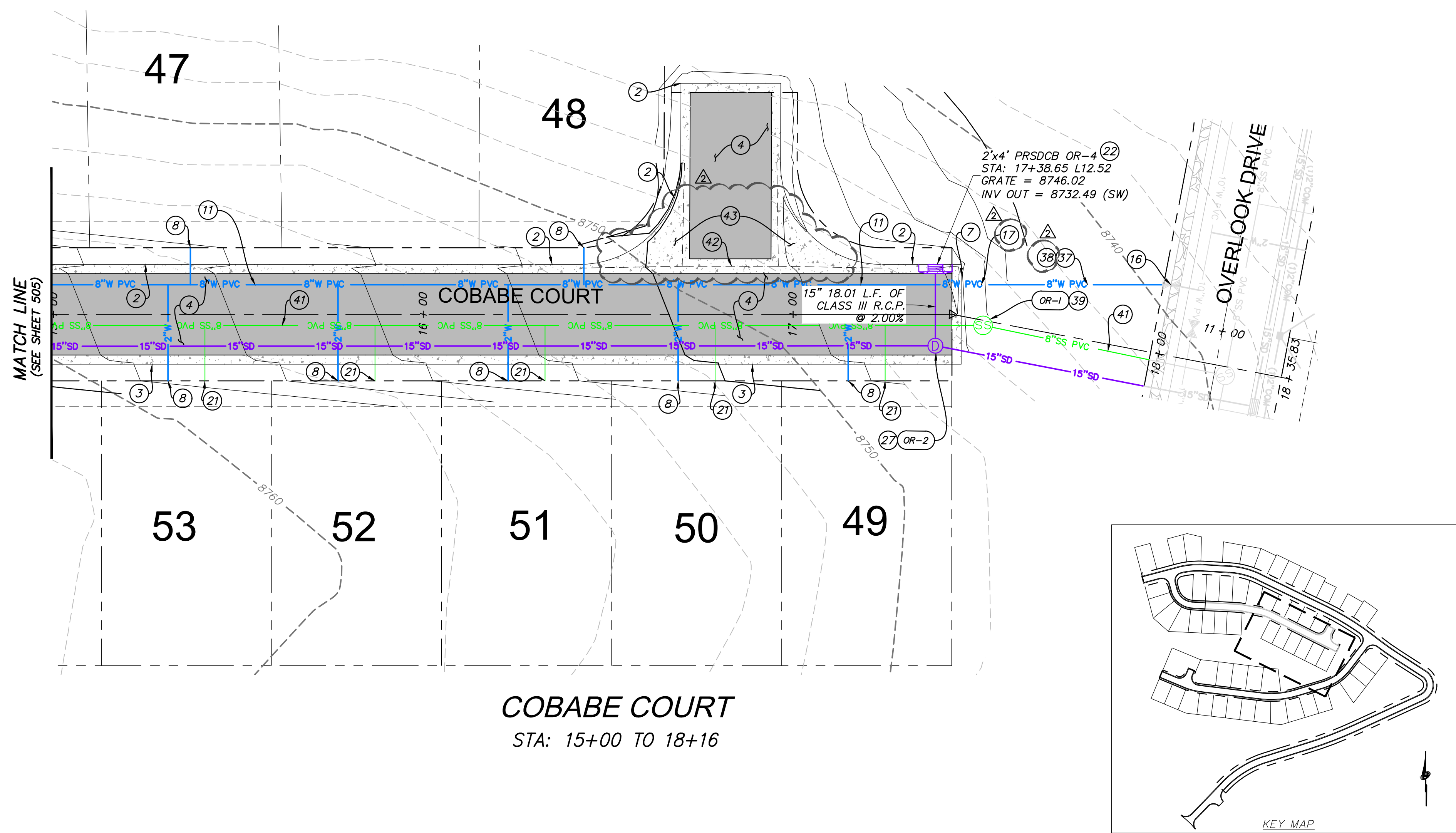
REG. LICENSED PROFESSIONAL ENGINEER
No. 7899506
RYAN W. CATHER
STATE OF UTAH

SCALE
HORIZONTAL: 1" = 20'
VERTICAL: 1" = 10'

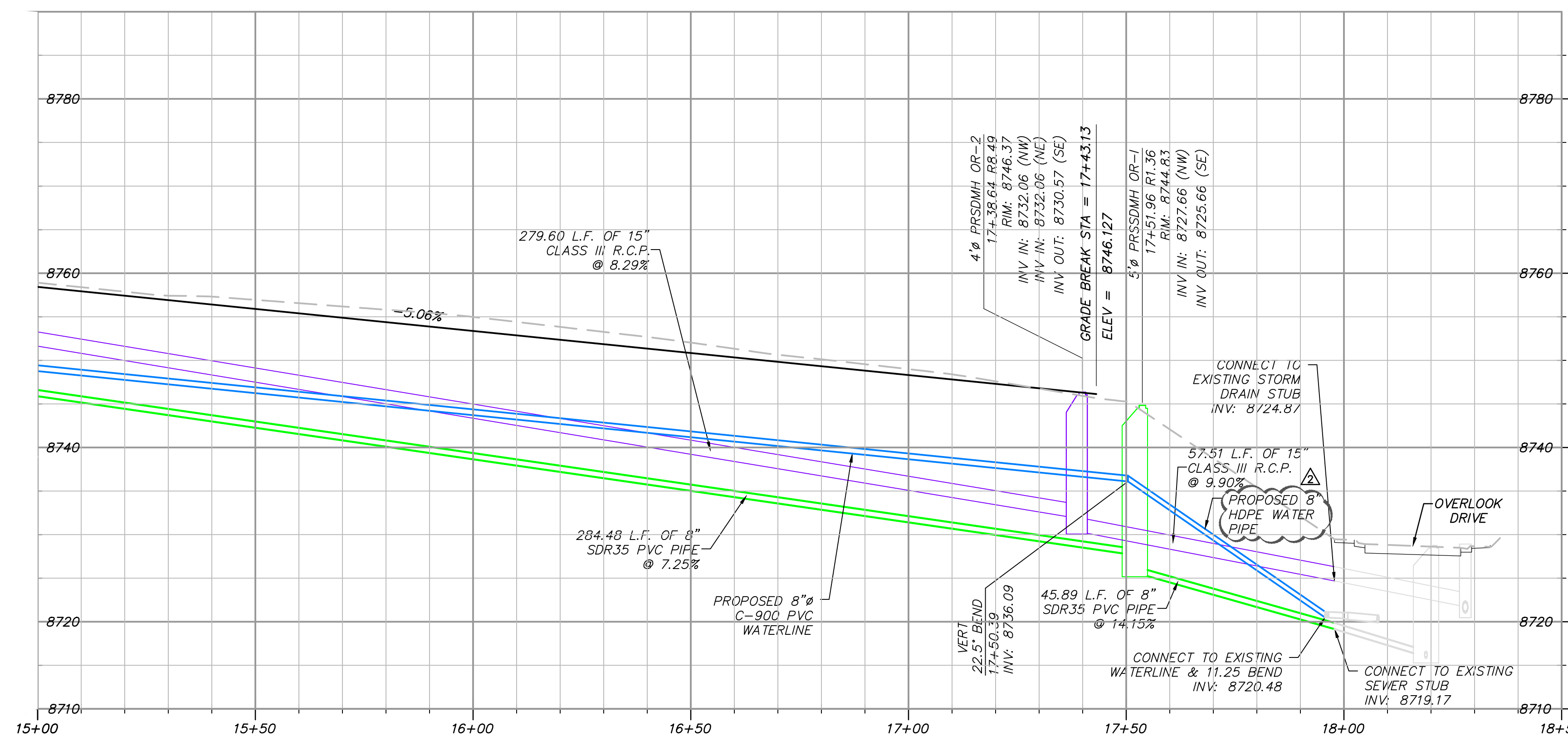
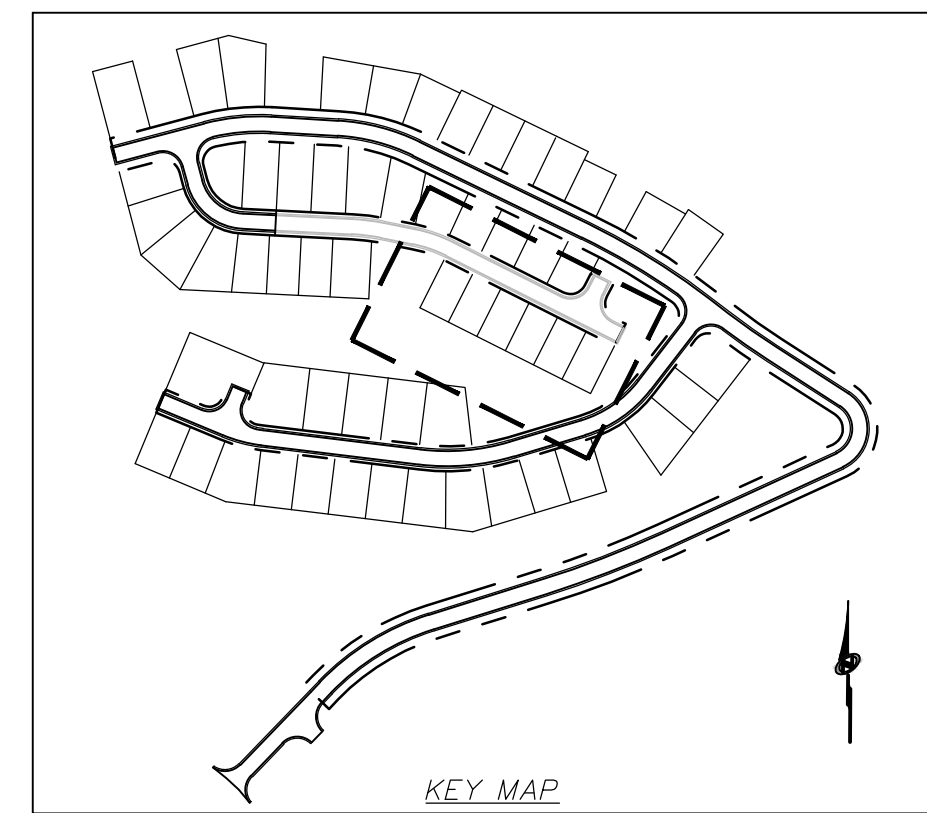
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9 OF 19

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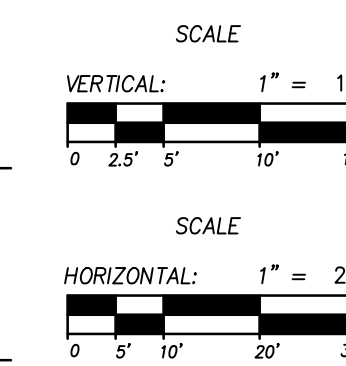
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COBABE COURT
STA: 15+00 TO 18+16

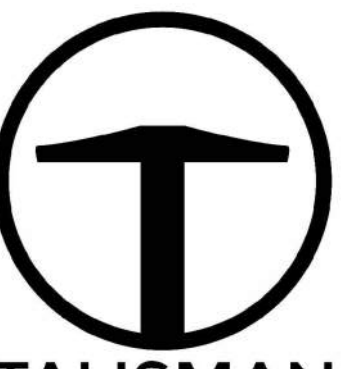


PROFILE VIEW



SITE SCOPE OF WORK:

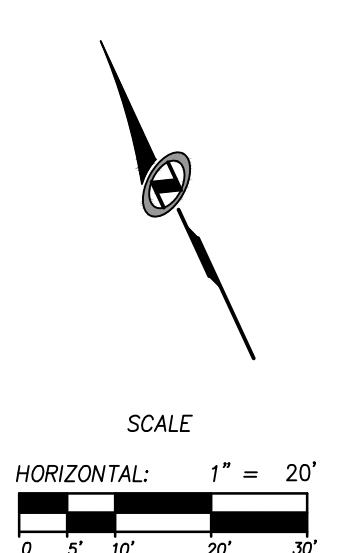
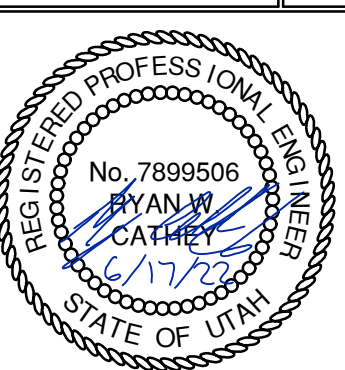
- NOTE: DRY UTILITY LAYOUT IS PRELIMINARY, PENDING COORDINATION WITH UTILITY AGENCIES.
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 - TYPE "F" CURB AND GUTTER PER APWA PLAN NO. 205 ON SHEET 700.
 - MODIFIED TYPE "F" CURB AND GUTTER PER DETAIL A/SHEET 700.
 - ASPHALT PAVEMENT PER PAVEMENT SECTION A/SHEET 003.
 - CONNECT TO EXISTING CATCH BASIN.
 - CONNECT TO EXISTING 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.
 - INSTALL 2" WATER SERVICE LATERAL TO CURB STOP PER DETAIL DW-5 & DW-7 ON SHEET 702. SERVICE LATERAL AND METER BEYOND CURB STOP INSTALLED BY OTHERS.
 - FIRE HYDRANT ASSEMBLY PER DETAIL DW-3 ON SHEET 704.
 - AIR VACUUM RELIEF VALVE ASSEMBLY PER DETAIL DW-15 ON SHEET 704.
 - INSTALL 8" WATER LINE PER DETAIL DW-1 AND DW-2 ON SHEET 701.
 - 18"x10" REDUCER WITH THRUST BLOCKING PER DETAIL DW-1 ON SHEET 701.
 - 12"x8" REDUCER WITH THRUST BLOCKING PER DETAIL DW-1 ON SHEET 701.
 - 8" TEE WITH THRUST BLOCKING PER DETAIL DW-1 ON SHEET 701.
 - 8"x6"x8" TEE WITH THRUST BLOCKING PER DETAIL DW-1 ON SHEET 701.
 - 8" 11.25' BEND WITH THRUST BLOCKING PER DETAIL DW-1 ON SHEET 701.
 - 8" 22.5' BEND WITH THRUST BLOCKING PER DETAIL DW-1 ON SHEET 701.
 - 8" 45' BEND WITH THRUST BLOCKING PER DETAIL DW-1 ON SHEET 701.
 - 8" GATE VALVE WITH THRUST BLOCKING PER DETAIL DW-1 ON SHEET 701.
 - 4" SANITARY SEWER MANHOLE PER DETAIL SS-2 ON SHEET 702.
 - 4" SANITARY SEWER LATERAL PER DETAIL SS-3 ON SHEET 702.
 - 2'x4' CATCH BASIN PER APWA PLAN NO. 315 ON SHEET 700.
 - CATCH BASIN PER APWA PLAN NO. 315 ON SHEET 700.
 - 10"x8"x10" TEE WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562 ON SHEET 703.
 - CAP AND MARK UTILITY LINE FOR FUTURE CONNECTION.
 - 5" SANITARY SEWER MANHOLE PER DETAIL SS-2 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 DETAIL DW-1 ON SHEET 701.
 - 10"x6"x10" TEE WITH THRUST BLOCKING PER DETAIL DW-1 ON SHEET 701.
 - 10" 11.25' BEND WITH THRUST BLOCKING PER DETAIL DW-1 ON SHEET 701.
 - 10" 22.5' BEND WITH THRUST BLOCKING PER DETAIL DW-1 ON SHEET 701.
 - 10" 45' BEND WITH THRUST BLOCKING PER DETAIL DW-1 ON SHEET 701.
 - 10"x8" REDUCER WITH THRUST BLOCKING PER DETAIL DW-1 ON SHEET 701.
 - 12"x10" REDUCER WITH THRUST BLOCKING PER DETAIL DW-1 ON SHEET 701.
 - 12"x8" 22.5' BEND WITH THRUST BLOCKING PER DETAIL DW-1 ON SHEET 701.
 - INSTALL PIPE ANCHORS ON 3:1 OR STEEPER SLOPES PER DETAIL A SHEET 704.
 - INSTALL HDPE WATER PIPE, OUTSIDE OF ROADWAY, PER APWA PLAN NO. 381 AND 382. PIPE BEDDING ON ALL HDPE SHALL BE 3" MINUS CLEAN ROCK AND SHALL EXTEND TO 1' ABOVE THE TOP OF PIPE.
 - INSTALL MANHOLE PIPE DROP PER DETAIL SS-4 ON SHEET 702.
 - 4' PRECAST STORM DRAIN MANHOLE PER APWA PLAN NO. 341 ON SHEET 701 WITH SOLID LID PER APWA PLAN NO. 302.
 - INSTALL 8" SANITARY SEWER LINE PER DETAIL SS-1 SHEET 701.
 - INSTALL 4' WATERWAY PER APWA PLAN NO. 211 ON SHEET 705.
 - INSTALL WATERWAY TRANSITION STRUCTURE PER APWA PLAN NO. 213 ON SHEET 705.



