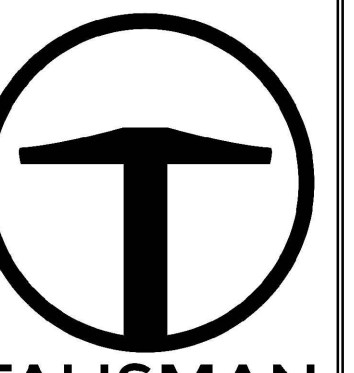


POWDER POINT AT POWDER MOUNTAIN DESIGN DEVELOPMENT DRAWINGS

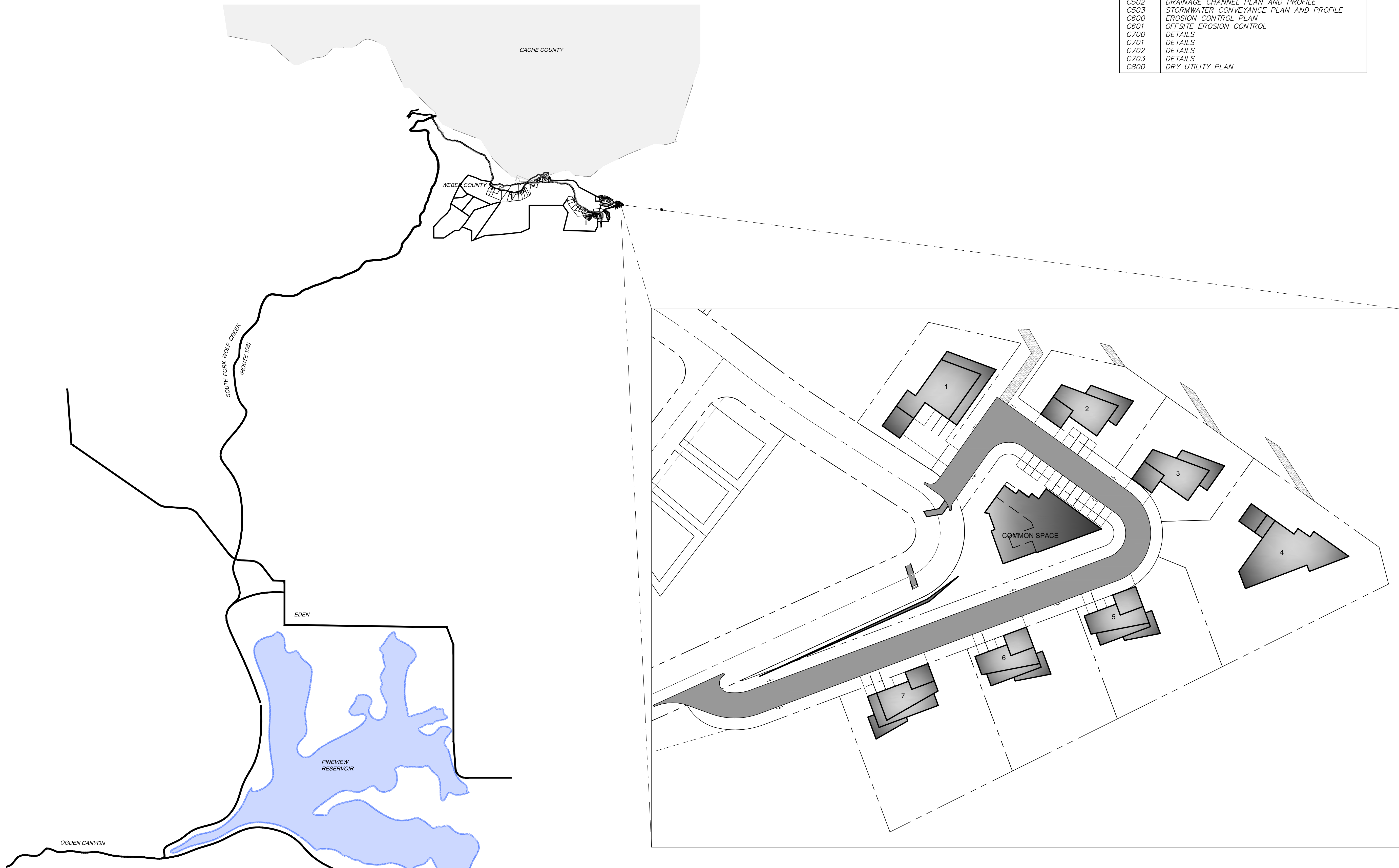
Located in Weber County, Utah



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

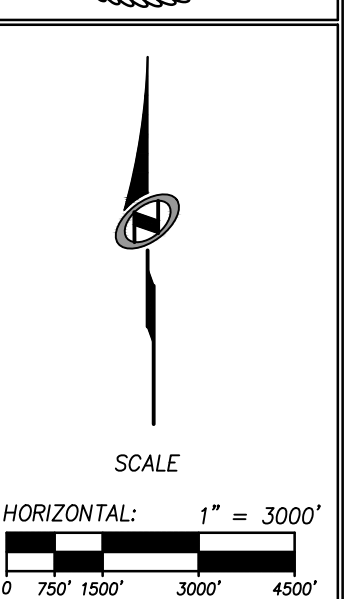
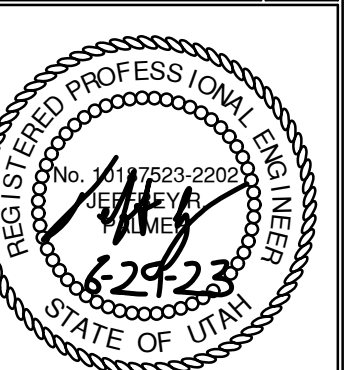
SHEET INDEX:

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
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C800	DRY UTILITY PLAN



NO.	BY	DATE	REVISIONS

POWDER POINT
POWDER MOUNTAIN, UTAH
COVER SHEET
 TCC JOB NUMBER: 22-126
 DATE: 06.29.2023



SHEET NUMBER
C000
1 OF 16



DATE: 6/29/2023 4:29 PM

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GENERAL NOTES

- 1. ALL CONSTRUCTION MUST STRICTLY FOLLOW THE STANDARDS AND SPECIFICATIONS SET FORTH BY: GOVERNING UTILITY MUNICIPALITY, GOVERNING CITY OR COUNTY (IF UN-INCORPORATED), INDIVIDUAL PRODUCT MANUFACTURERS, THE DESIGN ENGINEER, AND AMERICAN PUBLIC WORKS ASSOCIATION (APWA)...

GENERAL NOTES CONT.

- 27. CONTRACTOR SHALL BE SKILLED AND REGULARLY ENGAGED IN THE GENERAL CLASS AND TYPE OF WORK CALLED FOR IN THE PROJECT PLANS AND SPECIFICATIONS. THEREFORE, THE OWNER IS RELYING UPON THE EXPERIENCE AND EXPERTISE OF THE CONTRACTOR...

UTILITY NOTES

- 1. CONTRACTOR SHALL COORDINATE LOCATION OF NEW "DRY UTILITIES" WITH THE APPROPRIATE UTILITY COMPANY, INCLUDING BUT NOT LIMITED TO: TELEPHONE SERVICE, GAS SERVICE, CABLE, POWER, INTERNET.

LEGEND:

Table with columns: SYMBOL / LINETYPE, DESCRIPTION, DETAIL. Lists symbols for various pipes (8"W PVC, 10"W PVC, 8"W HDPE, etc.), valves, manholes, and conduits.

NOTE: LEGEND MAY CONTAIN SYMBOLS THAT ARE NOT USED IN PLAN SET. EROSION CONTROL GENERAL NOTES:

THE CONTRACTOR TO USE BEST MANAGEMENT PRACTICES FOR PROVIDING EROSION CONTROL FOR CONSTRUCTION OF THIS PROJECT. ALL MATERIAL AND WORKMANSHIP SHALL CONFORM TO WEBER COUNTY ORDINANCES AND ALL WORK SHALL BE SUBJECT TO INSPECTION BY THE COUNTIES.

CONTRACTOR SHALL KEEP THE SITE WATERED TO CONTROL DUST. CONTRACTOR TO LOCATE A NEARBY HYDRANT FOR USE AND TO INSTALL TEMPORARY METER. CONSTRUCTION WATER COST TO BE INCLUDED IN BID.

WHEN GRADING OPERATIONS ARE COMPLETED AND THE DISTURBED GROUND IS LEFT "OPEN" FOR 14 DAYS OR MORE, THE AREA SHALL BE FURROWED PARALLEL TO THE CONTOURS.

THE CONTRACTOR SHALL MODIFY EROSION CONTROL MEASURES TO ACCOMMODATE PROJECT PLANNING.

ALL ACCESS TO PROPERTY WILL BE FROM PUBLIC RIGHT-OF-WAYS.

THE CONTRACTOR IS REQUIRED BY STATE AND FEDERAL REGULATIONS TO PREPARE A STORM WATER POLLUTION PREVENTION PLAN AND FILE A "NOTICE OF INTENT" WITH THE UTAH DIVISION OF WATER QUALITY.

MAINTENANCE: ALL BEST MANAGEMENT PRACTICES (BMP'S) SHOWN ON THIS PLAN MUST BE MAINTAINED AT ALL TIMES UNTIL VEGETATION IS RE-ESTABLISHED.

THE CONTRACTOR'S RESPONSIBILITY SHALL INCLUDE MAKING BI-WEEKLY CHECKS ON ALL EROSION CONTROL MEASURES TO DETERMINE IF REPAIR OR SEDIMENT REMOVAL IS NECESSARY. CHECKS SHALL BE DOCUMENTED AND COPIES OF THE INSPECTIONS KEPT ON SITE.

SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH RAINFALL. THEY MUST BE REMOVED WHEN THE LEVEL OF DEPOSITION REACHES APPROXIMATELY ONE-HALF THE HEIGHT OF BARRIER.

SEDIMENT TRACKED ONTO PAVED ROADS MUST BE CLEANED UP AS SOON AS PRACTICAL, BUT IN NO CASE LATER THAN THE END OF THE NORMAL WORK DAY. THE CLEAN UP WILL INCLUDE SWEEPING OF THE TRACKED MATERIAL, PICKING IT UP, AND DEPOSITING IT TO A CONTAINED AREA.

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
B) TRACKING STRAW PERPENDICULAR TO SLOPES
C) INSTALLING A LIGHT-WEIGHT, TEMPORARY EROSION CONTROL BLANKET

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:

CULINARY WATER NOTES

- 1. ALL MATERIALS THAT MAY COME IN CONTACT WITH DRINKING WATER, INCLUDING PIPES, GASKETS, LUBRICANTS AND O-RINGS, SHALL BE ANSI-CERTIFIED AS MEETING THE REQUIREMENTS OF ANSI/NSF STANDARD 61, DRINKING WATER SYSTEM COMPONENTS - HEALTH EFFECTS...

WEBER COUNTY

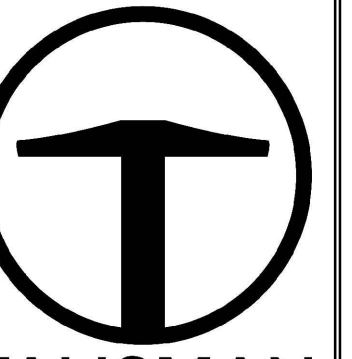
2380 WASHINGTON BLVD. #240
OGDEN, UT 84401
(801) 399-8374

ROCKY MOUNTIAN POWER

1438 WEST 2550 SOUTH
OGDEN, UT 84401
(801) 629-4429

POWDER MOUNTAIN WATER & SEWER DISTRICT

PO BOX 270
EDEN, UT 84310
(801) 745-0912



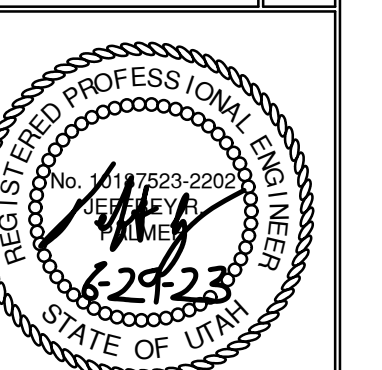
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1588 SOUTH MAIN STREET SUITE 200
SALT LAKE CITY, UT 84115
801.743.1300

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DATE: 06.29.2023

POWDER POINT POWDER MOUNTAIN, UTAH GENERAL NOTES

TCC JOB NUMBER: 22-126

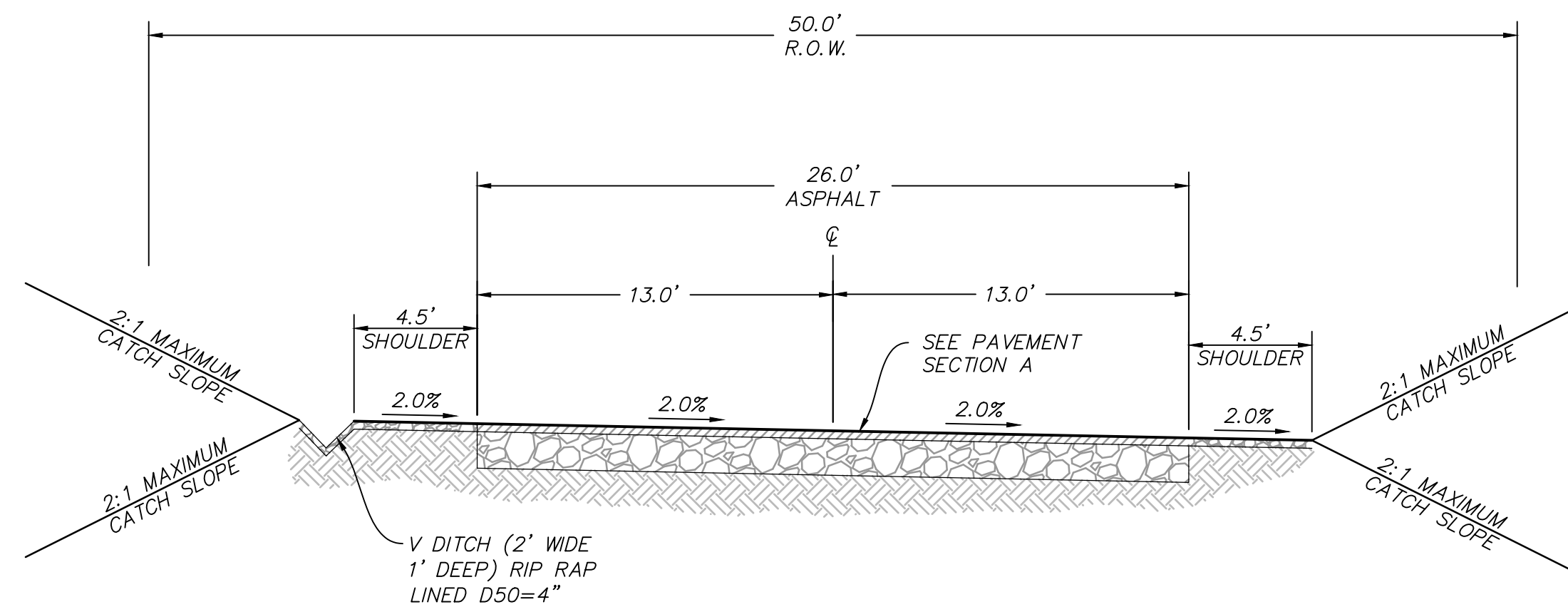


PROFESSIONAL ENGINEER
STATE OF UTAH
No. 62923

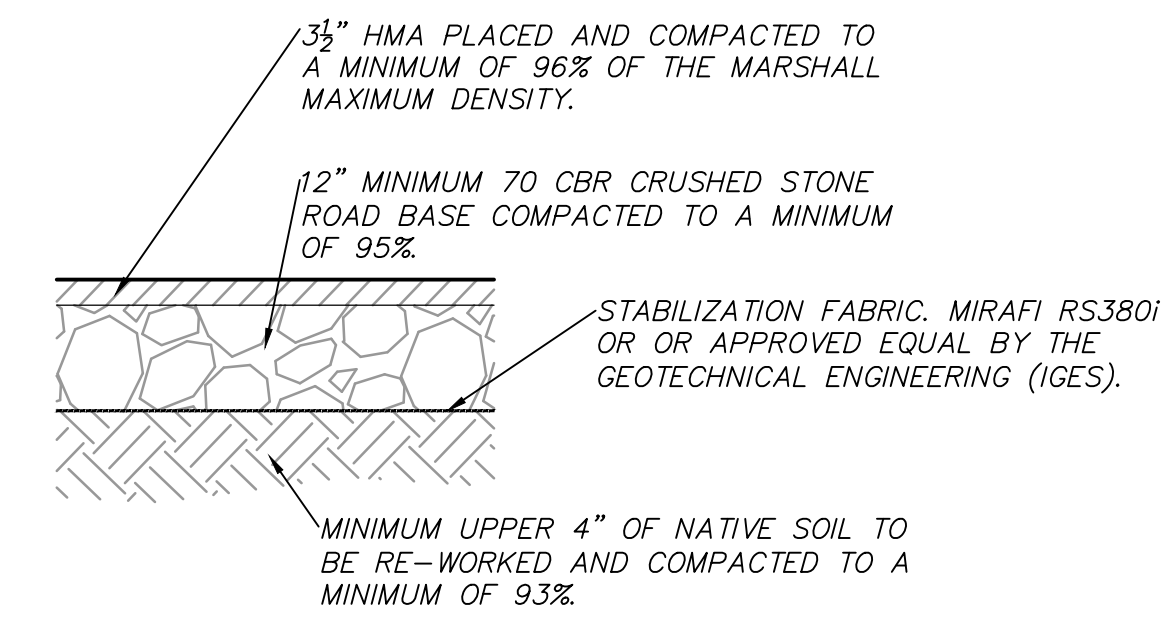
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2 OF 16

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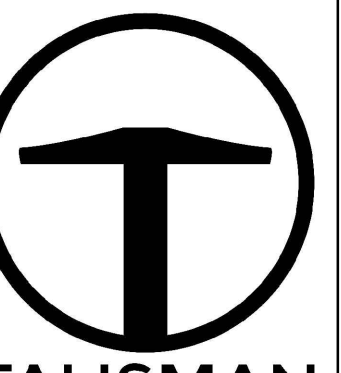


