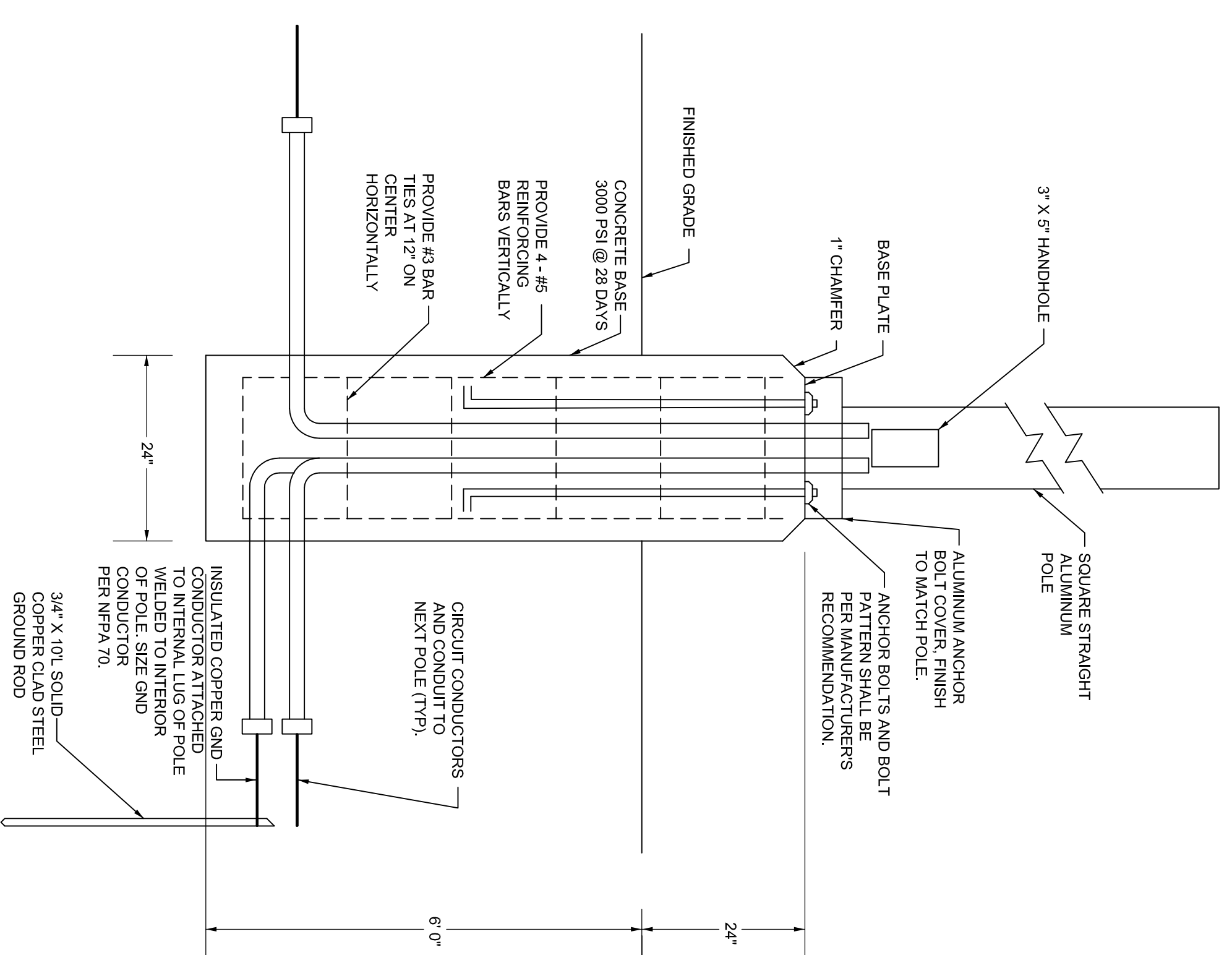
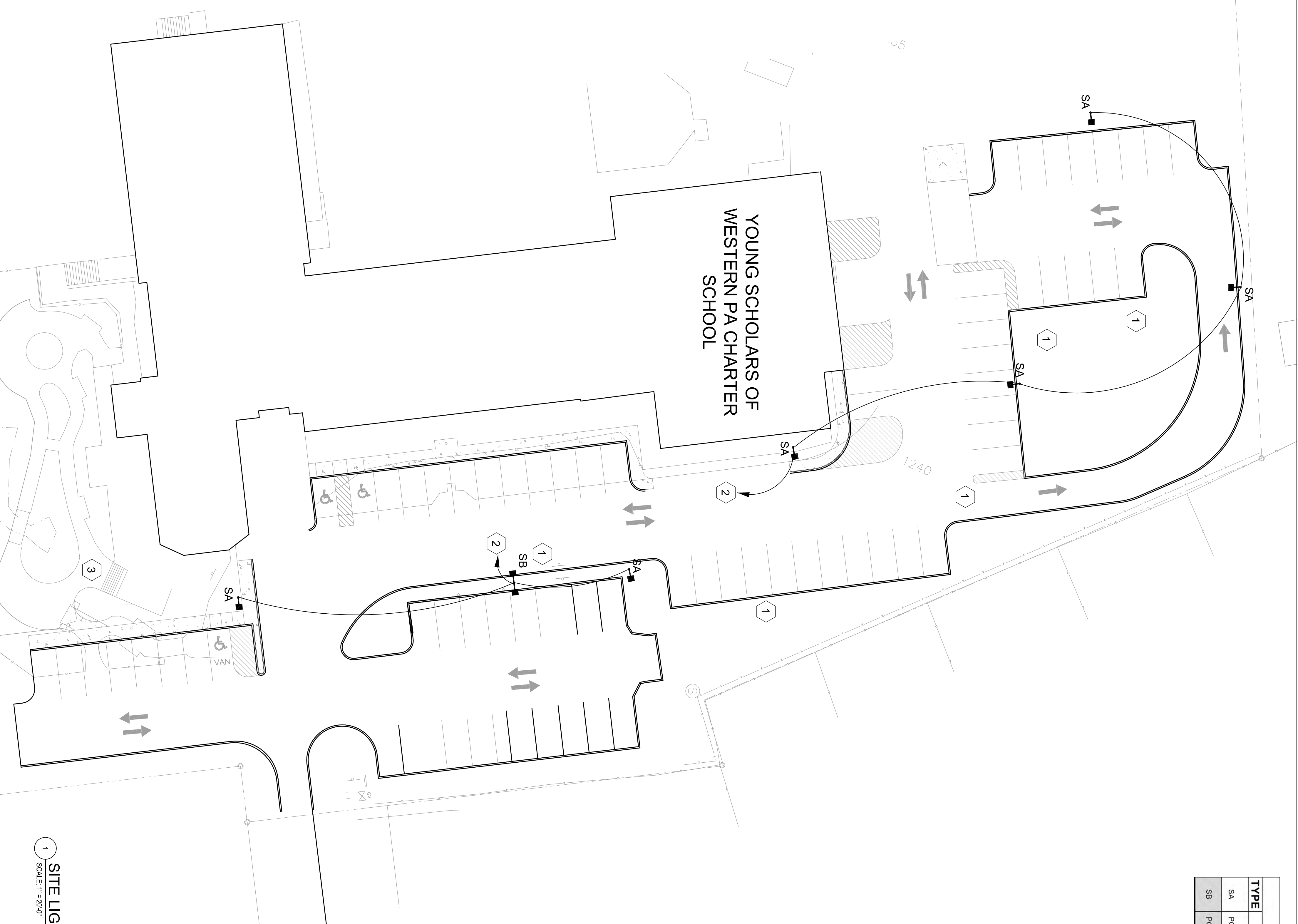