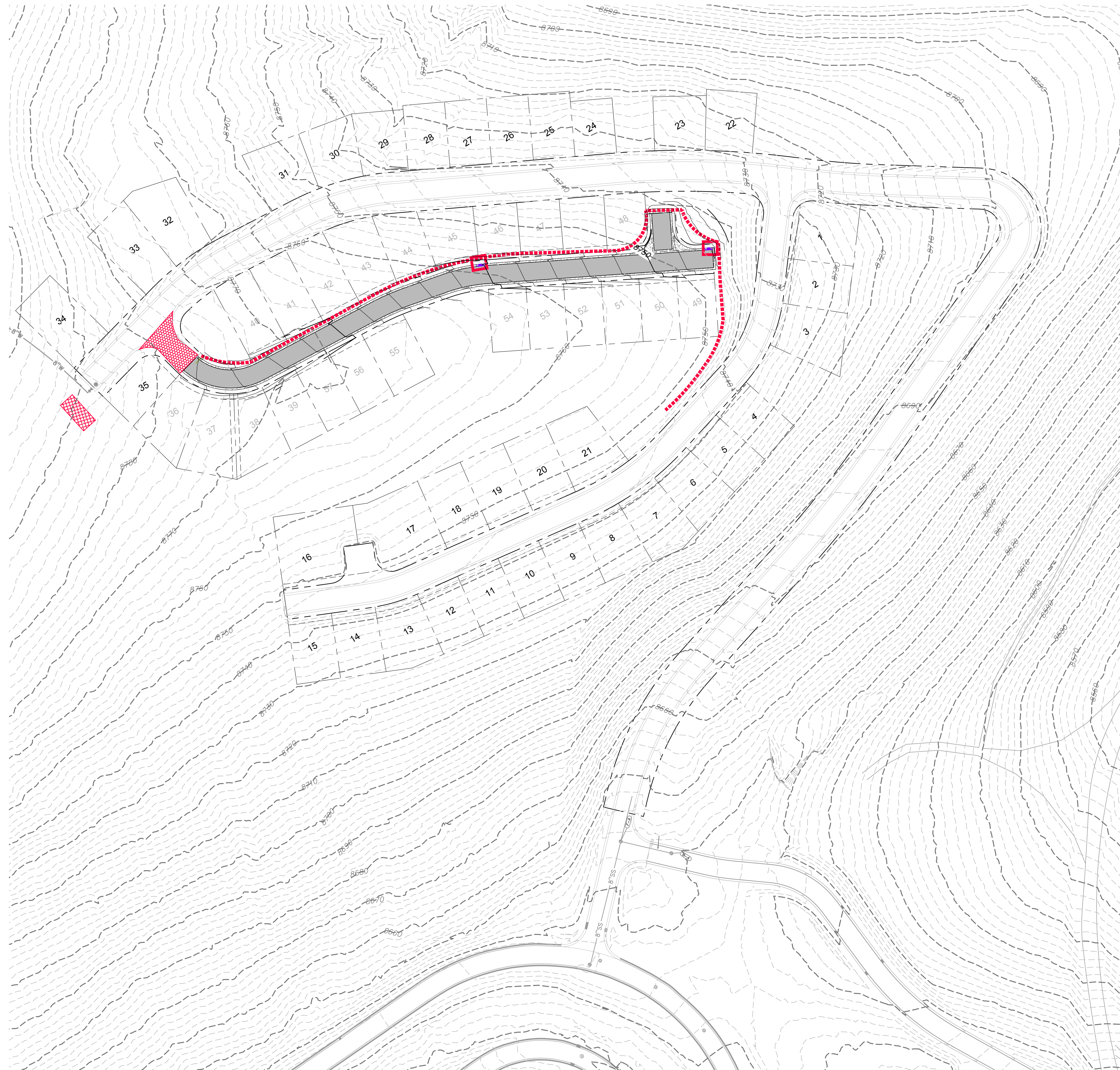
1588 SOUTH MAIN STREET
SUITE 200
SALT LAKE CITY, UT 84115
801.743.1300

NO.	DATE	BY	REVISIONS
1	05/13/2022	APP	UPDATE TO 2021 FINISH STANDARDS
2	06/17/2022	APP	REV. REVIEW COMMENTS, ENTRY ADD

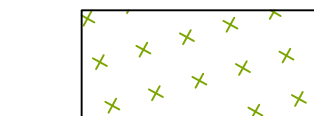
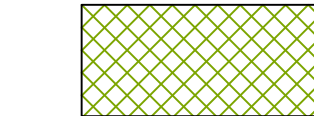
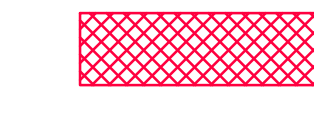


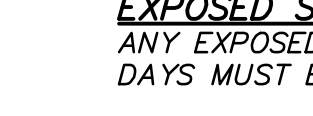
OVERLOOK PH3 AT POWDER MTN
PLAN AND PROFILE
COBABE COURT STA: 15+00 - 18+16
DATE SUBMITTED: 10/8/2019
TCC JOB NUMBER: 18-20.23



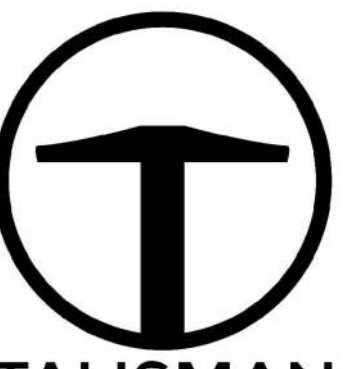
SHEET NUMBER
507
10 OF 19



LEGEND

-  HATCHING INDICATES AREAS LESS THAN 3:1 SLOPE TO BE SEEDDED FOR REVEGETATION.
-  HATCHING INDICATES SLOPES 3:1 OR STEEPER TO BE SEEDDED 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 EARTH BERM 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



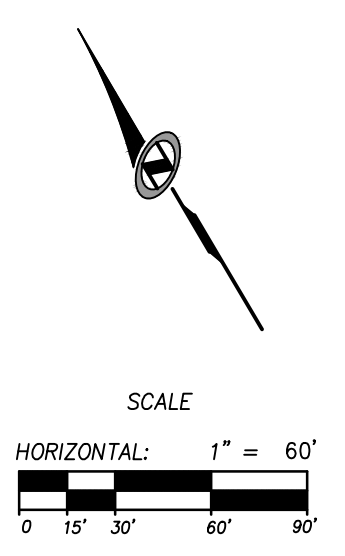
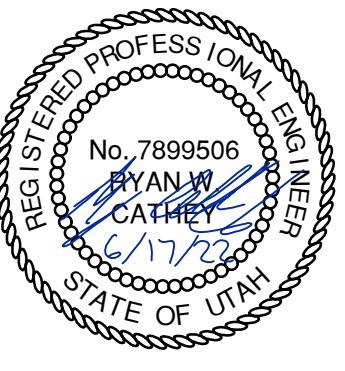
TALISMAN
CIVIL CONSULTANTS
1588 SOUTH MAIN STREET
SUITE 200
SALT LAKE CITY, UT 84115
801.743.1300

NO.	DATE	BY	REVISIONS
1	05/17/2022	APP	UPDATE TO 2021 TOWN OF STANDARDS
2	06/17/2022	APP	REV 1 REVIEW COMMENTS, ENTRY ADD

OVERLOOK PH3 AT POWDER MTN
EROSION CONTROL PLAN

DATE SUBMITTED: 10/8/2019

TCC JOB NUMBER: 18-20.23



SHEET NUMBER
600
11 OF 19

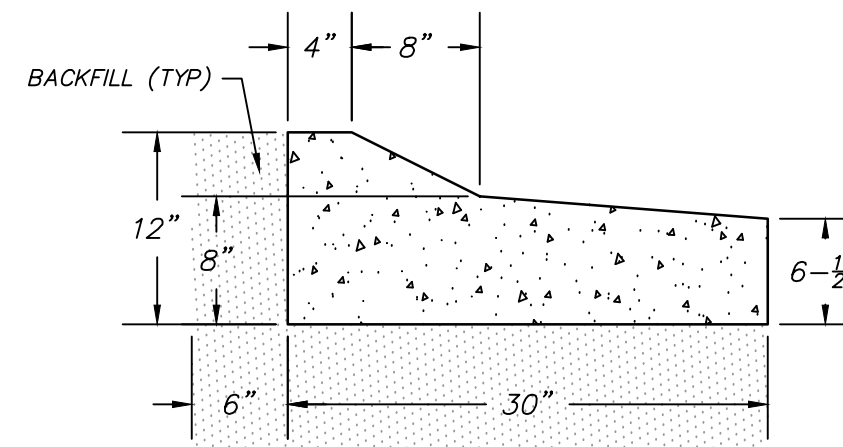


Waterway

- GENERAL**
 - Variance from specified dimensions and slopes must be acceptable to the ENGINEER. System configuration may be changed at ENGINEER'S discretion.
 - Unless indicated otherwise, width of waterway as follows.
 - 4 feet for a residential street.
 - 6 feet for a non-residential street.
 - If wider than 6 feet, offset the flow line in the waterway to match (line up with) the curb and gutter flow line. Adjust cross slopes to match existing slopes.
- 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.
 - Reinforcement: Galvanized or epoxy coated, deformed, 60 ksi yield grade steel, ASTM A615.
 - 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. 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.

Curb and gutter

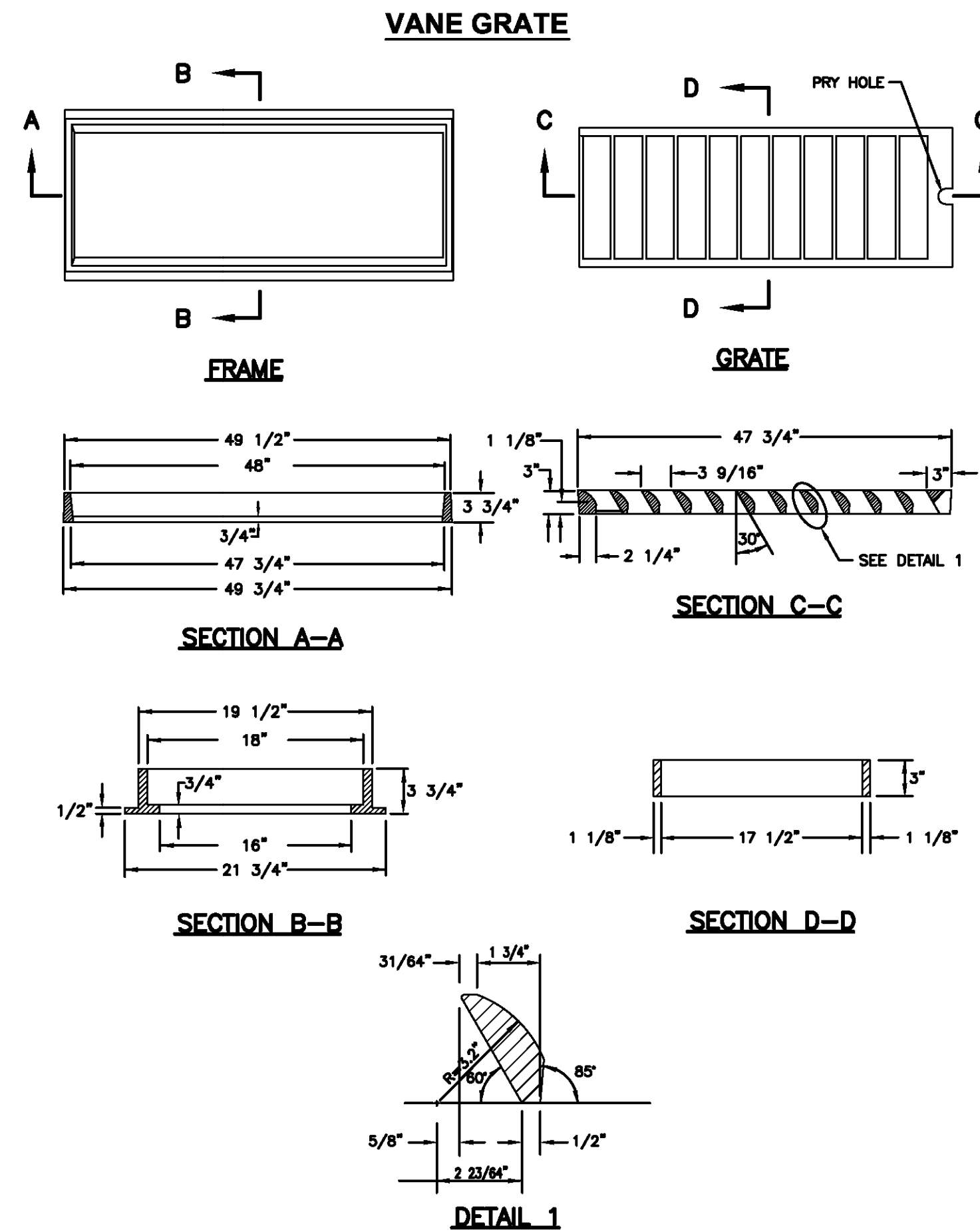
- GENERAL**
 - Variance from specified dimensions and slopes must be acceptable to the ENGINEER. System configuration may be changed at ENGINEER'S discretion.
 - Additional requirements are specified in APWA Section 32 16 13.
- PRODUCTS**
 - Base Course: Untreated base course, APWA Section 32 11 23.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

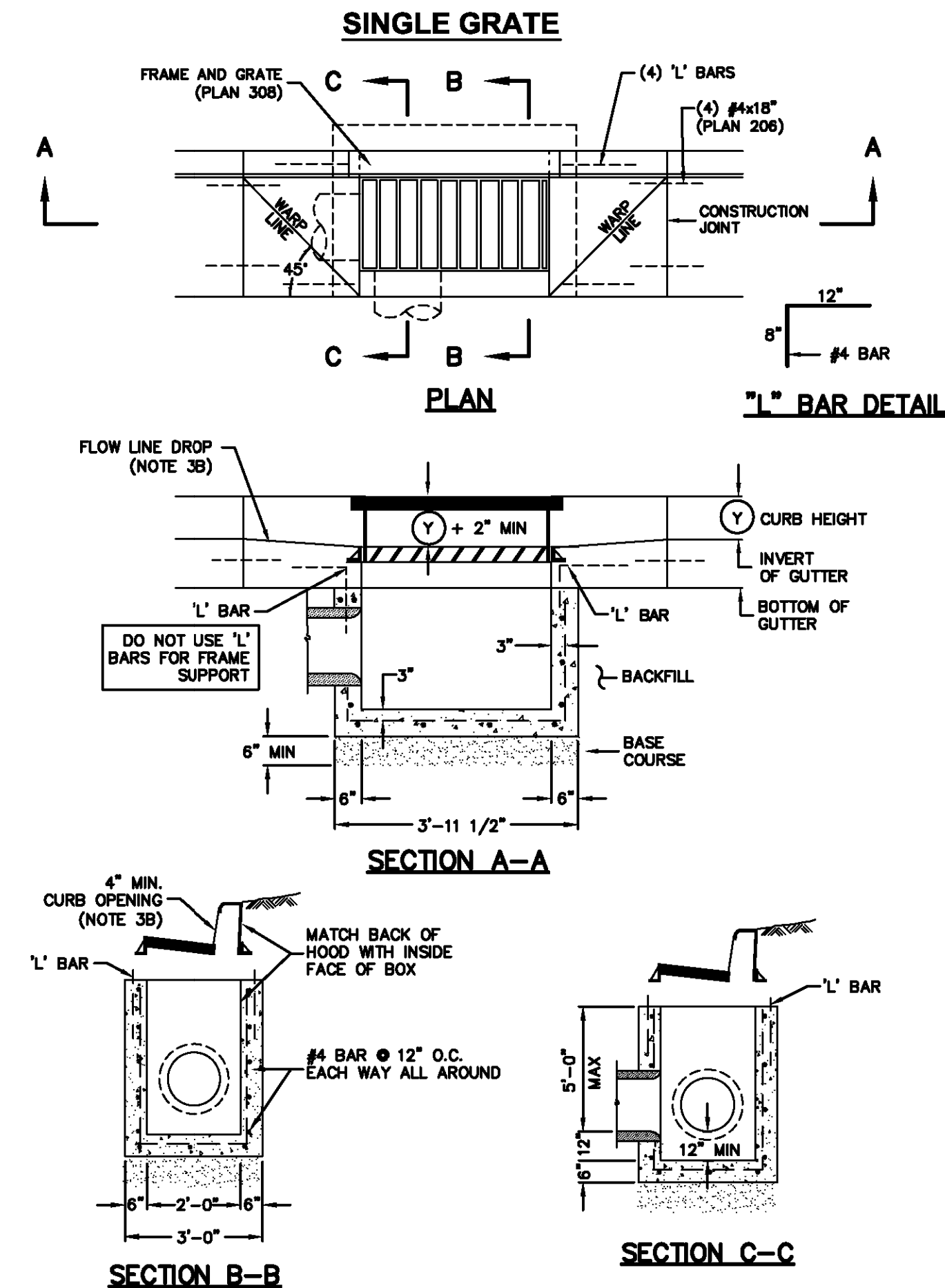


47 3/4" Grate and frame

149

Catch basin

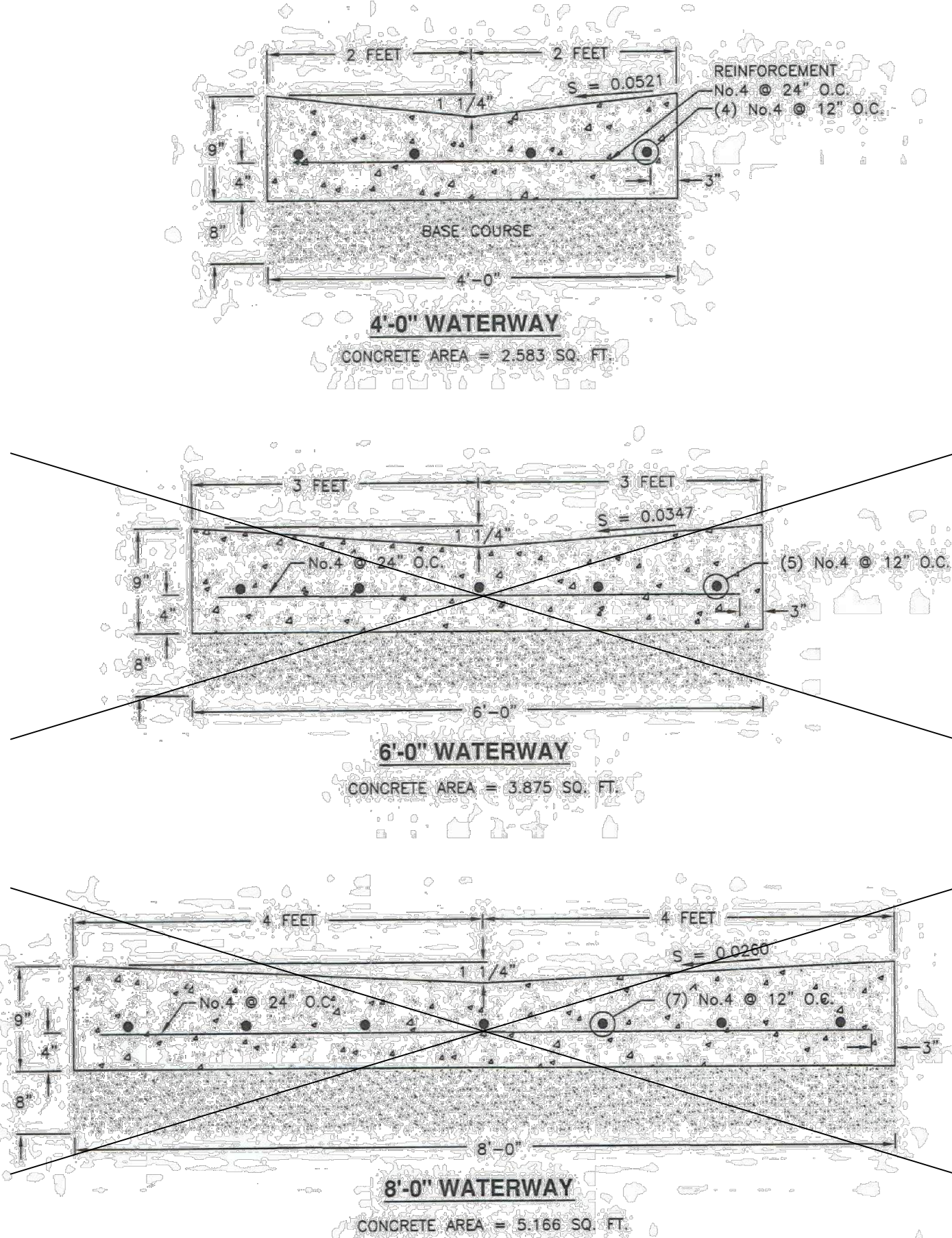
- GENERAL**
 - The drawing shows typical pipe connections. Refer to construction drawings for connection locations or refer to field location of existing piping when engineering pipe connection to the box.
- PRODUCTS**
 - Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel as 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.



