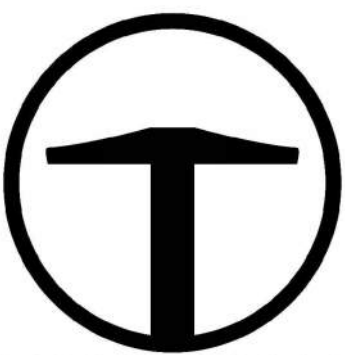


# POWDER POINT AT POWDER MOUNTAIN DESIGN DEVELOPMENT DRAWINGS

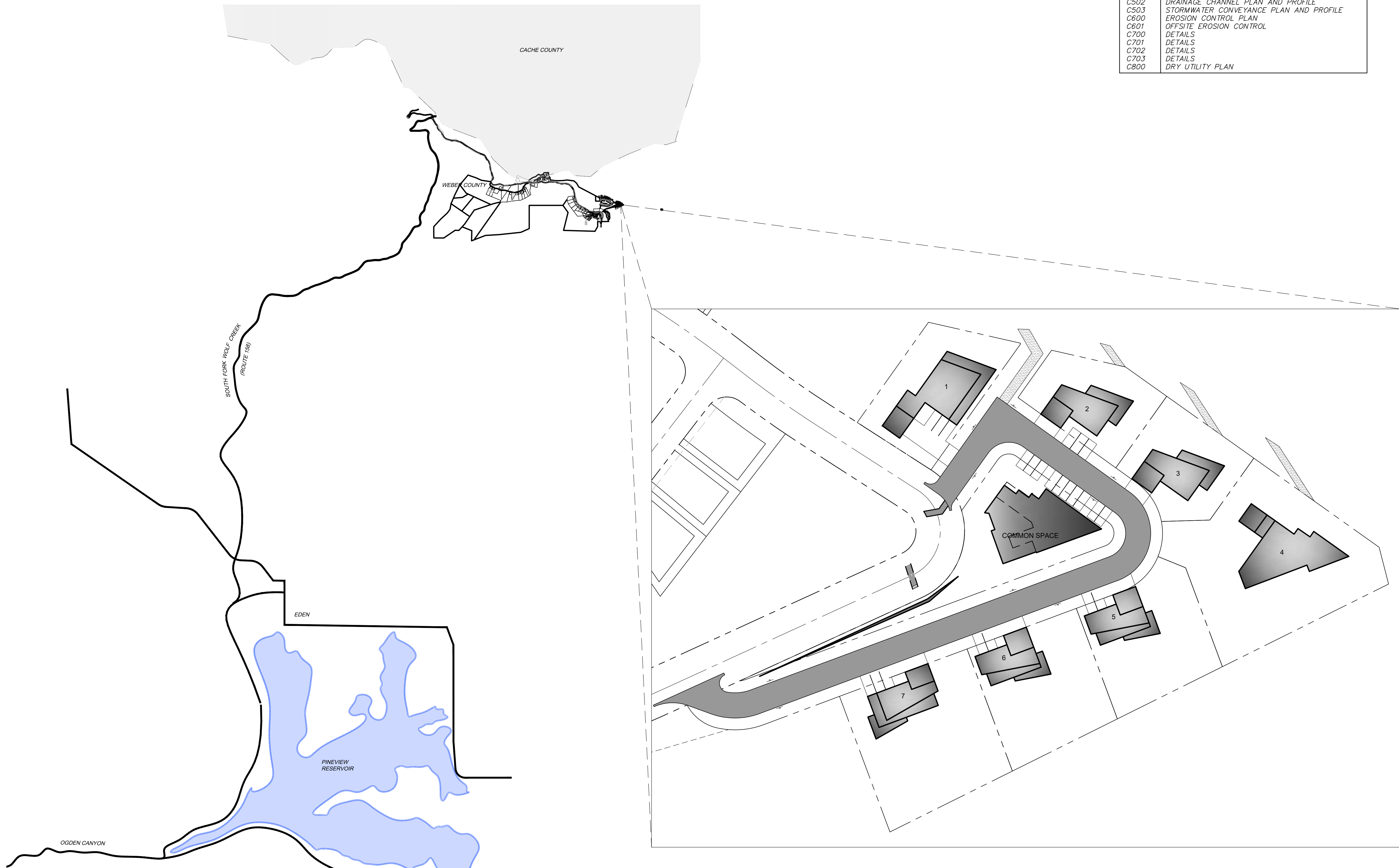
Located in Weber County, Utah



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1588 SOUTH MAIN STREET  
SUITE 200  
SALT LAKE CITY, UT 84115  
801.743.1500

**SHEET INDEX:**

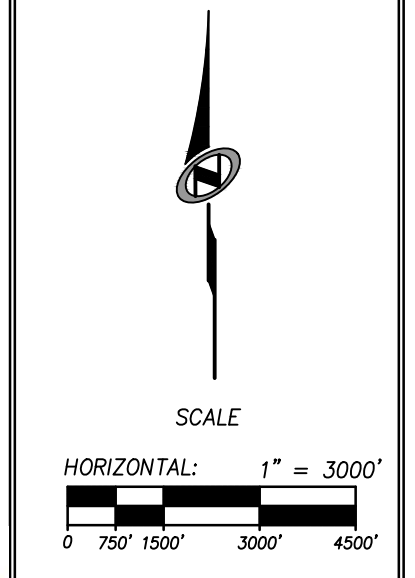
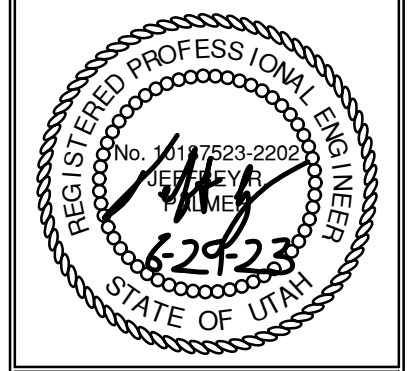
SHEET NO.	SHEET DESCRIPTION
C000	COVER SHEET
C001	GENERAL NOTES
C002	TYPICAL ROAD AND PAVEMENT SECTIONS
C200	DEMOLITION & SITE PLAN
C300	GRADING PLAN
C400	UTILITY PLAN
C500	PLAN AND PROFILE
C501	OFFSITE SEWER LINE PLAN AND PROFILE
C502	DRAINAGE CHANNEL PLAN AND PROFILE
C503	STORMWATER CONVEYANCE PLAN AND PROFILE
C600	EROSION CONTROL PLAN
C601	OFFSITE EROSION CONTROL
C700	DETAILS
C701	DETAILS
C702	DETAILS
C703	DETAILS
C800	DRY UTILITY PLAN



**POWDER POINT  
POWDER MOUNTAIN, UTAH  
COVER SHEET**

DATE: 06.29.2023

TCC JOB NUMBER: 22-126



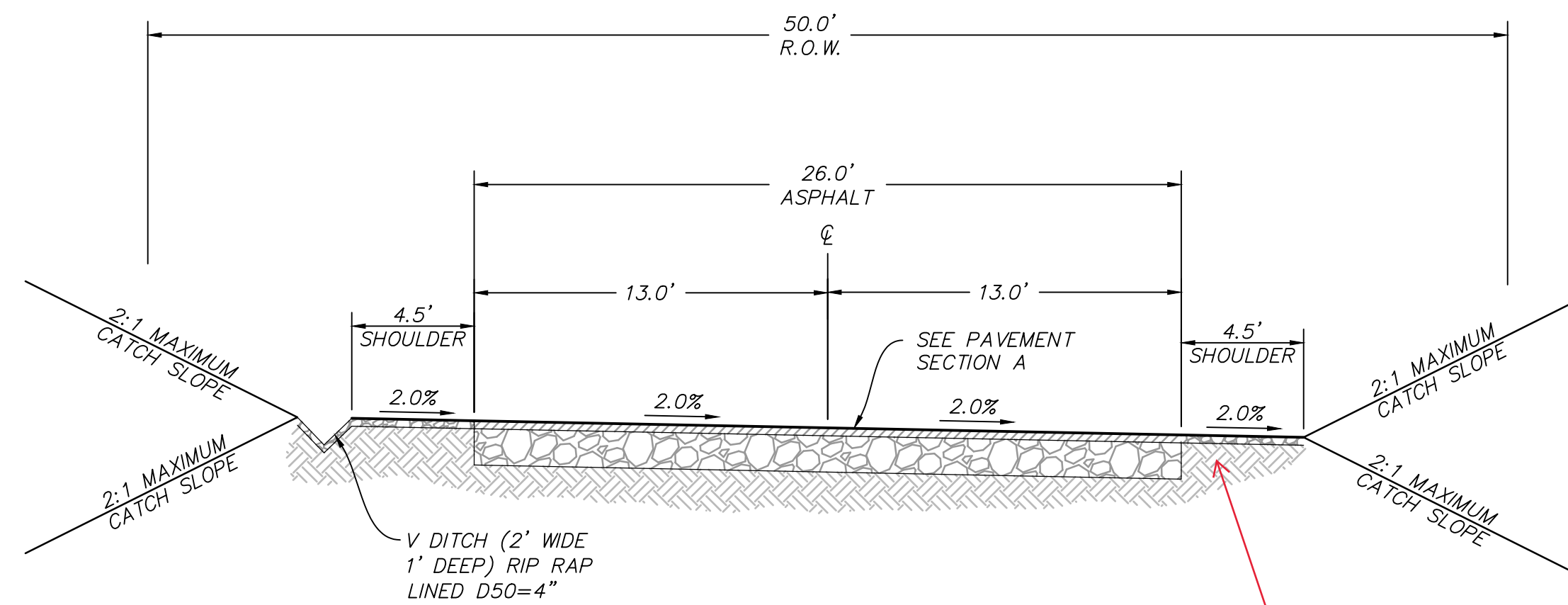
SHEET NUMBER  
**C000**  
1 OF 16



DATE: 6/20/2023 2:48 PM

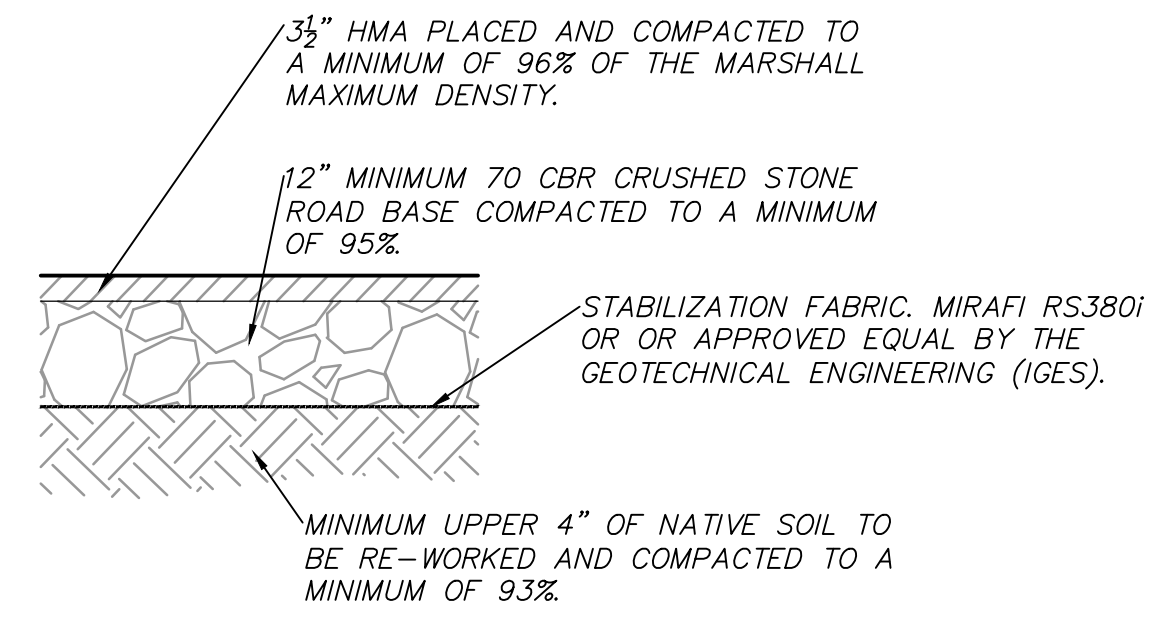
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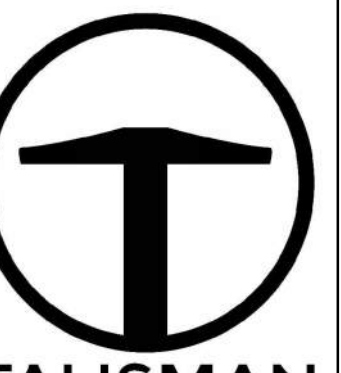
TYPICAL SECTION: POWDER POINT

The previous design had Curb and Gutter. Please add Curb and Gutter.



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

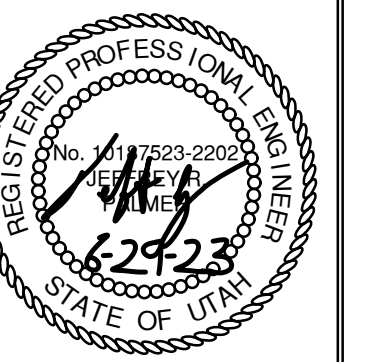
PAVEMENT SECTION A



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NO.	BY	DATE	REVISIONS

POWDER POINT  
POWDER MOUNTAIN, UTAH  
TYPICAL ROAD AND PAVEMENT SECTIONS  
TCC JOB NUMBER: 22-126  
DATE: 06.29.2023

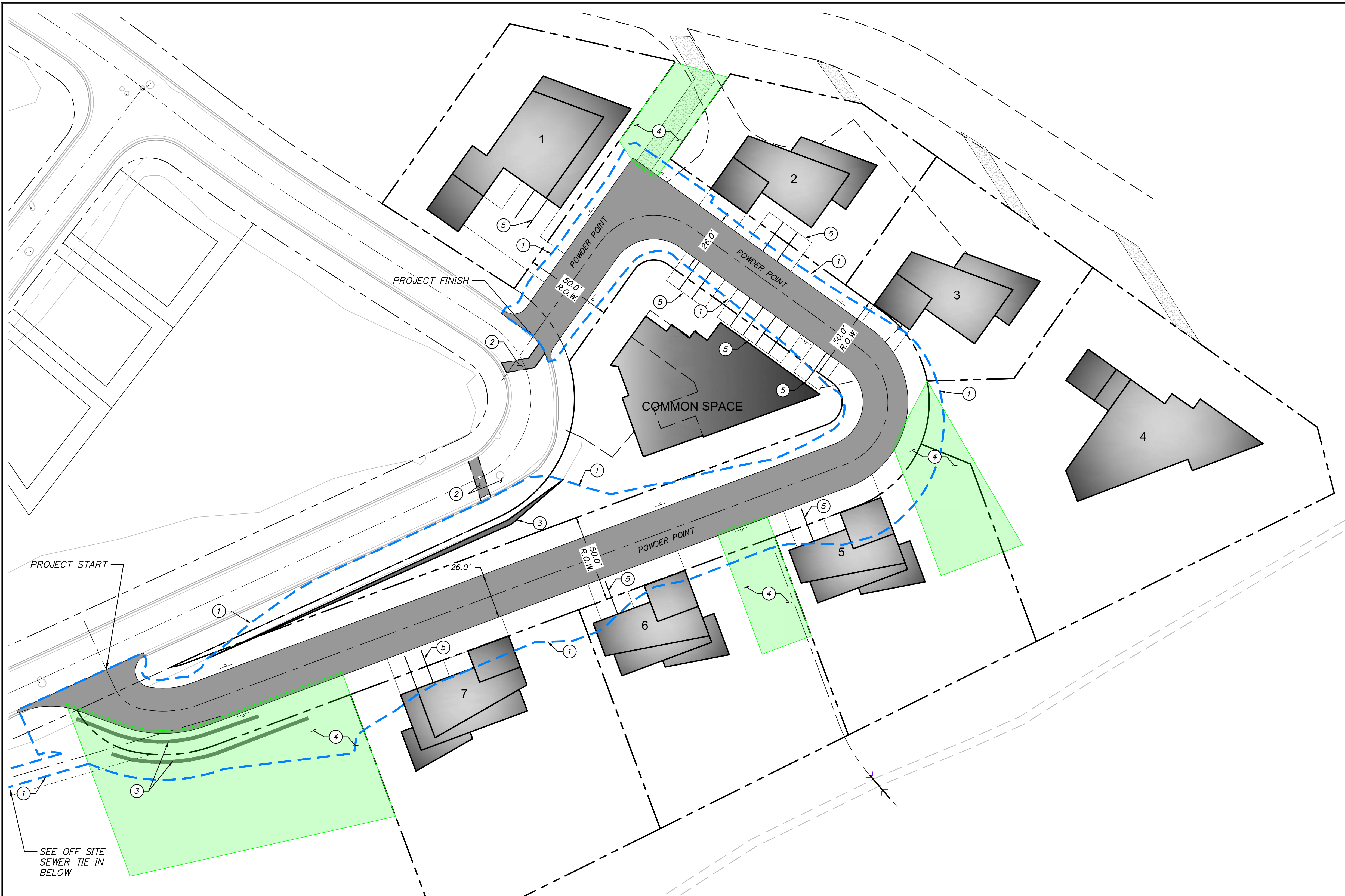


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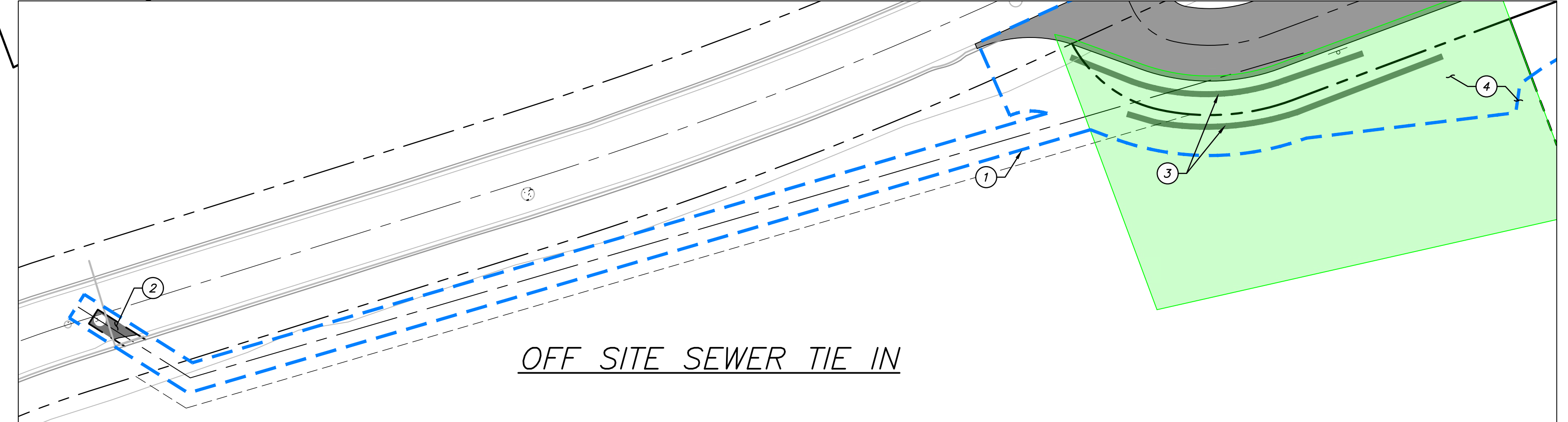
C002

DATE: 6/30/2023 2:49 PM

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SEE OFF SITE SEWER TIE IN BELOW



OFF SITE SEWER TIE IN

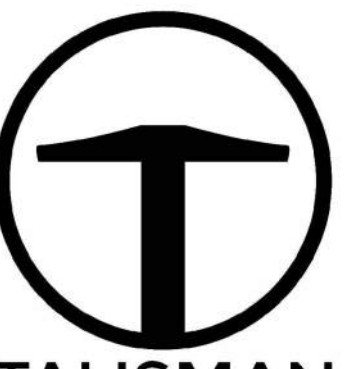
**SITE GENERAL NOTES:**

1. SEE GRADING DRAWINGS FOR ADDITIONAL DESIGN INFORMATION.
2. ALL SIGNS AND MARKINGS SHALL CONFORM TO THE LATEST EDITION ON THE M.U.T.C.D.
3. NO PHASING ANTICIPATED ON THIS PROJECT.
4. BUILDING FOOTPRINTS ARE SHOWN FOR REFERENCE ONLY.

**SITE SCOPE OF WORK:**

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 APPROXIMATE LIMITS OF DISTURBANCE.
- ② SAWCUT AND REMOVE ASPHALT TO INSTALL UTILITIES, REPLACE ASPHALT PER PAVEMENT SECTION A, SEE SHEET C002
- ③ INSTALL ROCKERY STABILIZED SLOPE PER DETAIL A. SEE SHEET C702.
- ④ SNOW STORAGE AREA.
- ⑤ FUTURE PARKING, TO BE DESIGNED AS PART OF BUILDING PERMIT PLAN SET.



