

# SANTAQUIN WEST MEETING HOUSE CENTER

1544 SOUTH SAGEBERRY DR, SANTAQUIN, UTAH COUNTY 84655



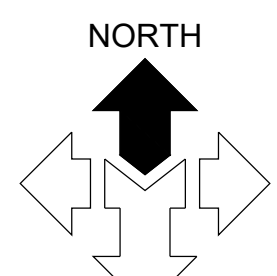
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**OWNER / DEVELOPER:** Church of Jesus Christ of Latter Day Saints

**CONTACT INFO:**  
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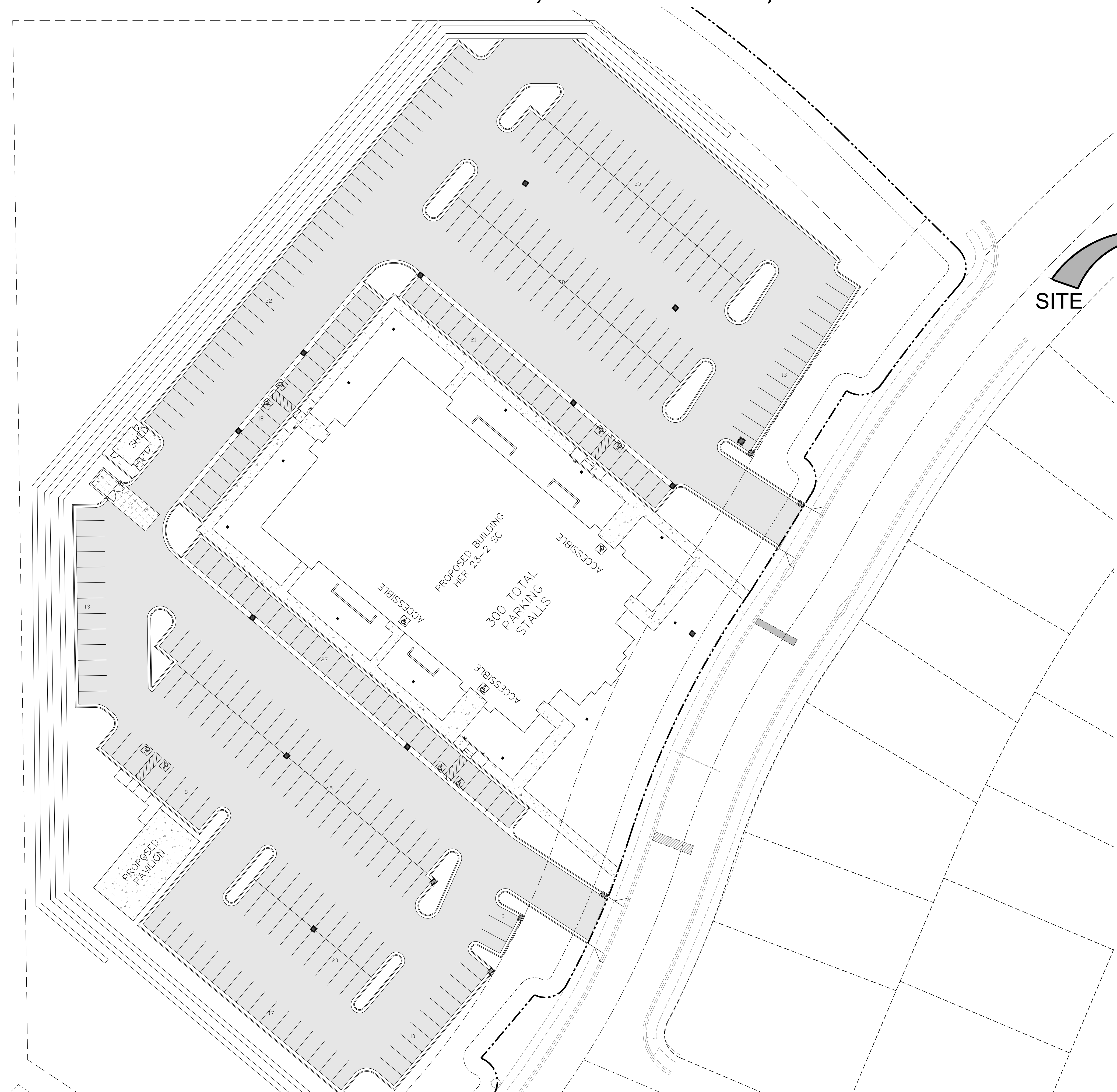


SCALE: 1" = 30'



VICINITY MAP  
N.T.S.

SITE



**DRAWING INDEX**

SHEET	DESCRIPTION
C0.00	CIVIL COVER SHEET
C0.01	GENERAL NOTES, LEGEND AND ABBREVIATIONS
C1.01	CIVIL SITE PLAN
C2.01	GRADING AND DRAINAGE PLAN
C4.01	SITE UTILITY PLAN
C5.01	CIVIL DETAILS
C5.02	CIVIL DETAILS
C5.03	CIVIL DETAILS
C5.04	CIVIL DETAILS
C5.05	CIVIL DETAILS
C5.06	CIVIL DETAILS

ALL WORK AND MATERIALS FOR WATER MUST CONFORM TO THE CITY OF SANTAQUIN PUBLIC WORKS STANDARDS AND SPECIFICATIONS

ALL WORK AND MATERIALS FOR SEWER MUST CONFORM TO THE CITY OF SANTAQUIN PUBLIC WORKS STANDARDS AND SPECIFICATIONS

ALL WORK AND MATERIALS MUST CONFORM TO APWA STANDARDS AND SPECIFICATIONS

THE DEVELOPER AND THE GENERAL CONTRACTOR UNDERSTAND THAT IT IS HIS / HER RESPONSIBILITY TO ENSURE THAT ALL IMPROVEMENTS INSTALLED WITHIN THIS DEVELOPMENT ARE CONSTRUCTED IN FULL COMPLIANCE WITH ALL STATE AND SANTAQUIN CITY CODES, ORDINANCES AND STANDARDS. THESE PLANS ARE NOT ALL INCLUSIVE OF ALL MINIMUM CODES, ORDINANCES AND STANDARDS. THIS FACT DOES NOT RELIEVE THE DEVELOPER OR GENERAL CONTRACTOR FROM THE FULL COMPLIANCE WITH ALL MINIMUM STATE AND SANTAQUIN CITY CODES, ORDINANCES AND STANDARDS.

ALL RECOMMENDATIONS MADE IN A PERTINENT GEOTECHNICAL REPORT / STUDY SHALL BE FOLLOWED EXPLICITLY DURING CONSTRUCTION OF BUILDINGS AND SITE IMPROVEMENTS.

SANTAQUIN WEST MEETING HOUSE

1544 SOUTH SAGEBERRY DRIVE  
SANTAQUIN, UTAH COUNTY, UTAH 84655

**JOB NUMBER:** 501-2698  
**OWNER:** Church of Jesus Christ of Latter Day Saints  
**DATE:** 09.13.2024

REV DATE DESCRIPTION

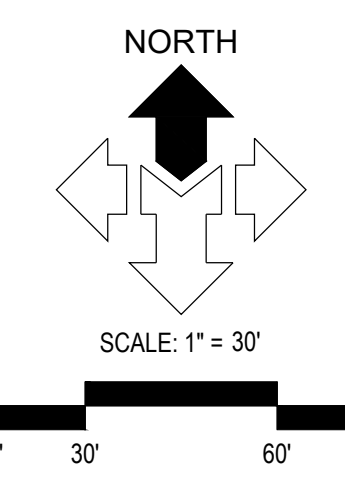
CIVIL COVER

**C0.00**









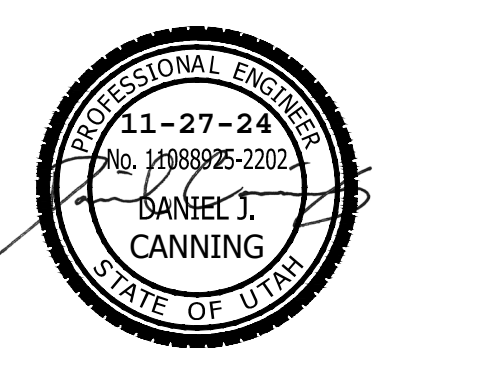
DESCRIPTION	AREA	%
HARDSCAPE	121,103 SQFT	38%
LANDSCAPE	173,991 SQFT	55%
BUILDINGS	24,148 SQFT	8%
TOTAL	319,242 SQFT	100%

**GENERAL NOTES:**  
 ALL DIMENSIONS ARE TO THE FACE OF CURB, UNLESS OTHERWISE NOTED  
 SEE ARCHITECT'S SITE PLAN FOR ADDITIONAL INFORMATION  
 SEE LANDSCAPE PLANS FOR IRRIGATION AND PLANTING  
 ALL WORK TO COMPLY WITH GOVERNING AGENCY'S STANDARDS AND SPECIFICATIONS  
 ALL IMPROVEMENTS MUST COMPLY WITH ADA STANDARDS AND RECOMMENDATIONS.

- KEYED NOTES:**  
 PROVIDE, INSTALL AND/OR CONSTRUCT THE FOLLOWING PER THE SPECIFICATIONS GIVEN OR REFERENCED AND THE DETAILS NOTED AND AS SHOWN ON THE CONSTRUCTION DRAWINGS:
- 1 STANDARD DUTY ASPHALT PAVEMENT WITH GRANULAR BASE PER STANDARD CHURCH DETAIL, SEE DETAIL 'A', SHEET C5.01.
  - 2 ASPHALT T-PATCH, PER APWA PLAN NO. 255.
  - 3 CONCRETE PAVEMENT WITH GRANULAR BASE PER STANDARD CHURCH DETAIL, SEE DETAIL 'B', SHEET C5.01.
  - 4 CONCRETE SIDEWALK, PER STANDARD CHURCH DETAIL, SEE DETAILS 'C' AND 'D', SHEET C5.01.
  - 5 ADA ACCESSIBLE RAMP, PER APWA STANDARD PLAN 236.3.
  - 6 ADA ACCESSIBLE PARKING STALL SIGN, PER STANDARD CHURCH DETAIL, SEE DETAIL 'A', SHEET C5.02.
  - 7 PAINTED ADA ACCESSIBLE PARKING SYMBOL, PER STANDARD CHURCH DETAIL, SEE DETAIL 'B', SHEET C5.02.
  - 8 4" WIDE SOLID YELLOW PARKING STALL STRIPE LINES.
  - 9 4" WIDE SOLID YELLOW PEDESTRIAN STRIPE LINES.
  - 10 DUMPSTER ENCLOSURE, PER STANDARD CHURCH DETAIL, SEE DETAILS 'B, C, D, AND E', SHEET C5.03. SEE ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION AND DETAILS.
  - 11 MECHANICAL ENCLOSURE, PER STANDARD CHURCH DETAIL, SEE DETAILS 'F, G, H, AND J', SHEET C5.03. SEE ARCHITECTURAL AND MECHANICAL PLANS FOR ADDITIONAL INFORMATION AND DETAILS.
  - 12 RECREATIONAL PAVILION, SEE ARCHITECTURAL PLANS FOR DETAILS.
  - 13 24" CONCRETE CURB AND GUTTER - IN FLOW STYLE PER STANDARD CHURCH DETAIL, SEE DETAIL 'E', SHEET C5.01.
  - 14 24" CONCRETE CURB AND GUTTER - OUT FLOW STYLE PER STANDARD CHURCH DETAIL, SEE DETAIL 'F', SHEET C5.01.
  - 15 NEW RETAINING WALL, WALL DESIGN, DETAILS, AND REINFORCEMENT BY OTHERS. SEE GRADING PLAN SHEET C2.01 FOR ELEVATIONS.
  - 16 NEW DRIVE APPROACH PER APWA STANDARD PLAN 222.
  - 17 36" WIDE CONCRETE WATERWAY, PER STANDARD CHURCH DETAIL, SEE DETAIL 'H', SHEET C5.01.



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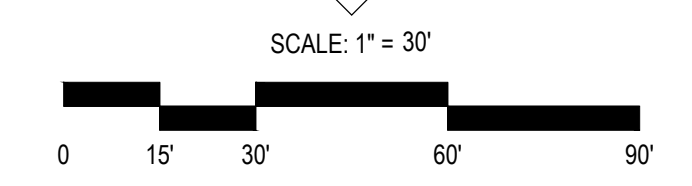
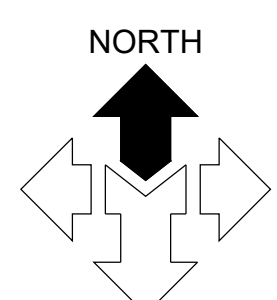
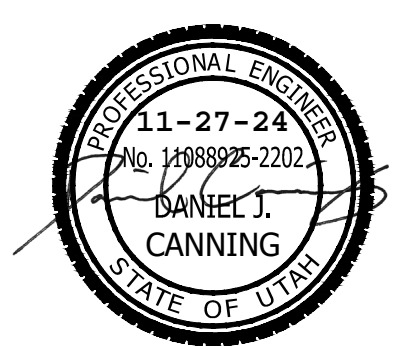


**NOTICE!**  
 THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION, PROTECTION, AND RESTORATION OF ALL BURIED OR ABOVE GROUND UTILITIES, SHOWN OR NOT SHOWN ON THE PLANS.

CIVIL SITE PLAN

**C1.01**





**GENERAL NOTES:**

SITE GRADING SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND THE RECOMMENDATIONS SET FORTH IN THE SOILS REPORT (IF AVAILABLE). THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND REPLACING ALL SOFT, YIELDING OR UNSUITABLE MATERIALS AND REPLACING WITH SUITABLE MATERIALS AS SPECIFIED IN THE SOILS REPORT. ALL EXCAVATED OR FILLED AREAS SHALL BE COMPACTED TO 95% OF MODIFIED PROCTOR MAXIMUM DENSITY PER ASTM TEST D-1557 EXCEPT UNDER BUILDING FOUNDATION WHERE IT SHALL BE 98% MIN. OF MAXIMUM DENSITY. 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 SOILS ENGINEER. VERIFYING THAT ALL FILLED AREAS AND SUBGRADE AREAS WITHIN THE BUILDING PAD AREA AND AREAS TO BE PAVED, HAVE BEEN COMPACTED IN ACCORDANCE WITH THESE PLANS & SPECS AND THE RECOMMENDATIONS SET FORTH IN THE SOILS REPORT.

THE CONTRACTOR IS TO USE BEST MANAGEMENT PRACTICES FOR PROVIDING EROSION CONTROL FOR CONSTRUCTION OF THIS PROJECT. SPECIFIC DETAILS SHOWN ON SHEET C2.10 SHALL BE USED IN COMBINATION WITH OTHER ACCEPTED LOCAL PRACTICES.

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 RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXISTENCE AND LOCATION OF ANY 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.

ALL ELEVATIONS SHOWN AT TOP AND BOTTOM OF WALL(S), IF ANY, ARE ELEVATIONS AT FINISH GRADE, UNLESS OTHERWISE NOTED.

**KEYED NOTES:**

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

- 1 GRADE SITE TO ELEVATIONS AND CONTOURS SHOWN ON PLAN.
- 2 STORM DRAIN CURB INLET WITH HEAVY DUTY BICYCLE SAFE GRATE, PER STANDARD CHURCH DETAIL, SEE DETAIL 'M', SHEET C5.03.
- 3 12" SQUARE SECURABLE NYLOPLAST YARD DRAIN, PER STANDARD CHURCH DETAIL, SEE DETAILS 'N', SHEET C5.03.
- 4 STORM DRAIN INLET CATCH BASIN WITH HEAVY DUTY BICYCLE SAFE GRATE, PER STANDARD CHURCH DETAIL, SEE DETAIL 'K', SHEET C5.01.
- 5 STORM DRAIN PIPE PER, SEE PLAN FOR LENGTH, SIZE, TYPE AND SLOPE.
- 6 STORMTECH MC-7200 CHAMBERS OR EQUIVALENT SYSTEM APPROVED PRIOR TO BIDDING. RETENTION SYSTEM AS SHOWN ON PLANS ALL PROVIDED BY THE CONTRACTOR. STORMTECH CHAMBER HAS RETENTION CAPACITY OF 28,449 C.F. TOTAL REQUIRED STORAGE = 28,620 C.F. SEE DETAIL SHEET C5.02. SHOP DRAWINGS PROVIDED BY MANUFACTURER PRIOR TO BIDDING AND CONSTRUCTION.
- 7 LANDING AREAS TO HAVE 2% MAXIMUM SLOPE AWAY FROM BUILDING
- 8 6" HDPE PIPE FROM DOWNSPOUT BASIN, SLOPE AT 0.50% MINIMUM FROM DOWNSPOUT BASIN, PER STANDARD DETAIL 'M & N', ON SHEET C5.01.
- 9 UNUSED
- 10 STORM CHAMBER DISTRIBUTION BOX.
- 11 NEW BLOCK RETAINING WALL, WALL DESIGN, DETAILS, AND REINFORCEMENT BY OTHERS. WALL TO HAVE 4" PERFORATED PVC DRAINAGE PIPE INSTALLED AT BASE OF WALL PER DETAIL 'P', SHEET C5.03.

	<b>STORM RUNOFF CALCULATION SHEET</b>	Title: Santaquin LDS Church Bldg
	Project No: 24604	Scope: Site Drainage Design
McNeil Engineering 6610 S. Sandy Hwy, Sandy, UT	Engineer: DJC Authority: Santaquin	Check: DJC Rev. No:

**Design Philosophy:**  
The storm water runoff from the project site will sheet flow to various catch basins designed on site that will collect the water then convey it by underground pipe to a subsurface storage chamber system which will retain the water until it can be infiltrated into the ground. An infiltration test gave an infiltration rate for this site of 60 min / in, which then calculates to a release rate of 0.159 cfs with the size of the chamber system.

Area Identification (A)	Runoff Coefficient (C)	(C'A)
Paved 119,725 sf (2.75 ac)	0.90	= 107,753 sf
Roof Area 24,175 sf (0.55 ac)	0.90	= 21,758 sf
Landscape 175,350 sf (4.03 ac)	0.25	= 43,838 sf
<b>Total</b> 221,295 sf (5.08 ac)	0.78 (ave)	= 173,348 sf

100-Year, 24-Hour Storm:						
Time (min)	Rate (in/hr)	Rainfall (inches)	Q in (cfs)	Adopt Q in (cfs)	Total Q in (cfs)	Q out (cfs)
5	6.28	0.522	25.14	0.00	25.14	0.16
10	4.77	0.795	19.14	0.00	19.14	0.16
15	3.94	0.985	15.81	0.00	15.81	0.16
20	3.26	1.230	10.67	0.00	10.67	0.16
30	1.64	1.840	6.58	0.00	6.58	0.16
45	0.92	1.830	3.67	0.00	3.67	0.16
60	0.62	1.870	2.50	0.00	2.50	0.16
90	0.34	2.020	1.35	0.00	1.35	0.16
120	0.20	2.340	0.78	0.00	0.78	0.16
1440	0.12	2.930	0.49	0.00	0.49	0.16

Storage	Area (sf)	Depth (ft)	Volume (cu. ft.)
Chamber System			29449 cf
<b>Total Surface Storage</b>			<b>29449 cf</b>

Total Detention Provided: 29,449 cf  
Total Detention Required: 28,620 cf

**COMMON GRADING ABBREVIATIONS:**  
SEE SHEET C0.01 FOR ADDITIONAL ABBREVIATIONS

- BFE BASEMENT FLOOR ELEVATION
- BW FINISH GRADE AT BOTTOM OF WALL
- EX or EXIST EXISTING
- EOA EDGE OF ASPHALT
- EOC EDGE OF CONCRETE
- FFE FINISH FLOOR ELEVATION
- FG FINISH GRADE
- FL FLOW LINE
- GB GRADE BREAK
- HP HIGH POINT
- LP LOW POINT
- NG NATURAL GROUND
- SDCB STORM DRAIN CATCH BASIN
- SDOC STORM DRAIN CLEANOUT BOX
- SDOB STORM DRAIN BASIN
- SDMH STORM DRAIN MANHOLE
- TBC TOP BACK OF CURB
- TOA TOP OF ASPHALT
- TOC TOP OF CONCRETE
- TOG TOP OF GRATE
- TOW TOP OF WALL
- TW FINISH GRADE AT TOP OF WALL
- WW WATERWAY



**Blue Stakes of UTAH811**  
Bluestakes.org

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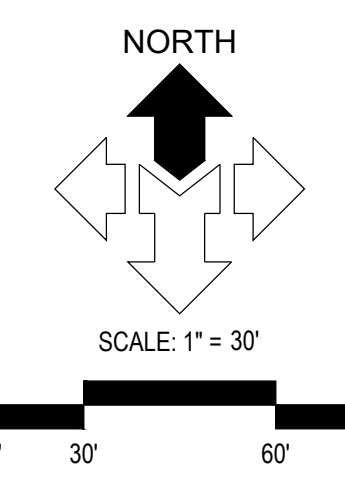
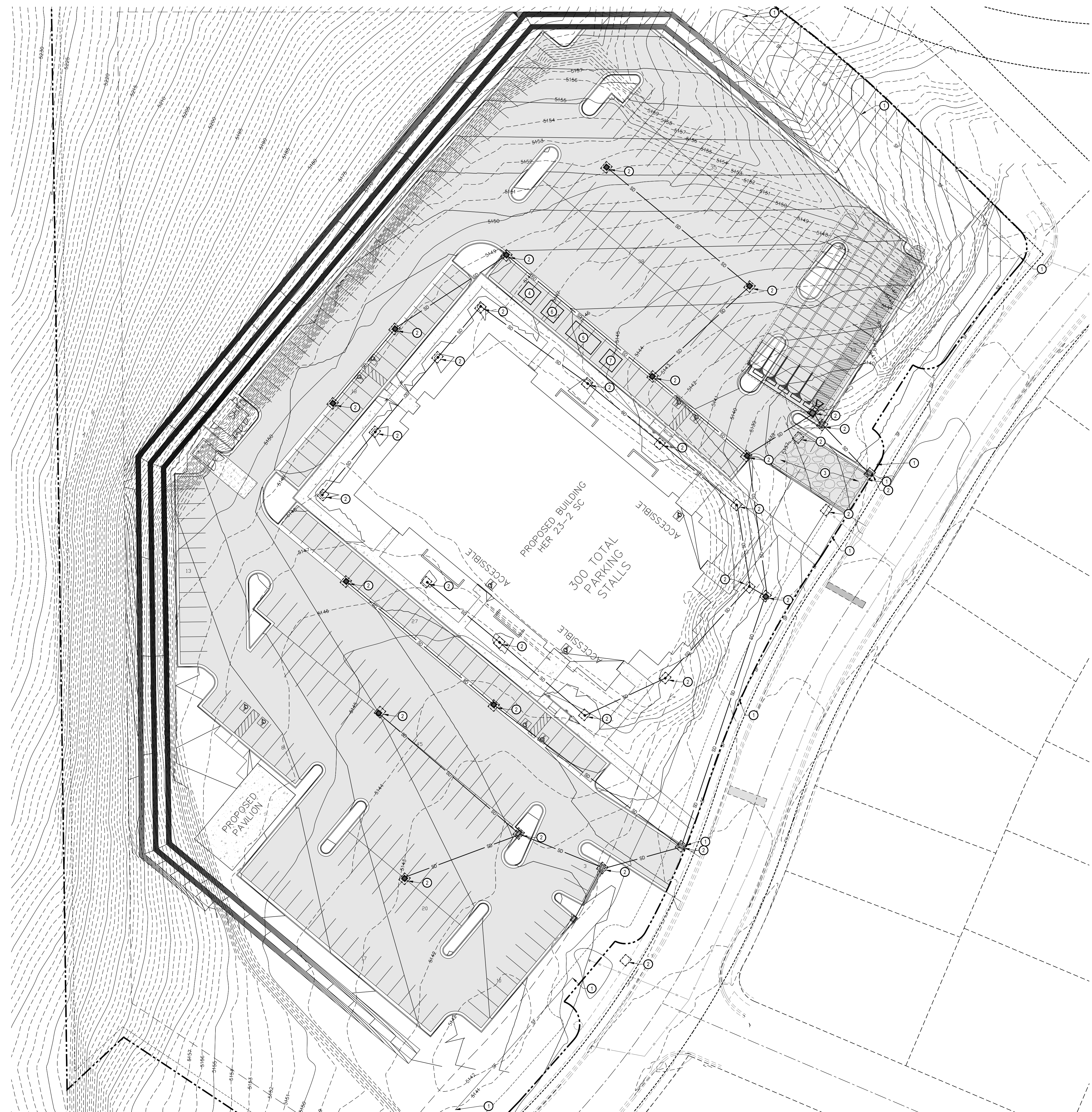
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**DATE:** 09.13.2024

**REV DATE DESCRIPTION**

GRADING AND DRAINAGE PLAN

**C2.01**





**GENERAL NOTES:**  
 THE CONTRACTOR IS TO USE BEST MANAGEMENT PRACTICES FOR PROVIDING EROSION CONTROL FOR CONSTRUCTION OF THIS PROJECT. SPECIFIC DETAILS REFERRED TO ON THIS SHEET SHALL BE USED IN COMBINATION WITH OTHER ACCEPTED LOCAL PRACTICES.

ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE LOCAL AGENCY'S EROSION CONTROL STANDARDS AND SPECIFICATIONS AND ALL WORK SHALL BE SUBJECT TO INSPECTION BY THE AGENCY HAVING JURISDICTION. ALSO INSPECTORS WILL HAVE THE RIGHT TO CHANGE THE FACILITIES AS NEEDED.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING THE LOCATIONS OF ALL EXISTING UTILITIES. IF CONFLICTS OCCUR, THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO CONSTRUCTION TO DETERMINE IF ANY FIELD ADJUSTMENTS SHOULD BE MADE.

THE CONTRACTOR SHALL PROVIDE ADEQUATE DUST CONTROL.

WHEN GRADING OPERATIONS HAVE BEEN COMPLETED AND THE DISTURBED GROUND SHALL BE LEFT "OPEN" FOR 30 DAYS OR MORE THE AREA SHALL BE FURROWED PARALLEL TO THE CONTOURS OF THE AREA.

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

**MAINTENANCE:**  
 THE OWNER'S REPRESENTATIVE SHALL MAKE ROUTINE CHECKS ON ALL EROSION CONTROL MEASURES TO DETERMINE IF REPAIRS OR SEDIMENT REMOVAL IS NECESSARY. DUE TO CONDITIONS THAT MAY ARISE IN THE FIELD, ADDITIONAL CONTROL MAY BE DETERMINED TO BE NECESSARY.

SILT FENCE BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT THE LEAST DAILY DURING PROLONGED RAINFALL.

CLOSE ATTENTION SHALL BE PAID TO THE REPAIR OF DAMAGED SILT FENCES, END RUNS, AND UNDERCUTTING BENEATH SILT FENCING.

NECESSARY REPAIRS TO BARRIERS OR REPLACEMENT OF SILT FENCING SHALL BE ACCOMPLISHED PROMPTLY.

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

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

- 1 SILT FENCE AS SHOWN ON PLAN. SEE DETAIL "B", SHEET C5.04.
- 2 INLET PROTECTION AROUND EXISTING OR NEW STORM DRAIN CATCH BASINS OR CURB INLETS. SEE DETAIL "D", SHEET C5.04.
- 3 TEMPORARY CONSTRUCTION ENTRANCE. SEE DETAIL "A", SHEET C5.04. LOCATION SHOWN IS SUGGESTIVE. CONTRACTOR TO RELOCATE AS NEEDED.
- 4 CONCRETE WASHOUT AREA. CREATE A MIN. 10'X10' AREA WITH A 1' HIGH BERM. LINE AREA WITH PLASTIC. DISCARD WASTE IN DUMPSTER WHEN FULL AND LEGALLY DISPOSE OF. SEE DETAIL "E", SHEET C5.01. LOCATION SHOWN IS SUGGESTIVE. CONTRACTOR TO RELOCATE AS NEEDED.
- 5 CONSTRUCTION DUMPSTER. CHECK LEVEL DAILY. LEGALLY DISPOSE OF WASTE AS NEEDED. LOCATION SHOWN IS SUGGESTIVE. CONTRACTOR TO RELOCATE AS NEEDED.
- 6 PORTABLE CONSTRUCTION TOILET. TOILET TO BE PROPERLY SECURED TO PREVENT TIPPING. BUILD 6" BERM AROUND TOILET TO CONTAIN ANY SPILLS OR LEAKAGE. CHECK LEVEL DAILY. LEGALLY DISPOSE OF WASTE AS NEEDED. SEE DETAIL "C", SHEET C5.04. LOCATION SHOWN IS SUGGESTIVE. CONTRACTOR TO RELOCATE AS NEEDED.
- 7 MATERIAL STORAGE AND STOCK PILE AREA. SEE DETAIL "F", SHEET C5.04. LOCATION SHOWN IS SUGGESTIVE. CONTRACTOR TO RELOCATE AS NEEDED.

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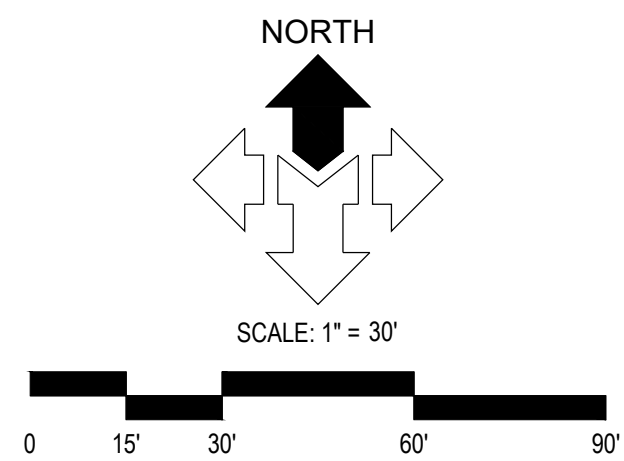
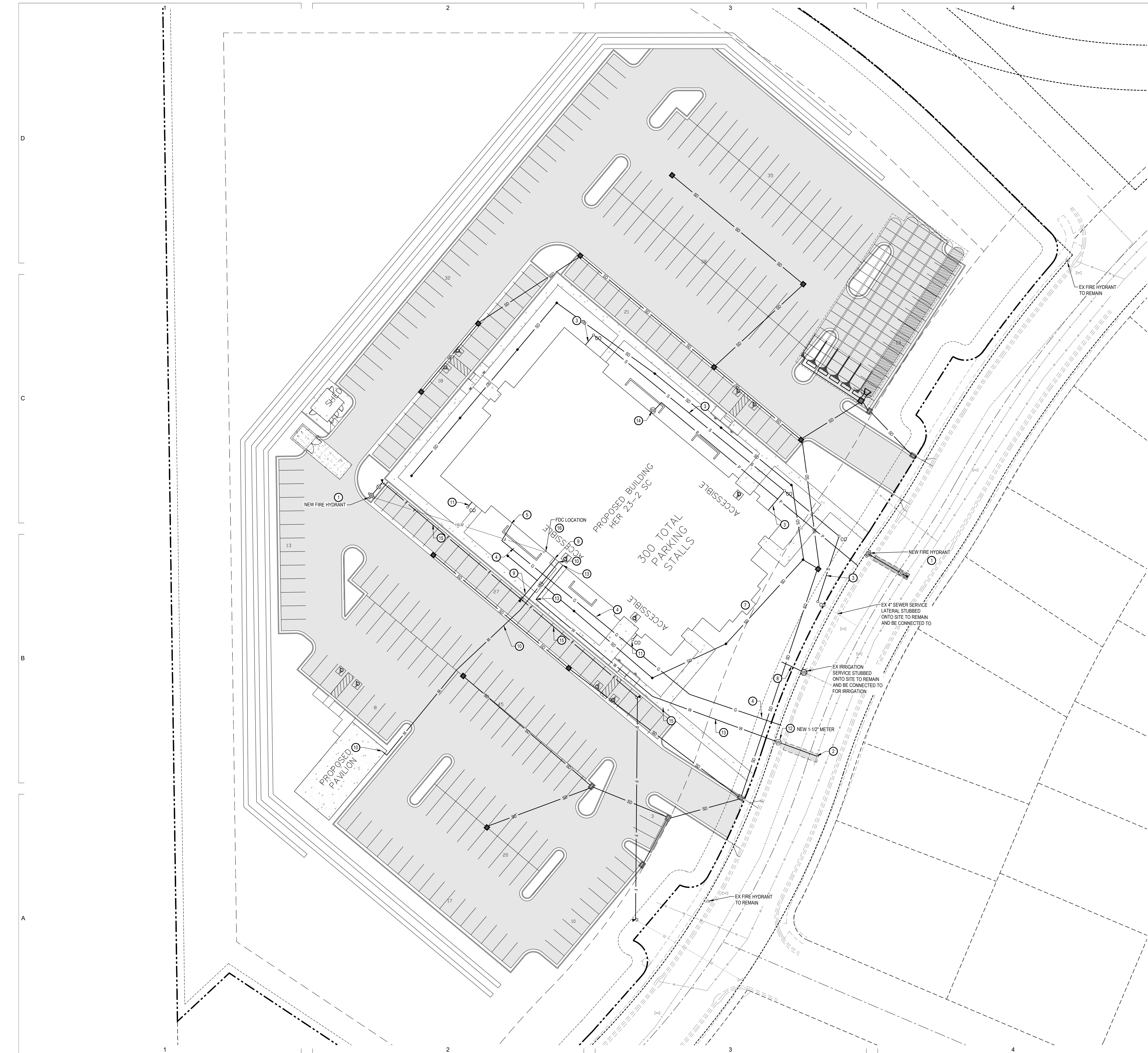
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**EROSION CONTROL PLAN**

C3.01





**GENERAL NOTES:**

CONTRACTOR IS TO COORDINATE ALL UTILITIES WITH MECHANICAL DRAWINGS.  
 ALL NEW WATER CONSTRUCTION TO BE DONE IN ACCORDANCE WITH LOCAL GOVERNING MUNICIPALITY STANDARDS & SPECIFICATIONS.  
 ALL NEW SANITARY SEWER CONSTRUCTION TO BE DONE IN ACCORDANCE WITH LOCAL GOVERNING MUNICIPALITY STANDARDS & SPECIFICATIONS.  
 CONTRACTOR SHALL FIELD VERIFY LOCATIONS AND INVERT ELEVATIONS OF EXISTING MANHOLES AND OTHER UTILITIES BEFORE STAKING OR CONSTRUCTING ANY SEWER LINES.  
 FOUR FEET OF COVER IS REQUIRED OVER ALL SEWER LINES.  
 MAINTAIN A MINIMUM OF 48 INCHES OF COVER ON ALL WATER LINES.  
 CONTRACTOR IS TO COORDINATE LOCATIONS OF NEW TELEPHONE SERVICE TO BUILDING WITH CENTURY LINK. A PVC CONDUIT, PLYWOOD BACKBOARD, AND GROUND WIRE IS REQUIRED FOR SERVICE THROUGH PROPERTY. COORDINATE SIZES AND LOCATION WITH CENTURY LINK.  
 CONTRACTOR IS TO SUBMIT SITE PLAN TO DOMINION ENERGY FOR DESIGN OF GAS LINE SERVICE TO BUILDING. CONTRACTOR TO COORDINATE WITH DOMINION ENERGY FOR CONTRACTOR LIMITS OF WORK VERSUS DOMINION ENERGY LIMITS.  
 LOCATION OF ALL UNDERGROUND UTILITIES SHOWN ARE APPROXIMATE LOCATIONS. CONTRACTOR IS TO VERIFY CONNECTION POINTS WITH EXISTING UTILITIES. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE CAUSED TO EXISTING UTILITIES AND UTILITY STRUCTURE THAT ARE TO REMAIN.  
 UTILITY ALERT PHONE NUMBERS  
 WATER: SANTAQUIN CITY  
 SEWER: SANTAQUIN CITY  
 NATURAL GAS: DOMINION ENERGY  
 ELECTRICAL POWER: POWER  
 TELEPHONE: CENTURY LINK

**KEYED NOTES:**

- PROVIDE, INSTALL AND/OR CONSTRUCT THE FOLLOWING PER THE SPECIFICATIONS GIVEN OR REFERENCED AND THE DETAILS NOTED AND AS SHOWN ON THE CONSTRUCTION DRAWINGS:
1. INSTALL NEW FIRE HYDRANT ASSEMBLY COMPLETE, PER APWA PLANS NO. 511
  2. CONNECT NEW 1-1/2" TYPE 'K' COPPER WATER SERVICE LINE TO EXISTING WATER MAIN.
  3. 4" PVC SDR-35 SANITARY SEWER LATERAL @ 2.00% MINIMUM SLOPE, INCLUDING NEW CLEANOUTS.
  4. APPROXIMATE LOCATION OF NEW NATURAL GAS LINE. CONTRACTOR TO COORDINATE SIZE, DESIGN AND INSTALLATION BY DOMINION ENERGY WITH OTHER CONSTRUCTION.
  5. APPROXIMATE LOCATION OF NEW NATURAL GAS METERS). CONTRACTOR TO COORDINATE SIZE, DESIGN AND INSTALLATION WITH DOMINION ENERGY AND WITH MECHANICAL PLANS.
  6. UNDERGROUND CABLE AND POWER LINES. CONTRACTOR TO COORDINATE WITH COMCAST AND ROCKY MOUNTAIN POWER. SEE ELECTRICAL SITE PLAN FOR POWER CONNECTIONS.
  7. TELEPHONE LINE. CONTRACTOR TO PROVIDE TRENCHING 30" DEEP X 24" WIDE FOR CENTURY LINK AND THEN BACKFILL AS REQUIRED. SEE ELECTRICAL SITE PLAN FOR COMMUNICATIONS CONNECTIONS.
  8. EXISTING IRRIGATION SERVICE STUBBED ONTO SITE. CONNECT TO STUBBED SERVICE AND INSTALL NEW 1" IRRIGATION METER. SEE IRRIGATION PLANS FOR STOP AND WASTE.
  9. 6" DIP CLASS S2 FIRE LINE WRAPPED IN AWWA APPROVED POLYETHYLENE ENCASUREMENT (POLYWRAP), INCLUDING ALL FITTINGS AND THRUST BLOCKING. PER APWA PLAN NO. 561 FOR THRUST BLOCKING.
  10. 3/4" POLY PIPE WATER LINE FROM PROPOSED BUILDING TO THE PROPOSED PAVILION DRINKING FOUNTAIN. SEE PLUMBING PLANS FOR COORDINATION AND FOR DETAILS.
  11. SEWER CLEANOUT AND 6" PVC SEWER LINE FOR USE IN CLEARING SEWER LINES WITHIN THE BUILDING FROM OUTSIDE. (TYPICAL CHURCH DESIGN) SEE STANDARD CHURCH DETAIL 'C' SHEET C5.06.
  12. 1-1/2" WATER SERVICE METER SET, PER APWA PLANS NO. 522 & 505.
  13. 1-1/2" TYPE 'K' COPPER WATER SERVICE LINE, PER APWA PLAN NO. 541.
  14. APPROXIMATE ELECTRICAL METER LOCATION. SEE ELECTRICAL PLANS FOR DETAILS.
  15. 8" BLUE PVC C-900 DR-18 WATER LINE, INCLUDING ALL FITTINGS AND THRUST BLOCKING. SEE APWA PLAN NO. 561 FOR THRUST BLOCKING.
  16. FDC LOCATION. SEE ARCHITECTURAL PLANS. USE A 5" STORTZ FITTING ON THE FDC PER SANTAQUIN CITY.
  17. KNOX BOX REQUIRED WITH BOTH A HARD KEY AND FOB, AS WELL AS PULL STATION KEY AND ALARM PANEL KEY PER SANTAQUIN CITY.

**COMMON UTILITY ABBREVIATIONS:**

SEE SHEET C0.01 FOR ADDITIONAL ABBREVIATIONS

- CO	CLEANOUT
- CW	CULINARY WATER LINE
- F	PROPOSED FIRE LINE
- fb	EXISTING FIBER OPTIC LINE
- g	EXISTING GAS LINE
- G	PROPOSED GAS LINE
- p	EXISTING POWER LINE
- P	PROPOSED POWER LINE
- s	EXISTING SEWER LINE
- S	PROPOSED SEWER LINE
- SSMH	SANITARY SEWER MAN HOLE
- w	EXISTING WATER LINE
- W	PROPOSED WATER LINE

**Blue Stakes of UTAH811**  
 bluestakes.org

**NOTICE!**  
 THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION, PROTECTION, AND RESTORATION OF ALL BURIED OR ABOVE GROUND UTILITIES, SHOWN OR NOT SHOWN ON THE PLANS.

**uncommon architects**  
 684 W Center St  
 Midvale UT 84047  
 uncommonarch.com  
 (801) 417-9951

**PROFESSIONAL ENGINEER**  
 No. 14888925-2202  
 DANIEL J. CANNING  
 STATE OF UTAH

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 Civil Engineering • Consulting & Landscape Architecture  
 Structural Engineering • Land Surveying & HDS

**OWNER / DEVELOPER:**  
 Church of Jesus Christ of Latter Day Saints

**CONTACT INFO:**  
 James Zarate  
 (801) 240-5174  
 jzarate@churchofjesuschrist.org  
 525 North Temple St Salt Lake City UT 84150

**SANTAQUIN WEST MEETING HOUSE**

1544 SOUTH SAGEBERRY DRIVE  
 SANTAQUIN, UTAH COUNTY, UTAH 84655

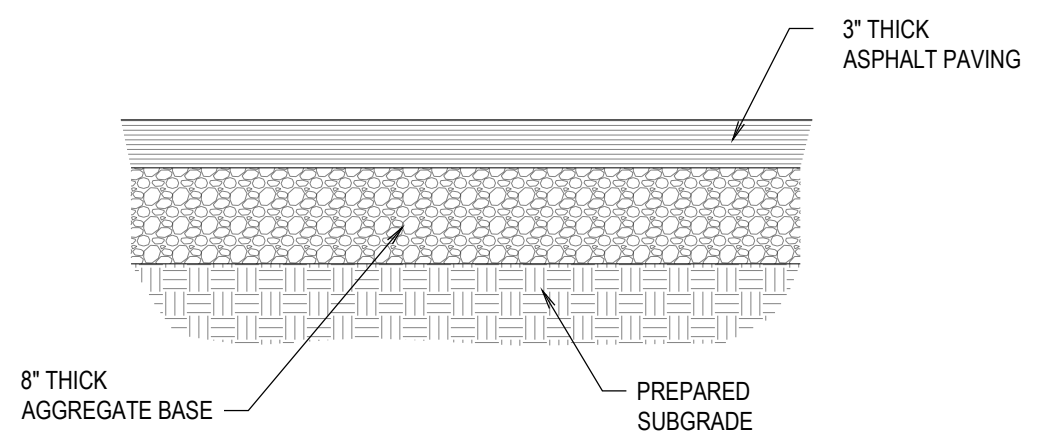
**JOB NUMBER:** 501-2698  
**OWNER:** Church of Jesus Christ of Latter Day Saints  
**DATE:** 09.13.2024

REV	DATE	DESCRIPTION

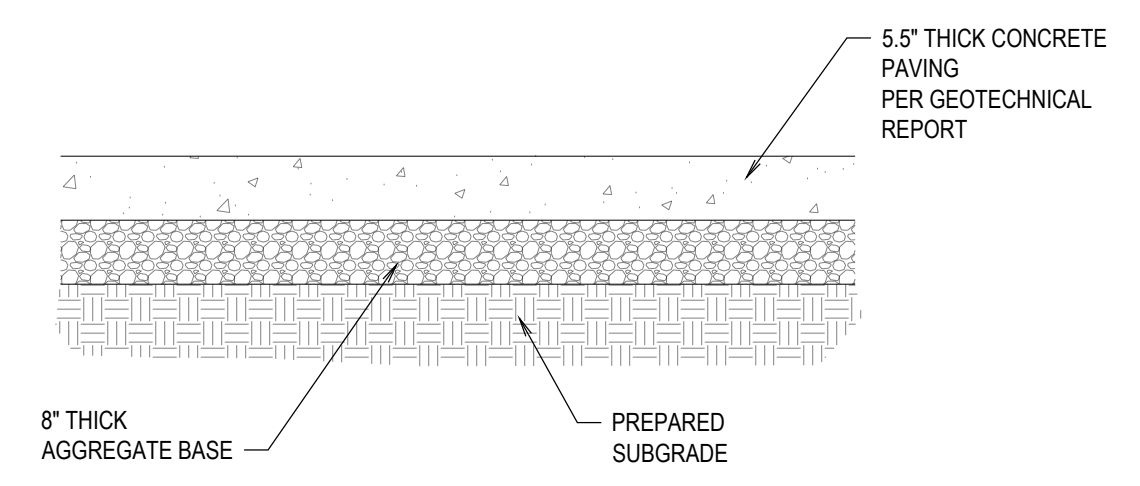
**SITE UTILITY PLAN**

**C4.01**

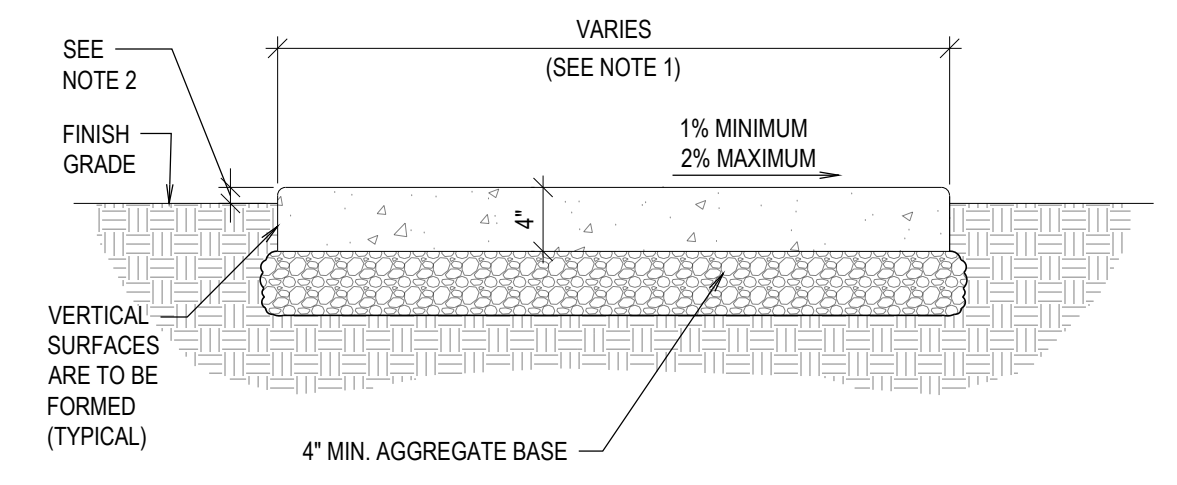




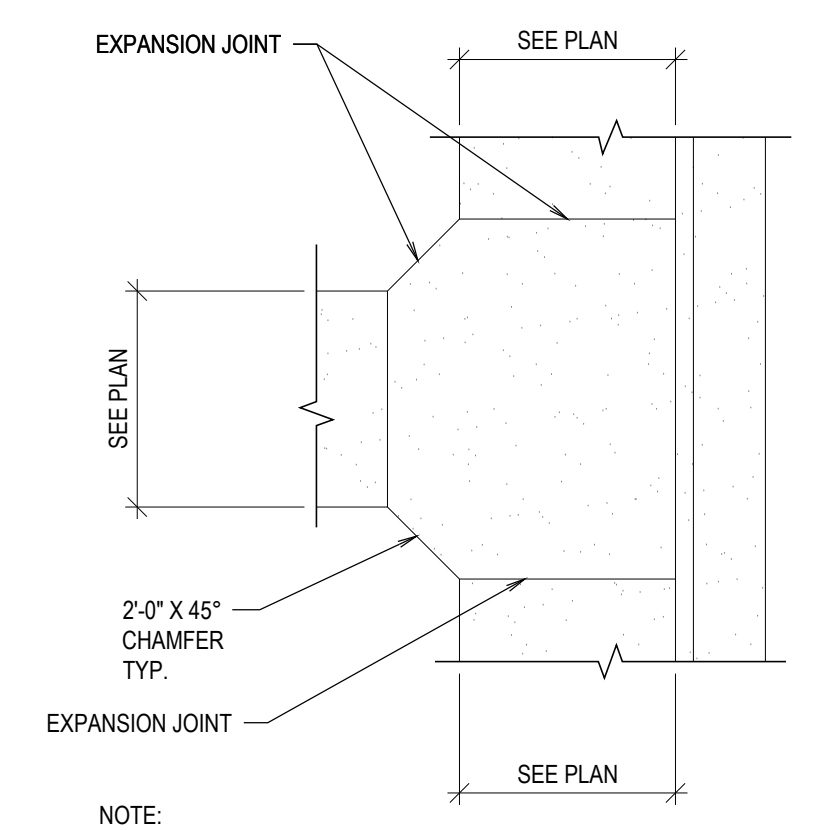
**A ASPHALT PAVING**  
SCALE: N.T.S.