Catch basin

155

211

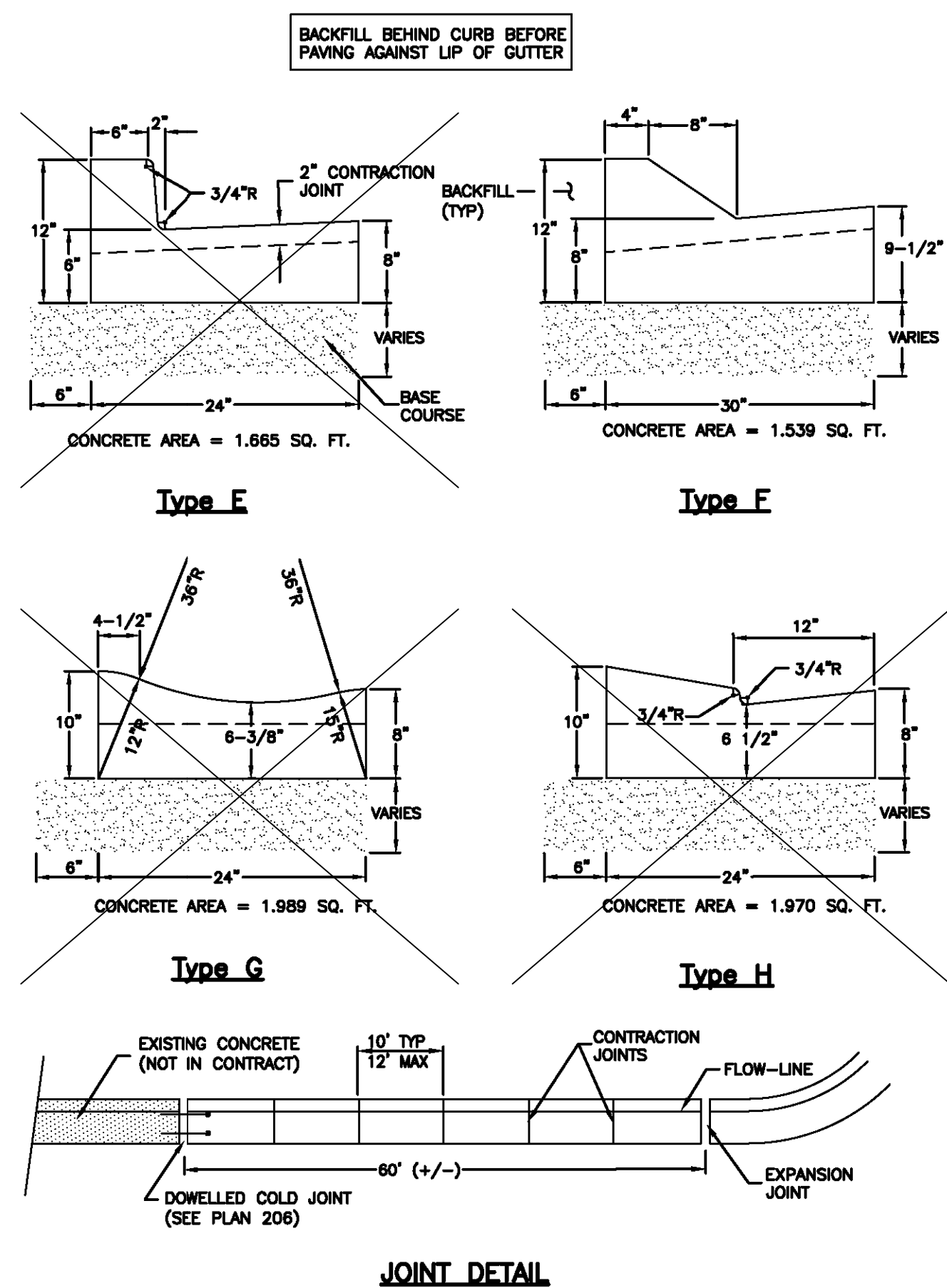


Waterway

211

July 2011

28

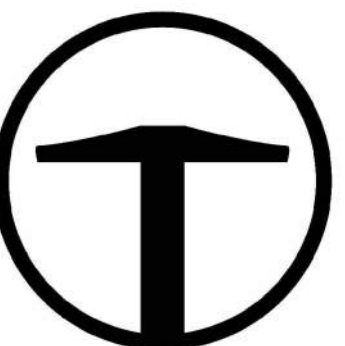


Curb and gutter

29

Plan 205

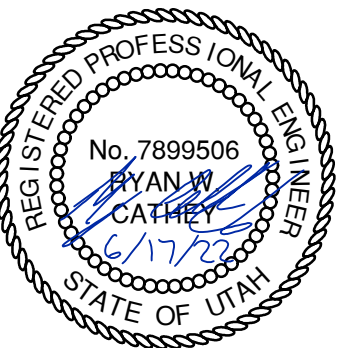
Sheet 2 of 3 June 2006



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801.743.1300

NO.	BY	DATE	REVISIONS
1	APP	05/17/2022	UPDATE TO 2021 TYPED STANDARDS
2	APP	05/17/2022	REV 1 REVIEW COMMENTS, ENTRY ADD

OVERLOOK PH3 AT POWDER MTN DETAILS



DATE SUBMITTED: 10/8/2019
TCC JOB NUMBER: 18-20.23

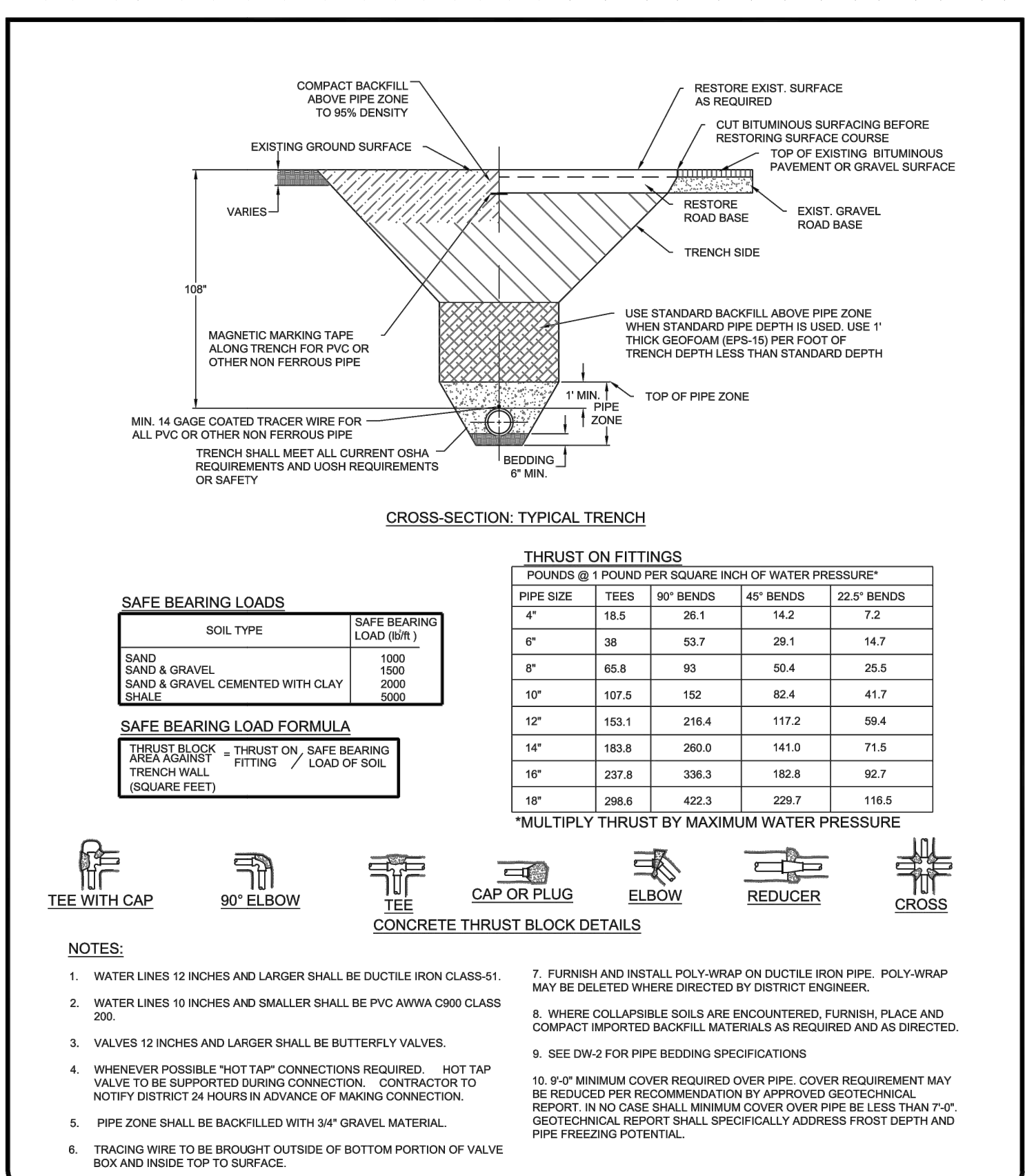
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700
12 OF 19



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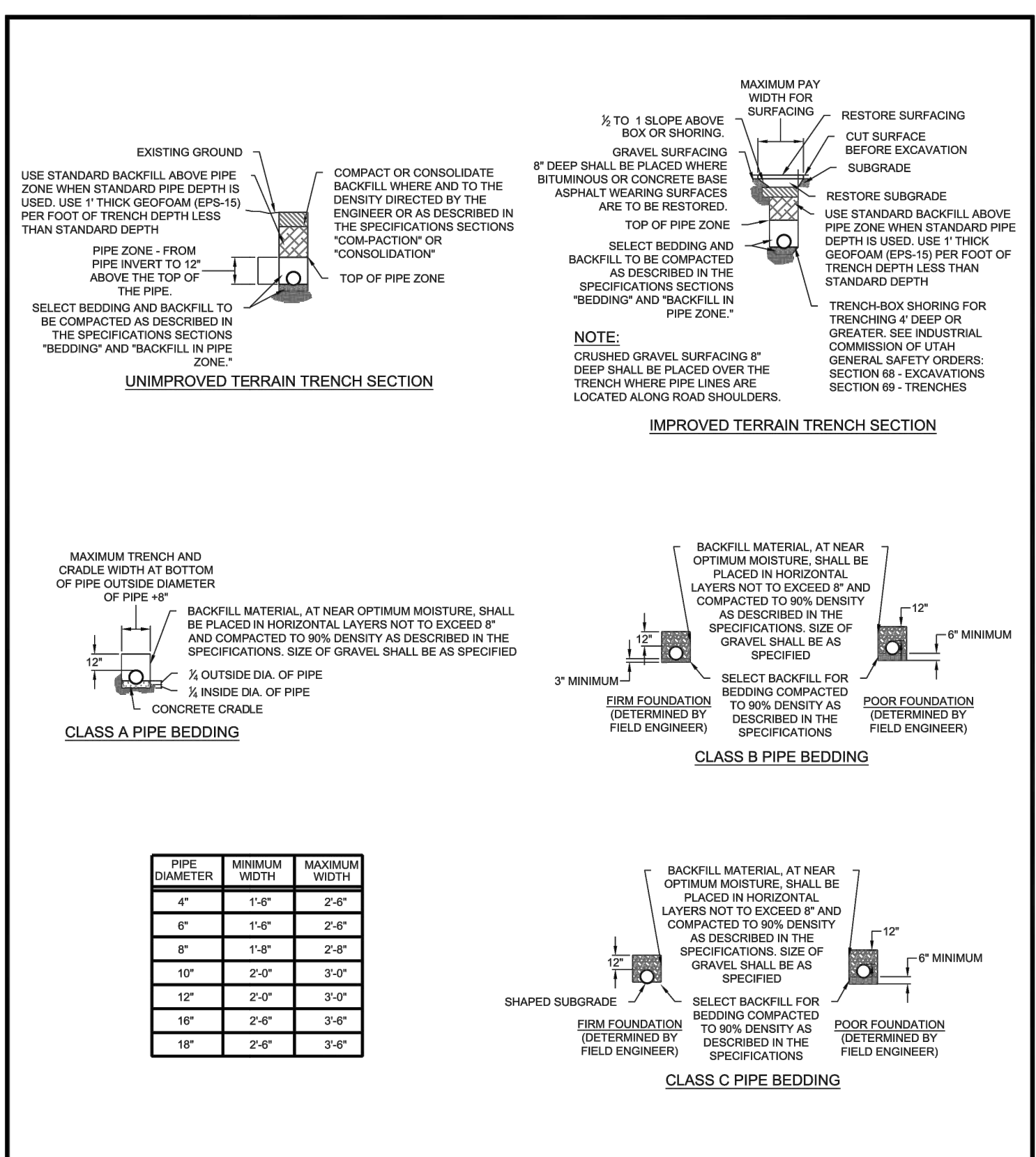


WATERLINE TRENCH DETAIL

DATE: APRIL 2021
DRAWING NAME: DW-1
DRAWN BY: BPI/M
CHECKED BY: APPROVED

GILSON ENGINEERING
Consulting Engineers & Surveyors
1241 SOUTH 400 EAST BUILDING C, UNIT 2, SALT LAKE CITY, UT 84108
PHONE: (801) 571-8414 FAX: (801) 571-8449

POWDER MOUNTAIN WATER AND SEWER IMPROVEMENT DISTRICT
258 24th STREET, SUITE 150, OGDEN, UT 84401
PHONE: (801) 773-1191

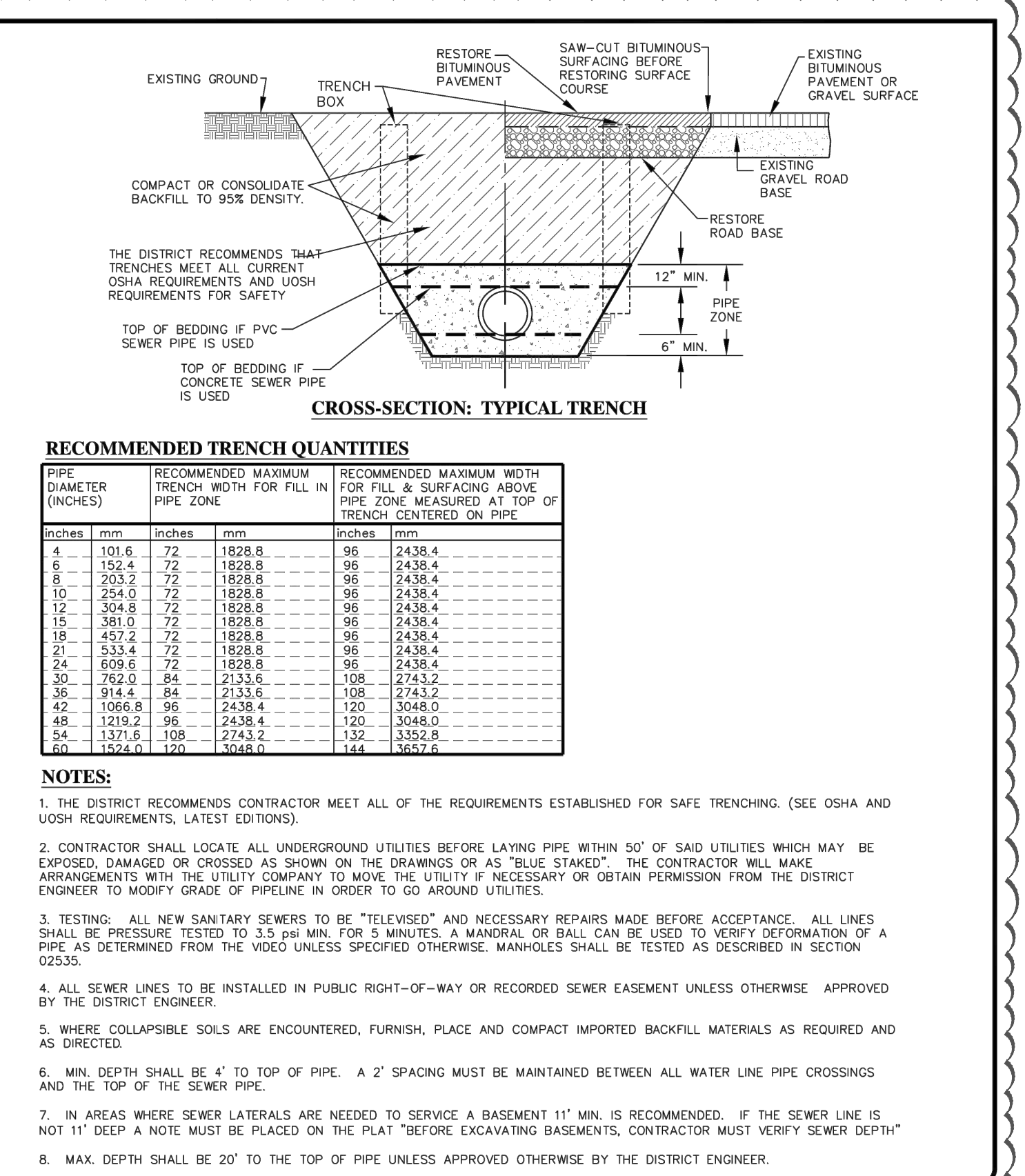


PIPE BEDDING SPECIFICATIONS

DATE: APRIL 2021
DRAWING NAME: DW-2
DRAWN BY: BPI/JM
CHECKED BY: APPROVED

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PHONE: (801) 773-1191



STANDARD SEWER TRENCH

DATE: APRIL 2021
DRAWING NAME: DW-3
DRAWN BY: BPI/M
CHECKED BY: APPROVED

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PHONE: (801) 571-8414 FAX: (801) 571-8449