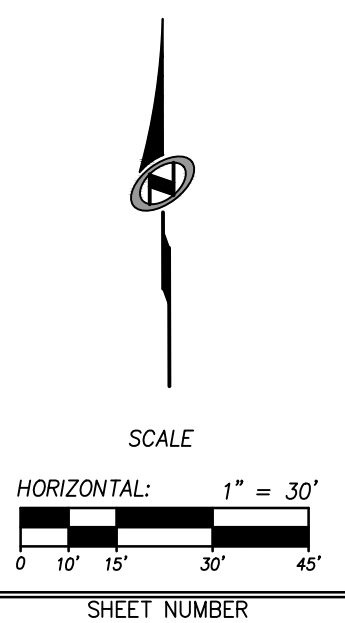
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SUITE 200  
SALT LAKE CITY, UT 84115  
801.743.1300

NO.	DATE	BY	REVISIONS

**POWDER POINT**  
POWDER MOUNTAIN, UTAH  
DEMOLITION AND SITE PLAN

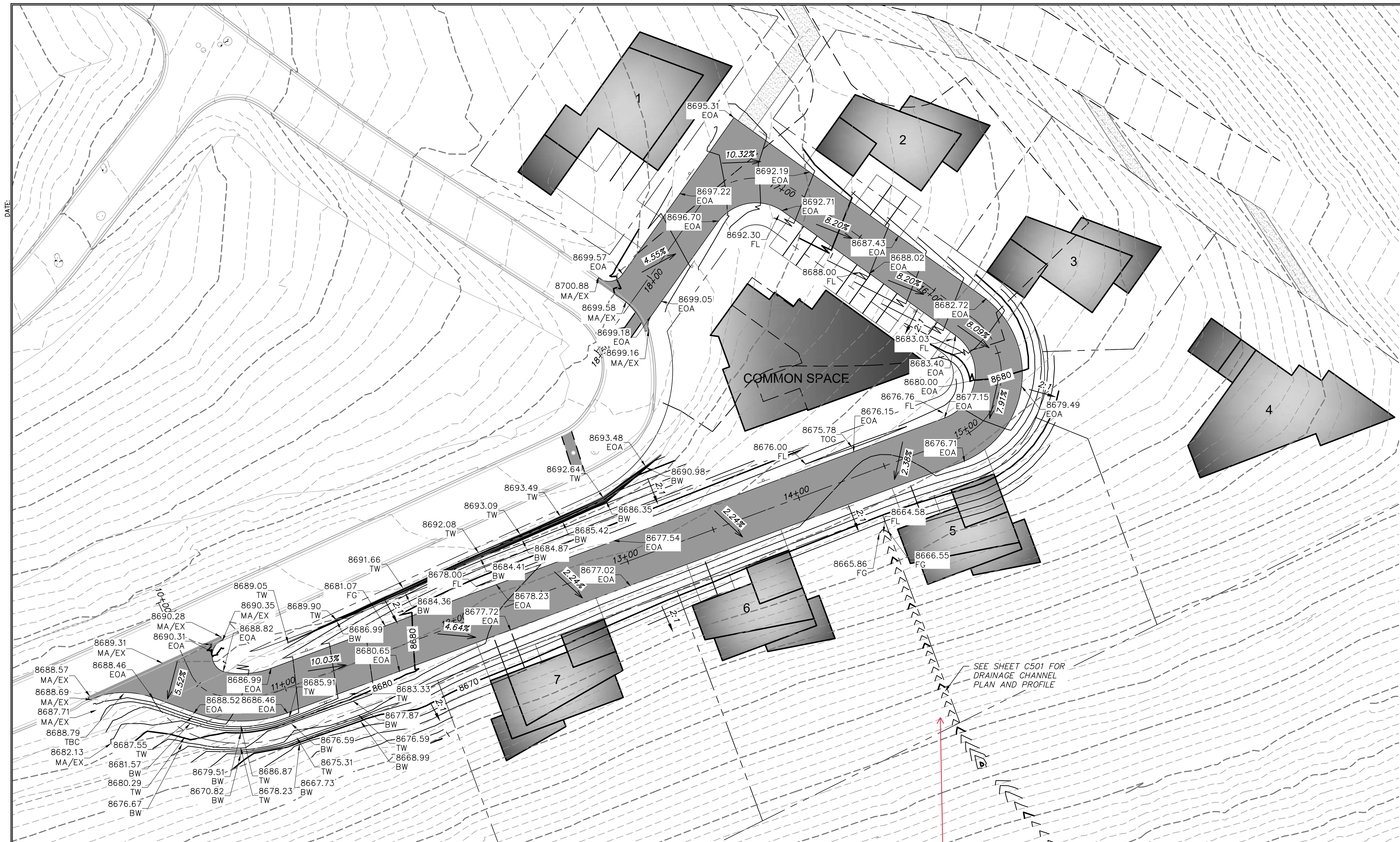
DATE: 06.29.2023

TCC JOB NUMBER: 22-126



SHEET NUMBER  
**C200**  
4 OF 16





**GRADING GENERAL NOTES:**

- SEE SHEET C500 FOR PLAN AND PROFILE OF ROAD.
- SITE GRADING SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND REPLACING ALL SOFT, YIELDING OR UNSUITABLE MATERIALS AND REPLACING THEM WITH SUITABLE MATERIALS. ALL EXCAVATED OR FILLED AREAS SHALL BE COMPACTED TO 95% OF MODIFIED PROCTOR MAXIMUM DENSITY PER ASTM TEST D-1557. MOISTURE CONTENT AT TIME OF PLACEMENT SHALL NOT EXCEED 2% ABOVE NOR 3% BELOW OPTIMUM. CONTRACTOR SHALL SUBMIT A COMPACTION REPORT PREPARED BY A QUALIFIED REGISTERED GEOTECHNICAL ENGINEER, VERIFYING THAT ALL FILLED AREAS AND SUBGRADE AREAS TO BE PAVED HAVE BEEN COMPACTED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS.
- CONTRACTOR SHALL BECOME FAMILIAR WITH EXISTING SOIL CONDITIONS.
- THE CONTRACTOR IS TO USE BEST MANAGEMENT PRACTICES FOR PROVIDING EROSION CONTROL AND DUST SUPPRESSION FOR CONSTRUCTION OF THIS PROJECT.
- EXISTING UNDERGROUND UTILITIES AND IMPROVEMENTS ARE SHOWN IN THEIR APPROXIMATE LOCATIONS BASED UPON RECORD INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF PLANS. LOCATIONS MAY NOT HAVE BEEN VERIFIED IN THE FIELD AND NO GUARANTEE IS MADE AS TO ACCURACY OR COMPLETENESS OF THE INFORMATION SHOWN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXISTENCE AND LOCATION OF THOSE UTILITIES SHOWN ON THESE PLANS OR INDICATED IN THE FIELD BY LOCATING SERVICES. ANY ADDITIONAL COSTS INCURRED AS A RESULT OF CONTRACTOR'S FAILURE TO VERIFY LOCATIONS OF EXISTING UTILITIES PRIOR TO BEGINNING OF CONSTRUCTION IN THEIR VICINITY SHALL BE BORNE BY THE CONTRACTOR AND ASSUMED INCLUDED IN THE CONTRACT.
- LOCATIONS OF ALL UNDERGROUND UTILITIES SHOWN ARE APPROXIMATE. CONTRACTOR IS TO VERIFY CONNECTION POINTS WITH EXISTING UTILITIES. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE CAUSED TO EXISTING UTILITIES AND UTILITY STRUCTURES THAT ARE TO REMAIN.
- ALL SURFACE IMPROVEMENTS DISTURBED BY CONSTRUCTION SHALL BE RESTORED OR REPLACED, INCLUDING TREES, DECORATIVE SHRUBS, SOD, FENCES, WALLS AND STRUCTURES, WHETHER OR NOT THEY ARE SPECIFICALLY SHOWN ON THE CONTRACT DOCUMENTS.

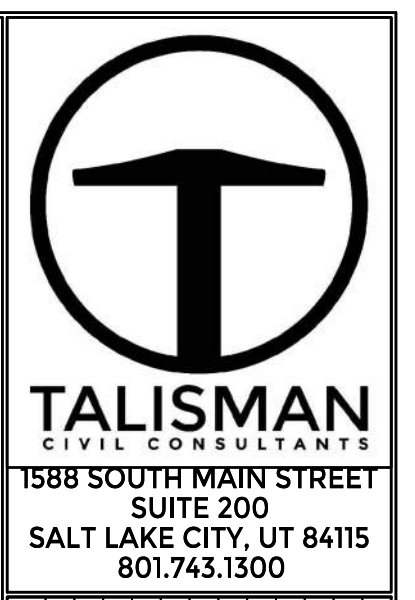
**ABBREVIATIONS:**

BS	BOTTOM OF STAIRS
BW	BOTTOM OF WALL
EX	EXISTING GRADE
EP	EDGE OF PAVEMENT
FFE	FINISHED FLOOR ELEVATION
FG	FINISHED GRADE
GB	GRADE BREAK
MA	MATCH
SW	EDGE OF SIDEWALK
TBC	TOP BACK OF CURB
TOA	TOP OF ASPHALT
TS	TOP OF STAIRS
TW	TOP OF WALL

**LEGEND:**

----	XXXX	EXISTING ELEVATION CONTOURS
----	XXXX	EXISTING ELEVATION CONTOURS
----	XXXX	PROPOSED ELEVATION CONTOURS
----	XXXX	PROPOSED ELEVATION CONTOURS

Please add detail for Drainage channel

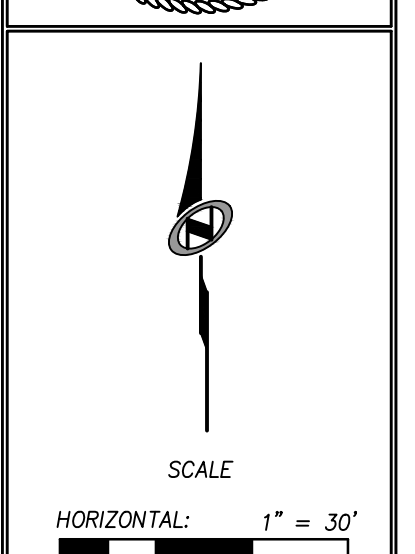
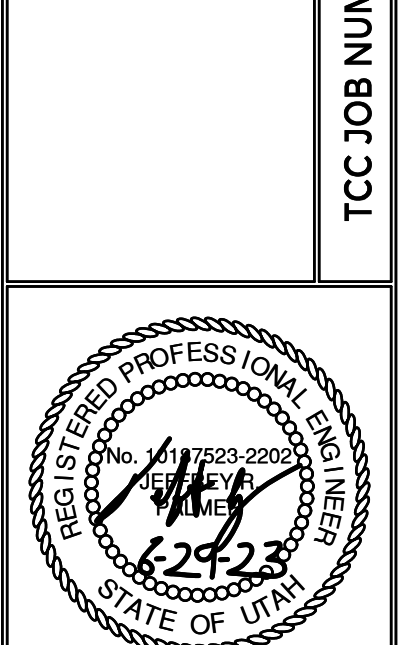


REVISED	DATE	BY	NO.

**POWDER POINT  
POWDER MOUNTAIN, UTAH  
GRADING PLAN**

TCC JOB NUMBER: 22-126

DATE: 06.29.2023

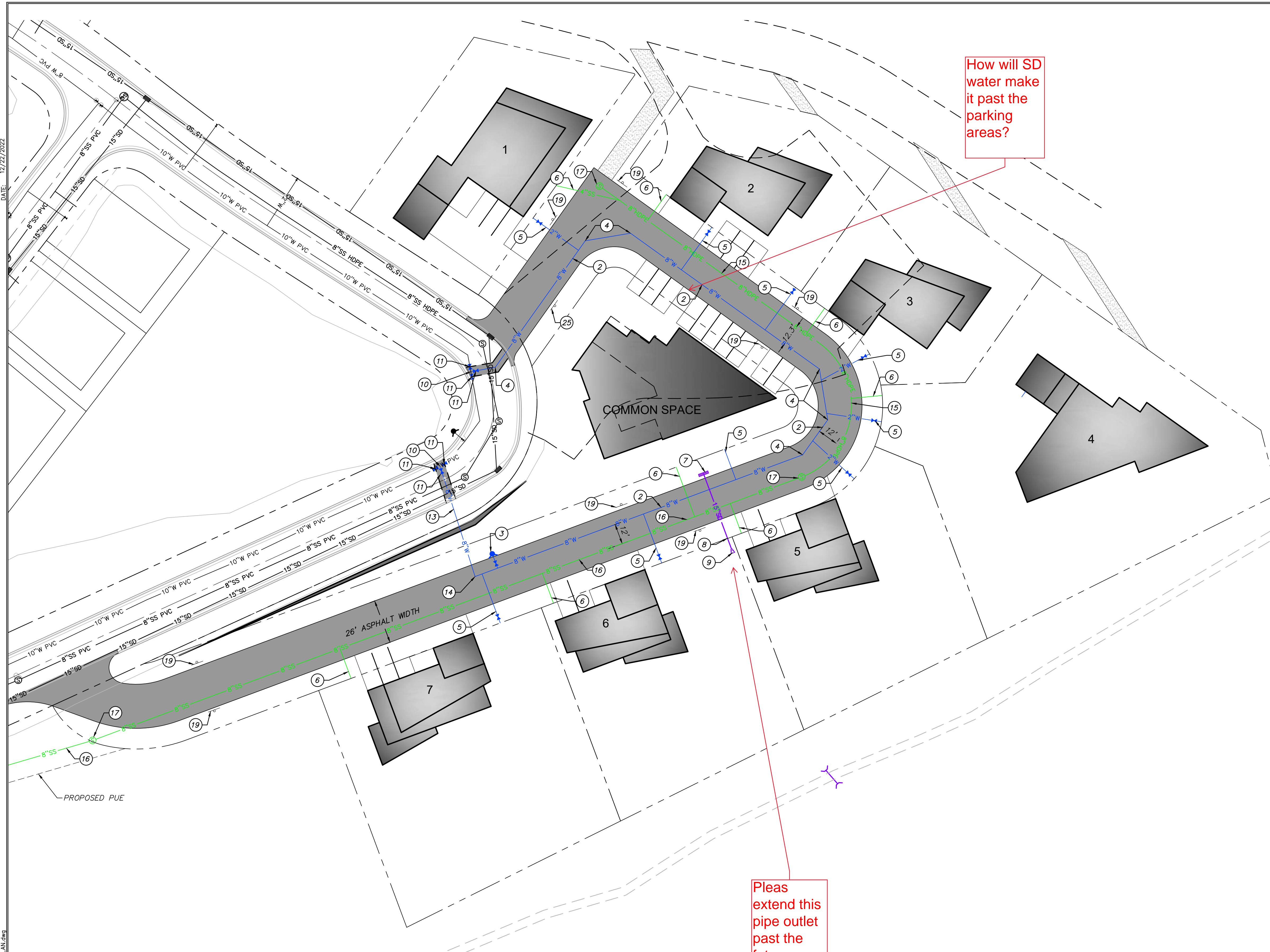


SHEET NUMBER  
**C300**  
5 OF 16



DATE: 12/22/2022

PATH: m:\s\160793\cadd\22-126 - ewerose north\cadd\up\_400 UTILITY PLAN.dwg



**UTILITY GENERAL NOTES:**

1. SEE GRADING DRAWINGS FOR ADDITIONAL DESIGN INFORMATION.
2. EXISTING UNDERGROUND UTILITIES AND IMPROVEMENTS ARE SHOWN IN THEIR APPROXIMATE LOCATIONS BASED UPON RECORD INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF PLANS. LOCATIONS MAY NOT HAVE BEEN VERIFIED IN THE FIELD AND NO GUARANTEE IS MADE AS TO ACCURACY OR COMPLETENESS OF THE INFORMATION SHOWN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXISTENCE AND LOCATION OF THOSE UTILITIES SHOWN ON THESE PLANS OR INDICATED IN THE FIELD BY LOCATING SERVICES. ANY ADDITIONAL COSTS INCURRED AS A RESULT OF CONTRACTOR'S FAILURE TO VERIFY LOCATIONS OF EXISTING UTILITIES PRIOR TO BEGINNING OF CONSTRUCTION IN THEIR VICINITY SHALL BE BORNE BY THE CONTRACTOR AND ASSUMED INCLUDED IN THE CONTRACT.
3. CONTRACTOR IS TO VERIFY CONNECTION POINTS WITH EXISTING UTILITIES. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE CAUSED TO EXISTING UTILITIES AND UTILITY STRUCTURES THAT ARE TO REMAIN.
4. ALL SURFACE IMPROVEMENTS DISTURBED BY CONSTRUCTION SHALL BE RESTORED OR REPLACED, INCLUDING TREES, DECORATIVE SHRUBS, SOD, FENCES, WALLS AND STRUCTURES, WHETHER OR NOT THEY ARE SPECIFICALLY SHOWN ON THE CONTRACT DOCUMENTS.
5. SEE SHEETS C500 & C501 FOR VERTICAL DESIGN.

**UTILITY KEYNOTES:**

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

2. INSTALL 8" PVC C-900 WATER LINE PER PMWSID DETAIL DW-1 AND DW-2. SEE SHEET 700. INSULATE PIPE PER DETAIL A, SEE SHEET C703.
3. INSTALL FIRE HYDRANT PER PMWSID DETAIL DW-3 FIRE. SEE SHEET 700. FIRE HYDRANT SHALL HAVE TALL FLAG FOR DEEP SNOW. INSULATE PIPE PER DETAIL A, SEE SHEET C703.
4. INSTALL 8" 45° BEND WITH THRUST BLOCKING PER PMWSID DETAIL DW-7. SEE SHEET 700.
5. INSTALL 2" SERVICE LATERAL PER PMWSID DETAIL DW-5 TO CURB STOP. SERVICE LATERAL AND METER AFTER CURB STOP INSTALLED BY OTHERS. SEE SHEET 700. INSULATE PIPE PER DETAIL A, SEE SHEET C703.
6. INSTALL 4" SEWER LATERAL PER PMWSID DETAIL SS-3 SHEET C702. INSULATE PIPE PER DETAIL A, SEE SHEET C703.
7. INSTALL DOUBLE GRATE CATCH BASIN PER APWA PLAN 315.2. SEE SHEET 700.
8. INSTALL 15" HDPE STORM DRAIN PIPE PER APWA PLAN 381 AND 382. SEE SHEET 701.
9. INSTALL PIPE OUTFALL PER APWA PLAN 323.1. SEE SHEET 701.
10. INSTALL 8" TEE WITH THRUST BLOCKING PER PMWSID DETAIL DW-7. SEE SHEET C700.
11. INSTALL 8" GATE VALVE.
13. INSTALL 8" DR11 HDPE PIPE FROM VALVE TO 90° BEND PER PMWSID DETAILS DW-1, DW-2, AND DETAIL A, SEE SHEETS C700 & C703. INSIDE WELD NEEDS TO BE REMOVED ON THE HDPE SEWER PIPE. ENSURE A MINIMUM OF 18" CLEARANCE WHEN CROSSING EXISTING UTILITIES.
14. INSTALL 8" 90° BEND WITH THRUST BLOCKING PER PMWSID DETAIL DW-7. SEE SHEET C700.
15. INSTALL 8" SDR-17 HDPE FUSION WELDED SANITARY SEWER PIPE PER PMWSID DETAIL SS-1, SEE SHEET C702. INSULATE PIPE PER DETAIL A, SEE SHEET C703.
16. INSTALL 8" SDR-35 PVC SANITARY SEWER PIPE PER PMWSID DETAIL SS-1, SEE SHEET C702. INSULATE PIPE PER DETAIL A, SEE SHEET C703.
17. INSTALL 4' SANITARY SEWER MANHOLE PER PMWSID DETAIL SS-2, SEE SHEET C702.
19. INSTALL "NO PARKING" SIGN.

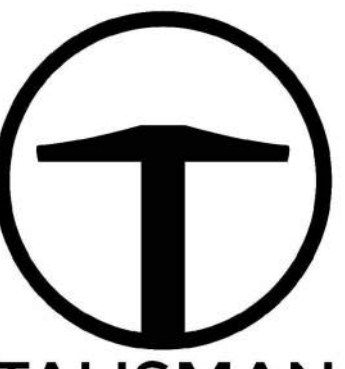
- FLARED INLET/OUTLET
- CATCH BASIN

**POWDER MOUNTAIN WATER AND SEWER IMPROVEMENT DISTRICT NOTES:**

1. CONTRACTOR SHALL FIELD VERIFY LOCATIONS AND INVERT ELEVATIONS OF EXISTING MANHOLES AND OTHER UTILITIES BEFORE STAKING OR CONSTRUCTING ANY NEW SEWER LINES.
2. ALL CONSTRUCTION SHALL COMPLY TO THE STANDARD TECHNICAL SPECIFICATIONS AND DRAWINGS FOR THE POWDER MOUNTAIN WATER AND SEWER IMPROVEMENT DISTRICT OF UTAH.
3. ALL WATER MAINS AND SERVICE LATERALS TO BE BURIED AT 7' MINIMUM DEPTH.

How will SD water make it past the parking areas?

Pleas extend this pipe outlet past the future home location.



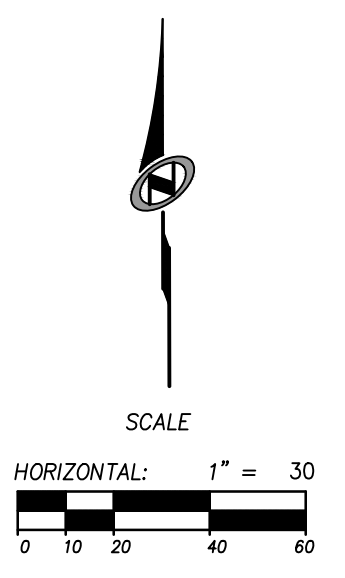
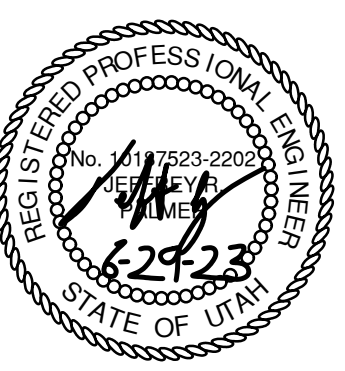
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1588 SOUTH MAIN STREET  
SUITE 200  
SALT LAKE CITY, UT 84115  
801.743.1300