TYPICAL SECTION: POWDER POINT



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

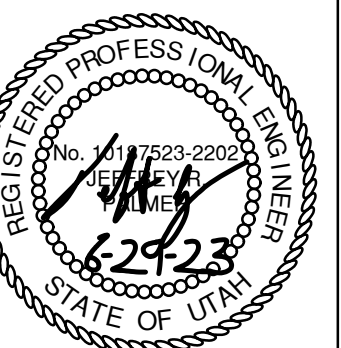
PAVEMENT SECTION A



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NO.	BY	DATE	REVISIONS

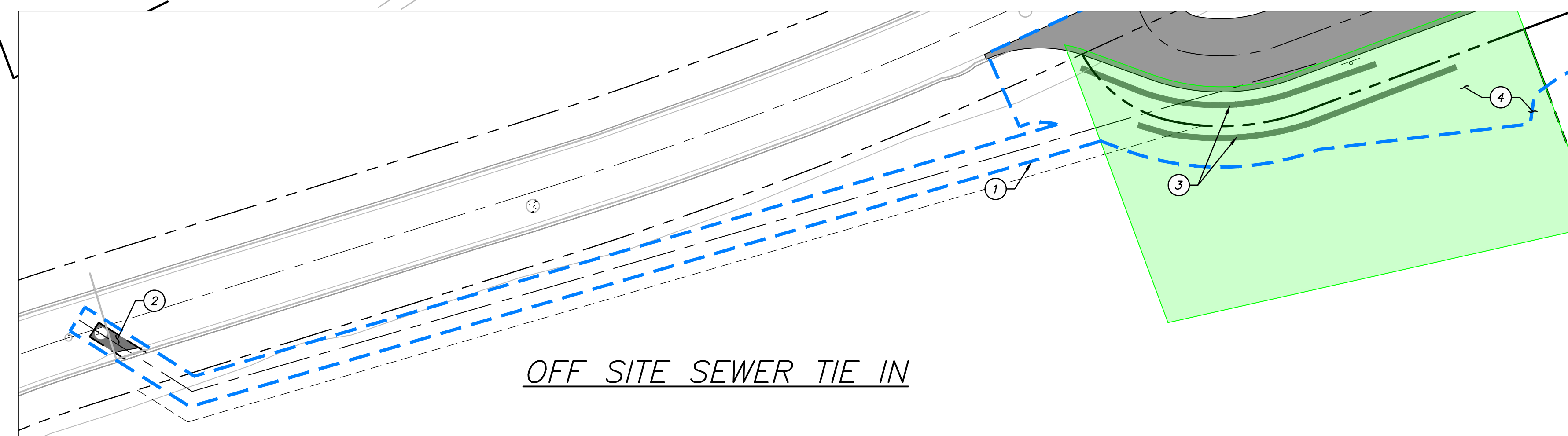
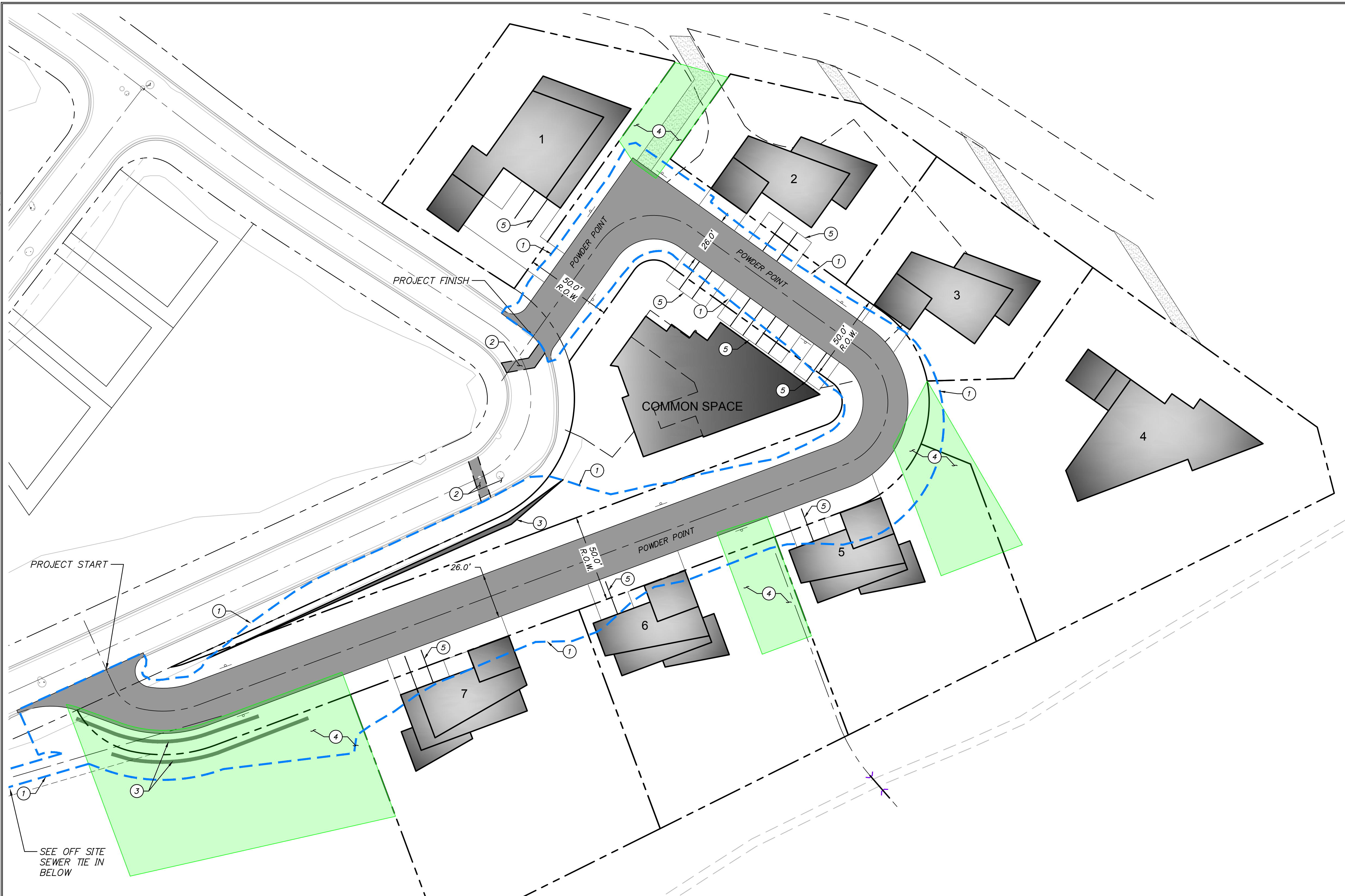
POWDER POINT
POWDER MOUNTAIN, UTAH
TYPICAL ROAD AND PAVEMENT SECTIONS
TCC JOB NUMBER: 22-126
DATE: 06.29.2023



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C002
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DATE: 6/29/2023 4:57 PM

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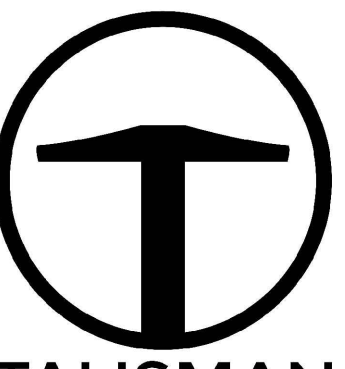
SITE GENERAL NOTES:

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.

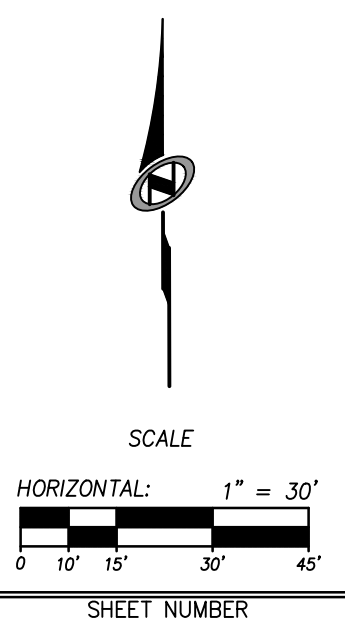


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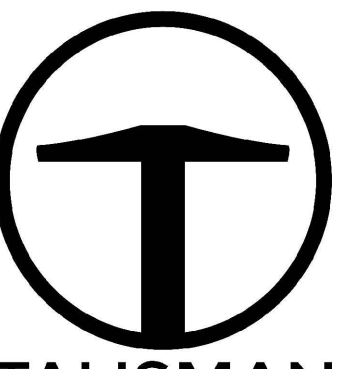
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POWDER POINT
POWDER MOUNTAIN, UTAH
DEMOLITION AND SITE PLAN

TCC JOB NUMBER: 22-126 DATE: 06.29.2023



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C200
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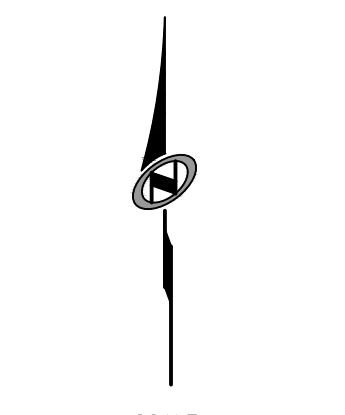
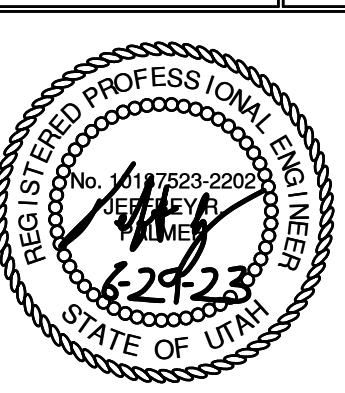
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NO.	DATE	BY	REVISIONS

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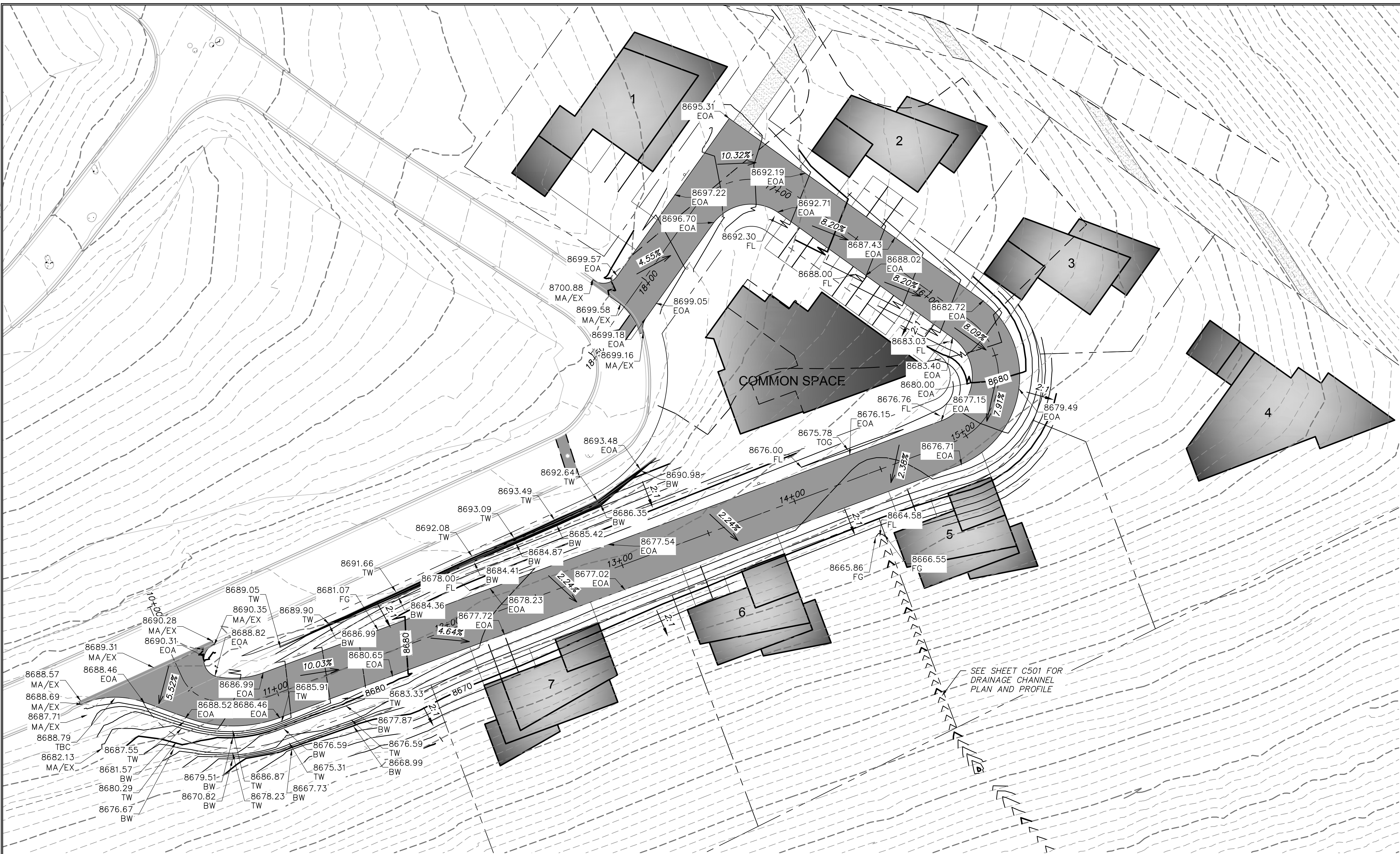
**POWDER POINT
POWDER MOUNTAIN, UTAH
GRADING PLAN**

TCC JOB NUMBER: 22-126



SCALE
HORIZONTAL: 1" = 30'

SHEET NUMBER
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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

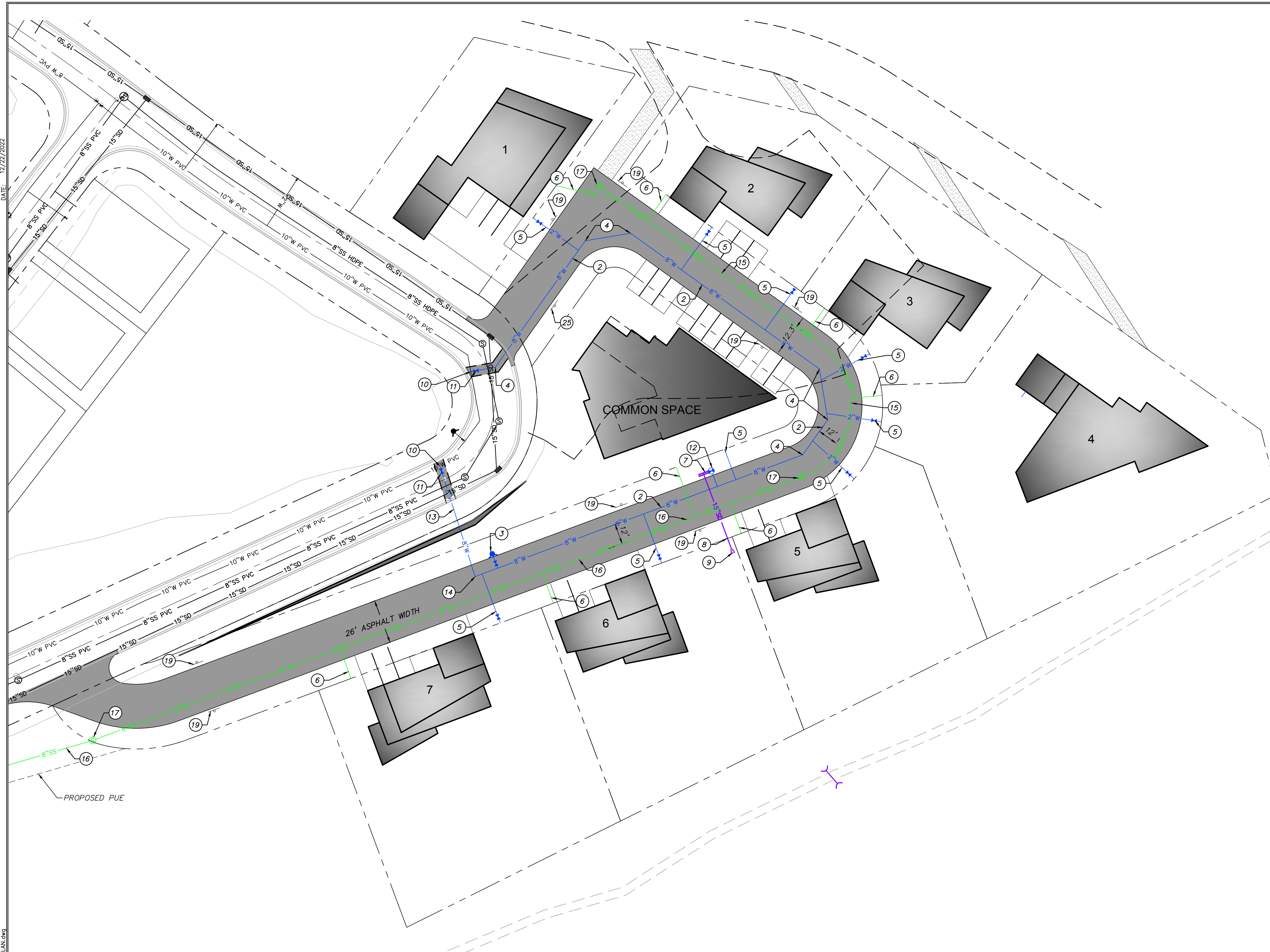
LEGEND:

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



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.
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:

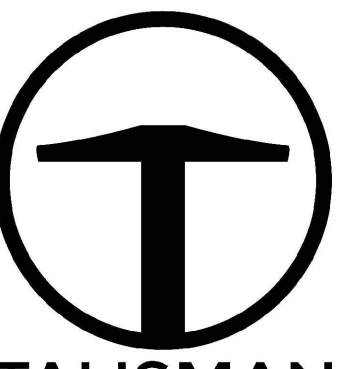
PROVIDE, INSTALL AND/OR CONSTRUCT THE FOLLOWING PER THE SPECIFICATIONS GIVEN OR REFERENCED, THE DETAILS NOTED, AND/OR AS SHOWN ON THE CONSTRUCTION DRAWINGS:

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"Ø 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.
12. INSTALL BLOW OFF 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. 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.



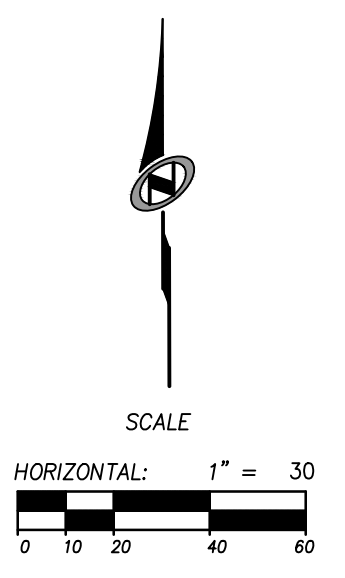
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CIVIL CONSULTANTS
1588 SOUTH MAIN STREET
SUITE 200
SALT LAKE CITY, UT 84115
801.743.1300

NO.	BY	DATE	REVISIONS

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

DATE: 06.29.2023

TCC JOB NUMBER: 22-126

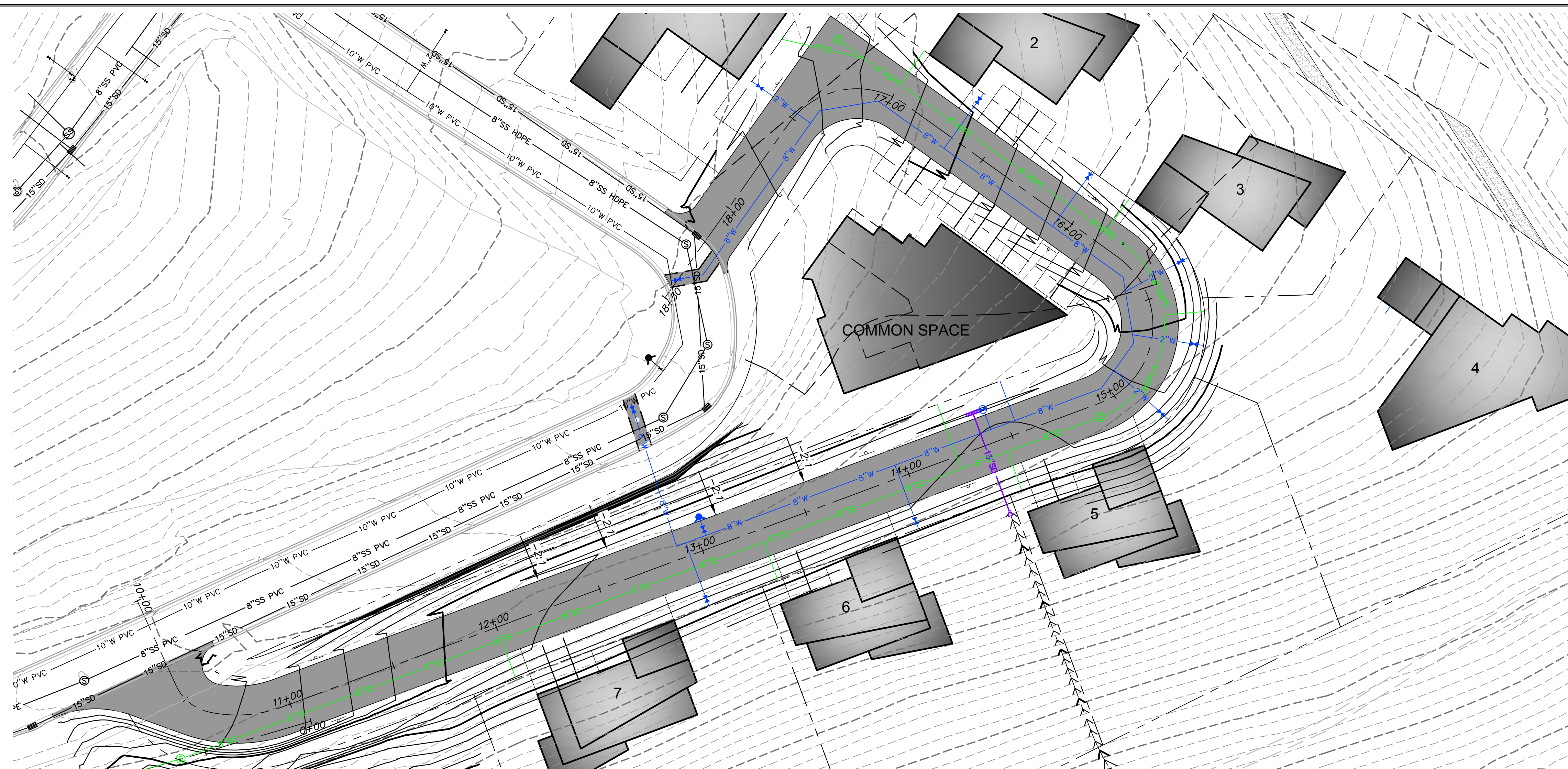


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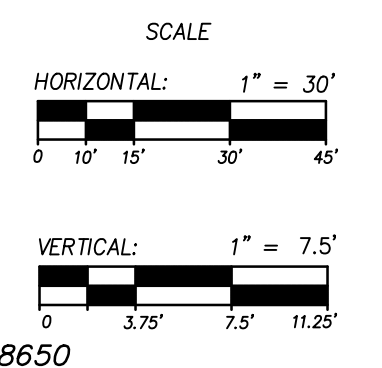
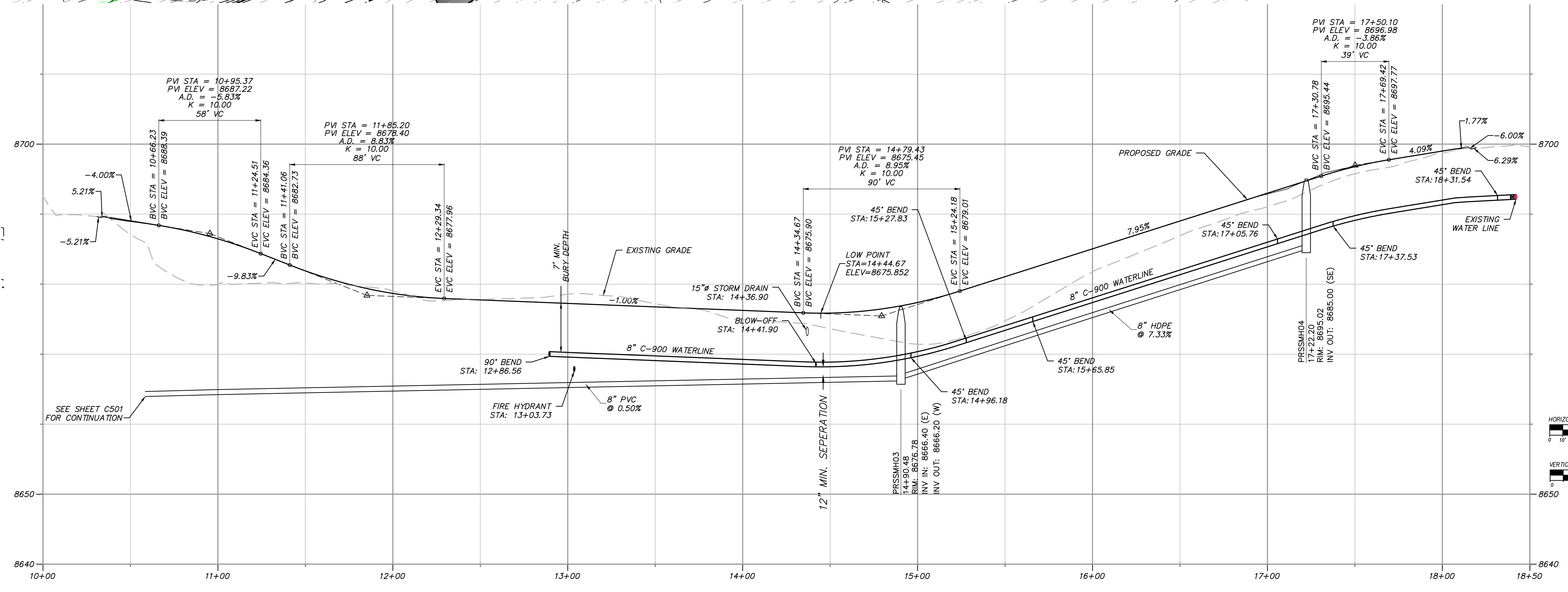
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- UTILITY GENERAL NOTES:**
- SEE GRADING DRAWINGS FOR ADDITIONAL DESIGN INFORMATION.
 - EXISTING UNDERGROUND UTILITIES AND IMPROVEMENTS ARE SHOWN IN THEIR APPROXIMATE LOCATIONS BASED UPON RECORD INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF PLANS. 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.
 - 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.
 - SEE SHEETS C500 & C501 FOR VERTICAL DESIGN.