POWDER MOUNTAIN WATER AND SEWER IMPROVEMENT DISTRICT
258 24th STREET, SUITE 150, OGDEN, UT 84401
PHONE: (801) 773-1191

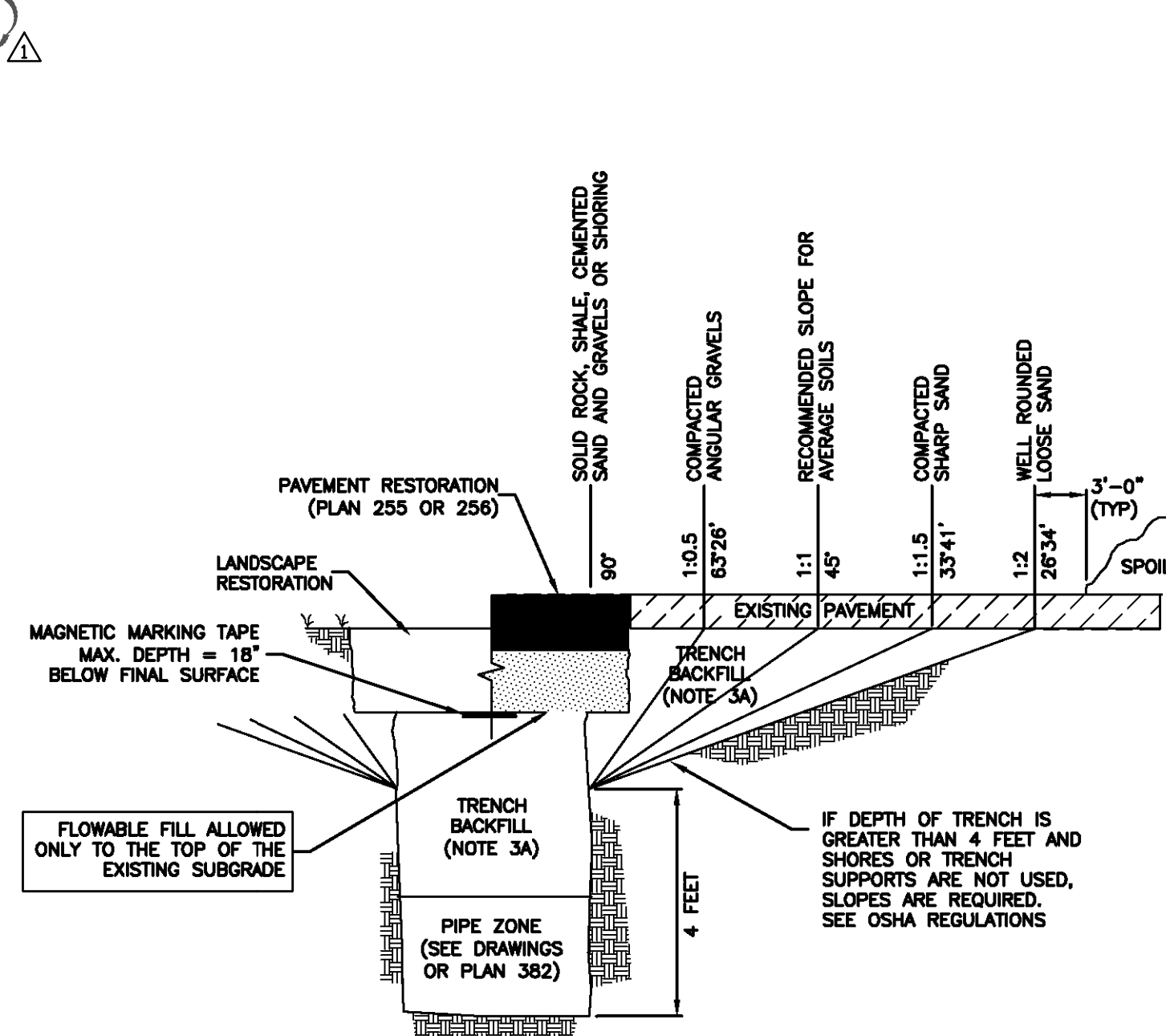
Trench backfill

- GENERAL**
 - The drawing applies to backfilling the trench above the pipe zone.
- PRODUCTS**
 - Backfill: Common fill, APWA Section 31 05 13. Maximum particle size 3-inches.
 - 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**
 - Trench Backfill:
 - DO NOT USE sewer rock, pea gravel, or recycled RAP aggregate as trench backfill.
 - 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.
 - Water jetting is NOT allowed.
 - 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.
 - Flowable Fill: When required, place controlled low strength material in the trench, APWA Section 31 05 15. Cure the fill before placing surface restorations.
 - Surface Restoration:
 - Landscape 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.
 - 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).

Pipe zone backfill

- GENERAL**
 - 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**
 - 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 $\frac{3}{4}$ " for plastic pipe.
 - Concrete: APWA Section 03 30 04.
 - 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.
 - Stabilization-Separation Geotextile: Moderate or high at CONTRACTOR'S choice, APWA Section 31 05 19.
- EXECUTION**
 - 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.
 - 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.
 - Base Course:
 - Furnish untreated base course material unless specified otherwise by pipe manufacturer.
 - 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.
 - When using concrete, provide at least Class 2,000 per 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.
 - 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.
 - 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.
 - Flowable Fill (when required and if allowed by pipe manufacturer):
 - Place the controlled low strength material, APWA Section 31 05 15.
 - Prevent pipe flotation by installing in lifts and providing pipe restraints as required by pipe manufacturer.
 - Reset pipe to line and grade if pipe "floats" out of position.

202



Trench backfill

DATE: JANUARY 2011
DRAWING NAME: DW-4
DRAWN BY: BPI/JM
CHECKED BY: APPROVED

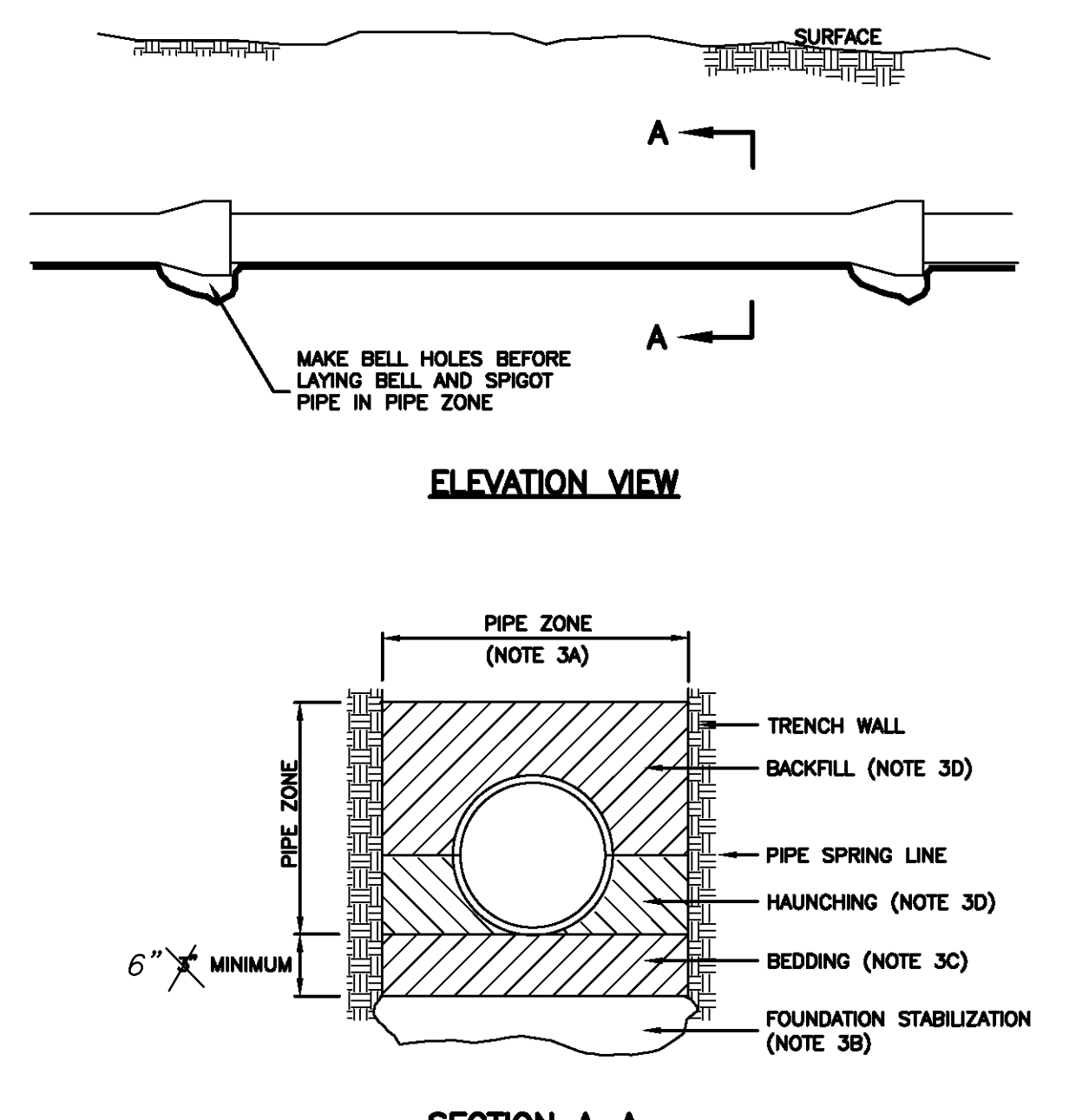
GILSON ENGINEERING
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1241 SOUTH 400 EAST BUILDING C, UNIT 2, SALT LAKE CITY, UT 84108
PHONE: (801) 571-8414 FAX: (801) 571-8449

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258 24th STREET, SUITE 150, OGDEN, UT 84401
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Plan 381

203

204



Pipe zone backfill

DATE: JANUARY 2011
DRAWING NAME: DW-5
DRAWN BY: BPI/JM
CHECKED BY: APPROVED

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258 24th STREET, SUITE 150, OGDEN, UT 84401
PHONE: (801) 773-1191

INSTALLATION

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

PVC AND HDPE 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-WAKE CORRUGATED STEEL PIPE FOR SEWERS AND OTHER APPLICATIONS.

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

Plan 382

205

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1588 SOUTH MAIN STREET SUITE 200
SALT LAKE CITY, UT 84116
801.743.1300

NO.	DATE	REVISIONS
1	05/17/2022	UPDATE TO 2021 TRENCH STANDARDS
2	05/17/2022	REV I REVIEW COMMENTS, BERRY ADD

DATE SUBMITTED: 10/8/2019

OVERLOOK PH3 AT POWDER MTN DETAILS

TCC JOB NUMBER: 18-20.23

REG. LISTED PROFESSIONAL ENGINEER
No. 7899506
RYAN W. CATHER
6/17/2021
STATE OF UTAH

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

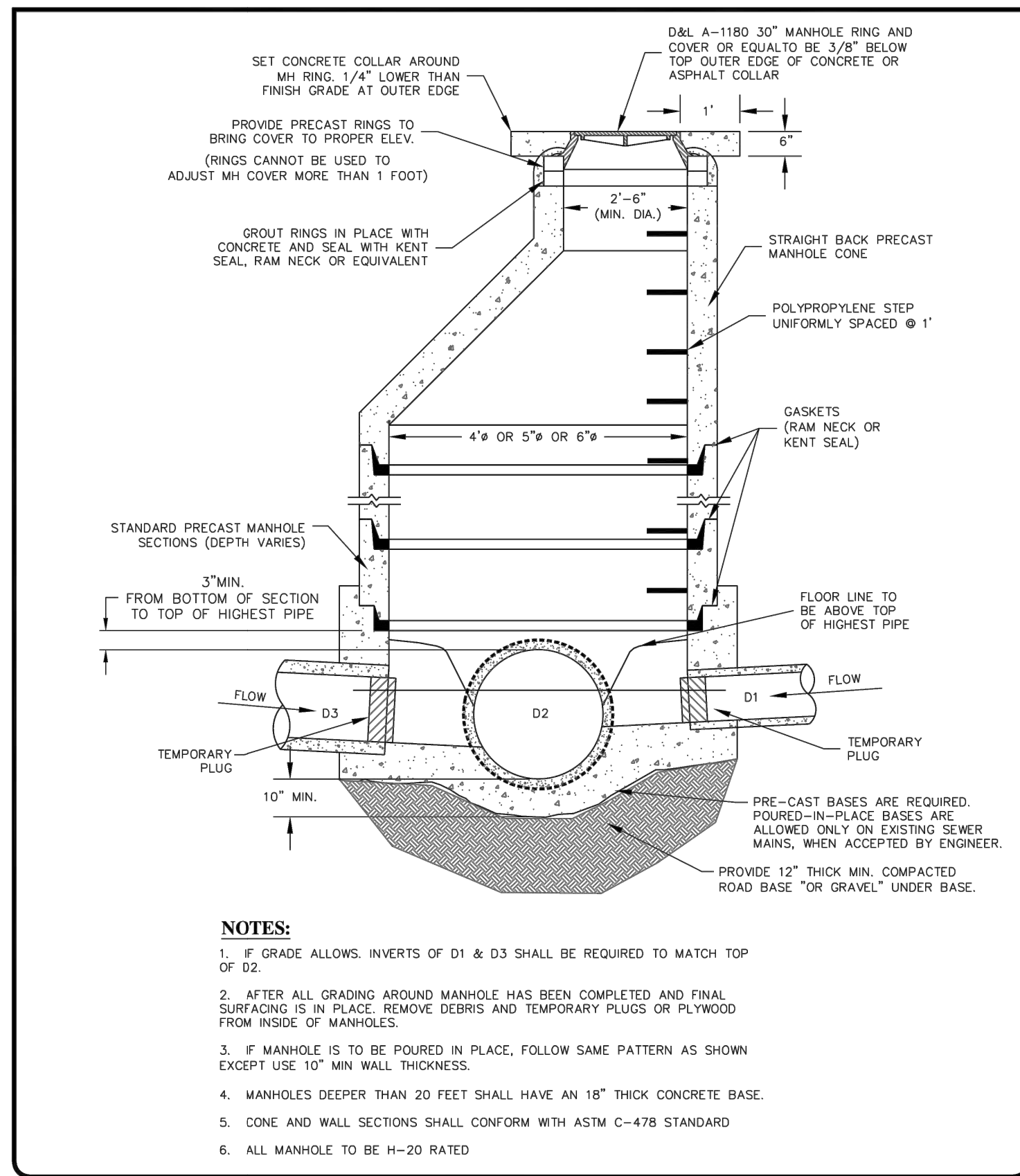
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CORRUGATED METAL PIPE: FOLLOW ASTM A 798
STANDARD PRACTICE FOR INSTALLING FACTORY-WAKE CORRUGATED STEEL PIPE FOR SEWERS AND OTHER APPLICATIONS.