NO.	DATE	BY	REVISIONS

**POWDER POINT  
POWDER MOUNTAIN, UTAH  
UTILITY PLAN**

TCC JOB NUMBER: 22-126

DATE: 06.29.2023

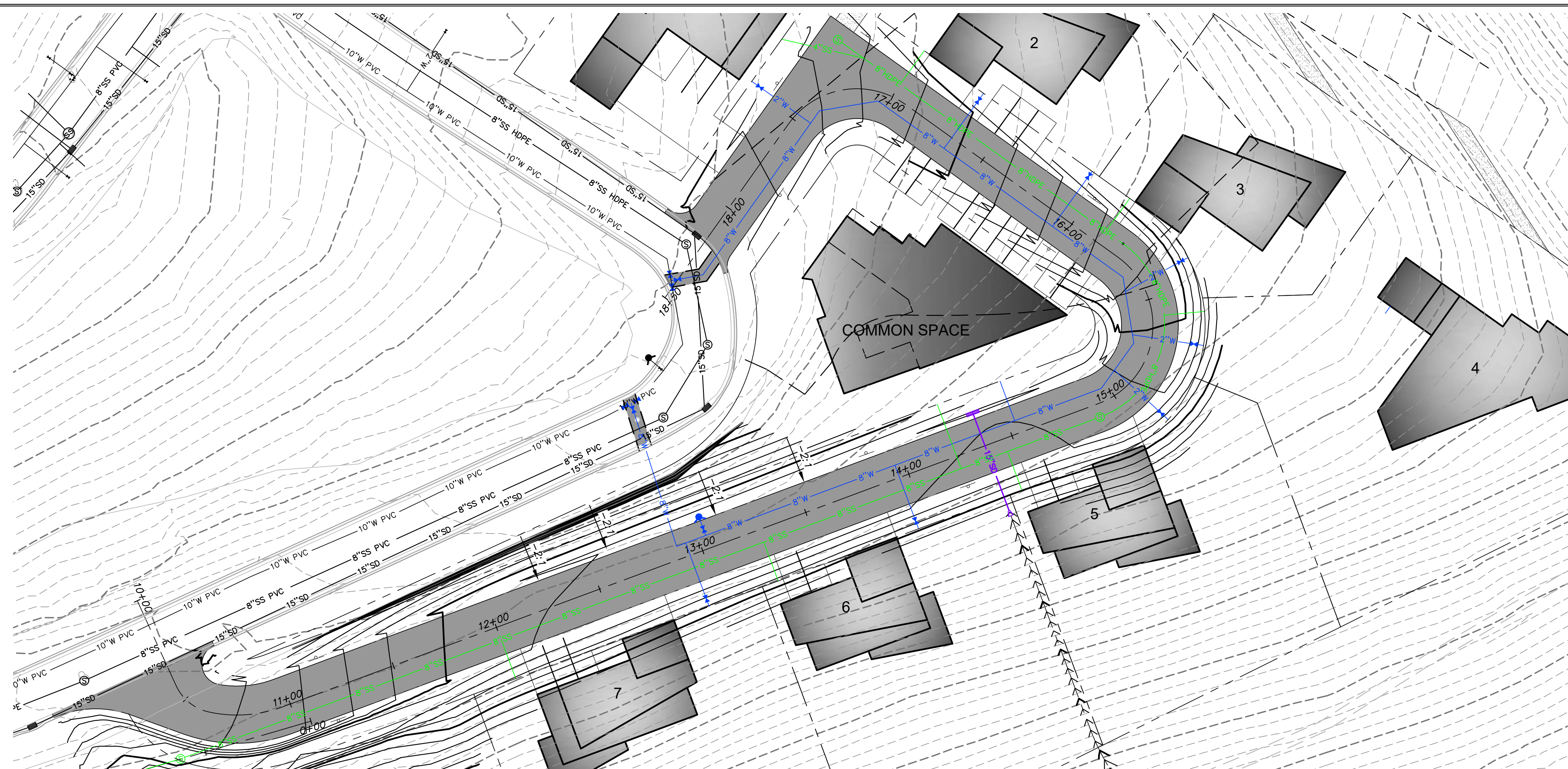


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DATE: 12/22/2022

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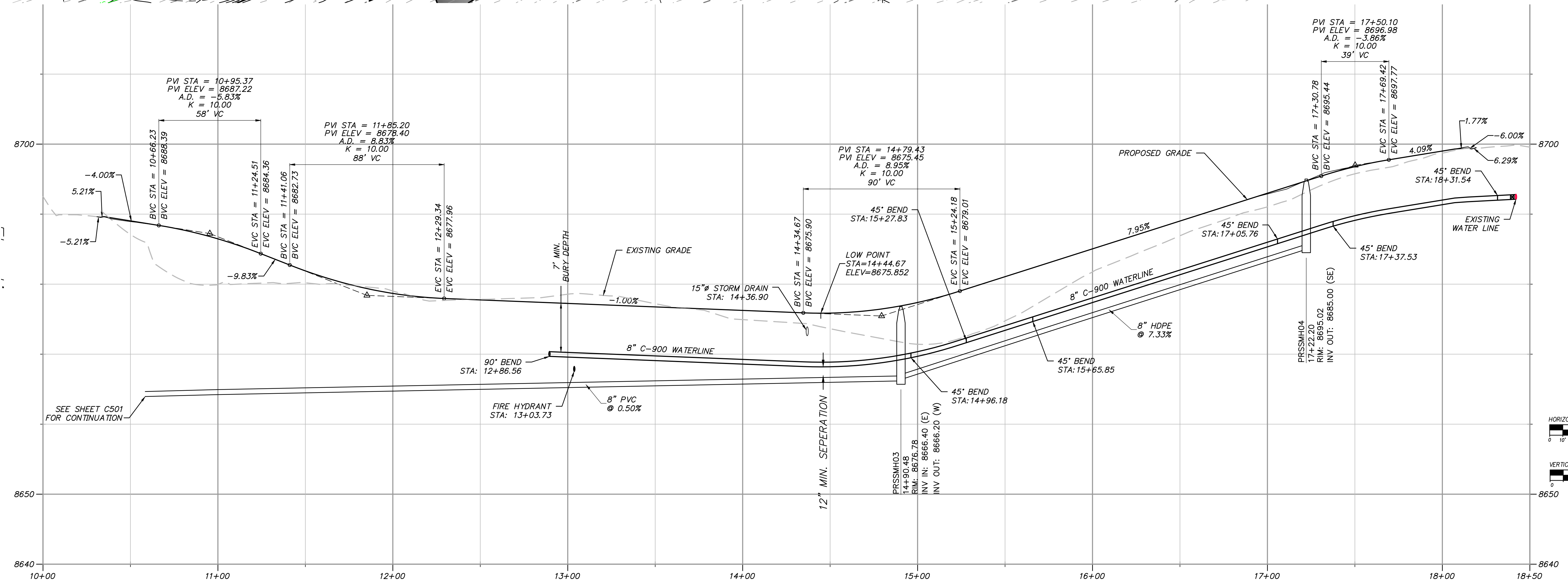


**UTILITY GENERAL NOTES:**

1. SEE GRADING DRAWINGS FOR ADDITIONAL DESIGN INFORMATION.
2. EXISTING UNDERGROUND UTILITIES AND IMPROVEMENTS ARE SHOWN IN THEIR APPROXIMATE LOCATIONS BASED UPON RECORD INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF PLANS. LOCATIONS MAY NOT HAVE BEEN VERIFIED IN THE FIELD AND NO GUARANTEE IS MADE AS TO ACCURACY OR COMPLETENESS OF THE INFORMATION SHOWN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXISTENCE AND LOCATION OF THOSE UTILITIES SHOWN ON THESE PLANS OR INDICATED IN THE FIELD BY LOCATING SERVICES. ANY ADDITIONAL COSTS INCURRED AS A RESULT OF CONTRACTOR'S FAILURE TO VERIFY LOCATIONS OF EXISTING UTILITIES PRIOR TO BEGINNING OF CONSTRUCTION IN THEIR VICINITY SHALL BE BORNE BY THE CONTRACTOR AND ASSUMED INCLUDED IN THE CONTRACT.
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5. SEE SHEETS C500 & C501 FOR VERTICAL DESIGN.

**POWDER MOUNTAIN WATER AND SEWER IMPROVEMENT DISTRICT NOTES:**

1. CONTRACTOR SHALL FIELD VERIFY LOCATIONS AND INVERT ELEVATIONS OF EXISTING MANHOLES AND OTHER UTILITIES BEFORE STAKING OR CONSTRUCTING ANY NEW SEWER LINES.
2. ALL CONSTRUCTION SHALL COMPLY TO THE STANDARD TECHNICAL SPECIFICATIONS AND DRAWINGS FOR THE POWDER MOUNTAIN WATER AND SEWER IMPROVEMENT DISTRICT OF UTAH.
3. ALL WATER MAINS AND SERVICE LATERALS TO BE BURIED AT 7' MINIMUM DEPTH.



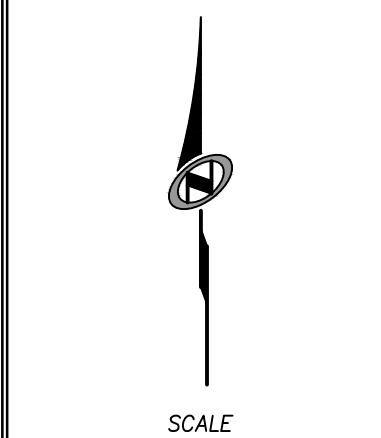
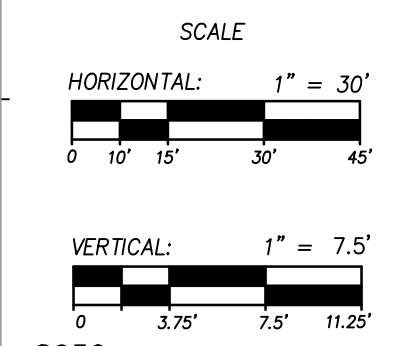
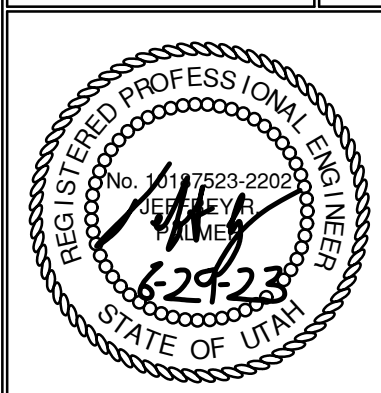
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CIVIL CONSULTANTS  
1588 SOUTH MAIN STREET  
SUITE 200  
SALT LAKE CITY, UT 84115  
801.743.1300

NO.	BY	DATE	REVISIONS

DATE: 06.29.2023

**POWDER POINT  
POWDER MOUNTAIN, UTAH  
PLAN AND PROFILE**

TCC JOB NUMBER: 22-126



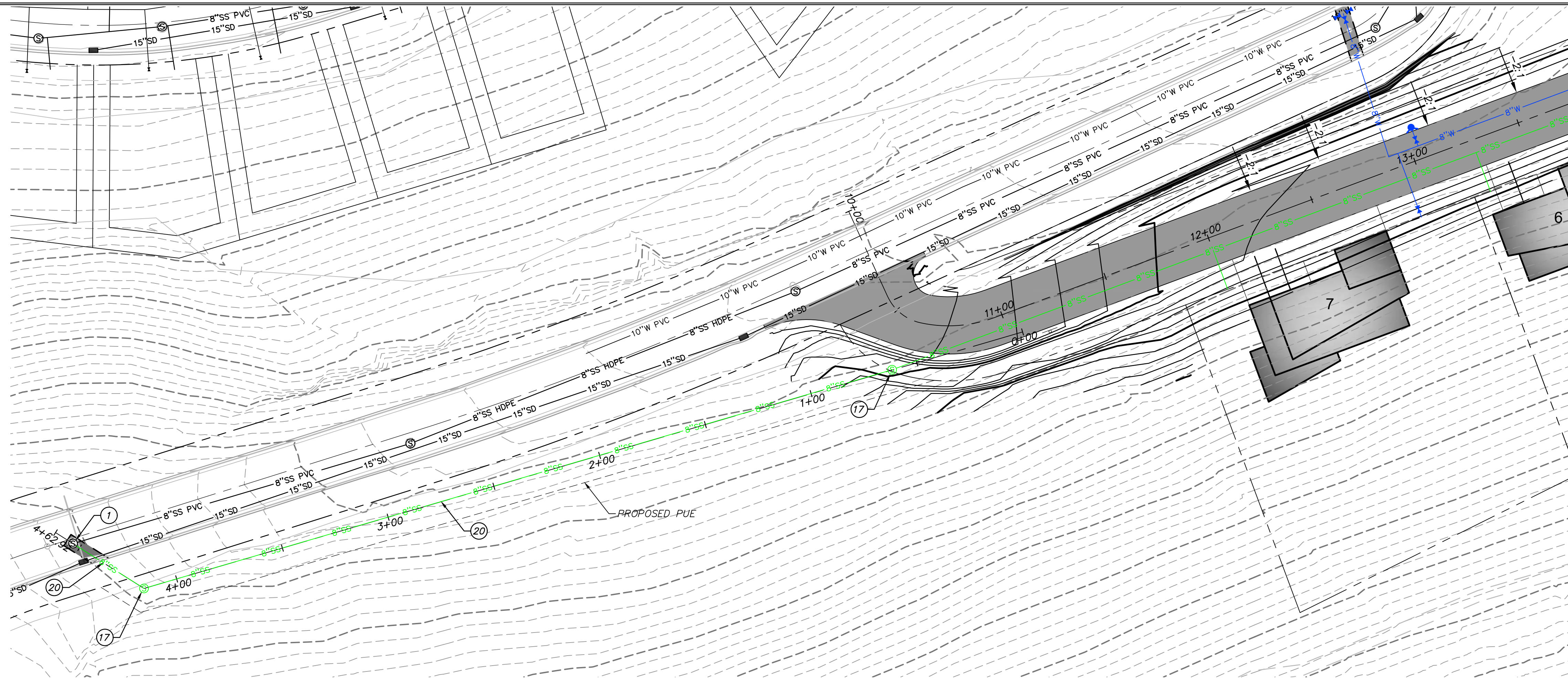
SHEET NUMBER

**C500**  
7 OF 16



DATE: 12/22/2022

PATH: m:\s\180793\cadd\up\501 PLAN & PROFILES.dwg



**UTILITY GENERAL NOTES:**

- SEE GRADING DRAWINGS FOR ADDITIONAL DESIGN INFORMATION.
- EXISTING UNDERGROUND UTILITIES AND IMPROVEMENTS ARE SHOWN IN THEIR APPROXIMATE LOCATIONS BASED UPON RECORD INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF PLANS. LOCATIONS MAY NOT HAVE BEEN VERIFIED IN THE FIELD AND NO GUARANTEE IS MADE AS TO ACCURACY OR COMPLETENESS OF THE INFORMATION SHOWN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXISTENCE AND LOCATION OF THOSE UTILITIES SHOWN ON THESE PLANS OR INDICATED IN THE FIELD BY LOCATING SERVICES. ANY ADDITIONAL COSTS INCURRED AS A RESULT OF CONTRACTOR'S FAILURE TO VERIFY LOCATIONS OF EXISTING UTILITIES PRIOR TO BEGINNING OF CONSTRUCTION IN THEIR VICINITY SHALL BE BORNE BY THE CONTRACTOR AND ASSUMED INCLUDED IN THE CONTRACT.
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- SEE SHEETS C500 & C501 FOR VERTICAL DESIGN.

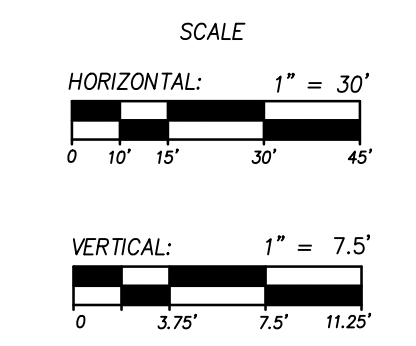
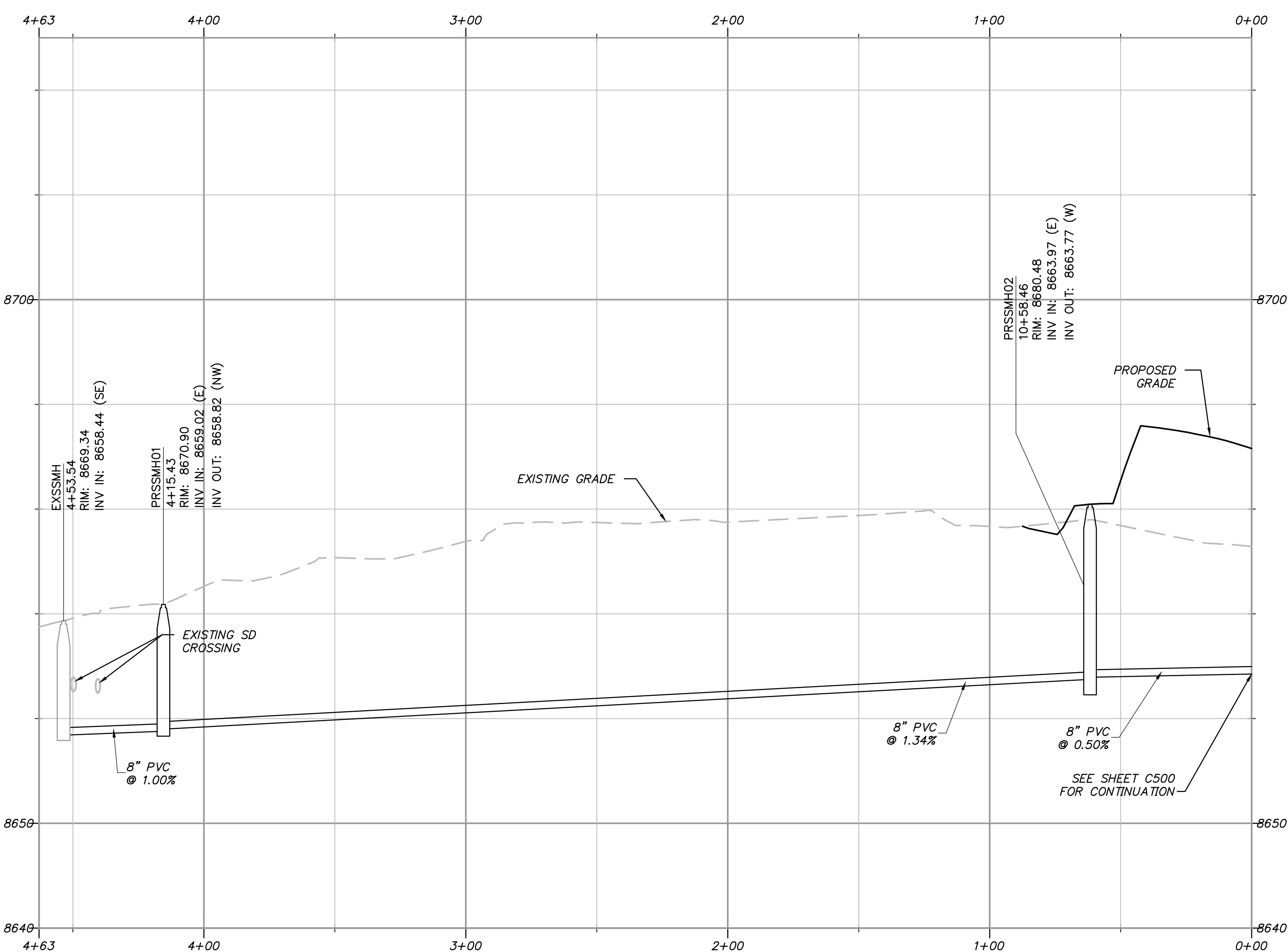
**UTILITY KEYNOTES:**

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 CONNECT TO EXISTING SANITARY SEWER MANHOLE AND GROUT IN PLACE.
- ⑱ INSTALL 4' SANITARY SEWER MANHOLE PER PMWSID DETAIL SS-2, SEE SHEET C702.
- ⑳ INSTALL 8" SDR-35 PVC SANITARY SEWER PIPE PER PMWSID DETAIL SS-1, SEE SHEET C702. INSULATE PIPE PER DETAIL A, SEE SHEET C703. NO INSULATION IS NECESSARY FOR THIS PORTION OF SEWER PIPE.

**POWDER MOUNTAIN WATER AND SEWER IMPROVEMENT DISTRICT NOTES:**

- CONTRACTOR SHALL FIELD VERIFY LOCATIONS AND INVERT ELEVATIONS OF EXISTING MANHOLES AND OTHER UTILITIES BEFORE STAKING OR CONSTRUCTING ANY NEW SEWER LINES.
- ALL CONSTRUCTION SHALL COMPLY TO THE STANDARD TECHNICAL SPECIFICATIONS AND DRAWINGS FOR THE POWDER MOUNTAIN WATER AND SEWER IMPROVEMENT DISTRICT OF UTAH.
- ALL WATER MAINS AND SERVICE LATERALS TO BE BURIED AT 7' MINIMUM DEPTH.

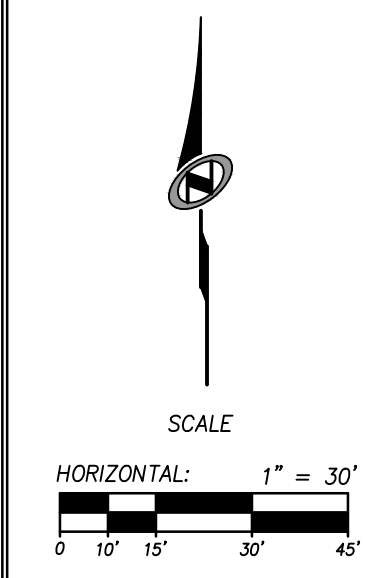
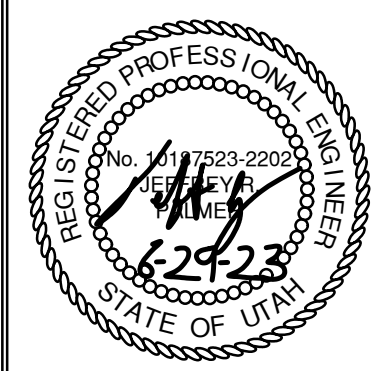


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1588 SOUTH MAIN STREET  
SUITE 200  
SALT LAKE CITY, UT 84115  
801.743.1300

NO.	BY	DATE	REVISIONS

**POWDER POINT  
POWDER MOUNTAIN, UTAH  
OFFSITE SEWER LINE PLAN AND PROFILE**

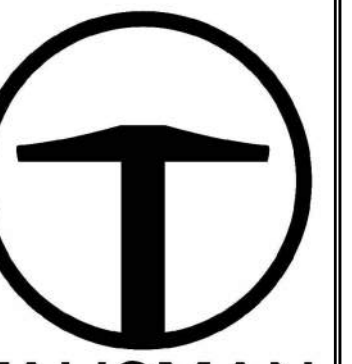
TCC JOB NUMBER: 22-126  
DATE: 06.29.2023