- 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.

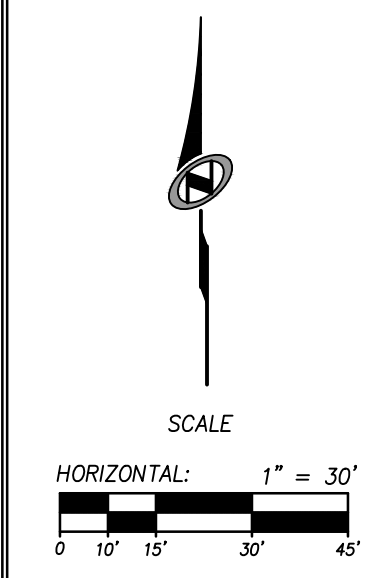
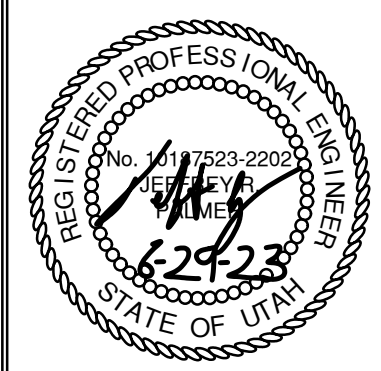


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SALT LAKE CITY, UT 84115
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NO.	BY	DATE	REVISIONS

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

TCC JOB NUMBER: 22-126
DATE: 06.29.2023

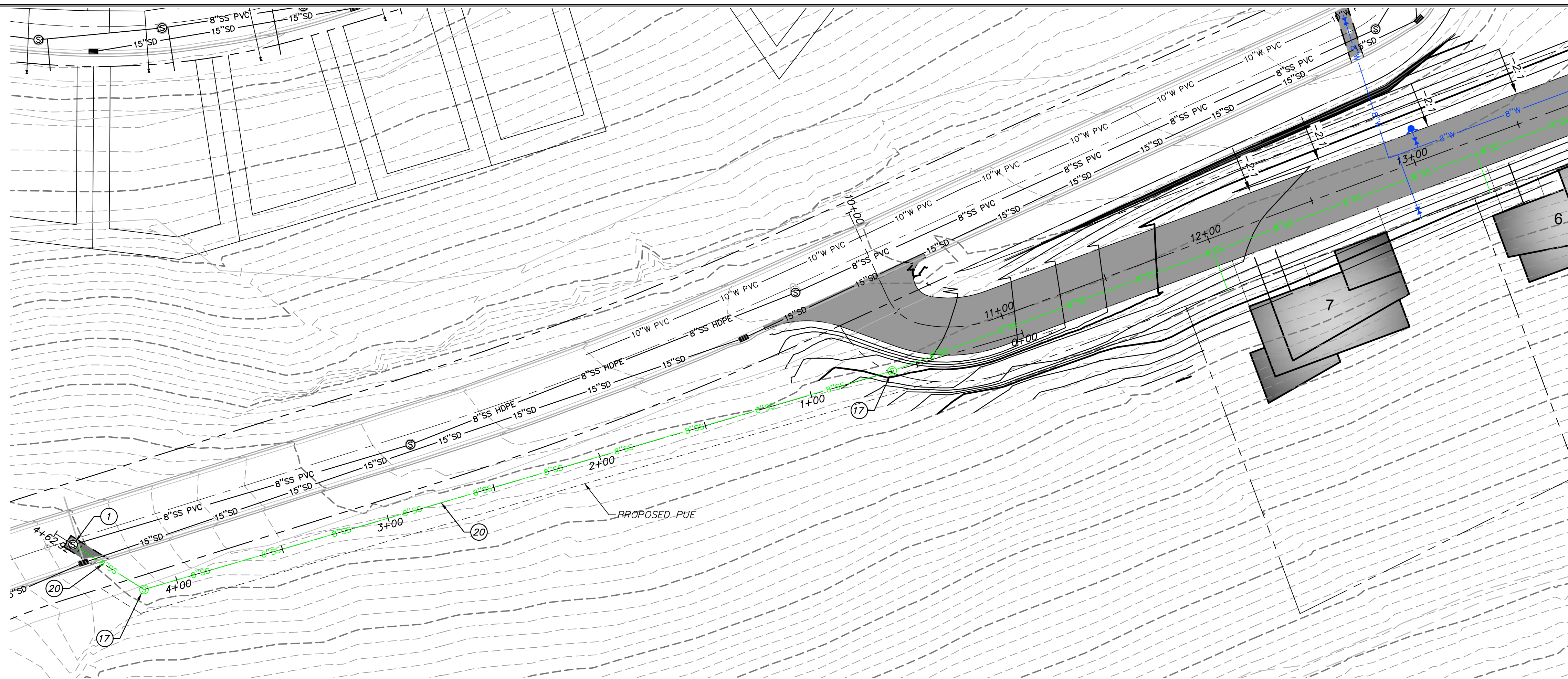


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C500
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DATE: 12/22/2022

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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.
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.

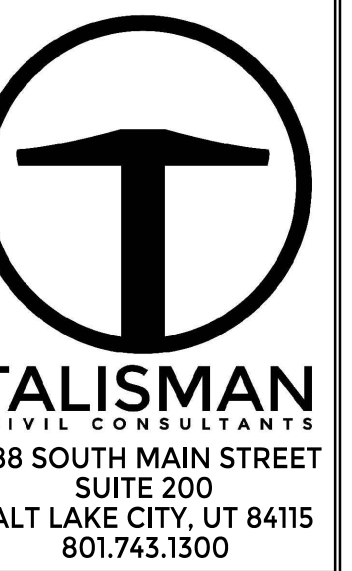
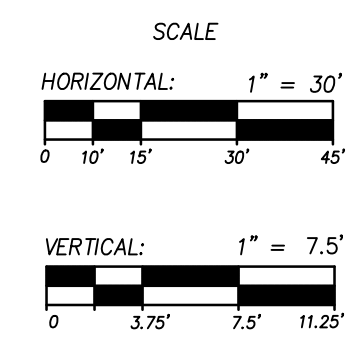
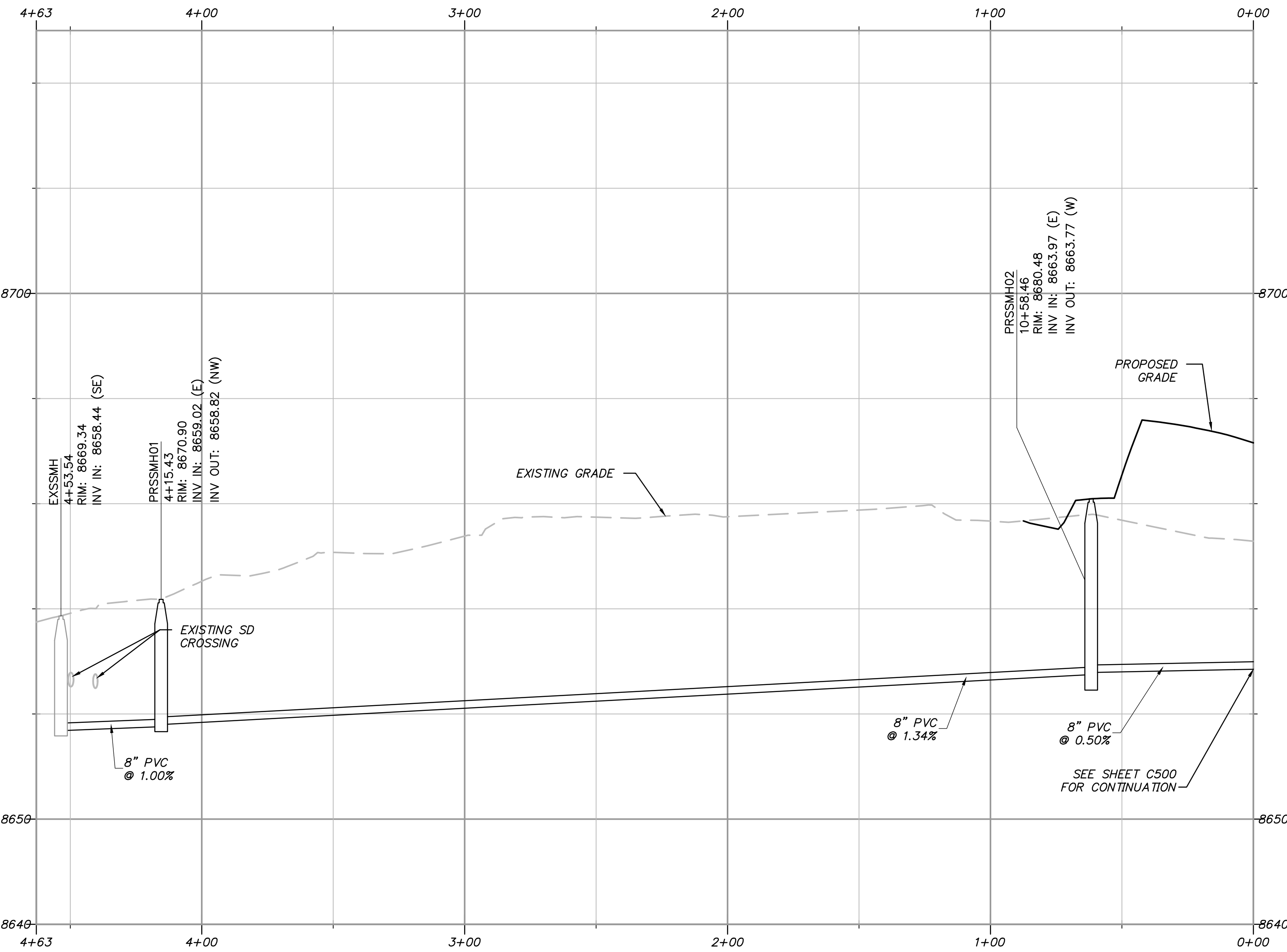
UTILITY KEYNOTES:

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

- 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:

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.

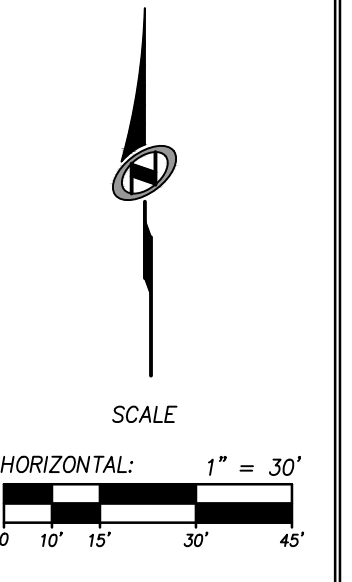
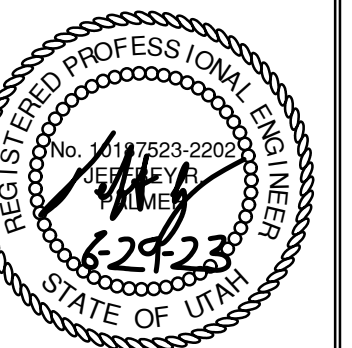


NO.	DATE	BY	REVISIONS

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

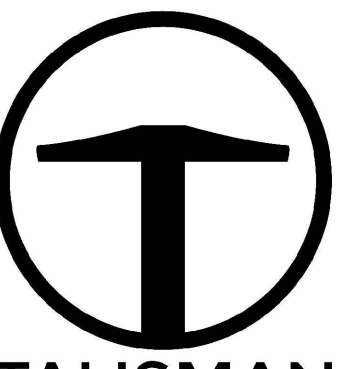
DATE: 06.29.2023

TCC JOB NUMBER: 22-126



SHEET NUMBER
C501
7 OF 16



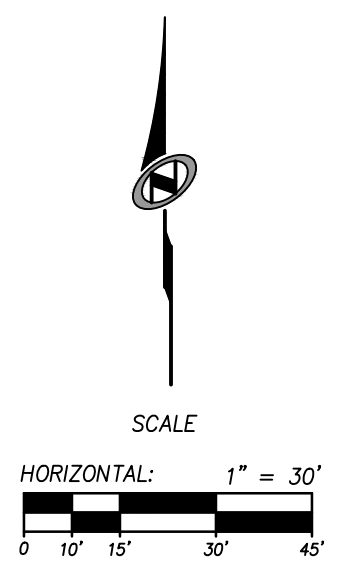


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1588 SOUTH MAIN STREET
SUITE 200
SALT LAKE CITY, UT 84115
801.743.1300

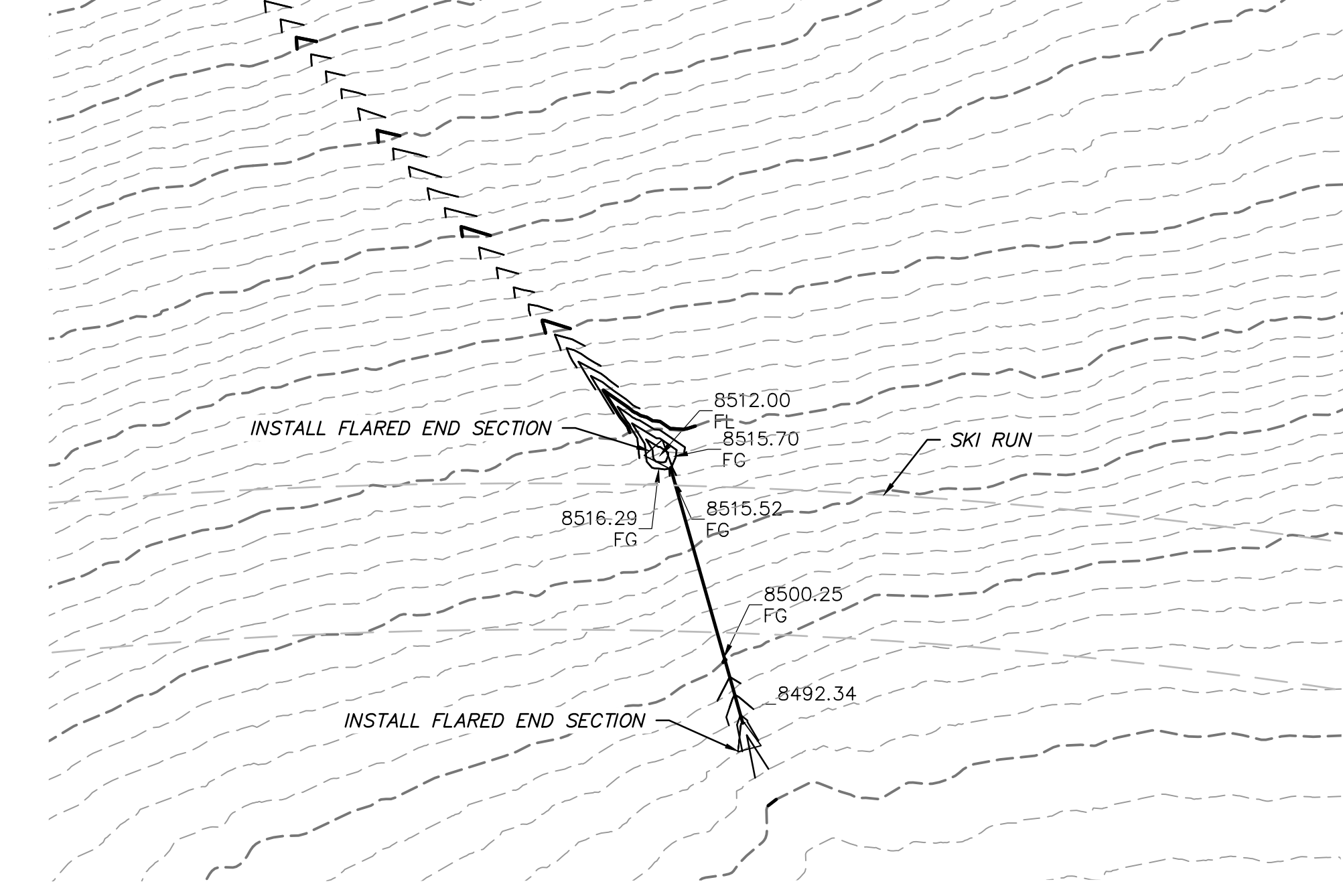
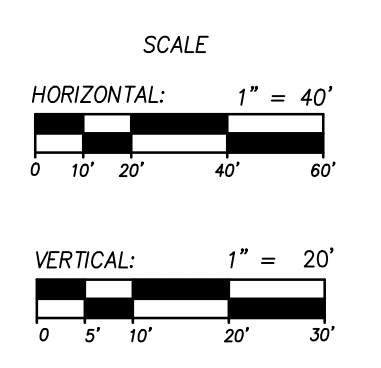
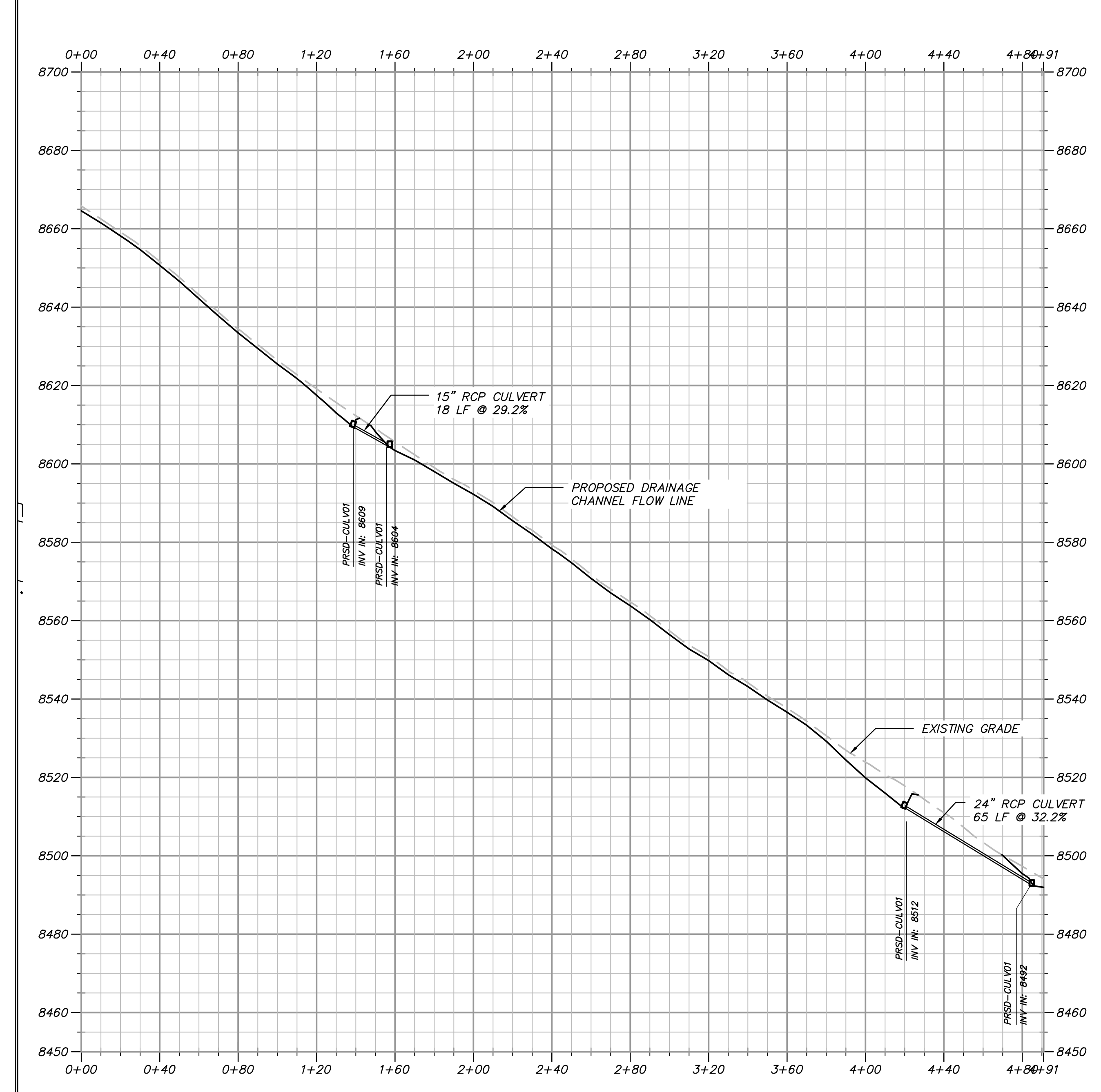
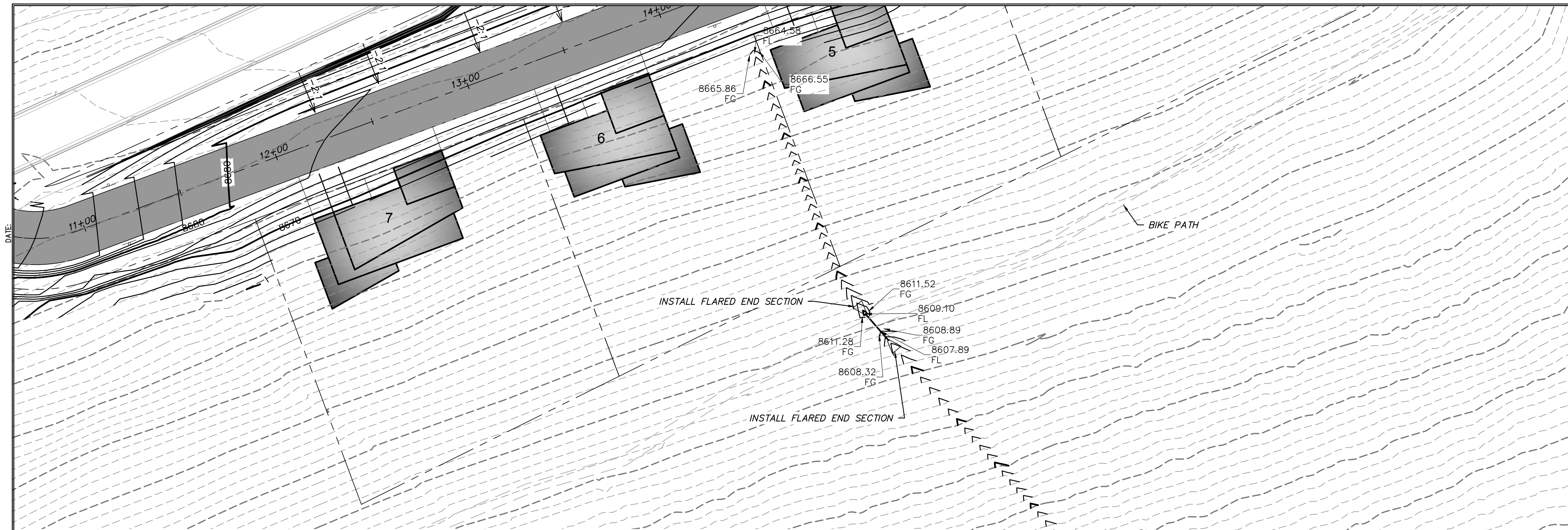
NO.	DATE	BY	REVISIONS