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

811
CALL IT BEFORE YOU DIG
SAFER DIGGING PRACTICES

SHEET NUMBER
701
13 OF 19

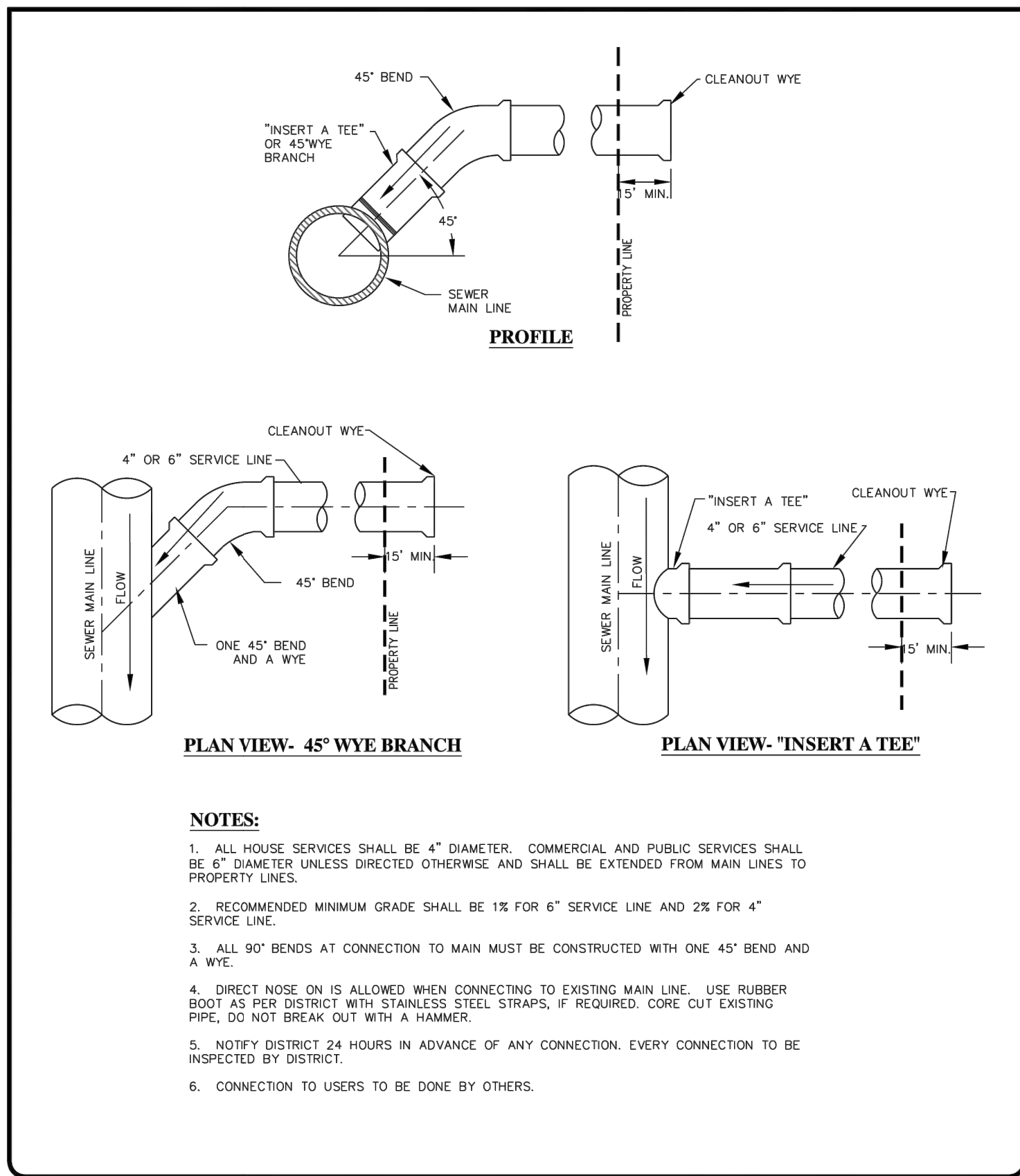


SANITARY SEWER MANHOLE

DATE: APRIL 2021
DRAWING NAME: SS-2
DRAWN BY: BPFJM
CHECKED: APPROVED

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1240 SOUTH 400 EAST BLDG. C, UNIT 2, DRAPER, UT 84020
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288 24th STREET, SUITE 150, OGDEN, UT 84403
PHONE: (801) 773-1191
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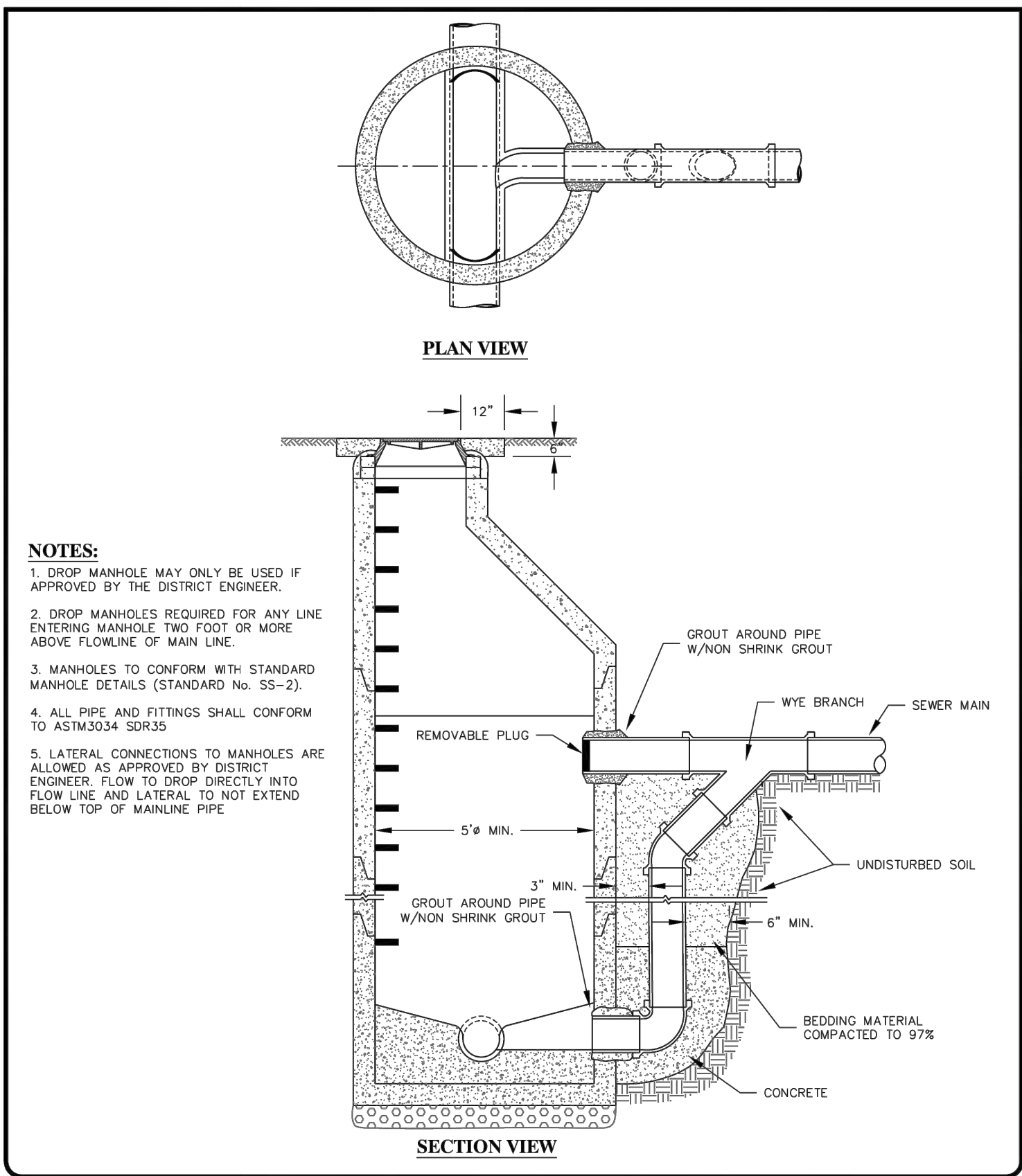


SEWER SERVICE CONNECTION

DATE: APRIL 2021
DRAWING NAME: SS-3
DRAWN BY: BPFJM
CHECKED: APPROVED

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PHONE: (801) 773-1191
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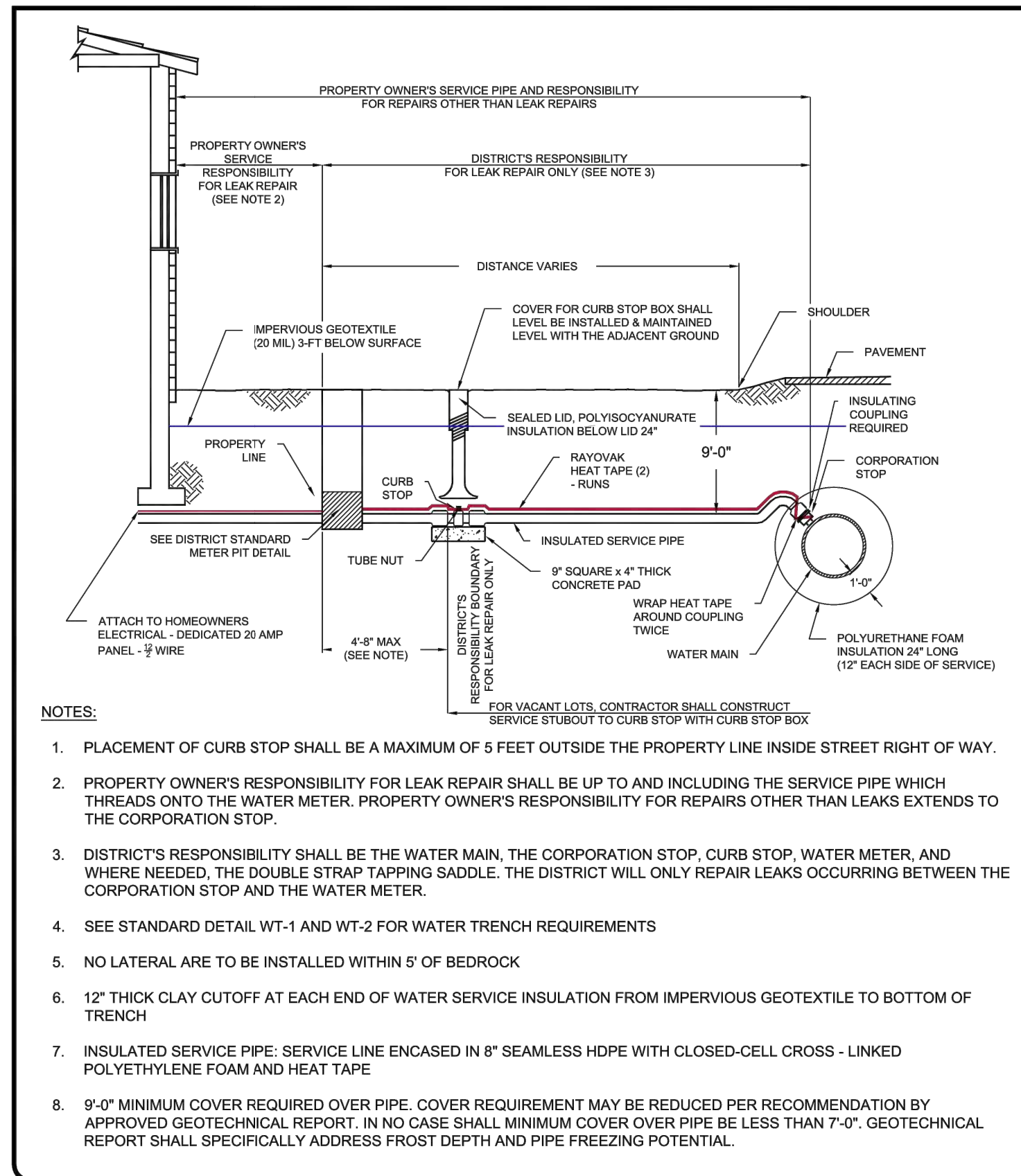


OUTSIDE DROP MANHOLE

DATE: APRIL 2021
DRAWING NAME: SS-4
DRAWN BY: BPFJM
CHECKED: APPROVED

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PHONE: (801) 571-9414 FAX: (801) 571-9449
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288 24th STREET, SUITE 150, OGDEN, UT 84403
PHONE: (801) 773-1191
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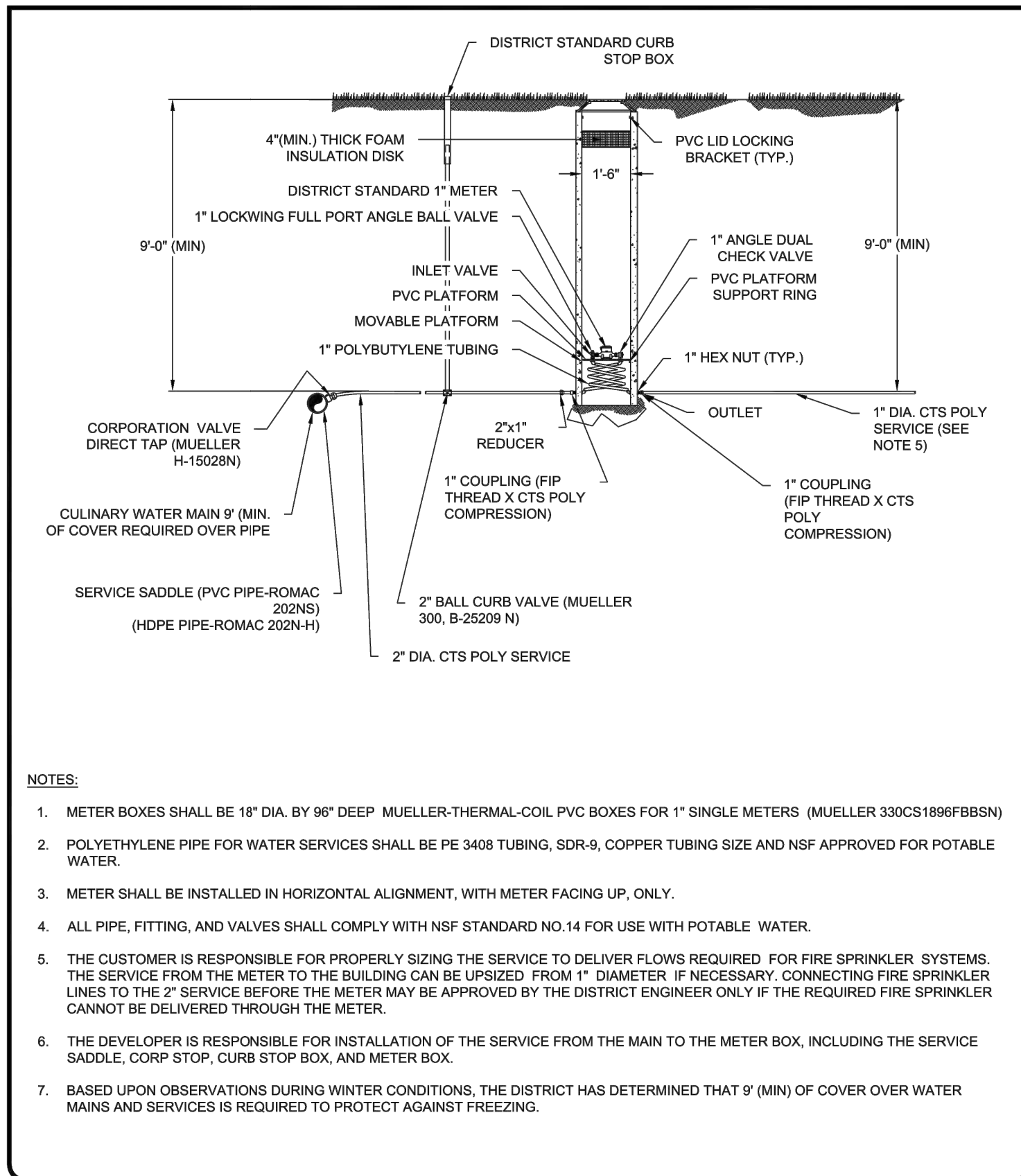


TYPICAL SMALL DIAMETER WATER SERVICE LINE DETAIL

DATE: APRIL 2021
DRAWING NAME: DW-5
DRAWN BY: BPFJM
CHECKED: APPROVED

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Consulting Engineers & Surveyors
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PHONE: (801) 571-9414 FAX: (801) 571-9449
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288 24th STREET, SUITE 150, OGDEN, UT 84403
PHONE: (801) 773-1191
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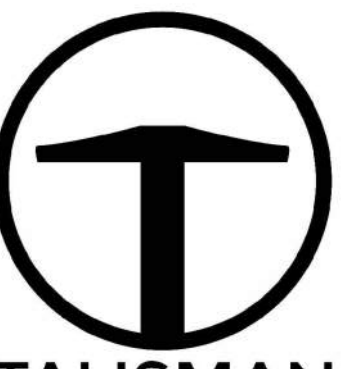


TYPICAL METER PIT DETAIL

DATE: APRIL 2021
DRAWING NAME: DW-7
DRAWN BY: BPFJM
CHECKED: APPROVED

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Consulting Engineers & Surveyors
1240 SOUTH 400 EAST BLDG. C, UNIT 2, DRAPER, UT 84020
PHONE: (801) 571-9414 FAX: (801) 571-9449
WWW.POWERMOUNTAINUTAH.COM

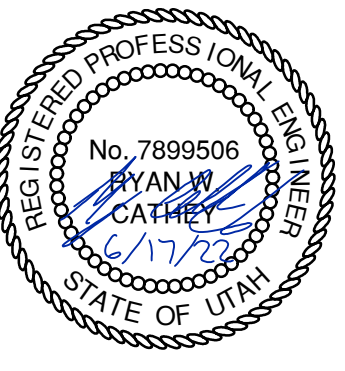
POWDER MOUNTAIN WATER AND SEWER IMPROVEMENT DISTRICT
288 24th STREET, SUITE 150, OGDEN, UT 84403
PHONE: (801) 773-1191
WWW.PMWDISTRICT.UTAH.GOV



1588 SOUTH MAIN STREET SUITE 200 SALT LAKE CITY, UT 84115 801.743.1300

NO.	DATE	BY	REVISIONS
1	05/17/2022	JRP	UPDATE TO 2021 FINISHED STANDARDS
2	05/17/2022	JRP	REV 1 REVIEW COMMENTS, ENTRY ADD

OVERLOOK PH3 AT POWDER MTN DETAILS



DATE SUBMITTED: 10/8/2019
TCC JOB NUMBER: 18-20.23

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.

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.

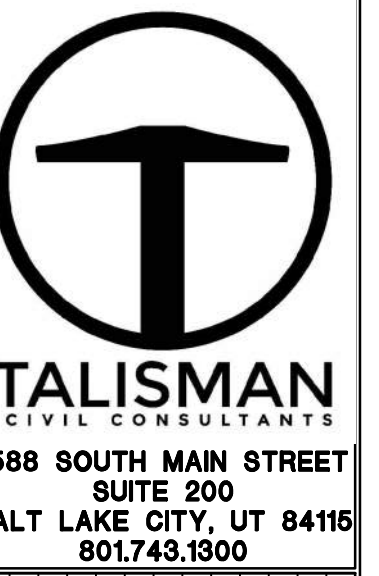
4" washout valve

- 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.