SHEET NUMBER  
**C501**  
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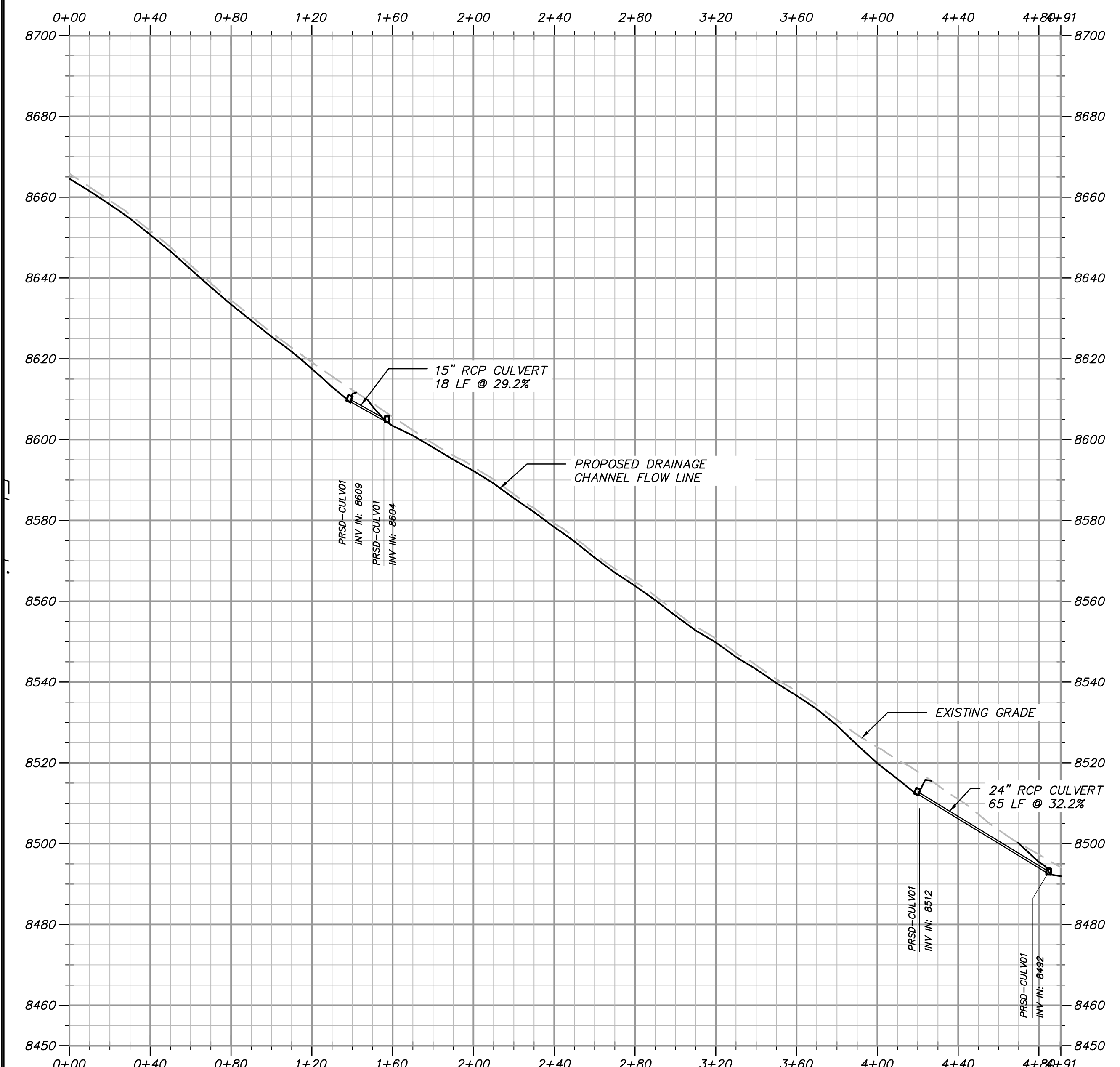
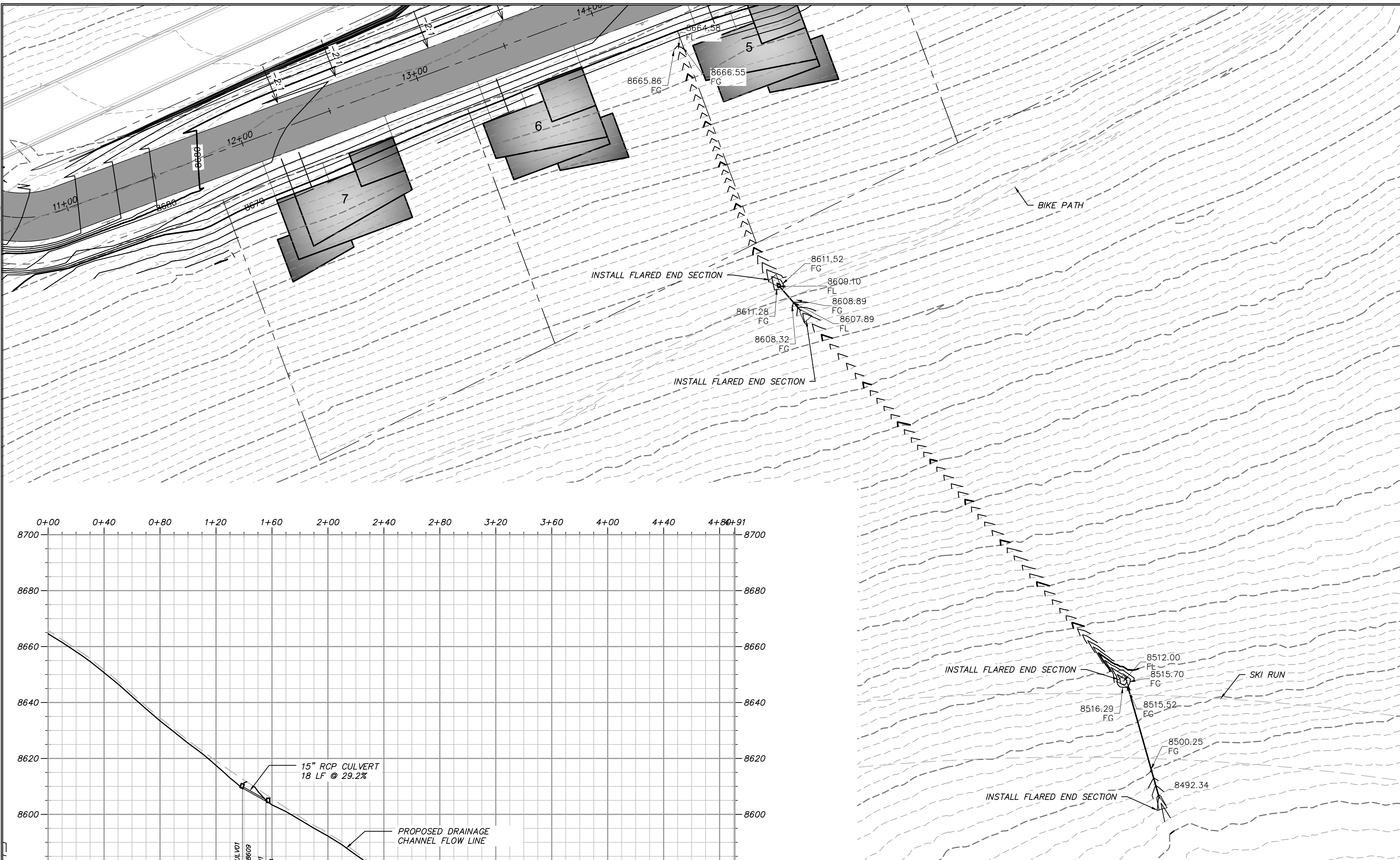
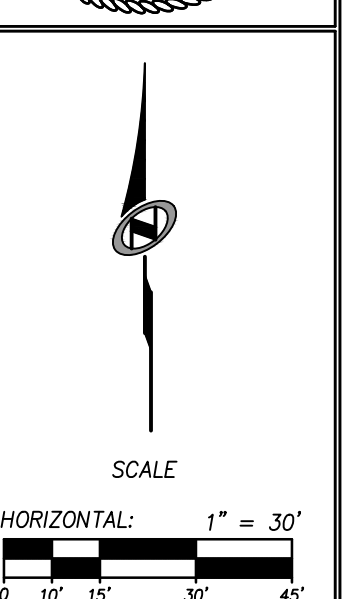
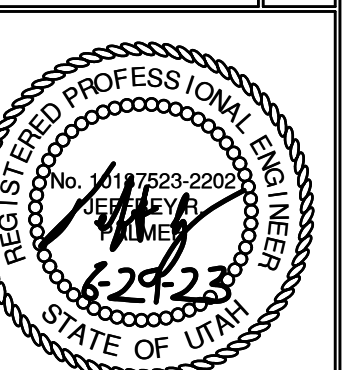


**TALISMAN**  
CIVIL CONSULTANTS  
1588 SOUTH MAIN STREET  
SUITE 200  
SALT LAKE CITY, UT 84115  
801.743.1300

REVISE	DATE	BY	NO.

# POWDER POINT POWDER MOUNTAIN, UTAH DRAINAGE CHANNEL PLAN & PROFILES

TCC JOB NUMBER: 22-126      DATE: 06.29.2023



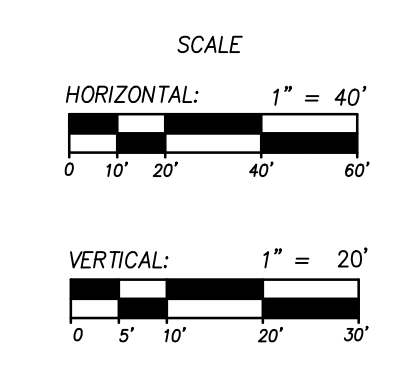
- GRADING GENERAL NOTES:**
- SEE SHEET C500 FOR PLAN AND PROFILE OF ROAD.
  - SITE GRADING SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND REPLACING ALL SOFT, YIELDING OR UNSUITABLE MATERIALS AND REPLACING THEM WITH SUITABLE MATERIALS. ALL EXCAVATED OR FILLED AREAS SHALL BE COMPACTED TO 95% OF MODIFIED PROCTOR MAXIMUM DENSITY PER ASTM TEST D-1557. MOISTURE CONTENT AT TIME OF PLACEMENT SHALL NOT EXCEED 2% ABOVE NOR 3% BELOW OPTIMUM. CONTRACTOR SHALL SUBMIT A COMPACTION REPORT PREPARED BY A QUALIFIED REGISTERED GEOTECHNICAL ENGINEER, VERIFYING THAT ALL FILLED AREAS AND SUBGRADE AREAS TO BE PAVED HAVE BEEN COMPACTED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS.
  - CONTRACTOR SHALL BECOME FAMILIAR WITH EXISTING SOIL CONDITIONS.
  - THE CONTRACTOR IS TO USE BEST MANAGEMENT PRACTICES FOR PROVIDING EROSION CONTROL AND DUST SUPPRESSION FOR CONSTRUCTION OF THIS PROJECT.
  - EXISTING UNDERGROUND UTILITIES AND IMPROVEMENTS ARE SHOWN IN THEIR APPROXIMATE LOCATIONS BASED UPON RECORD INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF PLANS. LOCATIONS MAY NOT HAVE BEEN VERIFIED IN THE FIELD AND NO GUARANTEE IS MADE AS TO ACCURACY OR COMPLETENESS OF THE INFORMATION SHOWN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXISTENCE AND LOCATION OF THOSE UTILITIES SHOWN ON THESE PLANS OR INDICATED IN THE FIELD BY LOCATING SERVICES. ANY ADDITIONAL COSTS INCURRED AS A RESULT OF CONTRACTOR'S FAILURE TO VERIFY LOCATIONS OF EXISTING UTILITIES PRIOR TO BEGINNING OF CONSTRUCTION IN THEIR VICINITY SHALL BE BORNE BY THE CONTRACTOR AND ASSUMED INCLUDED IN THE CONTRACT.
  - LOCATIONS OF ALL UNDERGROUND UTILITIES SHOWN ARE APPROXIMATE. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE CAUSED TO EXISTING UTILITIES AND UTILITY STRUCTURES THAT ARE TO REMAIN.
  - ALL SURFACE IMPROVEMENTS DISTURBED BY CONSTRUCTION SHALL BE RESTORED OR REPLACED, INCLUDING TREES, DECORATIVE SHRUBS, SOD, FENCES, WALLS AND STRUCTURES, WHETHER OR NOT THEY ARE SPECIFICALLY SHOWN ON THE CONTRACT DOCUMENTS.

**ABBREVIATIONS:**

BS	BOTTOM OF STAIRS
BW	BOTTOM OF WALL
EX	EXISTING GRADE
EP	EDGE OF PAVEMENT
FFE	FINISHED FLOOR ELEVATION
FG	FINISHED GRADE
GB	GRADE BREAK
MA	MATCH
SW	EDGE OF SIDEWALK
TBC	TOP BACK OF CURB
TOA	TOP OF ASPHALT
TS	TOP OF STAIRS
TW	TOP OF WALL

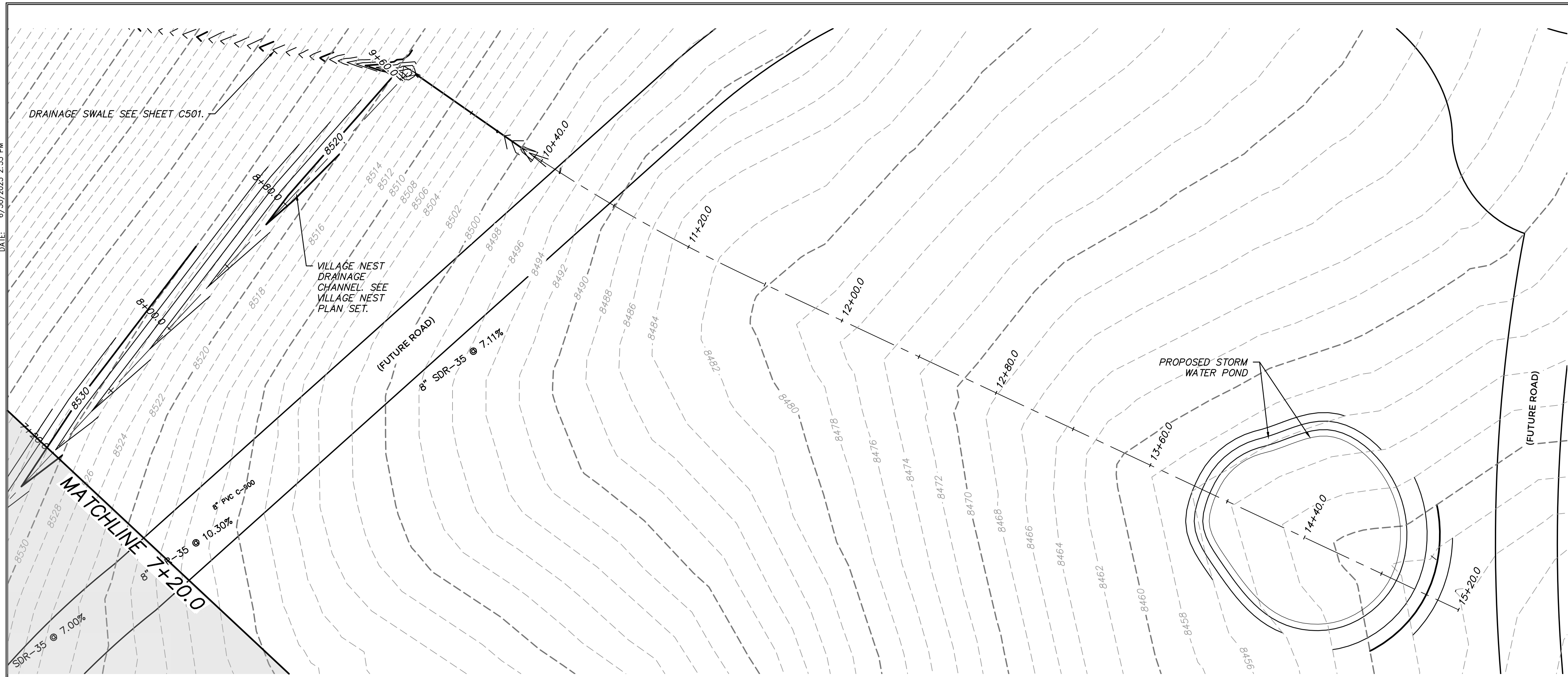
**LEGEND:**

- - - - -	EXISTING ELEVATION CONTOURS
- - - - -	EXISTING GRADE
- - - - -	PROPOSED ELEVATION CONTOURS
- - - - -	PROPOSED GRADE



DATE: 6/30/2023 2:51 PM

PATH: m:\s\80793\cadd\22-126 - ewf\cadd\stormwater conveyance plan and profile.dwg



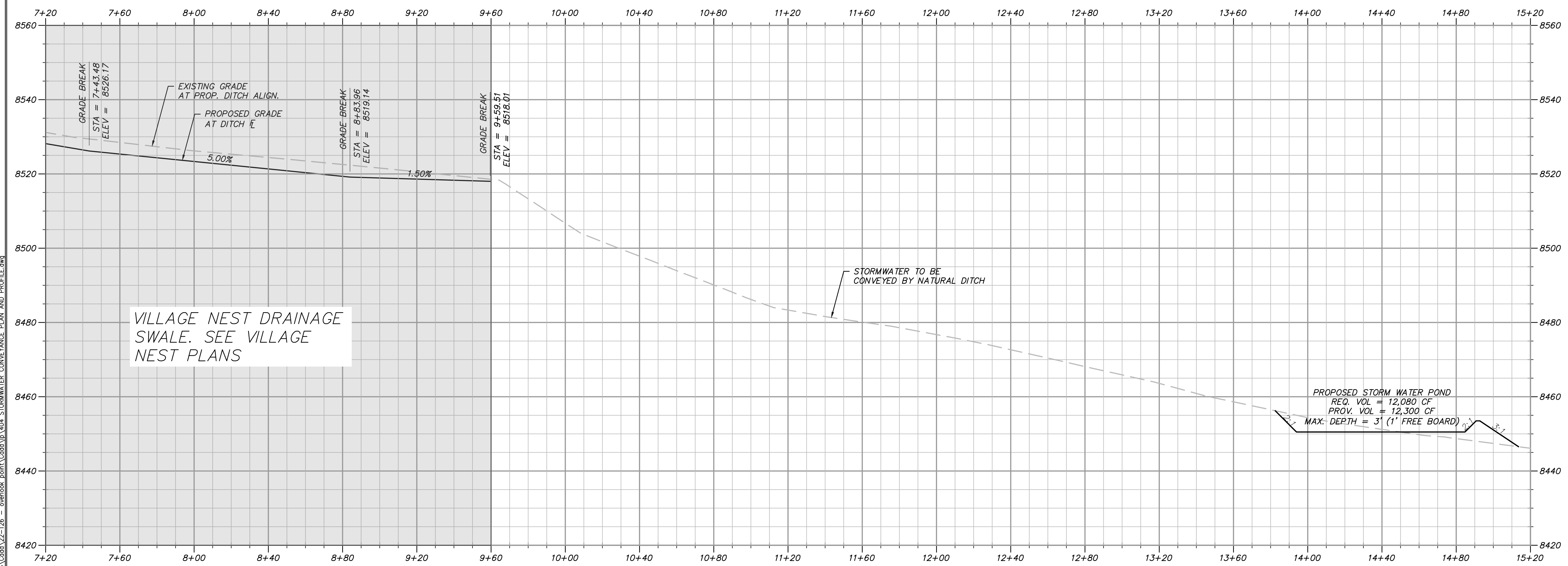
**GRADING GENERAL NOTES:**

1. SITE GRADING SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND REPLACING ALL SOFT, YIELDING OR UNSUITABLE MATERIALS AND REPLACING THEM WITH SUITABLE MATERIALS. ALL EXCAVATED OR FILLED AREAS SHALL BE COMPACTED TO 95% OF MODIFIED PROCTOR MAXIMUM DENSITY PER ASTM TEST D-1557. MOISTURE CONTENT AT TIME OF PLACEMENT SHALL NOT EXCEED 2% ABOVE NOR 3% BELOW OPTIMUM. CONTRACTOR SHALL SUBMIT A COMPACTION REPORT PREPARED BY A QUALIFIED REGISTERED GEOTECHNICAL ENGINEER VERIFYING THAT ALL FILLED AREAS AND SUBGRADE AREAS TO BE PAVED HAVE BEEN COMPACTED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS.
2. CONTRACTOR SHALL BECOME FAMILIAR WITH EXISTING SOIL CONDITIONS.
3. THE CONTRACTOR IS TO USE BEST MANAGEMENT PRACTICES FOR PROVIDING EROSION CONTROL AND DUST SUPPRESSION FOR CONSTRUCTION OF THIS PROJECT.
4. EXISTING UNDERGROUND UTILITIES AND IMPROVEMENTS ARE SHOWN IN THEIR APPROXIMATE LOCATIONS BASED UPON RECORD INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF PLANS. LOCATIONS MAY NOT HAVE BEEN VERIFIED IN THE FIELD AND NO GUARANTEE IS MADE AS TO ACCURACY OR COMPLETENESS OF THE INFORMATION SHOWN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXISTENCE AND LOCATION OF THOSE UTILITIES SHOWN ON THESE PLANS OR INDICATED IN THE FIELD BY LOCATING SERVICES. ANY ADDITIONAL COSTS INCURRED AS A RESULT OF CONTRACTOR'S FAILURE TO VERIFY LOCATIONS OF EXISTING UTILITIES PRIOR TO BEGINNING OF CONSTRUCTION IN THEIR VICINITY SHALL BE BORNE BY THE CONTRACTOR AND ASSUMED INCLUDED IN THE CONTRACT.
5. LOCATIONS OF ALL UNDERGROUND UTILITIES SHOWN ARE APPROXIMATE. CONTRACTOR IS TO VERIFY CONNECTION POINTS WITH EXISTING UTILITIES. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE CAUSED TO EXISTING UTILITIES AND UTILITY STRUCTURES THAT ARE TO REMAIN.
6. ALL SURFACE IMPROVEMENTS DISTURBED BY CONSTRUCTION SHALL BE RESTORED OR REPLACED, INCLUDING TREES, DECORATIVE SHRUBS, SOD, FENCES, WALLS AND STRUCTURES, WHETHER OR NOT THEY ARE SPECIFICALLY SHOWN ON THE CONTRACT DOCUMENTS.

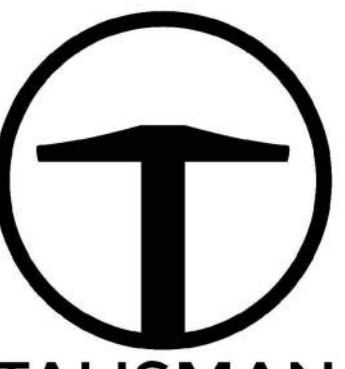
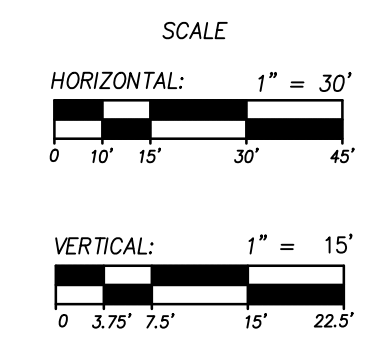
- - - - - EXISTING ELEVATION CONTOURS  
 - - - - - EXISTING ELEVATION CONTOURS  
 - - - - - EXISTING ELEVATION CONTOURS  
 - - - - - PROPOSED ELEVATION CONTOURS

**STORMWATER CONVEYANCE DITCH AND POND**

NOTE: FOR REFERENCE ONLY, TO BE BUILT AS PART OF VILLAGE NEST IMPROVEMENT PLANS.



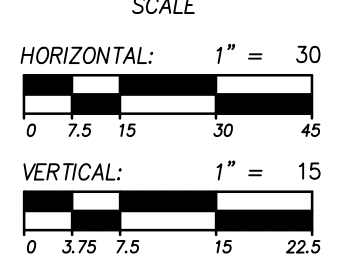
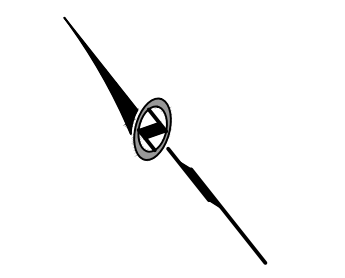
PROFILE VIEW



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 SUITE 200  
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NO.	BY	DATE	REVISIONS

**POWDER POINT**  
 POWDER MOUNTAIN, UTAH  
**STORMWATER CONVEYANCE PLAN AND PROFILE**  
 TCC JOB NUMBER: 22-126      DATE: 06.29.2023

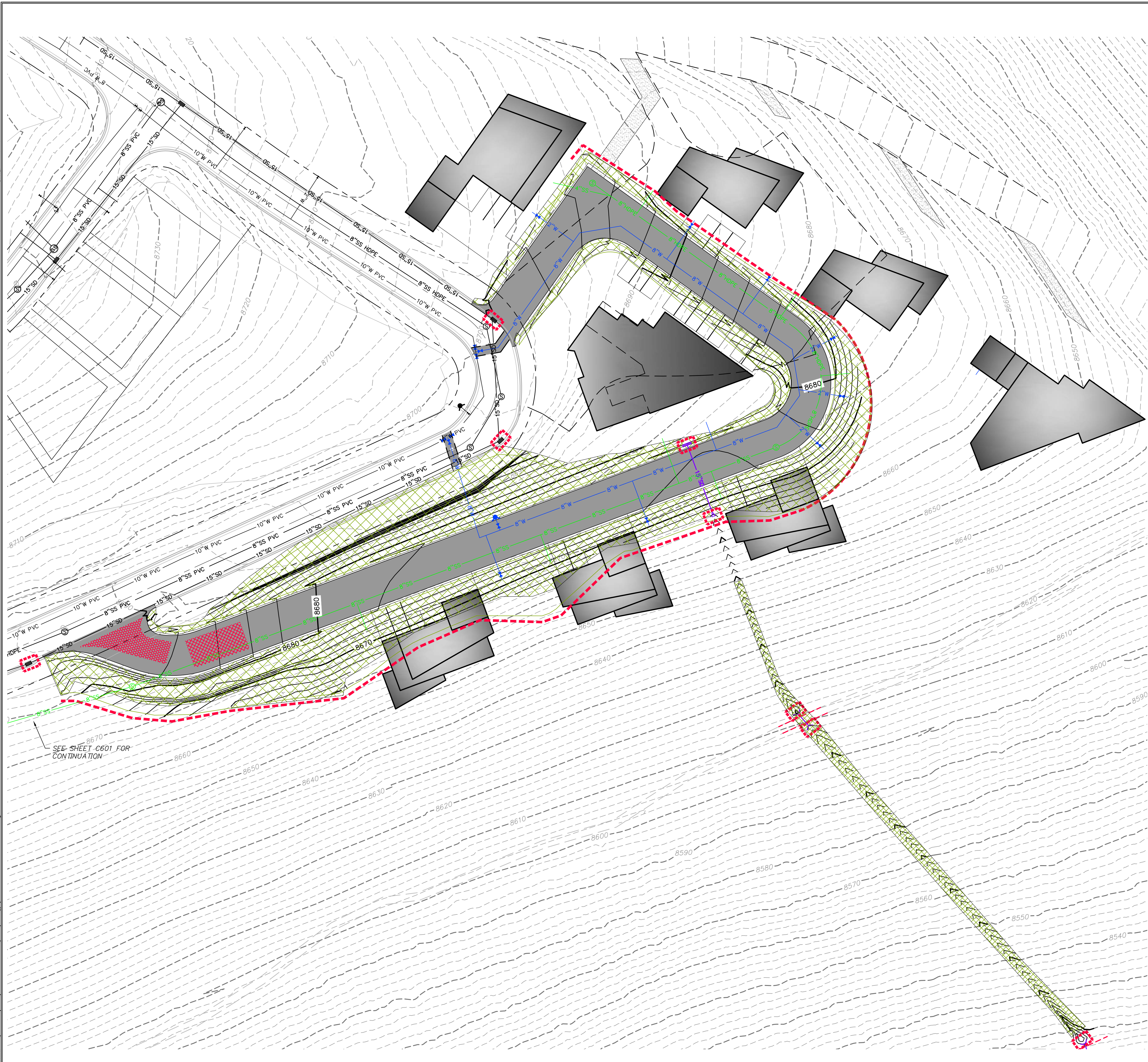


SHEET NUMBER  
**C503**  
 9 OF 16



DATE: 12/22/2022

PATH: m:\16180793\Cadd\22-126 - ewerick.meh\cadd\up\600 EROSION CONTROL PLAN.dwg



**SCOPE OF WORK:**

- ① INSTALL INLET PROTECTION IN FORM OF CONCRETE BLOCKS / FILTER CLOTH / GRAVEL OR SILT SACK AT EXISTING AND PROPOSED CATCH BASINS AS SHOWN ON PLAN.
- ② INSTALL EARTH BERM ALONG DOWN GRADIENT LIMITS OF DISTURBANCE AS SHOWN ON PLAN.