POWDER POINT
POWDER MOUNTAIN, UTAH
DRAINAGE CHANNEL PLAN & PROFILES

TCC JOB NUMBER: 22-126 DATE: 06.29.2023



SHEET NUMBER
C502
8 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 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

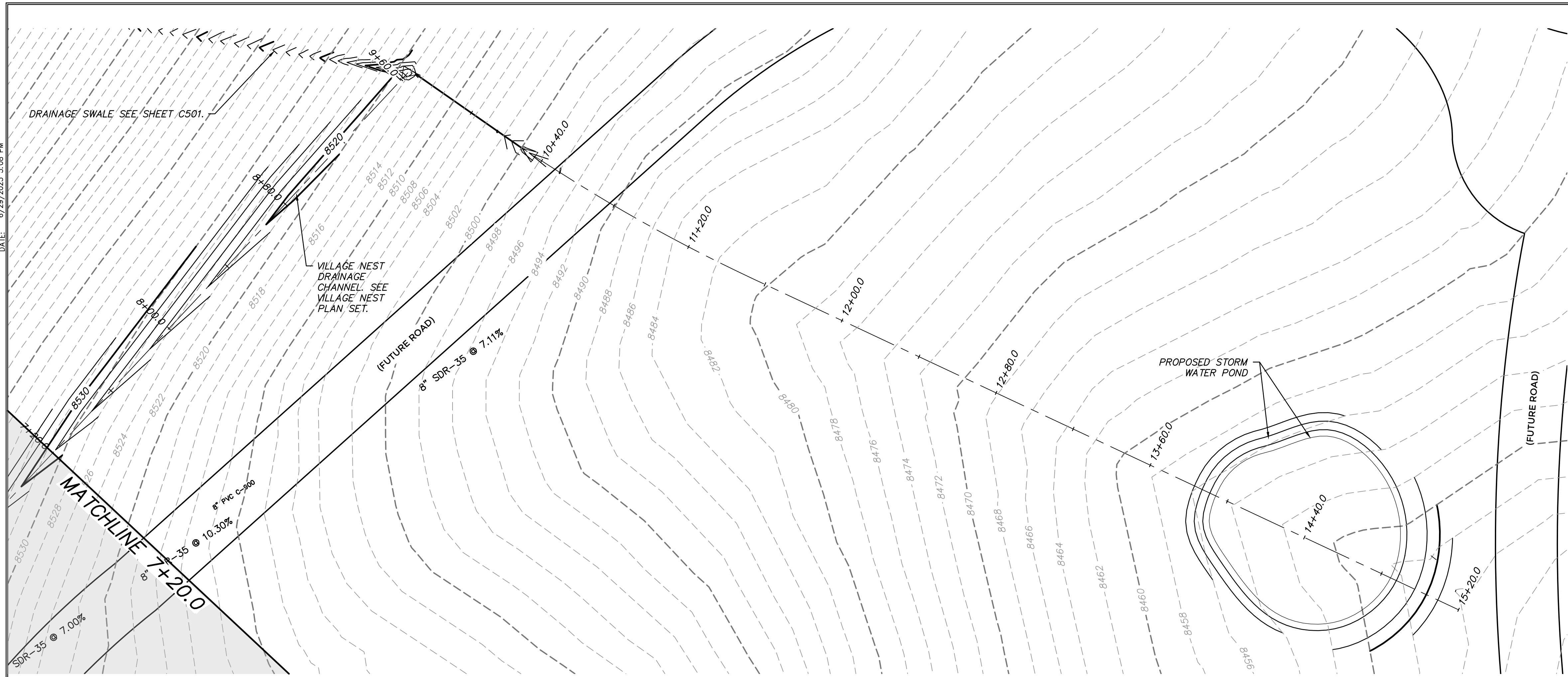
LEGEND:

---	XXXX	EXISTING ELEVATION CONTOURS
---	XXXX	EXISTING GRADE
---	XXXX	EDGE OF PAVEMENT
---	XXXX	FINISHED GRADE
---	XXXX	PROPOSED ELEVATION CONTOURS



DATE: 6/29/2023 5:08 PM

PATH: H:\SLB0783\Code\22-126 - Overlook Point\Cadd\Job_V04 STORMWATER CONVEYANCE PLAN AND PROFILE.dwg



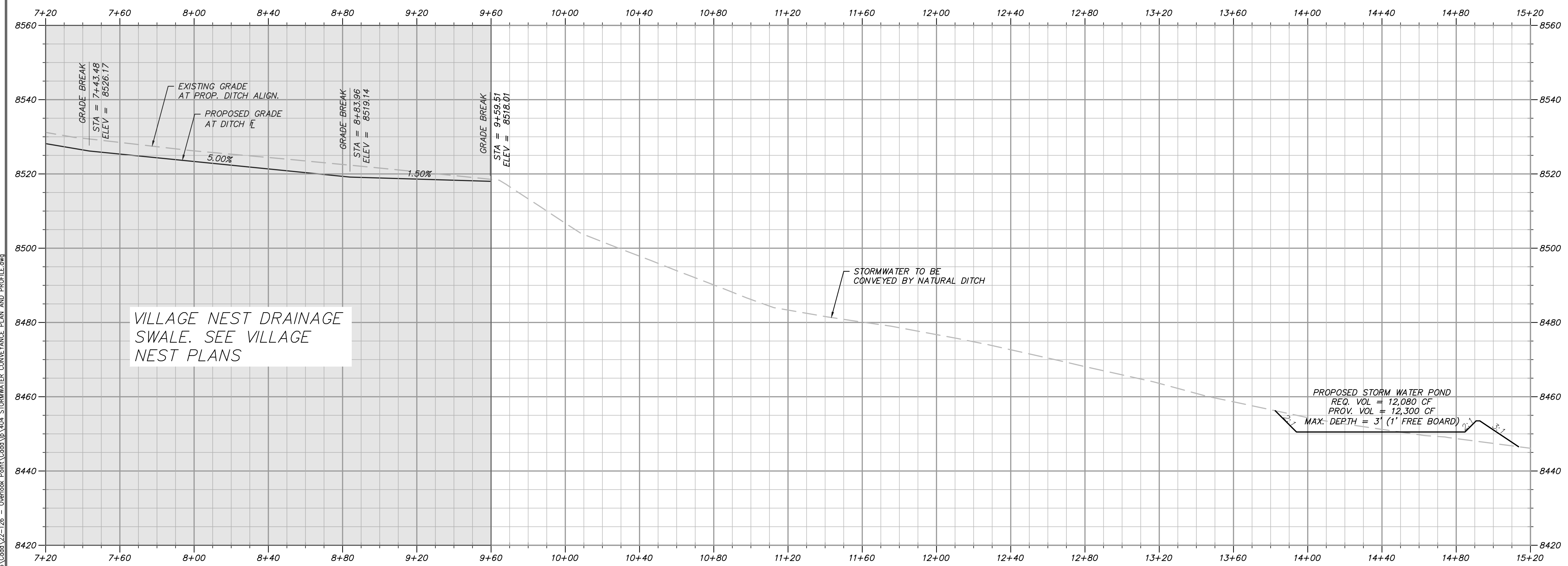
GRADING GENERAL NOTES:

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2. CONTRACTOR SHALL BECOME FAMILIAR WITH EXISTING SOIL CONDITIONS.
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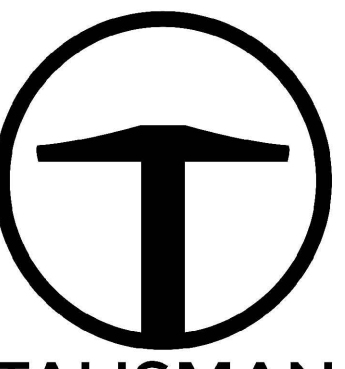
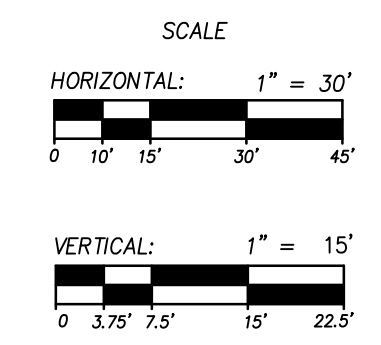
- XXXX - - - - - EXISTING ELEVATION CONTOURS
- XXXX - - - - - EXISTING ELEVATION CONTOURS
- XXXX - - - - - PROPOSED ELEVATION CONTOURS
- XXXX - - - - - PROPOSED ELEVATION CONTOURS

STORMWATER CONVEYANCE DITCH AND POND

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



PROFILE VIEW

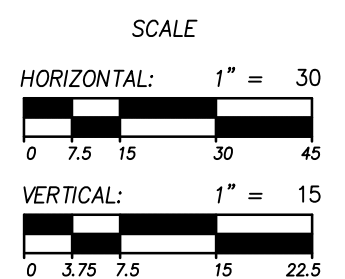
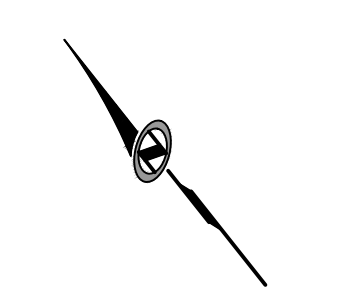


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SUITE 200
SALT LAKE CITY, UT 84115
801.743.1300

NO.	DATE	BY	REVISIONS

POWDER POINT
POWDER MOUNTAIN, UTAH
STORMWATER CONVEYANCE PLAN AND PROFILE

TCC JOB NUMBER: 22-126 DATE: 06.29.2023

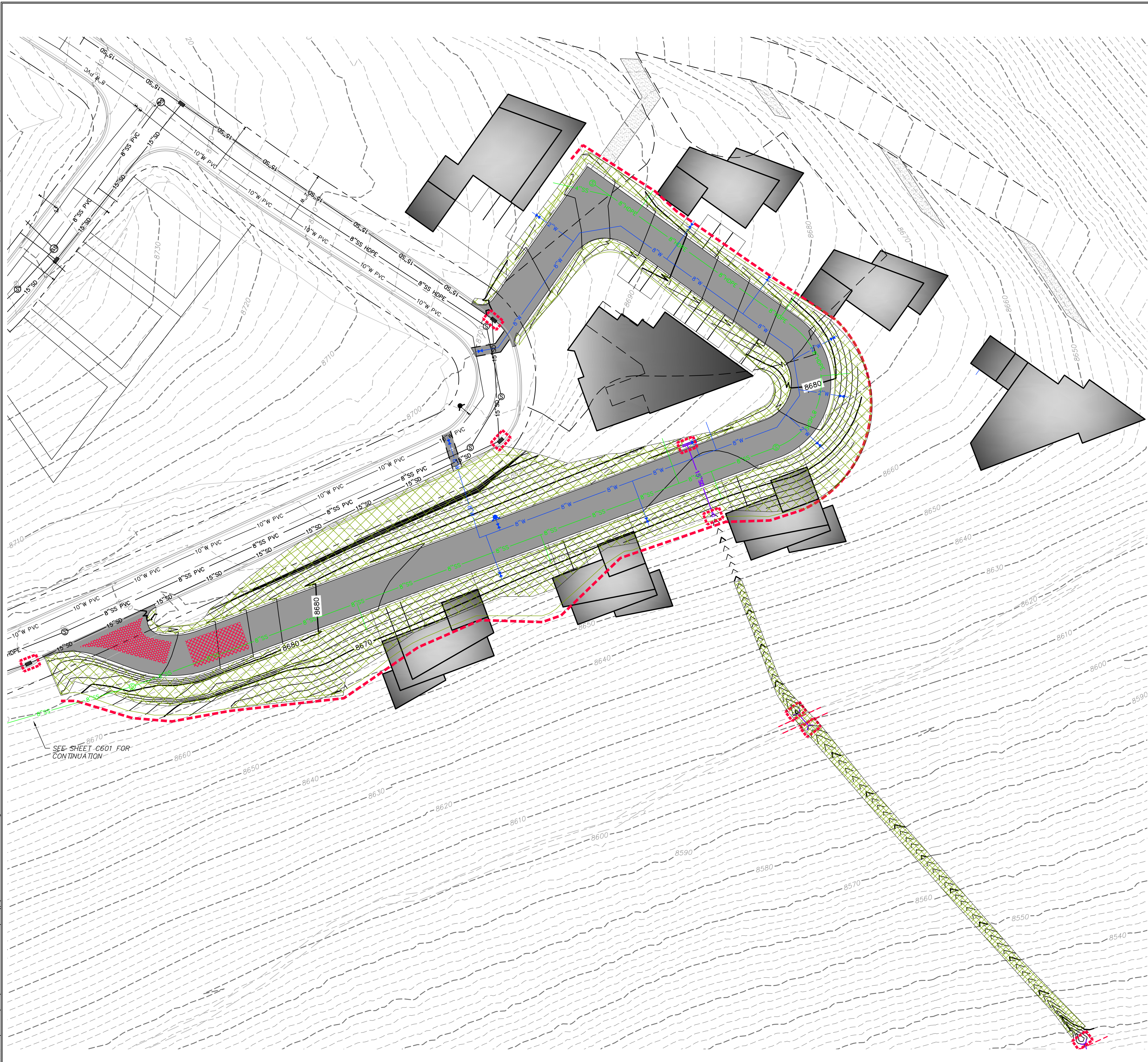


SHEET NUMBER
C503
9 OF 16



DATE: 12/22/2022

PATH: H:\SLEB0793\Code\22-126 - Overlook Point\Code\Job_V600 EROSION CONTROL PLAN.dwg



SEE SHEET C601 FOR CONTINUATION

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:

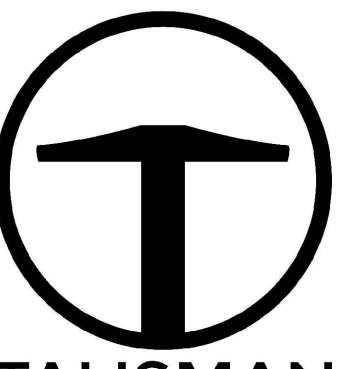
ANY DISTURBED AREAS AND/OR EXPOSED SLOPE THAT WILL REMAIN UNTOUCHED FOR LONGER THAN 14 DAYS MUST BE STABILIZED BY ONE OR MORE OF THE FOLLOWING METHODS:

- 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.



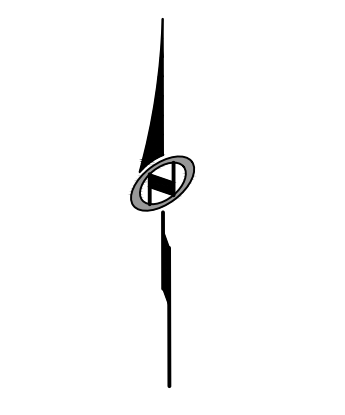
TALISMAN
CIVIL CONSULTANTS
1588 SOUTH MAIN STREET
SUITE 200
SALT LAKE CITY, UT 84115
801.743.1300

NO.	DATE	BY	REVISIONS

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

DATE: 06.29.2023

TCC JOB NUMBER: 22-126



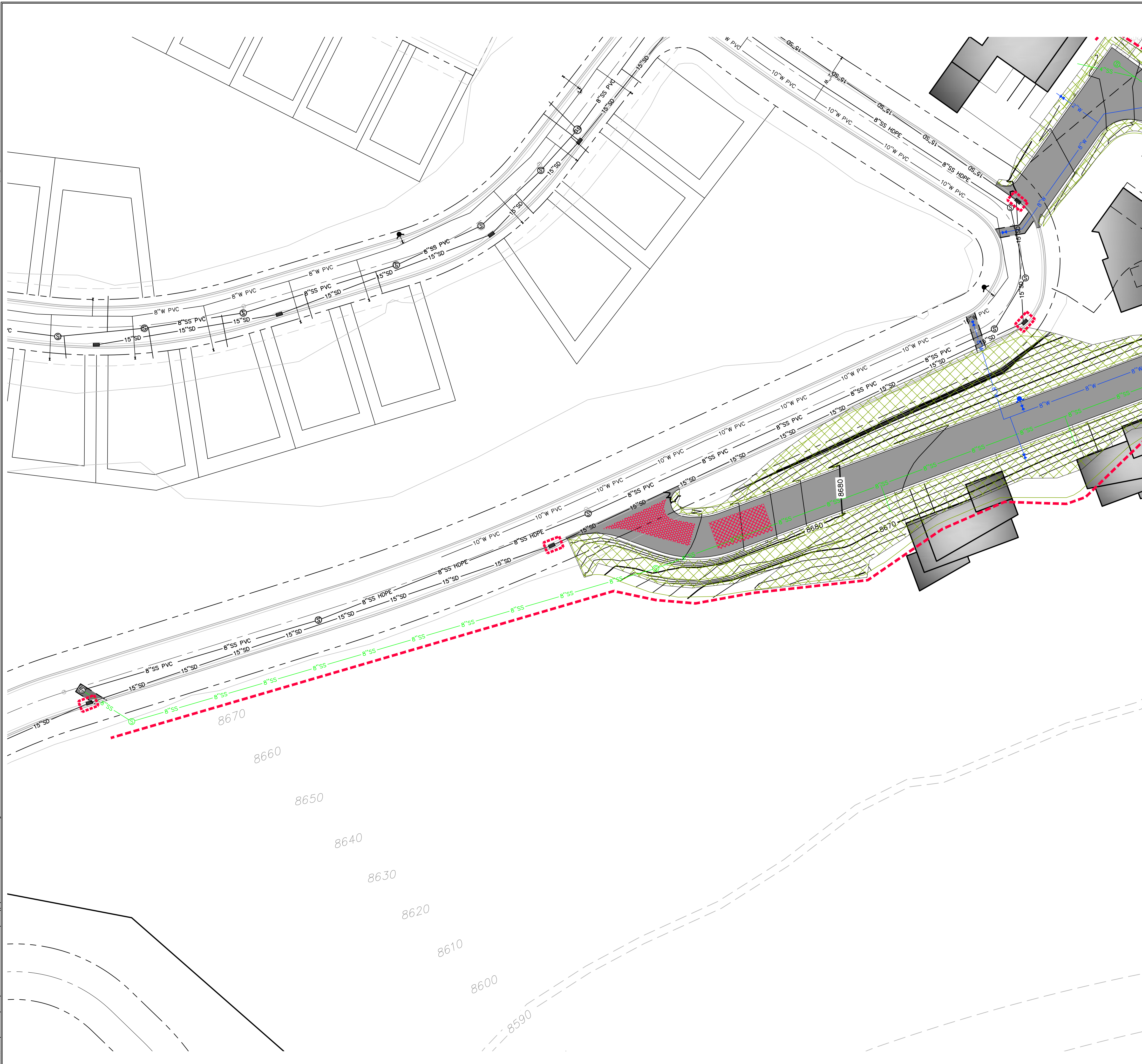
SCALE
HORIZONTAL: 1" = 30'
0 10' 15' 30' 45'

SHEET NUMBER
C600
11 OF 16



DATE: 12/22/2022

PATH: H:\SLB0783\Cadd\22-126 - Overlook Point\Cadd\Job_V601 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:

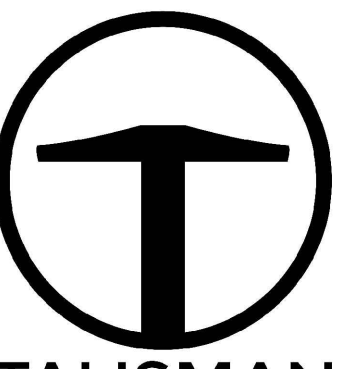
ANY DISTURBED AREAS AND/OR EXPOSED SLOPE THAT WILL REMAIN UNTOUCHED FOR LONGER THAN 14 DAYS MUST BE STABILIZED BY ONE OR MORE OF THE FOLLOWING METHODS:

- 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.