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.

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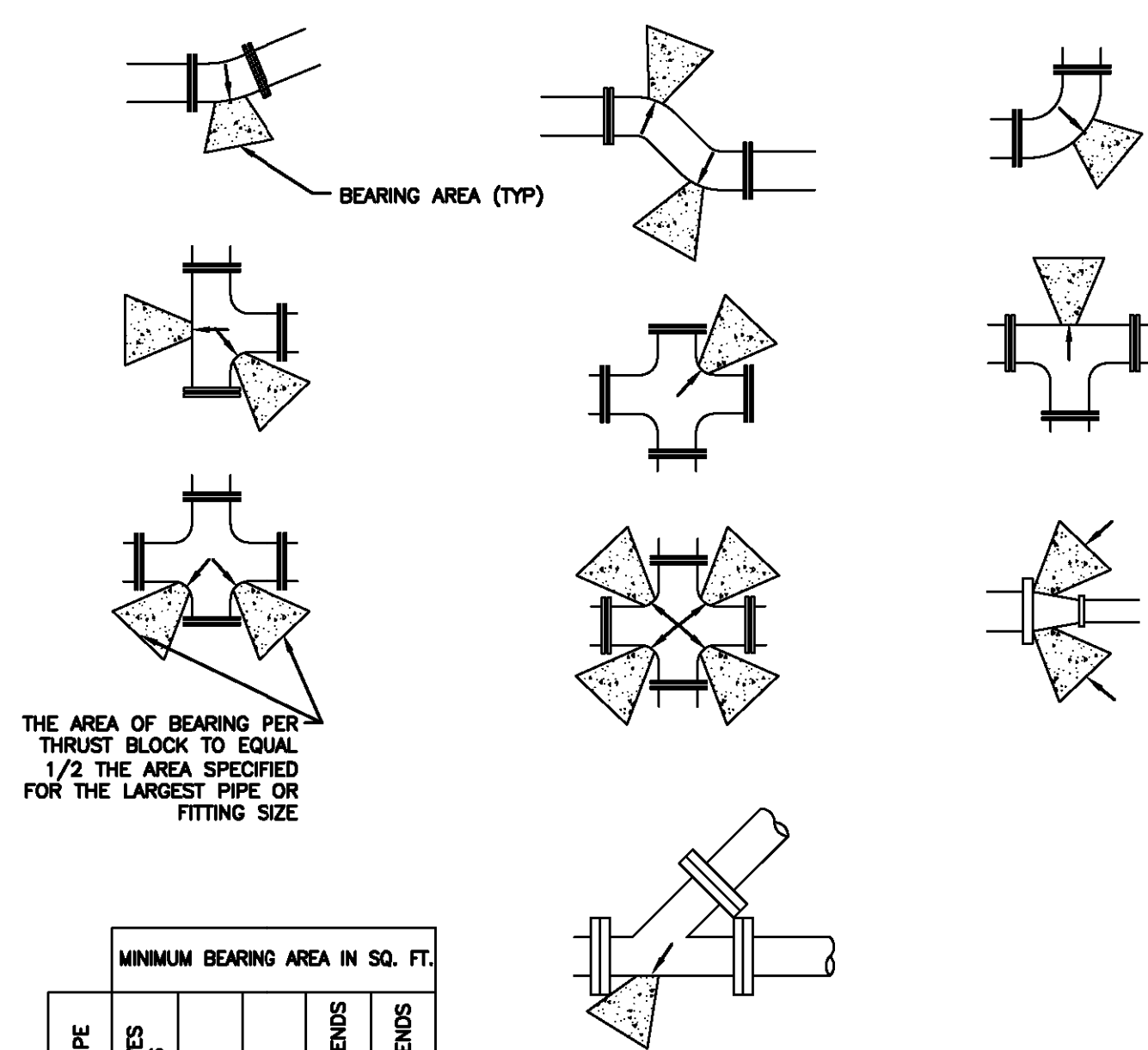
NO.	BY	DATE	REVISIONS
1	JRP	05/17/2022	UPDATE TO 2021 TRENCH STANDARDS
2	JRP	06/17/2022	REV 1 REVIEW COMMENTS, ENTRY ADD

OVERLOOK PH3 AT POWDER MTN DETAILS

DATE SUBMITTED: 10/8/2019

TCC JOB NUMBER: 18-20.23

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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	16

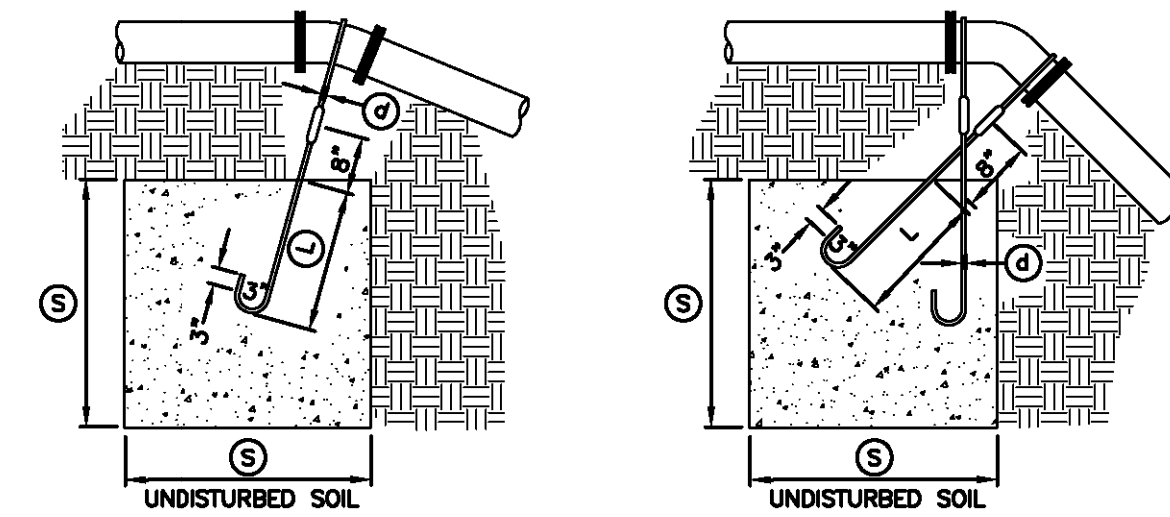
Direct bearing thrust block

Plan 561

August 2010

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

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

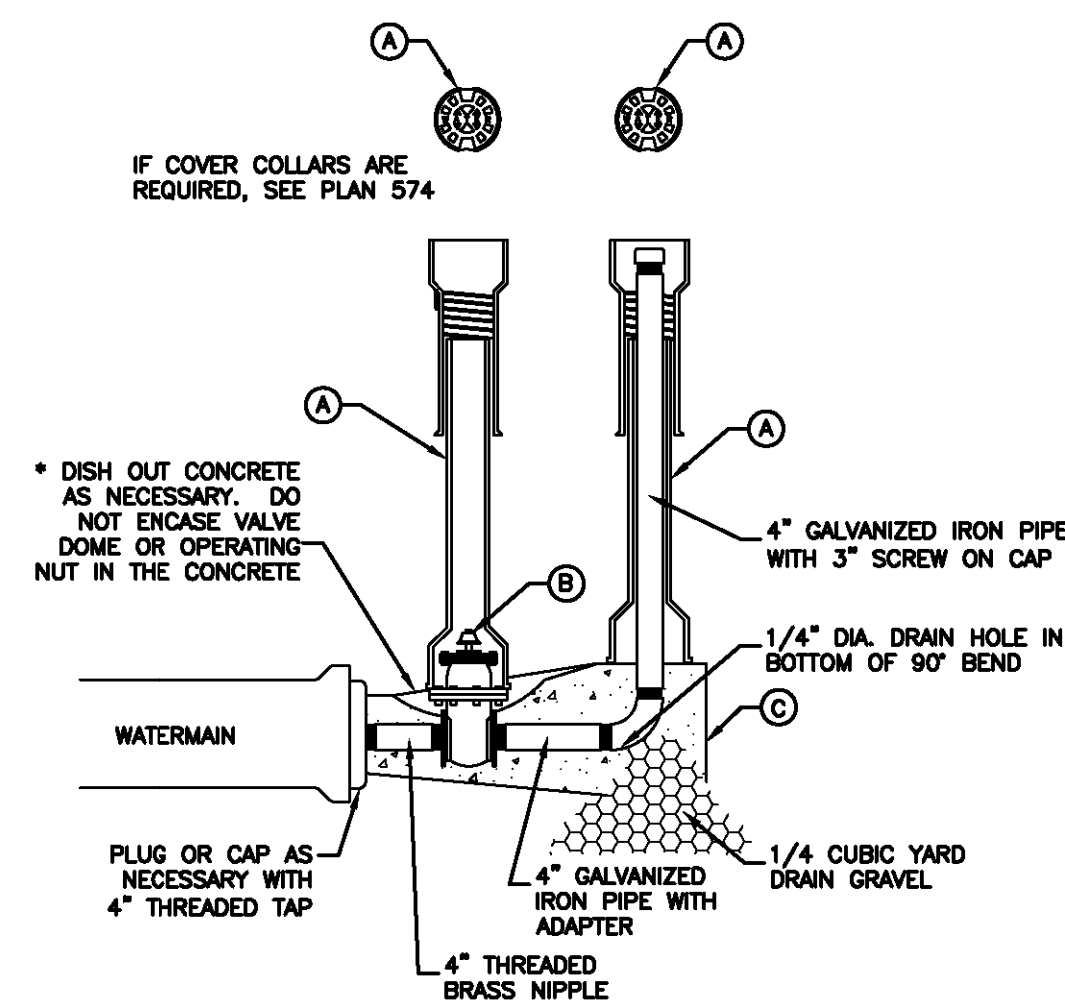
Tie-down thrust restraints

Plan 562

April 1997

269

270



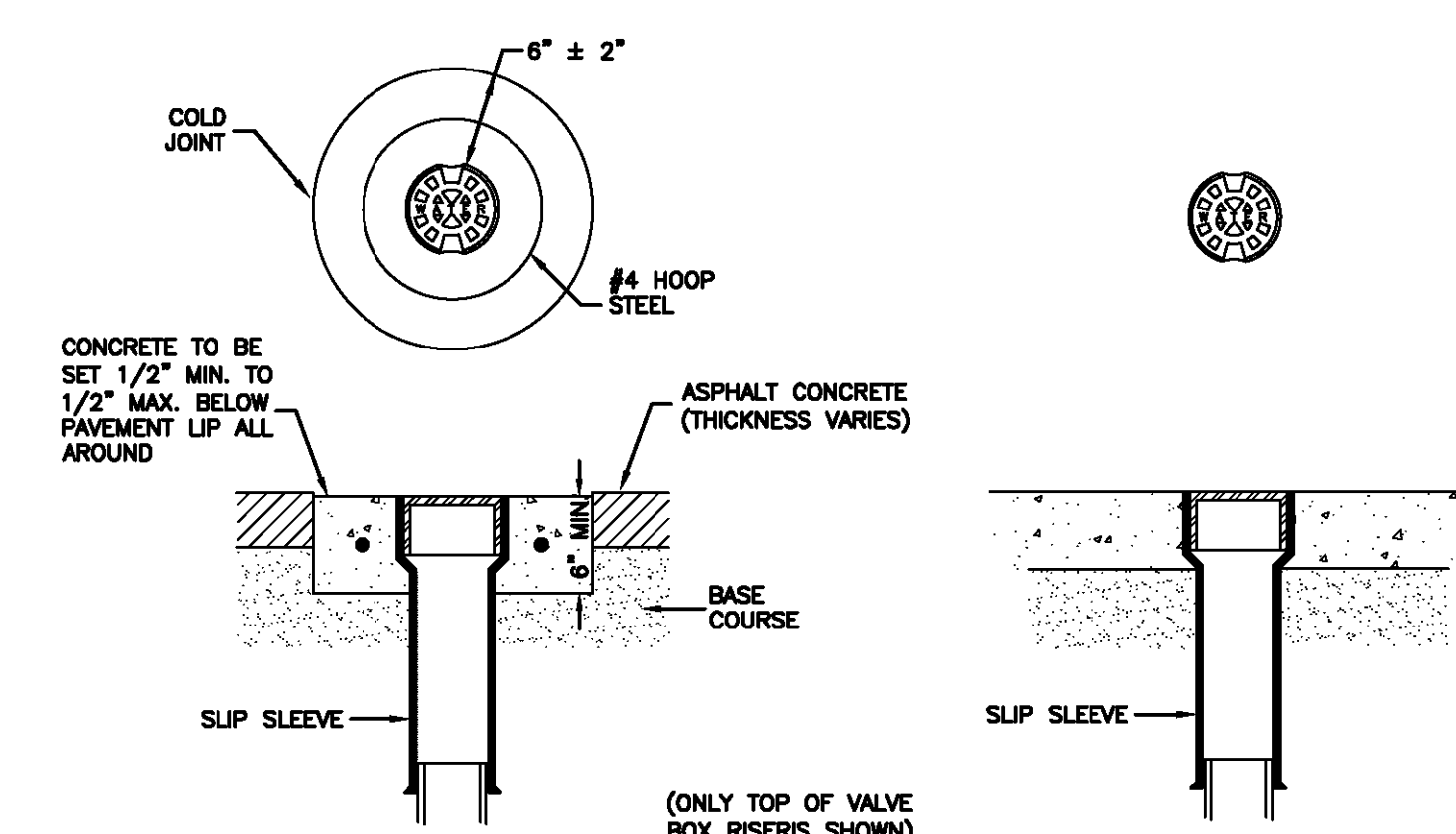
No.	ITEM	DESCRIPTION
(A)	VALVE BOX WITH LID	2 PIECE CAST IRON
(B)	4" GATE VALVE WITH SCREW ENDS	2" x 2" OPERATING NUT
(C)	CONCRETE THRUST BLOCK	PLAN 561