**EXPOSED SLOPES:**

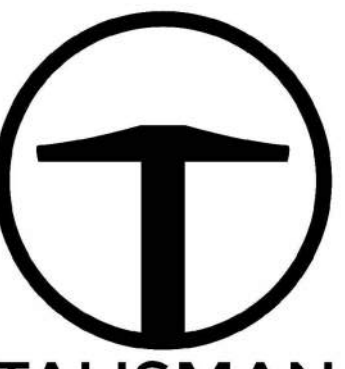
ANY DISTURBED AREAS AND/OR EXPOSED SLOPE THAT WILL REMAIN UNTOUCHED FOR LONGER THAN 14 DAYS MUST BE STABILIZED BY ONE OR MORE OF THE FOLLOWING METHODS:

- 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

UPON COMPLETION OF PROJECT ALL DISTURBED AREAS MUST BE RE-SEEDED PER METHOD A ABOVE.

**LEGEND:**

-  INSTALL EARTH BERM
-  INLET PROTECTION
-  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.

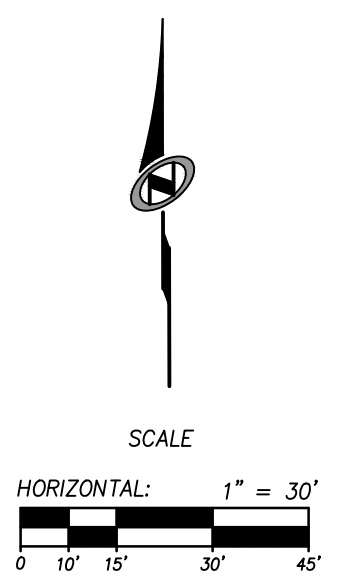


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SUITE 200  
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NO.	DATE	BY	REVISIONS

**POWDER POINT  
POWDER MOUNTAIN, UTAH  
EROSION CONTROL PLAN**

TCC JOB NUMBER: 22-126  
DATE: 06.29.2023

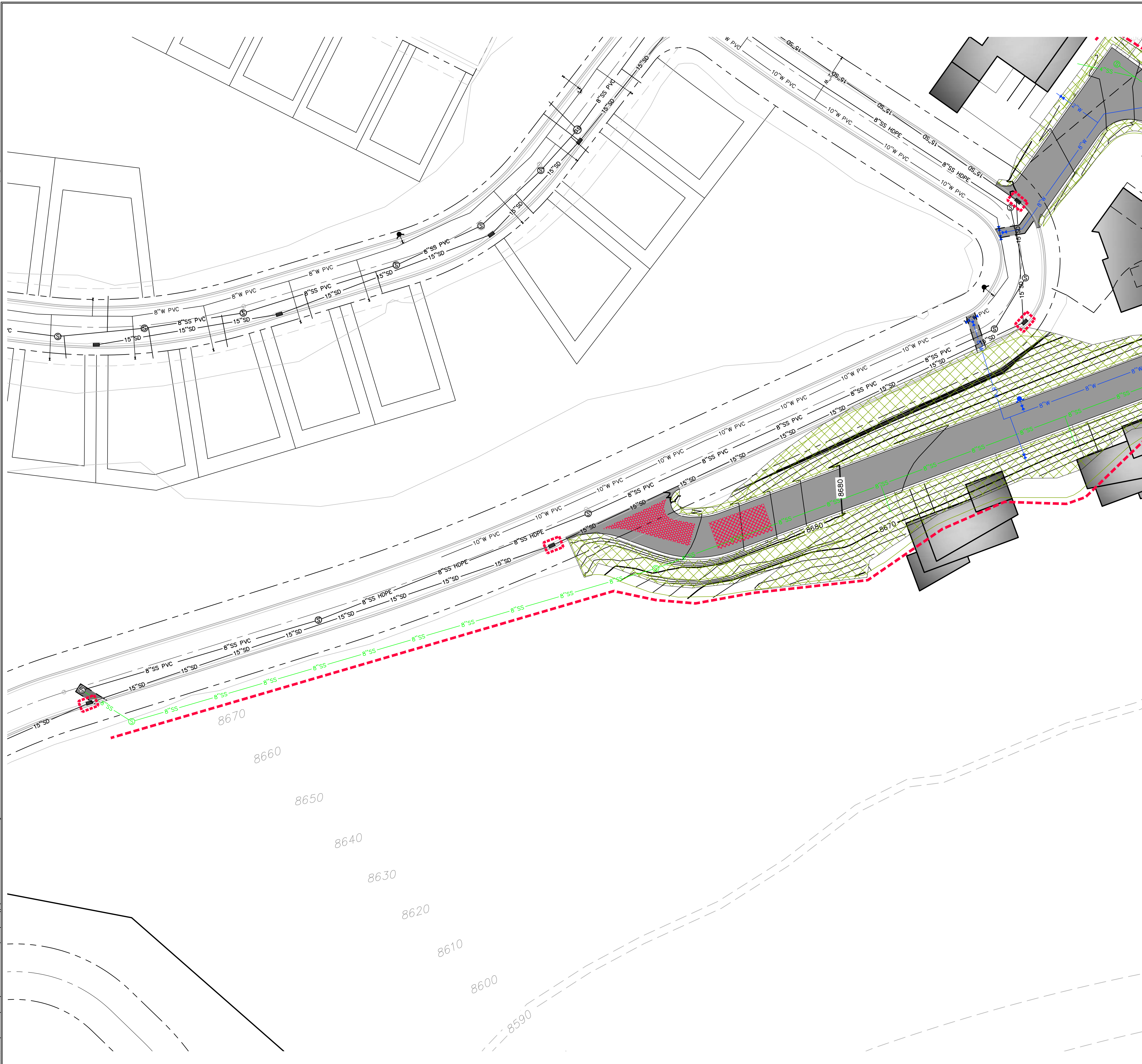


SHEET NUMBER  
**C600**  
11 OF 16



DATE: 12/22/2022

PATH: m:\16180793\cadd\22-126 - ewerisk north\cadd\up\601 EROSION CONTROL PLAN.dwg



**SCOPE OF WORK:**

- ① INSTALL INLET PROTECTION IN FORM OF CONCRETE BLOCKS / FILTER CLOTH / GRAVEL OR SILT SACK AT EXISTING AND PROPOSED CATCH BASINS AS SHOWN ON PLAN.
- ② INSTALL EARTH BERM ALONG DOWN GRADIENT LIMITS OF DISTURBANCE AS SHOWN ON PLAN.

**EXPOSED SLOPES:**

ANY DISTURBED AREAS AND/OR 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

UPON COMPLETION OF PROJECT ALL DISTURBED AREAS MUST BE RE-SEEDED PER METHOD A ABOVE.

**LEGEND:**

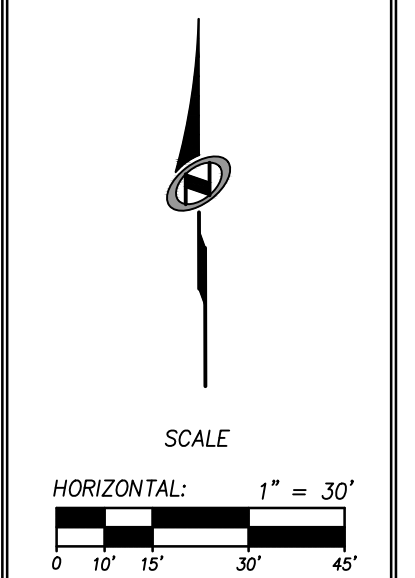
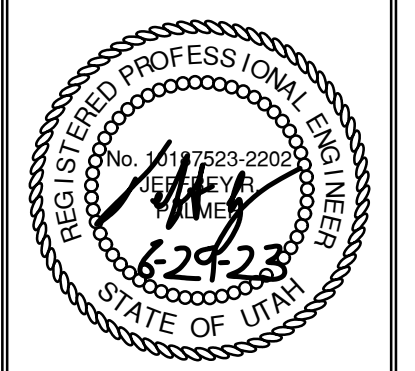
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- INLET PROTECTION
- HATCHING INDICATES SLOPES 3:1 OR STEEPER TO BE SEEDED AND REQUIRING EROSION CONTROL BLANKET.
- INSTALL 15' X 30' VEHICLE WASH DOWN AREA WITH 1"-2.5" COARSE AGGREGATE PLACED A MINIMUM 8" THICK. SUPPLY WATER FOR VEHICLE WASH DOWN.
- STABILIZED CONSTRUCTION ENTRANCE FOR SITE INGRESS/EGRESS. IF ALTERNATE ACCESS POINTS ARE APPROVED BY OWNER, ADDITIONAL STABILIZED CONSTRUCTION ENTRANCES WILL BE REQUIRED.



NO.	DATE	BY	REVISIONS

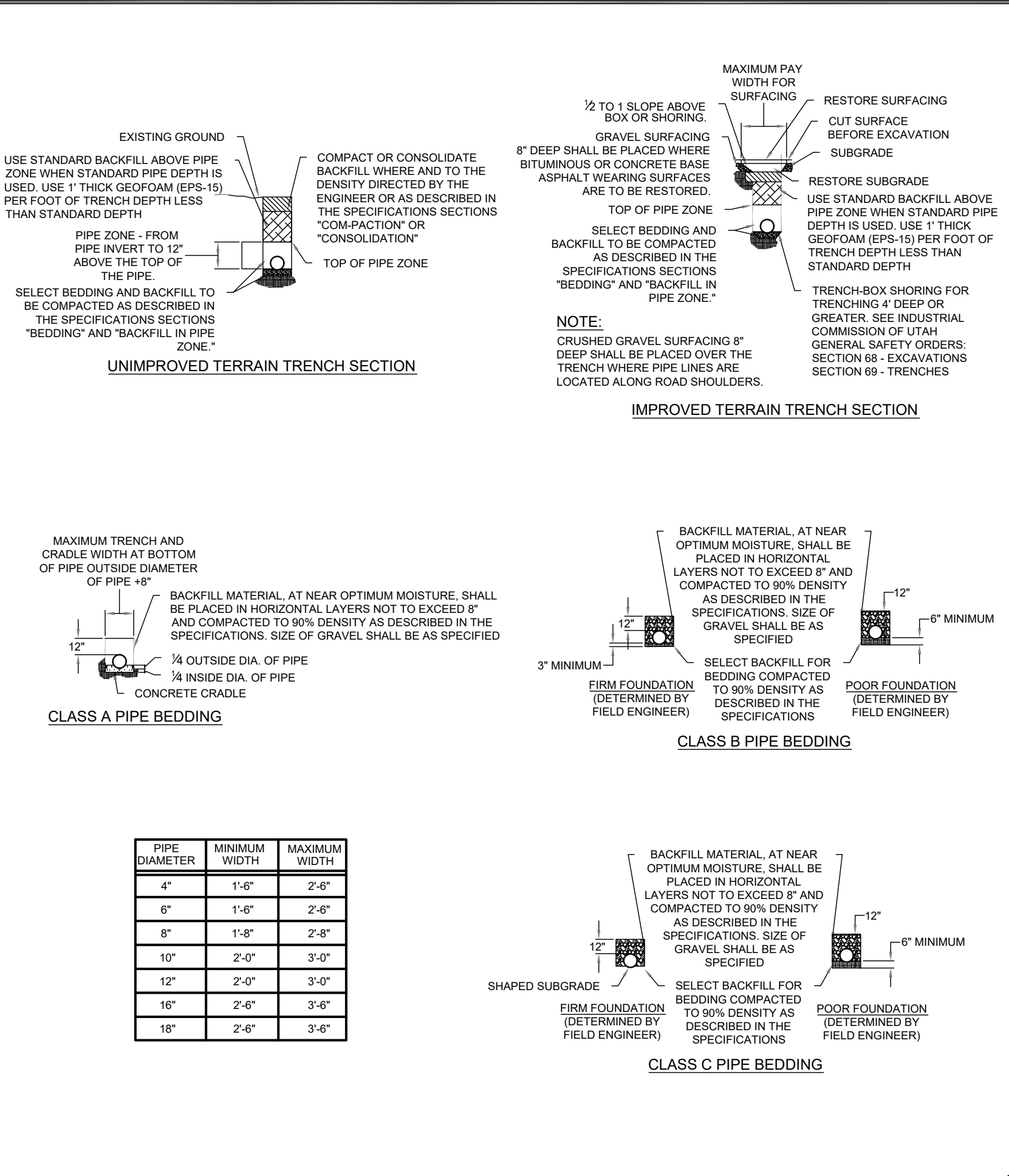
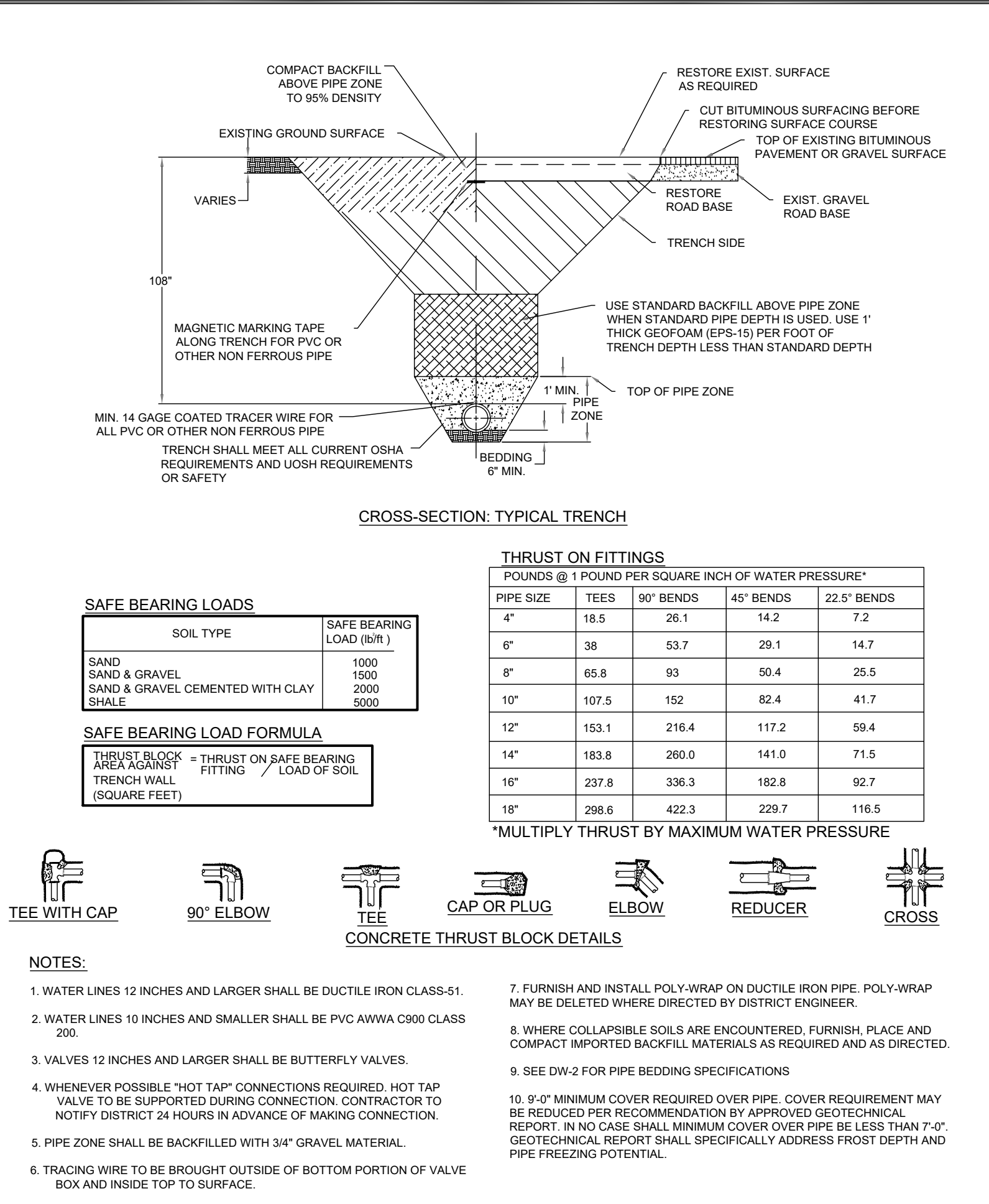
**POWDER POINT  
POWDER MOUNTAIN, UTAH  
OFFSITE EROSION CONTROL PLAN**

TCC JOB NUMBER: 22-126 DATE: 06.29.2023



SHEET NUMBER  
**C601**  
11 OF 16





**WATERLINE TRENCH DETAIL**

DATE: APRIL 2021  
DRAWING NAME: DW-1  
DRAWN BY: BFM/JM  
CHECKED/ APPROVED: [Signature]

GILSON ENGINEERING  
Consulting Engineers & Surveyors  
1240 SOUTH 450 EAST BLDG. C, UNIT 2, SALT LAKE CITY, UT 84103  
PHONE: (801) 571-9414 FAX: (801) 571-9449  
WWW.POWMOUNTAIN.COM

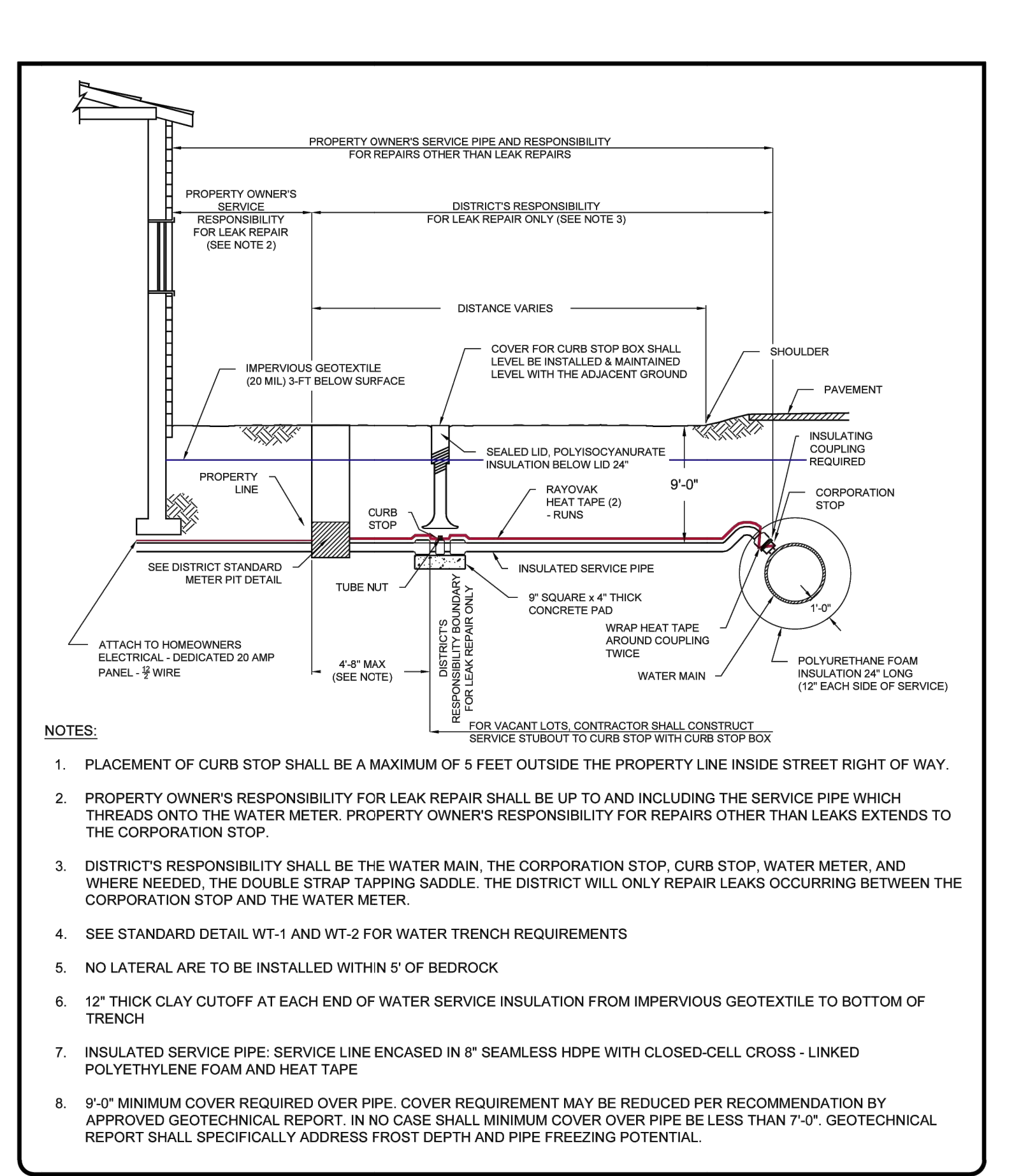
298 24th STREET, SUITE 150, OGDEN, UT 84401  
PHONE: (801) 773-1191  
WWW.POWMOUNTAIN.COM