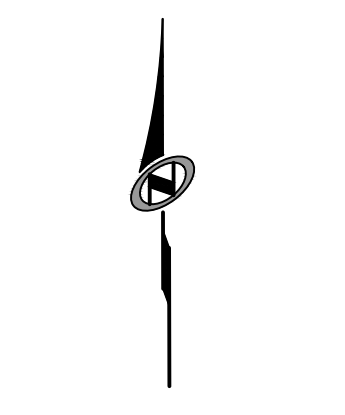
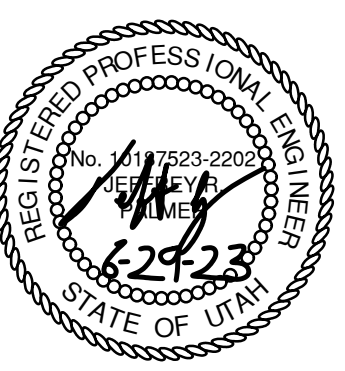
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801.743.1300

NO.	DATE	BY	REVISIONS

POWDER POINT
POWDER MOUNTAIN, UTAH
OFFSITE EROSION CONTROL PLAN

DATE: 06.29.2023

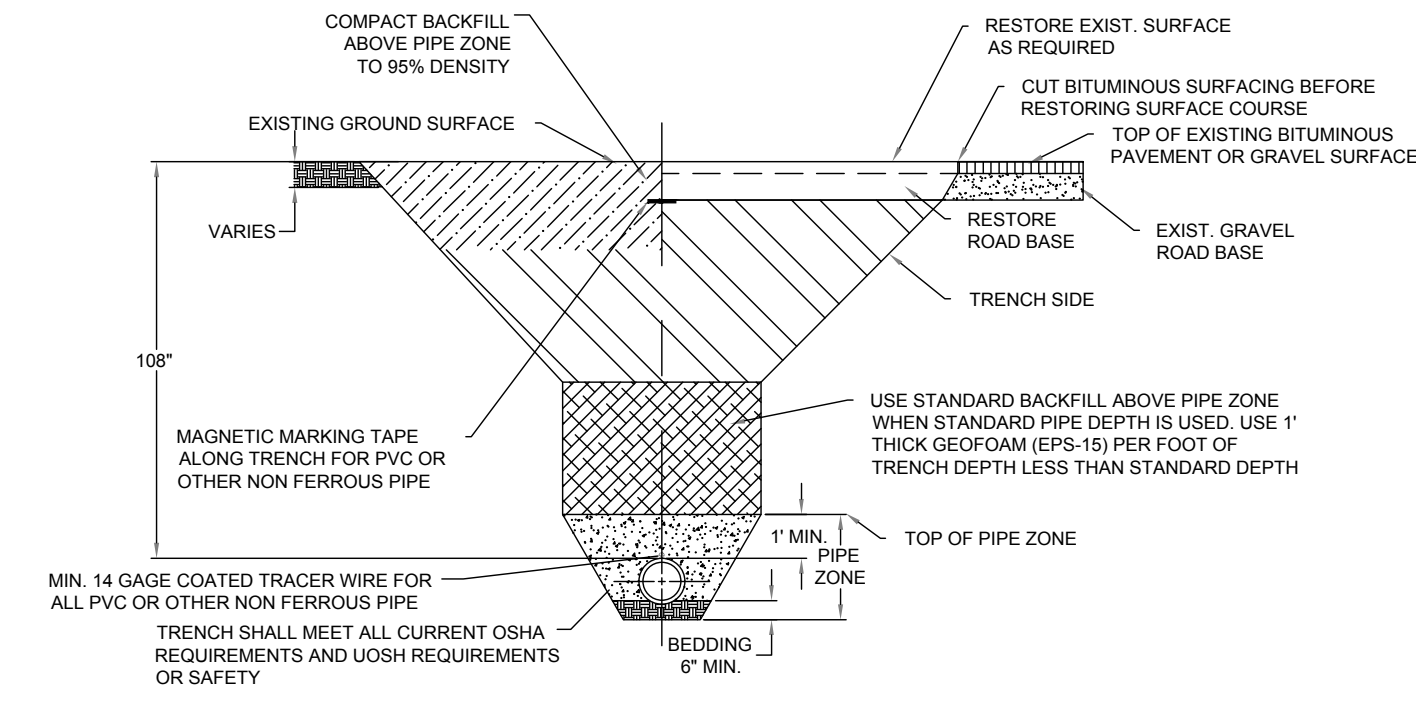
TCC JOB NUMBER: 22-126



SCALE
HORIZONTAL: 1" = 30'
0 10' 15' 30' 45'

SHEET NUMBER
C601
11 OF 16





CROSS-SECTION: TYPICAL TRENCH

SAFE BEARING LOADS

SOIL TYPE	SAFE BEARING LOAD (PSF)
SAND	1000
SAND & GRAVEL	1500
SAND & GRAVEL CEMENTED WITH CLAY SHALE	2000
	5000

SAFE BEARING LOAD FORMULA

THRUST ON FITTINGS

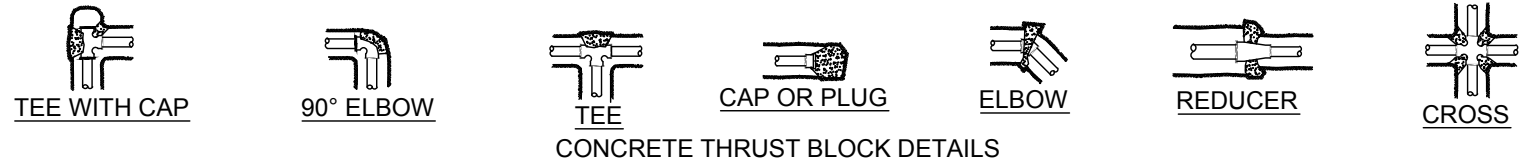
THRUST ON SAFE BEARING AREA AGAINST FITTING / LOAD OF SOIL (SQUARE FEET)

THRUST ON FITTINGS

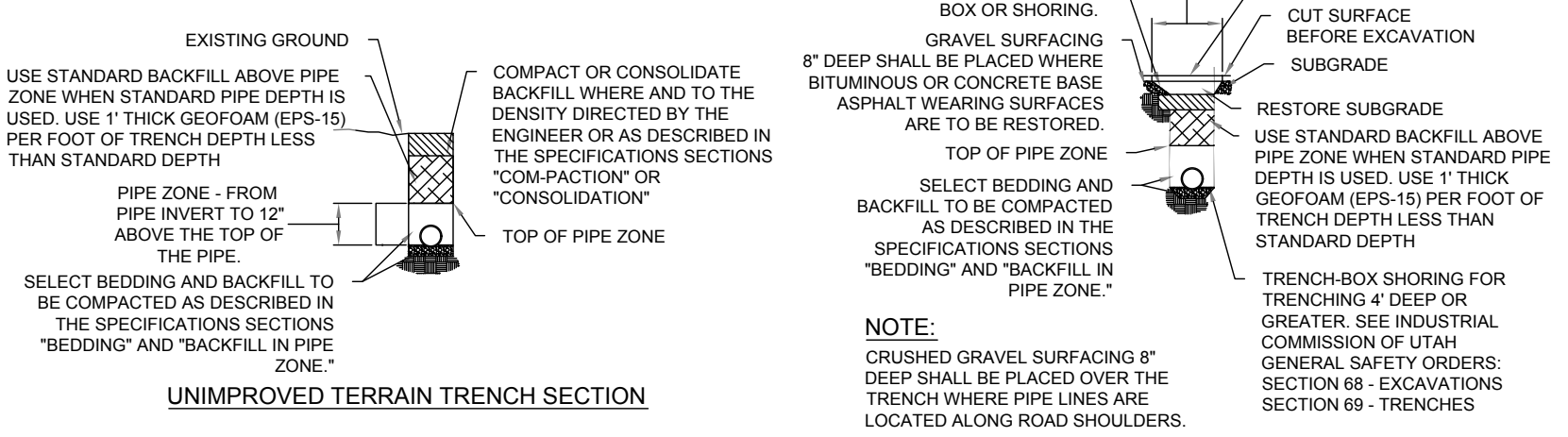
POUNDS @ 1' POUND PER SQUARE INCH OF WATER PRESSURE*

PIPE SIZE	TEES	90° BENDS	45° BENDS	22.5° BENDS
4"	18.5	28.1	14.2	7.2
6"	38	53.7	29.1	14.7
8"	65.8	93	50.4	25.5
10"	107.5	152	82.4	41.7
12"	153.1	216.4	117.2	59.4
14"	183.8	260.0	141.0	71.5
16"	237.8	336.3	162.8	92.7
18"	298.6	422.3	229.7	116.5

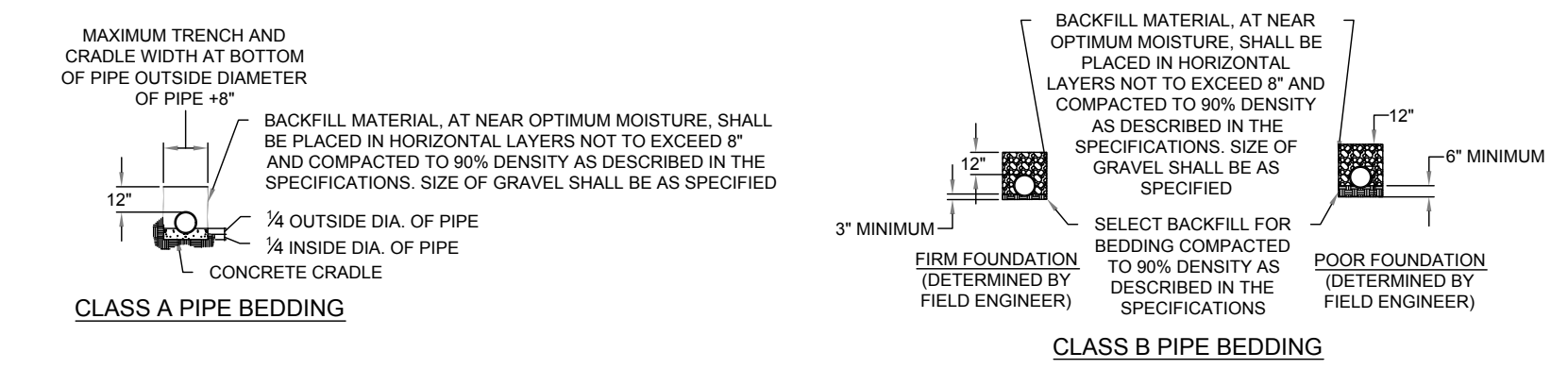
*MULTIPLY THRUST BY MAXIMUM WATER PRESSURE



- NOTES:**
1. WATER LINES 12 INCHES AND LARGER SHALL BE DUCTILE IRON CLASS-51.
 2. WATER LINES 10 INCHES AND SMALLER SHALL BE PVC AWWA C900 CLASS 200.
 3. VALVES 12 INCHES AND LARGER SHALL BE BUTTERFLY VALVES.
 4. WHENEVER POSSIBLE "HOT TAP" CONNECTIONS REQUIRED. HOT TAP VALVE TO BE SUPPORTED DURING CONNECTION. CONTRACTOR TO NOTIFY DISTRICT 24 HOURS IN ADVANCE OF MAKING CONNECTION.
 5. PIPE ZONE SHALL BE BACKFILLED WITH 3/4" GRAVEL MATERIAL.
 6. TRACING WIRE TO BE BROUGHT OUTSIDE OF BOTTOM PORTION OF VALVE BOX AND INSIDE TOP TO SURFACE.
 7. FURNISH AND INSTALL POLY-WRAP ON DUCTILE IRON PIPE. POLY-WRAP MAY BE DELETED WHERE DIRECTED BY DISTRICT ENGINEER.
 8. WHERE COLLAPSIBLE SOILS ARE ENCOUNTERED, FURNISH, PLACE AND COMPACT SUPPORTED BACKFILL MATERIALS AS REQUIRED AND AS DIRECTED.
 9. SEE DW-2 FOR PIPE BEDDING SPECIFICATIONS
 10. 9'-0" MINIMUM COVER REQUIRED OVER PIPE. COVER REQUIREMENT MAY BE REDUCED PER RECOMMENDATION BY APPROVED GEOTECHNICAL REPORT. IN NO CASE SHALL MINIMUM COVER OVER PIPE BE LESS THAN 7'-0". GEOTECHNICAL REPORT SHALL SPECIFICALLY ADDRESS FROST DEPTH AND PIPE FREEZING POTENTIAL.



UNIMPROVED TERRAIN TRENCH SECTION / IMPROVED TERRAIN TRENCH SECTION



CLASS A PIPE BEDDING / CLASS B PIPE BEDDING

PIPE DIAMETER	MINIMUM WIDTH	MAXIMUM WIDTH
4"	1'-0"	2'-0"
6"	1'-0"	2'-0"
8"	1'-8"	2'-8"
10"	2'-0"	3'-0"
12"	2'-0"	3'-0"
16"	2'-6"	3'-6"
18"	2'-6"	3'-6"



CLASS C PIPE BEDDING

WATERLINE TRENCH DETAIL

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

GILSON ENGINEERING
Consulting Engineers & Surveyors
12401 SOUTH 450 EAST BLDG. C, UNIT 2, SALT LAKE, UT 84020
PHONE: (801) 571-9414 FAX: (801) 571-9449
WWW.POWMOUNTAINUTAH.COM

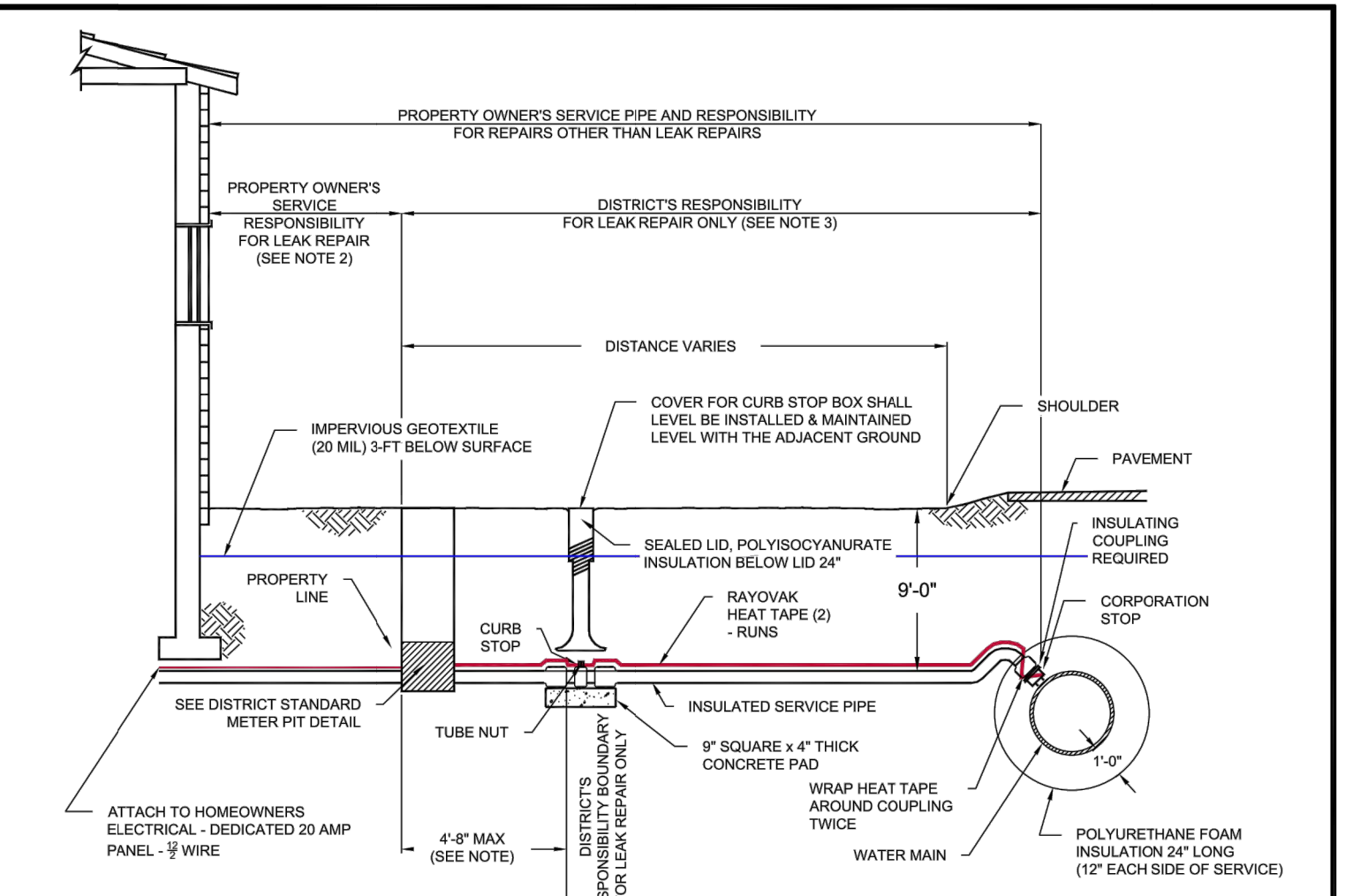
298 24th STREET, SUITE 150, OGDEN, UT 84401
PHONE: (801) 773-1191
WWW.POWMOUNTAINUTAH.COM