4" Washout valve

February 2011

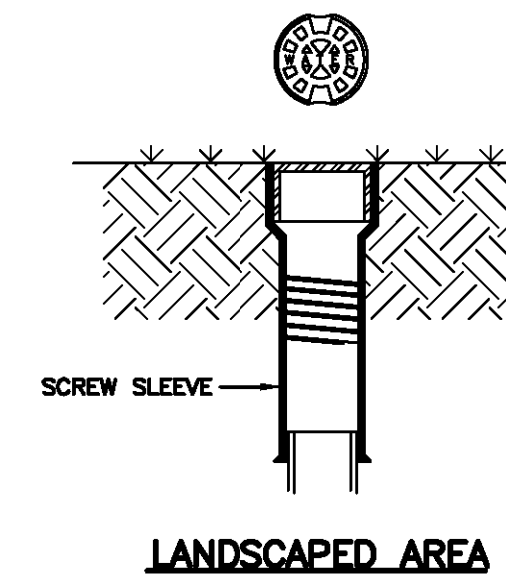
271

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ASPHALT CONCRETE

CONCRETE PAVEMENT



LANDSCAPED AREA

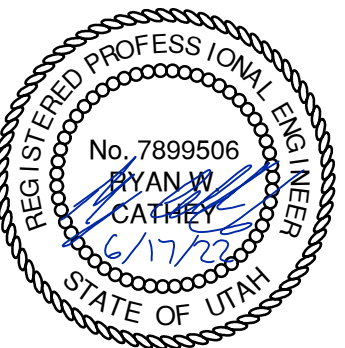
Plan 571

August 2010

277

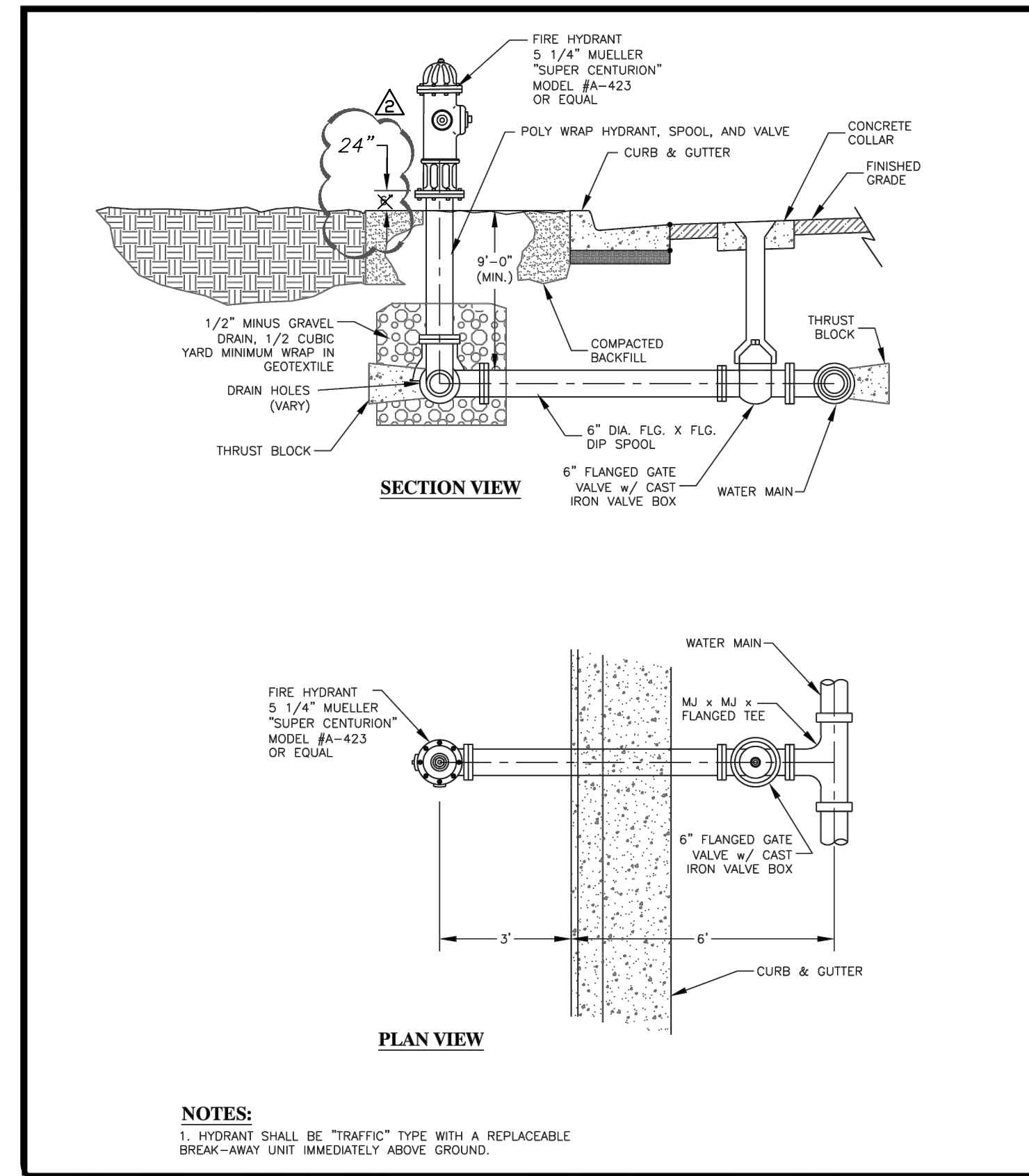
Cover collar for water valve box

Plan 574



SHEET NUMBER 703

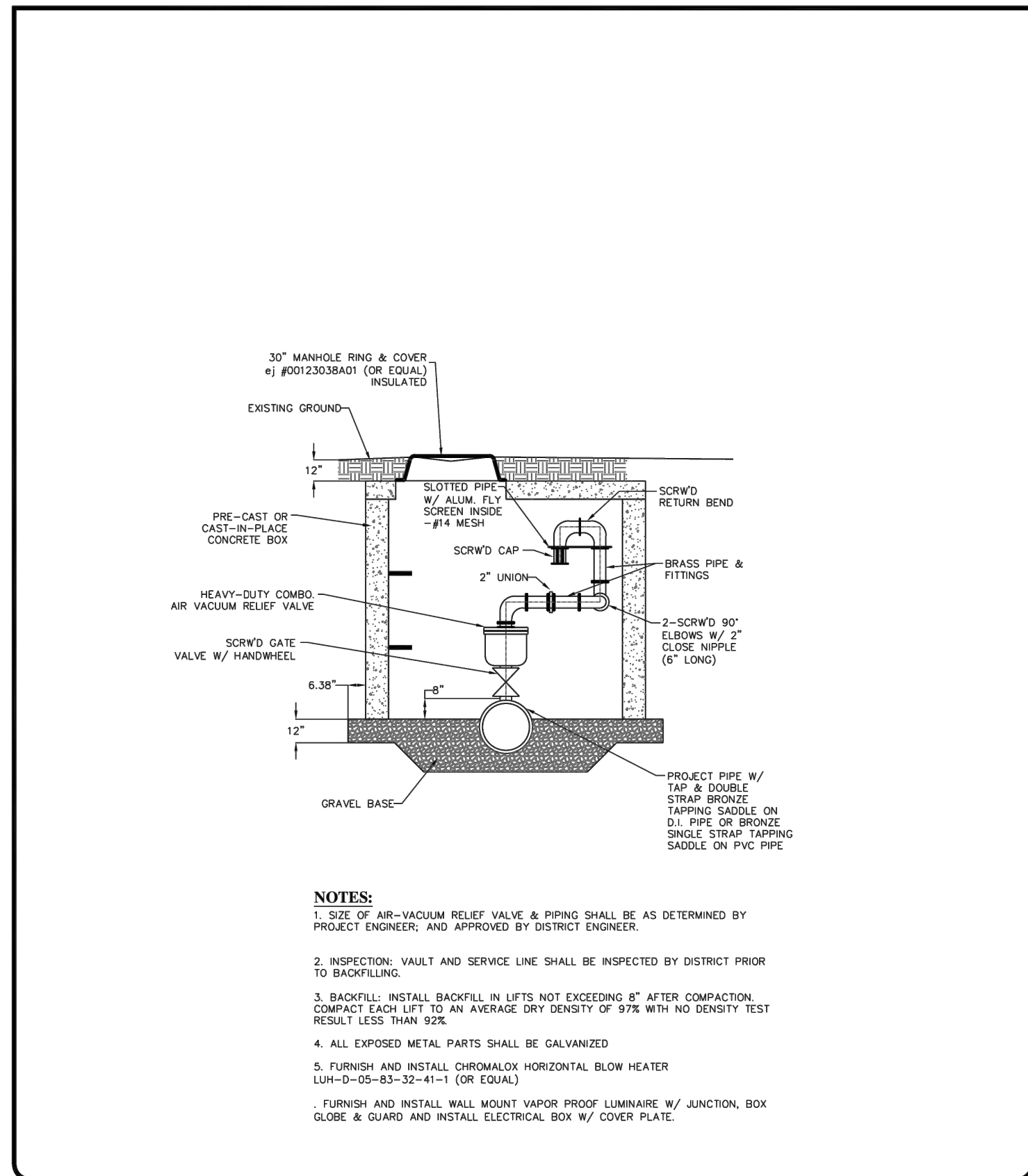
15 OF 19



NOTES:
 1. HYDRANT SHALL BE "TRAFFIC" TYPE WITH A REPLACEABLE BREAK-AWAY UNIT IMMEDIATELY ABOVE GROUND.

FIRE HYDRANT CONNECTION

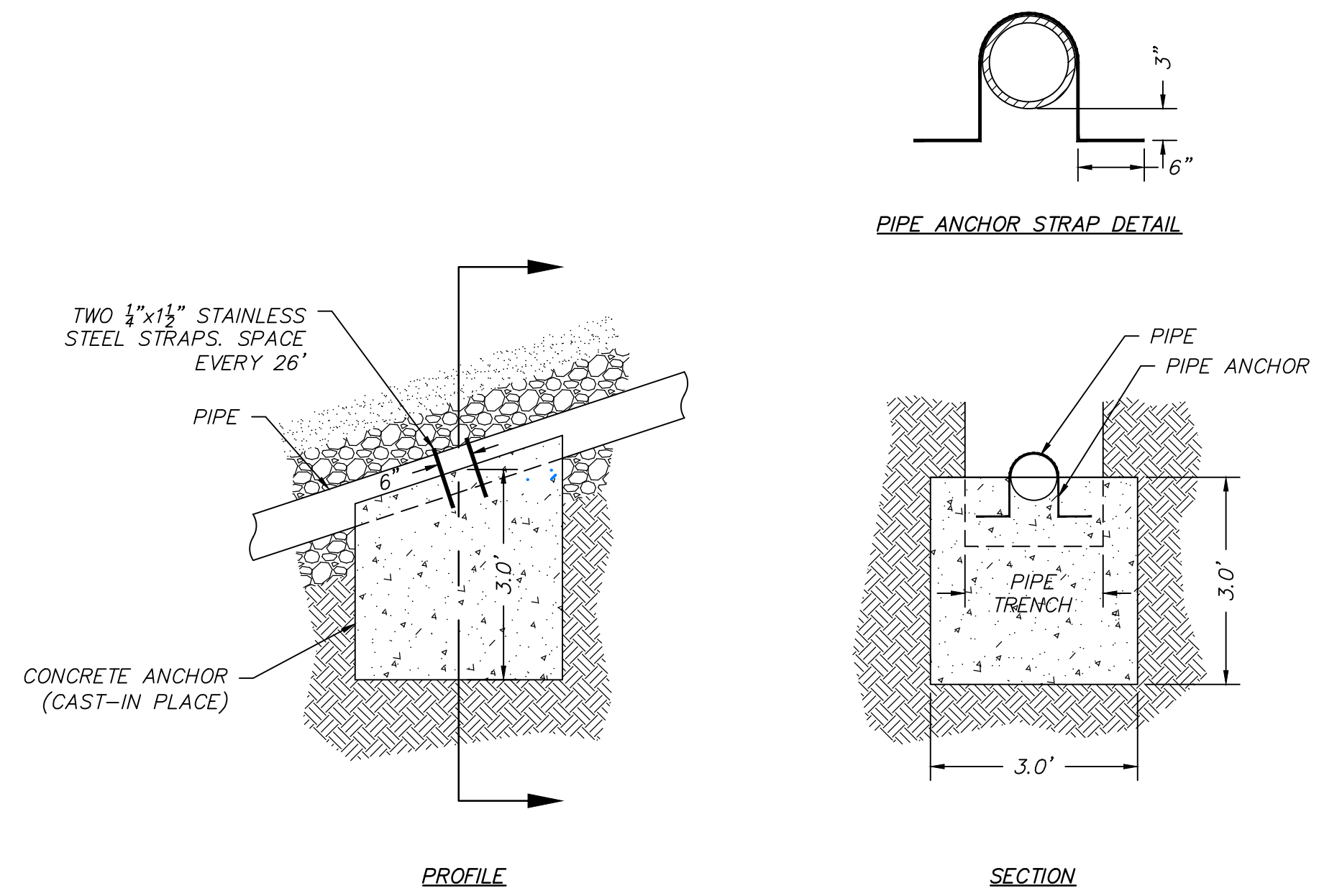
DATE: APRIL 2021	<p>GILSON ENGINEERING Consulting Engineers & Surveyors 1240 SOUTH 450 EAST BUILDING C, UNIT 2, DRAPER, UT 84020 PHONE: (801) 571-9414 FAX: (801) 571-9419</p>	<p>POWDER MOUNTAIN WATER AND SEWER IMPROVEMENT DISTRICT 208 24th STREET, SUITE 100, OGDEN, UT 84401 PHONE: (801) 773-1191 WWW.PMWD.UT</p>
DRAWING NAME: DW-3		
DRAWN BY: BPJM		
CHECKED: APPROVED:		



NOTES:
 1. SIZE OF AIR-VACUUM RELIEF VALVE & PIPING SHALL BE AS DETERMINED BY PROJECT ENGINEER, AND APPROVED BY DISTRICT ENGINEER.
 2. INSPECTION: VAULT AND SERVICE LINE SHALL BE INSPECTED BY DISTRICT PRIOR TO BACKFILLING.
 3. BACKFILL: INSTALL BACKFILL IN LIFTS NOT EXCEEDING 8' AFTER COMPACTION. COMPACT EACH LIFT TO AN AVERAGE DRY DENSITY OF 97% WITH NO DENSITY TEST RESULT LESS THAN 95%.
 4. ALL EXPOSED METAL PARTS SHALL BE GALVANIZED.
 5. FURNISH AND INSTALL CHROMALOX HORIZONTAL BLOW HEATER LUH-D-05-83-32-41-1 (OR EQUAL).
 6. FURNISH AND INSTALL WALL MOUNT VAPOR PROOF LUMINAIRE W/ JUNCTION, BOX CLOSE & GUARD AND INSTALL ELECTRICAL BOX W/ COVER PLATE.

AIR VACUUM RELIEF VALVE

DATE: APRIL 2021	<p>GILSON ENGINEERING Consulting Engineers & Surveyors 1240 SOUTH 450 EAST BUILDING C, UNIT 2, DRAPER, UT 84020 PHONE: (801) 571-9414 FAX: (801) 571-9419</p>	<p>POWDER MOUNTAIN WATER AND SEWER IMPROVEMENT DISTRICT 208 24th STREET, SUITE 100, OGDEN, UT 84401 PHONE: (801) 773-1191 WWW.PMWD.UT</p>
DRAWING NAME: DW-4		
DRAWN BY: BPJM		
CHECKED: APPROVED:		



PIPE ANCHOR DETAIL
 SCALE: 1" = N.T.S.



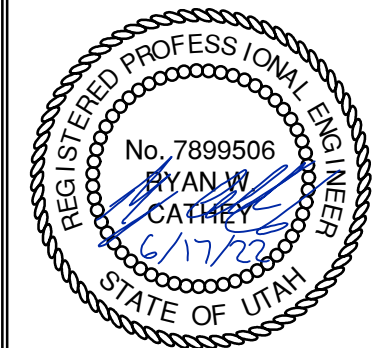
TALISMAN CIVIL CONSULTANTS
 1588 SOUTH MAIN STREET SUITE 200
 SALT LAKE CITY, UT 84116
 801.743.1300