**PIPE BEDDING SPECIFICATIONS**

DATE: APRIL 2021  
DRAWING NAME: DW-2  
DRAWN BY: BFM/JM  
CHECKED/ APPROVED: [Signature]

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Consulting Engineers & Surveyors  
1240 SOUTH 450 EAST BLDG. C, UNIT 2, SALT LAKE CITY, UT 84103  
PHONE: (801) 571-9414 FAX: (801) 571-9449  
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298 24th STREET, SUITE 150, OGDEN, UT 84401  
PHONE: (801) 773-1191  
WWW.POWMOUNTAIN.COM

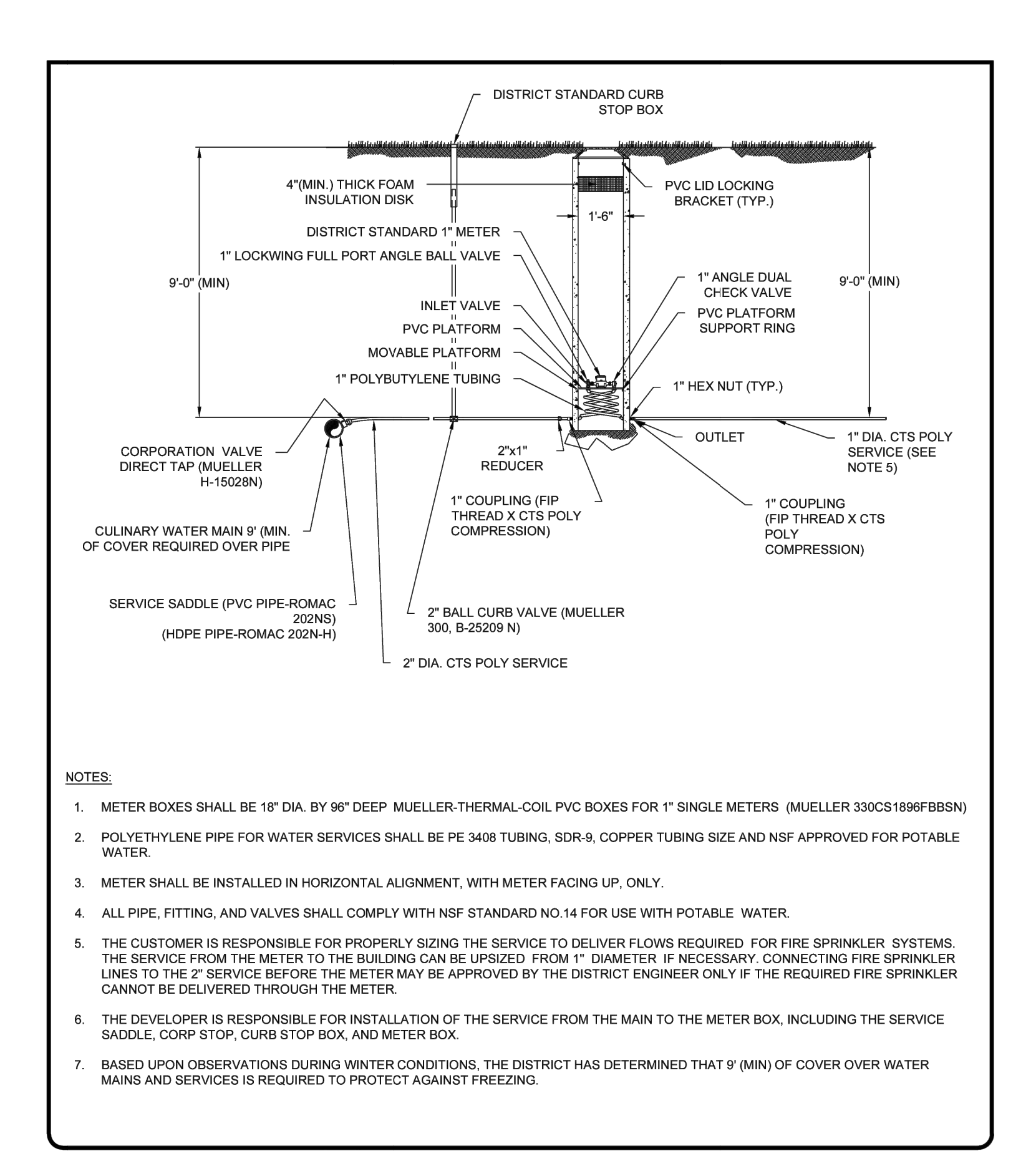


**TYPICAL SMALL DIAMETER WATER SERVICE LINE DETAIL**

DATE: APRIL 2021  
DRAWING NAME: DW-5  
DRAWN BY: BFM/JM  
CHECKED/ APPROVED: [Signature]

GILSON ENGINEERING  
Consulting Engineers & Surveyors  
1240 SOUTH 450 EAST BLDG. C, UNIT 2, SALT LAKE CITY, UT 84103  
PHONE: (801) 571-9414 FAX: (801) 571-9449  
WWW.POWMOUNTAIN.COM

298 24th STREET, SUITE 150, OGDEN, UT 84401  
PHONE: (801) 773-1191  
WWW.POWMOUNTAIN.COM



**TYPICAL METER PIT DETAIL**

DATE: APRIL 2021  
DRAWING NAME: DW-7  
DRAWN BY: BFM/JM  
CHECKED/ APPROVED: [Signature]

GILSON ENGINEERING  
Consulting Engineers & Surveyors  
1240 SOUTH 450 EAST BLDG. C, UNIT 2, SALT LAKE CITY, UT 84103  
PHONE: (801) 571-9414 FAX: (801) 571-9449  
WWW.POWMOUNTAIN.COM

298 24th STREET, SUITE 150, OGDEN, UT 84401  
PHONE: (801) 773-1191  
WWW.POWMOUNTAIN.COM

**Catch basin**

**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 A615.

**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 "warp line" in the gutter flow-line and the top of the grate at the curb face opening.  
C. Concrete Placement: APWA Section 03 30 10. Provide 1/2-inch radius edges. Apply a broom finish. Apply a curing agent.  
D. 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.

**315.2**

**DOUBLE GRATE**

**PLAN**

FRAME AND GRATE (PLAN 308). (4) "L" BARS. (2) BARS (PLAN 206). CONSTRUCTION JOINT. WARP LINE. 45°. 12". 8". #4 BAR.

**"L" BAR DETAIL**

FLOW LINE DROP (NOTE 3B). Y + 2" MIN. CURB HEIGHT. INVERT OF GUTTER. BOTTOM OF GUTTER. DO NOT USE "L" BARS FOR FRAME SUPPORT. # 4 TIEBAR. 1 1/2". 3". 3". BACKFILL. BASE COURSE. 6" MIN. 2'-11 1/2". 9". 2'-11 1/2". 6". 7'-8".

**SECTION A-A**

4" MIN. CURB OPENING (NOTE 3B). MATCH BACK OF HOOD WITH INSIDE FACE OF BOX. "L" BAR. "L" BAR. "L" BAR. "L" BAR. No. 4 BAR @ 12" O.C. EACH WAY ALL AROUND. 5'-0" MAX. 6'-1/2". 12" MIN. 3'-0".

**SECTION B-B**

**SECTION C-C**

**315.2**

**Catch basin**

Plan 315.2  
September 2010

**APWA**  
Utah Chapter

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SAFE DIGGING PRACTICES

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

REGISTERED PROFESSIONAL ENGINEER  
No. 12933-2206  
4/13/23  
STATE OF UTAH

TCC JOB NUMBER: [Blank]

SHEET NUMBER  
**C700**

12 OF 16

DATE: 12/22/2022

**Trench backfill**

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

**Pipe zone backfill**

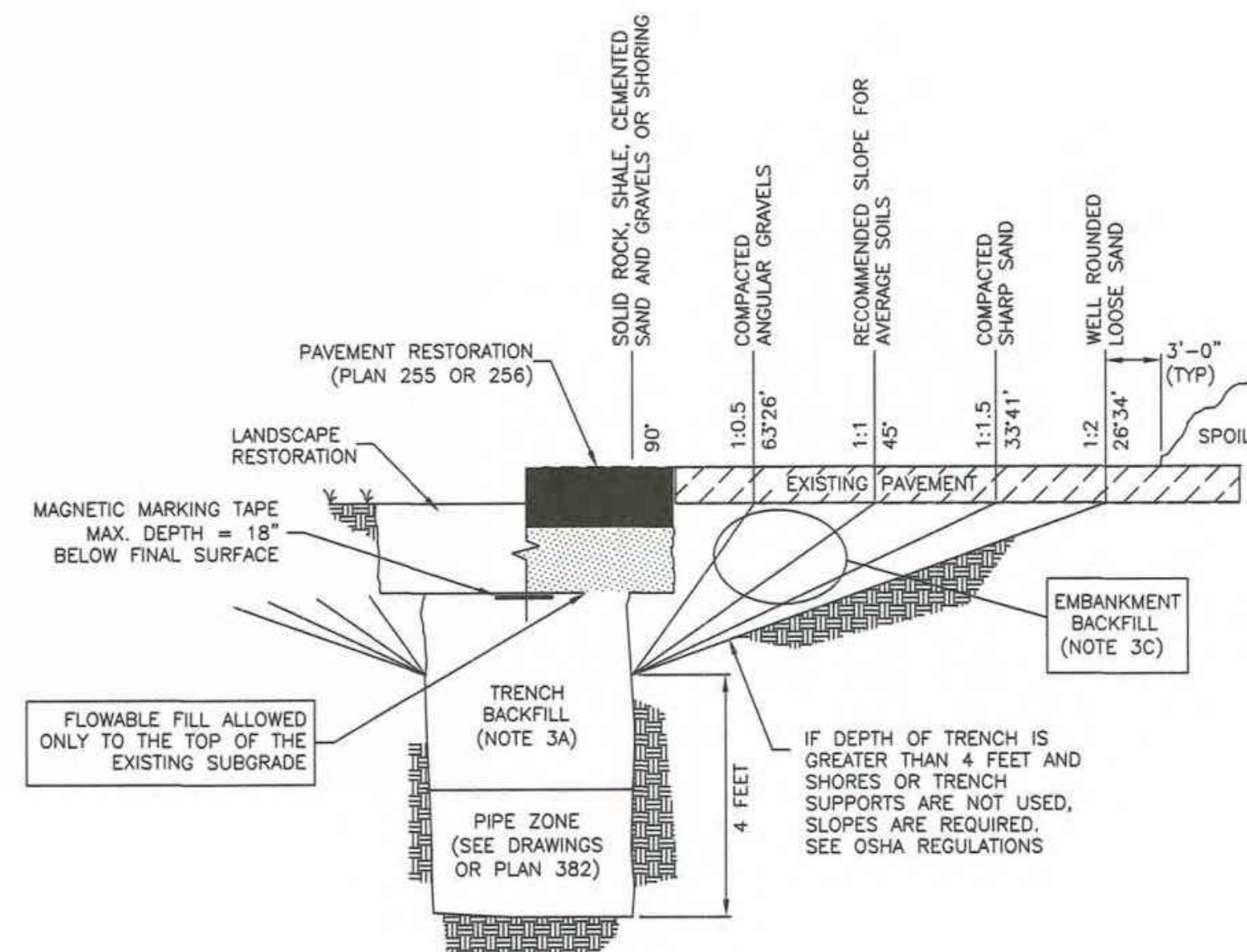
1. **GENERAL**  
A. Install the pipe in the center of the trench or no closer than 6-inches from the wall of the pipe to the wall of the trench.
2. **PRODUCTS**  
A. Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel as a base course without ENGINEER's permission.  
B. Backfill: Common fill, APWA Section 31 05 13. Maximum particle size 2-inches.  
C. Concrete: APWA Section 03 30 04.  
D. Flowable Fill: Target is 60 psi in 28 days with 90 psi maximum in 28 days, APWA Section 31 05 15. It must flow easily requiring no vibration for consolidation.  
E. Stabilization-Separation Geotextile: Moderate or high at CONTRACTOR's choice, APWA Section 31 05 19.
3. **EXECUTION**  
A. Excavate the Pipe Zone: Width is measured at the pipe spring line and includes any necessary sheathing. Provide width recommended by pipe manufacturer. Follow manufacturer's recommendations when using trench boxes.  
B. Foundation Stabilization: Get ENGINEER's permission before installing common fill. Vibrate to stabilize. Installation of stabilization-separation geotextile will be required to separate backfill material and native subgrade materials if common fill cannot provide a working surface or prevent soils migration.  
C. Bedding: Follow APWA Section 33 05 20 requirements and the following provisions.  
1) Furnish untreated base course material unless specified otherwise by pipe manufacturer.  
2) Maximum lift thickness is 8-inches.  
3) Bedding immediately under the pipe should not be compacted, but loosely placed.  
4) Compaction is 95 percent or greater relative to a modified proctor density, APWA Section 31 23 26.  
5) When using concrete, provide at least Class 2,000, APWA Section 03 30 04.  
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.

**Pipe outfall**

1. **GENERAL**  
A. Round concrete pipe application.  
B. Additional requirements are specified in APWA Section 33 05 02.
2. **PRODUCTS**  
A. Use the same quality of precast end section as the pipe.  
B. Use the joint material and connection that is the same as the joints in the pipeline.
3. **EXECUTION**  
A. General dimensions and geometric shapes may vary from manufacturer to manufacturer.  
B. Steel reinforcement is not required in the concrete end section shown.  
C. Provide joint restraint connectors if required by ENGINEER.

381

NARRATIVE: THIS PLAN SHOWS VARIOUS SLOPES RECOMMENDED FOR VARIOUS TYPES OF SLOPE STABILITY PROBLEMS. THE VERTICAL TEXT INDICATES VARIOUS MATERIALS THAT MAY BE ENCOUNTERED. THE SERVICES OF A PROFESSIONAL SOILS ENGINEER SHOULD BE USED TO VERIFY SLOPE STABILITY.

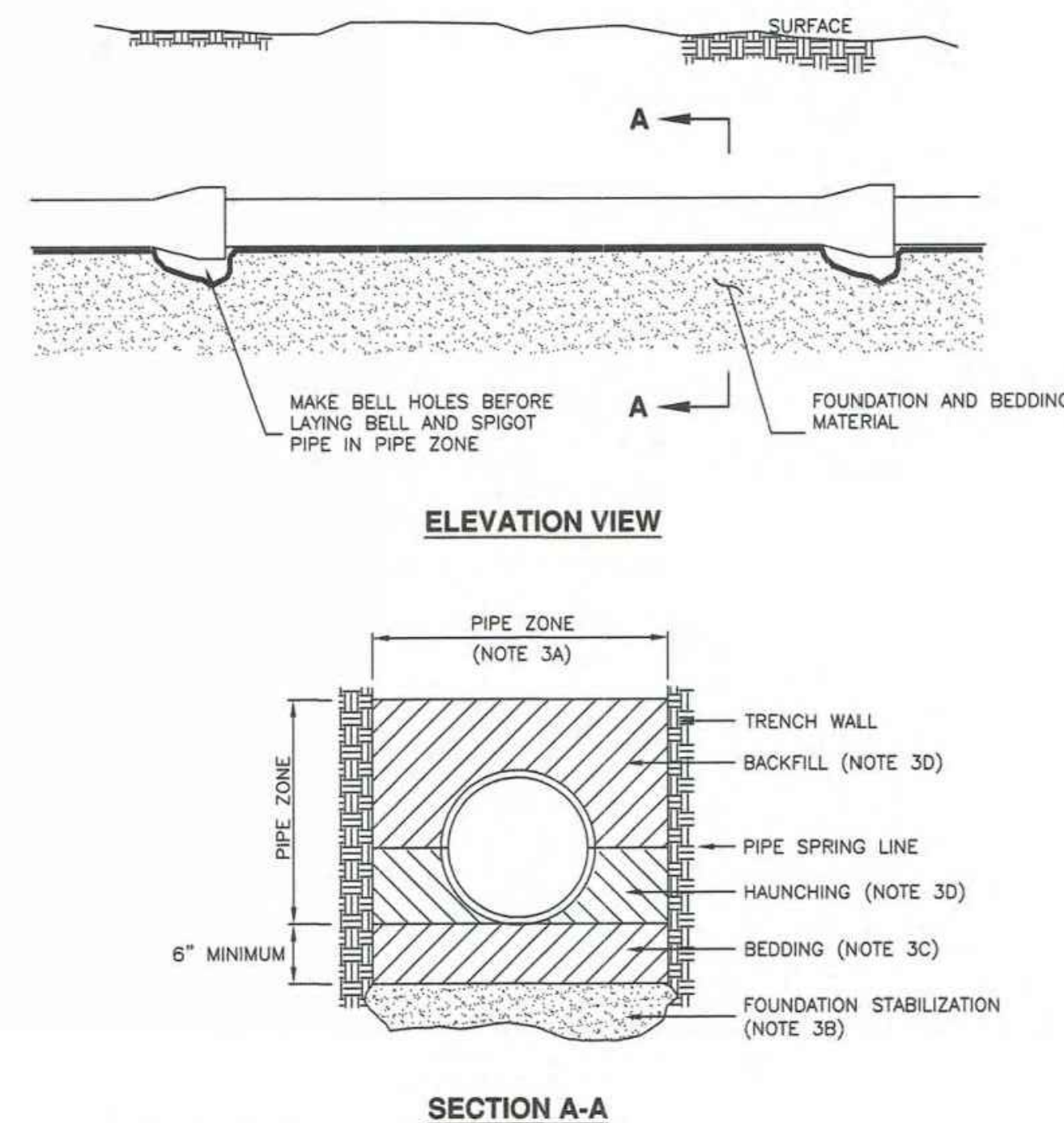


Trench backfill

Plan 381

July 2016

382



**INSTALLATION**  
 CONCRETE PIPE: FOLLOW ASTM C 1479  
 \*STANDARD PRACTICE FOR INSTALLATION OF PRECAST CONCRETE SEWER, STORM DRAIN, AND CULVERT PIPE USING STANDARD INSTALLATIONS.  
 PLASTIC PIPE: FOLLOW ASTM D 2321  
 \*STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY-FLOW APPLICATIONS\*  
 CORRUGATED METAL PIPE: FOLLOW ASTM A 798  
 \*STANDARD PRACTICE FOR INSTALLING FACTORY-MADE CORRUGATED STEEL PIPE FOR SEWERS AND OTHER APPLICATIONS.  
 VITRIFIED CLAY PIPE: FOLLOW ASTM C 12.  
 \*STANDARD RECOMMENDED PRACTICE FOR INSTALLING VITRIFIED CLAY PIPE LINES.

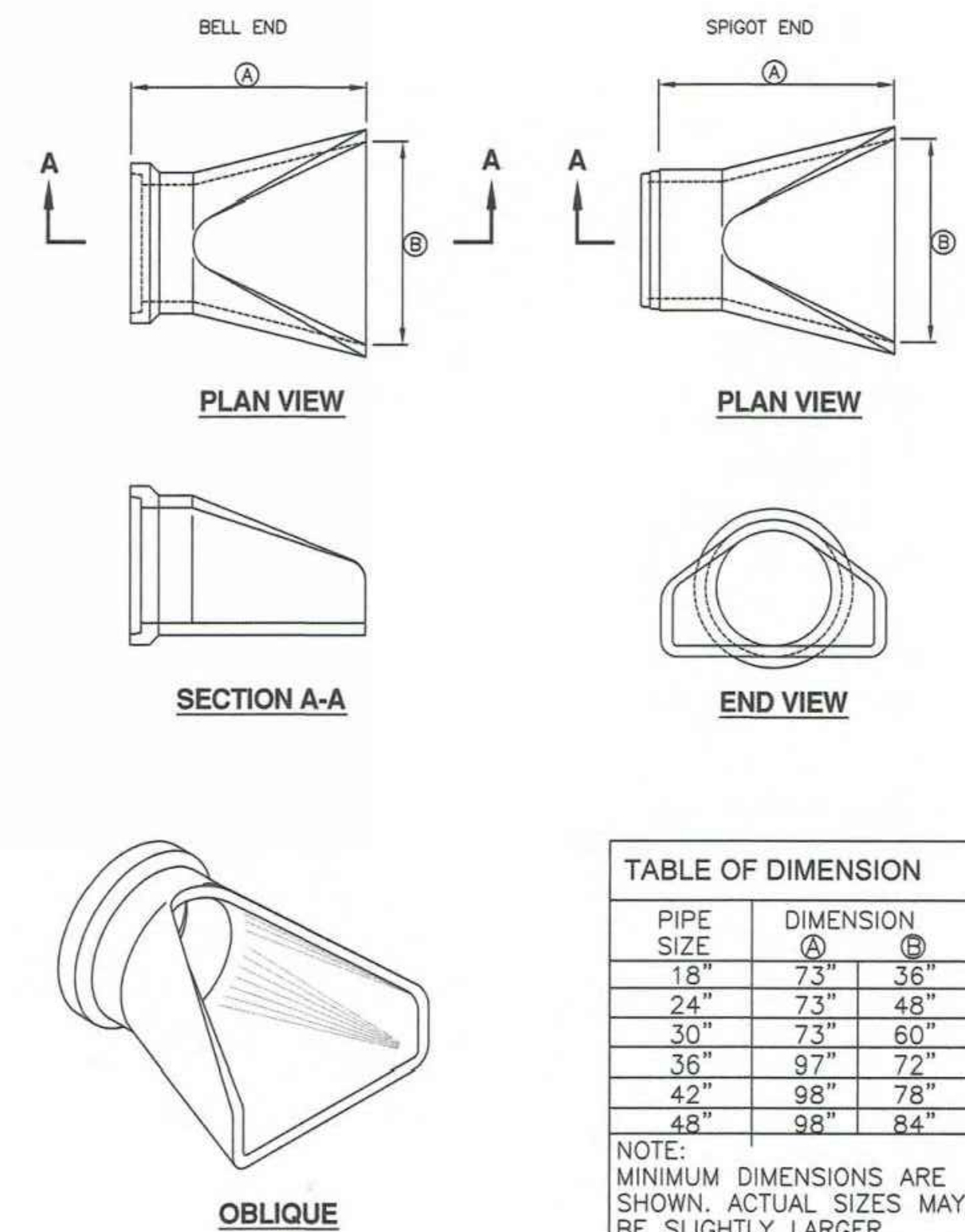
Pipe zone backfill

Plan 382

January 2011

323.1

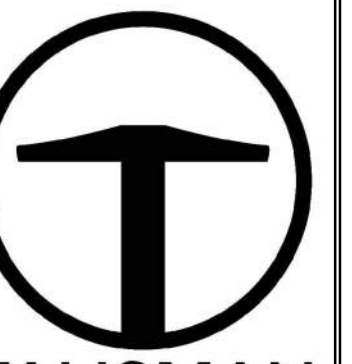
**ROUND WITH FLARE**



Pipe outfall

Plan 323.1

November 2010



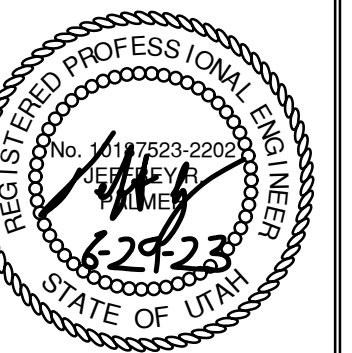
**TALISMAN**  
 CIVIL CONSULTANTS  
 1588 SOUTH MAIN STREET  
 SUITE 200  
 SALT LAKE CITY, UT 84115  
 801.743.1300