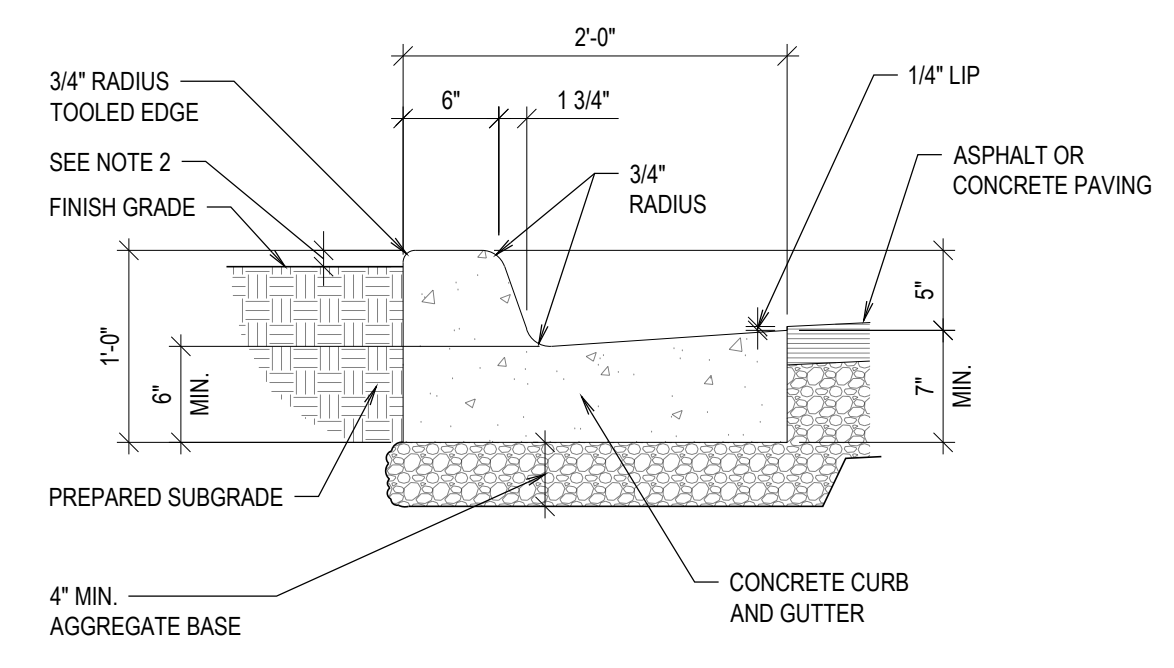
**B CONCRETE PAVING**  
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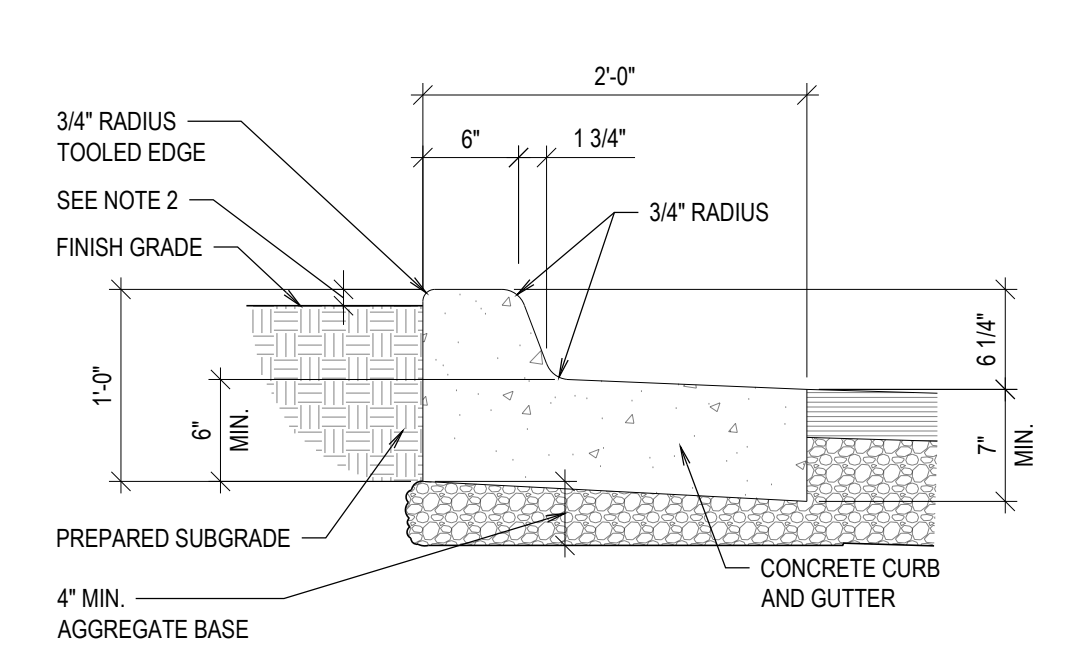
**C SIDEWALK DETAIL**  
SCALE: N.T.S.



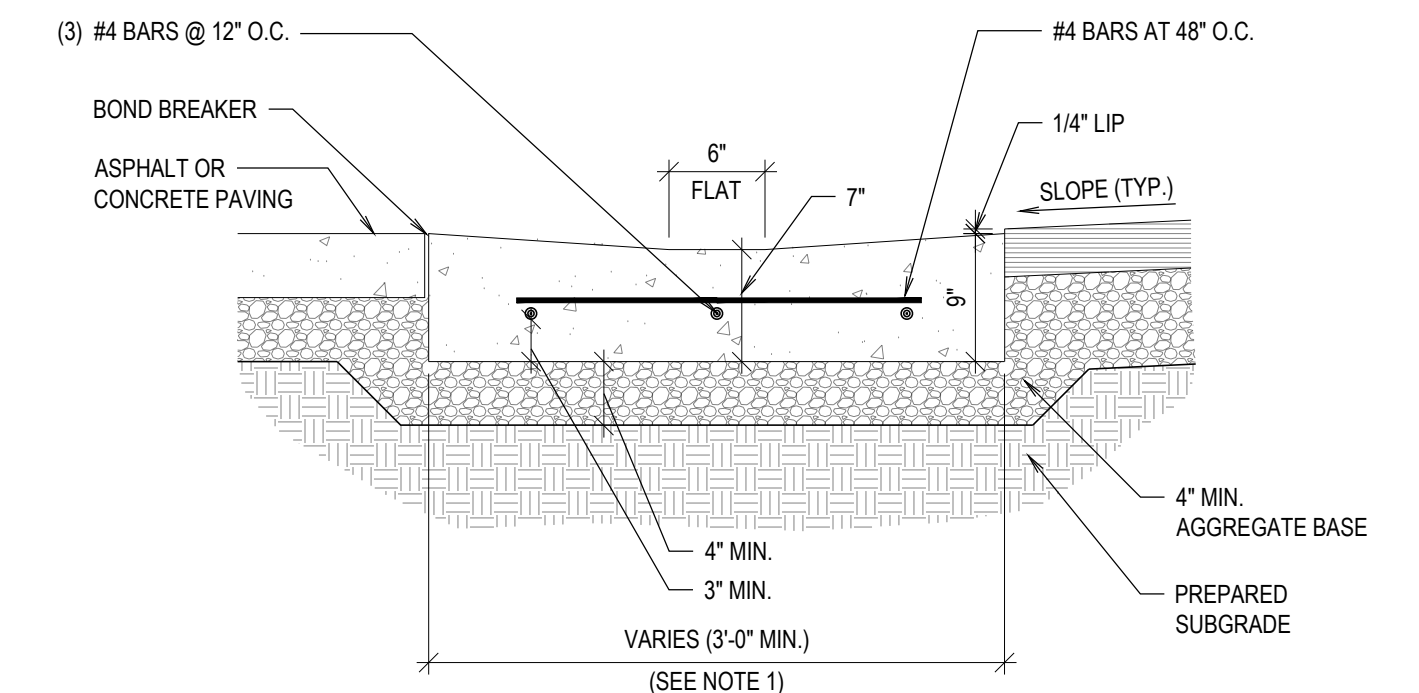
**D SIDEWALK DETAIL**  
SCALE: N.T.S.



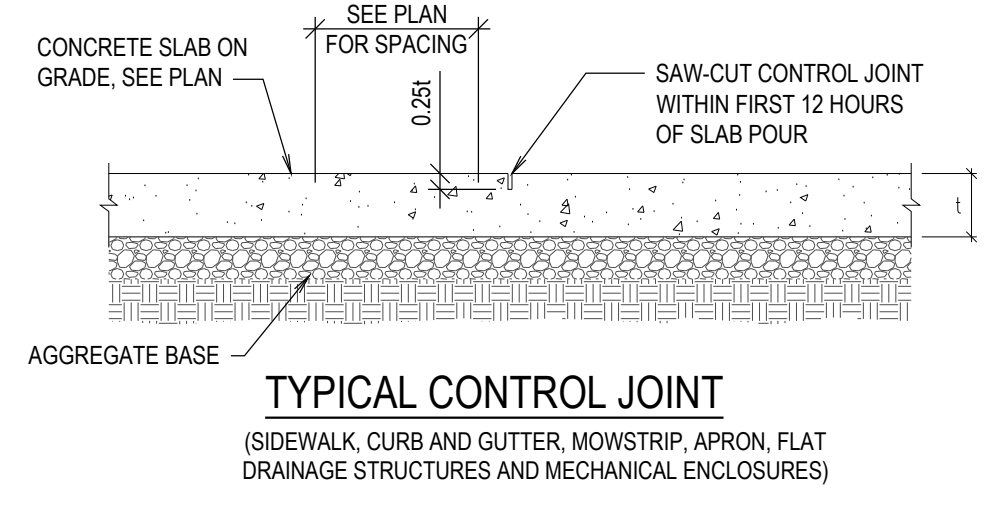
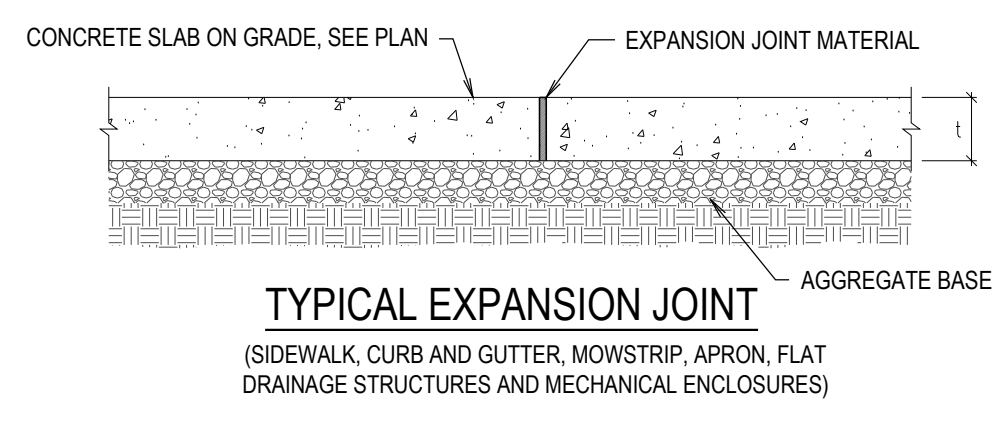
**E CURB AND GUTTER - IN FLOW**  
SCALE: N.T.S.



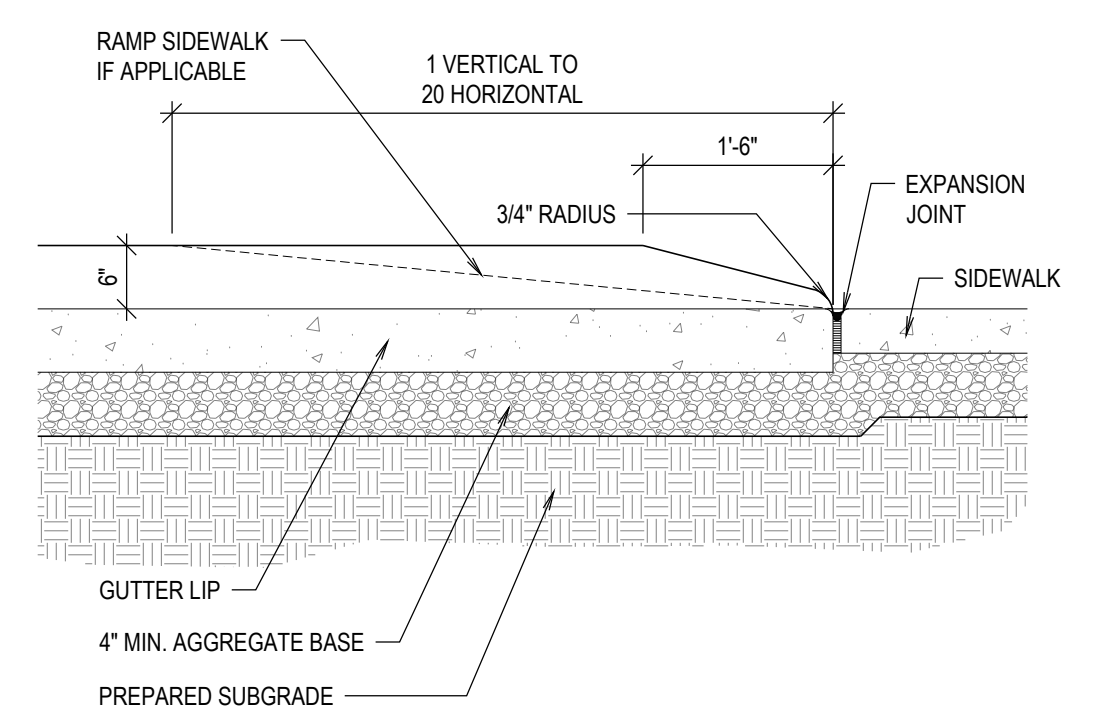
**F CURB AND GUTTER - OUT FLOW**  
SCALE: N.T.S.



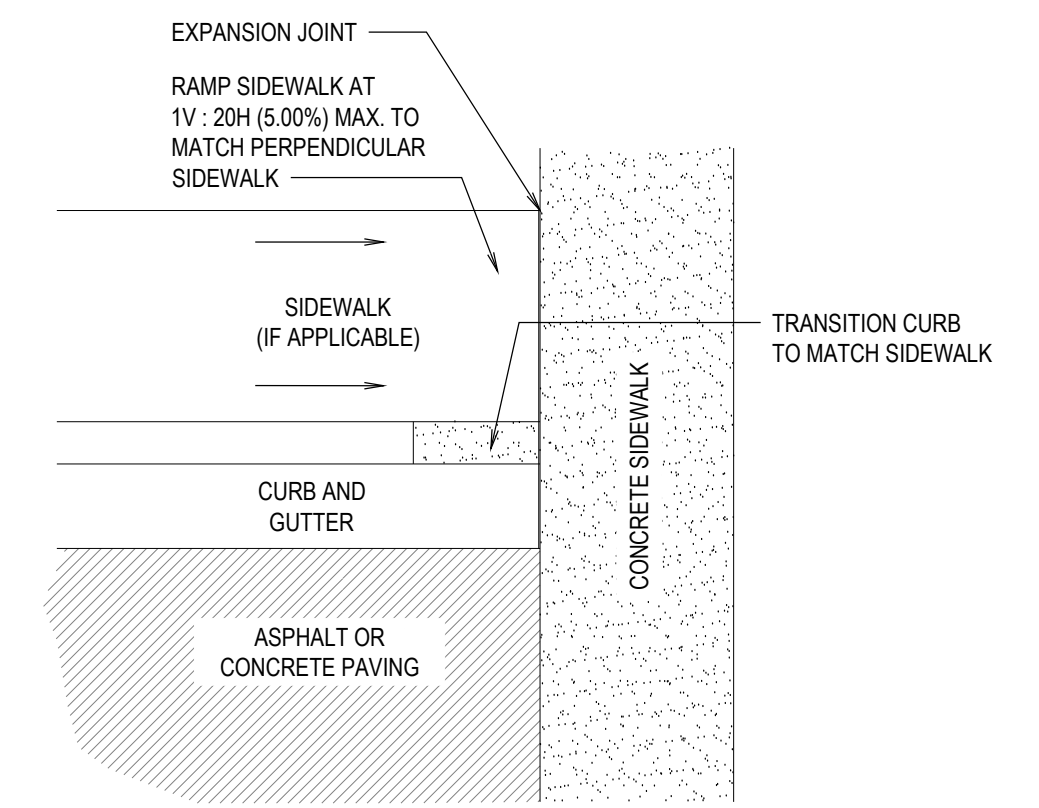
**H CONCRETE WATERWAY - FLAT DRAINAGE STRUCTURE**  
SCALE: N.T.S.



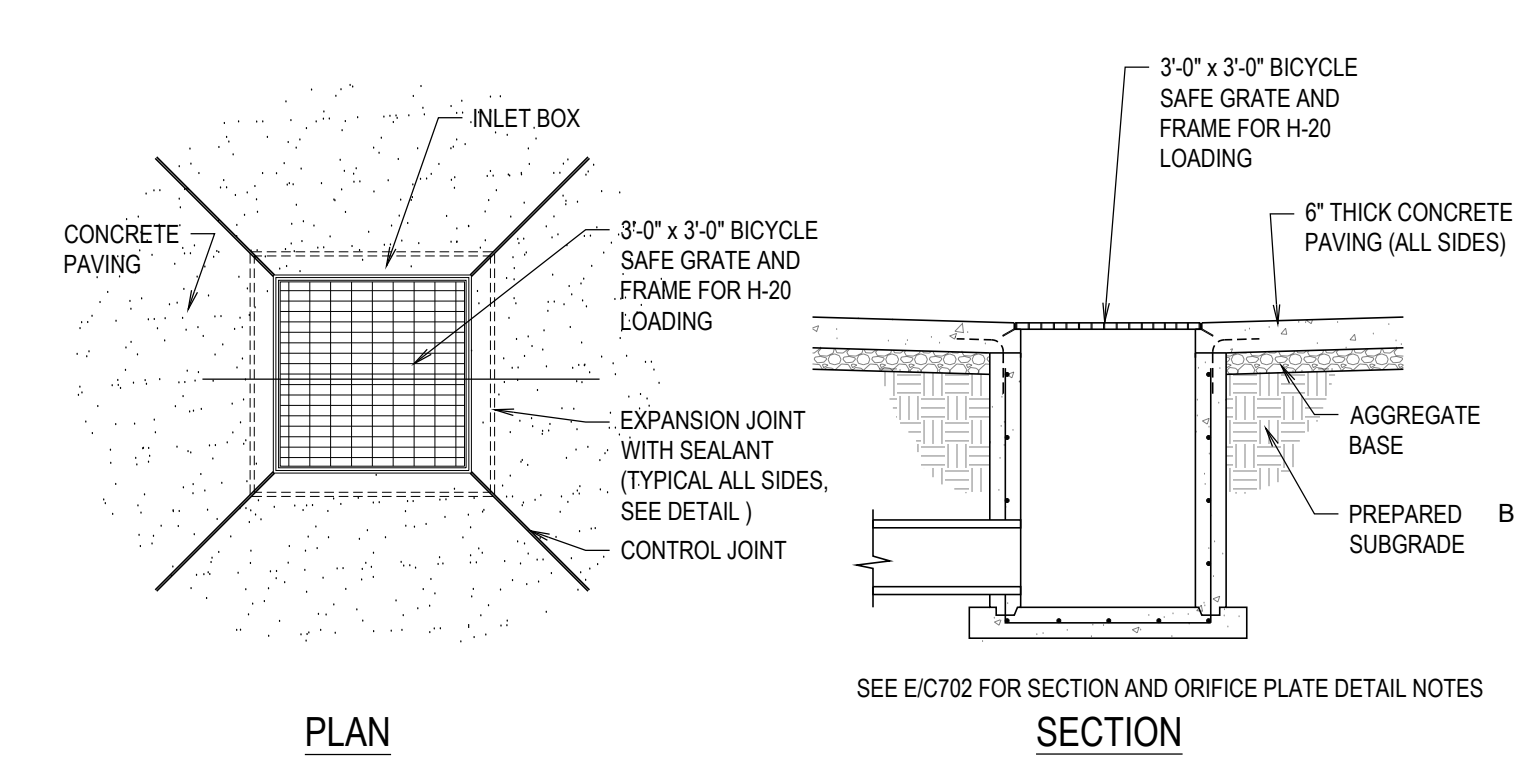
**I EXPANSION AND CONTROL JOINT**  
SCALE: N.T.S.



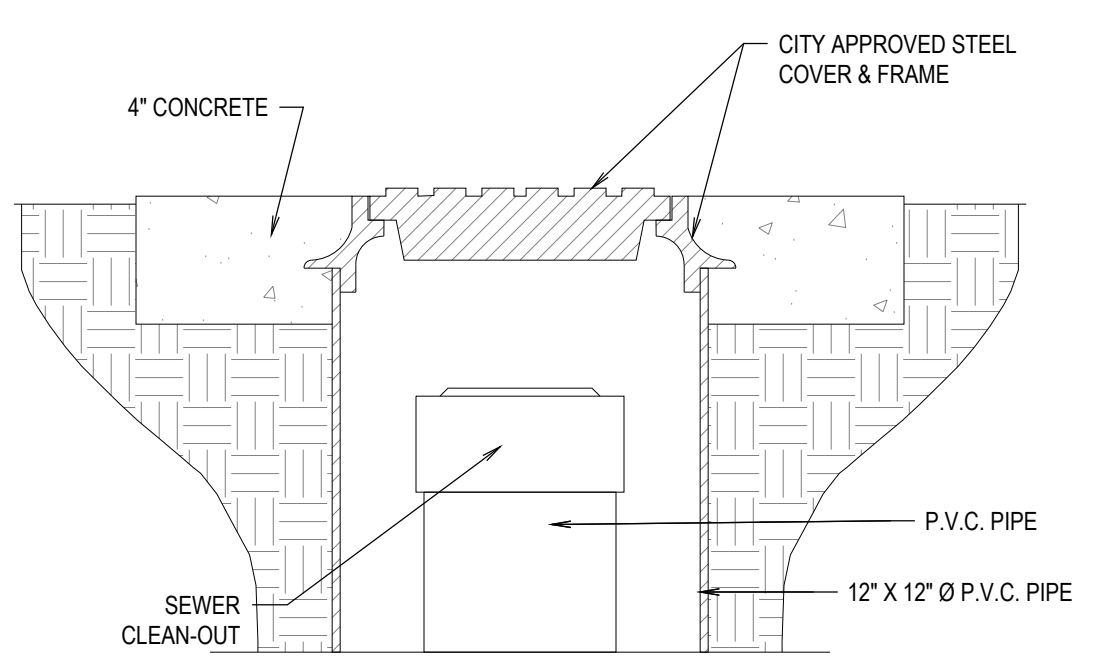
**J CURB TRANSITION**  
SCALE: N.T.S.



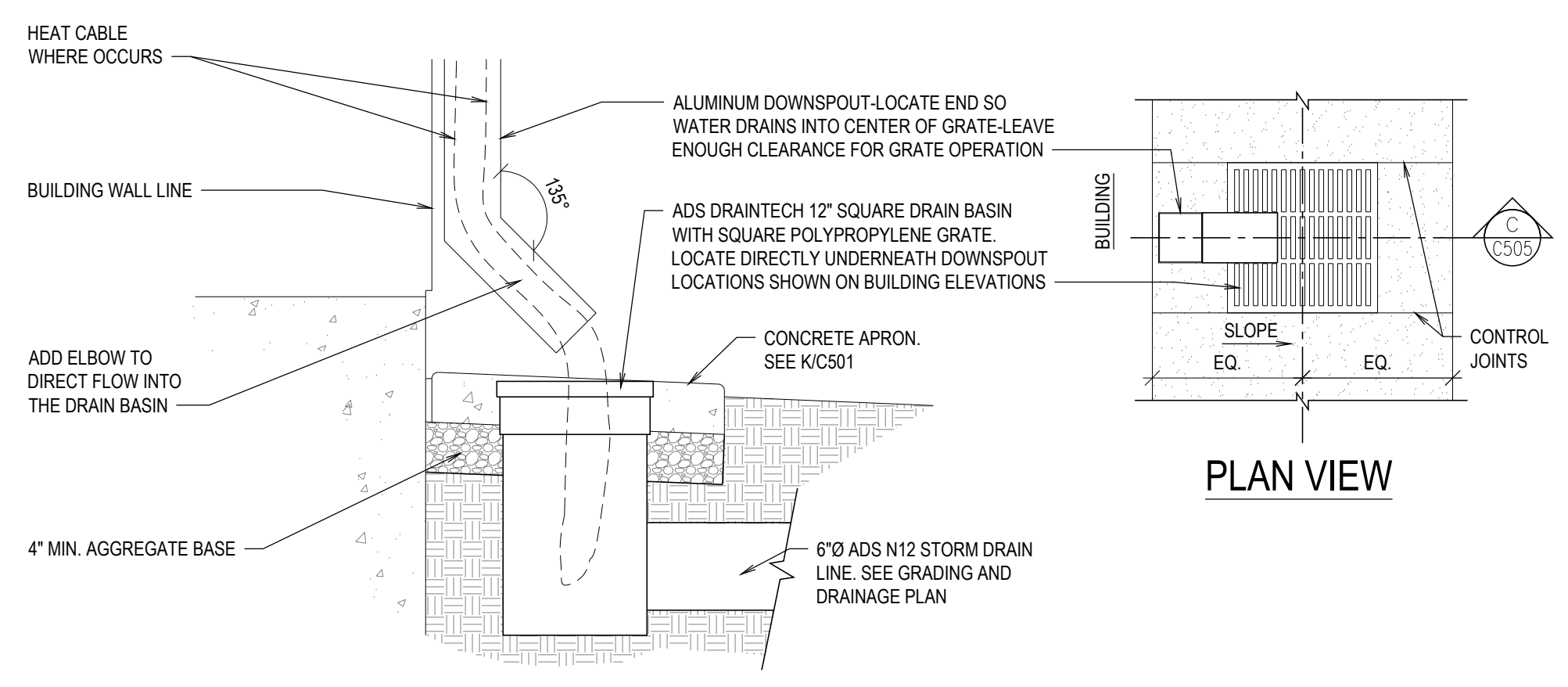
**PLAN**



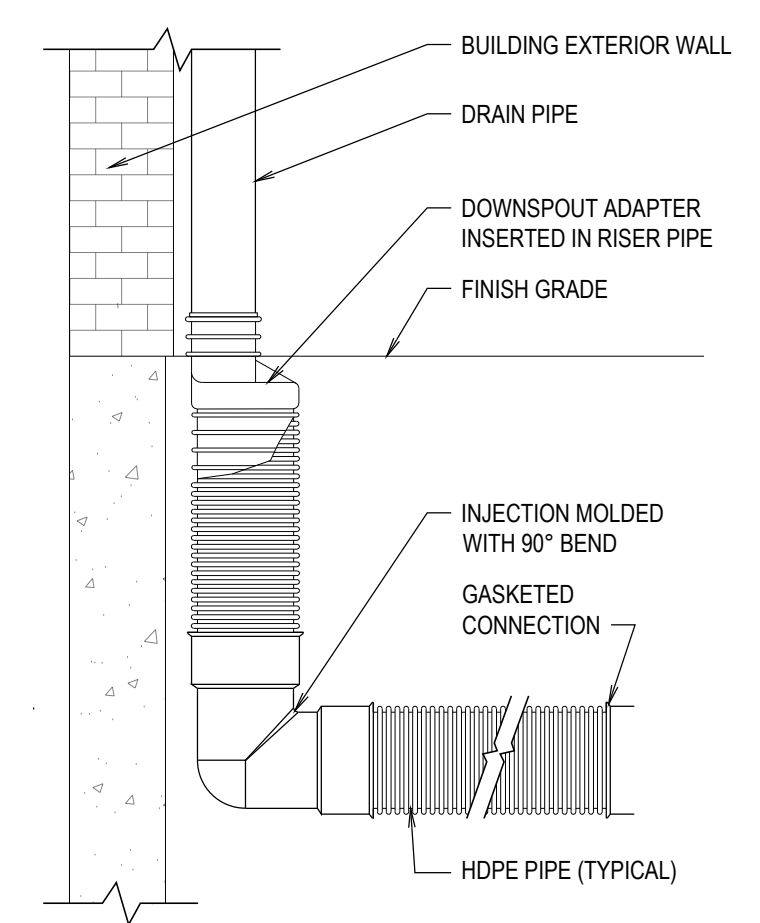
**K INLET BOX IN CONCRETE PAVING**  
SCALE: N.T.S.



**L SEWER CLEAN-OUT**  
SCALE: N.T.S.



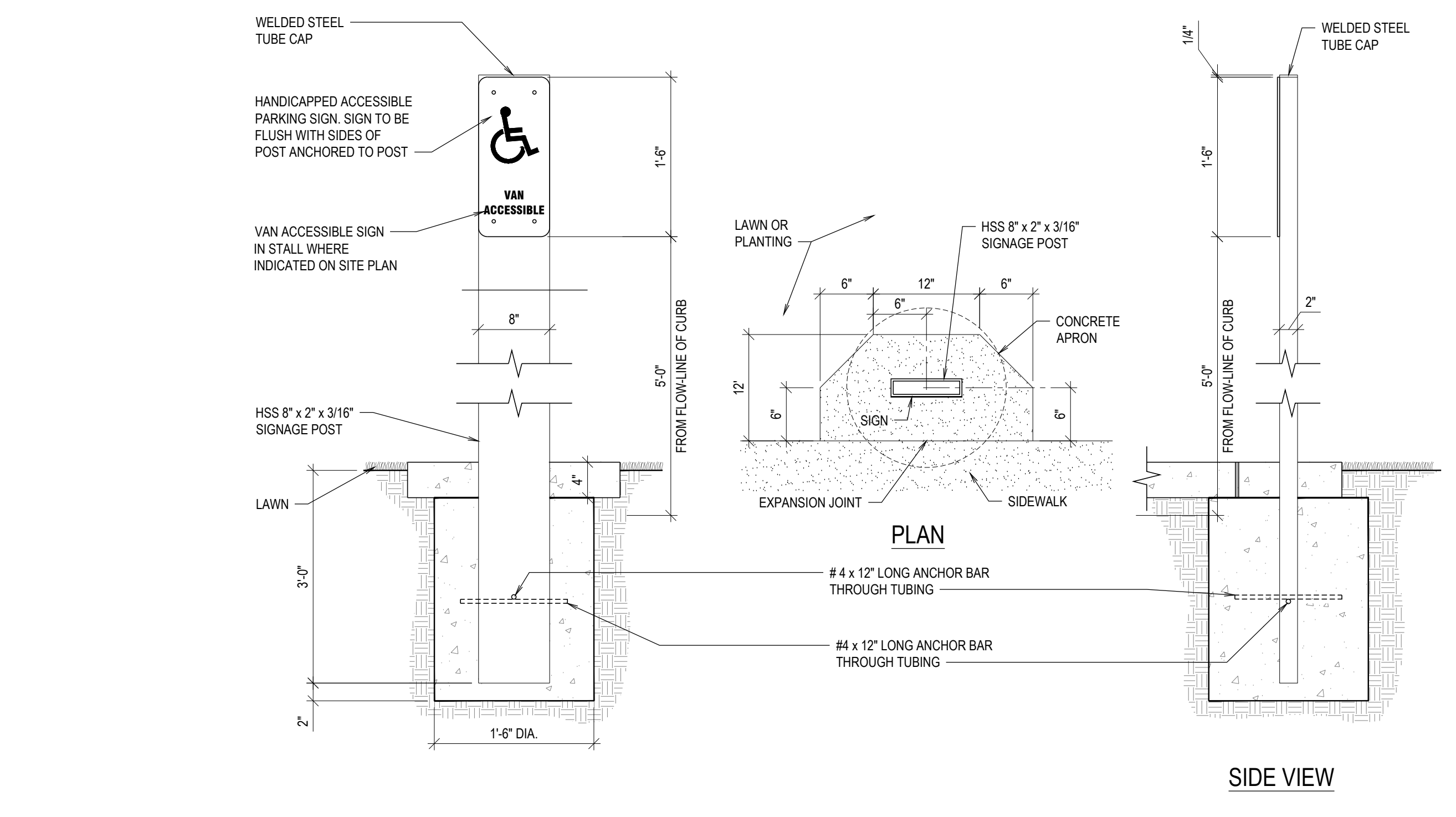
**M DOWNSPOUT AND CATCH BASIN DETAIL**  
SCALE: N.T.S.



**N ROOF DRAIN CONNECTION**  
SCALE: N.T.S.

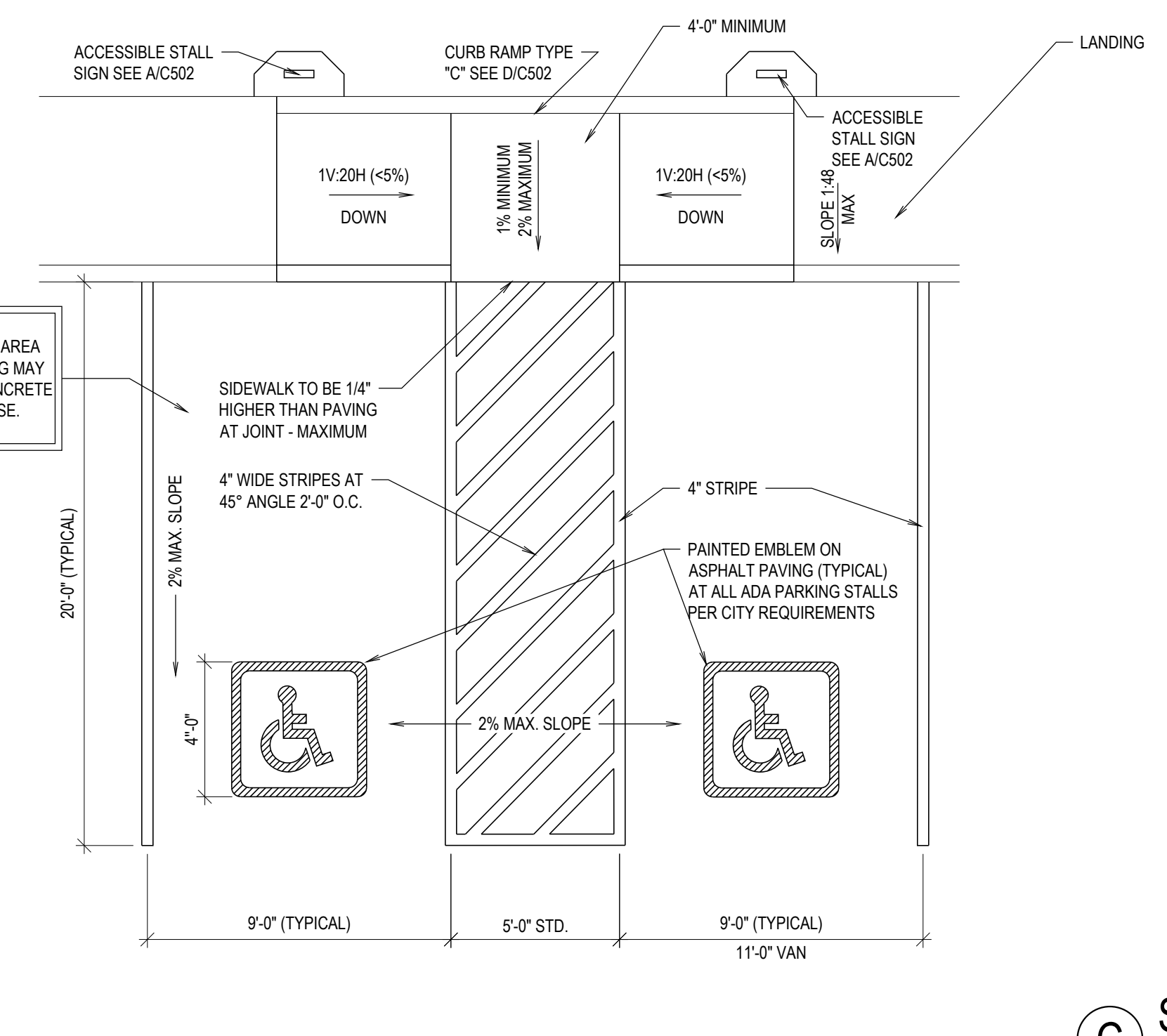


**A ACCESSIBLE STALL SIGN (TRAFFIC SIGNAGE)**



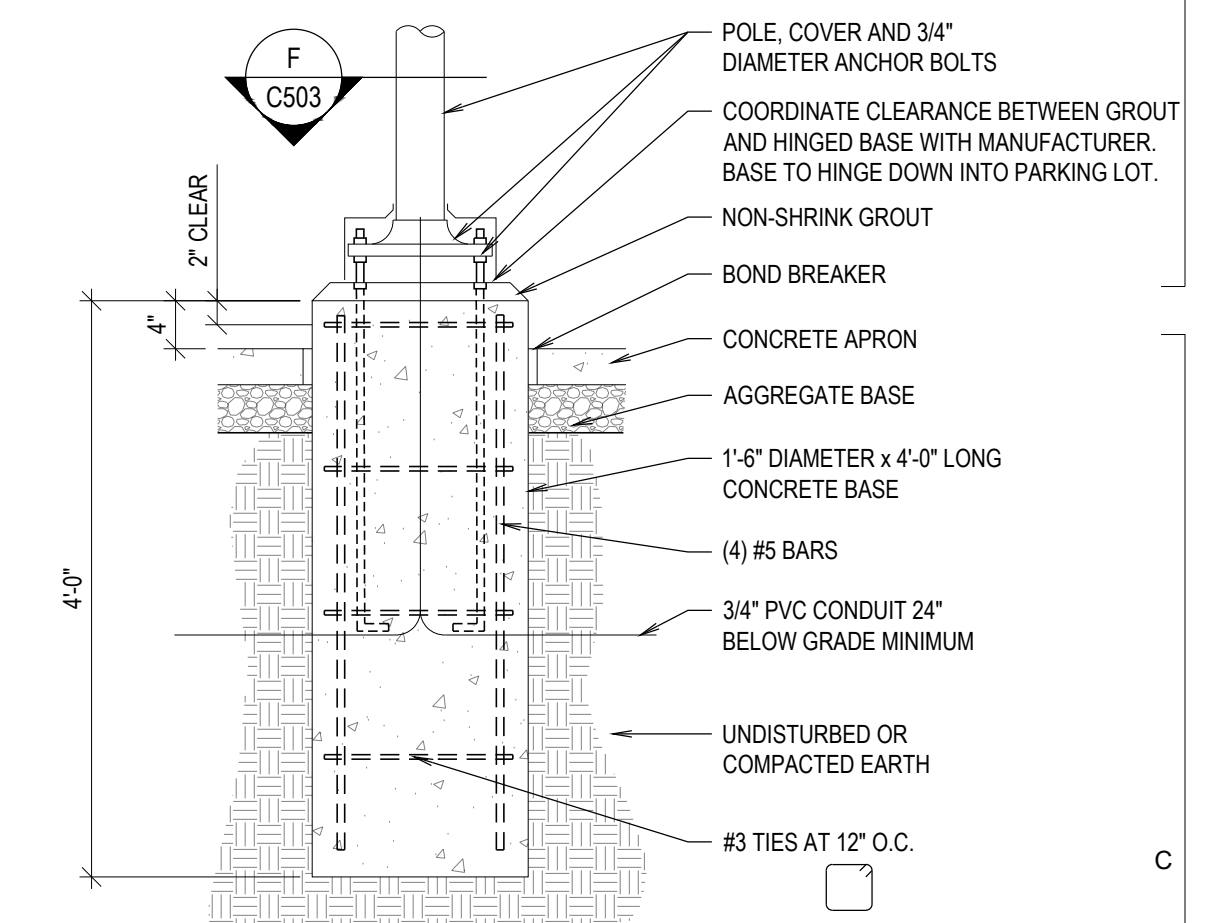
STEEL PER DIVISION 05  
INSTALL PER DIVISION 03

**B ACCESSIBLE PARKING**



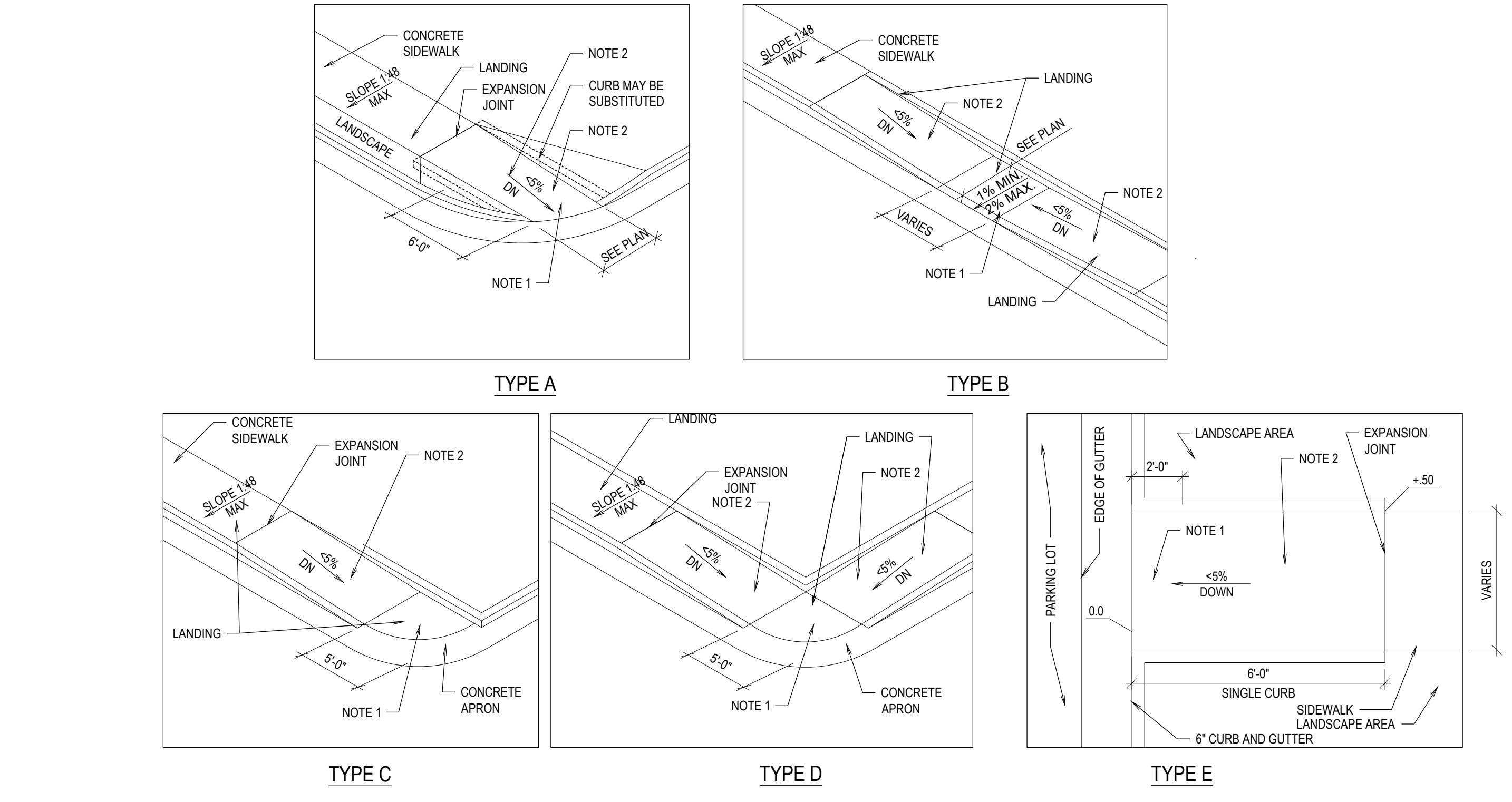
STEEL PER DIVISION 05  
INSTALL PER DIVISION 03

**C SIDEWALK AREA POLE BASE**



SCALE: N.T.S.