PIPE BEDDING SPECIFICATIONS

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

GILSON ENGINEERING
Consulting Engineers & Surveyors
12401 SOUTH 450 EAST BLDG. C, UNIT 2, SALT LAKE, UT 84020
PHONE: (801) 571-9414 FAX: (801) 571-9449
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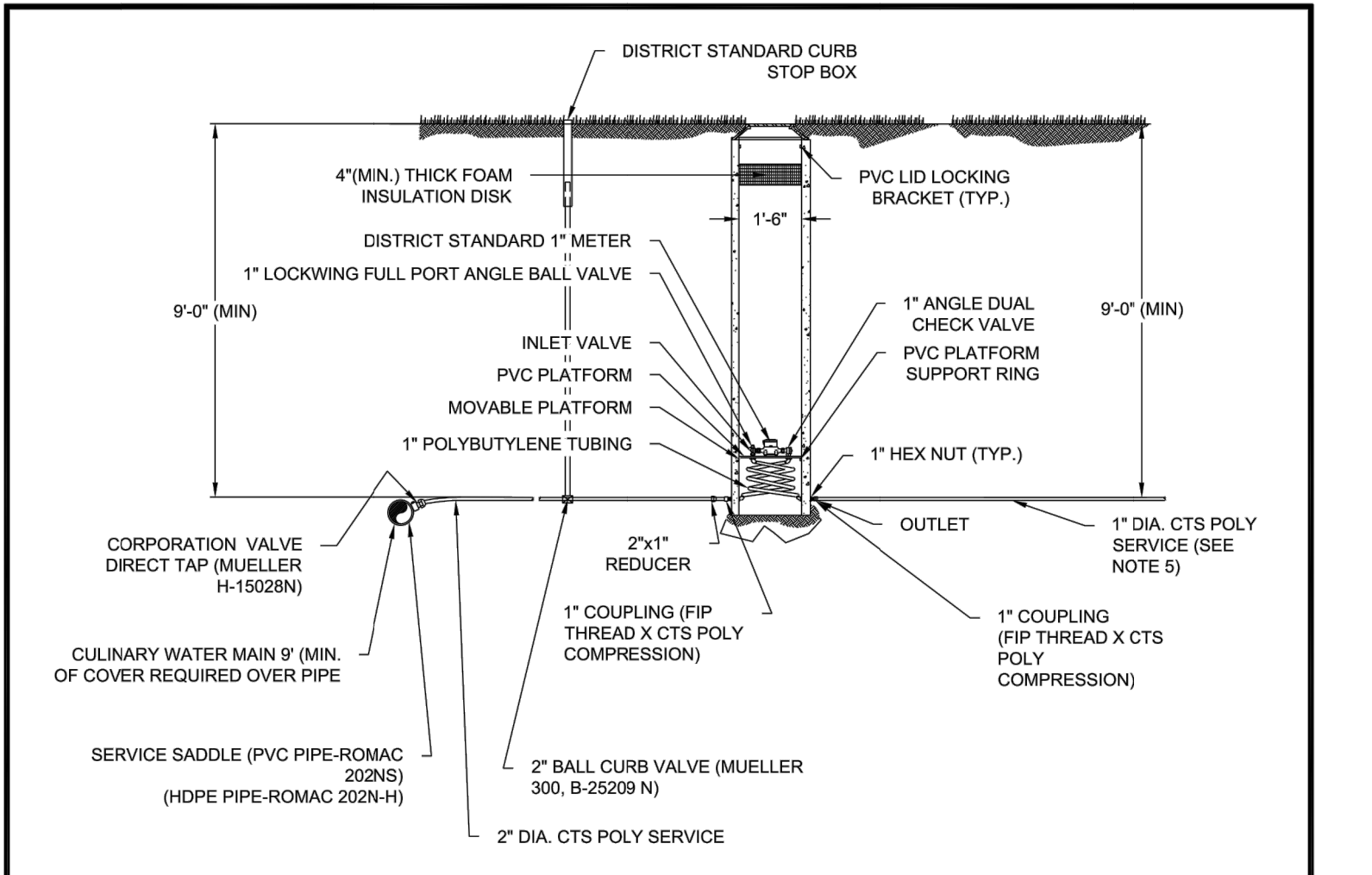


- NOTES:**
1. PLACEMENT OF CURB STOP SHALL BE A MAXIMUM OF 5 FEET OUTSIDE THE PROPERTY LINE INSIDE STREET RIGHT OF WAY.
 2. PROPERTY OWNER'S RESPONSIBILITY FOR LEAK REPAIR SHALL BE UP TO AND INCLUDING THE SERVICE PIPE WHICH THREADS ONTO THE WATER METER. PROPERTY OWNER'S RESPONSIBILITY FOR REPAIRS OTHER THAN LEAKS EXTENDS TO THE CORPORATION STOP.
 3. DISTRICT'S RESPONSIBILITY SHALL BE THE WATER MAIN, THE CORPORATION STOP, CURB STOP, WATER METER, AND WHERE NEEDED, THE DOUBLE STRAP TAPPING SADDLE. THE DISTRICT WILL ONLY REPAIR LEAKS OCCURRING BETWEEN THE CORPORATION STOP AND THE WATER METER.
 4. SEE STANDARD DETAIL WT-1 AND WT-2 FOR WATER TRENCH REQUIREMENTS
 5. NO LATERAL ARE TO BE INSTALLED WITHIN 5' OF BEDROCK
 6. 12" THICK CLAY CUTOFF AT EACH END OF WATER SERVICE INSULATION FROM IMPERVIOUS GEOTEXTILE TO BOTTOM OF TRENCH
 7. INSULATED SERVICE PIPE: SERVICE LINE ENCASED IN 8" SEAMLESS HDPE WITH CLOSED-CELL CROSS - LINKED POLYETHYLENE FOAM AND HEAT TAPE
 8. 9'-0" MINIMUM COVER REQUIRED OVER PIPE. COVER REQUIREMENT MAY BE REDUCED PER RECOMMENDATION BY APPROVED GEOTECHNICAL REPORT. IN NO CASE SHALL MINIMUM COVER OVER PIPE BE LESS THAN 7'-0". GEOTECHNICAL REPORT SHALL SPECIFICALLY ADDRESS FROST DEPTH AND PIPE FREEZING POTENTIAL.

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

GILSON ENGINEERING
Consulting Engineers & Surveyors
12401 SOUTH 450 EAST BLDG. C, UNIT 2, SALT LAKE, UT 84020
PHONE: (801) 571-9414 FAX: (801) 571-9449
WWW.POWMOUNTAINUTAH.COM

POWDER MOUNTAIN WATER AND SEWER IMPROVEMENT DISTRICT
298 24th STREET, SUITE 150, OGDEN, UT 84401
PHONE: (801) 773-1191
WWW.POWMOUNTAINUTAH.COM



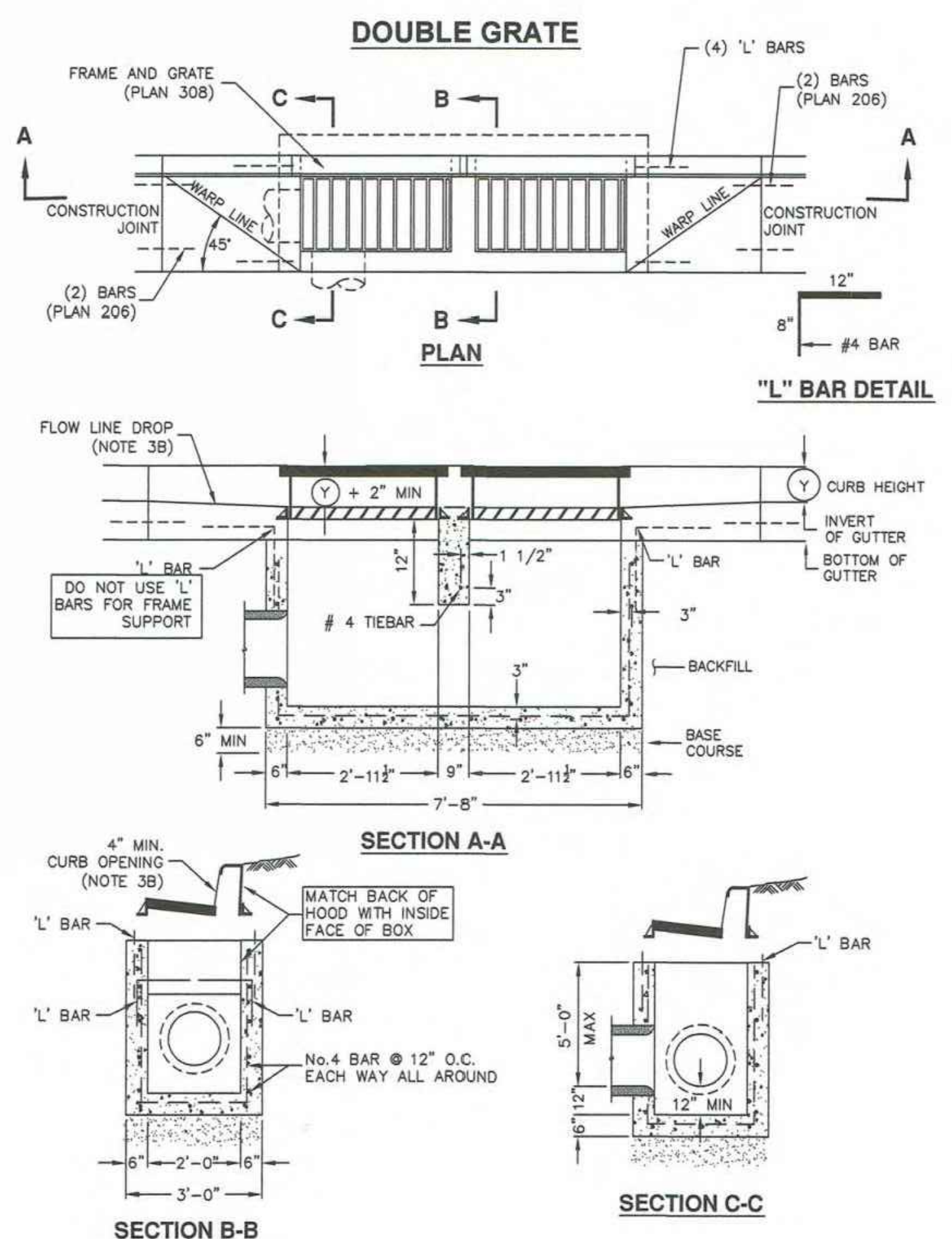
- NOTES:**
1. METER BOXES SHALL BE 18" DIA. BY 96" DEEP MUELLER-THERMAL-COIL PVC BOXES FOR 1" SINGLE METERS (MUELLER 330CS1896FBSN)
 2. POLYETHYLENE PIPE FOR WATER SERVICES SHALL BE PE 3408 TUBING, SDR-8, COPPER TUBING SIZE AND NSF APPROVED FOR POTABLE WATER.
 3. METER SHALL BE INSTALLED IN HORIZONTAL ALIGNMENT, WITH METER FACING UP, ONLY.
 4. ALL PIPE, FITTING, AND VALVES SHALL COMPLY WITH NSF STANDARD NO. 14 FOR USE WITH POTABLE WATER.
 5. THE CUSTOMER IS RESPONSIBLE FOR PROPERLY SIZING THE SERVICE TO DELIVER FLOWS REQUIRED FOR FIRE SPRINKLER SYSTEMS. THE SERVICE FROM THE METER TO THE BUILDING CAN BE UPIZED FROM 1" DIAMETER IF NECESSARY. CONNECTING FIRE SPRINKLER LINES TO THE 2" SERVICE BEFORE THE METER MAY BE APPROVED BY THE DISTRICT ENGINEER ONLY IF THE REQUIRED FIRE SPRINKLER CANNOT BE DELIVERED THROUGH THE METER.
 6. THE DEVELOPER IS RESPONSIBLE FOR INSTALLATION OF THE SERVICE FROM THE MAIN TO THE METER BOX, INCLUDING THE SERVICE SADDLE, CORP STOP, CURB STOP BOX, AND METER BOX.
 7. BASED UPON OBSERVATIONS DURING WINTER CONDITIONS, THE DISTRICT HAS DETERMINED THAT 9' (MIN) OF COVER OVER WATER MAINS AND SERVICES IS REQUIRED TO PROTECT AGAINST FREEZING.

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

GILSON ENGINEERING
Consulting Engineers & Surveyors
12401 SOUTH 450 EAST BLDG. C, UNIT 2, SALT LAKE, UT 84020
PHONE: (801) 571-9414 FAX: (801) 571-9449
WWW.POWMOUNTAINUTAH.COM

POWDER MOUNTAIN WATER AND SEWER IMPROVEMENT DISTRICT
298 24th STREET, SUITE 150, OGDEN, UT 84401
PHONE: (801) 773-1191
WWW.POWMOUNTAINUTAH.COM

315.2



DOUBLE GRATE / Catch basin / Plan 315.2 / September 2010



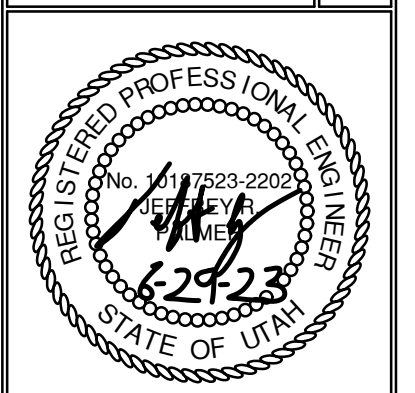
TALISMAN CIVIL CONSULTANTS
1588 SOUTH MAIN STREET
SUITE 200
SALT LAKE CITY, UT 84115
801.743.1300

REVISED	
DATE	
BY	
NO.	

DATE: 06.29.2023

**POWDER POINT
POWDER MOUNTAIN, UTAH
DETAILS**

TCC JOB NUMBER:



Plan 315.2
September 2010

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

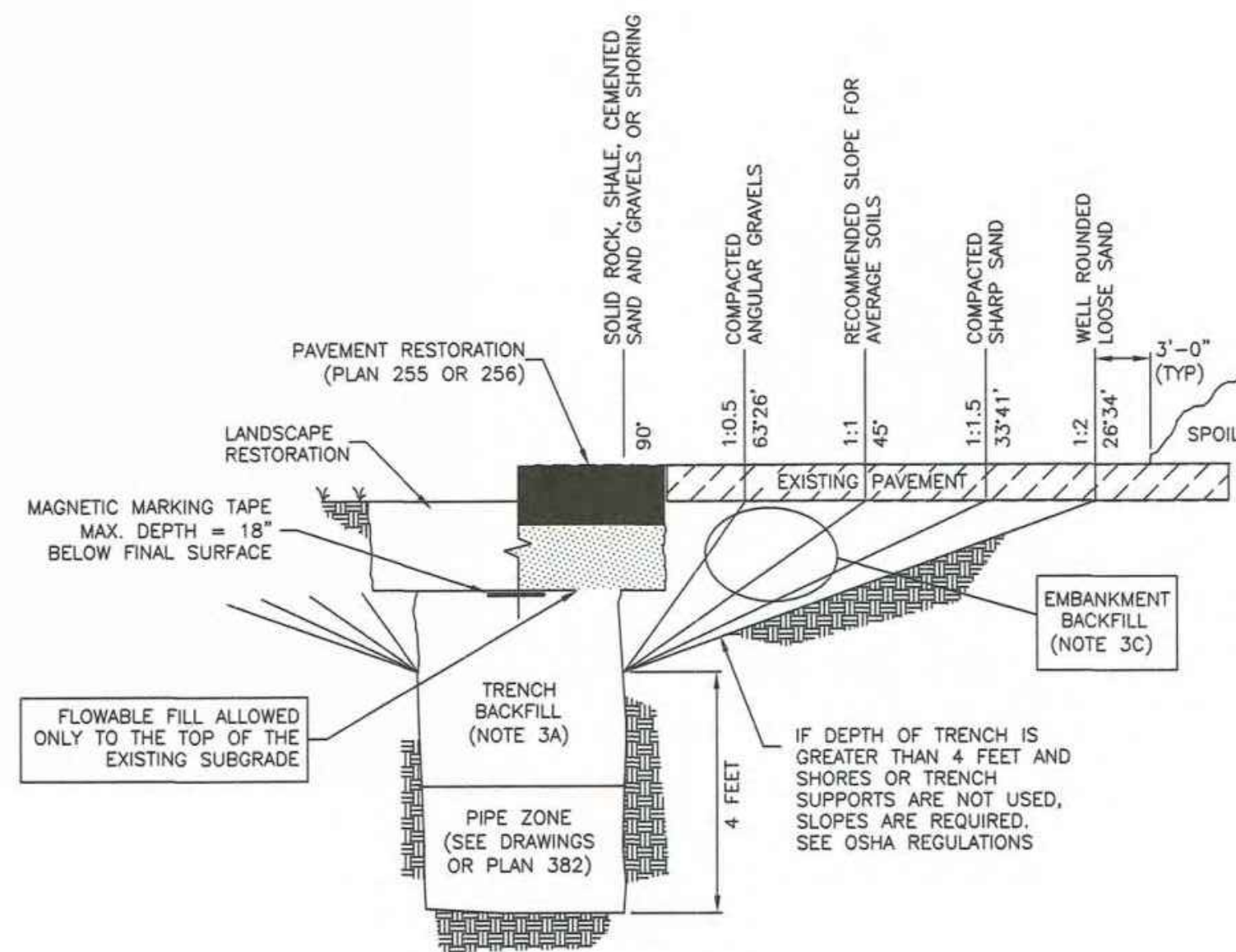
- 1. GENERAL
 - A. Install the pipe in the center of the trench or no closer than 6-inches from the wall of the pipe to the wall of the trench.
- 2. PRODUCTS
 - A. Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel as a base course without ENGINEER's permission.
 - B. Backfill: 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

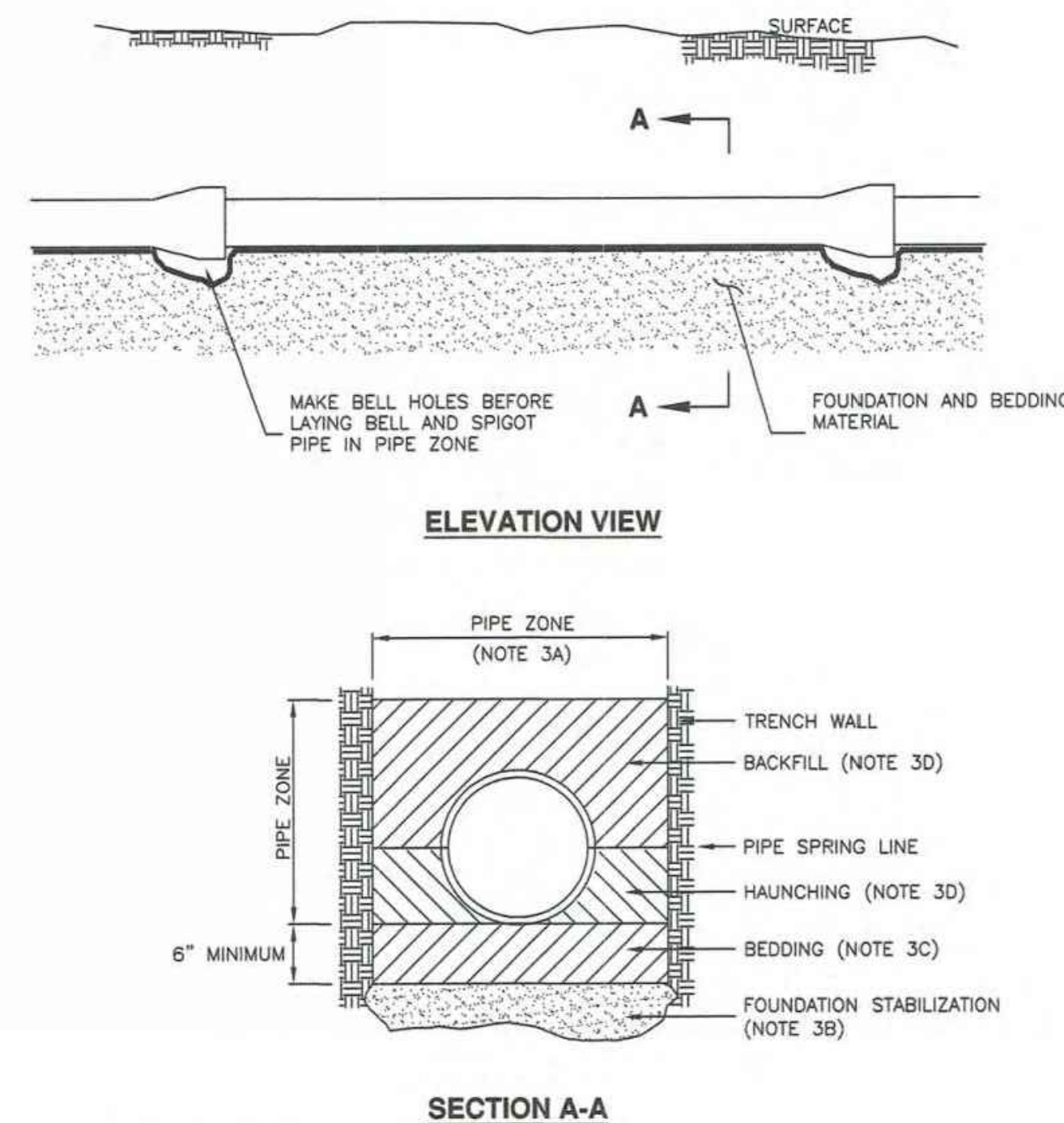
- 1. GENERAL
 - A. Round concrete pipe application.
 - B. Additional requirements are specified in APWA Section 33 05 02.
- 2. PRODUCTS
 - A. Use the same quality of precast end section as the pipe.
 - B. Use the joint material and connection that is the same as the joints in the pipeline.
- 3. EXECUTION
 - 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.