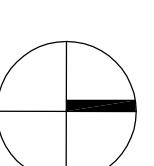
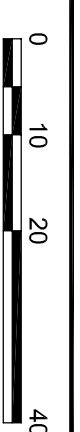
SITE LIGHTING FIXTURE SCHEDULE						
TYPE	DESCRIPTION	MANUF	CATALOG NUMBER	LAMPS	VOLTAGE	REMARKS
SA	POLE MOUNTED SITE LIGHTING FIXTURE	UTRONA	KAD250W/H/3; 20; 5'P; 06'H; 55; A18; DW19 OR PRE-APPROVED EQUAL	1-250W / 59MH	120	
SB	POLE MOUNTED SITE LIGHTING FIXTURE	UTRONA	KAD250W/H/3; 20; 5'P; 06'H; 55; A18; DW19 OR PRE-APPROVED EQUAL	2-250W / 59MH	120	

- NOTES:
- ① INDICATES EXISTING FIXTURE, BASE, ETC TO BE REMOVED. REMOVE EXISTING FEEDER TO POINT WHERE IT CAN BE REUSED TO SERVE THE NEW LIGHT FIXTURES SHOWN.
  - ② CONNECT THE NEW LIGHTING FIXTURES SHOWN TO THE EXISTING CIRCUIT PRESENTLY SERVING THE PARKING LOT LIGHTING. PROVIDE ANY EXTERIOR GRADE JUNCTION BOXES NECESSARY FOR A COMPLETE OPERATING SYSTEM. WIRE SIZE OF ENTIRE CIRCUIT SHALL BE 3 #8 IN 1" PVC CONDUIT.
  - ③ INDICATES AN EXISTING LIGHT FIXTURE TO REMAIN. THE ELECTRICAL CONTRACTOR SHALL MAINTAIN CONTINUITY TO THE FIXTURE THROUGHOUT CONSTRUCTION.