**D ACCESSIBLE SLOPED WALK DETAILS**

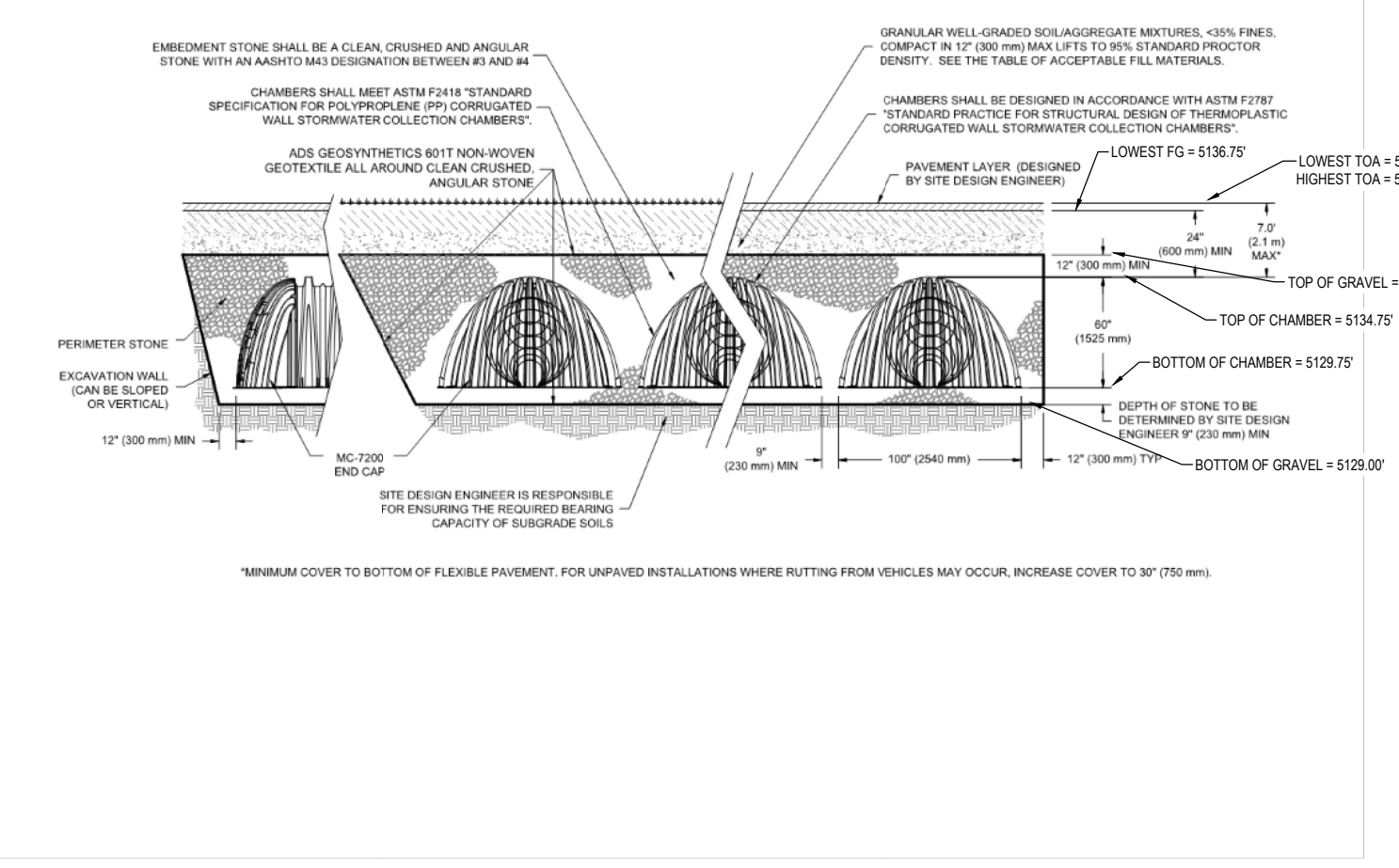


**User Inputs**

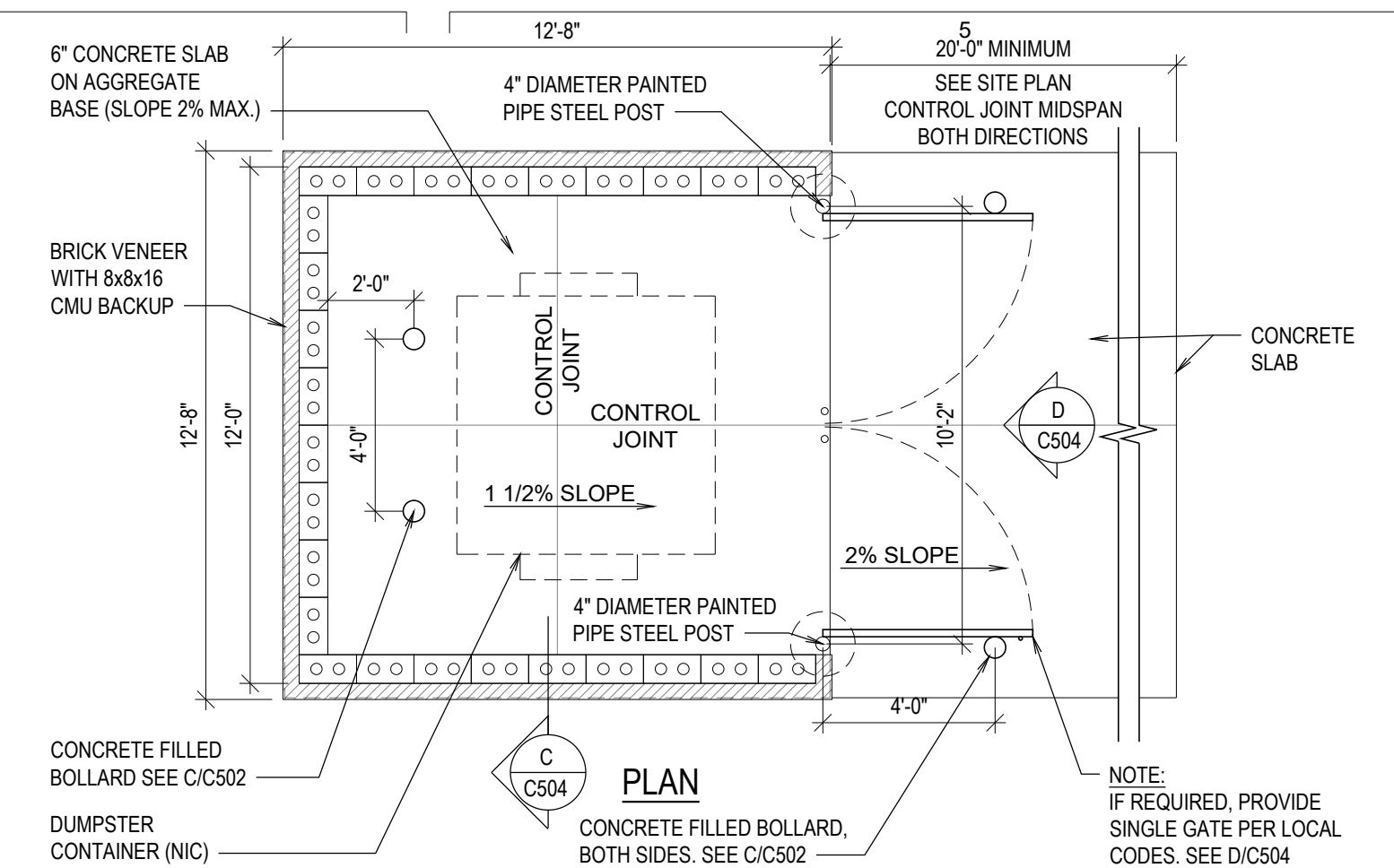
Chamber Model:	MC-7200
Outlet Control Structure:	No
Project Name:	Santaquin Church
Engineer:	Daniel Canning
Project Location:	Utah
Measurement Type:	Imperial
Required Storage Volume:	28620 cubic ft.
Stone Porosity:	40%
Stone Foundation Depth:	9 in.
Stone Above Chambers:	12 in.
Design Constraint Dimensions:	(60 ft. x 130 ft.)

**Results**

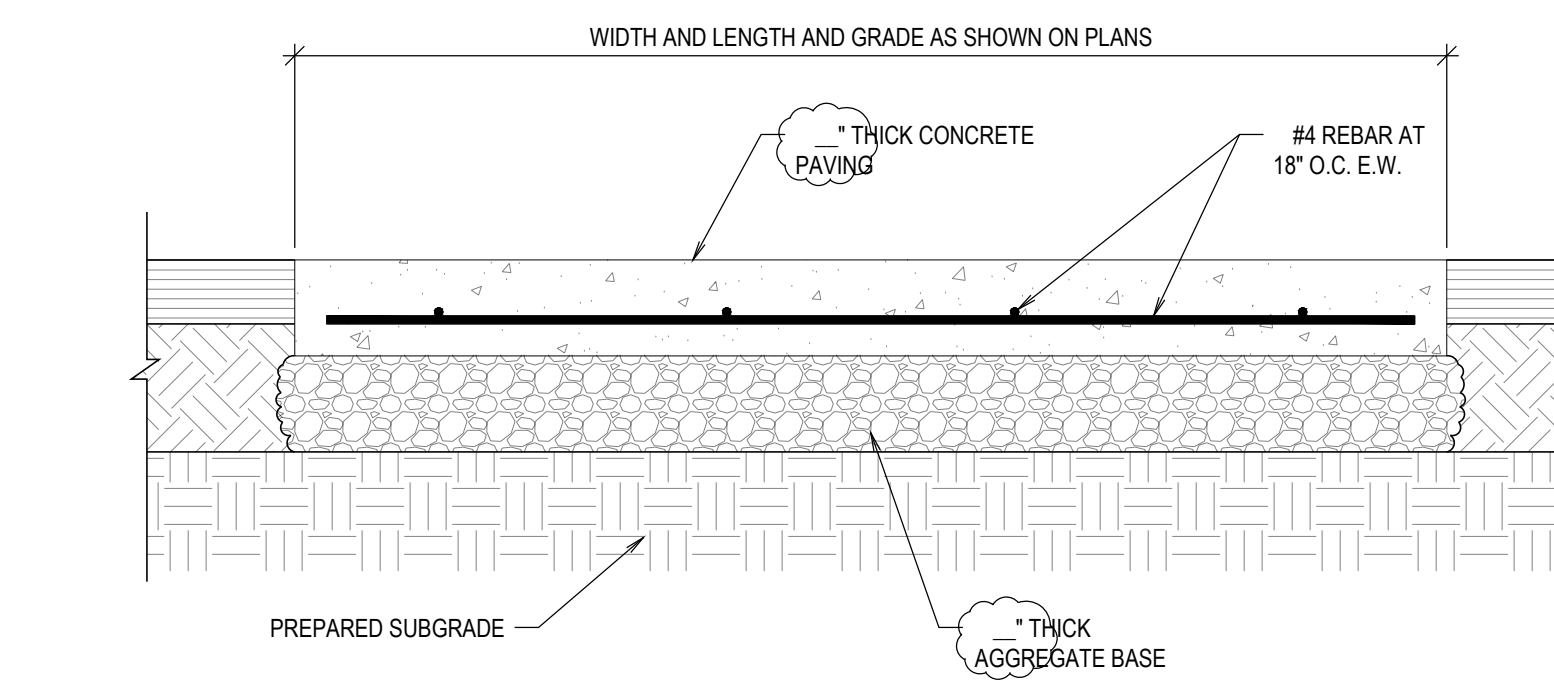
System Volume and Bed Size	
Installed Storage Volume:	29449.17 cubic ft.
Storage Volume Per Chamber:	175.90 cubic ft.
Number of Chambers Required:	101
Number of End Caps Required:	12
Chamber Rows:	6
Maximum Length:	124.01 ft.
Maximum Width:	55.75 ft.
Approx. Bed Size Required:	6853.79 square ft.
Average Cover Over Chambers:	N/A
System Components	
Amount of Stone Required:	1038 cubic yards
Volume of Excavation (Not Including Fill):	1714 cubic yards
Total Non-woven Geotextile Required:	2152 square yards
Woven Geotextile Required (excluding Isolator Row):	146 square yards
Woven Geotextile Required (Isolator Row):	275 square yards
Total Woven Geotextile Required:	421 square yards
Impervious Liner Required:	0 square yards



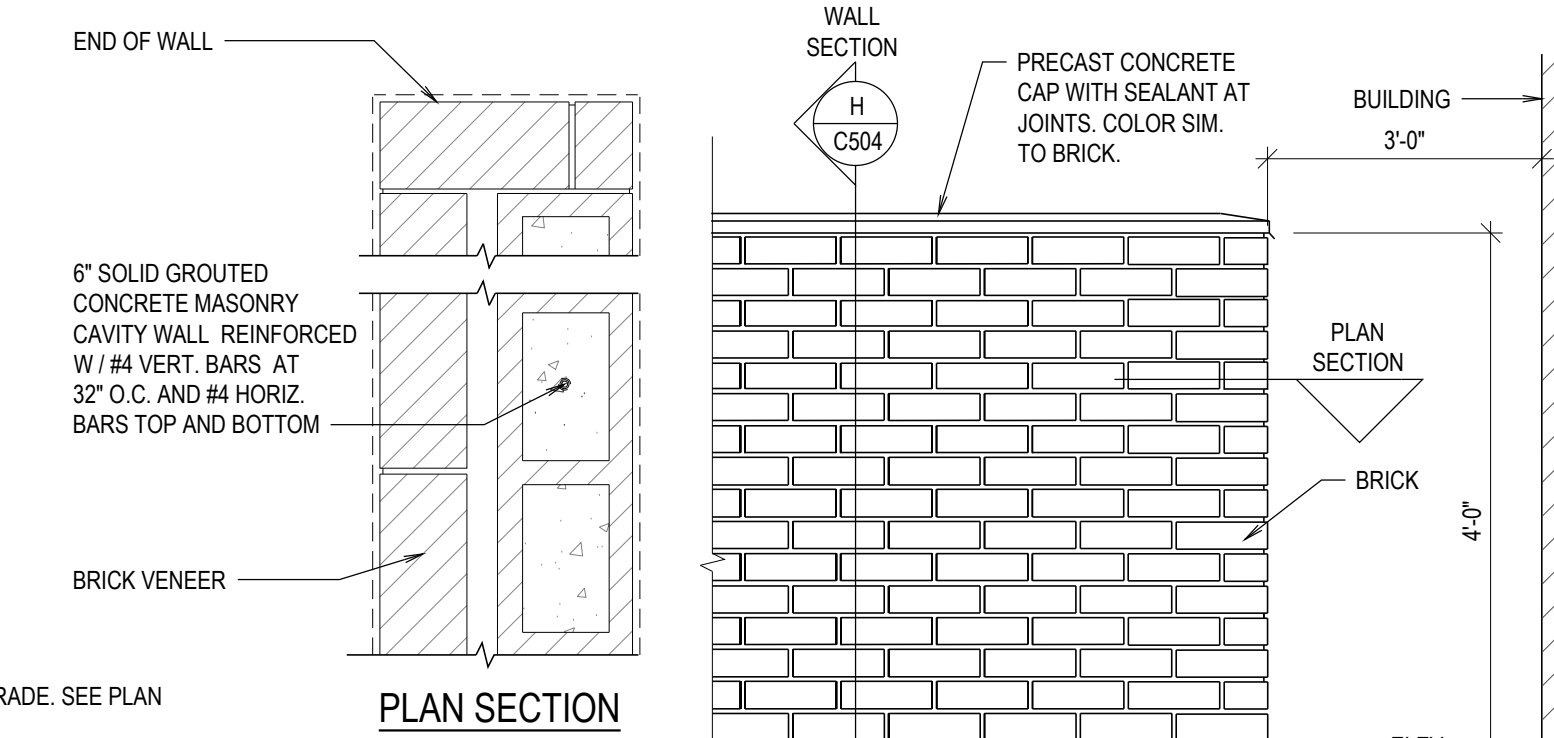




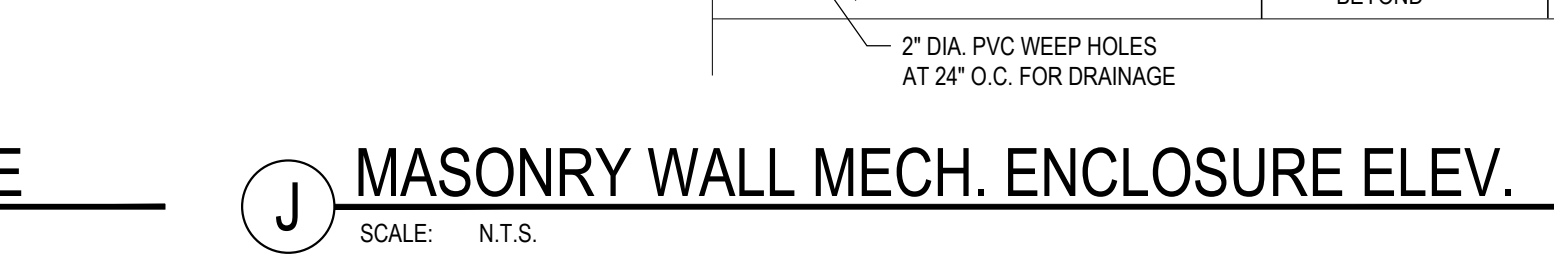
**B MASONRY WALL DUMPSTER ENCLOSURE**  
SCALE: N.T.S.



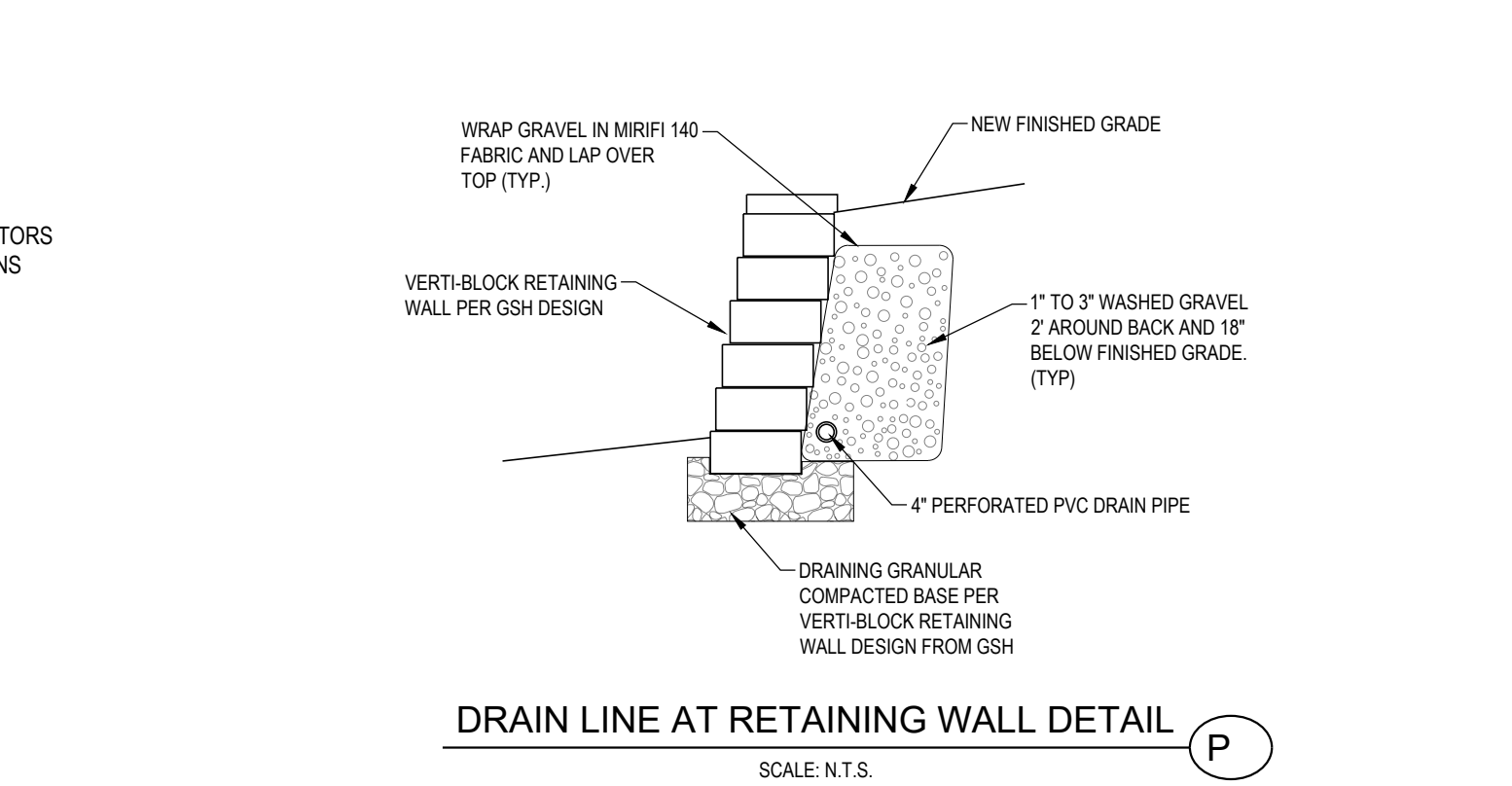
**E DUMPSTER PAD SECTION**  
SCALE: N.T.S.



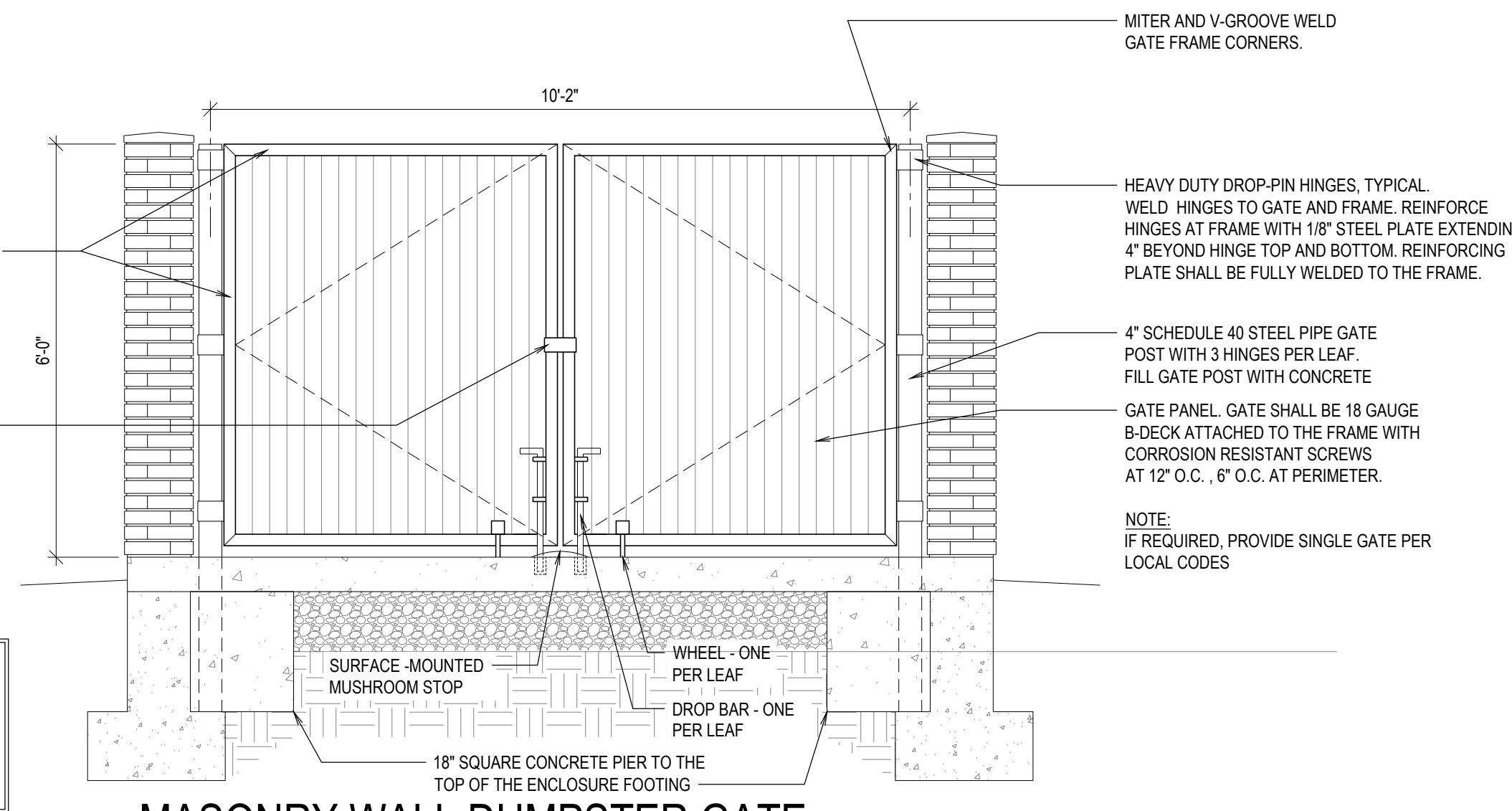
**J MASONRY WALL MECH. ENCLOSURE ELEV.**  
SCALE: N.T.S.



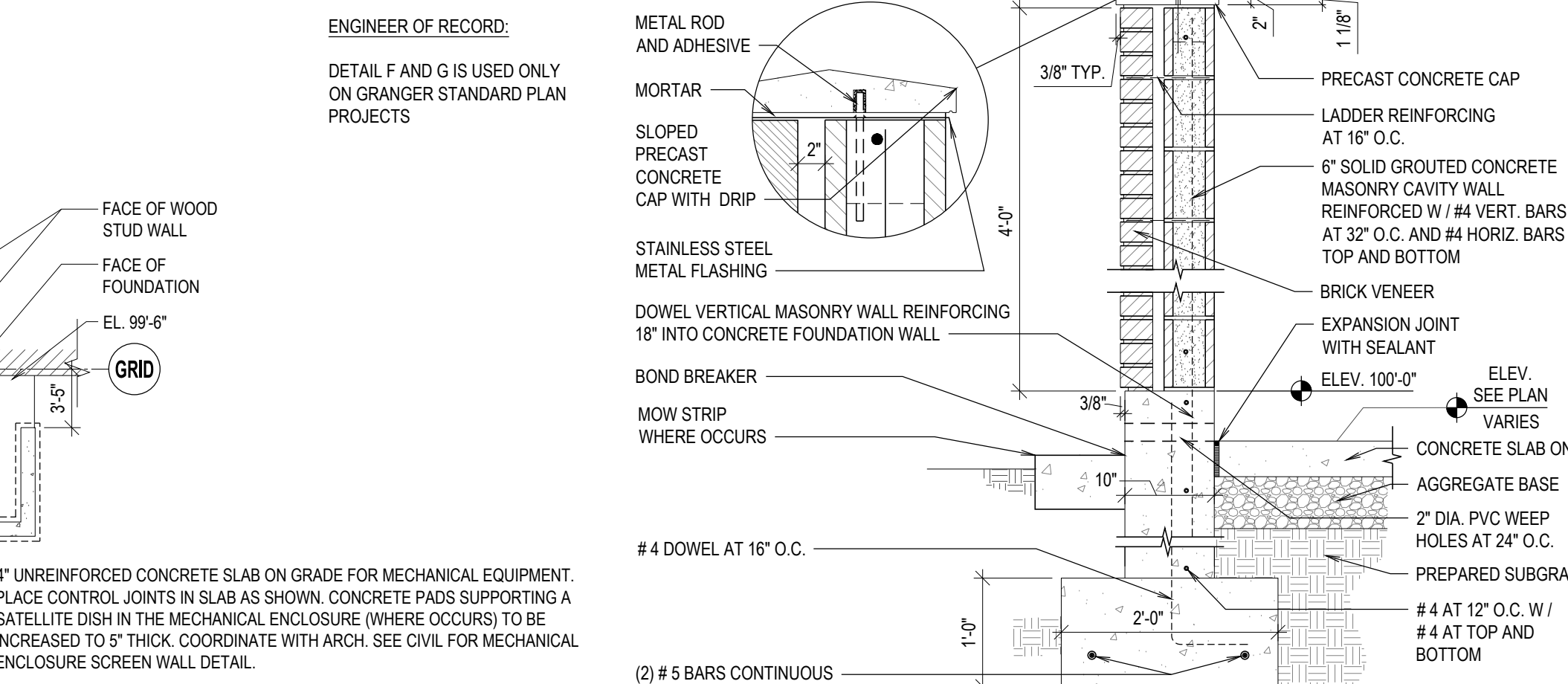
**H MASONRY WALL MECHANICAL ENCLOSURE**  
SCALE: N.T.S. (ALTERNATE TO G/C504) - FOR RIBBED SLAB FOUNDATION TYPE



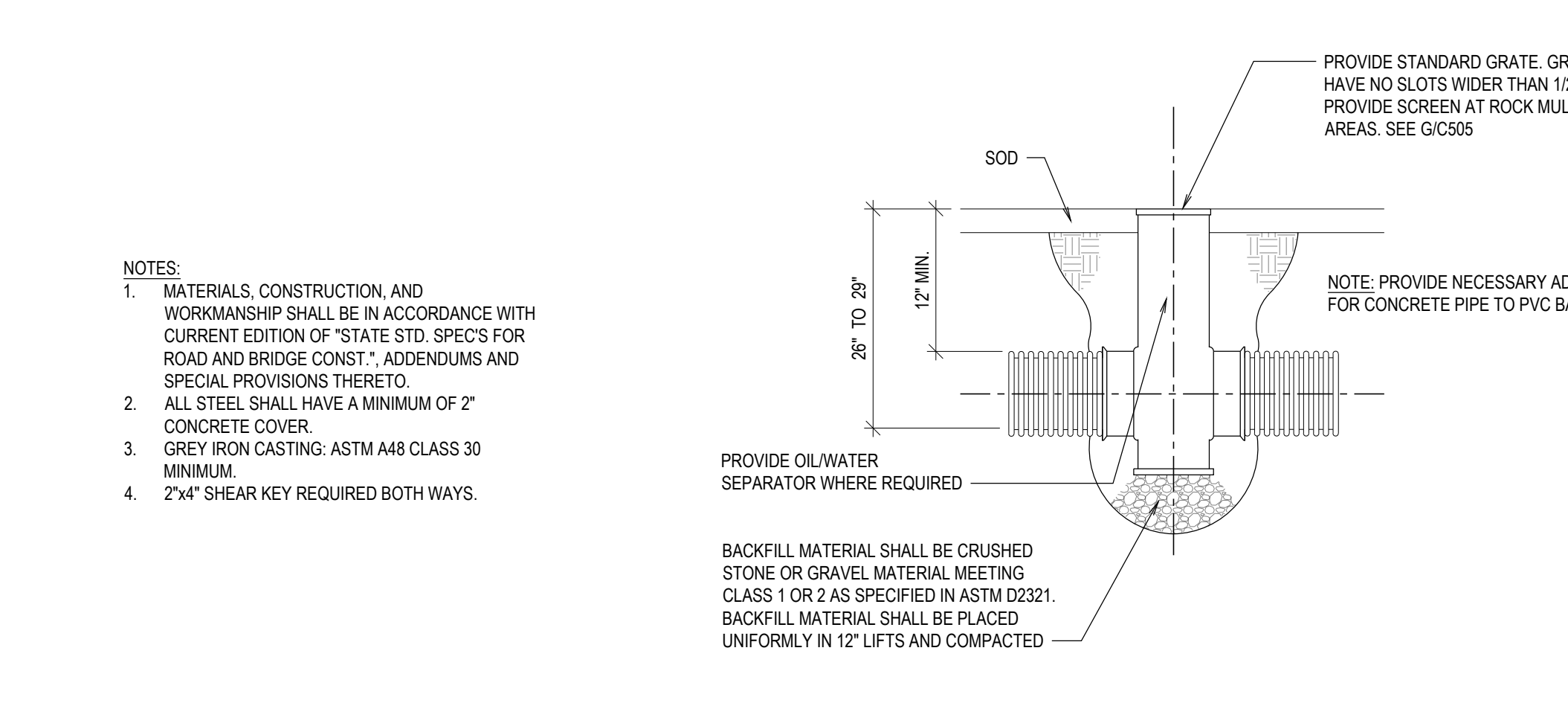
**P DRAIN LINE AT RETAINING WALL DETAIL**  
SCALE: N.T.S.



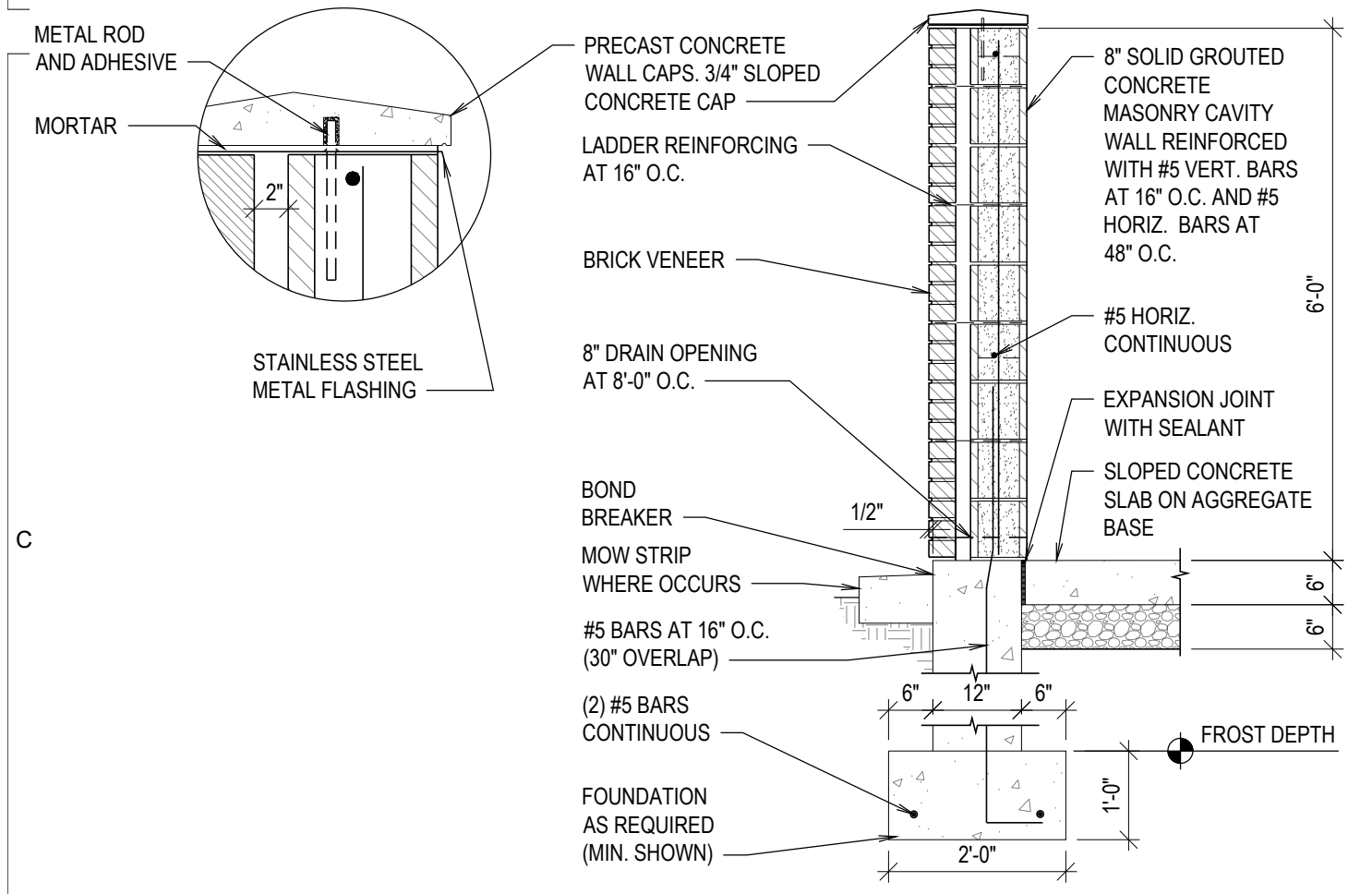
**D MASONRY WALL DUMPSTER GATE**  
SCALE: N.T.S.



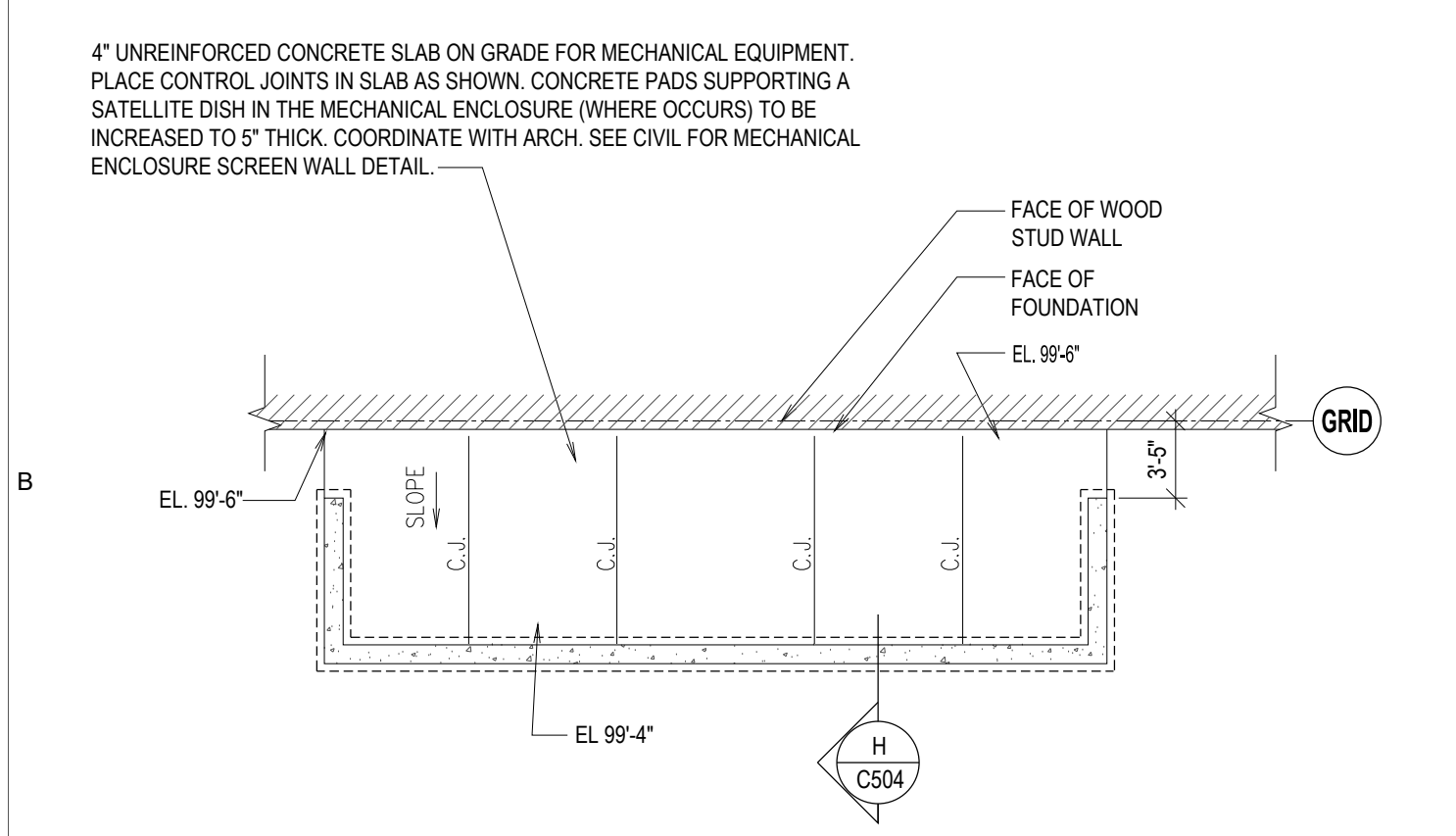
**G MECHANICAL ENCLOSURE AT CORNER WALL**  
SCALE: N.T.S.



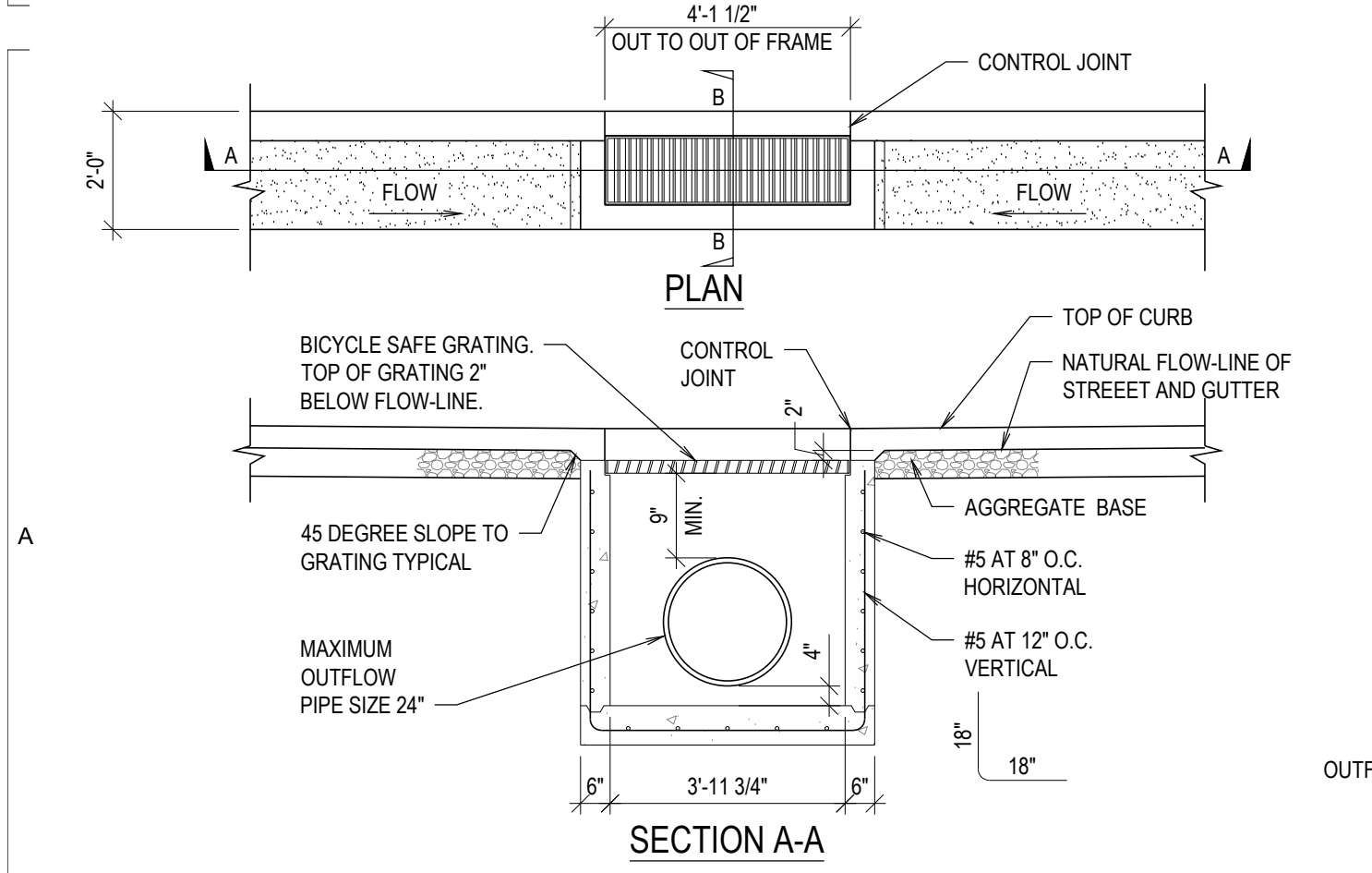
**N 12" AREA NYLOPLAST DRAIN BOX**  
SCALE: N.T.S. NOTE: (DIAMETER OF BASIN DETERMINED BY NUMBER OF PIPES IN AND OUT)



**C MASONRY WALL DUMPSTER ENCLOSURE**  
SCALE: N.T.S.



**F MECHANICAL ENCLOSURE AT STRAIGHT WALL**  
SCALE: N.T.S.



**M SINGLE GUTTER INLET BOX**  
SCALE: N.T.S.

**NOTES:**  
1. ALL STEEL COMPONENTS OF THE DUMPSTER ENCLOSURE SHALL BE FINISHED PER DIVISION 05.  
2. PROVIDE 3 SURFACE-MOUNTED MUSHROOM STOPS: 1 AT THE CLOSED POSITION AND 1 FOR EACH GATE LEAF AT THE OPEN POSITION.

**ENGINEER OF RECORD:**  
DETAIL F AND G IS USED ONLY ON GRANGER STANDARD PLAN PROJECTS

**NOTES:**  
1. MATERIALS, CONSTRUCTION, AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH CURRENT EDITION OF "STATE STD. SPECS FOR ROAD AND BRIDGE CONST.", ADDENDUMS AND SPECIAL PROVISIONS THERETO.  
2. ALL STEEL SHALL HAVE A MINIMUM OF 2" CONCRETE COVER.  
3. GREY IRON CASTING: ASTM A48 CLASS 30 MINIMUM.  
4. 2"x4" SHEAR KEY REQUIRED BOTH WAYS.

4" UNREINFORCED CONCRETE SLAB ON GRADE FOR MECHANICAL EQUIPMENT. PLACE CONTROL JOINTS IN SLAB AS SHOWN. CONCRETE PADS SUPPORTING A SATELLITE DISH IN THE MECHANICAL ENCLOSURE (WHERE OCCURS) TO BE INCREASED TO 5" THICK. COORDINATE WITH ARCH. SEE CIVIL FOR MECHANICAL ENCLOSURE SCREEN WALL DETAIL.

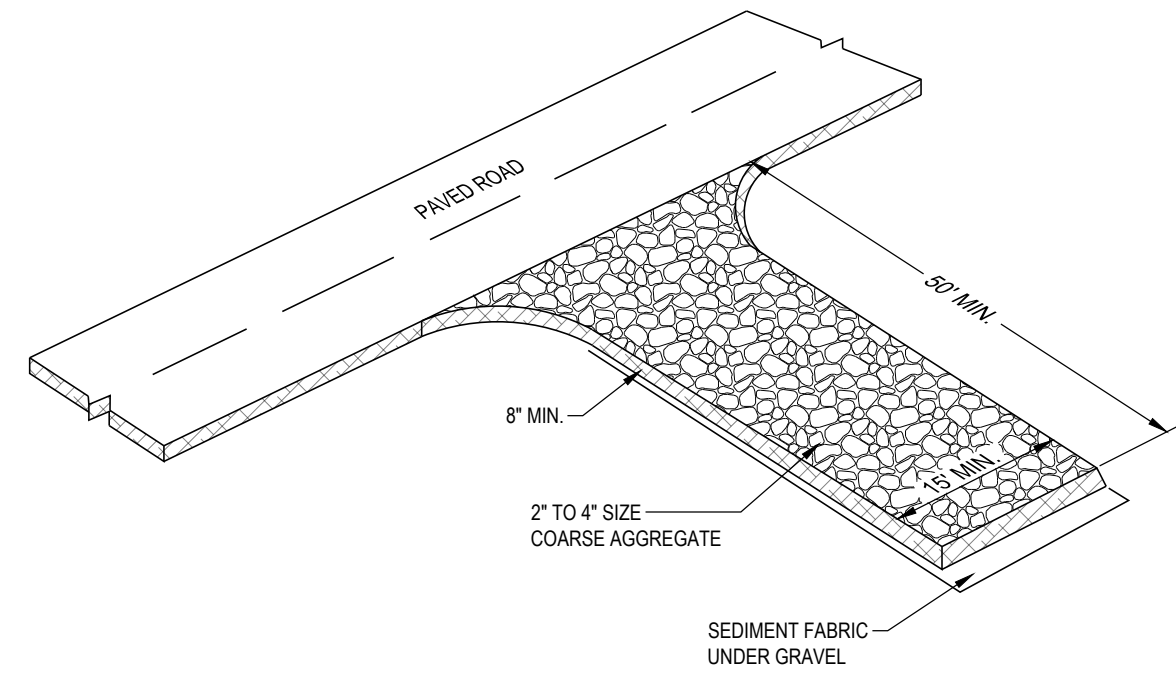
4" UNREINFORCED CONCRETE SLAB ON GRADE FOR MECHANICAL EQUIPMENT. PLACE CONTROL JOINTS IN SLAB AS SHOWN. CONCRETE PADS SUPPORTING A SATELLITE DISH IN THE MECHANICAL ENCLOSURE (WHERE OCCURS) TO BE INCREASED TO 5" THICK. COORDINATE WITH ARCH. SEE CIVIL FOR MECHANICAL ENCLOSURE SCREEN WALL DETAIL.

PROVIDE STANDARD GRATE. GRATE TO HAVE NO SLOTS WIDER THAN 1/2". PROVIDE SCREEN AT ROCK MULCH AREAS. SEE G/C505

BACKFILL MATERIAL SHALL BE CRUSHED STONE OR GRAVEL MATERIAL MEETING CLASS 1 OR 2 AS SPECIFIED IN ASTM D2321. BACKFILL MATERIAL SHALL BE PLACED UNIFORMLY IN 12" LIFTS AND COMPACTED

**DRAIN LINE AT RETAINING WALL DETAIL**  
SCALE: N.T.S.





**DESCRIPTION:**  
A STABILIZED PAD OF CRUSHED STONE LOCATED WHERE CONSTRUCTION TRAFFIC ENTERS OR LEAVES THE SITE FROM OR TO PAVED SURFACE.

**APPLICATIONS:**  
AT ANY POINT OF INGRESS OR EGRESS AT A CONSTRUCTION SITE WHERE ADJACENT TRAVELED WAY IS PAVED. GENERALLY APPLIES TO SITES OVER 2 ACRES UNLESS SPECIAL CONDITIONS EXIST.

**INSTALLATION/APPLICATION CRITERIA:**

- CLEAR GRUB AREA AND GRADE TO PROVIDE MAXIMUM SLOPE OF 2%.
- COMPACT SUB GRADE AND PLACE FILTER FABRIC IF DESIRED (RECOMMENDED FOR ENTRANCES TO REMAIN FOR MORE THAN 3 MONTHS).
- PLACE COARSE AGGREGATE, 1 TO 2-1/2 INCHES IN SIZE, TO A MINIMUM DEPTH OF 8 INCHES.

**LIMITATIONS:**

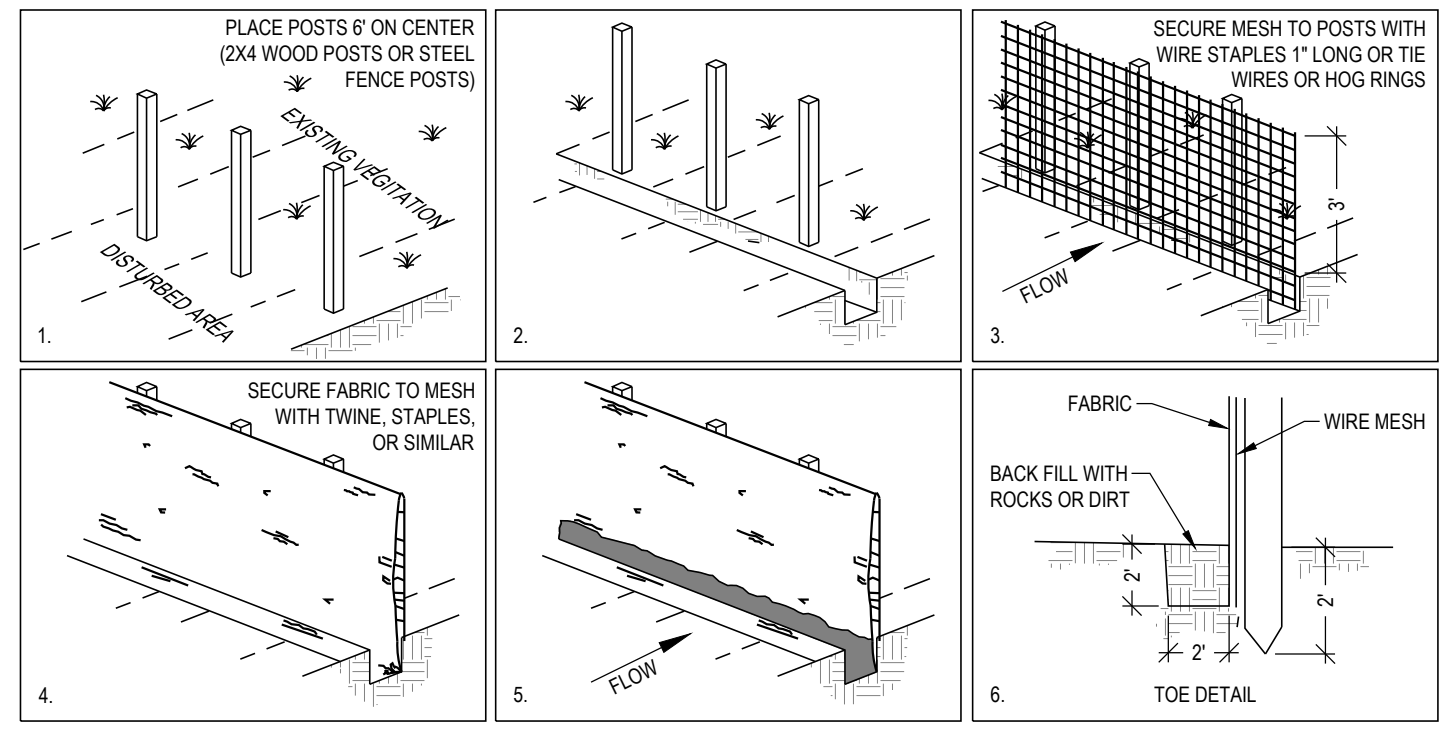
- REQUIRES PERIODIC TOP DRESSING WITH ADDITIONAL STONES.
- SHOULD BE USED IN CONJUNCTION WITH STREET SWEEPING ON ADJACENT PUBLIC RIGHT-OF-WAY.