382



INSTALLATION

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

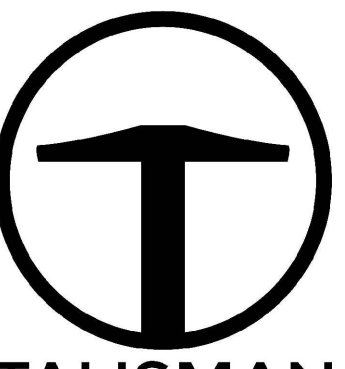
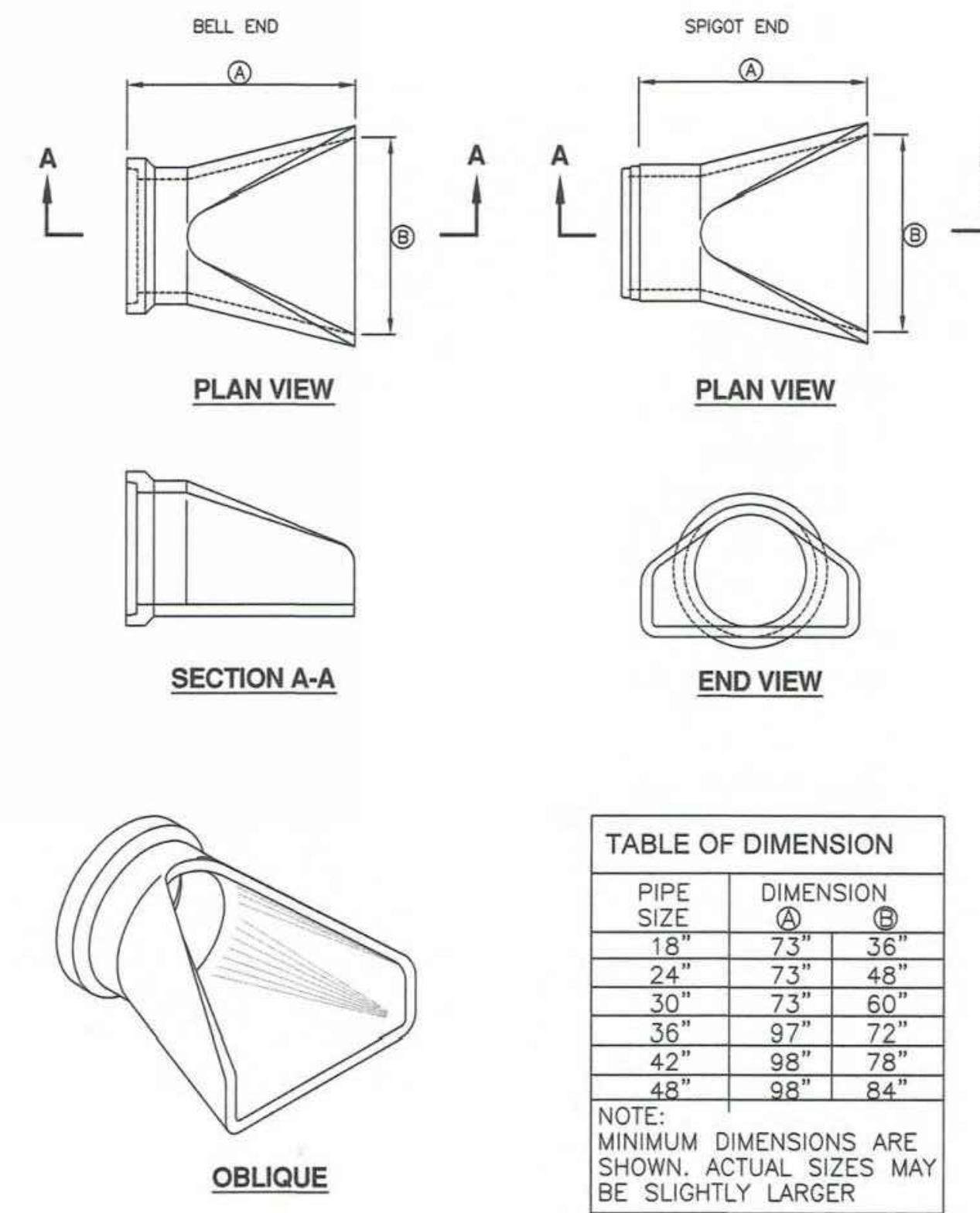
PLASTIC PIPE: FOLLOW ASTM D 2321
 STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY-FLOW APPLICATIONS

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.

323.1

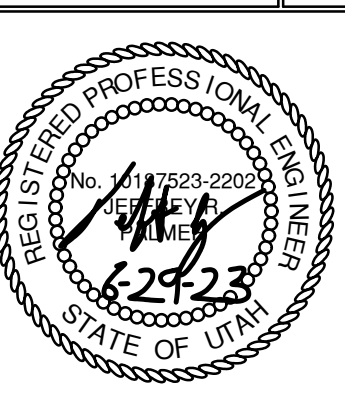
ROUND WITH FLARE



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
DETAILS
DATE: 06.29.2023
TCC JOB NUMBER: 22-126



Trench backfill

Plan 381
July 2016



Pipe zone backfill

Plan 382
January 2011



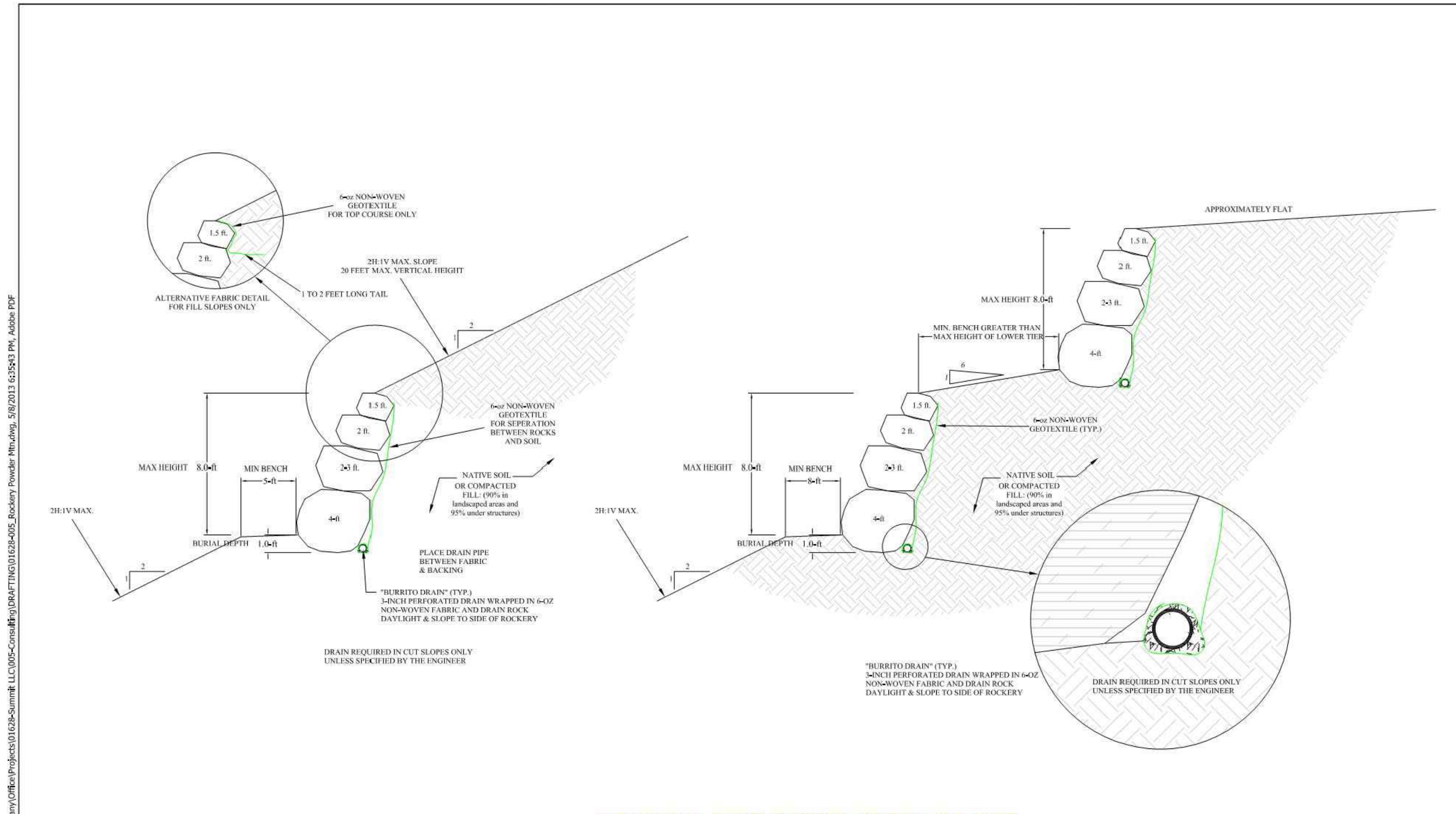
Pipe outfall

Plan 323.1
November 2010



SHEET NUMBER
C701

13 OF 16



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

MARK	REVISIONS	DATE	BY	CHK

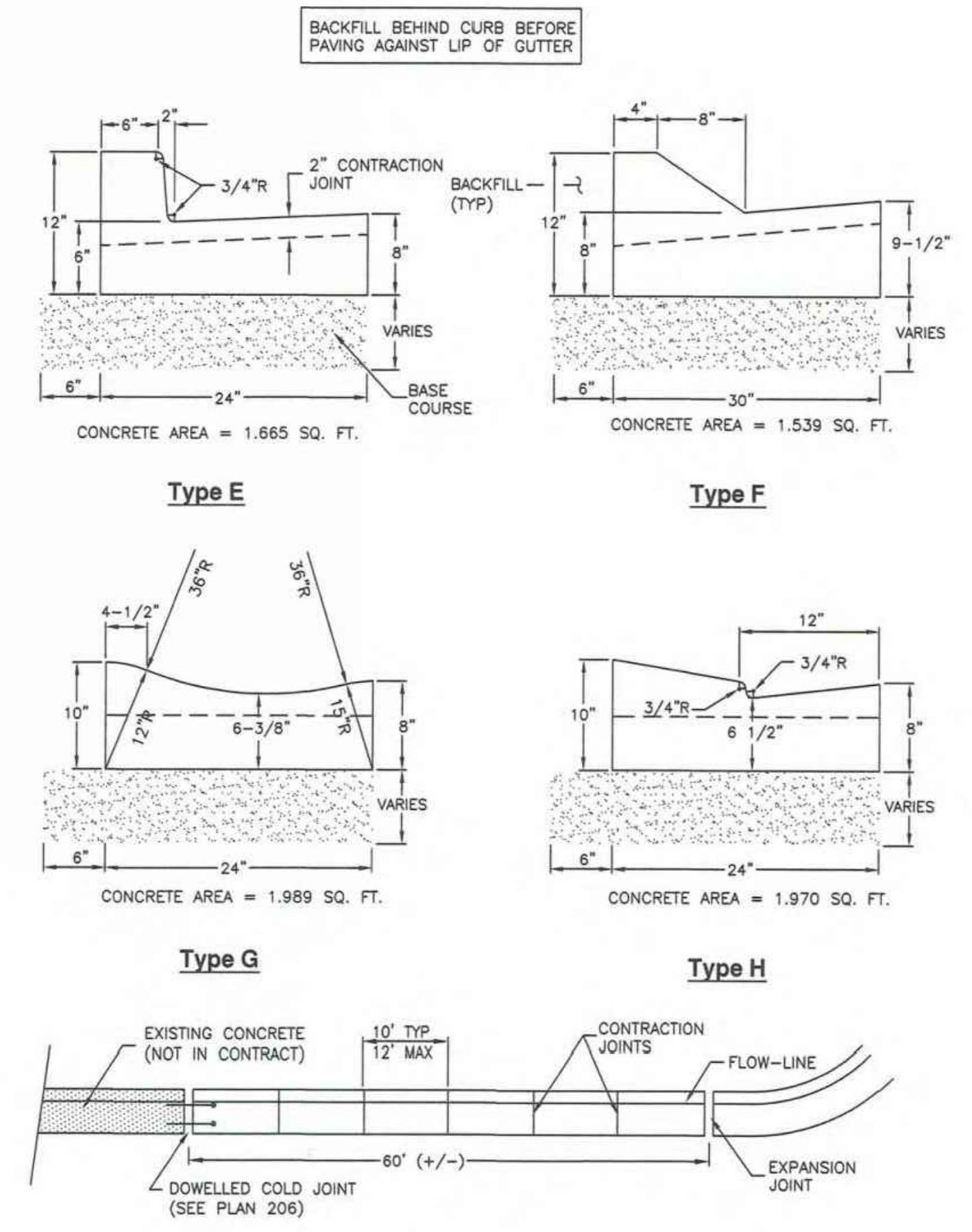
IGES
12429 SOUTH 300 EAST, STE. 100
DRAPER, UTAH 84020
(801) 748-4044 FAX: (801) 748-4045

ROCKERY CONSTRUCTION GUIDELINES
POWDER MOUNTAIN RESORT
WEBER COUNTY, UTAH
CONCEPTUAL SECTION VIEW

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



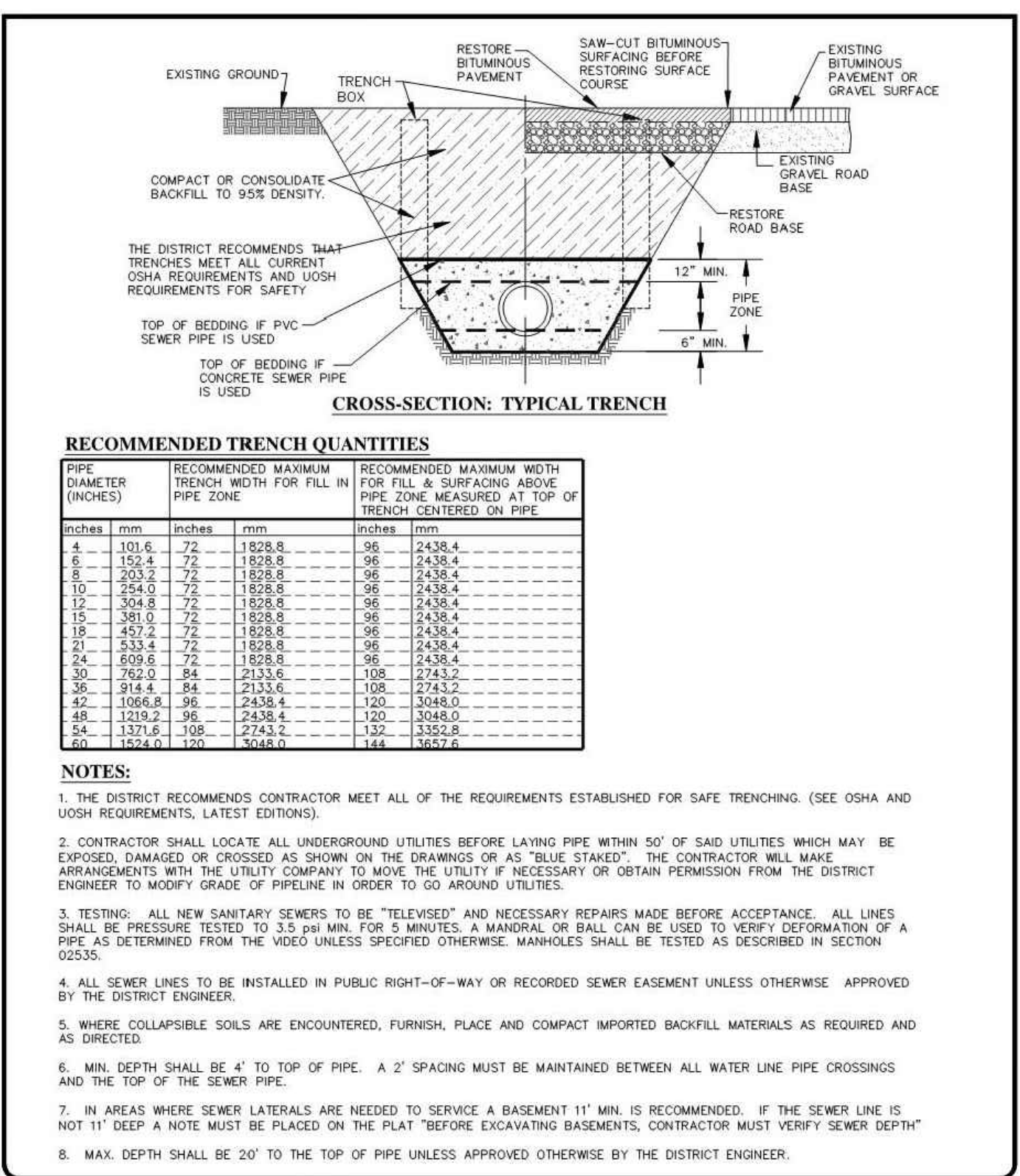
JOINT DETAIL
Curb and gutter



Plan 205.2
April 2011

Curb and gutter

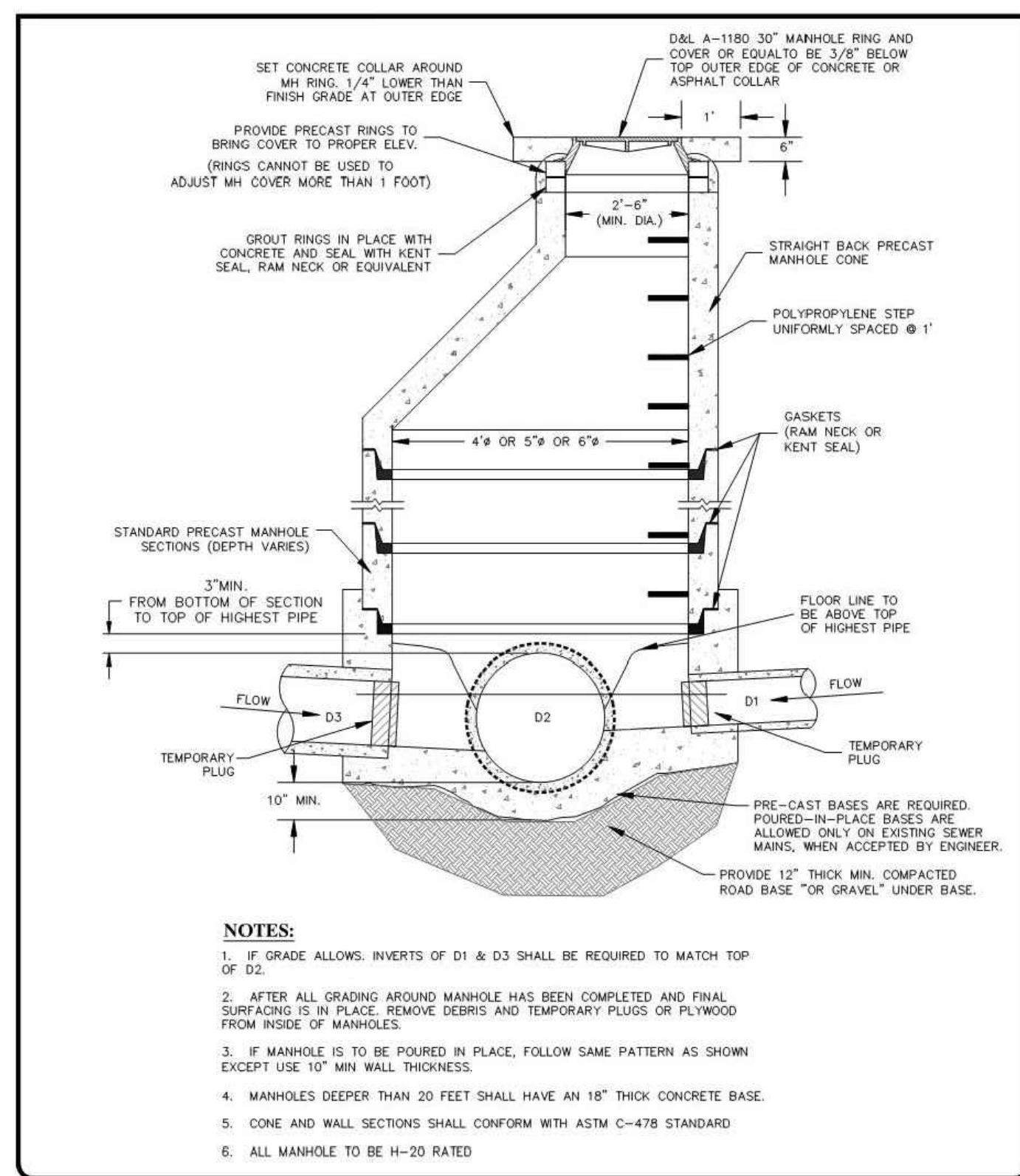
- GENERAL**
 - A. Variance from specified dimensions and slopes must be acceptable to the ENGINEER. System configuration may be changed at ENGINEER'S discretion.
 - B. Additional requirements are specified in APWA Section 32 16 13.
- PRODUCTS**
 - A. Base Course: Untreated base course, APWA Section 32 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. Concrete Curing Agent: Clear membrane forming compound with fugitive dye (Type ID Class A), APWA Section 03 39 00.
- 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.
 - 1) 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.
 - 2) 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.
 - 3) 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.