NO.	BY	DATE	REVISIONS

DATE: 06.29.2023

**POWDER POINT  
 POWDER MOUNTAIN, UTAH  
 DETAILS**

TCC JOB NUMBER: 22-126

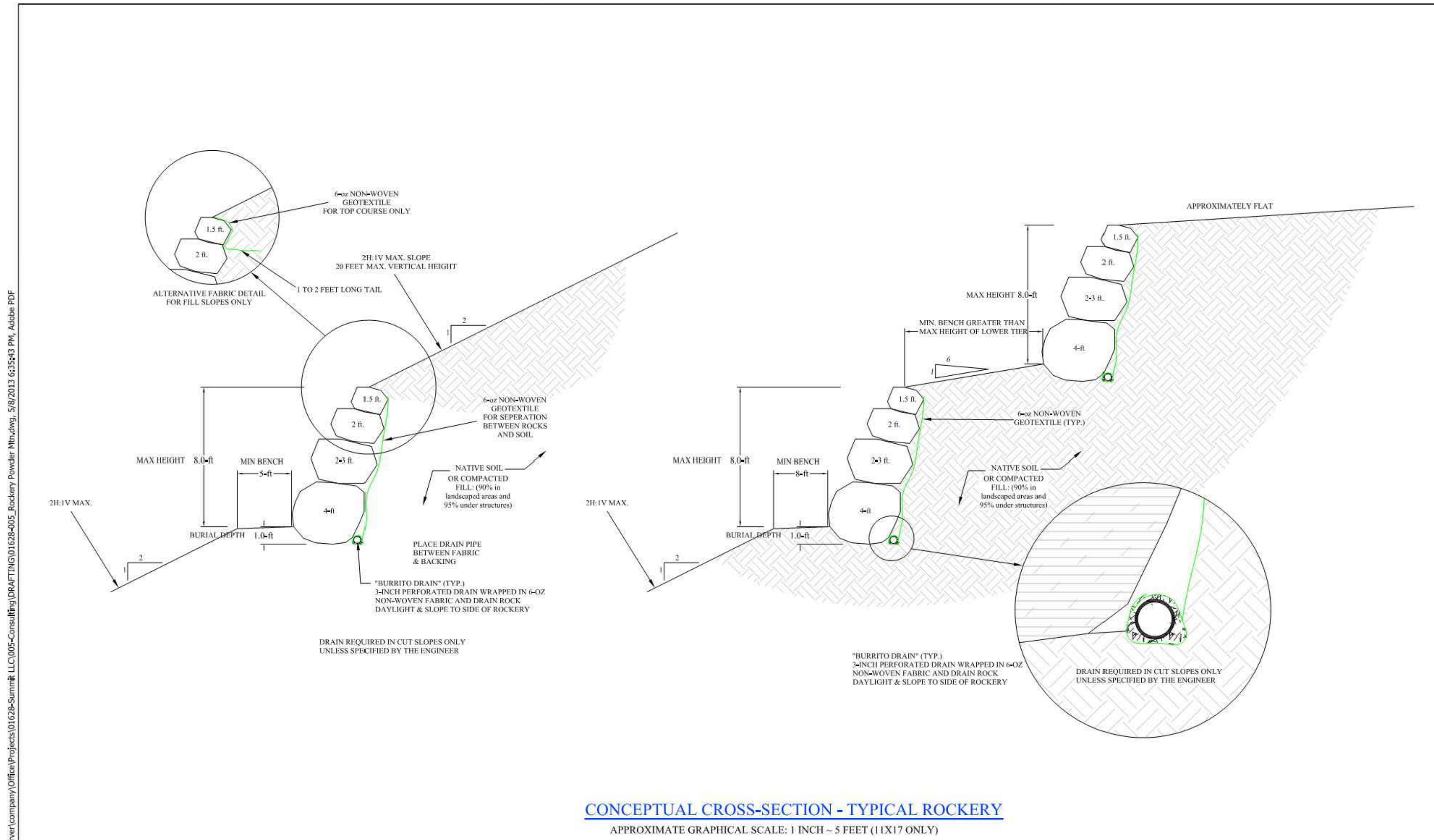


SHEET NUMBER

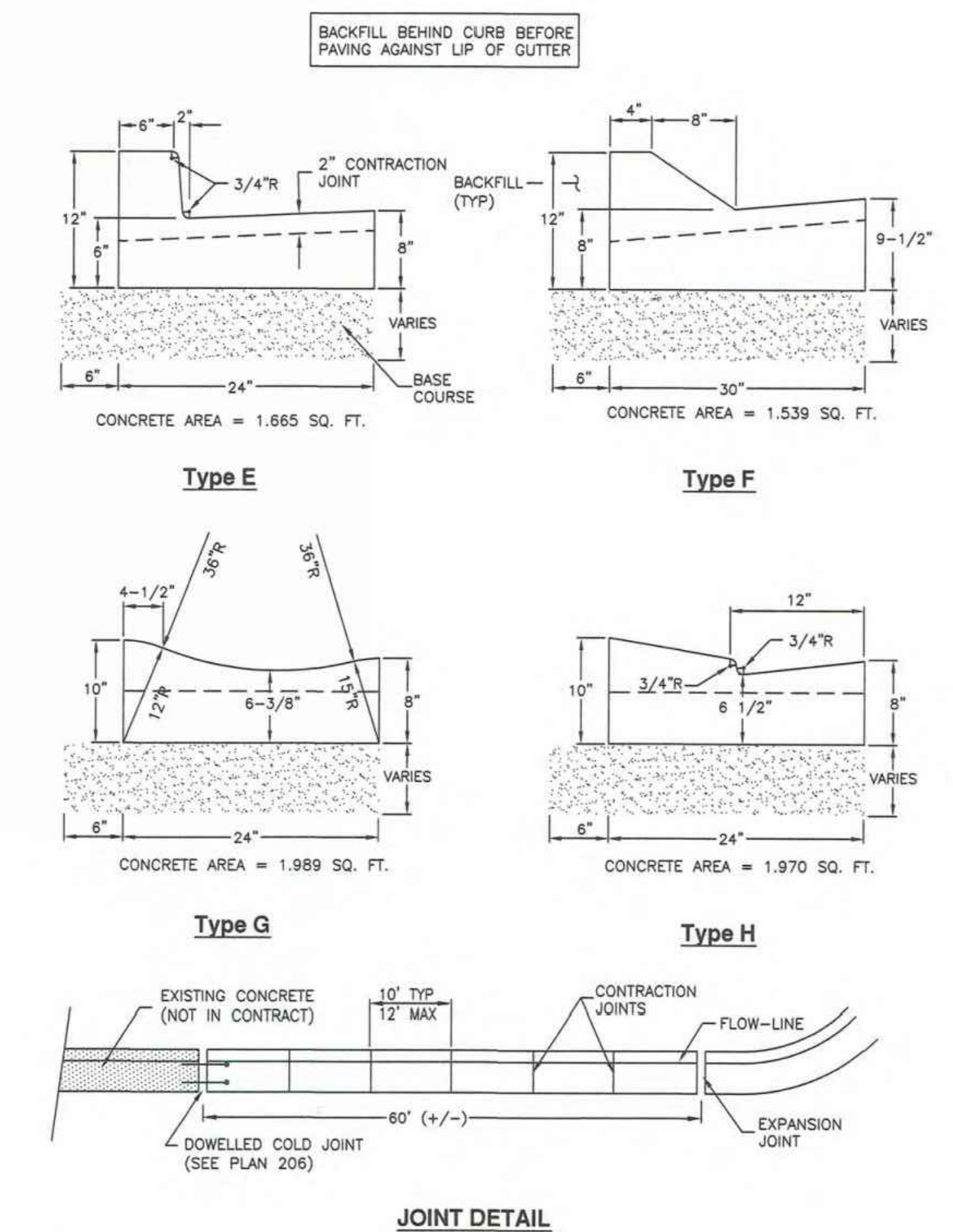
**C701**

13 OF 16





**CONCEPTUAL CROSS-SECTION - TYPICAL ROCKERY**  
APPROXIMATE GRAPHICAL SCALE: 1 INCH = 5 FEET (1:1X17 ONLY)



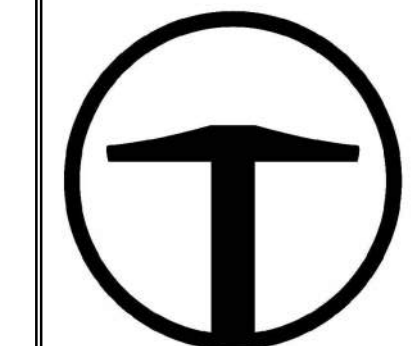
**JOINT DETAIL**  
Curb and gutter

Plan 205.2  
April 2011

MARK	REVISIONS	DATE	BY	CHK

**IGES** 12429 SOUTH 300 EAST, STE. 100  
DRAPER, UTAH 84020  
(801) 748-4044 FAX: (801) 748-4045

**ADWA** Utah Chapter  
DESIGNED BY: DAG MAY 07, 2013 PLOT SCALE  
DRAWN BY: DAG MAY 07, 2013 1=1  
CHECKED BY: KAH MAY 08, 2013 DWG SCALE  
APPROVED BY: DAG MAY 07, 2013 1"=5'  
IGES PROJECT NO. SHEET NO. A-1 (REV. 01628-005) N/A



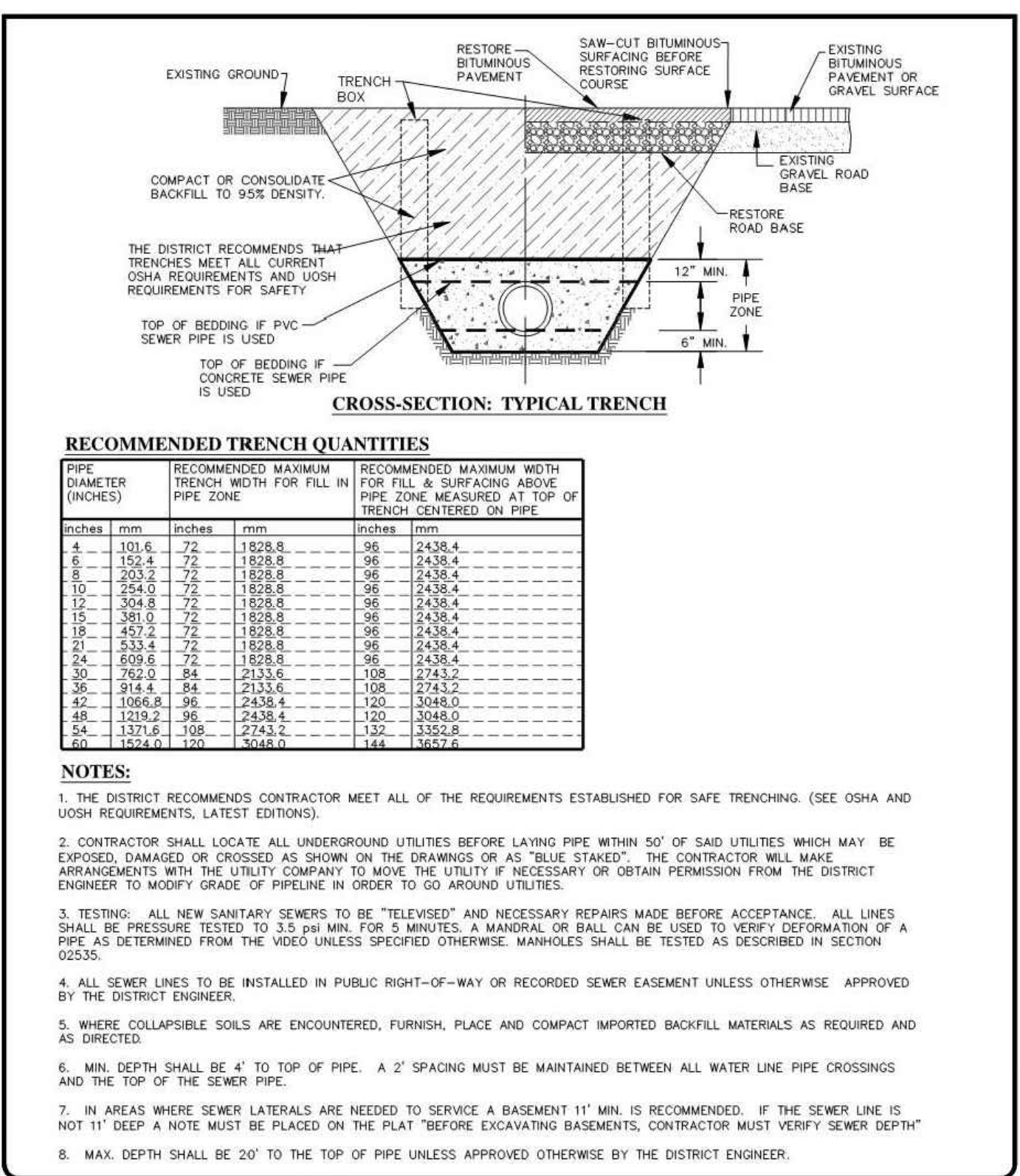
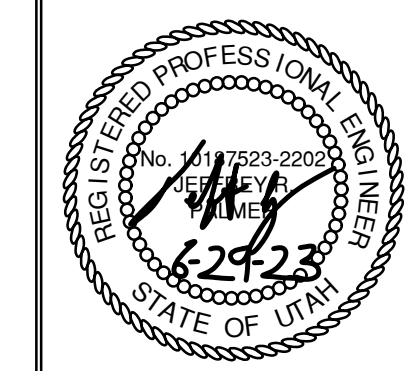
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801.743.1300

NO.	DATE	BY	REVISIONS

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**POWDER POINT  
POWDER MOUNTAIN, UTAH  
DETAILS**

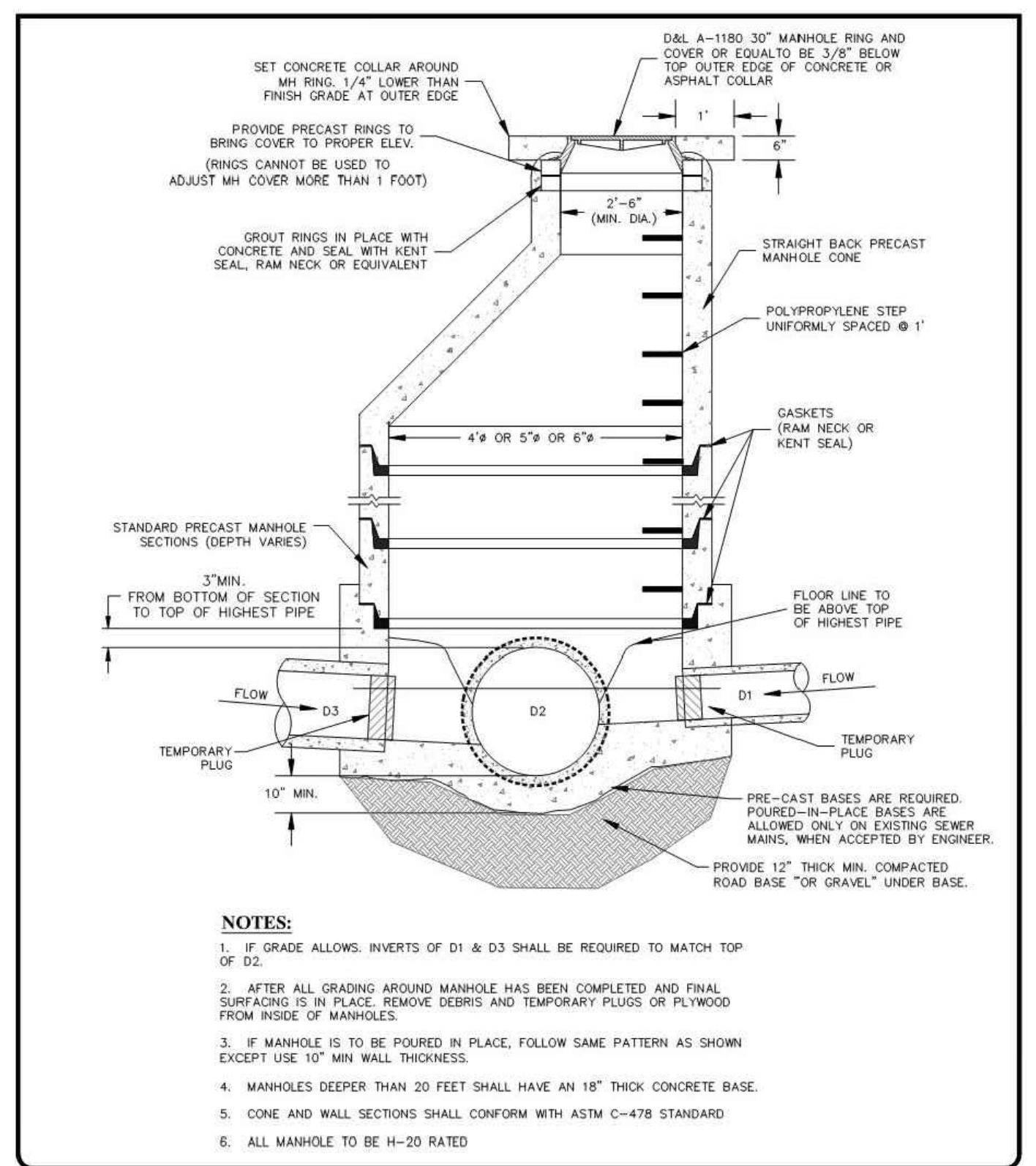
TCC JOB NUMBER: 22-126



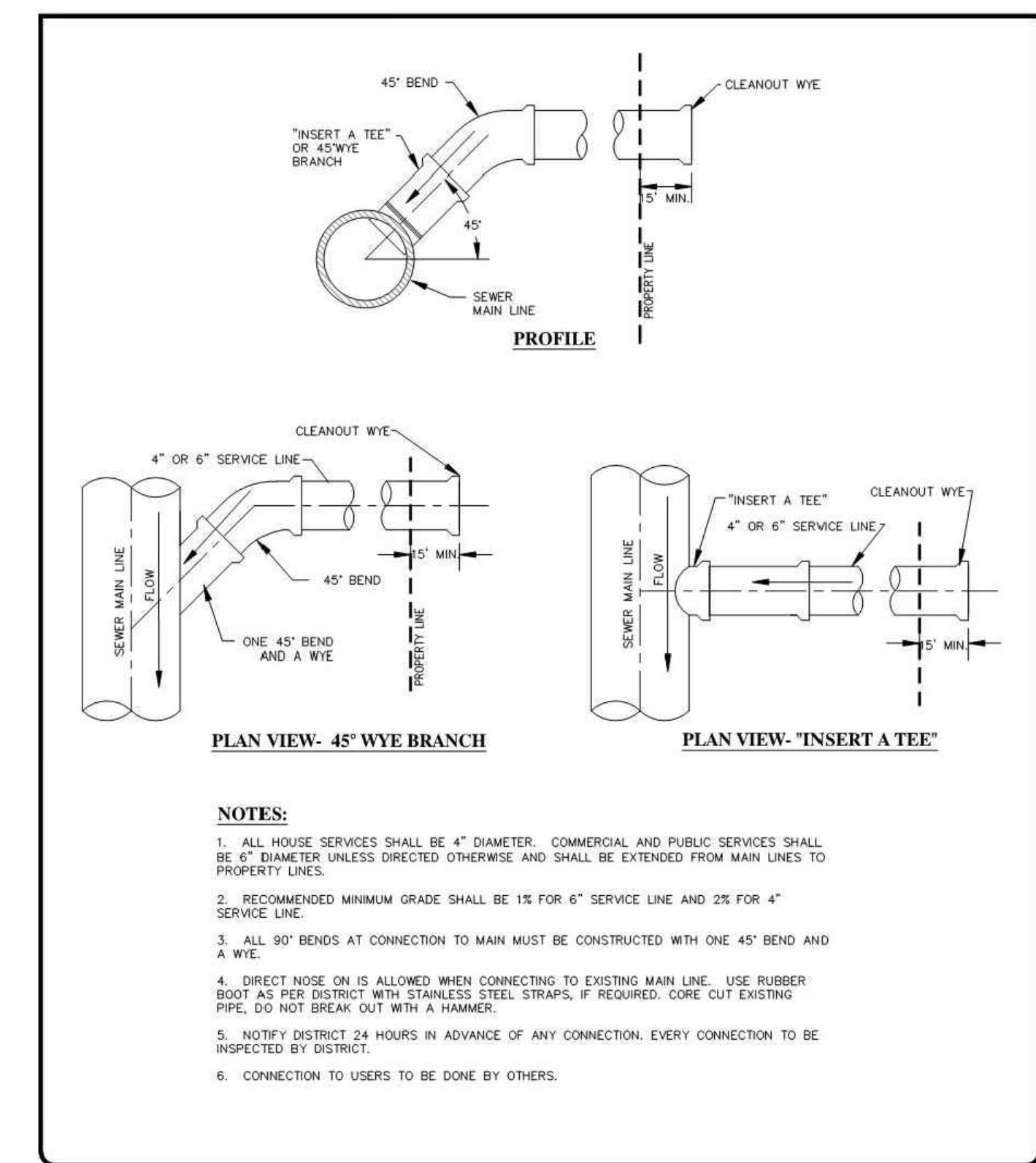
**RECOMMENDED TRENCH QUANTITIES**

PIPE DIAMETER (INCHES)	RECOMMENDED MAXIMUM TRENCH WIDTH FOR FILL IN PIPE ZONE	RECOMMENDED MAXIMUM WIDTH FOR FILL & SURFACING ABOVE PIPE ZONE
4	120.0	1828.0
6	155.4	1828.0
8	203.2	1828.0
10	244.0	1828.0
12	304.8	1828.0
15	381.0	1828.0
18	457.2	1828.0
21	533.4	1828.0
24	609.6	1828.0
30	762.0	2133.6
36	914.4	2133.6
42	1066.8	2438.4
48	1219.2	2438.4
54	1371.6	2743.2
60	1524.0	3048.0

- NOTES:**
- THE DISTRICT RECOMMENDS CONTRACTOR MEET ALL OF THE REQUIREMENTS ESTABLISHED FOR SAFE TRENCHING (SEE OSHA AND USDOH REQUIREMENTS, LATEST EDITIONS).
  - CONTRACTOR SHALL LOCATE ALL UNDERGROUND UTILITIES BEFORE LAYING PIPE WITHIN 50' OF SAID UTILITIES WHICH MAY BE EXPOSED, DAMAGED OR CROSSED AS SHOWN ON THE DRAWINGS OR AS "BLUE STAKED". THE CONTRACTOR WILL MAKE ARRANGEMENTS WITH THE UTILITY COMPANY TO MOVE THE UTILITY IF NECESSARY OR OBTAIN PERMISSION FROM THE DISTRICT ENGINEER TO MODIFY GRADE OF PIPELINE IN ORDER TO GO AROUND UTILITIES.
  - TESTING: ALL NEW SANITARY SEWERS TO BE "TELETESTED" AND NECESSARY REPAIRS MADE BEFORE ACCEPTANCE. ALL LINES SHALL BE PRESSURE TESTED TO 3.5 PSI MIN. FOR 5 MINUTES. A MANHOLE OR DALL CAN BE USED TO VERIFY DEFORMATION OF A PIPE AS DETERMINED FROM THE VIDEO UNLESS SPECIFIED OTHERWISE. MANHOLES SHALL BE TESTED AS DESCRIBED IN SECTION 02535.
  - ALL SEWER LINES TO BE INSTALLED IN PUBLIC RIGHT-OF-WAY OR RECORDED SEWER EASEMENT UNLESS OTHERWISE APPROVED BY THE DISTRICT ENGINEER.
  - WHERE COLLAPSIBLE SOILS ARE ENCOUNTERED, FURNISH PLACE AND COMPACT IMPORTED BACKFILL MATERIALS AS REQUIRED AND AS DIRECTED.
  - MIN. DEPTH SHALL BE 4" TO TOP OF PIPE. A 2' SPACING MUST BE MAINTAINED BETWEEN ALL WATER LINE PIPE CROSSINGS AND THE TOP OF THE SEWER PIPE.
  - IN AREAS WHERE SEWER LATERALS ARE NEEDED TO SERVE A BASEMENT 1' MIN. IS RECOMMENDED. IF THE SEWER LINE IS NOT 1' DEEP A NOTE MUST BE PLACED ON THE PLAN "BEFORE EXCAVATING BASEMENTS, CONTRACTOR MUST VERIFY SEWER DEPTH".
  - MAX. DEPTH SHALL BE 20' TO THE TOP OF PIPE UNLESS APPROVED OTHERWISE BY THE DISTRICT ENGINEER.