NO.	BY	DATE	REVISIONS
1	APP	05/17/2022	UPDATE TO 2021 TOWN OF STANDARDS
2	APP	06/17/2022	REV. REVIEW COMMENTS, WRNY ADD

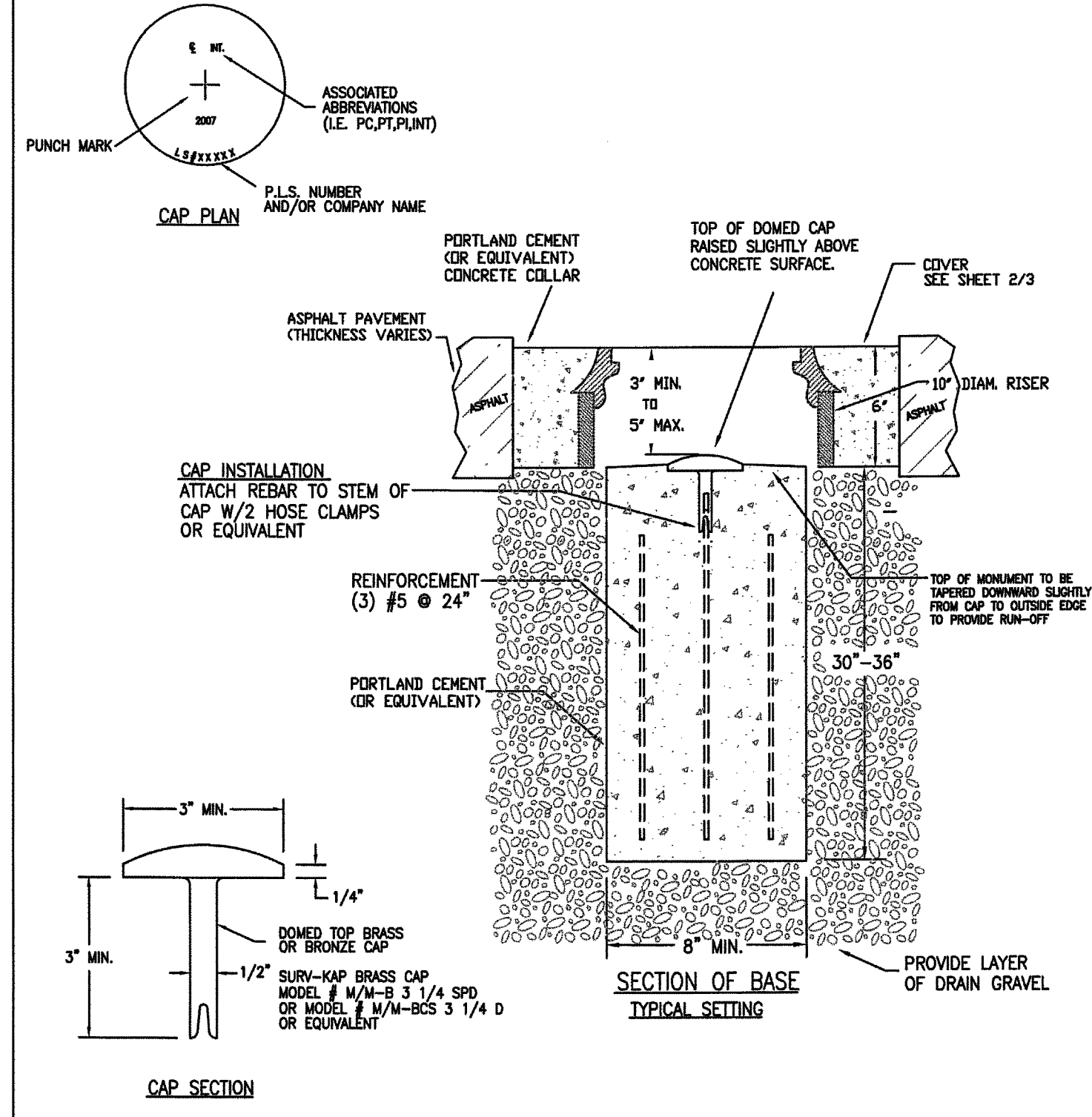
OVERLOOK PH3 AT POWDER MTN DETAILS

DATE SUBMITTED: 10/8/2019

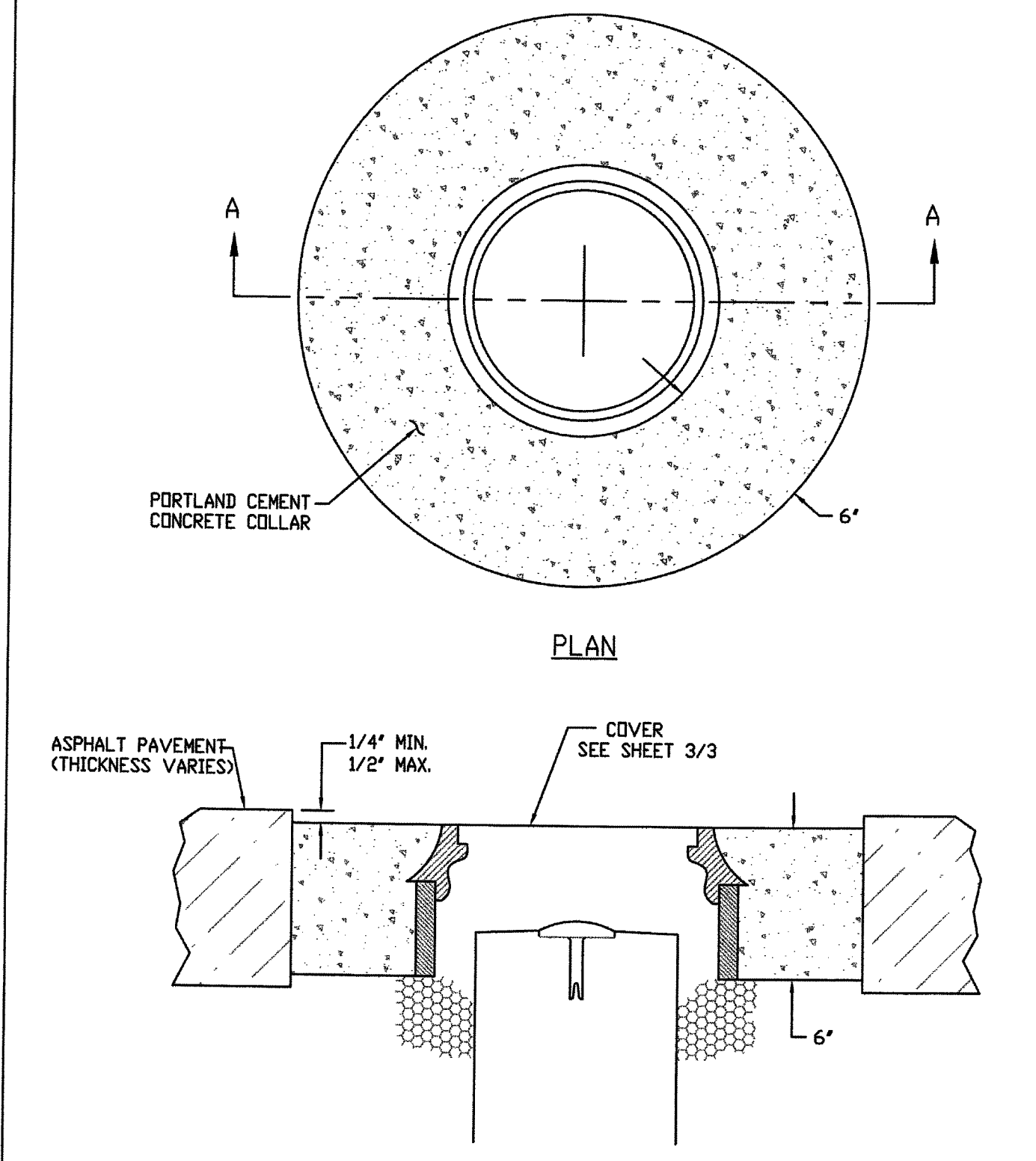
TCC JOB NUMBER: 18-20.23



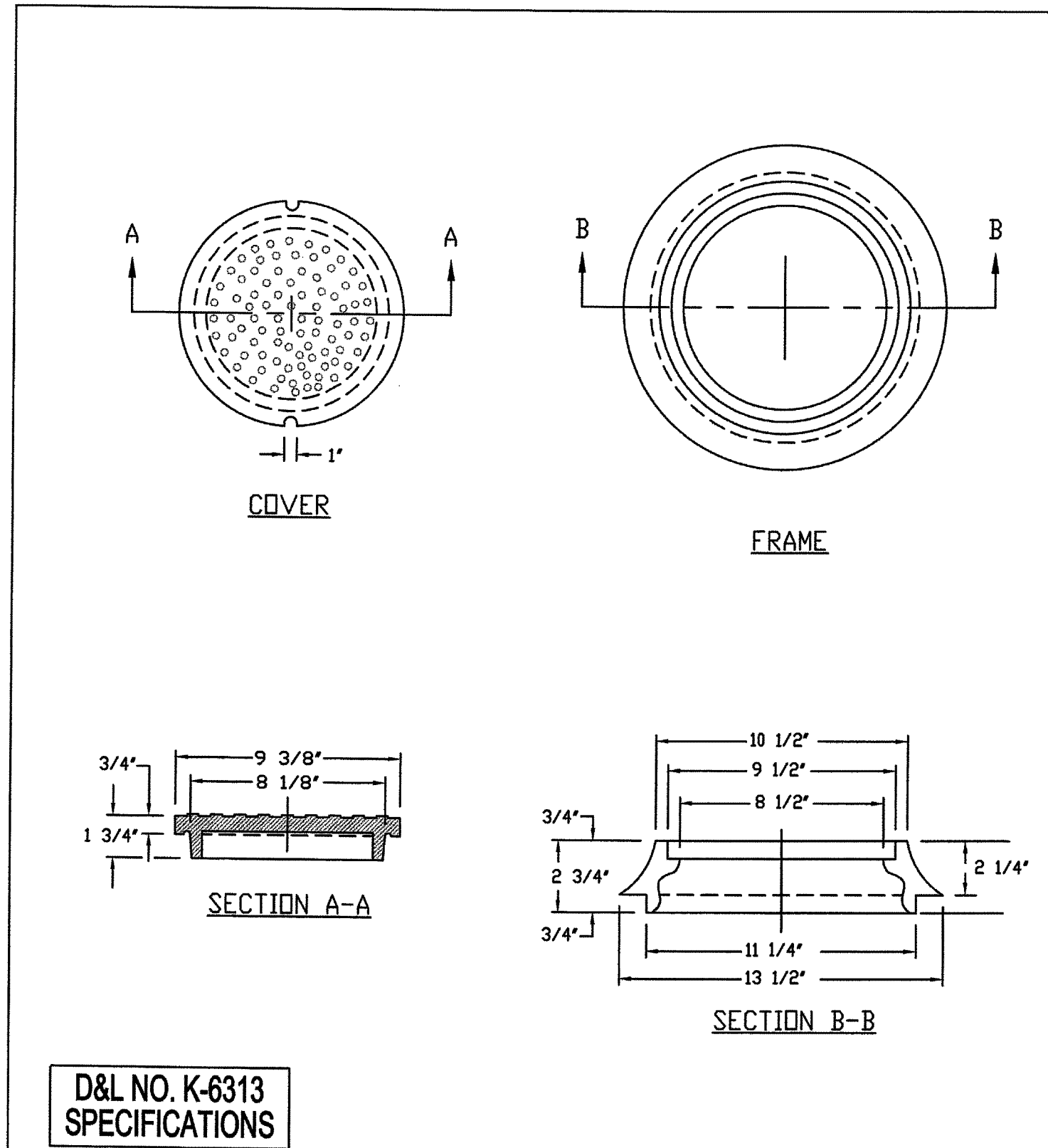
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WEBER COUNTY SURVEY OFFICE RING & LID SURVEY MONUMENT STANDARD PLANS Monument Standard SHEET 1 OF 3
3/28/10 399-0020



WEBER COUNTY SURVEY OFFICE Cover Collar For Survey Monuments STANDARD PLANS Monument Specifications SHEET 2 OF 3
3/28/10 399-0020



WEBER COUNTY SURVEY OFFICE RING & LID SURVEY MONUMENT STANDARD PLANS Monument Specifications SHEET 3 OF 3
3/28/10 399-0020

D&L NO. K-6313 SPECIFICATIONS

Waterway

1. GENERAL

A. Variance from specified dimensions and slopes must be acceptable to the ENGINEER. System configuration may be changed at ENGINEER'S discretion.

B. Unless indicated otherwise, width of waterway as follows.

- 4 feet for a residential street.
- 6 feet for a non-residential street.
- If wider than 6 feet, offset the flow line in the waterway to match (line up with) the curb and gutter flow line. Adjust cross slopes to match existing slopes.

C. Additional requirements are specified in APWA Section 32 16 13.

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. Expansion Joint Filler: 1/2-inch thick type F1 full depth, APWA Section 32 13 73.

C. 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.

D. Reinforcement: Galvanized or epoxy coated, deformed, 60 ksi yield grade steel, ASTM A615.

E. Concrete Curing Agent: Clear membrane forming compound with fugitive dye (Type ID Class A), APWA Section 03 39 00.

3. EXECUTION

A. 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.

B. Concrete Placement: APWA Section 03 30 10.

- Install expansion joints vertical, full depth, with top of filler set flush with concrete surface. 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.

C. 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.

Waterway transition structure

1. GENERAL

A. Variance from specified dimensions and slopes must be acceptable to the ENGINEER. System configuration may be changed at ENGINEER'S discretion.

B. Additional requirements are specified in APWA Section 32 16 13.

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. Expansion Joint Filler: 1/2-inch thick type F1 full depth, APWA Section 32 13 73.

C. 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.

D. Reinforcement: Galvanized or epoxy coated, deformed, 60 ksi yield grade steel, ASTM A615.

E. Concrete Curing Agent: Clear membrane forming compound with fugitive dye (Type ID Class A), APWA Section 03 39 00.

3. EXECUTION

A. 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.

B. 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.

C. 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.

211

4-0" WATERWAY
CONCRETE AREA = 2.583 SQ. FT.

6-0" WATERWAY
CONCRETE AREA = 3.875 SQ. FT.

8-0" WATERWAY
CONCRETE AREA = 5.166 SQ. FT.

Waterway Plan 211 July 2011

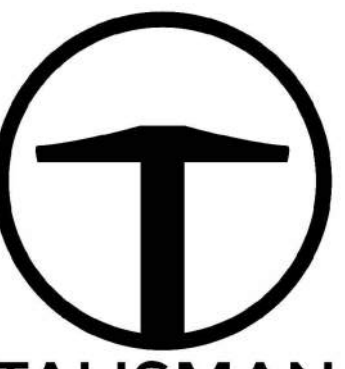
213

PLAN

SECTION A-A

Waterway transition structure Plan 213 May 2005

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1588 SOUTH MAIN STREET SUITE 200 SALT LAKE CITY, UT 84116 801.743.1300

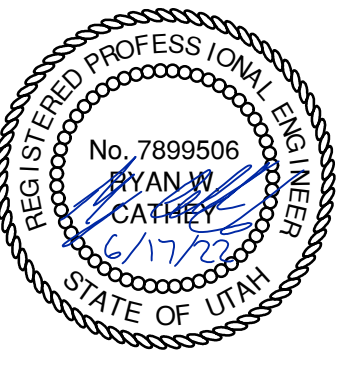
NO.	DATE	BY	REVISIONS
1	05/17/2022	APP	UPDATE TO 2021 TYPED STANDARDS
2	05/17/2022	APP	REV 1 REVIEW COMMENTS, ENTRY ADD

OVERLOOK PH3 AT POWDER MTN

DETAILS

DATE SUBMITTED: 10/8/2019

TCC JOB NUMBER: 18-20.23



SHEET NUMBER
705
17 OF 19



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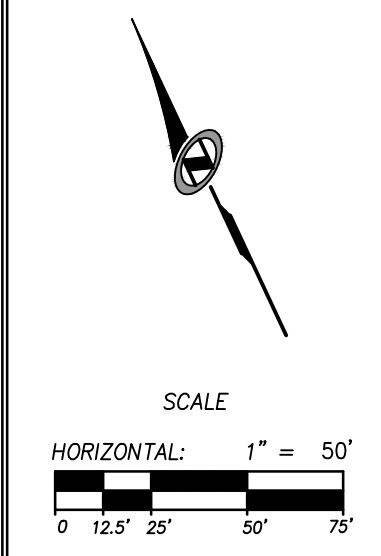
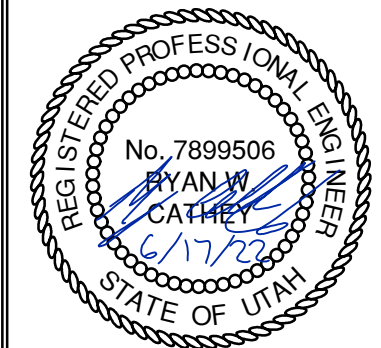
TALISMAN
CIVIL CONSULTANTS
1588 SOUTH MAIN STREET
SUITE 200
SALT LAKE CITY, UT 84115
801.743.1300

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1	05/17/2022	JRP	UPDATE TO 2021 FINISHED STANDARDS
2	06/17/2022	JRP	REV. REVIEW COMMENTS, ENTRY ADD

OVERLOOK PH3 AT POWDER MTN
OVERALL DRY UTILITY PLAN

DATE SUBMITTED: 10/8/2019

TCC JOB NUMBER: 18-20.23

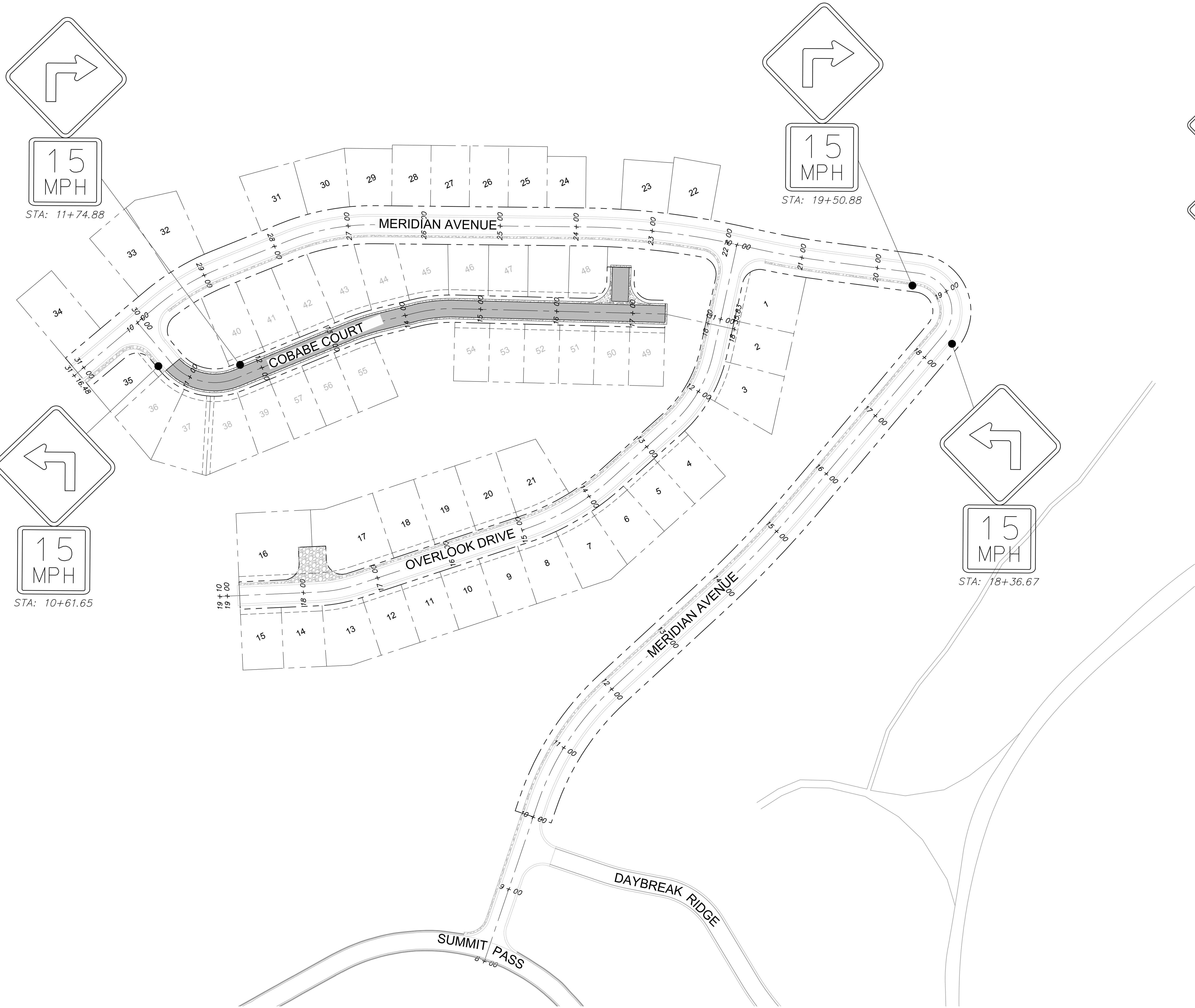


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800
18 OF 19


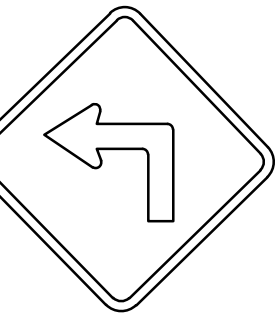
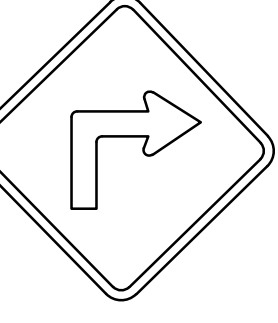


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LEGEND

-  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



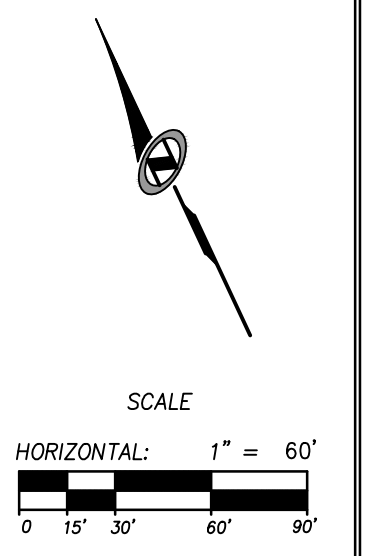
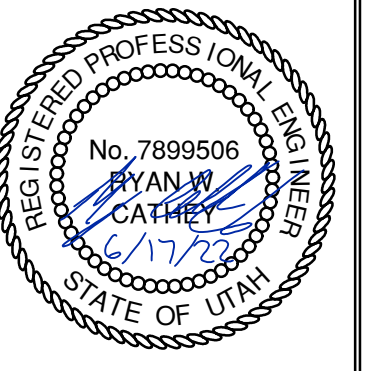
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SUITE 200
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SIGNAGE PLAN

DATE SUBMITTED: 10/8/2019

TCC JOB NUMBER: 18-20.23



SHEET NUMBER
900
19 OF 19