**MAINTENANCE:**

- INSPECT DAILY FOR LOSS OF GRAVEL OR SEDIMENT BUILDUP.
- INSPECT ADJACENT ROADWAY FOR SEDIMENT DEPOSIT AND CLEAN BY SWEEPING OR SHOVELING.
- REPAIR ENTRANCE AND REPLACE GRAVEL AS REQUIRED TO MAINTAIN CONTROL IN GOOD WORKING CONDITION.
- EXPAND STABILIZED AREA AS REQUIRED TO ACCOMMODATE TRAFFIC AND PREVENT EROSION AT DRIVEWAYS.

- OBJECTIVES**
- ☑ HOUSEKEEPING PRACTICES
  - ☑ CONTAIN WASTE
  - ☑ MINIMIZE DISTURBED AREA
  - ☑ STABILIZE DISTURBED AREA
  - ☑ PROTECT SLOPES/CHANNELS
  - ☑ CONTROL SITE PERIMETER
  - ☑ CONTROL INTERNAL EROSION
- TARGETED POLLUTANTS**
- SEDIMENT
  - ☐ NUTRIENTS
  - ☐ TOXIC MATERIALS
  - ☐ OIL & GREASE
  - ☐ FLOATABLE MATERIALS
  - ☐ OTHER WASTE
- IMPLEMENTATION REQUIREMENTS**
- CAPITAL COSTS
  - O & M COSTS
  - MAINTENANCE
  - ☐ TRAINING
- HIGH   ■ MEDIUM   ☐ LOW

**STABILIZED CONSTRUCTION ENTRANCE**  
SCALE: N.T.S. (A)



**DESCRIPTION:**  
A TEMPORARY SEDIMENT BARRIER CONSISTING OF ENTRENCHED FILTER FABRIC STRETCHED ACROSS AND SECURED TO SUPPORTING POSTS.

**APPLICATIONS:**

- PERIMETER CONTROL: PLACE BARRIER AT DOWNGRADE LIMITS OF DISTURBANCE.
- SEDIMENT BARRIER: PLACE BARRIER AT TOE OF SLOPE OR SOIL STOCKPILE.
- PROTECTION OF EXISTING WATERWAYS: PLACE BARRIER AT TOP OF STREAM BANK.
- INLET PROTECTION: PLACE FENCE SURROUNDING CATCH BASINS.

**INSTALLATION/APPLICATION CRITERIA:**

- PLACE POSTS 6 FEET APART ON CENTER ALONG CONTOUR (OR USE PRE-ASSEMBLED UNIT) AND DRIVE 2 FEET MINIMUM INTO GRADE. EXCAVATE AN ANCHOR TRENCH IMMEDIATELY UPGRADIENT OF POSTS.
- SECURE WIRE MESH (1/4 GAGE MIN. WITH 6 INCH OPENINGS) TO UPSLOPE SIDE OF POSTS. ATTACH WITH HEAVY DUTY 1 INCH LONG WIRE STAPLES. TIE WIRES OR HOG RINGS.
- CUT FABRIC TO REQUIRED WIDTH. UNROLL ALONG LENGTH OF BARRIER AND DRAPE OVER BARRIER. SECURE FABRIC TO MESH WITH TWINE, STAPLES, OR SIMILAR, WITH TRAILING EDGE EXTENDING INTO ANCHOR TRENCH.
- BACKFILL OVER FILTER FABRIC TO ANCHOR.

**LIMITATIONS:**

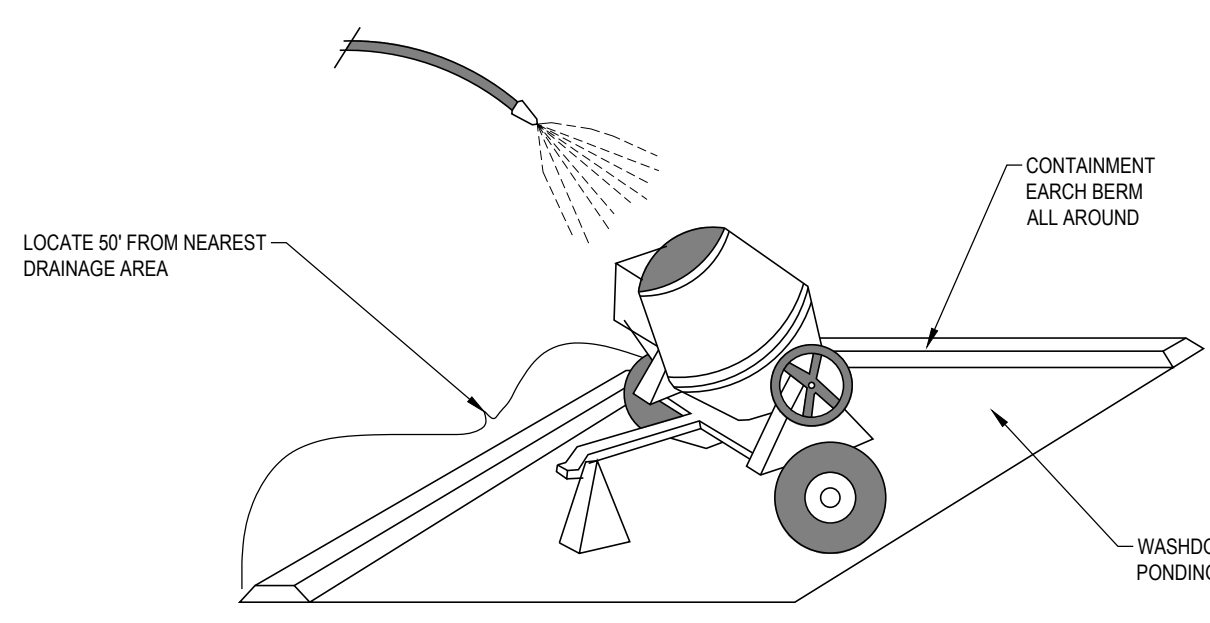
- RECOMMENDED MAXIMUM DRAINAGE AREA OF 0.5 ACRE PER 100 FEET OF FENCE.
- RECOMMENDED MAXIMUM UPHILL GRADE OF 2:1 (50%).
- RECOMMENDED MAXIMUM FLOW RATE OF 0.5 CFS.
- PONDING SHOULD NOT BE ALLOWED BEHIND FENCE.

**MAINTENANCE:**

- INSPECT IMMEDIATELY AFTER ANY RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL.
- LOOK FOR RUNOFF BYPASSING ENDS OF BARRIERS OR UNDERCUTTING BARRIERS.
- REPAIR OR REPLACE DAMAGED AREAS OF THE BARRIER AND REMOVE ACCUMULATED SEDIMENT.
- REANCHOR FENCE AS NECESSARY TO PREVENT SHORTCUTTING.
- REMOVE ACCUMULATED SEDIMENT WHEN IT REACHES 1/2 THE HEIGHT OF THE FENCE.

- OBJECTIVES**
- ☐ HOUSEKEEPING PRACTICES
  - ☐ CONTAIN WASTE
  - ☐ MINIMIZE DISTURBED AREA
  - ☐ STABILIZE DISTURBED AREA
  - ☐ PROTECT SLOPES/CHANNELS
  - ☐ CONTROL SITE PERIMETER
  - ☐ CONTROL INTERNAL EROSION
- TARGETED POLLUTANTS**
- SEDIMENT
  - ☐ NUTRIENTS
  - ☐ TOXIC MATERIALS
  - ☐ OIL & GREASE
  - ☐ FLOATABLE MATERIALS
  - ☐ OTHER WASTE
- IMPLEMENTATION REQUIREMENTS**
- CAPITAL COSTS
  - O & M COSTS
  - MAINTENANCE
  - ☐ TRAINING
- HIGH   ■ MEDIUM   ☐ LOW

**SILT FENCE**  
SCALE: N.T.S. (B)



- OBJECTIVES**
- ☐ HOUSEKEEPING PRACTICES
  - ☐ CONTAIN WASTE
  - ☐ MINIMIZE DISTURBED AREA
  - ☐ STABILIZE DISTURBED AREA
  - ☐ PROTECT SLOPES/CHANNELS
  - ☐ CONTROL SITE PERIMETER
  - ☐ CONTROL INTERNAL EROSION
- TARGETED POLLUTANTS**
- ☐ SEDIMENT
  - ☐ NUTRIENTS
  - ☐ TOXIC MATERIALS
  - ☐ OIL & GREASE
  - ☐ FLOATABLE MATERIALS
  - ☐ OTHER WASTE
- IMPLEMENTATION REQUIREMENTS**
- CAPITAL COSTS
  - ☐ O & M COSTS
  - MAINTENANCE
  - ☐ TRAINING
- HIGH   ■ MEDIUM   ☐ LOW

**DESCRIPTION:**  
PREVENT OR REDUCE THE DISCHARGE OF POLLUTANTS TO STORM WATER FROM CONCRETE WASTE BY CONDUCTING WASHOUT OFF-SITE, PERFORMING ON-SITE WASHOUT IN A DESIGNATED AREA, AND TRAINING EMPLOYEES AND SUBCONTRACTORS.

**APPLICATIONS:**

- THIS TECHNIQUE IS APPLICABLE TO ALL TYPES OF SITES.

**INSTALLATION/APPLICATION CRITERIA:**

- STORE DRY AND WET MATERIALS UNDER COVER, AWAY FROM DRAINAGE AREAS.
- AVOID MIXING EXCESS AMOUNTS OF FRESH CONCRETE OR GEMENT ON-SITE.
- PERFORM WASHOUT OF CONCRETE TRUCKS OFF-SITE OR IN DESIGNATED AREAS ONLY.
- DO NOT WASH OUT CONCRETE TRUCKS INTO STORM DRAINS, OPEN DITCHES, STREETS, OR STREAMS.
- DO NOT ALLOW EXCESS CONCRETE TO BE DUMPED ON-SITE, EXCEPT IN DESIGNATED AREAS.
- WHEN WASHING CONCRETE TO REMOVE FINE PARTICLES AND EXPOSE THE AGGREGATE, AVOID CREATING RUNOFF BY DRAINING THE WATER WITHIN A BERMED OR LEVEL AREA (SEE EARTH BERM BARRIER INFORMATION SHEET).
- TRAIN EMPLOYEES AND SUBCONTRACTORS IN PROPER CONCRETE WASTE MANAGEMENT.

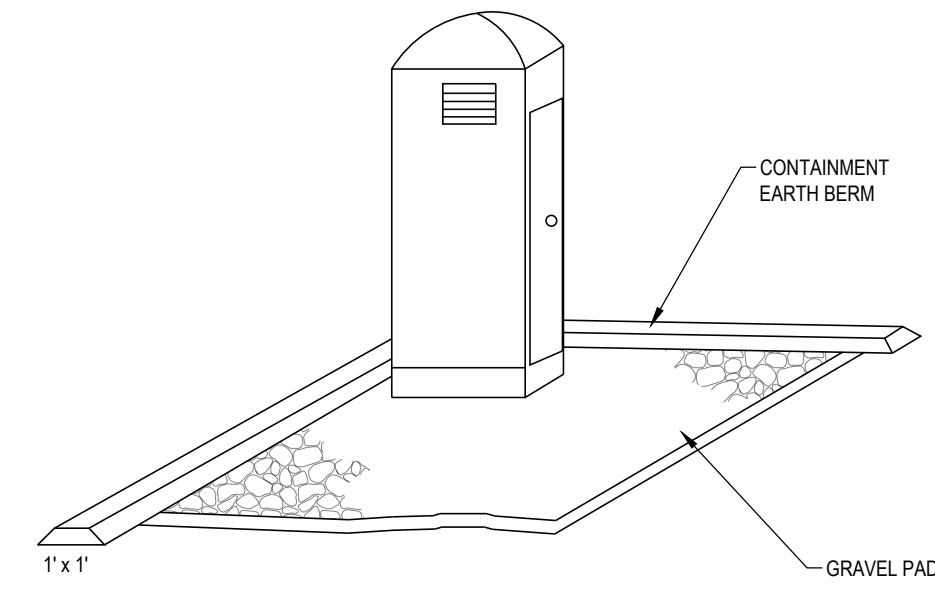
**LIMITATIONS:**

- OFF-SITE WASHOUT OF CONCRETE WASTES MAY NOT ALWAYS BE POSSIBLE.

**MAINTENANCE:**

- INSPECT SUBCONTRACTORS TO ENSURE THAT CONCRETE WASTES ARE BEING PROPERLY MANAGED.
- IF USING A TEMPORARY PIT, DISPOSE HARDENED CONCRETE ON A REGULAR BASIS.

**CONCRETE WASTE MANAGEMENT**  
SCALE: N.T.S. (E)



**DESCRIPTION:**  
TEMPORARY ON-SITE SANITARY FACILITIES FOR CONSTRUCTION PERSONNEL.

**APPLICATIONS:**

- ALL SITES WITH NO PERMANENT SANITARY FACILITIES OR WHERE PERMANENT FACILITY IS TO FAR FROM ACTIVITIES.

**INSTALLATION/APPLICATION CRITERIA:**

- LOCATE PORTABLE TOILETS IN CONVENIENT LOCATIONS THROUGHOUT THE SITE.
- PREPARE LEVEL, GRAVEL SURFACE AND PROVIDE CLEAR ACCESS TO THE TOILETS FOR SERVICING AND FOR ON-SITE PERSONNEL.
- CONSTRUCT EARTH BERM PERIMETER (SEE EARTH BERM BARRIER INFORMATION SHEET), CONTROL FOR SPILL/PROTECTION LEAK.

**LIMITATIONS:**

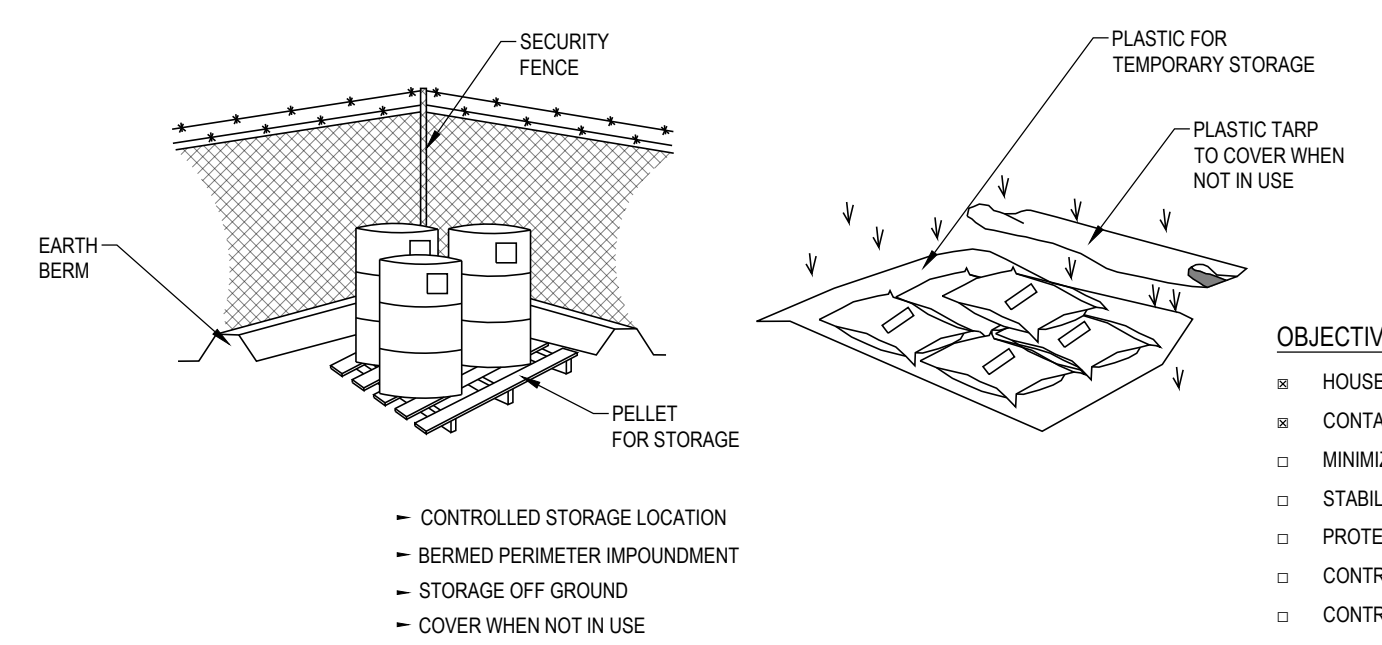
- NO LIMITATIONS

**MAINTENANCE:**

- PORTABLE TOILETS SHOULD BE MAINTAINED IN GOOD WORKING ORDER BY LICENSED SERVICE WITH DAILY OBSERVATION FOR LEAK DETECTION.
- REGULAR WASTE COLLECTION SHOULD BE ARRANGED WITH LICENSED SERVICE.
- ALL WASTE SHOULD BE DEPOSITED IN SANITARY SEWER SYSTEM FOR TREATMENT WITH APPROPRIATE AGENCY APPROVAL.

- OBJECTIVES**
- ☑ HOUSEKEEPING PRACTICES
  - ☑ CONTAIN WASTE
  - ☑ MINIMIZE DISTURBED AREA
  - ☑ STABILIZE DISTURBED AREA
  - ☑ PROTECT SLOPES/CHANNELS
  - ☑ CONTROL SITE PERIMETER
  - ☑ CONTROL INTERNAL EROSION
- TARGETED POLLUTANTS**
- ☐ SEDIMENT
  - ☐ NUTRIENTS
  - ☐ TOXIC MATERIALS
  - ☐ OIL & GREASE
  - ☐ FLOATABLE MATERIALS
  - ☐ OTHER WASTE
- IMPLEMENTATION REQUIREMENTS**
- CAPITAL COSTS
  - O & M COSTS
  - MAINTENANCE
  - ☐ TRAINING
- HIGH   ■ MEDIUM   ☐ LOW

**PORTABLE TOILETS**  
SCALE: N.T.S. (C)



**DESCRIPTION:**  
CONTROLLED STORAGE OF ON-SITE MATERIALS.

**APPLICATIONS:**

- STORAGE OF HAZARDOUS, TOXIC, AND ALL CHEMICAL SUBSTANCES.
- ANY CONSTRUCTION SITE WITH OUTSIDE STORAGE OF MATERIALS.

**INSTALLATION/APPLICATION CRITERIA:**

- DESIGNATE A SECURED AREA WITH LIMITED ACCESS AS THE STORAGE LOCATION. ENSURE NO WATERWAYS OR DRAINAGE PATHS ARE NEARBY.
- CONSTRUCT COMPACTED EARTHEN BERM (SEE EARTH BERM BARRIER INFORMATION SHEET), OR SIMILAR PERIMETER CONTAINMENT AROUND STORAGE LOCATION FOR IMPOUNDMENT IN THE CASE OF SPILLS.
- ENSURE ALL ON-SITE PERSONNEL UTILIZE DESIGNATED STORAGE AREA. DO NOT STORE EXCESSIVE AMOUNTS OF MATERIAL THAT WILL NOT BE UTILIZED ON SITE.
- FOR ACTIVE USE OF MATERIAL AWAY FROM THE STORAGE AREA ENSURE MATERIALS ARE NOT SET DIRECTLY ON THE GROUND AND ARE COVERED WHEN NOT IN USE. PROTECT STORM DRAINAGE DURING USE.

**LIMITATIONS:**

- DOES NOT PREVENT CONTAMINATION DUE TO MISHANDLING OF PRODUCTS.
- SPILL PREVENTION AND RESPONSE PLAN STILL REQUIRED.
- ONLY EFFECTIVE IF MATERIALS ARE ACTIVELY STORED IN CONTROLLED LOCATION.

**MAINTENANCE:**

- INSPECT DAILY AND REPAIR ANY DAMAGE TO PERIMETER IMPOUNDMENT OR SECURITY FENCING.
- CHECK MATERIALS ARE BEING CORRECTLY STORED (I.E. STANDING UPRIGHT, IN LABELED CONTAINERS, TIGHTLY CAPPED) AND THAT NO MATERIALS ARE BEING STORED AWAY FROM THE DESIGNATED LOCATION.

- OBJECTIVES**
- ☑ HOUSEKEEPING PRACTICES
  - ☑ CONTAIN WASTE
  - ☑ MINIMIZE DISTURBED AREA
  - ☑ STABILIZE DISTURBED AREA
  - ☑ PROTECT SLOPES/CHANNELS
  - ☑ CONTROL SITE PERIMETER
  - ☑ CONTROL INTERNAL EROSION
- TARGETED POLLUTANTS**
- ☐ SEDIMENT
  - ☐ NUTRIENTS
  - ☐ TOXIC MATERIALS
  - ☐ OIL & GREASE
  - ☐ FLOATABLE MATERIALS
  - ☐ OTHER WASTE
- IMPLEMENTATION REQUIREMENTS**
- CAPITAL COSTS
  - O & M COSTS
  - MAINTENANCE
  - ☐ TRAINING
- HIGH   ■ MEDIUM   ☐ LOW

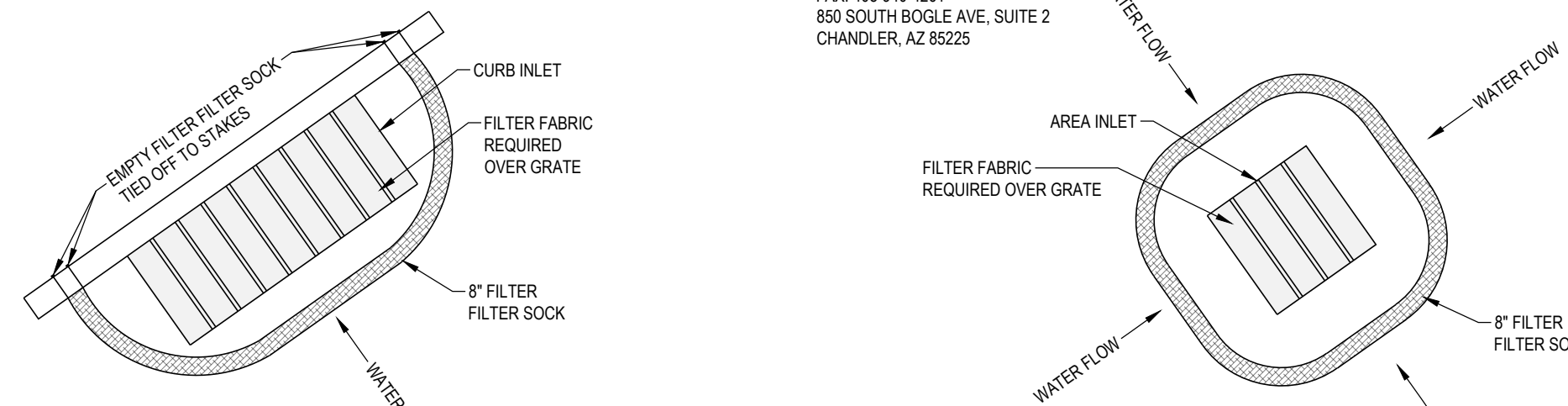
**MATERIALS STORAGE**  
SCALE: N.T.S. (F)

**FILTERSOCK SPECIFICATION:**

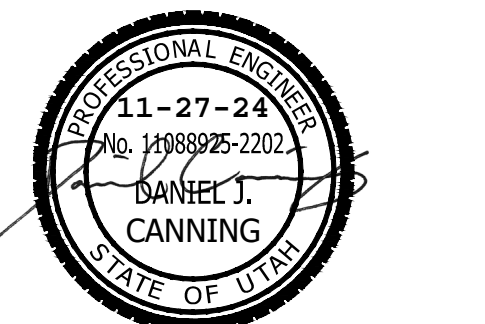
**FILTREXX FILTERSOCK INSTALLATION AND MAINTENANCE**

- 1.0 DESCRIPTION:**  
THIS WORK SHALL CONSIST OF FURNISHING, INSTALLING, MAINTAINING AND DISPERSING (IF NEEDED), A WATER PERMEABLE COMPOST FILTER SOCK (FILTREXX FILTERSOCK) TO CONTAIN SOIL EROSION AND SEDIMENT BY REMOVING SOIL PARTICLES FROM WATER MOVING OFF SITE INTO ADJACENT WATERWAYS OR STORM WATER DRAINAGE SYSTEMS. FILTERSOCKS WILL BE USED AS A FORM OF INLET PROTECTION FOR OPERATIONAL STORM DRAINAGE SYSTEMS.
- 2.0 COMPOST PRODUCTS USED TO FILL FILTREXX FILTERSOCKS**
- A. COMPOST: COMPOST USED FOR FILTREXX FILTERSOCKS SHALL BE WEED FREE AND DERIVED FROM A WELL-DECOMPOSED SOURCE OF ORGANIC MATTER. THE COMPOST SHALL BE PRODUCED USING AN AEROBIC COMPOSTING PROCESS MEETING CFR 303 REGULATIONS INCLUDING TIME AND TEMPERATURE DATA INDICATING EFFECTIVE WEED SEED, PATHOGEN AND INSECT LARVAE KILL. THE COMPOST SHALL BE FREE OF ANY REFUSE, CONTAMINANTS OR OTHER MATERIALS TOXIC TO PLANT GROWTH. NON-COMPOSTED PRODUCTS WILL NOT BE ACCEPTED. TEST METHODS FOR THE ITEMS BELOW SHOULD FOLLOW USDC TMECC GUIDELINES FOR LABORATORY PROCEDURES:
- A. PH - 5.0-8.0 IN ACCORDANCE WITH TMECC 04.11-A, "ELECTROMETRIC PH DETERMINATIONS FOR COMPOST"
- B. PARTICLE SIZE - 99% PASSING A 1" SIEVE, 90% PASSING A 1/2" SIEVE AND A MINIMUM OF 70% GREATER THAN THE 3/8" SIEVE. A TOTAL OF 36% SHALL NOT EXCEED 3 INCHES IN LENGTH, IN ACCORDANCE WITH TMECC 02.02-G, "SAMPLE SIEVING FOR AGGREGATE SIZE CLASSIFICATION"
- C. MOISTURE CONTENT OF LESS THAN 60% IN ACCORDANCE WITH STANDARDIZED TEST METHODS FOR MOISTURE DETERMINATION.
- D. MATERIAL SHALL BE RELATIVELY FREE (<1% BY DRY WEIGHT) OF INERT OR FOREIGN MAN MADE MATERIALS.
- E. A SAMPLE SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO BEING USED AND MUST COMPLY WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS.
- 3.0 CONSTRUCTION AND INSTALLATION OF FILTREXX FILTERSOCKS**
1. FILTREXX FILTERSOCKS WILL BE USED AS A FORM OF INLET PROTECTION ON CONSTRUCTION SITES WHICH REQUIRE PROTECTION AGAINST SEDIMENT LADEN WATER AFTER STORM DRAINS BECOME OPERATIONAL.
  2. FILTREXX FILTERSOCKS WILL BE PLACED AT LOCATIONS INDICATED ON PLANS AS DIRECTED BY THE ENGINEER. FILTERSOCKS SHOULD BE INSTALLED IN A PATTERN THAT ALLOWS COMPLETE PROTECTION OF THE INLET AREA.
  3. INSTALLATION OF FILTREXX FILTERSOCKS WILL ENSURE A MINIMAL OVERLAP OF AT LEAST ONE FOOT ON EITHER SIDE OF THE OPENING BEING PROTECTED. THE FILTERSOCKS WILL BE ANCHORED TO THE SOIL BEHIND THE CURB USING STAPLES, STAKES OR OTHER DEVICES CAPABLE OF HOLDING THE FILTERSOCK IN PLACE.
  4. STANDARD SIZES OF FILTERSOCKS FOR INLET PROTECTION WILL BE 8" DIAMETER PRODUCTS. IN SEVERE FLOW SITUATIONS, LARGER FILTERSOCKS MAY BE RECOMMENDED BY THE ENGINEER.
  5. FILTERSOCKS SHALL BE CONSTRUCTED OF A WOVEN MATERIAL AND FILLED WITH A COMPOST PRODUCT THAT PASSES THE CRITERIA LISTED IN SECTION 2.
  6. IF THE FILTERSOCKS BECOME CLOGGED WITH DEBRIS AND SEDIMENT, THEY SHALL BE MAINTAINED SO AS TO ASSURE A PROPER DRAINAGE AND WATER FLOW INTO THE STORM DRAIN. IN SEVERE STORM EVENTS, OVERFLOW OF THE FILTERSOCK MAY BE ACCEPTABLE IN ORDER TO KEEP THE AREA FROM FLOODING.
  7. THE FILTERSOCKS SHALL BE POSITIONED SO AS TO PROVIDE COMPLETE PHYSICAL BARRIER TO THE DRAIN ITSELF, ALLOWING SEDIMENT TO COLLECT ON THE OUTSIDE OF THE

- 4.0 MAINTENANCE:**
1. THE CONTRACTOR SHALL MAINTAIN FILTREXX FILTERSOCKS IN A FUNCTIONAL CONDITION AT ALL TIMES AND IT SHALL BE ROUTINELY INSPECTED.
  2. WHERE THE FILTERSOCK REQUIRES REPAIR, IT WILL BE ROUTINELY REPAIRED.
  3. THE CONTRACTOR SHALL REMOVE SEDIMENTS COLLECTED AT THE BASE OF THE FILTERSOCK WHEN THEY REACH 1/3 OF THE EXPOSED HEIGHT OF THE FILTERSOCK, OR AS DIRECTED BY THE ENGINEER.
  4. THE FILTREXX FILTERSOCK WILL BE DISPERSED ON SITE WHEN NO LONGER REQUIRED, AS DETERMINED BY THE ENGINEER. THE NETTING MATERIAL WILL BE DISPOSED OF IN NORMAL TRASH CONTAINERS OR REMOVED BY THE CONTRACTOR.
  5. REGULAR MAINTENANCE INCLUDES LIFTING THE FILTREXX FILTERSOCKS AND CLEANING UNDER THEM AS SEDIMENT COLLECTS.
- 5.0 METHOD OF MEASUREMENT:**  
BID ITEMS SHALL SHOW MEASUREMENT AS 'FILTREXX FILTERSOCK' PER LINEAR FOOT, INSTALLED OR PER INLET, AS SPECIFIED BY THE ENGINEER.
- 6.0 PERFORMANCE:**
1. CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING A WORKING EROSION CONTROL SYSTEM AND MAY, WITH APPROVAL OF THE ENGINEER, WORK OUTSIDE THE MINIMUM CONSTRUCTION REQUIREMENTS AS NEEDED.
  2. WHERE THE FILTERSOCK DETERIORATES OR FAILS, IT WILL BE REPAIRED OR REPLACED WITH A MORE EFFECTIVE ALTERNATIVE.
  3. CONTRACTOR IS REQUIRED TO BE A CERTIFIED FILTREXX INSTALLER AS DETERMINED BY FILTREXX INTERNATIONAL, LLC (440-226-8041 OR VISIT WEBSITE AT FILTREXX.COM). CERTIFICATION SHALL BE CONSIDERED CURRENT IF APPROPRIATE IDENTIFICATION IS SHOWN DURING TIME OF BID OR AT TIME OF APPLICATION.
- 7.0 APPLICATION GUIDELINES:**
1. FILTREXX FILTERSOCKS SHALL EITHER BE MADE ON SITE OR DELIVERED TO THE JOBSITE USING A 3/4" TUBULAR HOPE KNITTED MESH NETTING MATERIAL FILLED WITH COMPOST PASSING THE ABOVE SPECIFICATIONS FOR COMPOST PRODUCTS AS OUTLINED IN 2.0.
  2. FILTREXX FILTERSOCKS NETTING MATERIALS ARE AVAILABLE ONLY FROM FILTREXX INTERNATIONAL, LLC AND ARE THE ONLY CERTIFIED MESH MATERIALS ACCEPTED IN CREATING FILTREXX PRODUCTS ON SITE OR AS DELIVERED TO THE JOB SITE. STANDARD FILTREXX COLOR CODING SYSTEMS INCLUDE YELLOW AND BLACK STRIPED MESH NETTING WITH 3/8" MESH OPENINGS FOR INLET PROTECTION. OTHER COLORS ARE ONLY ACCEPTABLE AS APPROVED BY BOTH THE ENGINEER AND FILTREXX INTERNATIONAL, LLC.
  3. CONTRACTOR IS REQUIRED TO BE A CERTIFIED FILTREXX INSTALLER AS DETERMINED BY FILTREXX INTERNATIONAL, LLC (440-226-8041 OR VISIT WEBSITE AT FILTREXX.COM). CERTIFICATION SHALL BE CONSIDERED CURRENT IF APPROPRIATE IDENTIFICATION IS SHOWN DURING TIME OF BID OR AT TIME OF APPLICATION.
- 8.0 AVAILABLE VENDORS FILTREXX FILTERSOCKS MAY BE PURCHASED FROM THE FOLLOWING CERTIFIED FILTREXX INSTALLERS.**
- WINDSWEPT ORGANIX INC.  
WORK: 480-963-4638  
FAX: 408-940-4251  
850 SOUTH BOULE AV. SUITE 2  
CHANDLER, AZ 85225



**SEDIMENT BARRIER / FILTER SOCK PROTECTION**  
SCALE: N.T.S. (D)

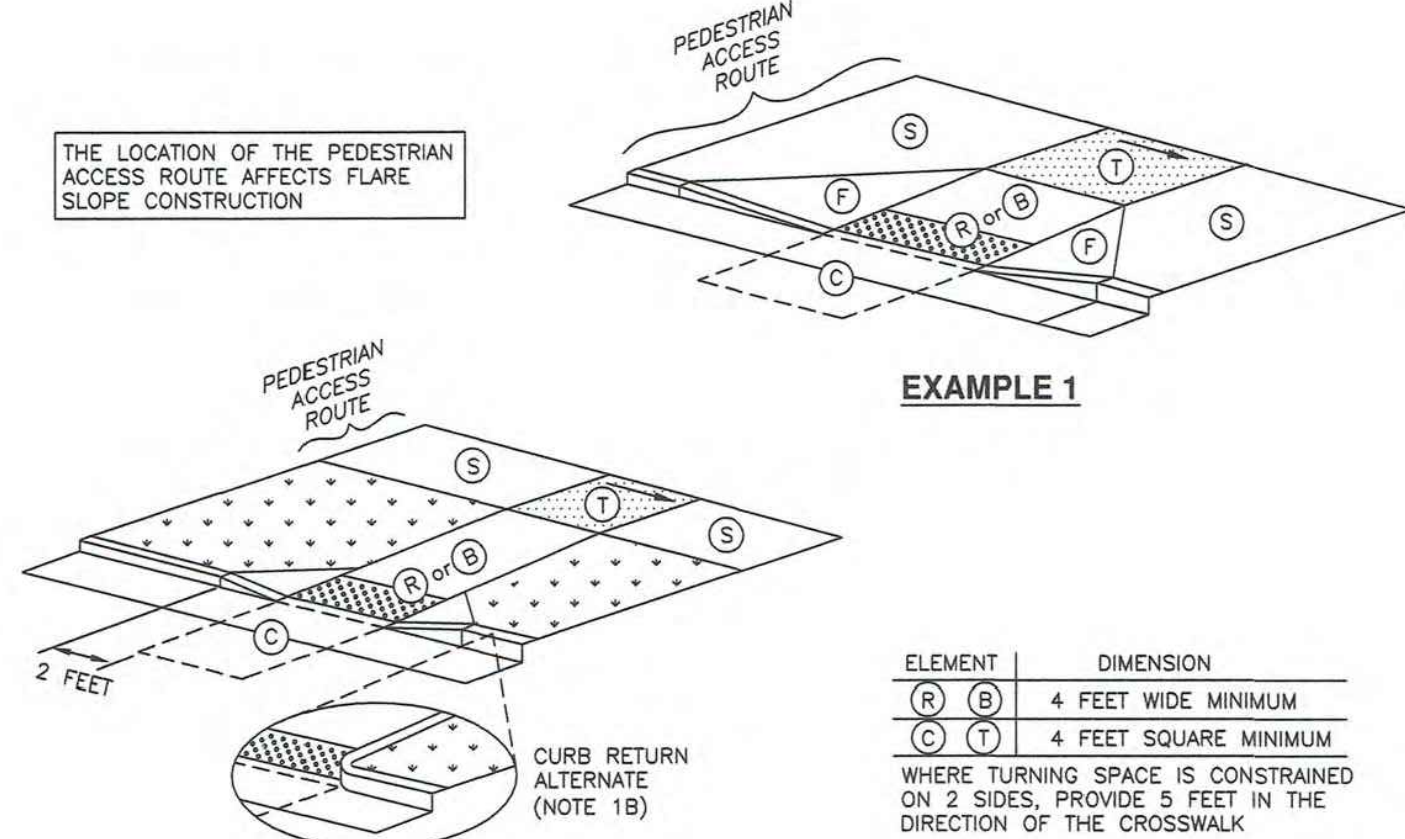


**SANTAQUIN WEST MEETING HOUSE**  
1544 SOUTH SAGEBERRY DRIVE  
SANTAQUIN, UTAH COUNTY, UTAH 84655

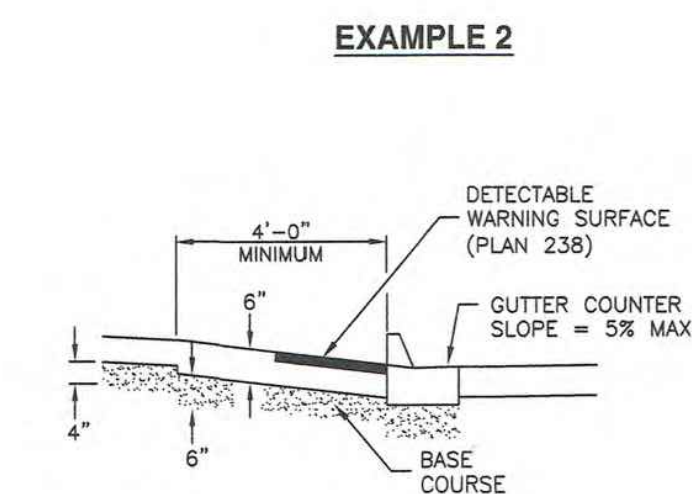
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**TURNING SPACE AT SIDEWALK LEVEL**



**EXAMPLE 1**



**EXAMPLE 2**

ELEMENT	DIMENSION
(R) (B)	4 FEET WIDE MINIMUM
(C) (T)	4 FEET SQUARE MINIMUM

WHERE TURNING SPACE IS CONSTRAINED ON 2 SIDES, PROVIDE 5 FEET IN THE DIRECTION OF THE CROSSWALK

**TABLE OF DIMENSIONS**

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

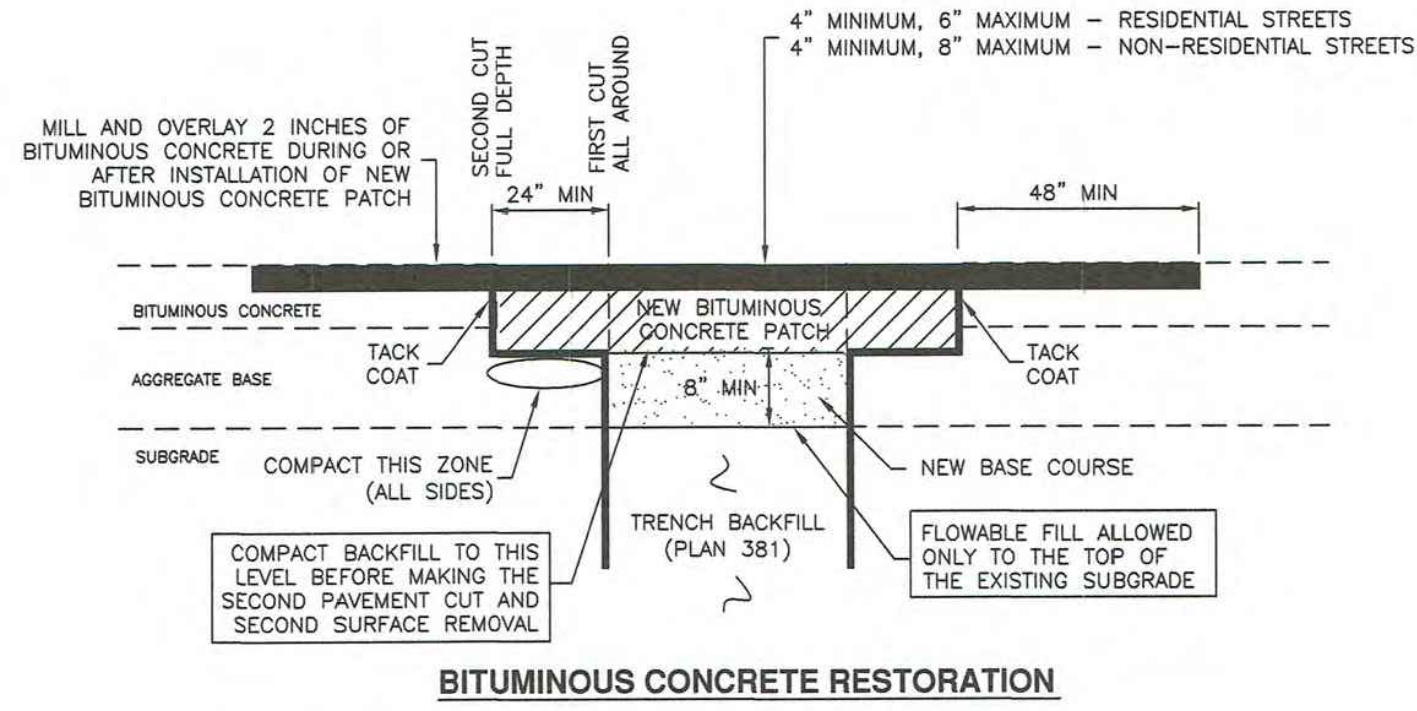
(a) RUNNING SLOPE IS IN THE DIRECTION OF PEDESTRIAN TRAVEL. RUNNING SLOPE OF FLARE IS PARALLEL TO BACK OF CURB  
 (b) CROSS SLOPE IS PERPENDICULAR TO DIRECTION OF PEDESTRIAN TRAVEL

**SLOPE TABLE**

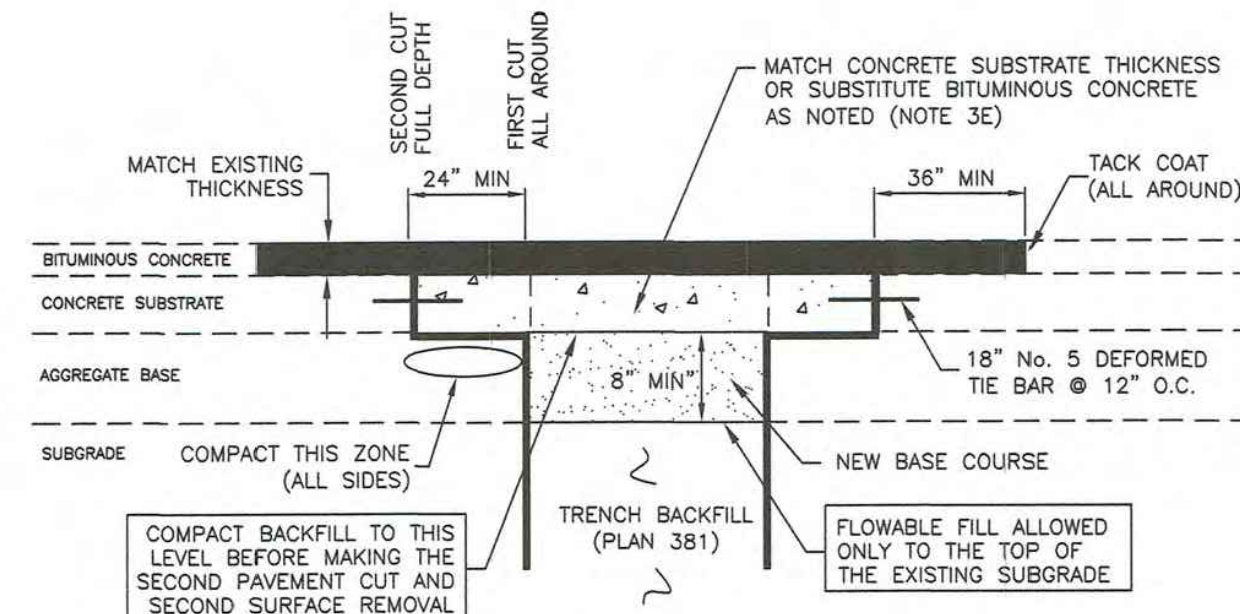


**Mid-block curb cut assembly**

Plan **236.1**  
September 2011



**BITUMINOUS CONCRETE RESTORATION**

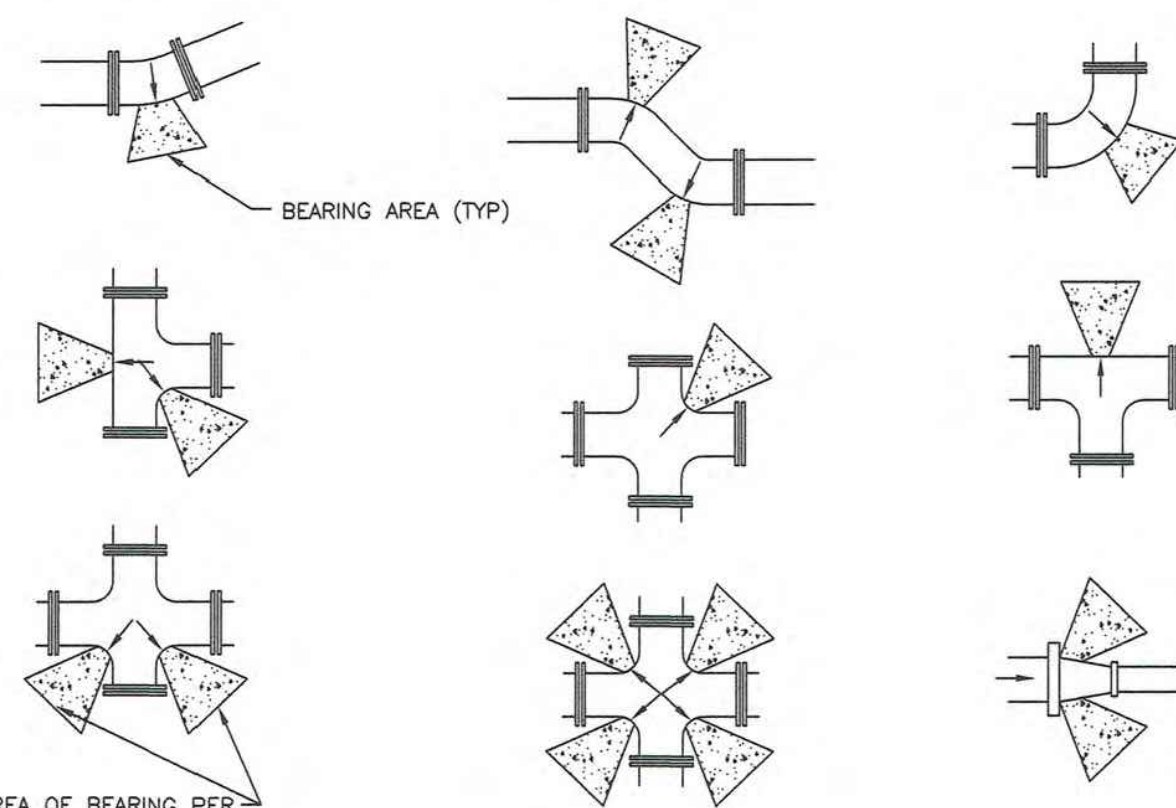


**COMPOSITE RESTORATION**



**Bituminous pavement T-patch**

Plan **255**  
November 2015



BEARING AREA (TYP)