- NOTES:**
- IF GRADE ALLOWS, INVERTS OF D1 & D3 SHALL BE REQUIRED TO MATCH TOP OF D2.
  - AFTER ALL GRADING AROUND MANHOLE HAS BEEN COMPLETED AND FINAL SURFACING IS IN PLACE, REMOVE DEBRIS AND TEMPORARY PLUGS OR PLYWOOD FROM INSIDE OF MANHOLES.
  - IF MANHOLE IS TO BE POURED IN PLACE, FOLLOW SAME PATTERN AS SHOWN EXCEPT USE 10" MIN WALL THICKNESS.
  - MANHOLES DEEPER THAN 20 FEET SHALL HAVE AN 18" THICK CONCRETE BASE.
  - CONE AND WALL SECTIONS SHALL CONFORM WITH ASTM C-478 STANDARD.
  - ALL MANHOLE TO BE H-20 RATED.



- NOTES:**
- ALL HOUSE SERVICES SHALL BE 4" DIAMETER. COMMERCIAL AND PUBLIC SERVICES SHALL BE 6" DIAMETER UNLESS DIRECTED OTHERWISE AND SHALL BE EXTENDED FROM MAIN LINES TO PROPERTY LINES.
  - RECOMMENDED MINIMUM GRADE SHALL BE 1% FOR 6" SERVICE LINE AND 2% FOR 4" SERVICE LINE.
  - ALL 90° BENDS AT CONNECTION TO MAIN MUST BE CONSTRUCTED WITH ONE 45° BEND AND A WYE.
  - DIRECT NOSE ON IS ALLOWED WHEN CONNECTING TO EXISTING MAIN LINE. USE RUBBER BOOT AS PER DISTRICT WITH STAINLESS STEEL STRAPS, IF REQUIRED. CORE CUT EXISTING PIPE, DO NOT BREAK OUT WITH A HAMMER.
  - NOTIFY DISTRICT 24 HOURS IN ADVANCE OF ANY CONNECTION. EVERY CONNECTION TO BE INSPECTED BY DISTRICT.
  - CONNECTION TO USERS TO BE DONE BY OTHERS.

**STANDARD SEWER TRENCH**  
DATE: APRIL 2021  
DRAWING NAME: SS-1  
DRAWN BY: BFP:JM  
CHECKED BY: APPROVED:

**GILSON ENGINEERING**  
Civil Engineering & Surveying  
1240 SOUTH 400 EAST BUILDING C, UNIT 2, DRAPER, UT 84020  
PHONE: (801) 571-9444 FAX: (801) 571-9444

**POWDER MOUNTAIN WATER AND SEWER IMPROVEMENT DISTRICT**  
28 JON STREET, SUITE 100, OGDEN, UT 84401  
PHONE: (801) 775-1100

**SANITARY SEWER MANHOLE**  
DATE: APRIL 2021  
DRAWING NAME: SS-2  
DRAWN BY: BFP:JM  
CHECKED BY: APPROVED:

**GILSON ENGINEERING**  
Civil Engineering & Surveying  
1240 SOUTH 400 EAST BUILDING C, UNIT 2, DRAPER, UT 84020  
PHONE: (801) 571-9444 FAX: (801) 571-9444

**POWDER MOUNTAIN WATER AND SEWER IMPROVEMENT DISTRICT**  
28 JON STREET, SUITE 100, OGDEN, UT 84401  
PHONE: (801) 775-1100

**SEWER SERVICE CONNECTION**  
DATE: APRIL 2021  
DRAWING NAME: SS-3  
DRAWN BY: BFP:JM  
CHECKED BY: APPROVED:

**GILSON ENGINEERING**  
Civil Engineering & Surveying  
1240 SOUTH 400 EAST BUILDING C, UNIT 2, DRAPER, UT 84020  
PHONE: (801) 571-9444 FAX: (801) 571-9444

**POWDER MOUNTAIN WATER AND SEWER IMPROVEMENT DISTRICT**  
28 JON STREET, SUITE 100, OGDEN, UT 84401  
PHONE: (801) 775-1100

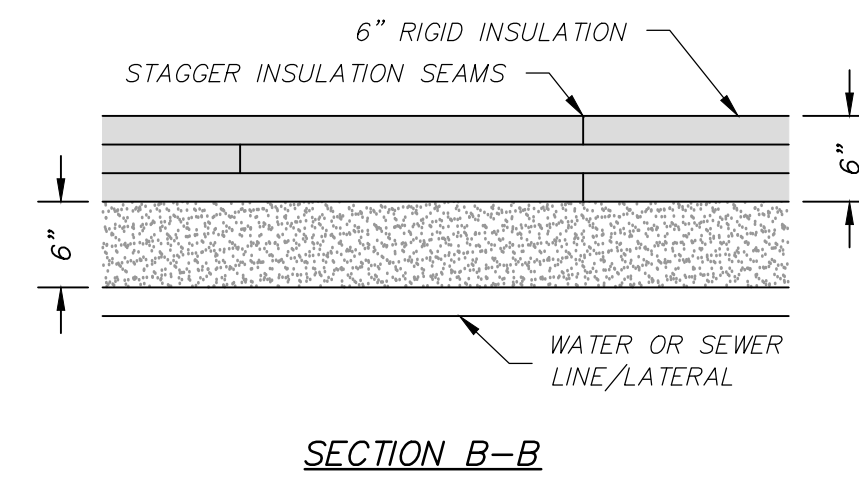
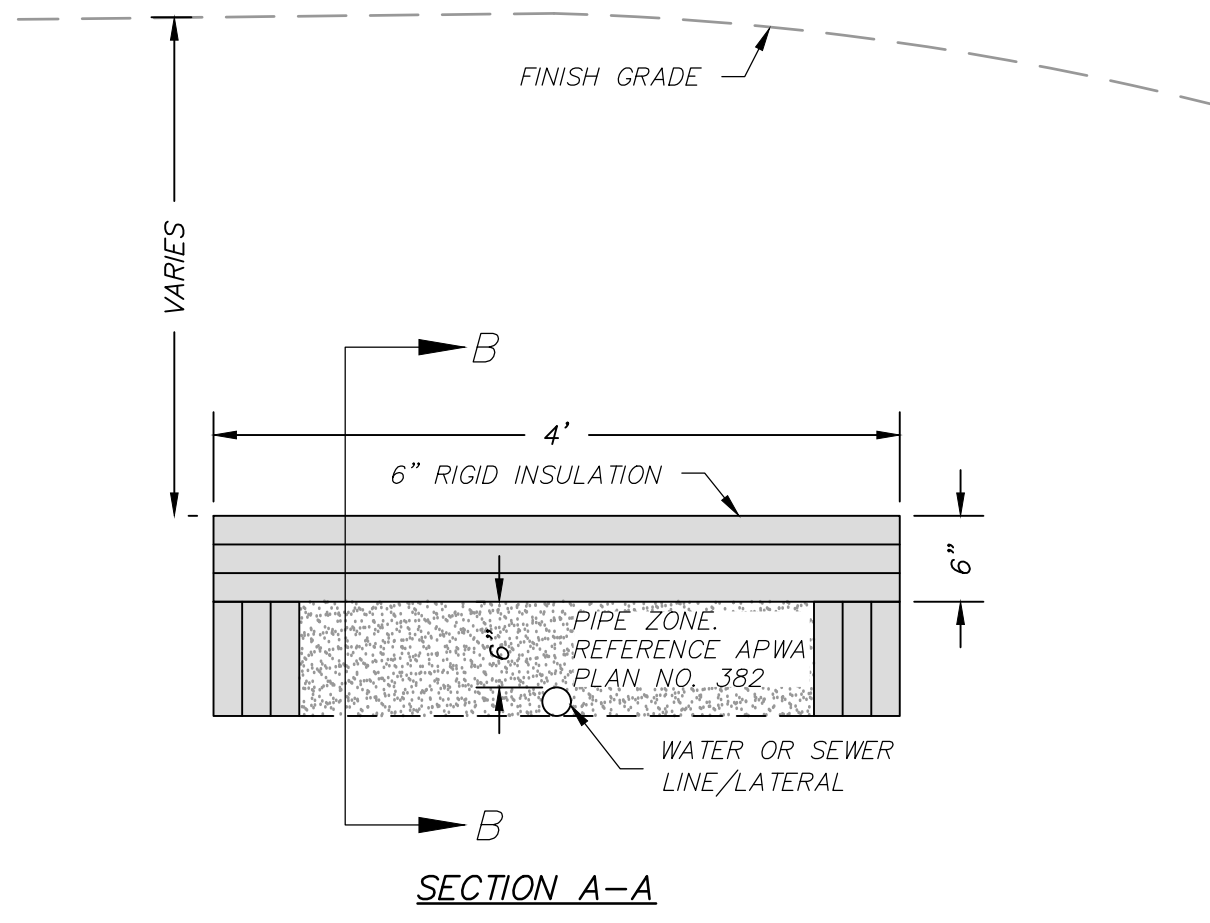
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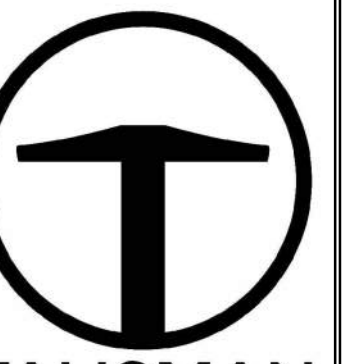
SHEET NUMBER  
**C702**  
14 OF 16

DATE: 12/22/2022

PATH:



**PIPE INSULATION**  
SCALE: N.T.S.



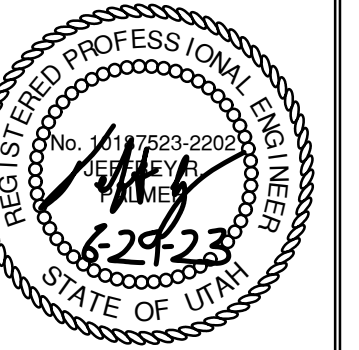
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CIVIL CONSULTANTS  
1588 SOUTH MAIN STREET  
SUITE 200  
SALT LAKE CITY, UT 84115  
801.743.1300

NO.	BY	DATE	REVISIONS

**POWDER POINT  
POWDER MOUNTAIN, UTAH  
DETAILS**

DATE: 06.29.2023

TCC JOB NUMBER: 22-126



SHEET NUMBER

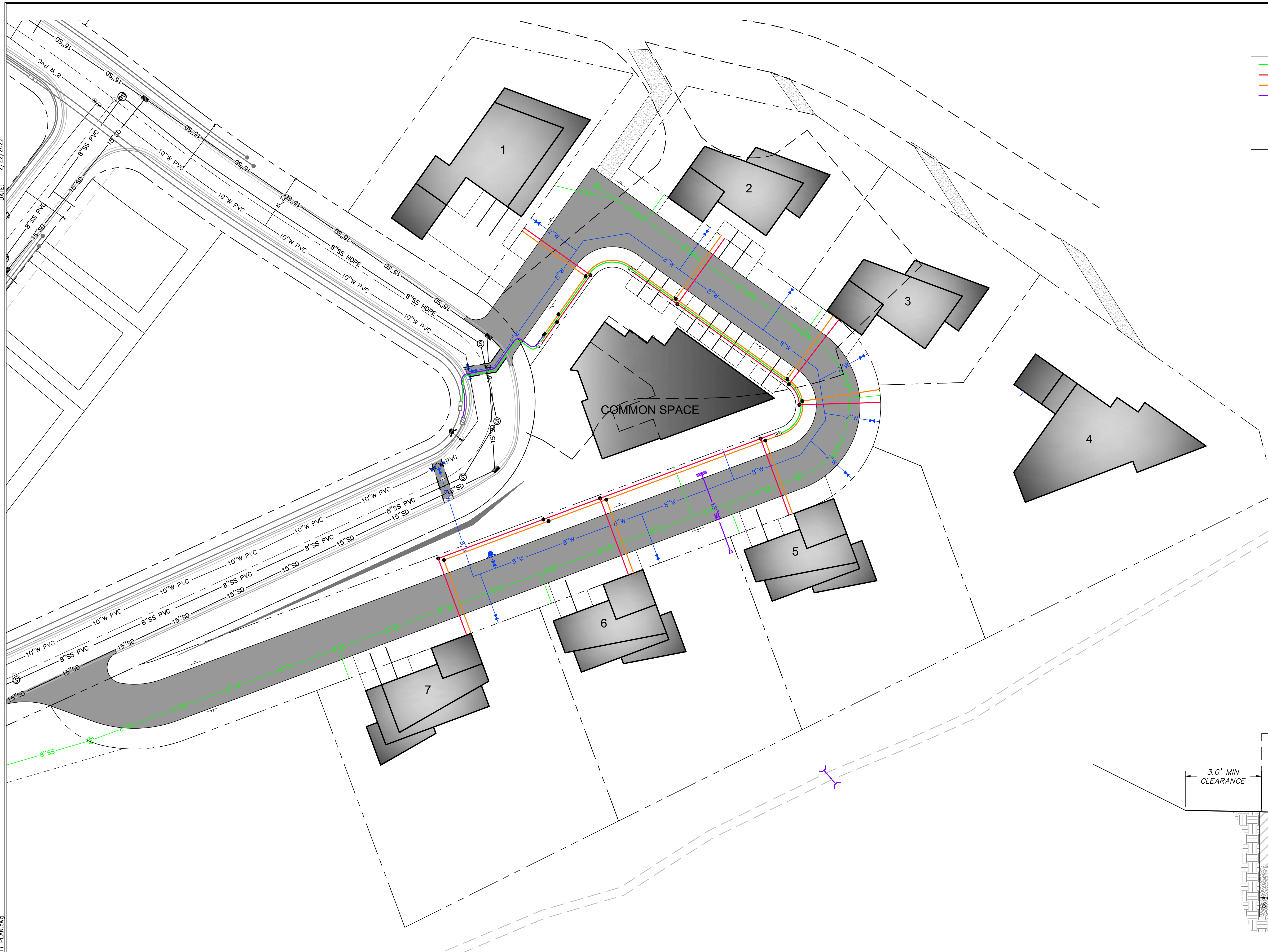
**C703**

15 OF 16



DATE: 12/22/2022

PATH: m:\s\80793\cadd\22-126 - ewerick.meh\cadd\up\800 DRY UTILITY PLAN.dwg



**LEGEND**

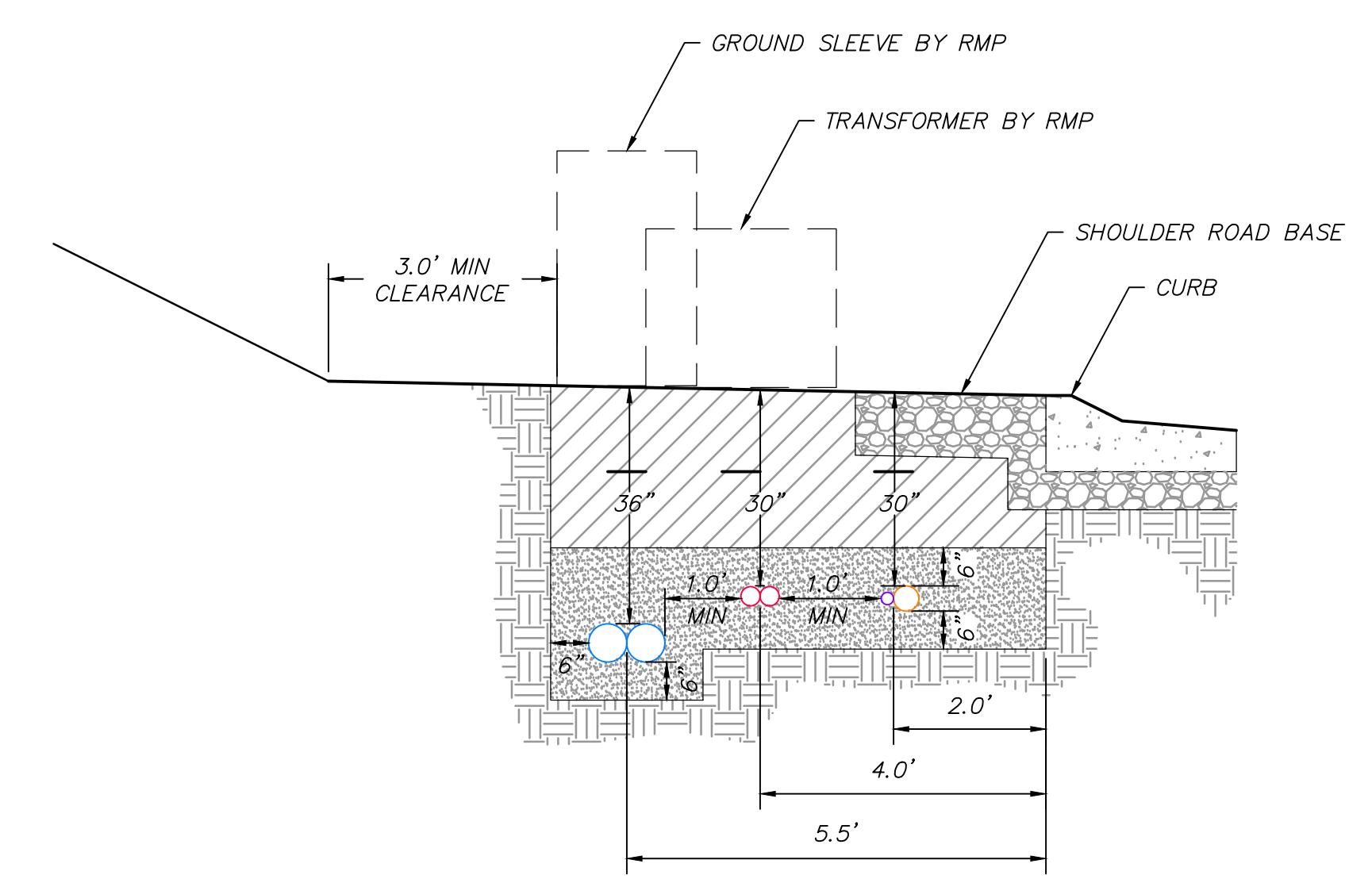
- 3" CONDUIT (PRIMARY ELECTRICAL, 36" COVER)
- 3" CONDUIT (SECONDARY ELECTRICAL, 30" COVER)
- 2" CONDUIT (COMMUNICATIONS, 30" COVER)
- 4" CONDUIT (COMMUNICATIONS, 30" COVER)
- ⊠ FUTURE RMP TRANSFORMER
- FUTURE RMP SERVICE BOX
- 17"x30" COMM BOX (OLDCASTLE POLYMER 1730)
- 10" COMM BOX (CARSON 910)

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

NO.	DATE	BY	REVISIONS

**POWDER POINT  
POWDER MOUNTAIN, UTAH  
DRY UTILITY PLAN**

TCC JOB NUMBER: 22-126      DATE: 06.29.2023

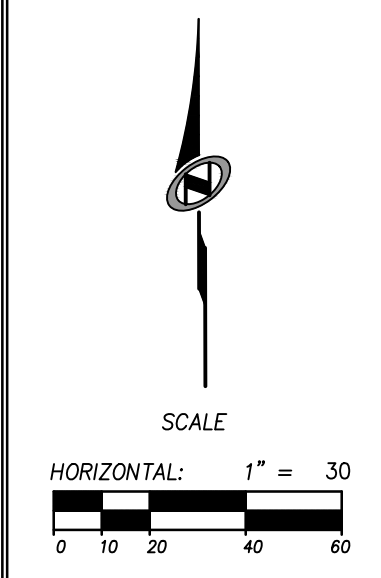
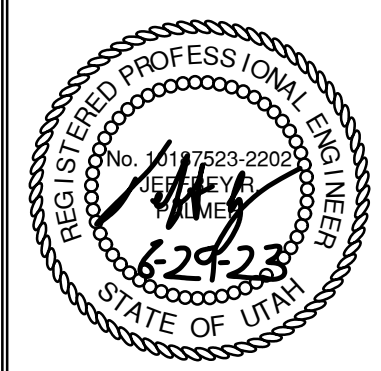


**NOTES:**

- \* SCREENED BACKFILL SHALL CONTAIN ONLY SOIL & ROCKS THAT WILL PASS THROUGH A 4" SIEVE.
- \* PRIOR TO BACKFILLING, ROCKY MOUNTAIN POWER SHALL INSPECT BACKFILL MATERIAL AND CONDUIT INSTALLATION
- \* INSTALL FLAT PULL LINE RATED TO WITHSTAND 1000 LBS OF TENSION WITHIN CONDUITS WITH 72" EXTRA LINE FROM EACH END. PULL LINE TO BE SEALED INSIDE ENDS OF CONDUIT AND BOTH CONDUIT ENDS CAPPED.
- \* BACKBONE PRIMARY REQUIRES (2) 6" CONDUITS. PRIMARY TO TRANSFORMERS REQUIRES (1) 3" CONDUIT. WHERE BOTH EXIST IN SAME TRENCH, PROVIDE 12" SEPARATION. ALL PRIMARY TO HAVE 36" COVER.

**LEGEND**

- CONDUIT FOR PRIMARY ELECTRICAL
- 3" CONDUIT FOR PRIMARY ELECTRICAL
- 3" CONDUIT FOR SECONDARY ELECTRICAL
- 4" CONDUIT FOR COMMUNICATIONS
- 2" CONDUIT FOR COMMUNICATIONS
- MYLAR WARNING TAPE
- UNDISTURBED EARTH
- ▨ SCREENED BACKFILL MIN 6" AROUND ALL SIDES OF CONDUITS.
- ▨ BACKFILL COMPACTED TO 90%
- ▨ ROAD BASE



SHEET NUMBER  
**C800**  
16 OF 16