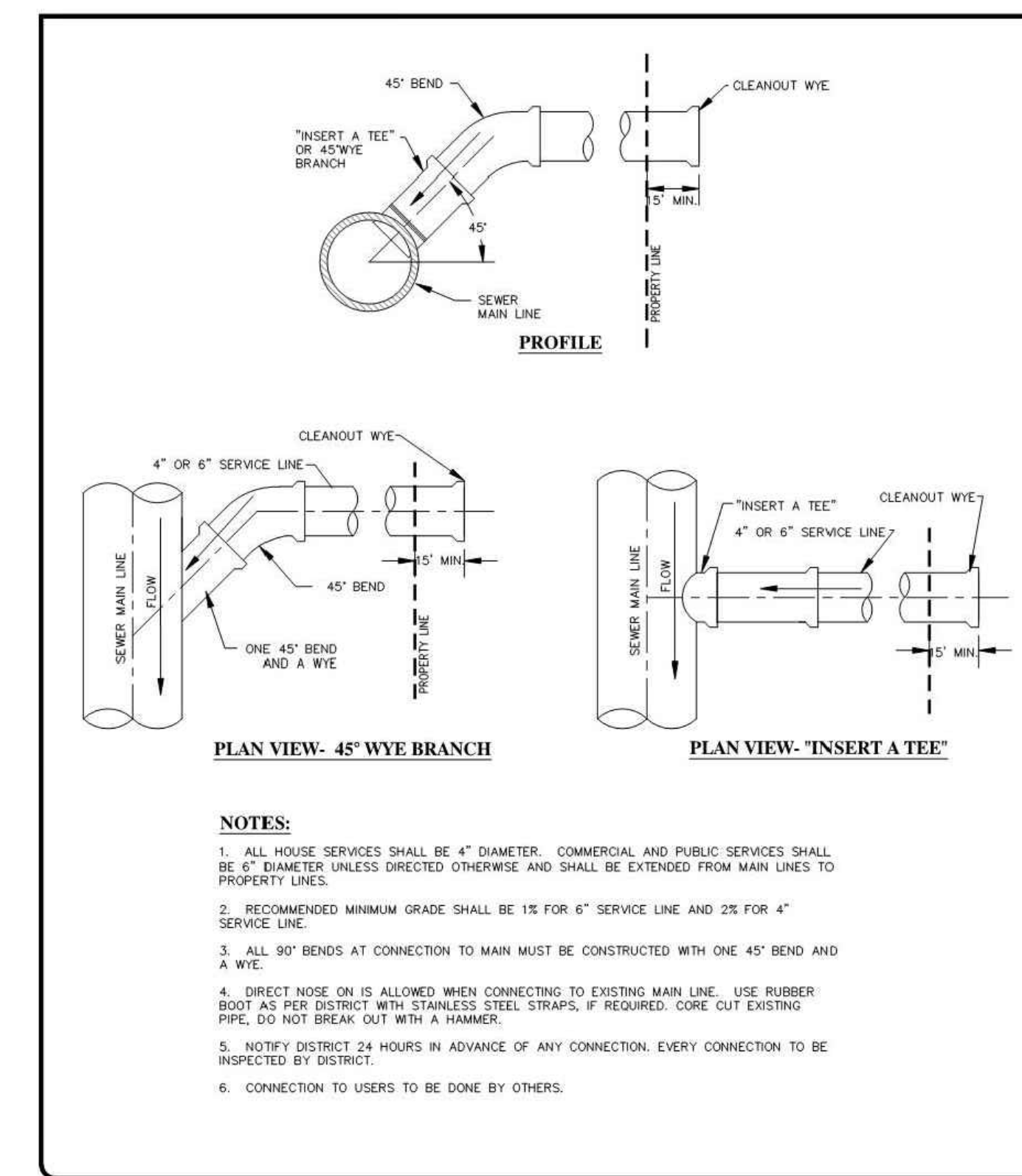
RECOMMENDED TRENCH QUANTITIES

PIPE DIAMETER (INCHES)	RECOMMENDED MAXIMUM TRENCH WIDTH FOR FILL IN PIPE ZONE	RECOMMENDED MAXIMUM WIDTH FOR FILL & SURFACING ABOVE PIPE ZONE (MEASURED AT TOP OF TRENCH CENTERED ON PIPE)
4	120.0	152.0
6	155.4	187.8
8	203.2	235.6
10	244.0	276.4
12	304.8	337.2
15	381.0	413.4
18	457.2	489.6
21	533.4	565.8
24	609.6	642.0
30	762.0	794.4
36	914.4	946.8
42	1066.8	1099.2
48	1219.2	1251.6
54	1371.6	1404.0
60	1524.0	1556.4

- NOTES:**
- THE DISTRICT RECOMMENDS CONTRACTOR MEET ALL OF THE REQUIREMENTS ESTABLISHED FOR SAFE TRENCHING (SEE OSHA AND USFH 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 2011
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 84040
PHONE: (801) 571-9444 FAX: (801) 571-9444
28 JON STREET, SUITE 100, OGDEN, UT 84401
PHONE: (801) 775-1100
WWW.GILSON.UT

SANITARY SEWER MANHOLE
DATE: APRIL 2011
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 84040
PHONE: (801) 571-9444 FAX: (801) 571-9444
28 JON STREET, SUITE 100, OGDEN, UT 84401
PHONE: (801) 775-1100
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SEWER SERVICE CONNECTION
DATE: APRIL 2011
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 84040
PHONE: (801) 571-9444 FAX: (801) 571-9444
28 JON STREET, SUITE 100, OGDEN, UT 84401
PHONE: (801) 775-1100
WWW.GILSON.UT

205.3



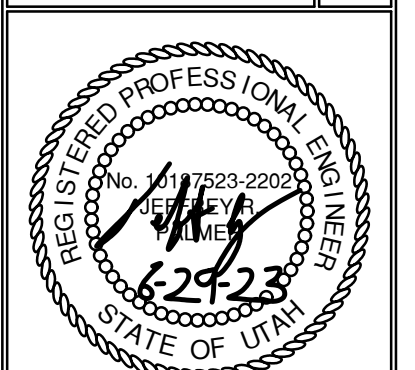
TALISMAN
CIVIL CONSULTANTS
1588 SOUTH MAIN STREET
SUITE 200
SALT LAKE CITY, UT 84115
801.743.1300

REVISED	DATE	BY	NO.

DATE: 06.29.2023

**POWDER POINT
POWDER MOUNTAIN, UTAH
DETAILS**

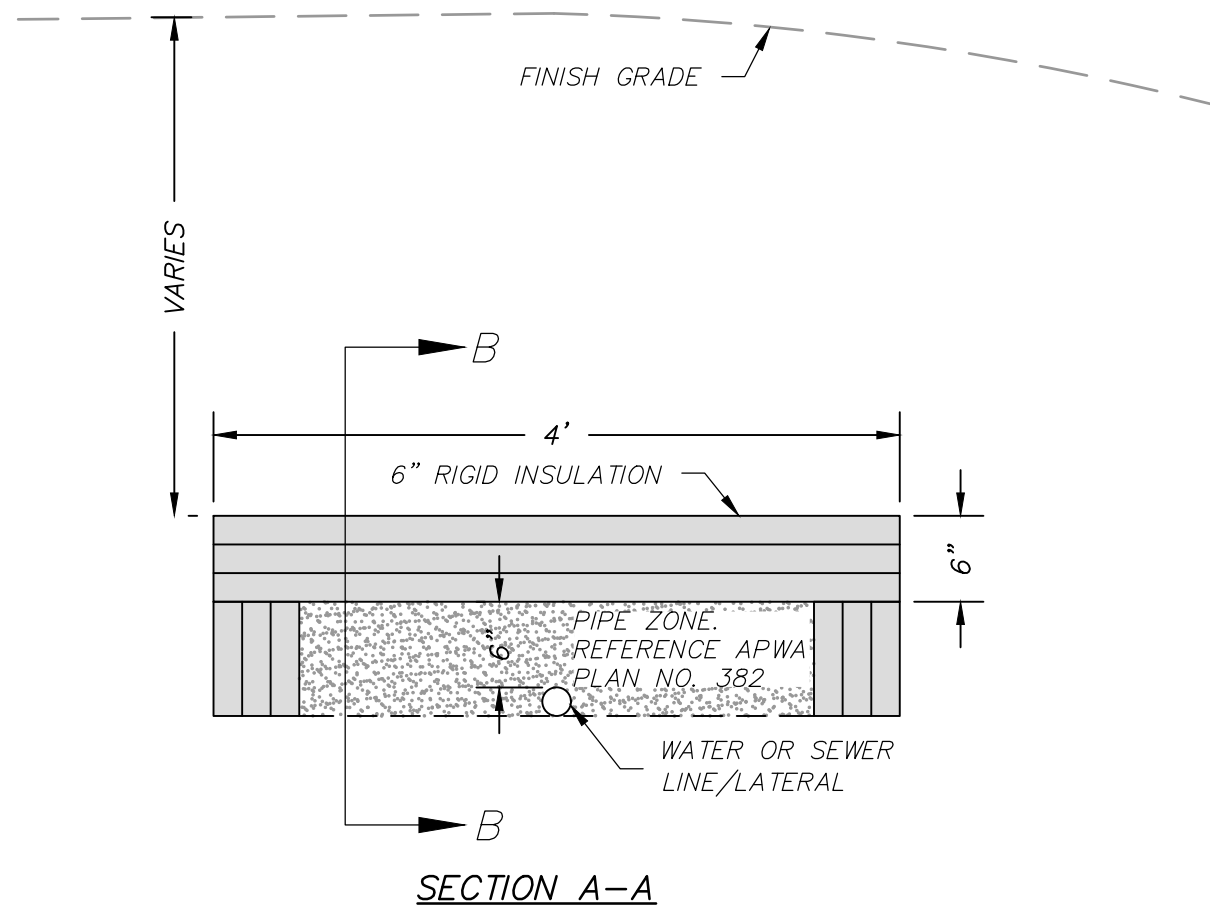
TCC JOB NUMBER: 22-126



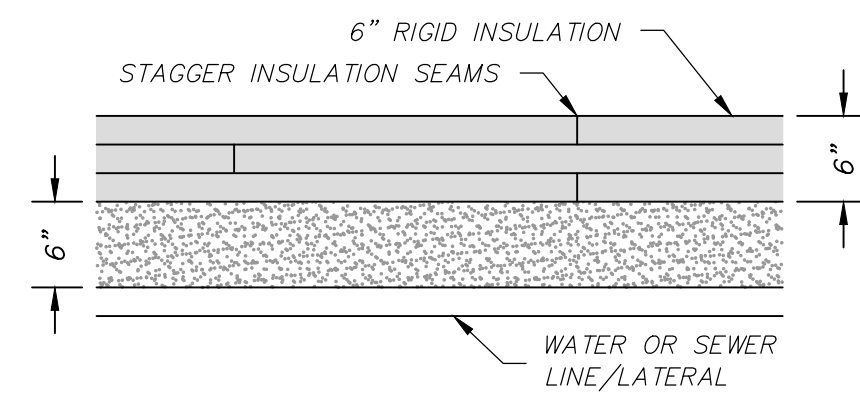
SHEET NUMBER
C702
14 OF 16

DATE: 12/22/2022

PATH:

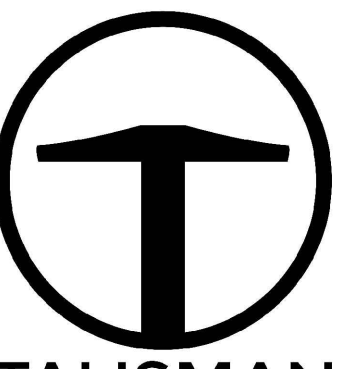


SECTION A-A



SECTION B-B

PIPE INSULATION
 SCALE: N.T.S.

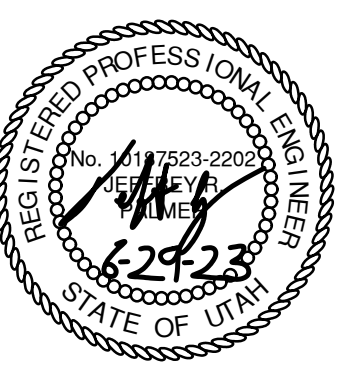


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 1588 SOUTH MAIN STREET
 SUITE 200
 SALT LAKE CITY, UT 84115
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NO.	BY	DATE	REVISIONS

POWDER POINT
POWDER MOUNTAIN, UTAH
DETAILS

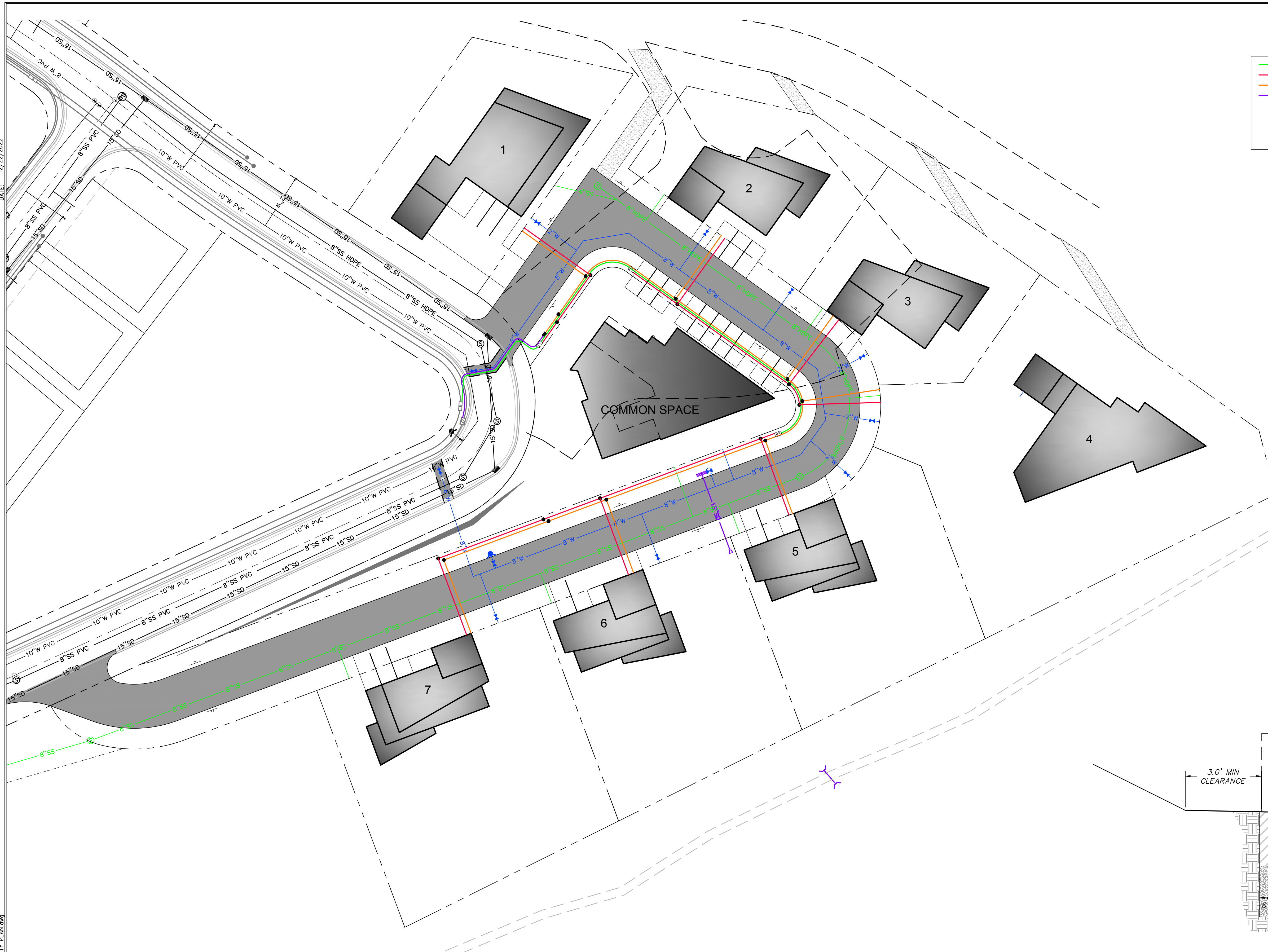
TCC JOB NUMBER: 22-126 DATE: 06.29.2023



SHEET NUMBER
C703
 15 OF 16

DATE: 12/22/2022

PATH: H:\SLEB0793\Cadd\122-126 - Overlook Point\Cadd\122-126 DRY UTILITY PLAN.dwg



LEGEND

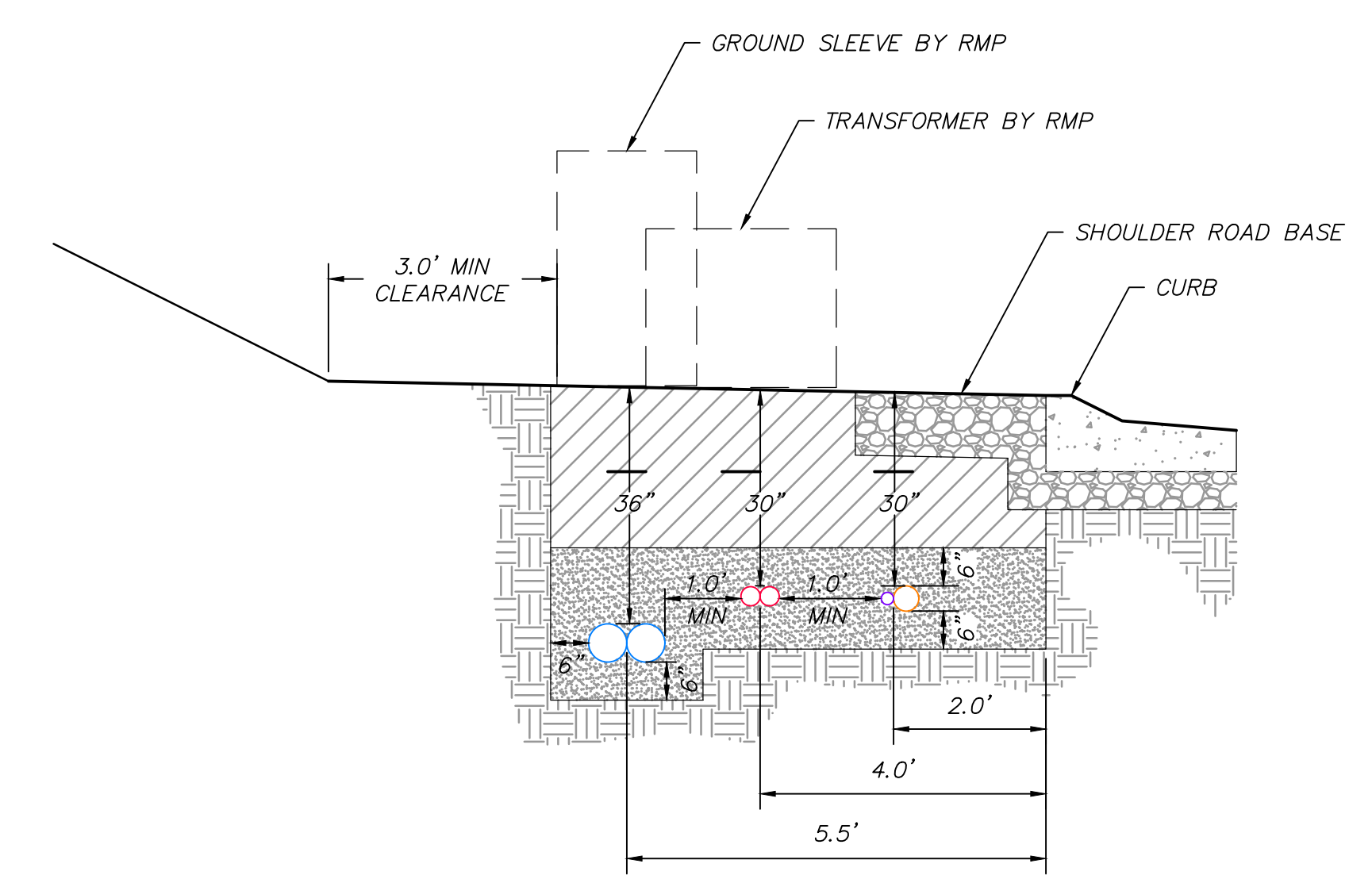
- 3" CONDUIT (PRIMARY ELECTRICAL, 36" COVER)
- 3" CONDUIT (SECONDARY ELECTRICAL, 30" COVER)
- 2" CONDUIT (COMMUNICATIONS, 30" COVER)
- 4" CONDUIT (COMMUNICATIONS, 30" COVER)
- FUTURE RMP TRANSFORMER
- FUTURE RMP SERVICE BOX
- 17"x30" COMM BOX (OLDCASTLE POLYMER 1730)
- 10" COMM BOX (CARSON 910)

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

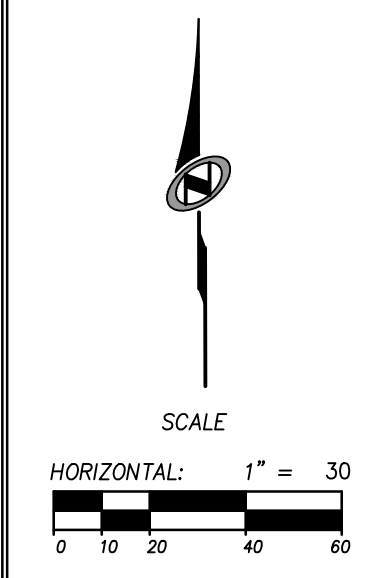
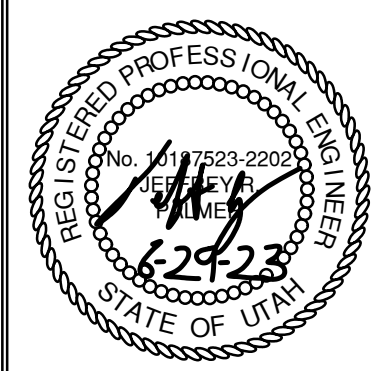


NOTES:

- * 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



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