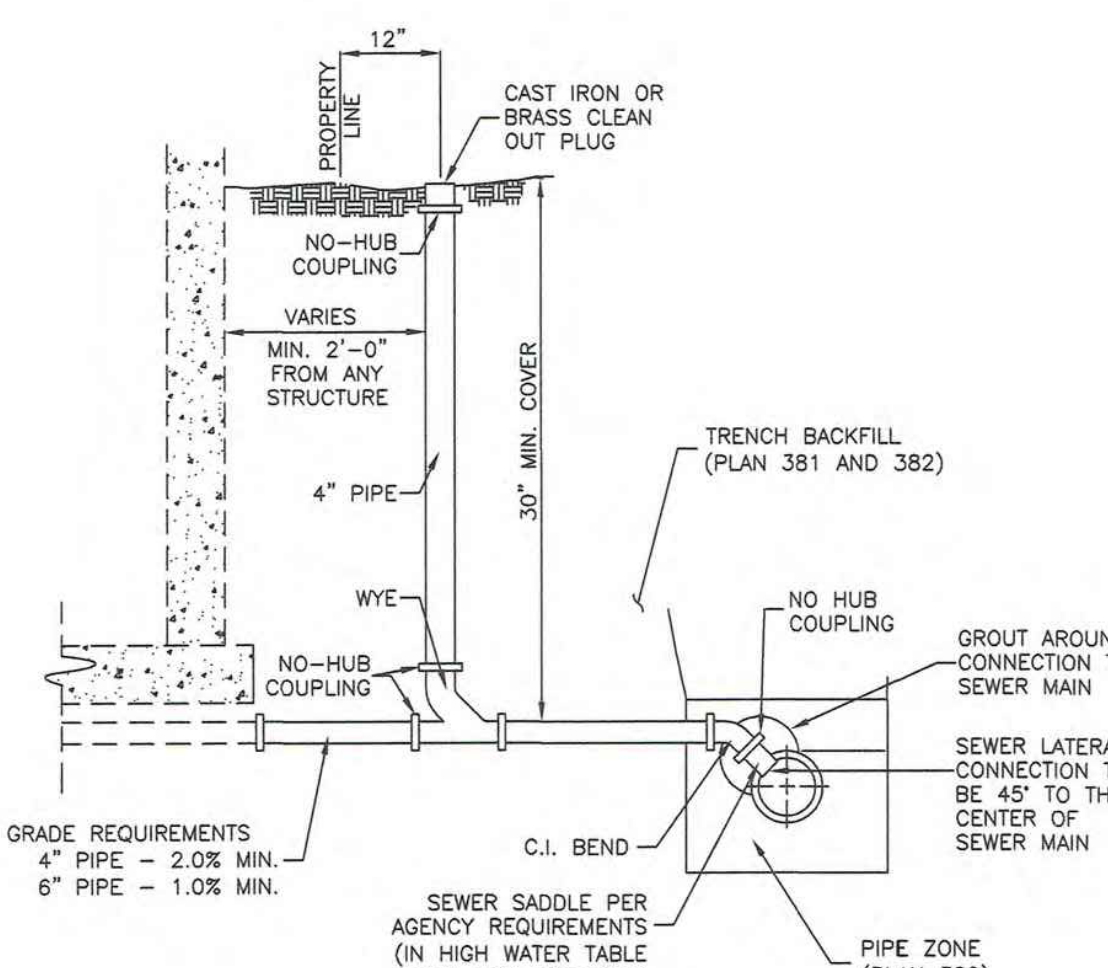
THE AREA OF BEARING PER THRUST BLOCK TO EQUAL 1/2 THE AREA SPECIFIED FOR THE LARGEST PIPE OR FITTING SIZE

SIZE OF PIPE	TEES, VALVES, DEAD ENDS	90° BENDS	45° BENDS	22 1/2° BENDS	11 1/4° BENDS
4"	2	3	2	2	2
6"	4	5.5	3	2.5	2
8"	6.5	9.5	5	2.75	2.5
12"	14	20	11	5.5	3
14"	19	26.5	14.5	7.5	4
16"	24	34	18.5	9.5	6
20"	27	52	28.5	14.5	9
24"	53	74	41	21	12
30"	81	114	62	32	18



**Direct bearing thrust block**

Plan **561**  
August 2010

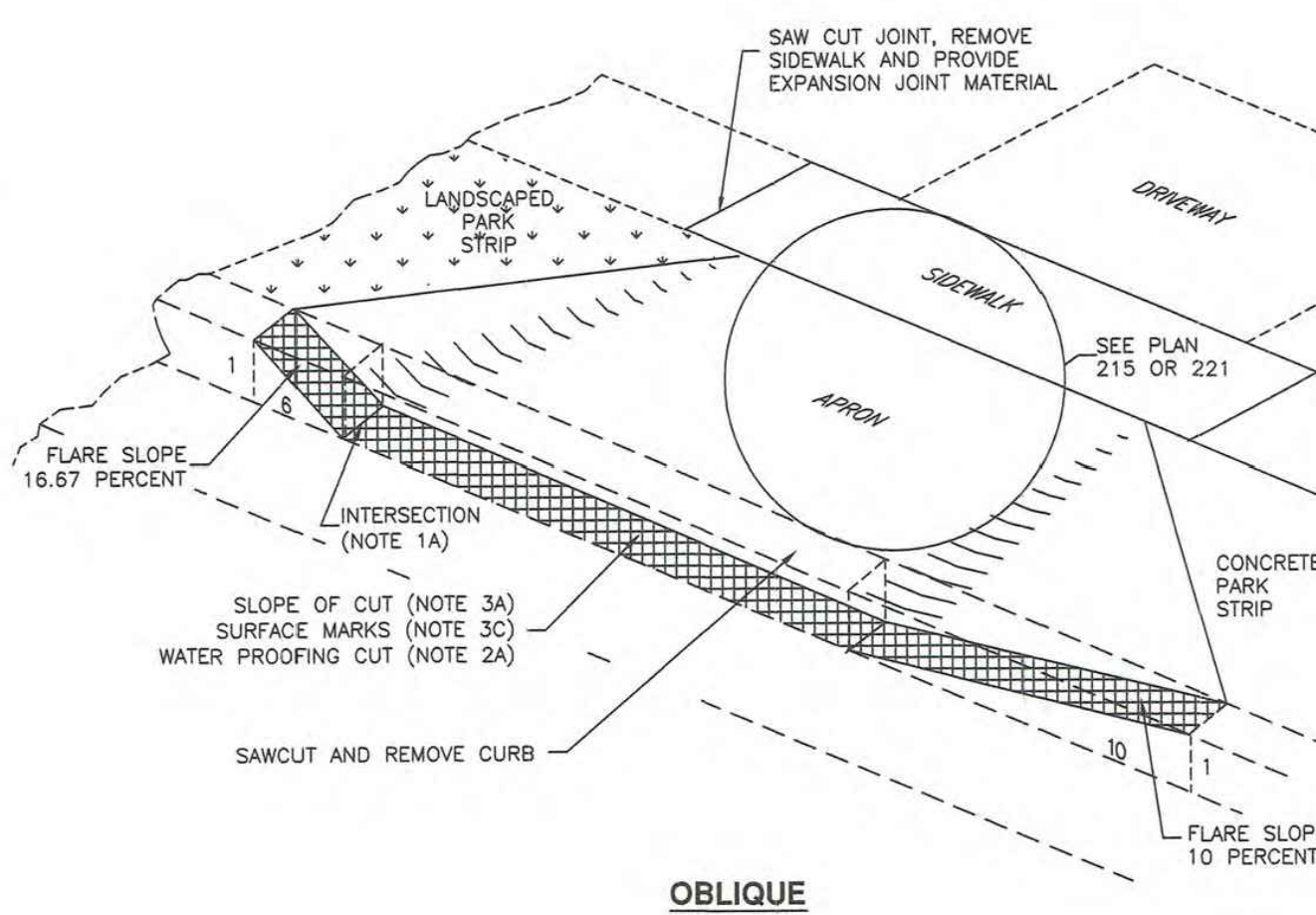


**Sewer lateral connection**



Plan **431**  
January 2011

NARRATIVE: THIS PLAN IS USED IF AN EXISTING CURB MUST BE CUT TO INSTALL A DRIVEWAY APPROACH. THE SLOPE OF THE CURB FLARE DEPENDS UPON WHETHER THE PARK STRIP IS LANDSCAPED OR IF THE PARK STRIP IS CONCRETE.



**OBLIQUE**

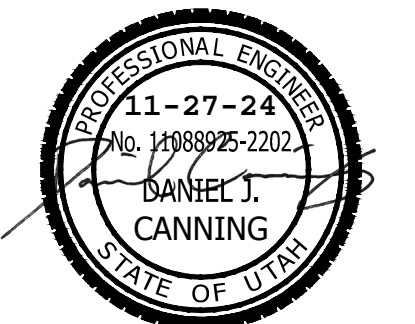


**Saw-cut driveway approach**

Plan **222**  
February 2011



684 W Center St  
Mojave UT 84047



**McNEIL ENGINEERING**  
Civil Engineering • Consulting & Landscape Architecture  
Structural Engineering • Land Surveying & HDS

**OWNER / DEVELOPER:** Church of Jesus Christ of Latter Day Saints  
**CONTACT INFO:** James Gonzalez (801) 240-5174, jg@jshneku@churchofjesuschrist.org, 526 North Temple St Salt Lake City UT 84150

**SANTAQUIN WEST MEETING HOUSE**

1544 SOUTH SAGEBERRY DRIVE  
SANTAQUIN, UTAH COUNTY, UTAH 84655

**JOB NUMBER:** 501-2698  
**OWNER:** Church of Jesus Christ of Latter Day Saints  
**DATE:** 09.13.2024

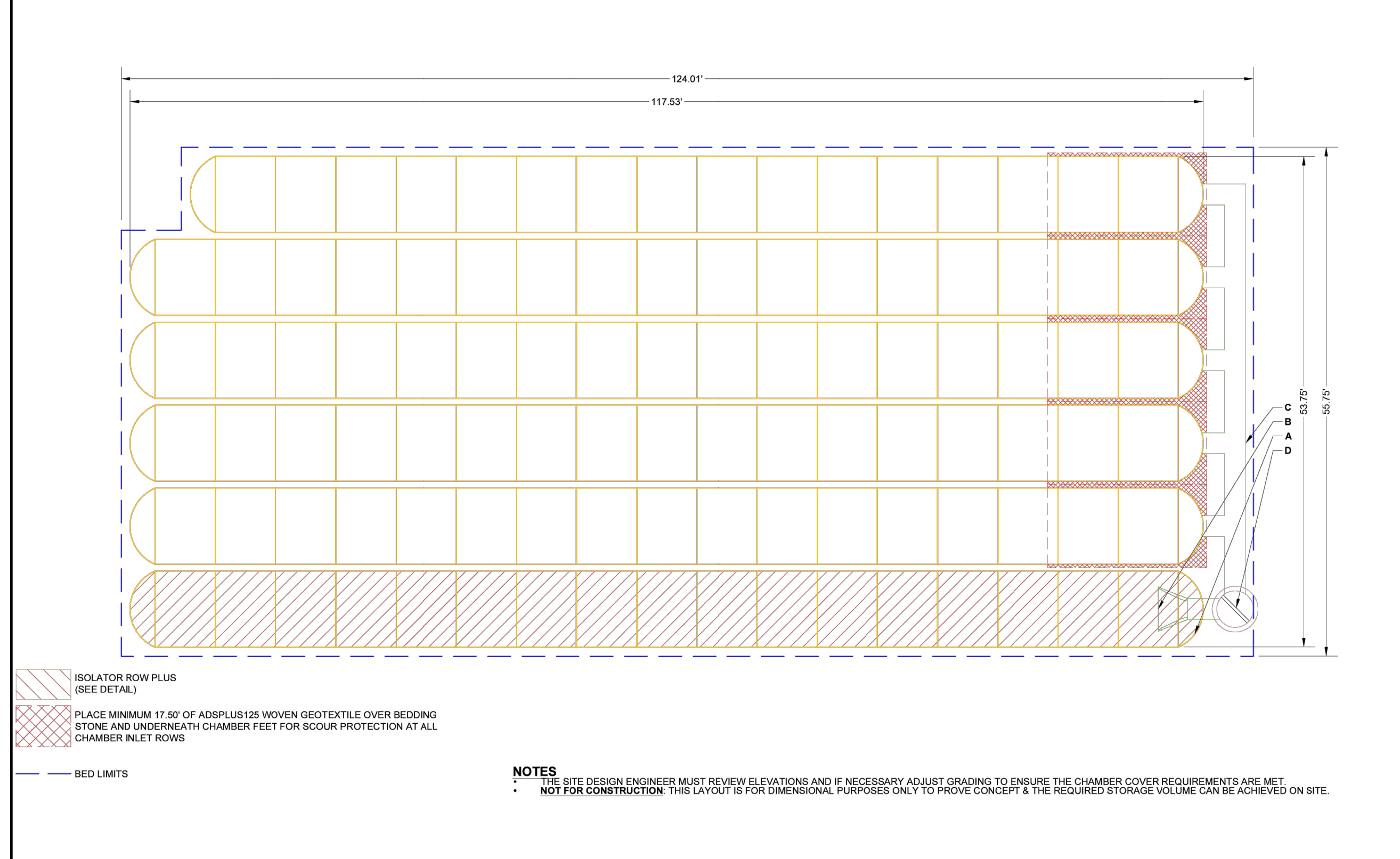
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CIVIL DETAILS

**C5.05**

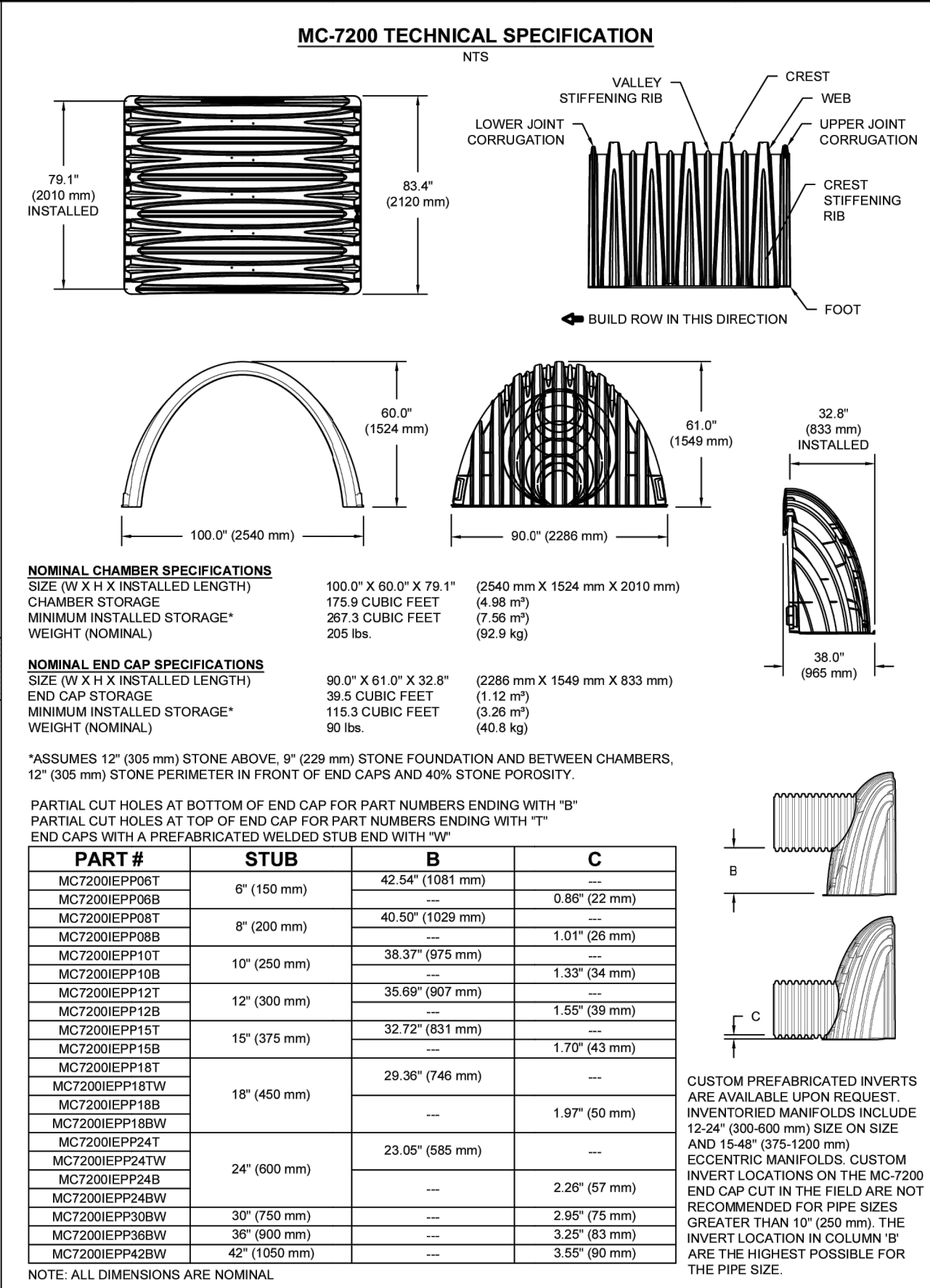


PROPOSED LAYOUT	CONCEPTUAL ELEVATIONS:	PART TYPE	ITEM ON LAYOUT	DESCRIPTION	INVERT	MAX FLOW
101 STORMTECH MC-7200 CHAMBERS	MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT/UNPAVED)		12.75			
12 STORMTECH MC-7200 END CAPS	MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC)		9.25			
12 STONE ABOVE (a)	MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC)		7.75			
9 STONE BELOW (a)	MINIMUM ALLOWABLE GRADE (TOP OF RIGID CONCRETE PAVEMENT)		7.75			
40 STONE VOID	MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT)		7.75			
20450 INSTALLED SYSTEM VOLUME (CF)	TOP OF STONE		5.75			
(PERIMETER STONE INCLUDED)	TOP OF MC-7200 CHAMBER		5.75			
(COVER STONE INCLUDED)	24" X 24" BOTTOM MANIFOLD INVERT		5.75			
6854 SYSTEM AREA (SF)	24" ISOLATOR ROW PLUS INVERT		0.94			
359.5 SYSTEM PERIMETER (ft)	BOTTOM OF MC-7200 CHAMBER		0.78			
	BOTTOM OF STONE		0.00			41.5 CFS IN



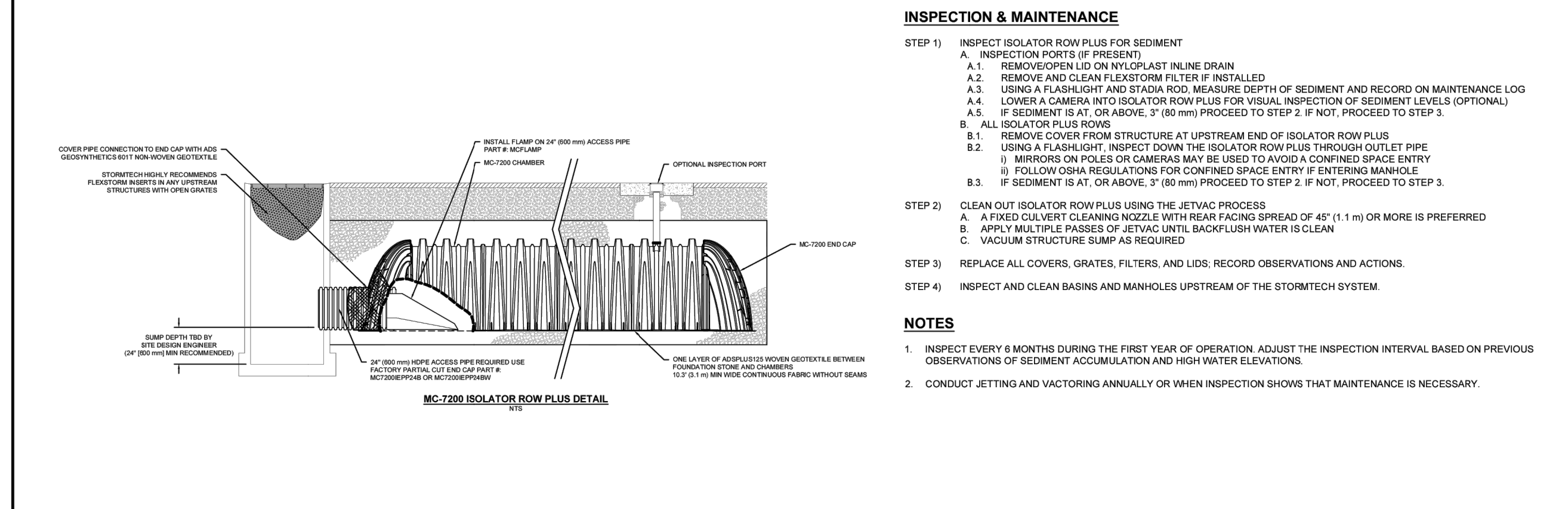
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PART #	STUB	B	C
MC7200EP08T	6" (150 mm)	42.54" (1081 mm)	0.66" (22 mm)
MC7200EP09B	8" (200 mm)	40.50" (1029 mm)	---
MC7200EP09B	8" (200 mm)	38.37" (975 mm)	1.01" (26 mm)
MC7200EP10T	10" (250 mm)	---	1.33" (34 mm)
MC7200EP12T	12" (300 mm)	35.69" (907 mm)	1.58" (39 mm)
MC7200EP12B	12" (300 mm)	32.72" (831 mm)	---
MC7200EP15B	15" (375 mm)	---	1.70" (43 mm)
MC7200EP18T	18" (450 mm)	29.36" (746 mm)	---
MC7200EP18B	18" (450 mm)	---	1.97" (50 mm)
MC7200EP24T	24" (600 mm)	23.05" (585 mm)	---
MC7200EP24B	24" (600 mm)	---	2.26" (57 mm)
MC7200EP28B	30" (750 mm)	---	2.85" (75 mm)
MC7200EP32B	36" (900 mm)	---	3.25" (83 mm)
MC7200EP42B	42" (1050 mm)	---	3.55" (90 mm)

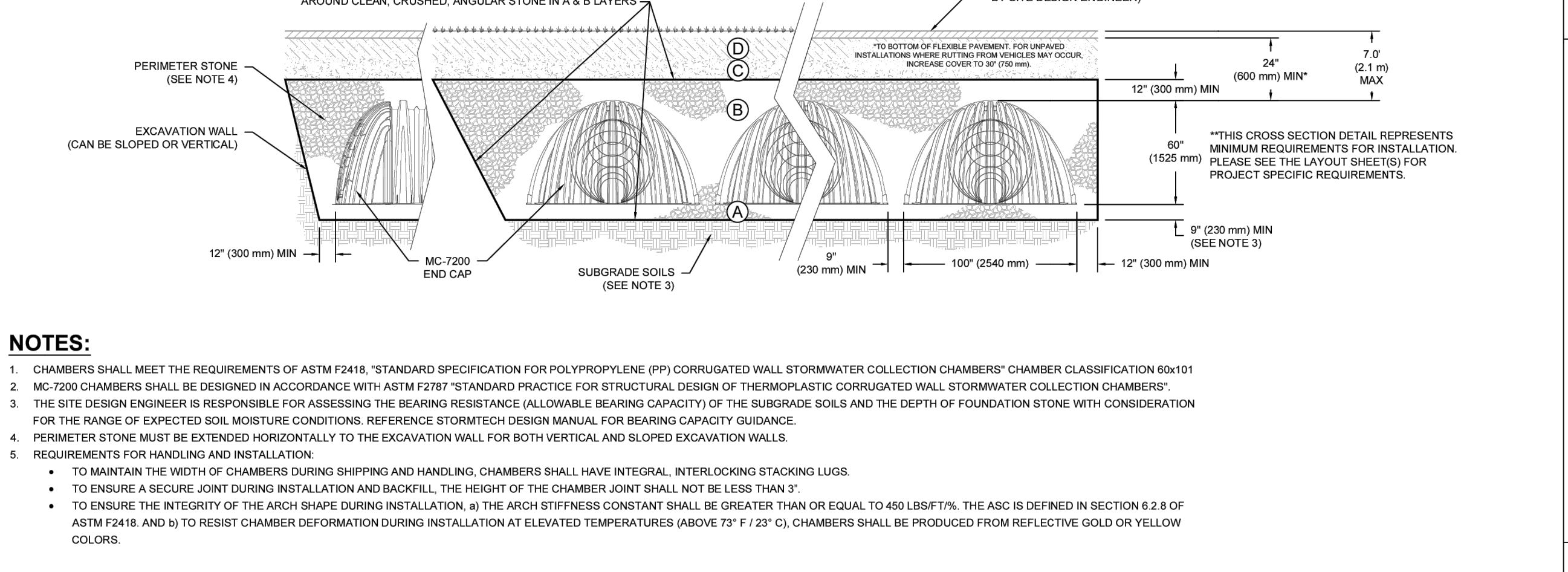
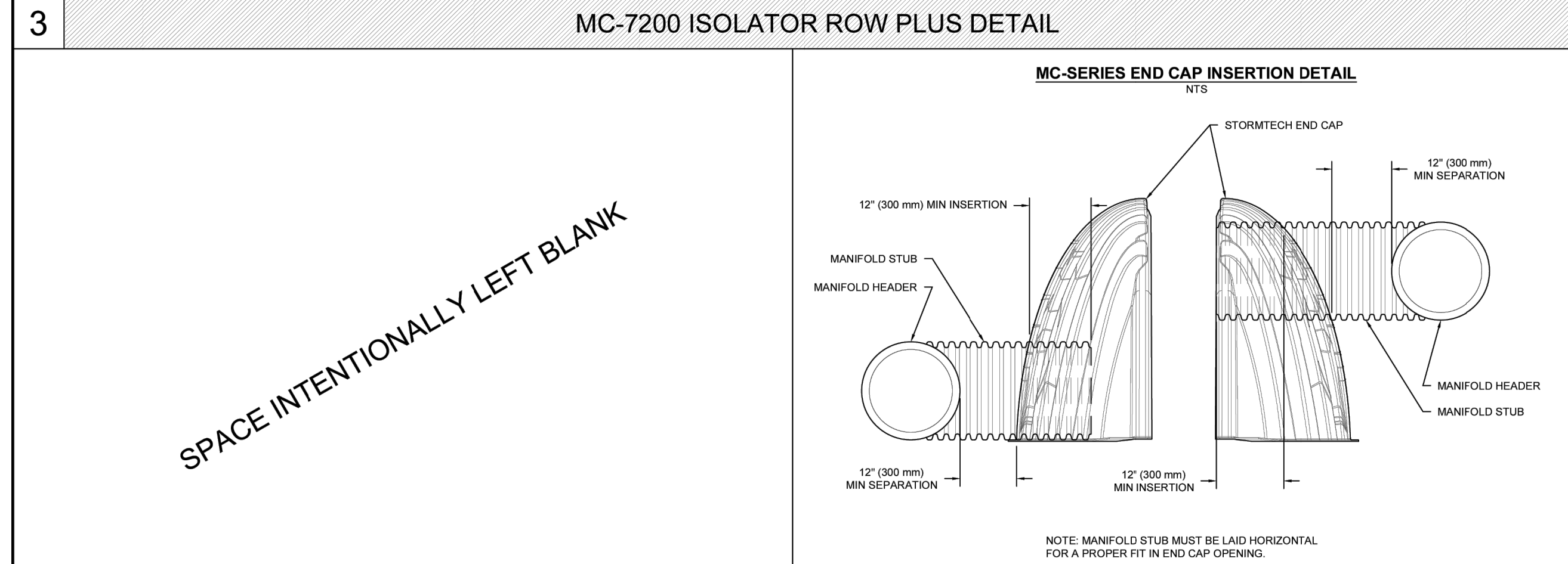
DATE: 11/27/2024  
PROJECT #:  
DRAWN: DC  
CHECKED: N/A  
REV: NOT TO SCALE  
SANTAQUIN CHURCH  
SANTAQUIN, UT, USA



**ACCEPTABLE FILL MATERIALS: STORMTECH MC-7200 CHAMBER SYSTEMS**

MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT	
D	FINAL FILL: FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER.	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEERS PLANS CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	
C	INITIAL FILL: FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE (B LAYER) TO 24" (600 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, 95% FINES OR PROCESSED AGGREGATE. MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	AASHTO M48 <sup>1</sup> A-1, A-2.4, A-3 OR AASHTO M43 <sup>1</sup> 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	PREPARE PER SITE DESIGN ENGINEER'S PLANS, PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS. BEGIN COMPACTIONS AFTER 24" (600 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 12" (300 mm) MAX LIFTS TO A MIN. 90% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS.
B	EMBEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE (A LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETE <sup>2</sup>	AASHTO M43 <sup>1</sup> 3, 357, 4, 467, 5, 56, 57	NO COMPACTION REQUIRED.
A	FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETE <sup>2</sup>	AASHTO M43 <sup>1</sup> 3, 357, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. <sup>2,3</sup>

PLEASE NOTE:  
1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".  
2. STORMTECH COMPACTOR REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 9" (230 mm) (MAX) LIFTS USING TWO FULL COVERS WITH A VIBRATORY COMPACTOR.  
3. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.  
4. ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEERS DISCRETION.  
5. WHERE RECYCLED CONCRETE AGGREGATE IS USED IN LAYERS 'A' OR 'B' THE MATERIAL SHOULD ALSO MEET THE ACCEPTABILITY CRITERIA OUTLINED IN TECHNICAL NOTE 6.20 'RECYCLED CONCRETE STRUCTURAL BACKFILL'.



**NOTES:**  
1. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS" CHAMBER CLASSIFICATION 60x101  
2. MC-7200 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".  
3. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS. REFERENCE STORMTECH DESIGN MANUAL FOR BEARING CAPACITY GUIDANCE.  
4. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.  
5. REQUIREMENTS FOR HANDLING AND INSTALLATION:  
• TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.  
• TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 3".  
• TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, THE ARCH STIFFNESS CONSTANT SHALL BE GREATER THAN OR EQUAL TO 450 LBS/FT<sup>2</sup>. THE ASC IS DEFINED IN SECTION 6.2.8 OF ASTM F2418. AND (b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.

StormTech Chamber System  
4640 TRUEMAN BLVD  
HILLIARD, OH 43026  
1-800-733-7473  
SHEET 1 OF 1

SANTAQUIN WEST MEETING HOUSE  
1544 SOUTH SAGEBERRY DRIVE  
SANTAQUIN, UTAH COUNTY, UTAH 84655

JOB NUMBER: 501-2698  
OWNER: Church of Jesus Christ of Latter Day Saints  
DATE: 09.13.2024  
REV DATE DESCRIPTION  
CIVIL DETAILS  
C5.06



## SANTAQUIN CITY DATA

CH. 10.52 - LANDSCAPING STANDARDS

ZONED AS	PC - PLANNED COMMUNITY	
TOTAL ON-SITE AREA	320,797 S.F.	
	REQUIRED	PROVIDED
<b>GENERAL:</b>		
OPEN SPACE	MIN. 20%	168,931 S.F. = 53%
LANDSCAPE AREA	MIN. 10%	66,679 S.F. = 21%
PLANT COVERAGE IN LANDSCAPE AREAS	MIN. 50%	52%
LAWN AREA	MAX 35%	11,248 S.F. = 17%
<b>PARKSTRIP:</b>		
REQUIRED STREET TREES - 1 PER 30 L.F. SAGEBERRY DR.	662' / 30 = 21	21
<b>PARKING LOT LANDSCAPE:</b>		
LANDSCAPE AREA	MIN. 10%	12,031 S.F. = 10%
SHADE TREES IN LANDSCAPE ISLANDS		YES
<b>BUILDING LANDSCAPING:</b>		
FOUNDATION PLANTING BED - 6' WIDE	ALONG 50% OF BLDG.	YES
PLANTING GROUP OF 1 TREE & 4 SHRUBS - 1 GROUP PER 50' OF BLDG. WHERE BUILDING EXCEEDS 100' IN LENGTH		YES
<b>YARDS:</b>		
FRONT - TO PARKING	15'	YES
FRONT - TO BUILDING	30'	YES
TREES - 1 PER 40 L.F.	704' / 40 = 18	18
CORNER SIDE YARD		
TO PARKING	10'	YES
TREES - 1 PER 40 L.F.	267' / 40 = 7	10
SHRUBS - 4 PER 40 L.F.	267' / 40 x 4 = 27	>27
SIDE YARD		
TO PARKING	10' WIDE	YES
TREES - 1 PER 40 L.F.	536' / 40 = 14	21
SHRUBS - 4 PER 40 L.F.	536' / 40 x 4 = 54	>54
REAR		
TO PARKING	10' WIDE	YES
TREES - 1 PER 40 L.F.	471' / 40 = 12	13
SHRUBS - 4 PER 40 L.F.	471' / 40 x 4 = 47	>47

## DESIGN CRITERIA

ECO-REGION	10.1 - NORTHERN COLD DESERT
CLIMATE ZONE	6A-7A
ZONING ORDINANCE	SANTAQUIN CITY
WATER AVAILABILITY	70 P.S.I.
SOIL TYPE	COBBLY LOAM
SLOPES	MODERATE
WIND	
SETBACKS/EASEMENTS	BUILDING SETBACK - 40'
MICROCLIMATES	
SOIL PH	7.2
LAWN AREA PERCENTAGE	35% MAX.
UNDEVELOPED PROPERTY	YES
IRRIGATION SYSTEM	YES

## LANDSCAPE DATA

TOTAL SITE AREA	320,797 S.F.	% OF SITE/LANDSCAPE	% / # REQUIRED BY LOCAL JURISDICTION
TOTAL LANDSCAPE AREA	109,666 S.F.	34%	MIN. 10%
SHRUBS/GROUND COVER	30,671 S.F.	52%	50%
LAWN AREA	11,691 S.F.	11%	35% MAX.
TREES ON SITE	134		N/A

## PLANT COVERAGE

	SHRUBS - MATURE COVERAGE	ACTUAL %	TREE PURPOSE	ACTUAL %	% REQUIRED BY LOCAL JURISDICTION
STREET FRONTAGE	25% - 50%	28%	FRAME BUILDING	4	
PRIMARY ENTRIES	30% - 55%	50%	FRAME ENTRY	11	
BUILDING PERIMETER	25% - 45%	45%	ACCENT BUILDING	7	
PERIMETER	5% - 15%	30%	SCREEN LOT	60	



**SANTAQUIN STAKE CENTER**  
 1544 SOUTH SAGEBERRY DRIVE  
 SANTAQUIN, UTAH

Project For:

**THE CHURCH OF  
 JESUS CHRIST  
 OF LATTER-DAY SAINTS**

Property Number:  
 501-2698

**JOB NUMBER:** 24604  
**OWNER:** LDS CHURCH  
**DATE:** SEPTEMBER 2024

REV	DATE	DESCRIPTION
1	11/27/24	CITY REVIEW COMMENTS

## DRAWING INDEX

SHEET	DESCRIPTION
L110	LANDSCAPE TABLES
L111	LANDSCAPE PLANTING PLAN
L112	LANDSCAPE PLANTING PLAN
L113	LANDSCAPE PLANTING PLAN
L121	LANDSCAPE IRRIGATION PLAN
L122	LANDSCAPE IRRIGATION PLAN
L123	LANDSCAPE IRRIGATION PLAN
L501	LANDSCAPE DETAILS
L502	LANDSCAPE IRRIGATION DETAILS
L503	LANDSCAPE IRRIGATION DETAILS
L504	LANDSCAPE IRRIGATION DETAILS

**LANDSCAPE  
 TABLES**

**L110**



LANDSCAPE SCHEDULE



**SANTAQUIN STAKE CENTER**  
1544 SOUTH SAGEBERRY DRIVE  
SANTAQUIN, UTAH

Project For:

**THE CHURCH OF  
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1 11/27/24 CITY REVIEW  
COMMENTS

**LANDSCAPE  
PLANTING PLAN**

**L111**

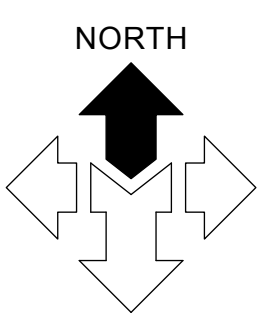


SYMBOL	QTY.	COMMON NAME	BOTANICAL NAME	SIZE	DETAIL
<b>DECIDUOUS TREES</b>					
	13	BIGTOOTH MAPLE	ACER GRANDIDENTATUM	2" CAL.	D/L501
	7	AUTUMN BRILLIANCE SERVICEBERRY	AMELANCHIER X GRANDIFLORA 'AUTUMN BRILLIANCE'	---	D/L501
	13	AMERICAN HORNBEAM	CARPINUS CAROLINIANA	2" CAL.	D/L501
	3	WINTER KING GREEN HAWTHORN	CRATAEGUS VIRIDIS 'WINTER KING'	2" CAL.	D/L501
	3	SKINNY GENES® OAK	QUERCUS X BIMUNDORUM 'JFS-KW2QX'	2" CAL.	D/L501
	21	GREENSPIRE LITTLELEAF LINDEN	TILIA CORDATA 'GREENSPIRE'	2" CAL.	D/L501
	6	GREEN VASE ZELKOVA	ZELKOVA SERRATA 'GREEN VASE'	2" CAL.	D/L501
<b>EVERGREEN TREES</b>					
	5	HORSTMANN BLUE ATLAS CEDAR	CEDRUS ATLANTICA 'HORSTMANN'	6' HT.	E/L501
	34	MOONGLOW JUNIPER	JUNIPERUS SCOPULORUM 'MOONGLOW'	---	E/L501
	8	BONNY BLUE COLORADO BLUE SPRUCE	PICEA PUNGENS GLAUCA 'BONNY BLUE'	8' HT.	E/L501
	20	PINYON PINE	PINUS EDULIS	6' HT.	E/L501
<b>SHRUBS</b>					
	180	BIG SAGEBRUSH	ARTEMISIA TRIDENTATA	5 GAL.	B/L501
	41	CURL-LEAF MOUNTAIN MAHOGANY	CERCOCARPUS LEDIFOLIUS	5 GAL.	B/L501
	187	DWARF RUBBER RABBITBRUSH	ERICAMERIA NAUSEOSA NAUSEOSUS	5 GAL.	B/L501
	6	ALPINE CARPET JUNIPER	JUNIPERUS COMMUNIS 'MONDAP'	3 GAL.	B/L501
	80	BUFFALO JUNIPER	JUNIPERUS SABINA 'BUFFALO'	3 GAL.	B/L501
	133	STEPSUNS SUNSET GLOW PENSTEMON	PENSTEMON PINIFOLIUS 'P019S'	1 GAL.	B/L501
	96	PAWNEE BUTTES WESTERN SAND CHERRY	PRUNUS BESSEYI 'PAWNEE BUTTES'	5 GAL.	B/L501
	66	OAKBRUSH SUMAC	RHUS TRILOBATA	5 GAL.	B/L501
	6	TIGER EYES SUMAC	RHUS TYPHINA 'BAILTIGER'	5 GAL.	B/L501
<b>ORNAMENTAL GRASSES</b>					
	157	BLONDE AMBITION BLUE GRAMA GRASS	BOUTELOUA GRACILIS 'BLONDE AMBITION'	1 GAL.	A/L501
	463	ATLAS FESCUE	FESTUCA MAIREI	1 GAL.	A/L501
	199	BLUE OAT GRASS	HELICTOTRICHON SEMPERVIRENS	1 GAL.	A/L501
	300	SHOIX BLUE INDIAN GRASS	SORGHASTRUM NUTANS 'SHOIX BLUE'	1 GAL.	A/L501
<b>SYMBOL</b>					
	11,248 S.F.	TWCA CERTIFIED LAWN SOD			H/L501
<b>BOULDERS</b>					
	147	"BROWNS CANYON" BOULDERS	BURY 1/3 THE DEPTH OF THE BOULDER INTO FINISH GRADE. DO NOT USE BOULDERS THAT ARE LESS THAN 24" DIAMETER. BOULDER SHALL BE WASHED AND FREE OF DIRT AND OTHER FOREIGN DEBRIS.	2'-4" DIAMETER IN ALL DIRECTIONS	BOULDERS FROM BROWN'S CANYON QUARRY. CONTACT ONE SOURCE MATERIALS. ONESOURCEMATERIALS.COM, (385) 447-9374. G/L501
<b>CRUSHED ROCK</b>					
	43,338 S.F.	"BROWNS CANYON" CRUSHED ROCK	INSTALLED A MINIMUM 3" DEEP. INSTALL OVER DEWITTS 4-1 WEED BARRIER FABRIC. CRUSHED ROCK SHALL BE FREE OF DIRT & OTHER FOREIGN DEBRIS.	3/4" DIAMETER	CRUSHED ROCK FROM BROWN'S CANYON QUARRY. CONTACT ONE SOURCE MATERIALS. ONESOURCEMATERIALS.COM, (385) 447-9374. F/L501
<b>MULCH</b>					
	7,938 S.F.	"SUPREME SHREDDED BARK"	INSTALLED A MINIMUM 3" DEEP. INSTALL OVER DEWITTS 4-1 WEED BARRIER FABRIC. BARK MULCH SHALL BE FREE OF DIRT, ROCK AND OTHER FOREIGN DEBRIS.		MILLER COMPANIES (435) 245-3157 OR APPROVED EQUAL. F/L501

**NATIVE HYDRO-SEED MIX - GRASSES & SHRUBS**

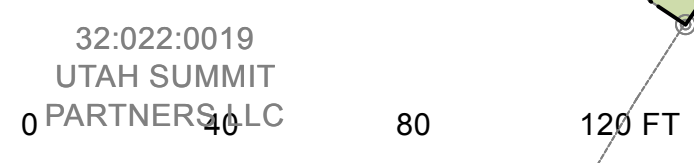
SYMBOL	QTY.	TYPE	COMMON NAMES	BOTANICAL NAMES	PLS/1,000 S.F.
	16,326 S.F.	GRASS	SLENDER WHEATGRASS	ELYMUS TRACHYCAULUS SSP. TRACHYCAULUS	22.70
		GRASS	BLUE WILDRYE	ELYMUS GLAUCUS	
		GRASS	SHEEP FESCUE	FESTUCA OVINA	
		GRASS	BIG BLUEGRASS	POA SECUNDA SSP. AMPLA	
		GRASS	BLUEBUNCH WHEATGRASS	PSEUDOROEGNERIA SPICATA SSP. SPICATA	
	16,326 S.F.	SHRUB	BASIN BIG SAGEBRUSH	ARTEMISIA TRIDENTATA SSP. TRIDENTATA	22.70
		SHRUB	MOUNTAIN BROME	BROMUS MARGINATUS	
		SHRUB	DOUGLAS RABBIT BRUSH	CHRYSOTHAMNUS VISCIDIFLORUS	
		SHRUB	BITTER BRUSH	PURSHIA TRIDENTATA	
		SHRUB	GREEN MORMON TEA	EPHEDRA VIRIDIS	

ALWAYS PLANT ACCORDING TO CENTER POINT OF THE SYMBOL



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JOB NUMBER: 501-2698  
OWNER: LDS CHURCH  
DATE: SEPTEMBER 2024

REV	DATE	DESCRIPTION
1	11/27/24	CITY REVIEW COMMENTS

POINT OF BEGINNING

MOUNTAIN VIEW DRIVE

68:136:0001  
SALISBURY LAND  
DEVELOPMENT LLC  
319,250 SQ. FT.  
OR 7.328 ACRES

1544 SOUTH

PROPOSED BUILDING HER  
23-2-SC

300 TOTAL  
PARKING  
STALLS

**REFERENCE NOTES**

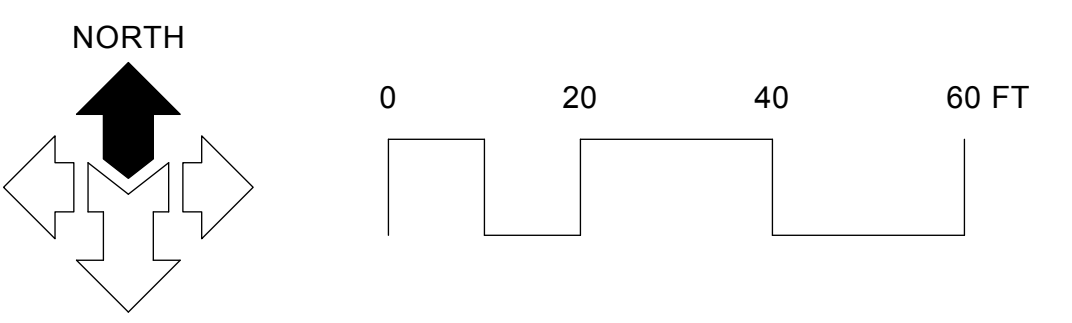
L-1. CONCRETE MOWSTRIP  
DETAIL IL501

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SANTAQUIN STAKE CENTER

1544 SOUTH SAGEBERRY DRIVE  
SANTAQUIN, UTAH

JOB NUMBER: 501-2698  
OWNER: LDS CHURCH  
DATE: SEPTEMBER 2024

REV	DATE	DESCRIPTION
1	11/27/24	CITY REVIEW COMMENTS

LANDSCAPE PLAN - SOUTH

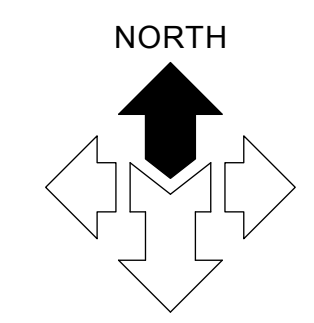
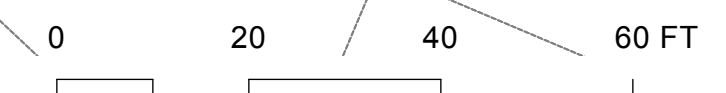
**L113**



32:022:0019  
UTAH SUMMIT  
PARTNERS LLC

**REFERENCE NOTES**

- L-1. CONCRETE MOWSTRIP  
DETAIL I/L501
- L-2. 24" CONCRETE APRON AROUND PAVILION PAD.



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**IRRIGATION SCHEDULE**

SYMBOL	TYPE	MANUFACTURER	MODEL	DETAIL
<b>OUTLETS</b>				
⊕	MPR Fixed Nozzles	RAIN BIRD	1800 (r) Series	---
■	5004-PCR	RAIN BIRD	25Q+	A/L502
■	5004-PCR	RAIN BIRD	25TQ	A/L502
■	5004-PCR	RAIN BIRD	30F	F/L5.02
■	5004-PCR	RAIN BIRD	35F	F/L5.02
■	5004-PCR	RAIN BIRD	30TQ	F/L5.02
■	5004-PCR	RAIN BIRD	30Q+	F/L5.02
■	5004-PCR	RAIN BIRD	35TQ	F/L5.02
■	5004-PCR	RAIN BIRD	35Q+	F/L5.02
■	5004-PCR	RAIN BIRD	25Q	A/L502
■	5004-PCR	RAIN BIRD	25H	A/L502
■	5004-PCR	RAIN BIRD	25F	A/L502
■	5004-PCR	RAIN BIRD	35H	F/L5.02
■	5004-PCR	RAIN BIRD	30H	F/L5.02
■	5004-PCR	RAIN BIRD	30Q	F/L5.02
■	5004-PCR	RAIN BIRD	35Q	F/L5.02
<b>DRIP AREAS</b>				
⊕	TREE DRIP RING W/ ROWS SPACED @ 24" APART	NETAFIM	TLCV9-12	IL502
<b>SYMBOL VALVES</b>				
⊕	LAWN CIRCUIT CONTROL VALVE	RAIN BIRD	150-PESB	HL502
⊕	DRIP CIRCUIT CONTROL VALVE	RAIN BIRD	XCZ-100-PRB-COM DRIP ZONE KIT WITH 100-PEB CONTROL VALVE AND BASKET FILTER WITH BUILT-IN PRV	CL502
<b>OTHER EQUIPMENT</b>				
⊕	SMART CONTROLLER	HYDROPOINT	WEATHERTRAK ET PRO3	CL504
⊕	POINT OF CONNECTION ONTO SECONDARY WATER METER			A/L503
⊕	CONCRETE PAD FOR FILTER ASSEMBLY			CL503
<b>SYMBOL PIPE</b>				
---	1" DRIP SUPPLY LINE, 1/2" FUNNY PIPE AND EMITTERS NOT SHOWN ON PLAN FOR GRAPHIC CLARITY.		SCHEDULE 40 PVC PIPE WITH SCHEDULE 40 PVC FITTINGS.	CL502
---	1-1/2" MAIN LINE		SCHEDULE 40 PVC PIPE WITH SCHEDULE 80 PVC FITTINGS.	CL502
---	3/4" - 1-1/2" LATERAL LINE		SCHEDULE 40 PVC PIPE WITH SCHEDULE 40 PVC FITTINGS.	CL502
---	PIPE SLEEVE UNDER NEW PAVING		SCHEDULE 40 PVC	DL502
---	PIPE SLEEVE UNDER EXISTING PAVING		SCHEDULE 40 PVC	DL502
⊕	VALVE NUMBER			
gpm	VALVE FLOW			

**EMITTER SCHEDULE**

PLANT NAME	DRIP EMISSION DEVICE	MANUFACTURER	MODEL	DETAIL
AMERICAN HORNBEAM	IN-LINE DRIP EMITTERS	NETAFIM	TLCV9-12	IL502
AUTUMN BRILLIANCE SERVICEBERRY	IN-LINE DRIP EMITTERS	NETAFIM	TLCV9-12	IL502
BIGTOOTH MAPLE	IN-LINE DRIP EMITTERS	NETAFIM	TLCV9-12	IL502
BONNY BLUE COLORADO BLUE SPRUCE	IN-LINE DRIP EMITTERS	NETAFIM	TLCV9-12	IL502
GREEN VASE ZELKOVA	IN-LINE DRIP EMITTERS	NETAFIM	TLCV9-12	IL502
GREENSPIRE LITTLELEAF LINDEN	IN-LINE DRIP EMITTERS	NETAFIM	TLCV9-12	IL502
HORSTMANN BLUE ATLAS CEDAR	(4) 7-GPH EMITTERS	RAIN BIRD IRRIGATION	PC707 "VIOLET"	BL504
MOONGLOW JUNIPER	(4) 7-GPH EMITTERS	RAIN BIRD IRRIGATION	PC707 "VIOLET"	BL504
PINYON PINE	IN-LINE DRIP EMITTERS	NETAFIM	TLCV9-12	IL502
SKINNY GENES® OAK	IN-LINE DRIP EMITTERS	NETAFIM	TLCV9-12	IL502
ALPINE CARPET JUNIPER	(1) 2-GPH Emmitter	RAIN BIRD IRRIGATION	XB720 "RED"	A/L504
ATLAS FESCUE	(1) 1-GPH Emmitter	RAIN BIRD IRRIGATION	XB710 "BLACK"	A/L504
BIG SAGEBRUSH	(1) 1-GPH Emmitter	RAIN BIRD IRRIGATION	XB710 "BLACK"	A/L504
BLONDE AMBITION BLUE GRAMA GRASS	(1) 1-GPH Emmitter	RAIN BIRD IRRIGATION	XB710 "BLACK"	A/L504
BLUE OAT GRASS	(1) 1-GPH Emmitter	RAIN BIRD IRRIGATION	XB710 "BLACK"	A/L504
BUFFALO JUNIPER	(1) 2-GPH Emmitter	RAIN BIRD IRRIGATION	XB720 "RED"	A/L504
CURL-LEAF MOUNTAIN MAHOGANY	(1) 7-GPH Emmitter	RAIN BIRD IRRIGATION	PC707 "VIOLET"	A/L504
DWARF RUBBER RABBITBRUSH	(1) 1-GPH Emmitter	RAIN BIRD IRRIGATION	XB710 "BLACK"	A/L504
OAKBRUSH SUMAC	(1) 7-GPH Emmitter	RAIN BIRD IRRIGATION	PC707 "VIOLET"	A/L504
PAWNEE BUTTES WESTERN SAND CHERRY	(1) 2-GPH Emmitter	RAIN BIRD IRRIGATION	XB720 "RED"	A/L504
SIOUX BLUE INDIAN GRASS	(1) 1-GPH Emmitter	RAIN BIRD IRRIGATION	XB710 "BLACK"	A/L504
STEPSUNS SUNSET GLOW PENSTEMON	(1) 1-GPH Emmitter	RAIN BIRD IRRIGATION	XB710 "BLACK"	A/L504
TIGER EYES SUMAC	(1) 7-GPH Emmitter	RAIN BIRD IRRIGATION	PC707 "VIOLET"	A/L504



**SANTAQUIN STAKE CENTER**  
1544 SOUTH SAGEBERRY DRIVE  
SANTAQUIN, UTAH

Project For:

**THE CHURCH OF  
JESUS CHRIST  
OF LATTER-DAY SAINTS**

Property Number:  
501-2698

**JOB NUMBER:** 24604  
**OWNER:** LDS CHURCH  
**DATE:** SEPTEMBER 2024

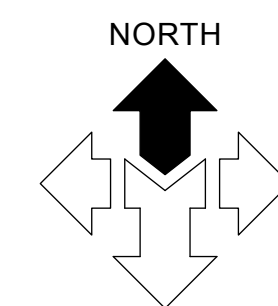
**REV DATE DESCRIPTION**  
1 11/29/24 CITY REVIEW COMMENTS

**LANDSCAPE  
IRRIGATION PLAN**

**L121**

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UTAH SUMMIT  
PARTNERS LLC

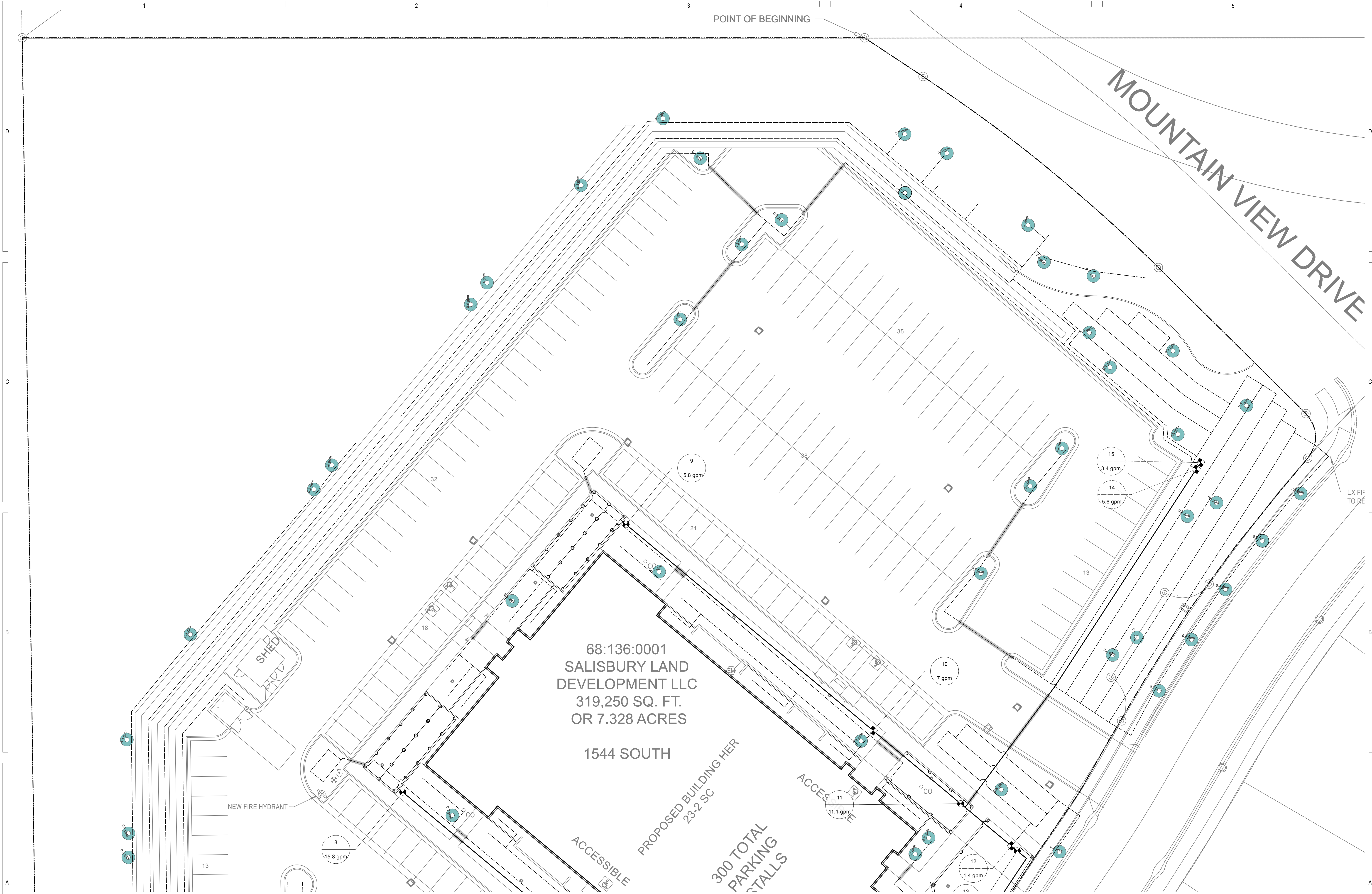
80 120 FT



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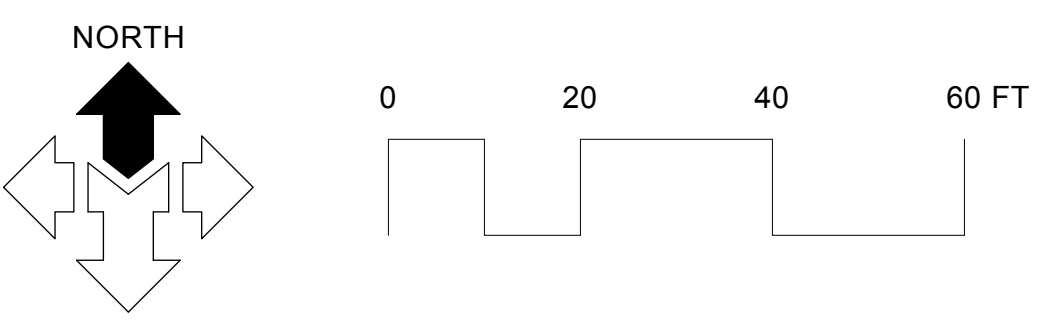




68:136:0001  
SALISBURY LAND  
DEVELOPMENT LLC  
319,250 SQ. FT.  
OR 7.328 ACRES

1544 SOUTH

ACCESSIBLE  
PROPOSED BUILDING HER  
23-2-SC  
300 TOTAL  
PARKING  
STALLS



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SANTAQUIN STAKE CENTER

1544 SOUTH SAGEBERRY DRIVE  
SANTAQUIN, UTAH

JOB NUMBER:	501-2698	
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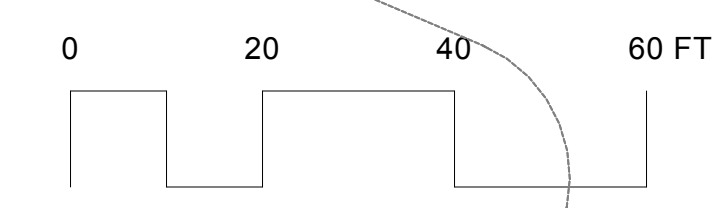
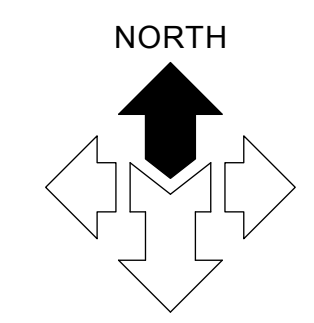
LANDSCAPE IRRIGATION PLAN - NORTH

**L122**





32:022:0019  
UTAH SUMMIT  
PARTNERS LLC



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SANTAQUIN STAKE CENTER

1544 SOUTH SAGEBERRY DRIVE  
SANTAQUIN, UTAH

JOB NUMBER: 501-2698  
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REV	DATE	DESCRIPTION
1	11/29/24	CITY REVIEW COMMENTS

LANDSCAPE IRRIGATION PLAN - SOUTH

**L123**





**SANTAQUIN STAKE CENTER**  
 1544 SOUTH SAGEBERRY DRIVE  
 SANTAQUIN, UTAH

Project For:

**THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS**

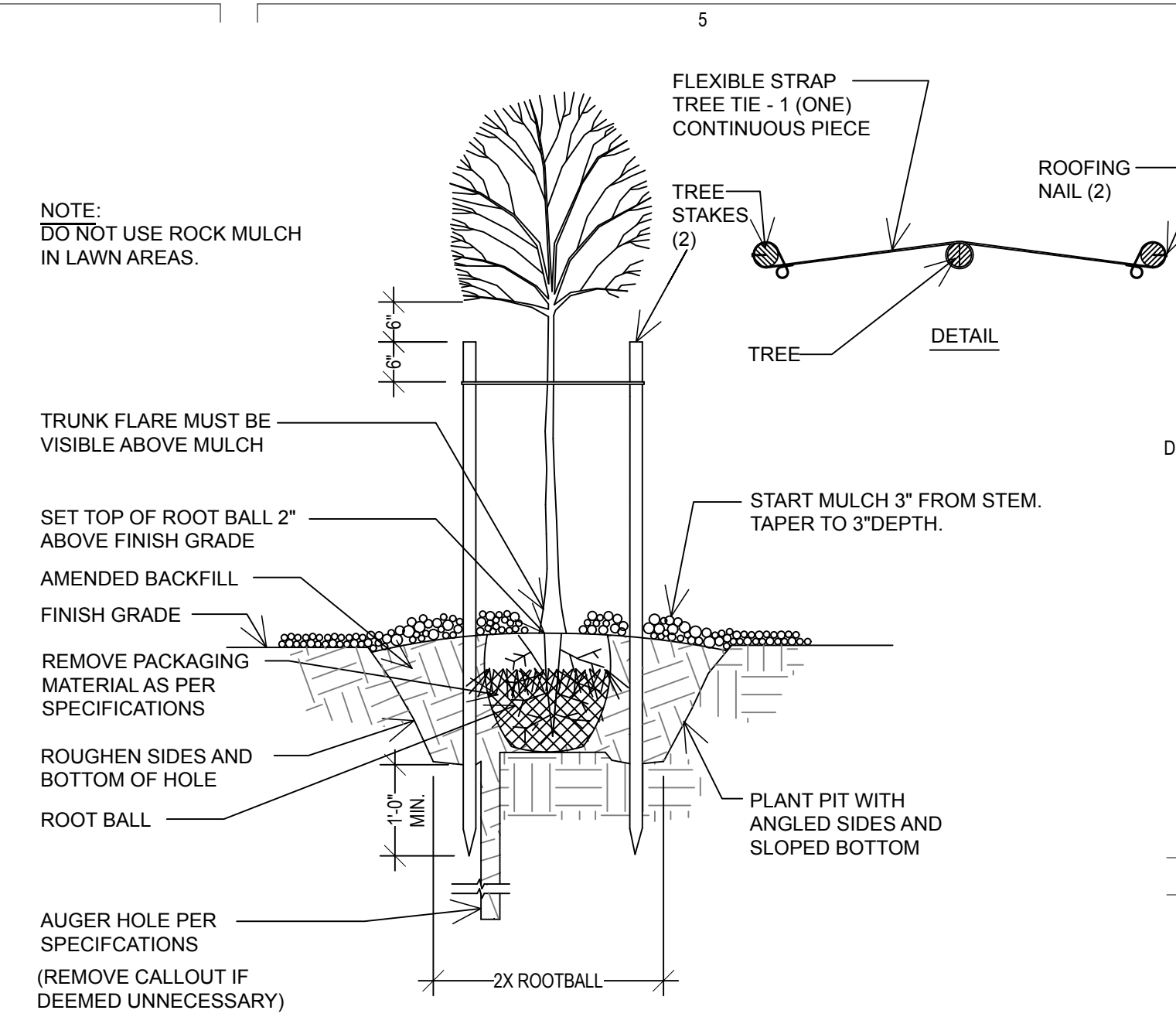
Property Number:  
501-2698

JOB NUMBER: 24604  
 OWNER: LDS CHURCH  
 DATE: SEPTEMBER 2024

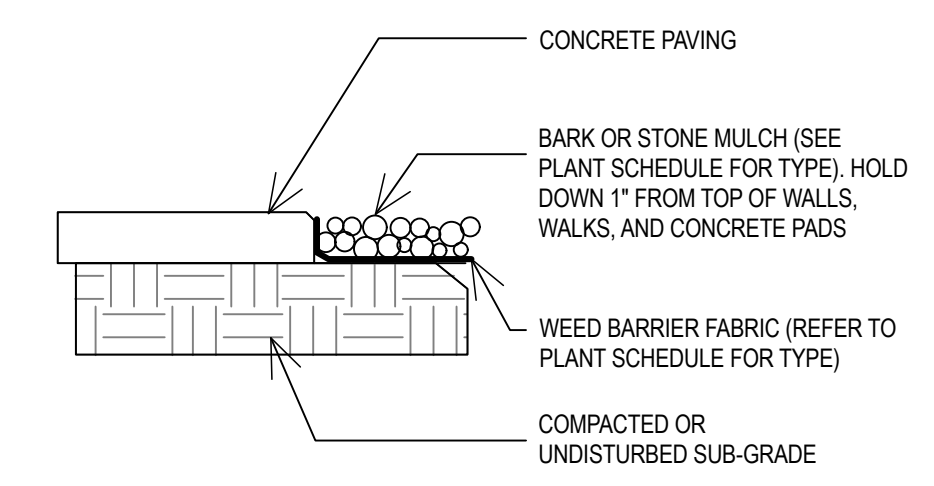
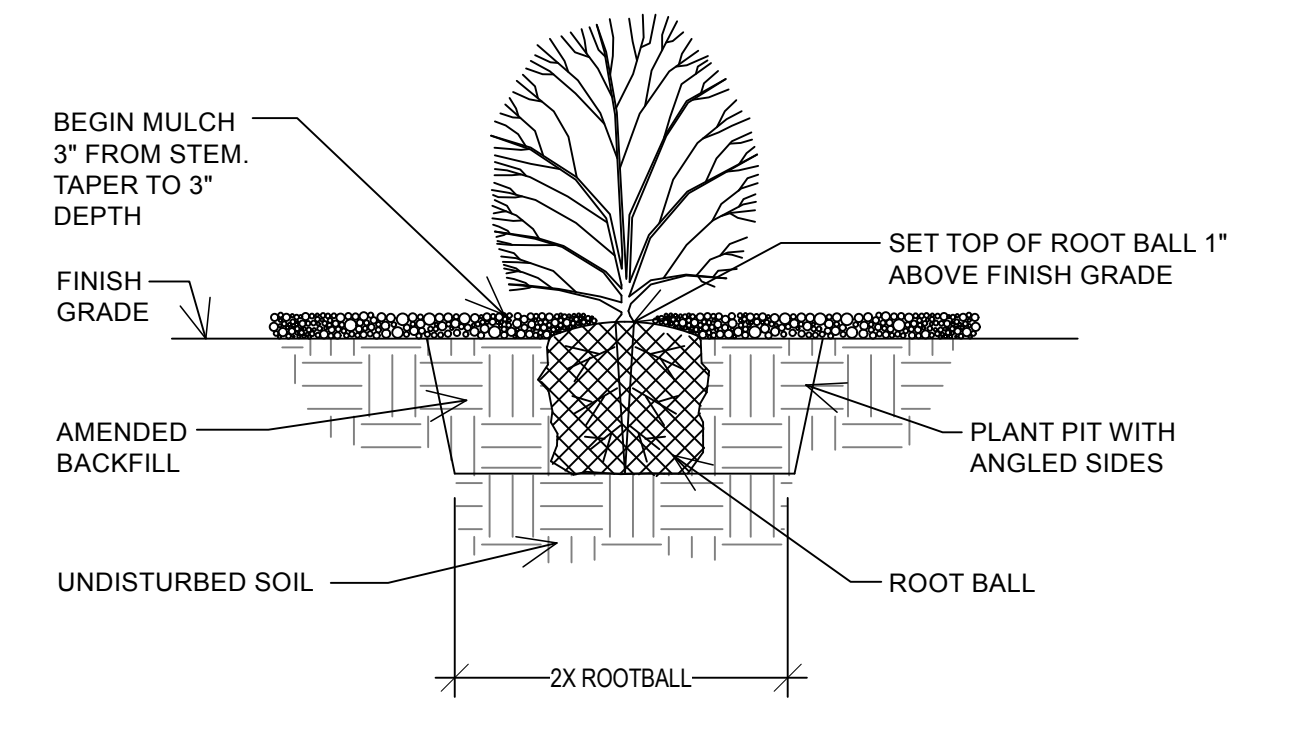
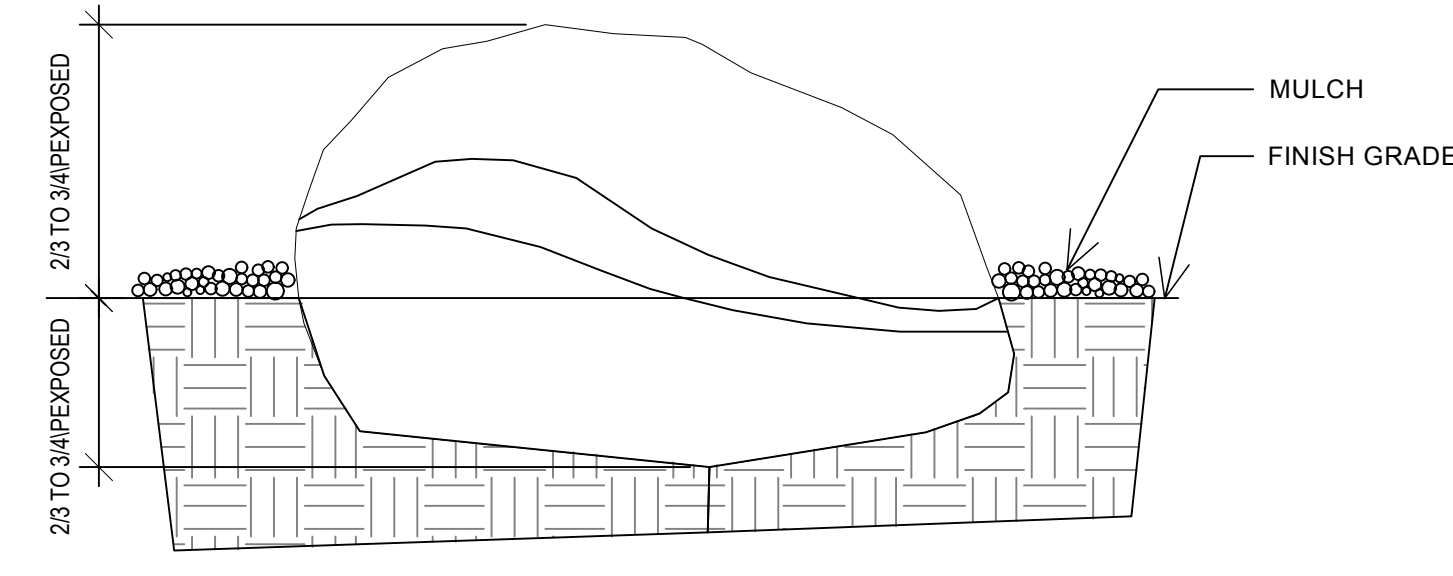
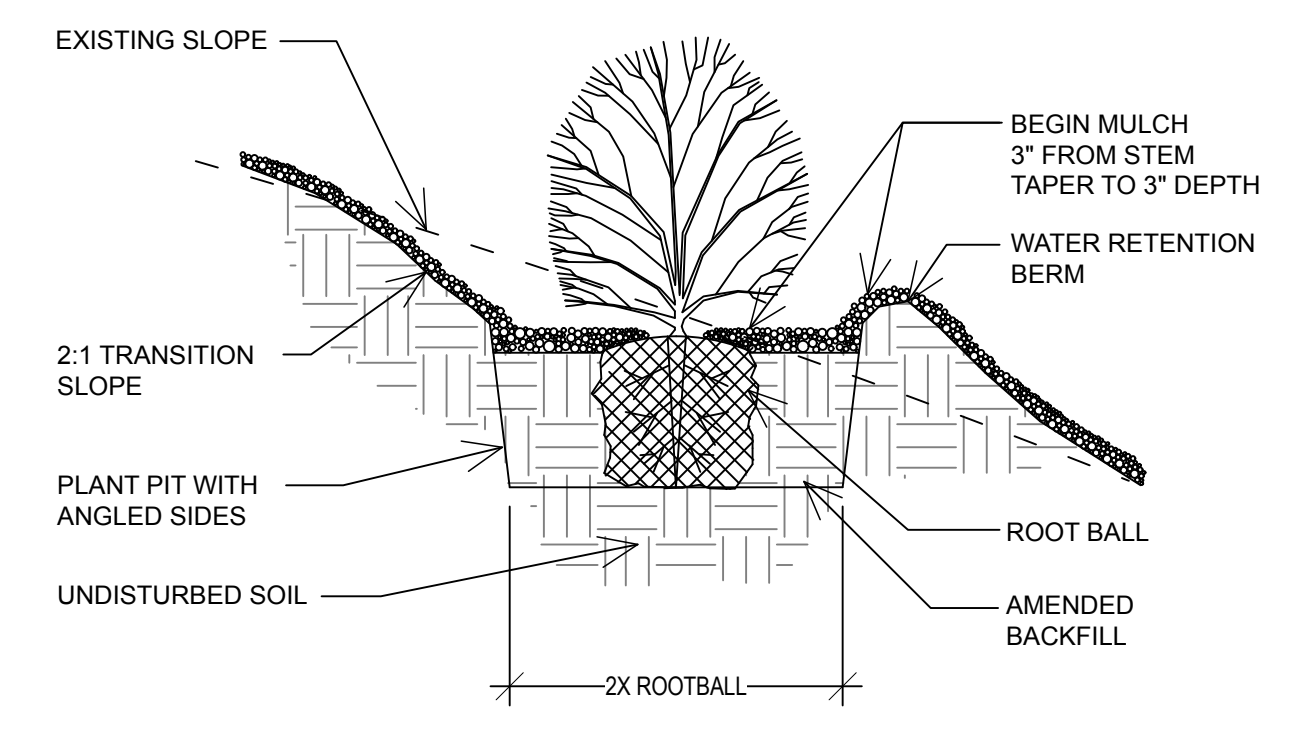
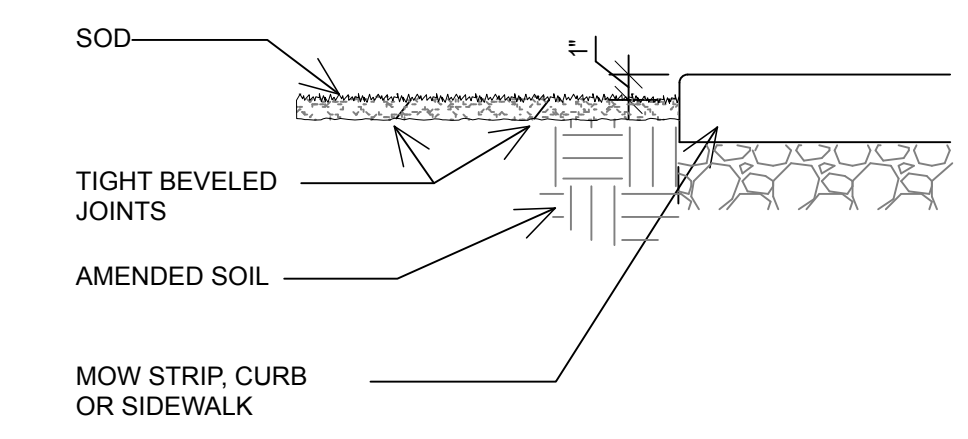
REV DATE DESCRIPTION

LANDSCAPE DETAILS

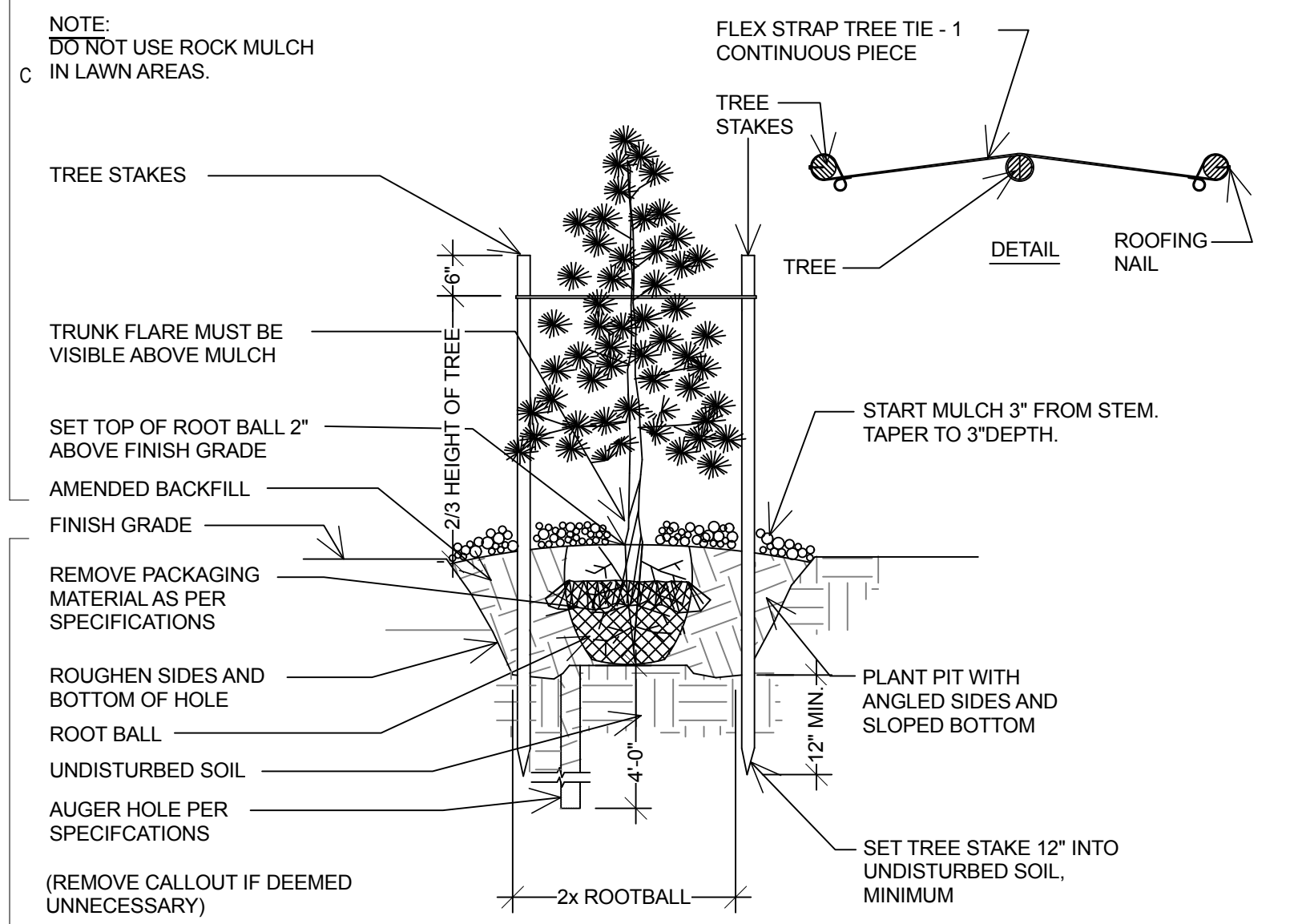
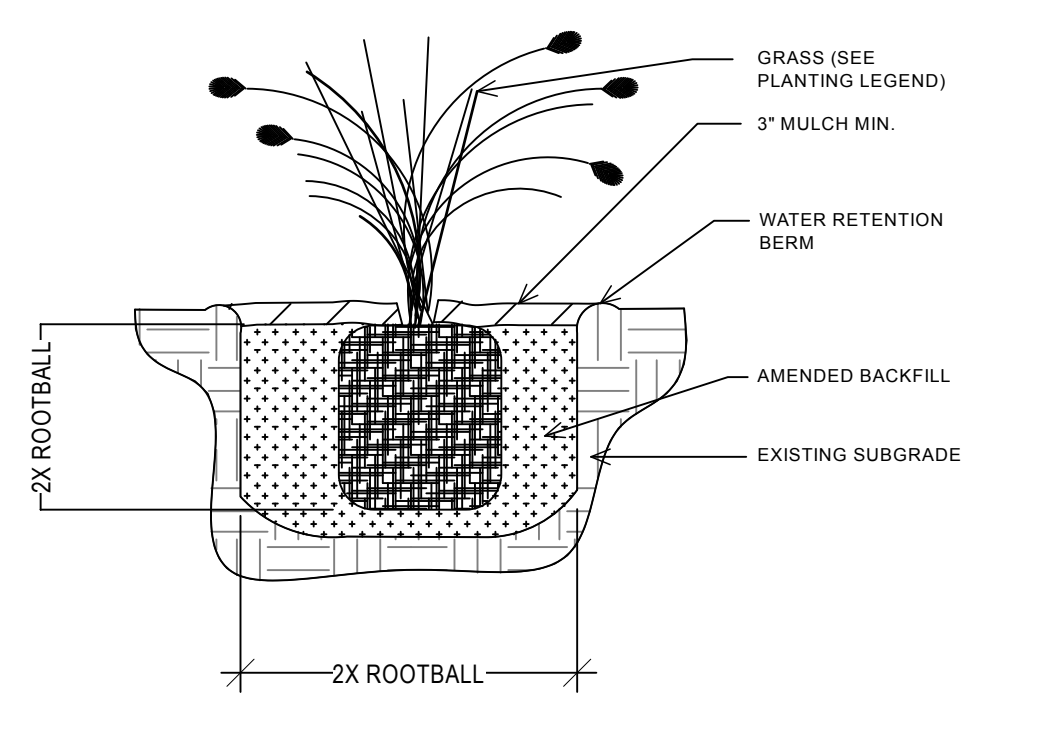
**L501**



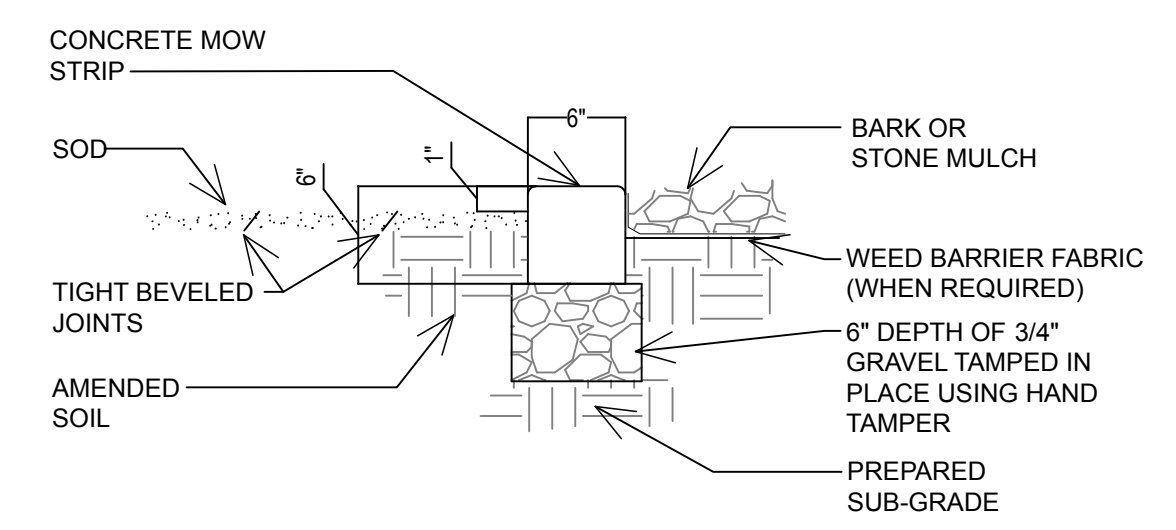
- NOTES:**
- A. LAYING OF SOD:**
- LAY SOD DURING GROWING SEASON AND WITHIN 48 HOURS OF BEING LIFTED.
  - LAY SOD WHILE TOP 6 INCHES OF SOIL IS DAMP, BUT NOT MUDDY. SODDING DURING FREEZING TEMPERATURES OR OVER FROZEN SOIL IS NOT ACCEPTABLE.
  - LAY SOD IN ROWS PERPENDICULAR TO SLOPE WITH JOINTS STAGGERED. BUTT SECTIONS CLOSELY WITHOUT OVERLAPPING OR LEAVING GAPS BETWEEN SECTIONS. CUT OUT IRREGULAR OR THIN SECTIONS WITH A SHARP KNIFE.
  - LAY SOD FLUSH WITH ADJOINING EXISTING SODDED SURFACES.
  - DO NOT SOD SLOPES STEEPER THAN 3:1. CONSULT WITH ARCHITECT FOR ALTERNATE TREATMENT.
- B. AFTER LAYING OF SOD IS COMPLETE:**
- ROLL HORIZONTAL SURFACE AREAS IN TWO DIRECTIONS PERPENDICULAR TO EACH OTHER.
  - REPAIR AND RE-ROLL AREAS WITH DEPRESSIONS, LUMPS, OR OTHER IRREGULARITIES. HEAVY ROLLING TO CORRECT IRREGULARITIES IN GRADE WILL NOT BE PERMITTED.
  - WATER SODDED AREAS IMMEDIATELY AFTER LAYING SOD TO OBTAIN MOISTURE PENETRATION THROUGH SOD INTO TOP 6 INCHES OF TOPSOIL.



- NOTES:**
- APPLY PRE-EMERGENT HERBICIDE TO SHRUB AND GROUND COVER PLANTING AREAS AND GRASS-FREE AREAS AT TREES IN LAWN PRIOR TO PLACEMENT OF WEED BARRIER FABRIC AND MULCH.
  - PRE-EMERGENT SHALL BE "SURFLAN AS" (LIQUID) BY UNITED PHOSPHORUS INC, TRENTON, NJ, OR APPROVED EQUAL.
  - INSTALL MULCH TO UNIFORM DEPTH AND RAKE TO NEAT FINISHED APPEARANCE FREE OF HUMPS AND DEPRESSIONS.



- NOTES:**
- MOW STRIP TO BE 4,500 PSI CONCRETE WITH 6% AIR ± 1 1/2.
  - INSTALL EXPANSION AND CONTROL JOINTS AS PER SPECIFICATIONS.
  - PROVIDE POSITIVE DRAINAGE AROUND MOW STRIPS. DO NOT CREATE A DAM EFFECT WITH PLACEMENT OF MOW STRIP.
  - MAXIMUM 1/2" WIDTH VARIATION.
  - FOLLOW LAYOUT PLAN PRECISELY AS SHOWN ON MOW STRIP/EDGING DIMENSION PLAN.
  - RAISE THE LAWN GRADE 1" WHEN SEEDING.







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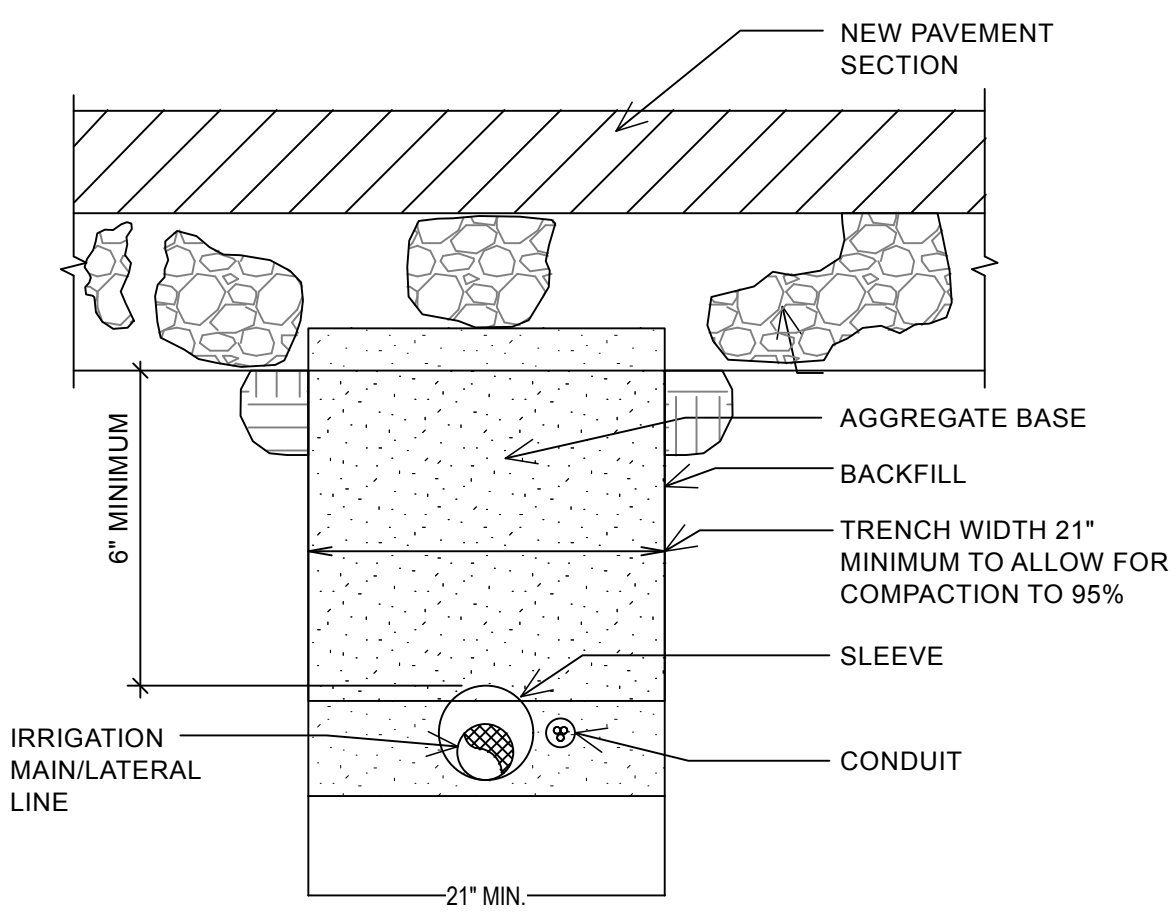
Property Number:  
501-2698

**JOB NUMBER:** 24604  
**OWNER:** LDS CHURCH  
**DATE:** SEPTEMBER 2024

REV	DATE	DESCRIPTION
1	11/29/24	CITY REVIEW COMMENTS

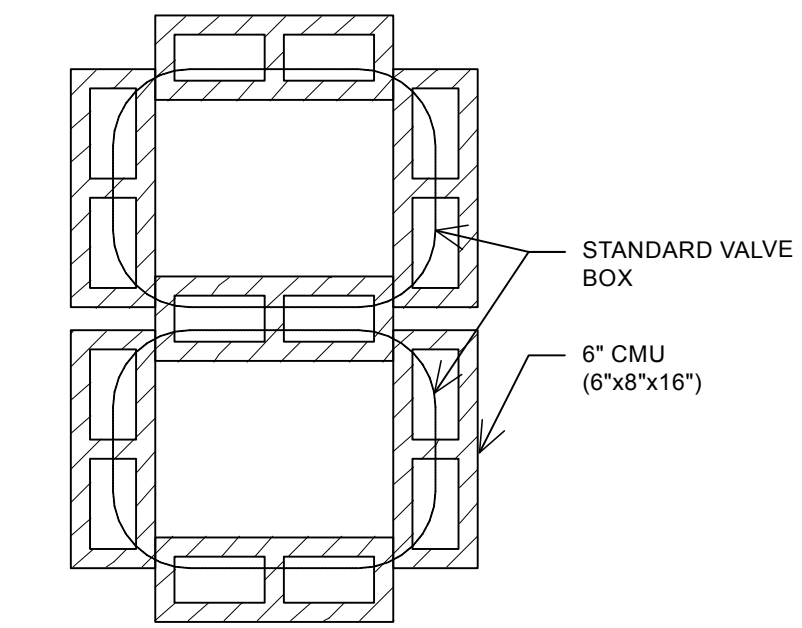
**LANDSCAPE IRRIGATION DETAILS**

**L502**

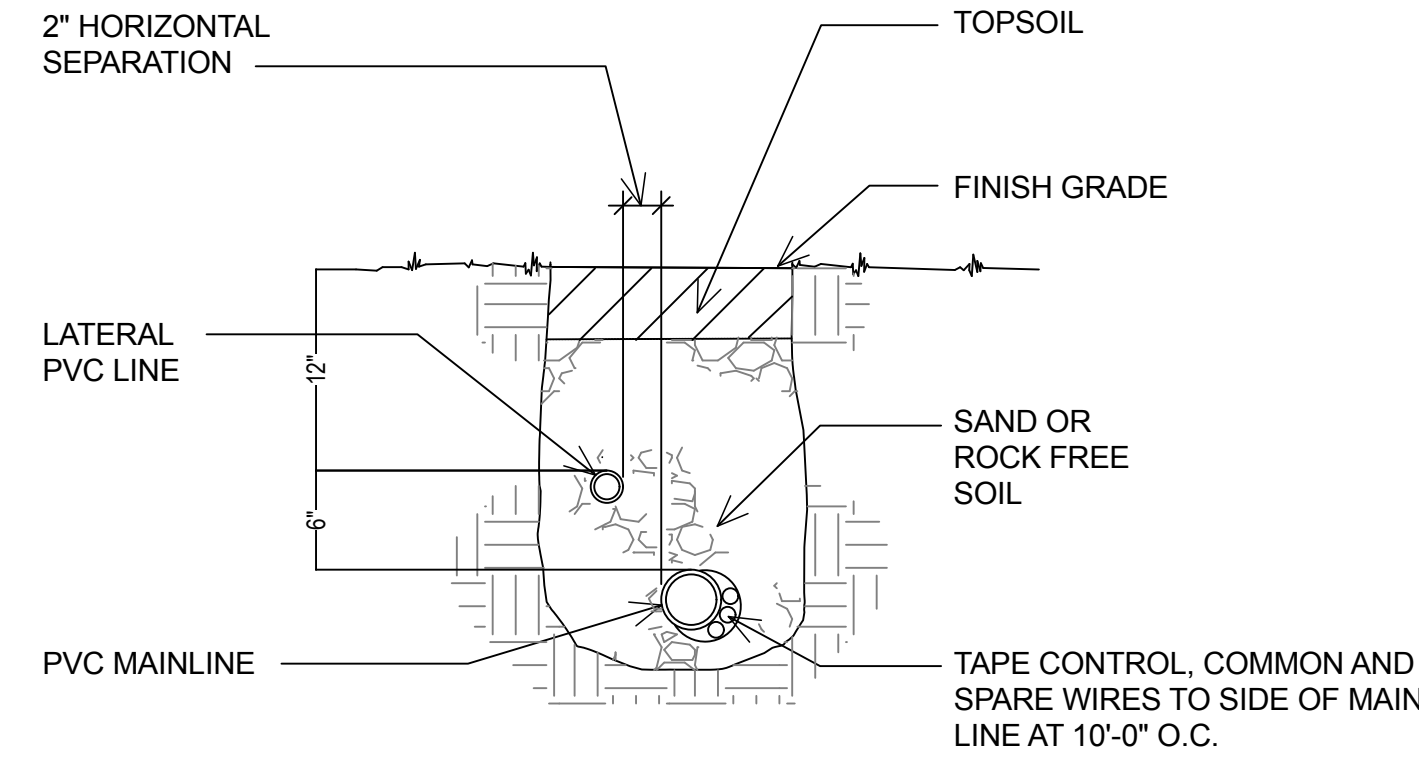


**D** MISC. PIPE TRENCH DETAIL NEW PAVEMENT AREAS  
NO SCALE

NOTES:  
 1. VALVE BOX TO REST ON (4) CMU BLOCKS (ONE FOR EACH SIDE).  
 2. CLUSTERED VALVE BOXES MAY SHARE A CMU BLOCK.

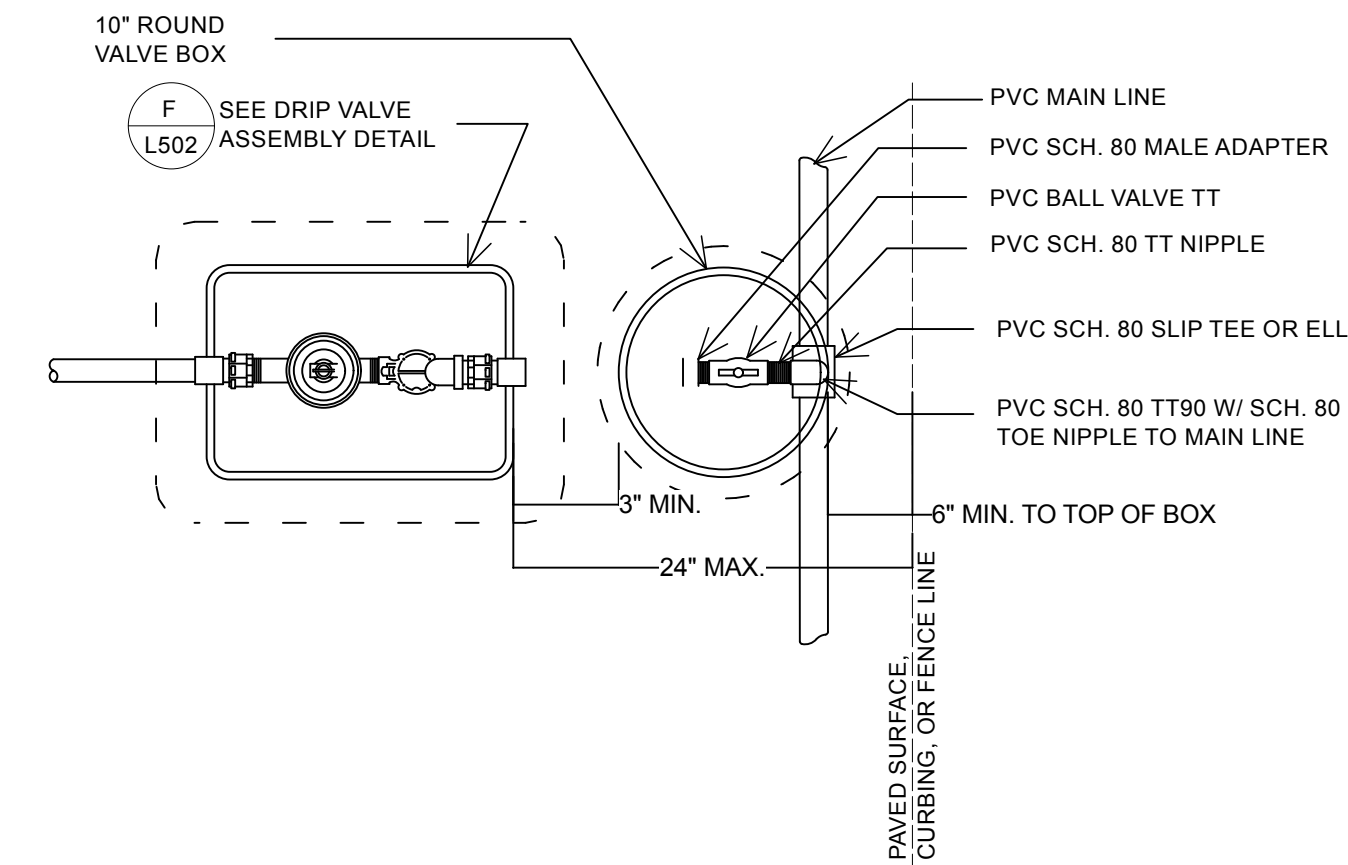


**H** CMU PLACEMENT  
NO SCALE

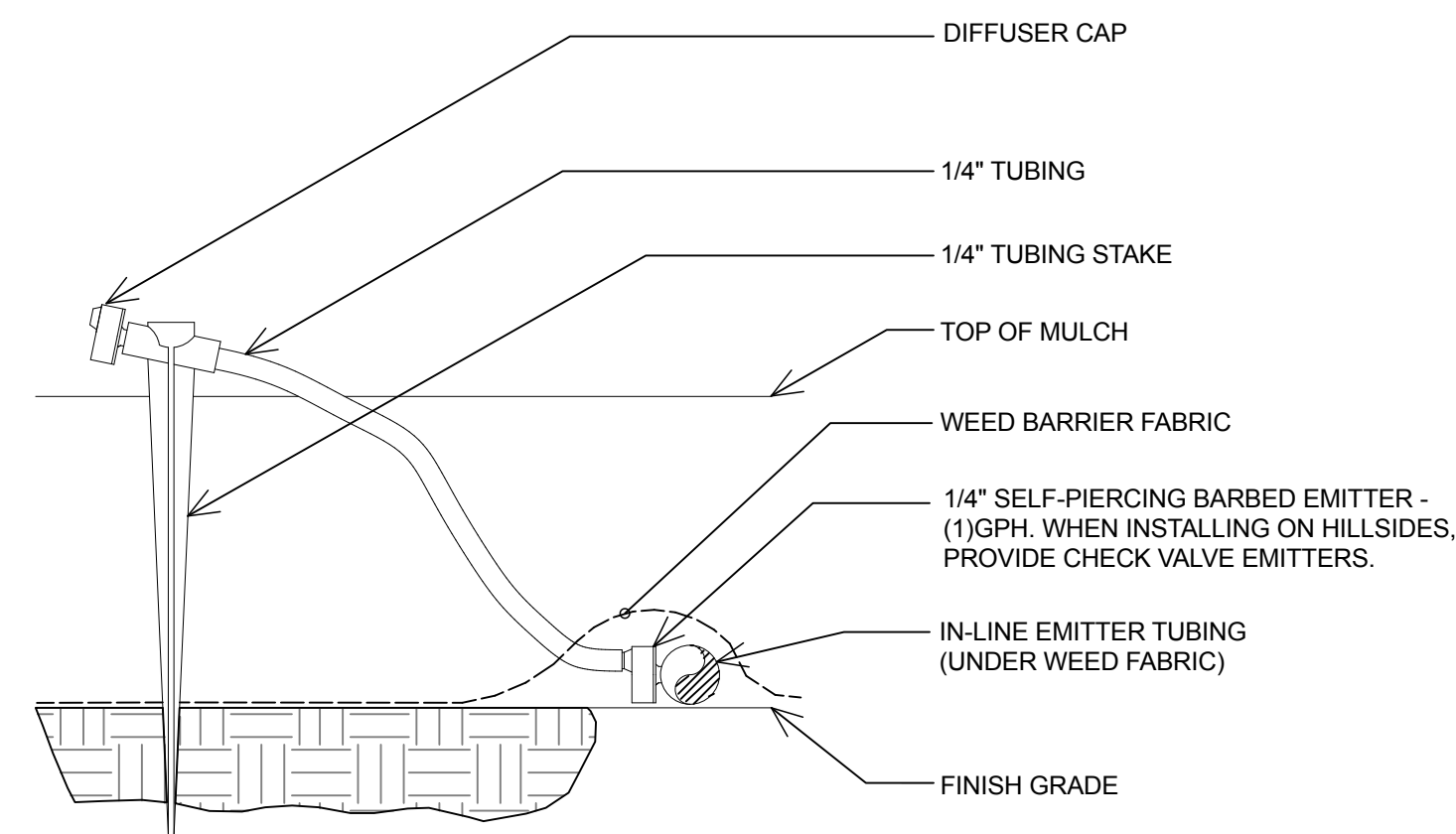


**C** TRENCH SECTION - CONVENTIONAL WIRE SYSTEM  
NO SCALE

NOTE:  
 1. IF BALL VALVE IS INCLUDED WITH DRIP ZONE KIT, INCLUDE ENTIRE KIT WITHIN ONE BOX. REMOVE ROUND BOX. IF BALL VALVE IS PURCHASED SEPARATELY, INSTALL AS SHOWN, OR AS PER C/L502 FOR MULTIPLE DRIP VALVE ASSEMBLY.  
 2. WIRING NOT SHOWN. INSTALL AS PER CONVENTIONAL OR TWO-WIRE AUTOMATIC VALVE SECTIONS

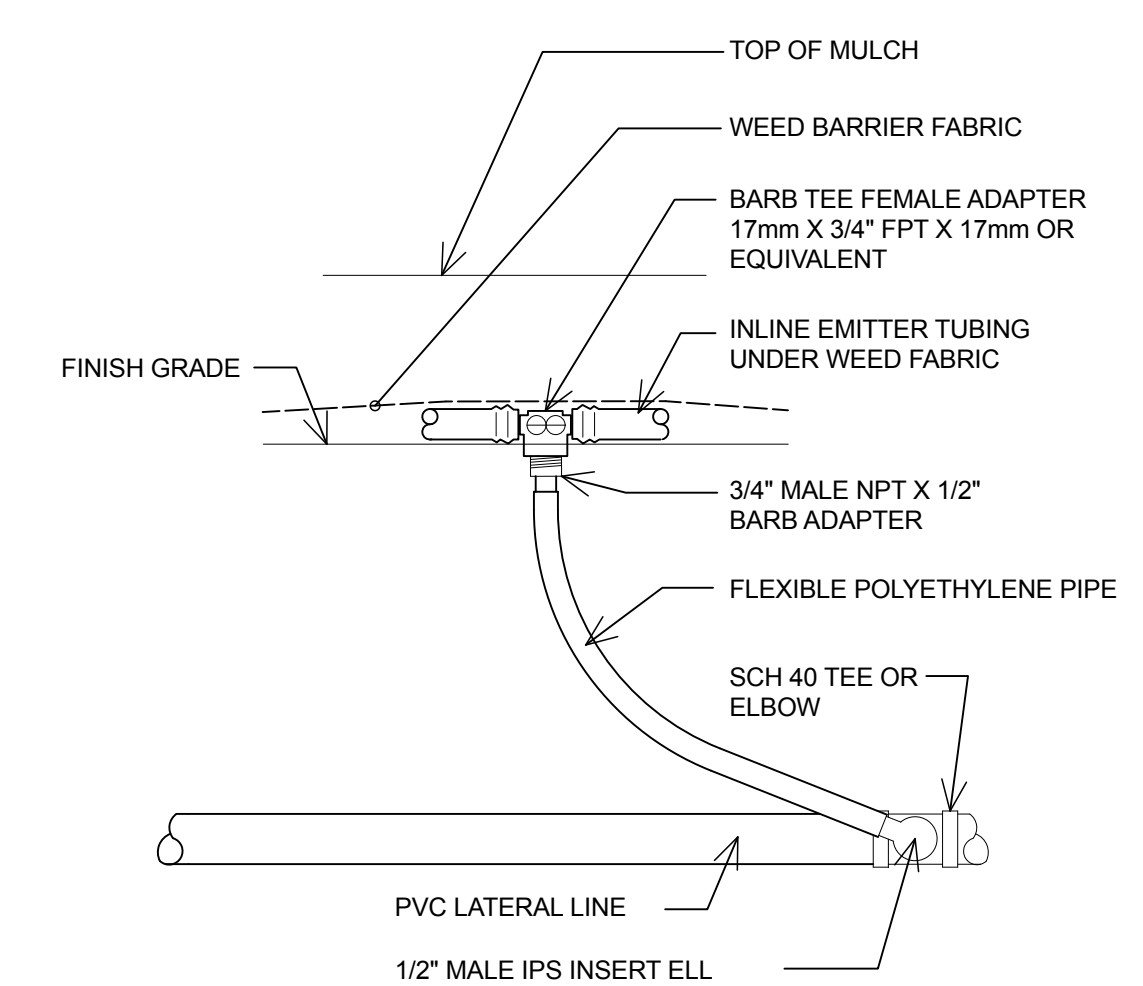


**G** DRIP VALVE ASSEMBLY  
NO SCALE



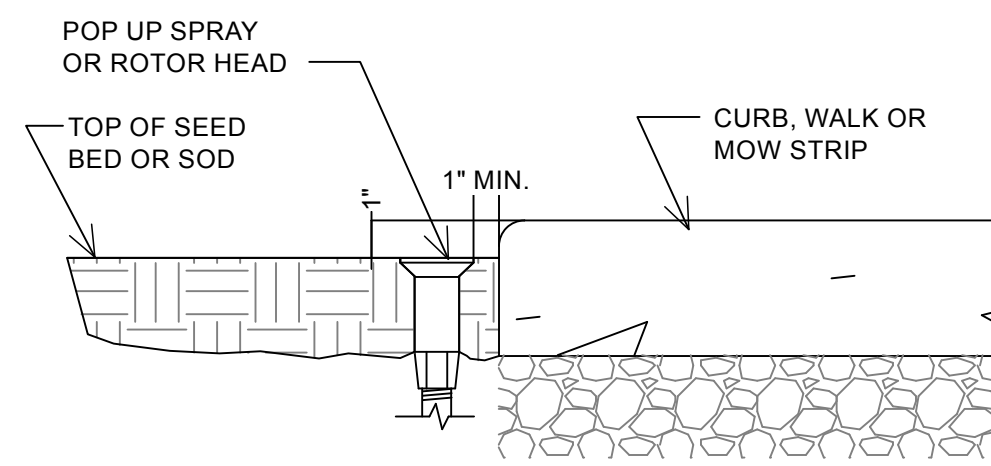
NOTE:  
 1. CONNECT SELF-PIERCING EMITTER DIRECTLY INTO IN-LINE EMITTER TUBING.  
 2. THIS IS AN INDICATOR ONLY EMITTER TO BE USED AT EACH TREE RING AND AREA WHERE IN-LINE EMITTER TUBING IS INSTALLED.  
 3. 1/4\"/>

**J** INDICATOR EMITTER  
NO SCALE



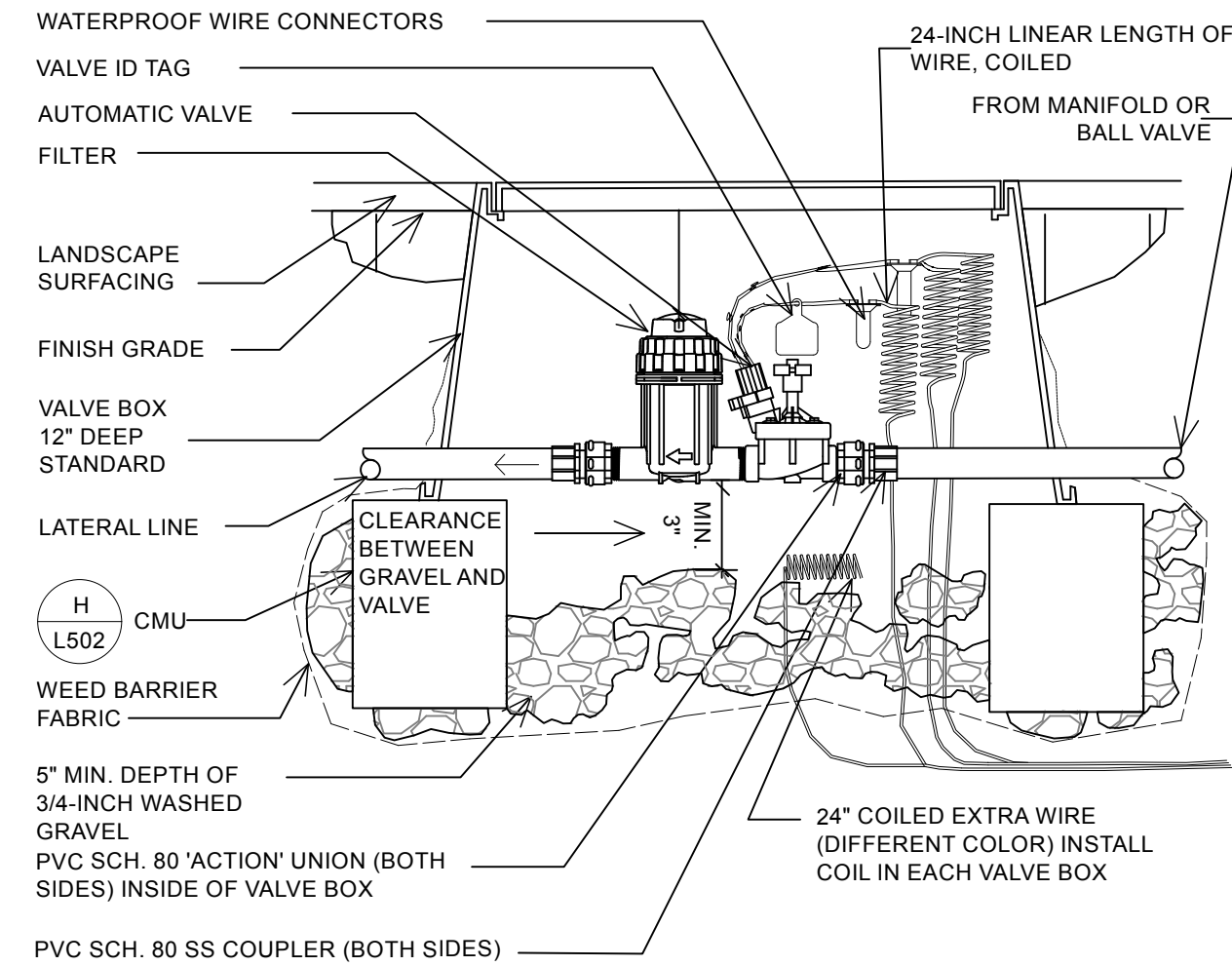
NOTE:  
 1. USE AT TREE RINGS AND AS CONNECTION FROM SUPPLY AND EXHAUST HEADERS.  
 2. DO NOT EXCEED (3) GPM FLOW THROUGH SINGLE CONNECTION.

**K** PVC TO IN-LINE EMITTER  
NO SCALE

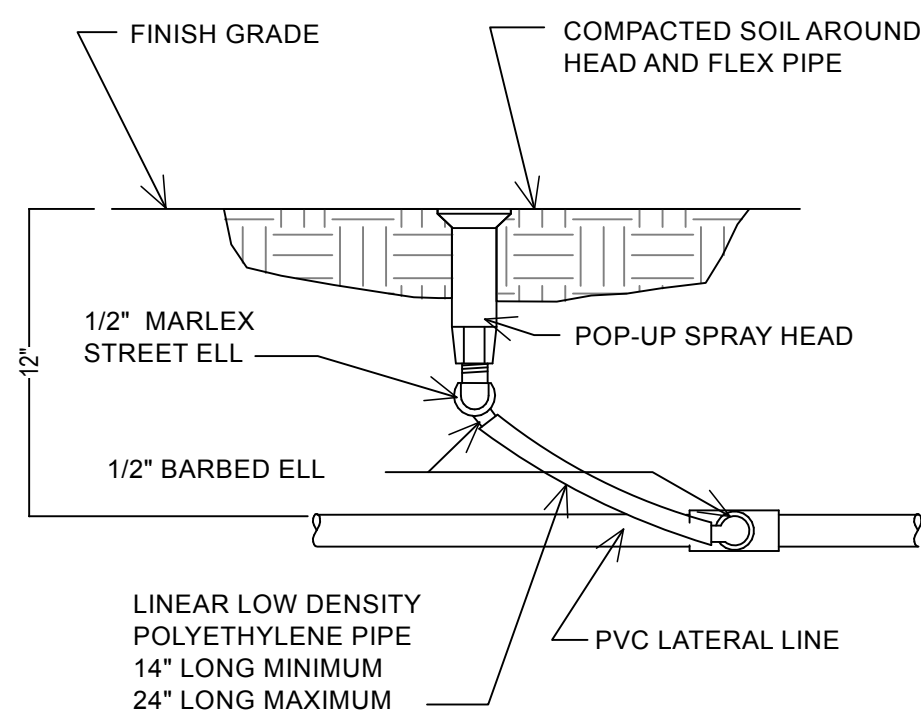


**B** SPRINKLER HEAD OR ROTOR NEXT TO CURB OR WALK  
NO SCALE

NOTES:  
 1. LIMIT 1 VALVE PER BOX.  
 2. 10\"/>

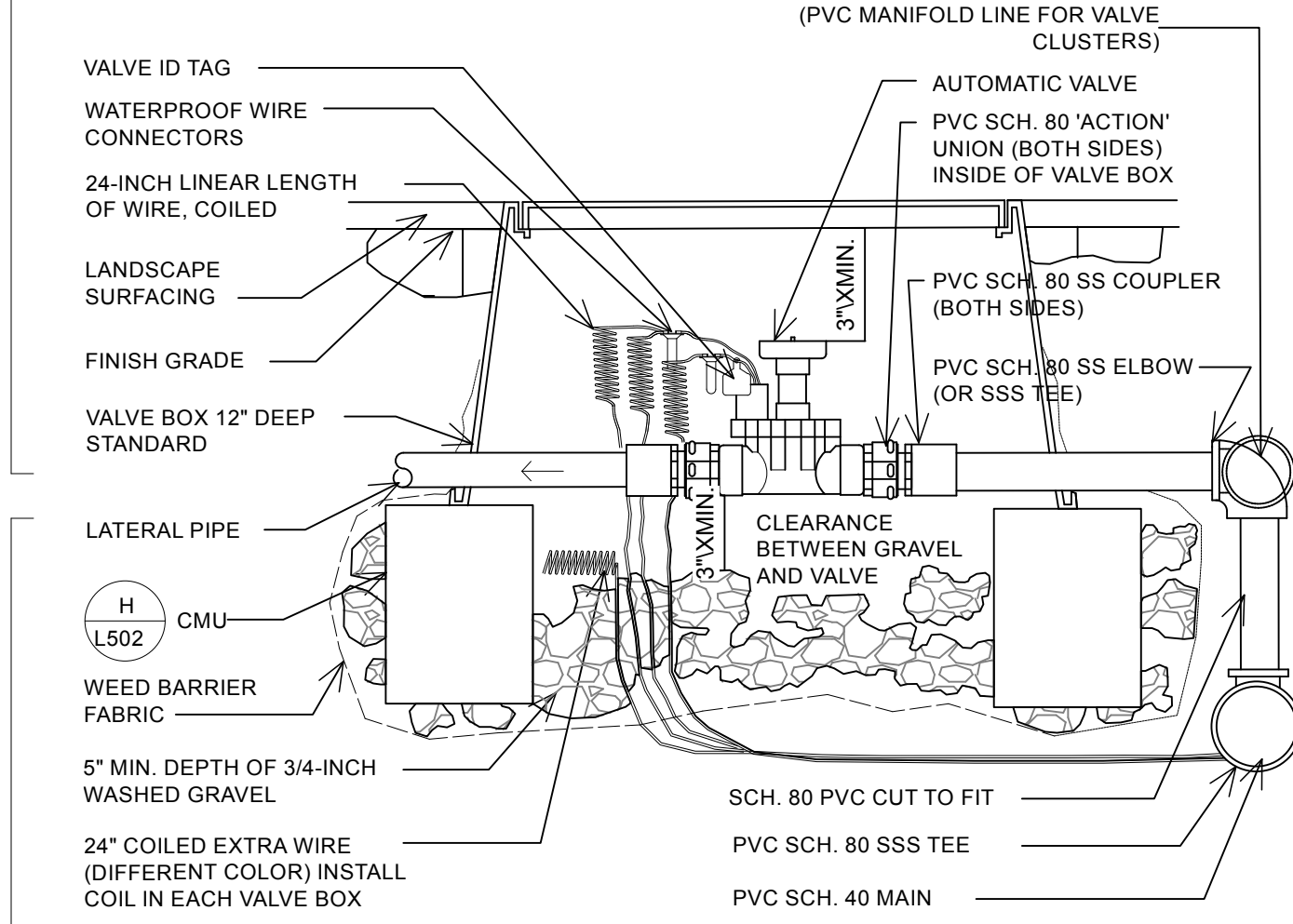


**F** DRIP VALVE ASSEMBLY-SECTION CONVENTIONAL WIRE SYSTEM  
NO SCALE

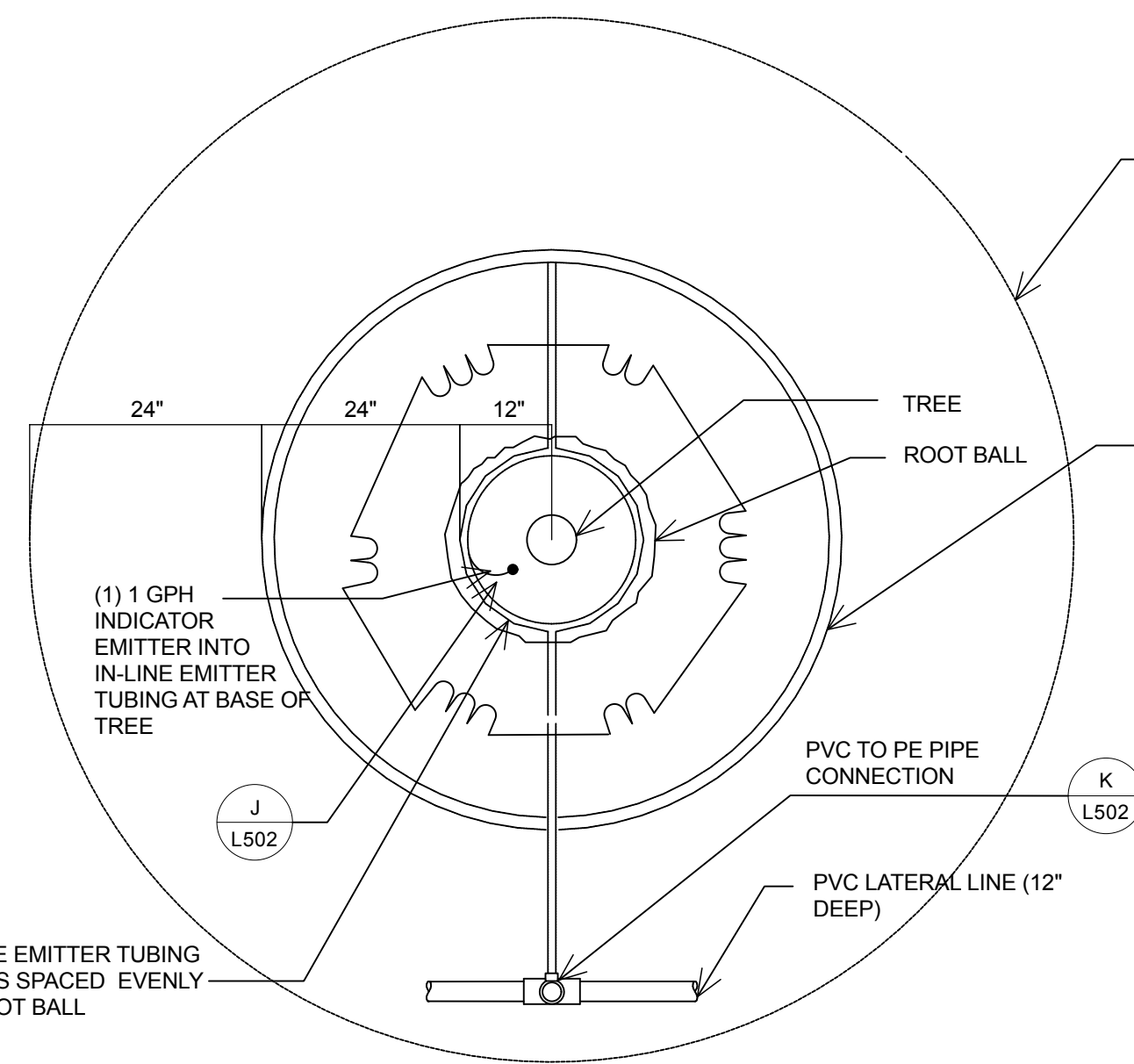


**A** SPRAY AND ROTARY HEAD ASSEMBLY  
NO SCALE

NOTES:  
 1. LIMIT 1 VALVE PER BOX.  
 2. 10\"/>



**E** AUTOMATIC VALVE WITH CONVENTIONAL WIRE SYSTEM  
NO SCALE

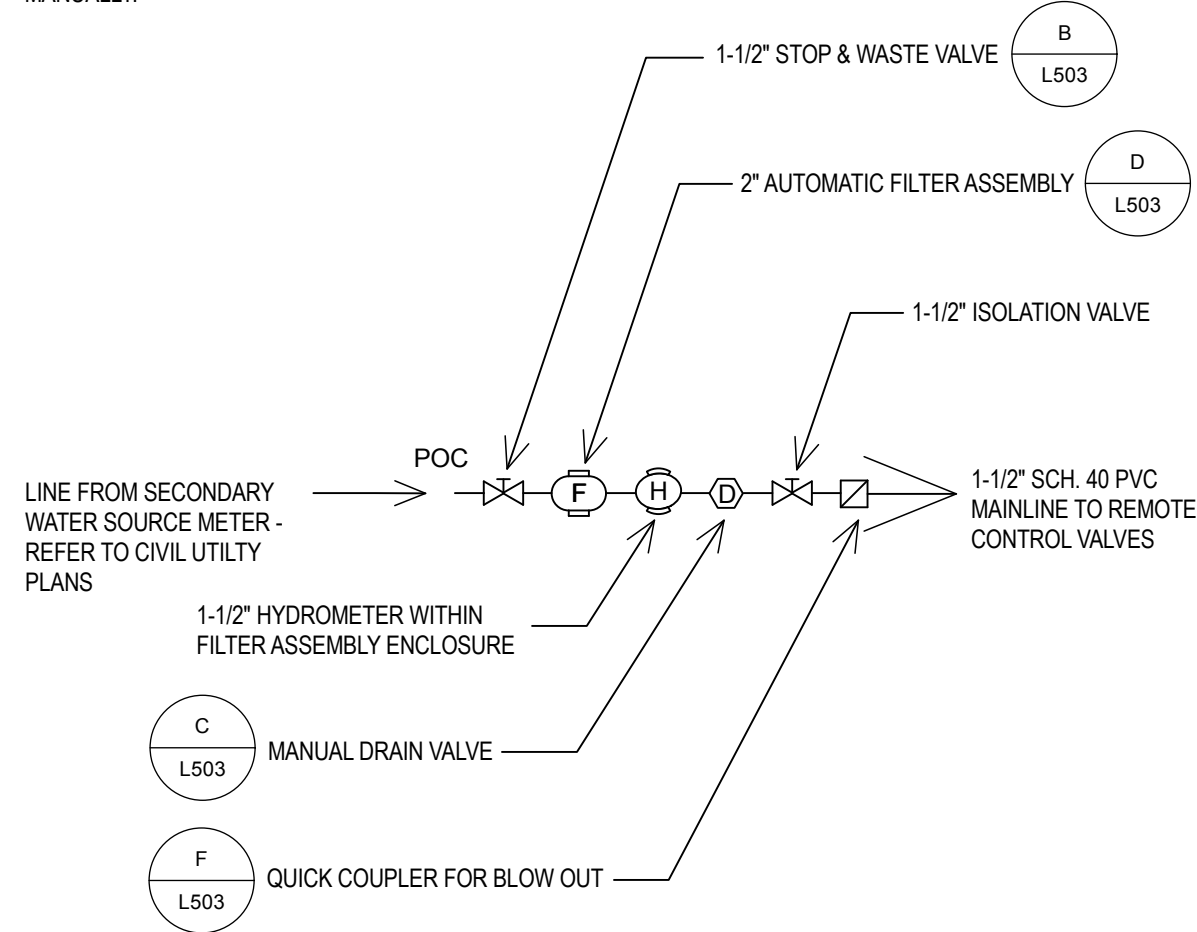


**I** TREE DRIP - PLAN VIEW (Planter Areas)  
NO SCALE

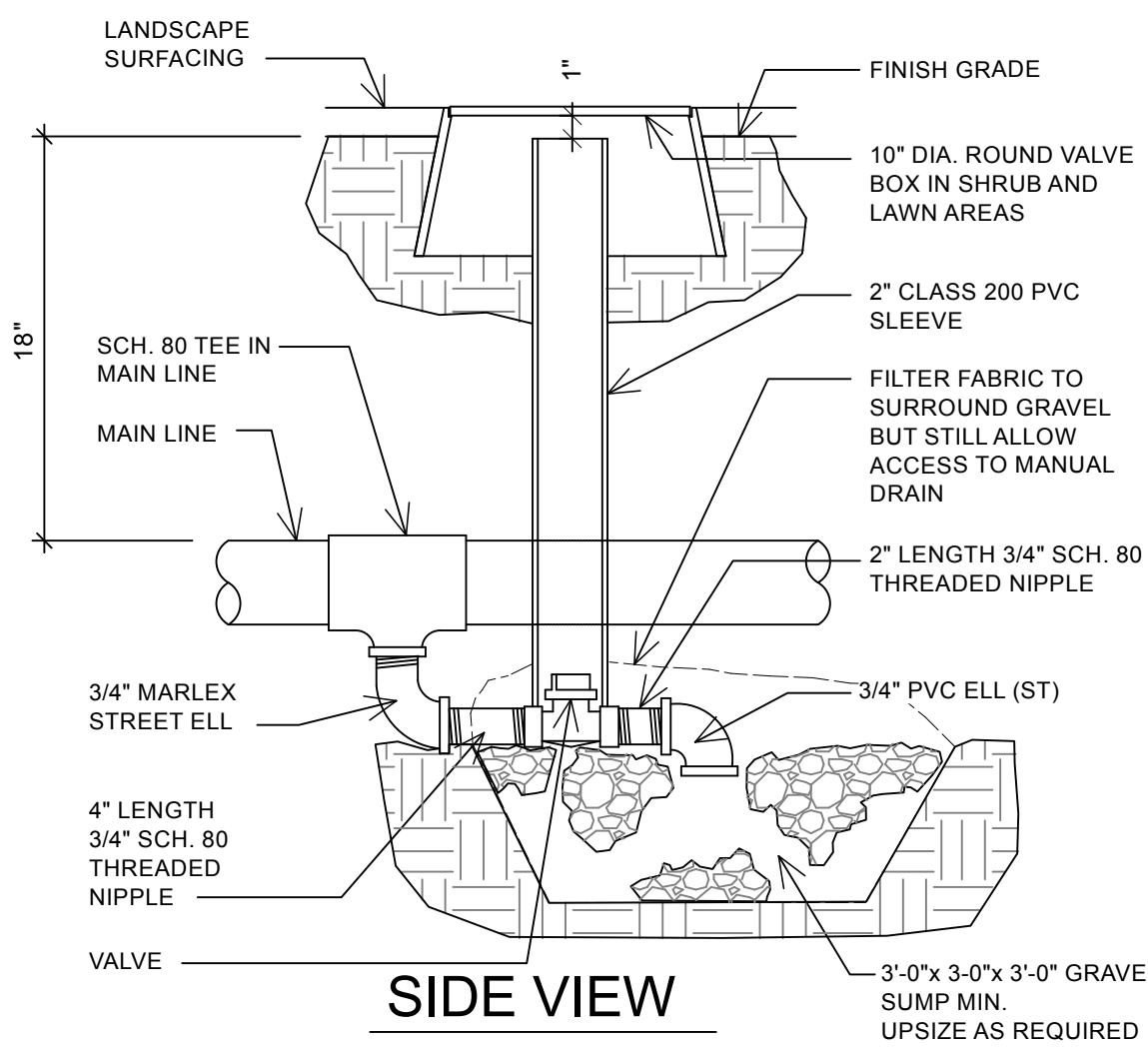
NOTE: FITTINGS TO INLINE DRIP TUBING TO BE INSERT FITTINGS. USE OETICKER CLAMPS FOR NON-NETAFIM FITTINGS.



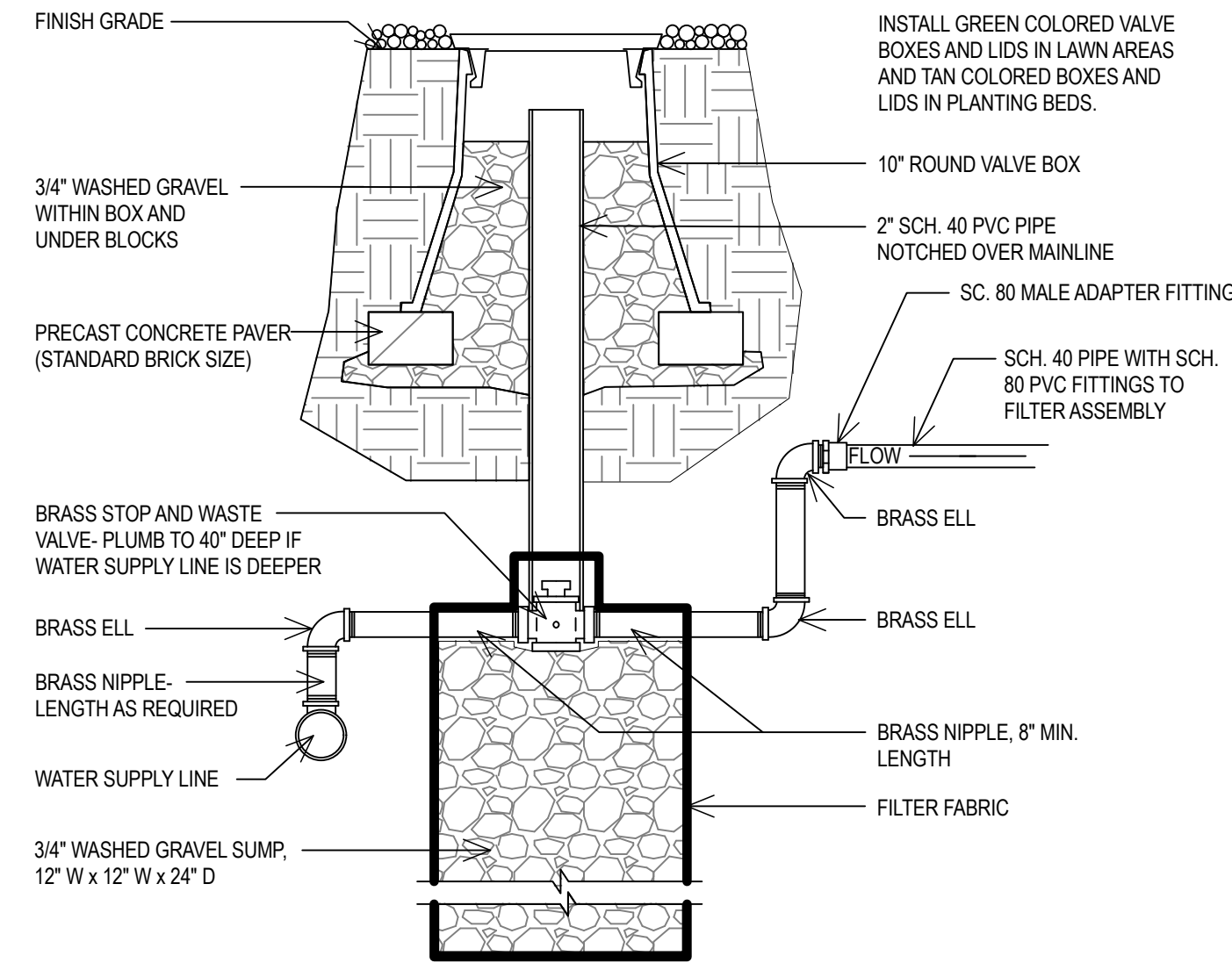
NOTE:  
INSTALL ISOLATION VALVE AFTER THE HYDROMETER AND BEFORE THE QUICK COUPLER. THE FLOW SENSOR, MASTER VALVE, AND FILTER ASSEMBLY IS TO BE DRAINED MANUALLY.



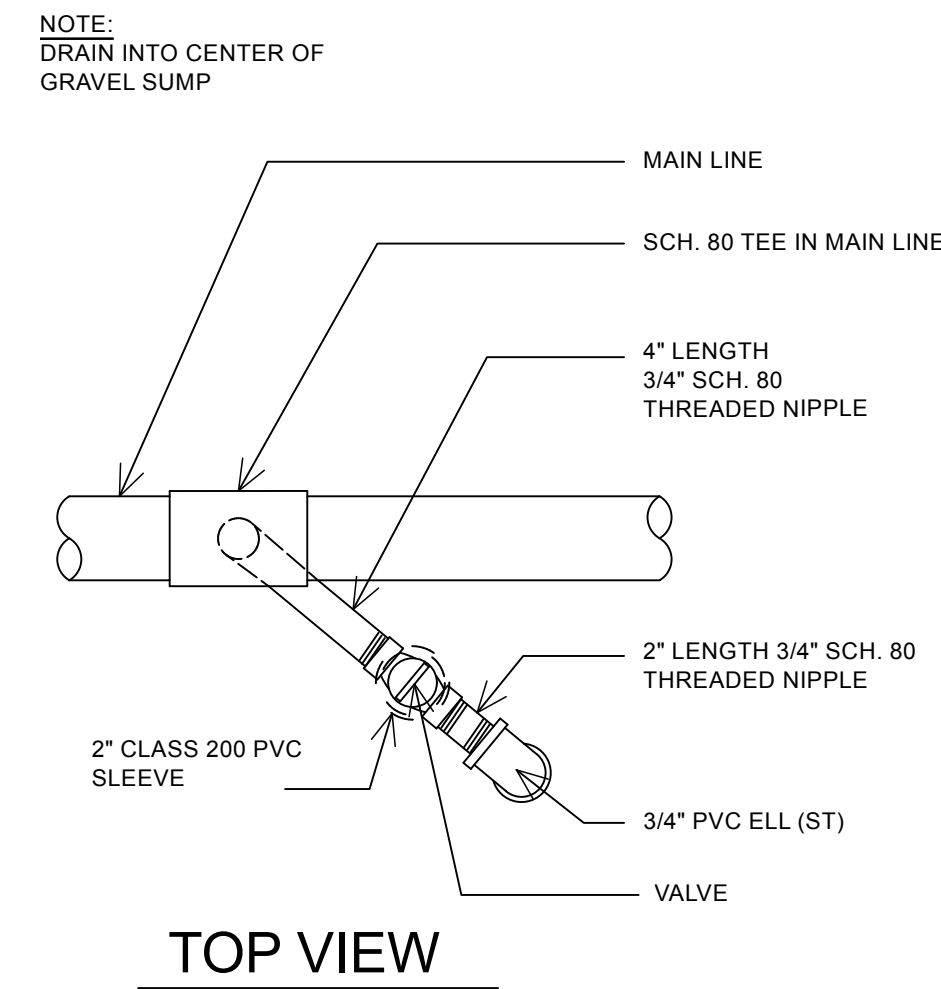
**A** POC SCHEMATIC LAYOUT  
NO SCALE



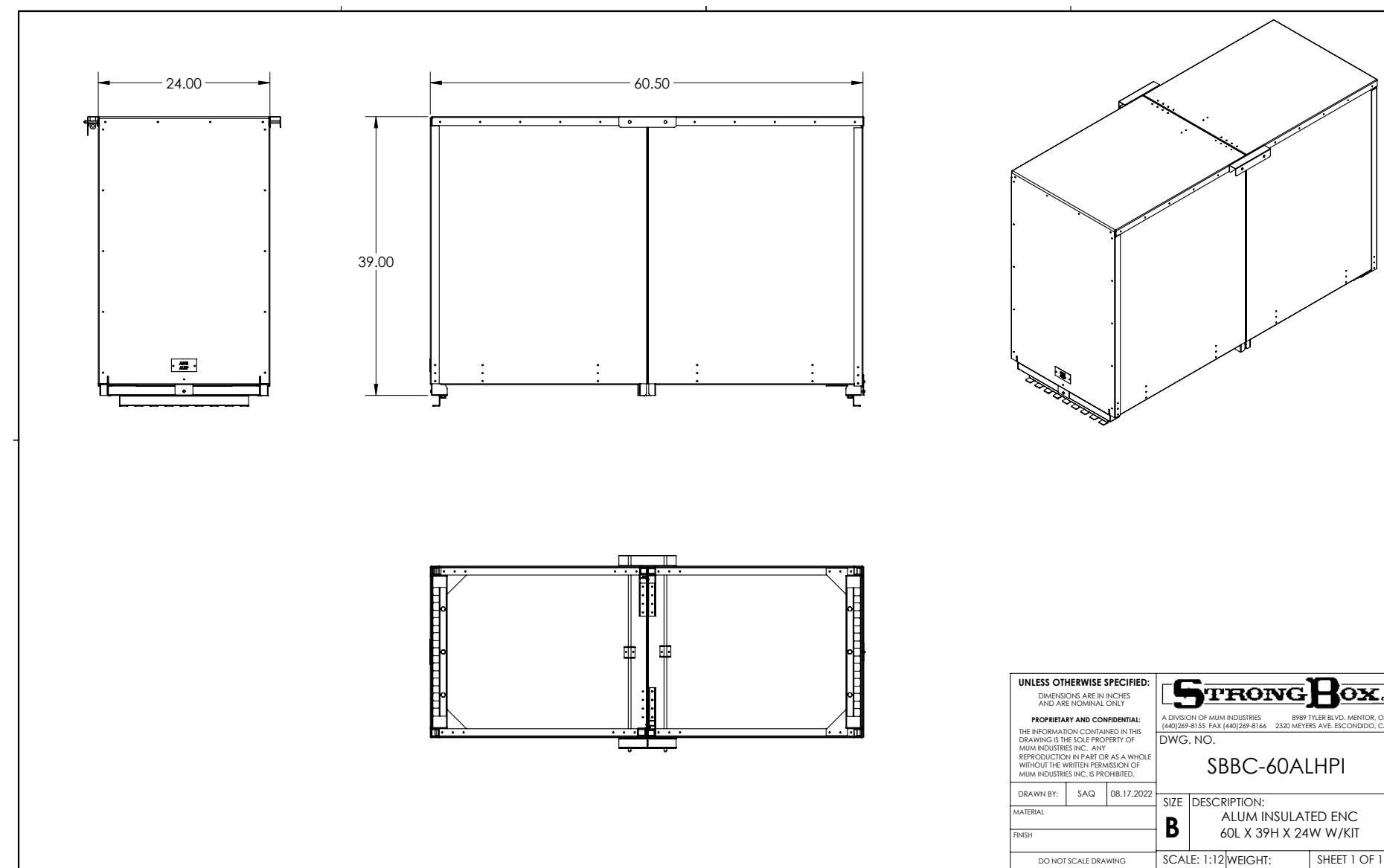
**C** MAIN LINE MANUAL DRAIN VALVE



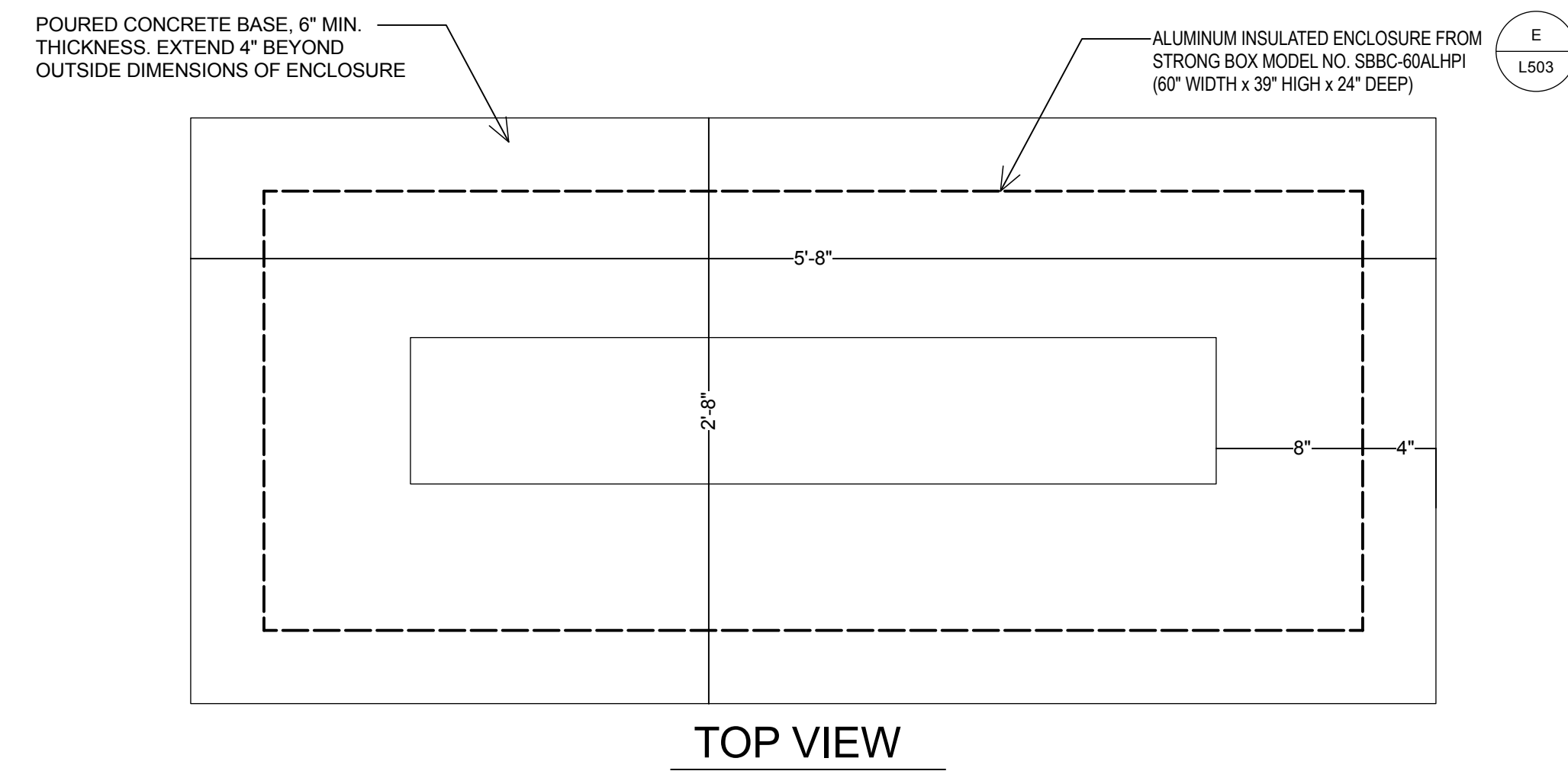
**B** STOP & WASTE VALVE  
NO SCALE



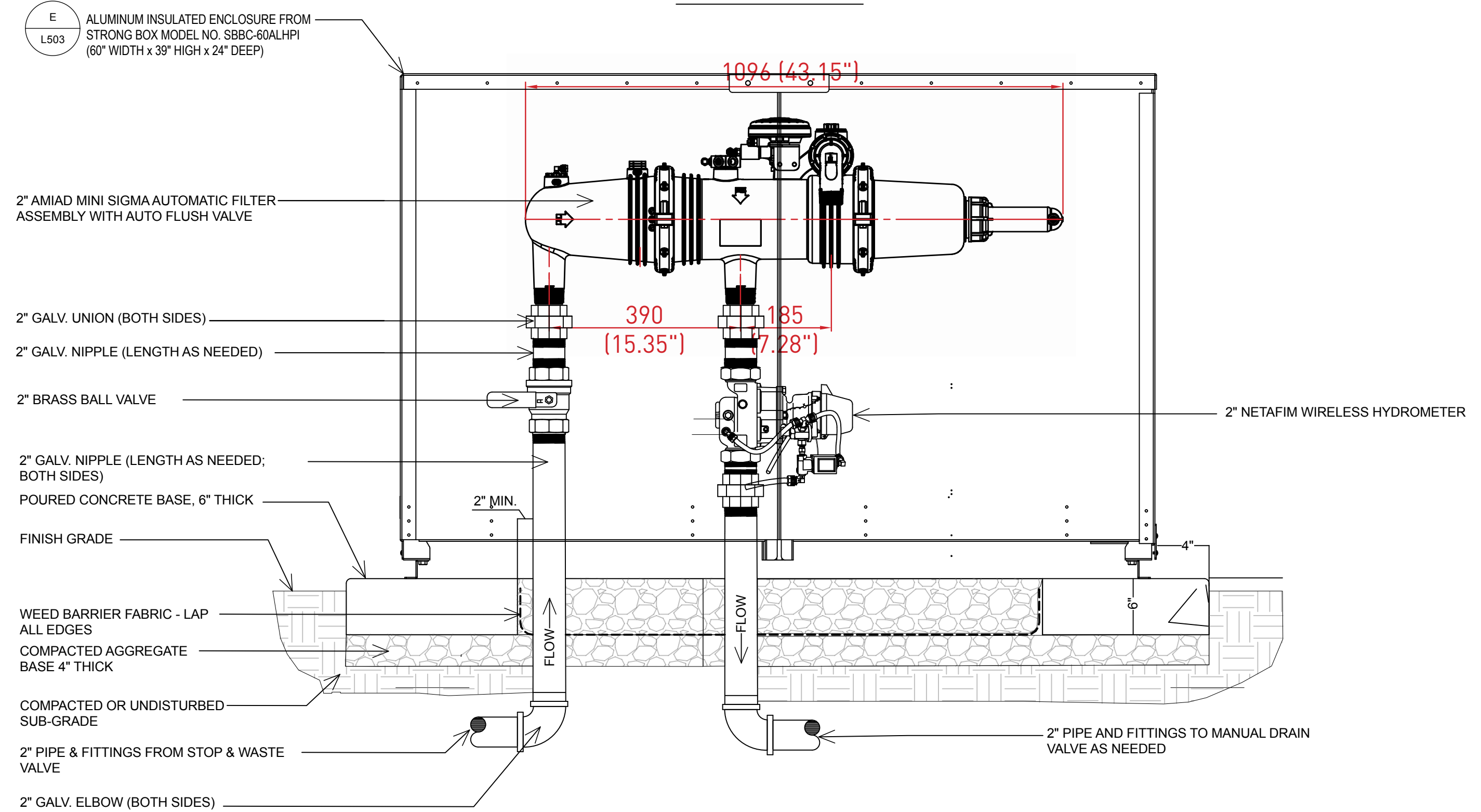
TOP VIEW



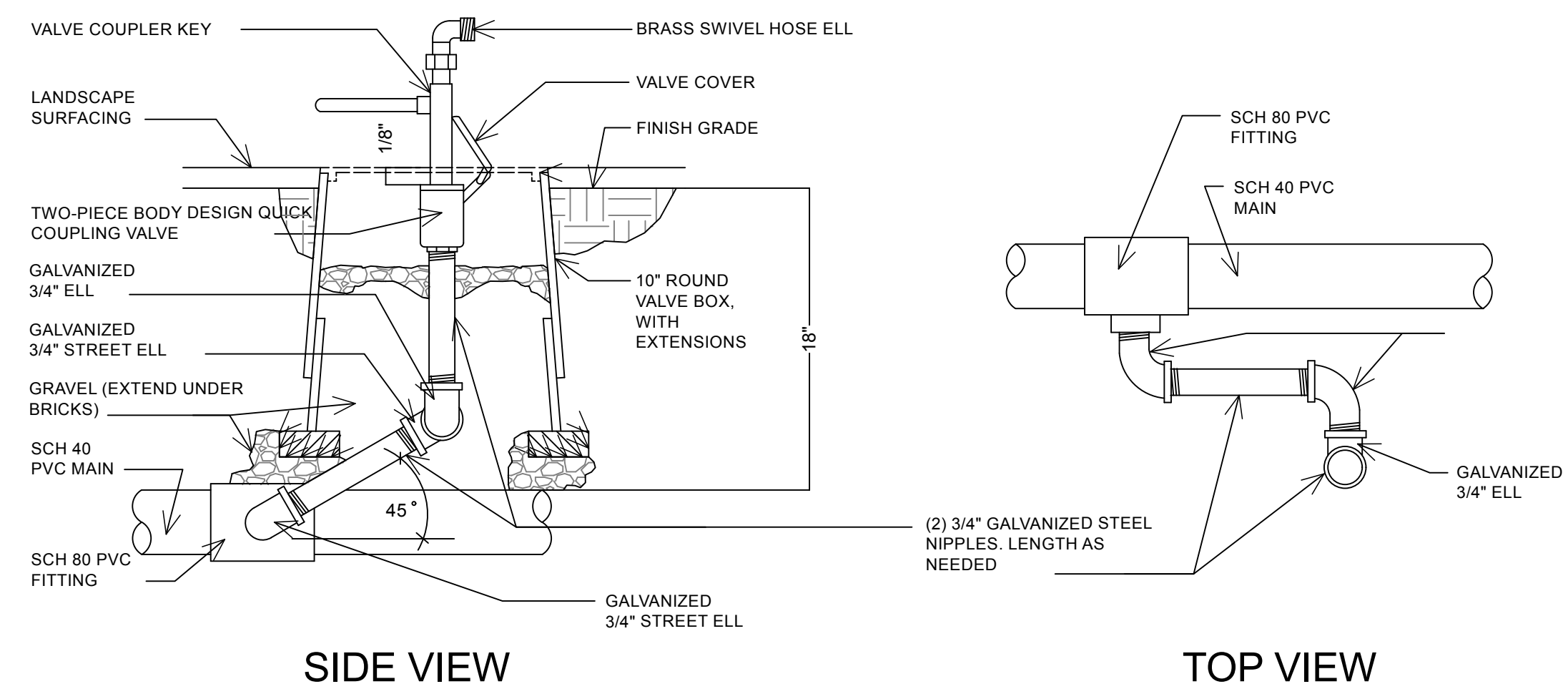
**E** FILTER ASSEMBLY ENCLOSURE  
NO SCALE



TOP VIEW



**D** AUTOMATIC FILTER ASSEMBLY WITH HYDROMETER  
NO SCALE



SIDE VIEW

TOP VIEW

**F** QUICK COUPLING VALVE  
NO SCALE



SANTAQUIN STAKE CENTER  
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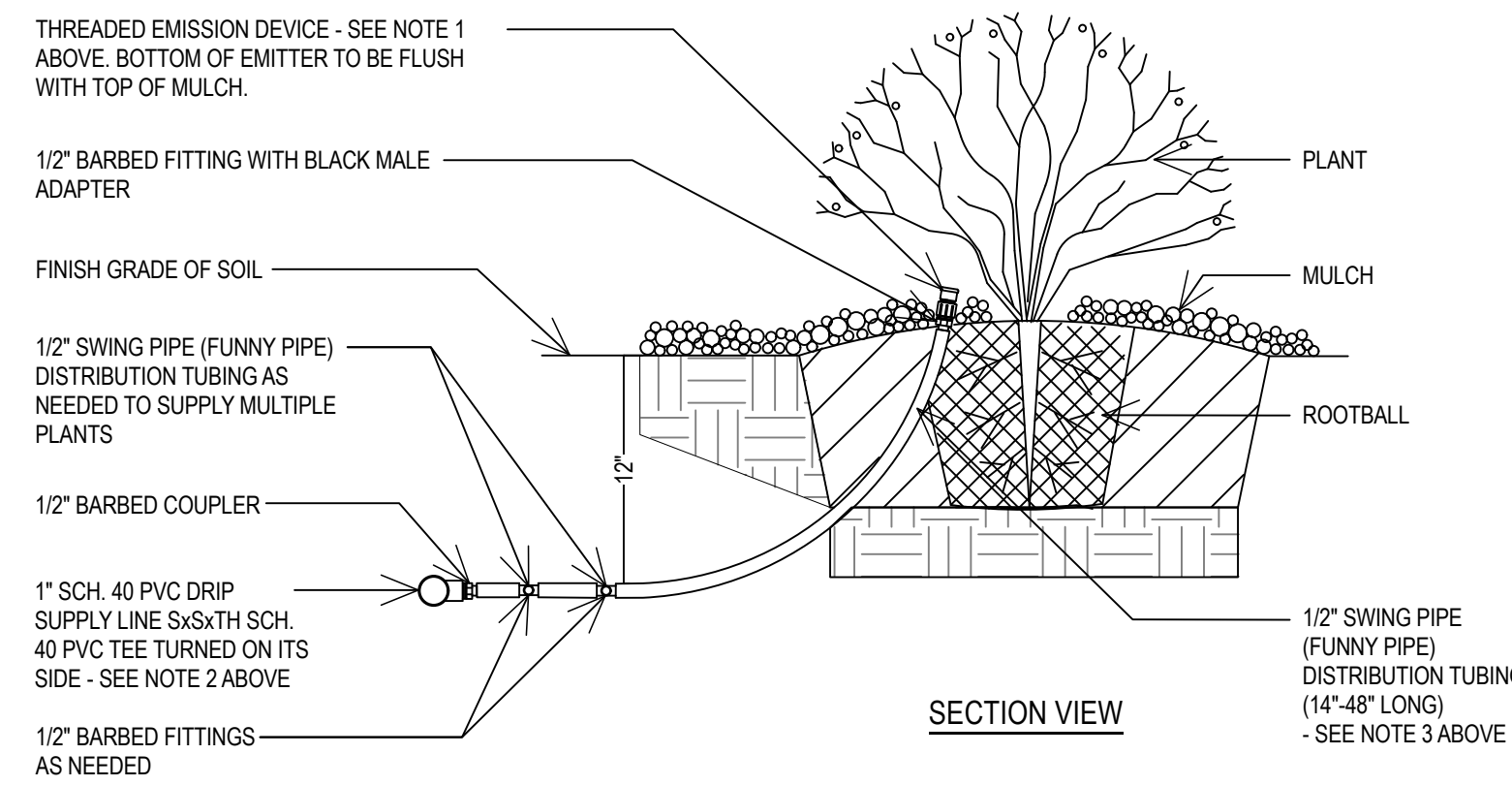
LANDSCAPE  
IRRIGATION  
DETAILS

**L503**

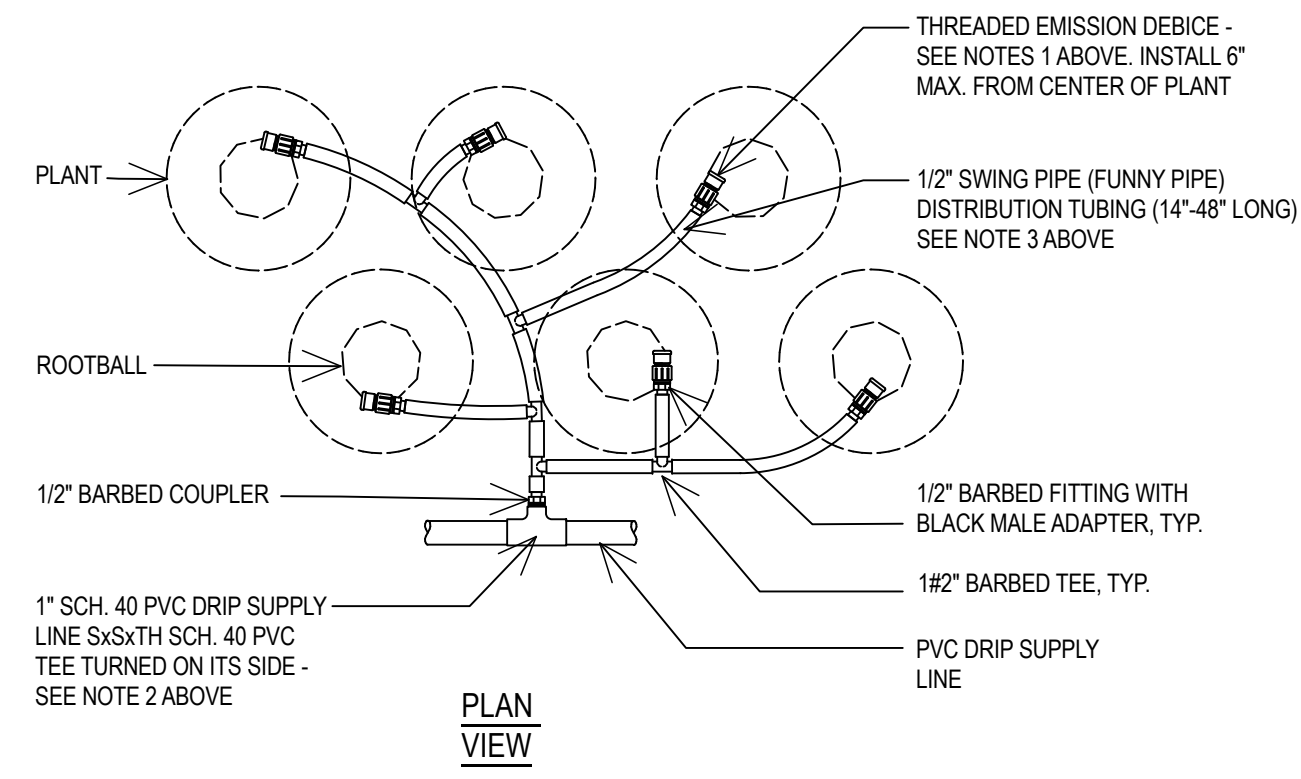


**NOTES:**

1. SEE EMISSION DEVICE SCHEDULE ON IRRIGATION PLAN FOR TYPE, QUANTITY AND SIZE OF EMISSION DEVICE PER PLANT.
2. INSTALL A MAX. OF (6) EMISSION DEVICES PER PVC CONNECTION.
3. DISTRIBUTION TUBING SHALL BE INSTALLED A MINIMUM OF 12" BELOW FINISHED GRADE AND ONLY BE BROUGHT TO THE SURFACE AT EACH PLANT.



**SECTION VIEW**



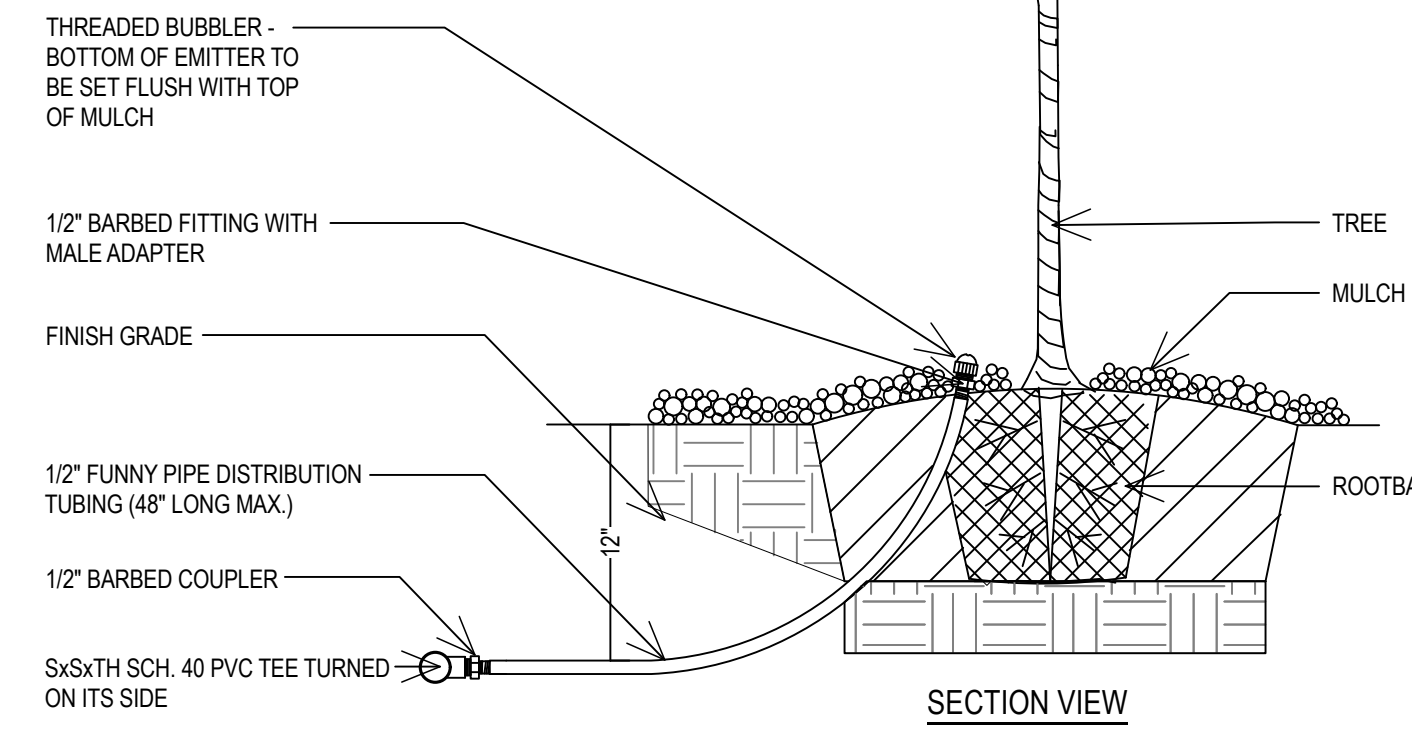
**PLAN VIEW**

**A DRIP EMISSION DEVICE @ SHRUBS**

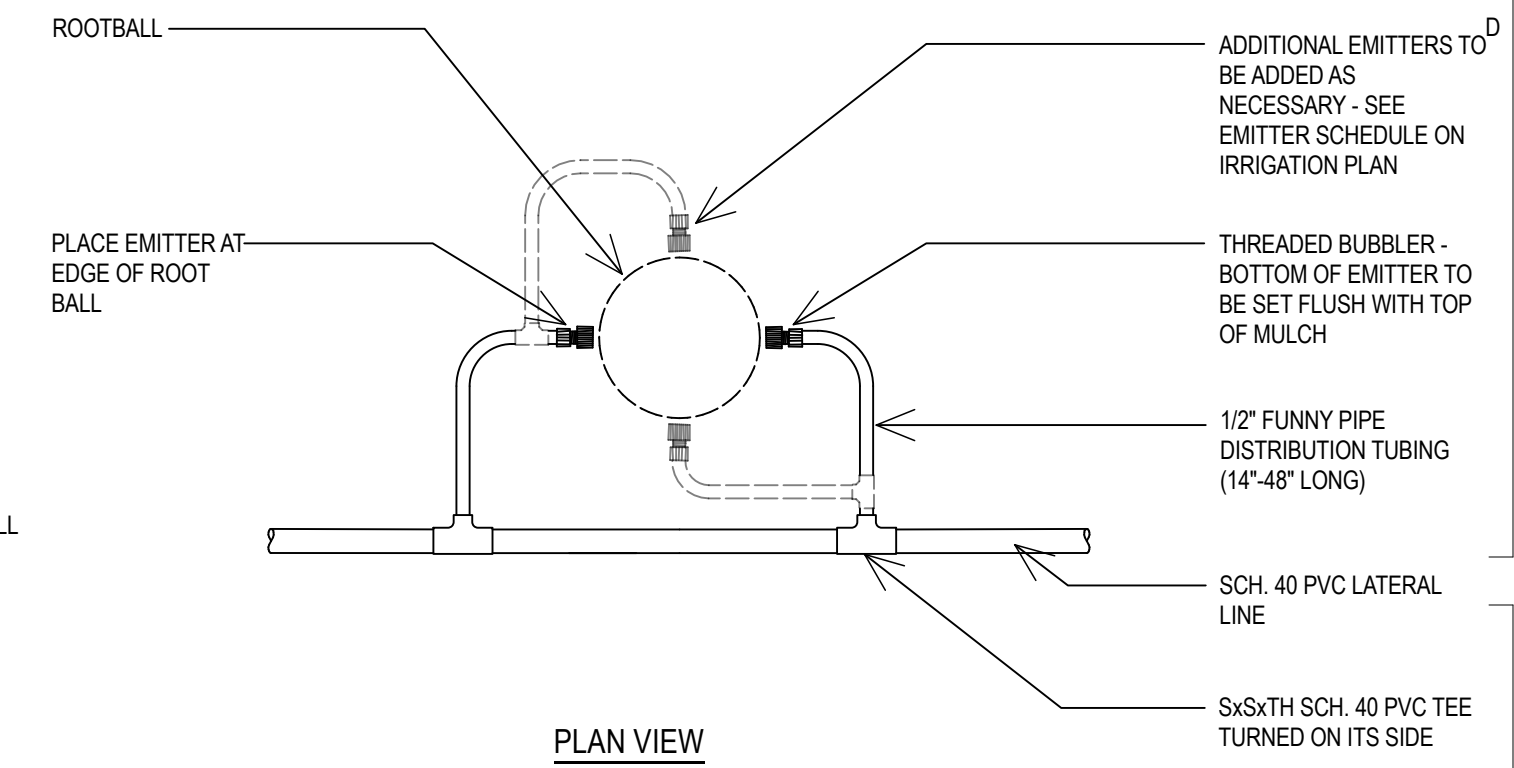
NO SCALE

**NOTES:**

1. THREADED EMITTER SHALL BE FROM GPH IRRIGATION PRODUCTS MODEL GPSTCV SPEC-CHECK PC 'DESERT CAMO' COLOR FOR ROCK AREAS AND 'MULCH CAMO' COLOR FOR BARK MULCH AREAS.
2. SEE EMITTER SCHEDULE ON IRRIGATION PLAN FOR QUANTITY AND SIZE OF EMITTERS PER PLANT.
3. INSTALL A MAX. OF (2) EMITTERS PER PVC CONNECTION.
4. DISTRIBUTION TUBING SHALL BE INSTALLED A MINIMUM OF 12" BELOW FINISHED GRADE AND ONLY BE BROUGHT TO THE SURFACE AT EACH PLANT.



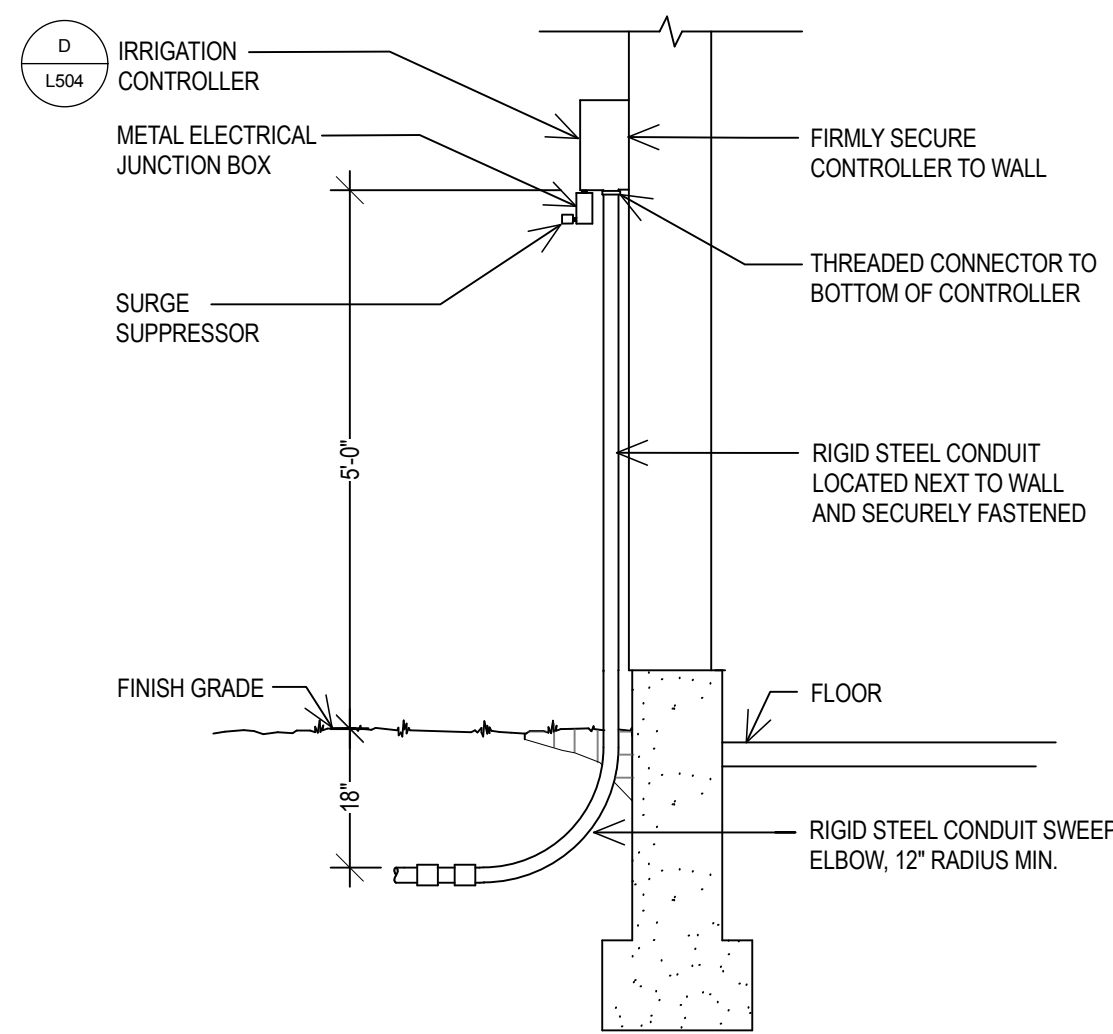
**SECTION VIEW**



**PLAN VIEW**

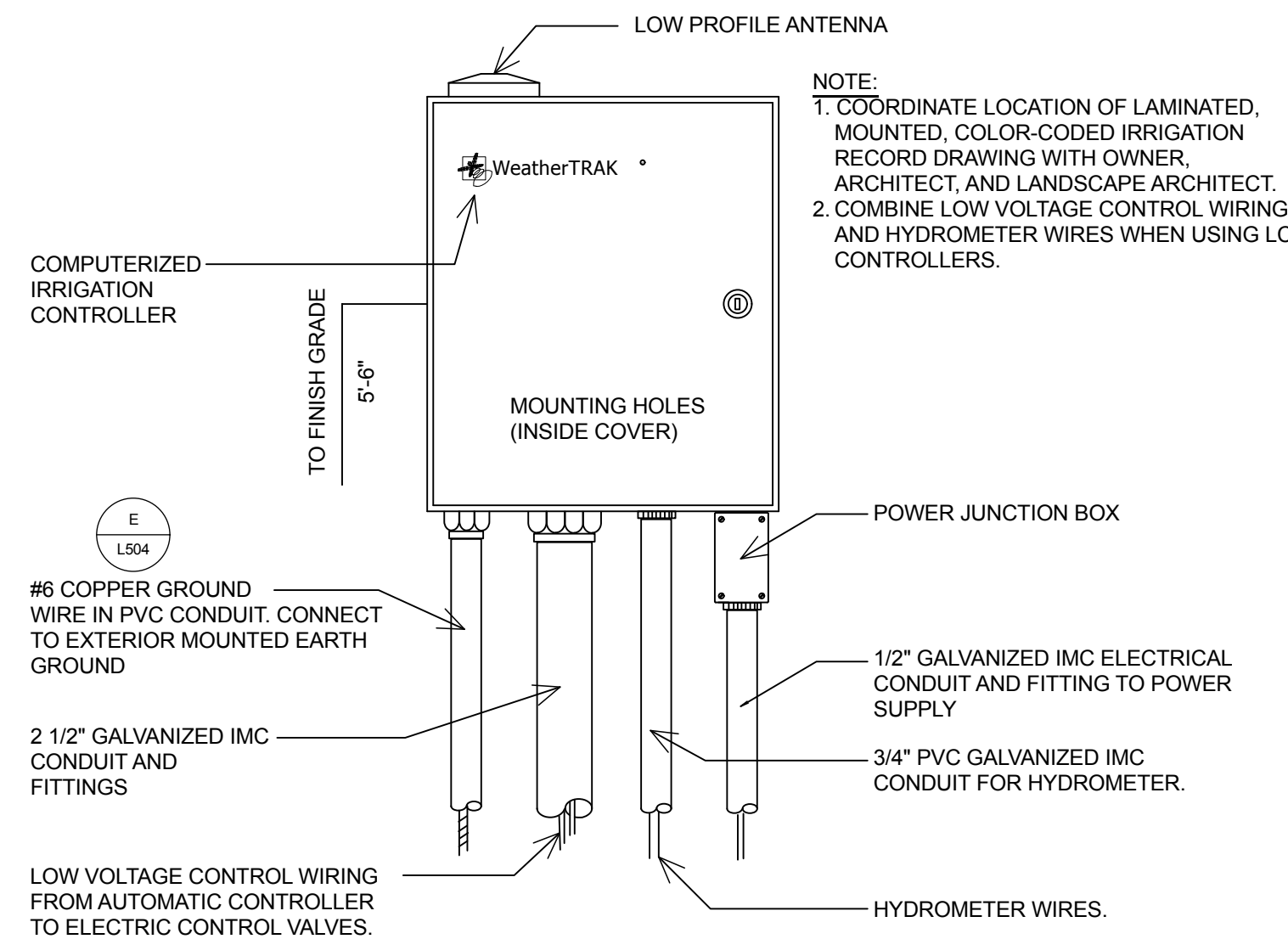
**B DRIP BUBBLER @ TREES**

NO SCALE



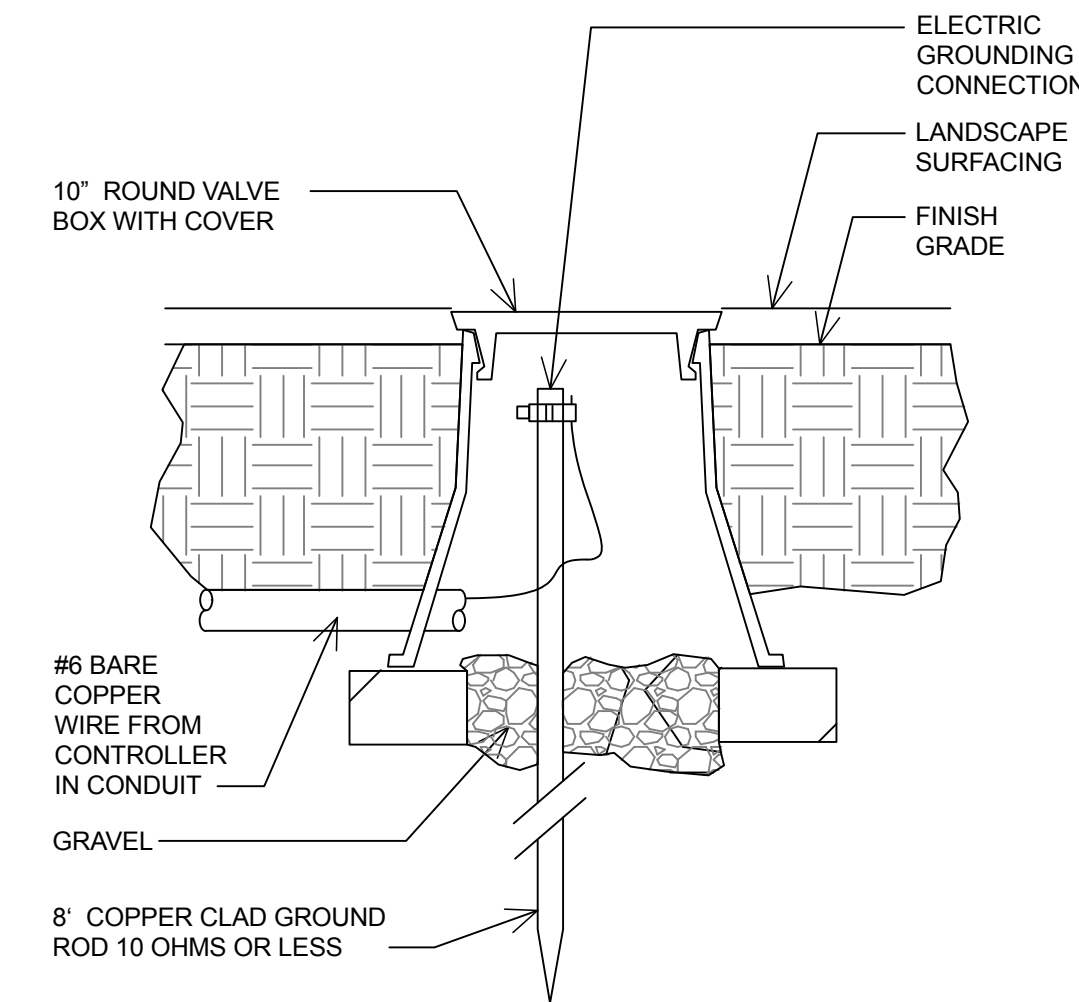
**C CONTROLLER**

NO SCALE



**D SMART CONTROLLER**

NO SCALE



**E LIGHTNING GROUNDING ROD**

NO SCALE



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**LANDSCAPE IRRIGATION DETAILS**

**L504**





**RSX1 LED Area Luminaire**



**Specifications**

EPA (H=90°): 0.57 ft<sup>2</sup> (0.05 m<sup>2</sup>)

Length: 21.8" (55.4 cm) (SPA mount)

Width: 13.3" (33.8 cm)

Height: 3.0" (7.6 cm) Main Body  
7.2" (18.4 cm) Arm

Weight (SPA mount): 22.0 lbs (10.0 kg)

**Introduction**

The new RSX LED Area family delivers maximum value by providing significant energy savings, long life and outstanding photometric performance at an affordable price. The RSX1 delivers 7,000 to 17,000 lumens allowing it to replace 70W to 400W HID luminaires.

The RSX features an integral universal mounting mechanism that allows the luminaire to be mounted on most existing drill hole patterns. This "no-drill" solution provides significant labor savings. An easy-access door on the bottom of mounting arm allows for wiring without opening the electrical compartment. A mast arm adaptor, adjustable integral slipfilter and other mounting configurations are available.

**design select**

Items marked by a shaded background qualify for the Design Select program and ship in 15 days or less. To learn more about Design Select, visit [www.uslighting.com/designselect](http://www.uslighting.com/designselect). See ordering section for details.

**CS** Design Select items indicated by this color background.

**Ordering Information**

EXAMPLE: RSX1 LED P4 40K R3 MVOILT SPA DDBXD

Series	Performance Package	Color Temperature	Distribution	Voltage	Mounting
RSX1 LED	P1	300K 3000K	R2 Type 2 wide	MVOILT (120V-277V)	SPA Square pole mounting (13.7" min. SQ pole for 1.4 at 90°, 1.5" min. SQ pole for 2, 3, 4 at 90°)
	P2	40K 4000K	R3 Type 3 deep	MVOILT (347V-480V)*	RPA Round pole mounting (2.7" min. dia. RND pole for 2, 3, 4 at 90°, 3.0" min. dia. RND pole for 1 at 90°, 2.0" min. dia. RND pole for 1 at 90°, 2.0" min. dia. RND pole for 1 at 90°)
	P3	50K 5000K	R4 Type 4 wide	ROBILT (277V-480V)*	MA Mast arm adaptor (fin. 2-3/8" OD horizontal finish)
	P4		R5 Type 5 shallow	WALA Wall bracket	WS Wall bracket
			R6 Type 6 deep	WASC Wall bracket with surface conduit box	WASC Wall bracket with surface conduit box
			R7 Type 7 deep	AKSP Adjustable 90° arm square pole mounting*	AKSP Adjustable 90° arm square pole mounting*
			R8 Type 8 deep	AKFP Adjustable 90° arm round pole mounting*	AKFP Adjustable 90° arm round pole mounting*
			R9 Type 9 deep	AMWB Adjustable 90° arm with wall bracket*	AMWB Adjustable 90° arm with wall bracket*
			R10 Type 10 deep	AMWSC Adjustable 90° arm with wall bracket and surface conduit box*	AMWSC Adjustable 90° arm with wall bracket and surface conduit box*

**Options**

Option	Description	Finish
SHIPPED INSTALLED	Shipped Installed	SHBK Dark Bronze
HS	House-side wiring	SHBL Black
PE	Pre-wired sensor cable**	SHAL Natural Aluminum
PERZ	Sensor-wire twist-lock receptacle only (no control)**	SHWH White
SF	Single face (180, 277, 347)	SHDZ Textured Dark Bronze
DF	Double face (180, 240, 480)	SHBLK Textured Black
SFDKRY	200V Surge pack (170V standard)	SHALZ Textured Natural Aluminum
FAO	Field adjustable output*	SHWGD Textured White
DMG	0-10V dimming system out back of housing for external control (sensor select required)	
	ESG External glare shield*	
	ESGV External glare shield (user 100° beam light optional)*	
	BS Bird spikes**	

One Lithonia Way • Corners, Georgia 30014 • Phone: 1-800-705-SERV (D378) • [www.uslighting.com](http://www.uslighting.com)

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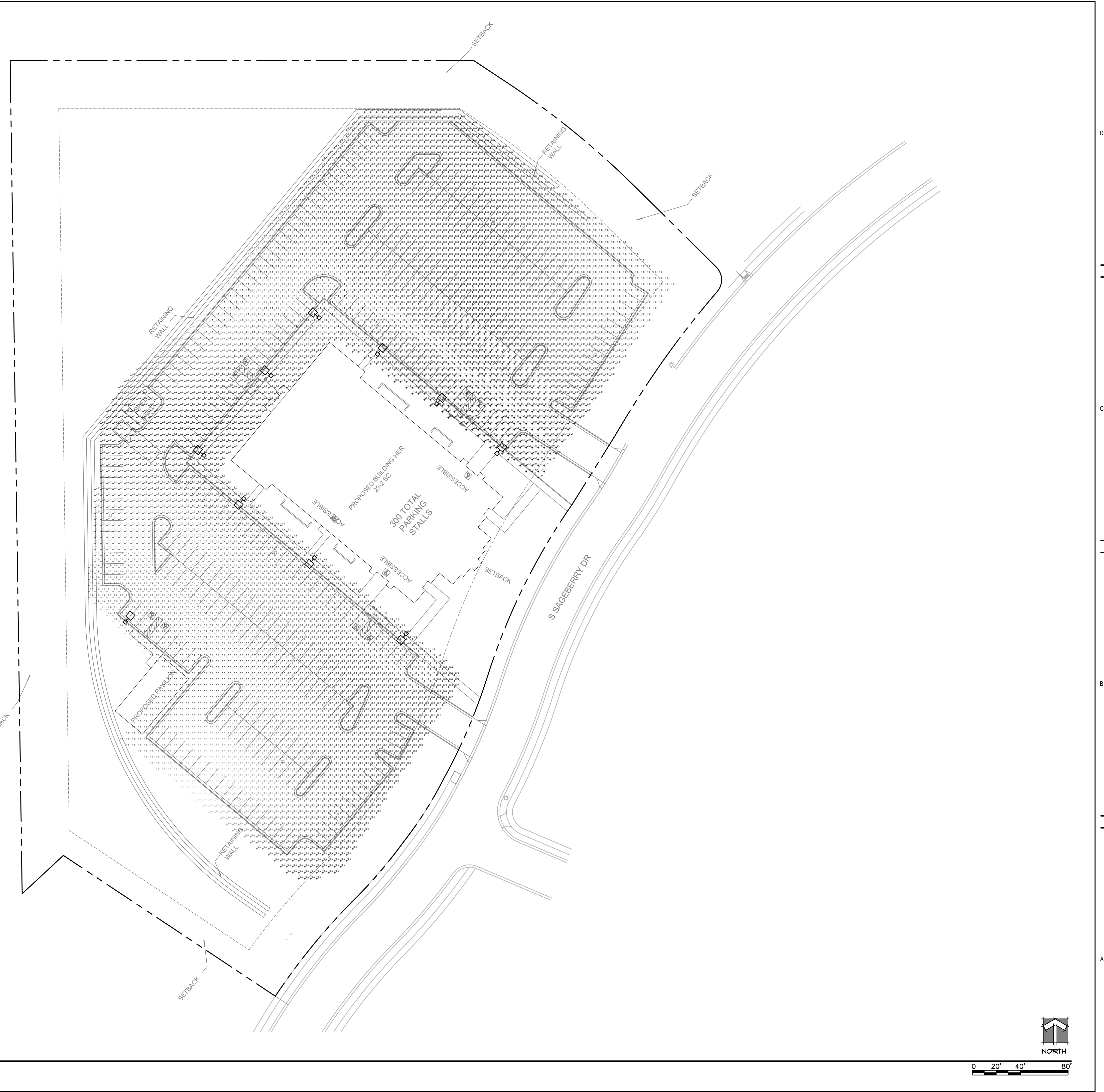
Lithonia RSX1 Area LED Rev. 10/20/24 Page 1 of 9

**Performance Data**

**Lumen Output**

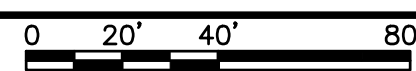
Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerance allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

Performance Package	System Name	Distribution Type	10000K (10-10)				4000K (10-10)				5000K (10-10)						
			Lumens	B	U	LPW	Lumens	B	U	LPW	Lumens	B	U	LPW			
P1	51W	R2	6482	1	0	1	126	7121	1	0	1	139	7121	1	0	1	139
		R3	6459	1	0	1	127	7086	1	0	1	139	7086	1	0	1	139
		R5	6631	1	0	1	129	7286	1	0	2	142	7286	1	0	2	142
		R4	6540	1	0	2	128	7189	1	0	2	141	7189	1	0	2	141
		R6S	6510	1	0	1	124	6996	1	0	1	136	6996	1	0	1	136
		R5	6631	3	0	2	130	7286	3	0	2	143	7286	3	0	2	143
		R5S	6807	3	0	1	133	7479	3	0	1	147	7479	3	0	1	147
		AFR	6473	1	0	1	127	7112	1	0	1	138	7112	1	0	1	138
		AFR90	6555	2	0	2	127	7179	2	0	2	140	7179	2	0	2	140
		AFR90	6562	2	0	1	128	7210	2	0	2	140	7210	2	0	2	140
P2	72W	R2	8991	2	0	1	173	9878	2	0	1	175	9878	2	0	1	175
		R3	8959	2	0	2	174	9883	2	0	2	175	9843	2	0	2	177
		R5	9198	2	0	2	176	10156	2	0	2	179	10156	2	0	2	179
		R4	9077	2	0	2	176	9972	2	0	2	179	9972	2	0	2	179
		R6S	8757	1	0	2	172	9622	2	0	2	174	9622	2	0	2	174
		R5	9198	4	0	2	178	10156	4	0	2	180	10156	4	0	2	180
		R5S	9443	3	0	1	171	10174	3	0	1	184	10174	3	0	1	184
		AFR	8979	2	0	1	175	9865	2	0	1	177	9865	2	0	1	177
		AFR90	9064	3	0	2	174	9959	3	0	2	177	9959	3	0	2	177
		AFR90	9102	3	0	2	175	10001	3	0	2	177	10001	3	0	2	177
P3	109W	R2	12,808	2	0	1	177	14,072	2	0	2	179	14,072	2	0	2	179
		R3	12,763	2	0	2	177	14,023	2	0	2	179	14,023	2	0	2	179
		R5	13,104	2	0	2	179	14,397	2	0	2	181	14,397	2	0	2	181
		R4	12,930	2	0	2	179	14,206	2	0	2	180	14,206	2	0	2	180
		R6S	12,475	2	0	2	174	13,707	2	0	2	176	13,707	2	0	2	176
		R5	13,104	4	0	2	179	14,397	4	0	2	181	14,397	4	0	2	181
		R5S	13,452	3	0	2	173	14,779	3	0	2	176	14,779	3	0	2	176
		AFR	12,791	2	0	1	177	14,053	2	0	2	179	14,053	2	0	2	179
		AFR90	12,913	3	0	1	178	14,187	3	0	1	180	14,187	3	0	1	180
		AFR90	13,261	3	0	2	178	14,547	3	0	2	180	14,547	3	0	2	180
P4	133W	R2	14,943	2	0	2	172	16,417	2	0	2	173	16,417	2	0	2	173
		R3	14,890	2	0	3	172	16,360	2	0	3	173	16,360	2	0	3	173
		R5	15,207	2	0	2	175	16,796	2	0	2	176	16,796	2	0	2	176
		R4	15,085	2	0	3	173	16,574	2	0	3	175	16,574	2	0	3	175
		R6S	14,554	2	0	2	169	15,991	2	0	2	170	15,991	2	0	2	170
		R5	15,207	4	0	2	175	16,796	4	0	2	176	16,796	4	0	2	176
		R5S	15,681	4	0	2	178	17,242	4	0	2	180	17,242	4	0	2	180
		AFR	14,923	2	0	2	172	16,395	2	0	2	173	16,395	2	0	2	173
		AFR90	15,095	3	0	3	173	16,551	3	0	3	174	16,551	3	0	3	174
		AFR90	15,178	3	0	3	174	16,621	3	0	3	175	16,621	3	0	3	175



**A1 PHOTOMETRIC SITE PLAN**

SCALE: 1" = 40'



File Name: P:\2024\240761\Drawings\2Sheet\6\ES101P.dwg Last Plotted: 2024/12/02 @ 12:30 PM By: rxr