2 POLE BASE DETAIL  
NO SCALE

1 SITE LIGHTING  
SCALE: 1" = 20'-0"



**L.R. Kimball**  
ARCHITECTURE - ENGINEERING - COMMUNICATIONS TECHNOLOGY  
A CDI Company

615 West Highland Ave.  
Ebensburg, Pa. 15931  
phone (814) 472-7700  
fax (814) 472-7712  
web site www.lrkimball.com

CONSULTANTS:

PROJECT NAME:  
**YOUNG SCHOLARS  
PARKING LOT  
PROJECT**

BALDWIN TOWNSHIP  
ALLEGHENY COUNTY, PA  
DEVELOPER:

YOUNG SCHOLARS  
WESTERN PA CHARTER SCHOOL  
600 NEWPORT DRIVE  
BALDWIN TOWNSHIP, PA 15234

REV.	DATE	DESCRIPTION
2	4/28/14	LIGHTING REVISIONS
1	3/11/14	CONSTRUCTION DOCUMENTS

ISSUE: 1/16/2014  
PROJECT NO.: 13-2200-0236  
SCALE: AS NOTED  
DRAWN BY: MAK  
CHECKED BY: GJS

© CDI Infrastructure, LLC dba L.R. Kimball  
SHEET TITLE

SITE LIGHTING  
PLAN

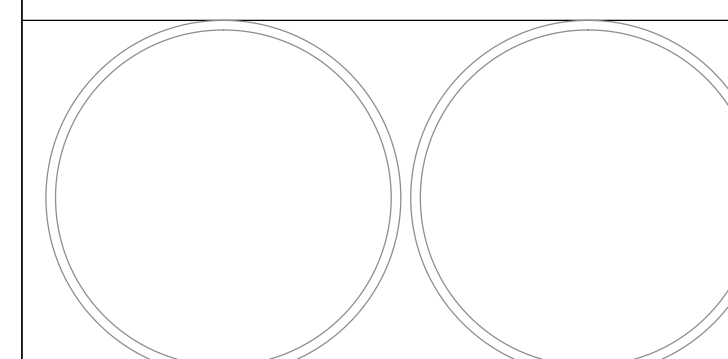
**E101**

CONSULTANTS:

PROJECT NAME:  
**YOUNG SCHOLARS  
PARKING LOT  
PROJECT**

BALDWIN TOWNSHIP  
ALLEGHENY COUNTY, PA  
DEVELOPER:

YOUNG SCHOLARS  
WESTERN PA CHARTER SCHOOL  
600 NEWPORT DRIVE  
BALDWIN TOWNSHIP, PA 15234



REV.	DATE	DESCRIPTION
1	3/10/14	CONSTRUCTION DOCUMENTS





© CDI Infrastructure, LLC dba L.R. Kimball

SHEET TITLE

EXISTING CONDITIONS  
PLAN

**C000**

**LEGEND:**

-  TREE/SHRUB
-  TREE/SHRUB LINE
-  INTERMEDIATE CONTOUR
-  INDEX CONTOUR

SURVEY COMPLETED ON OCT 23, & NOV. 19, 2013  
HORIZ. DATUM PA STATE PLANE SOUTH NAD 83  
VERT. DATUM NAVD 88



**1** EXISTING CONDITIONS PLAN  
SCALE: 1" = 30'

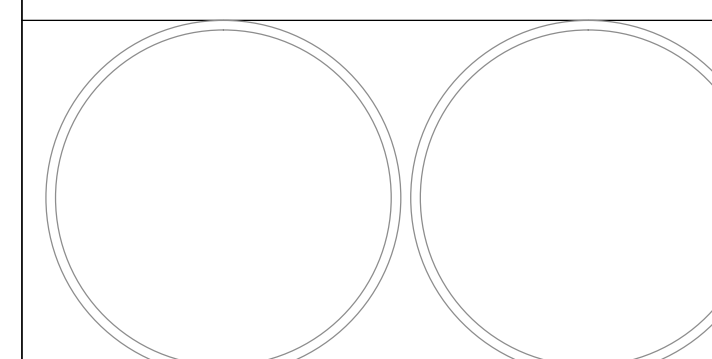


CONSULTANTS:

PROJECT NAME:  
**YOUNG SCHOLARS  
PARKING LOT  
PROJECT**

BALDWIN TOWNSHIP  
ALLEGHENY COUNTY, PA  
DEVELOPER:

YOUNG SCHOLARS  
WESTERN PA CHARTER SCHOOL  
600 NEWPORT DRIVE  
BALDWIN TOWNSHIP, PA 15234



REV.	DATE	DESCRIPTION
1	3/11/14	CONSTRUCTION DOCUMENTS

© CDI Infrastructure, LLC dba L.R. Kimball

SHEET TITLE

**SITE DEMOLITION  
PLAN**

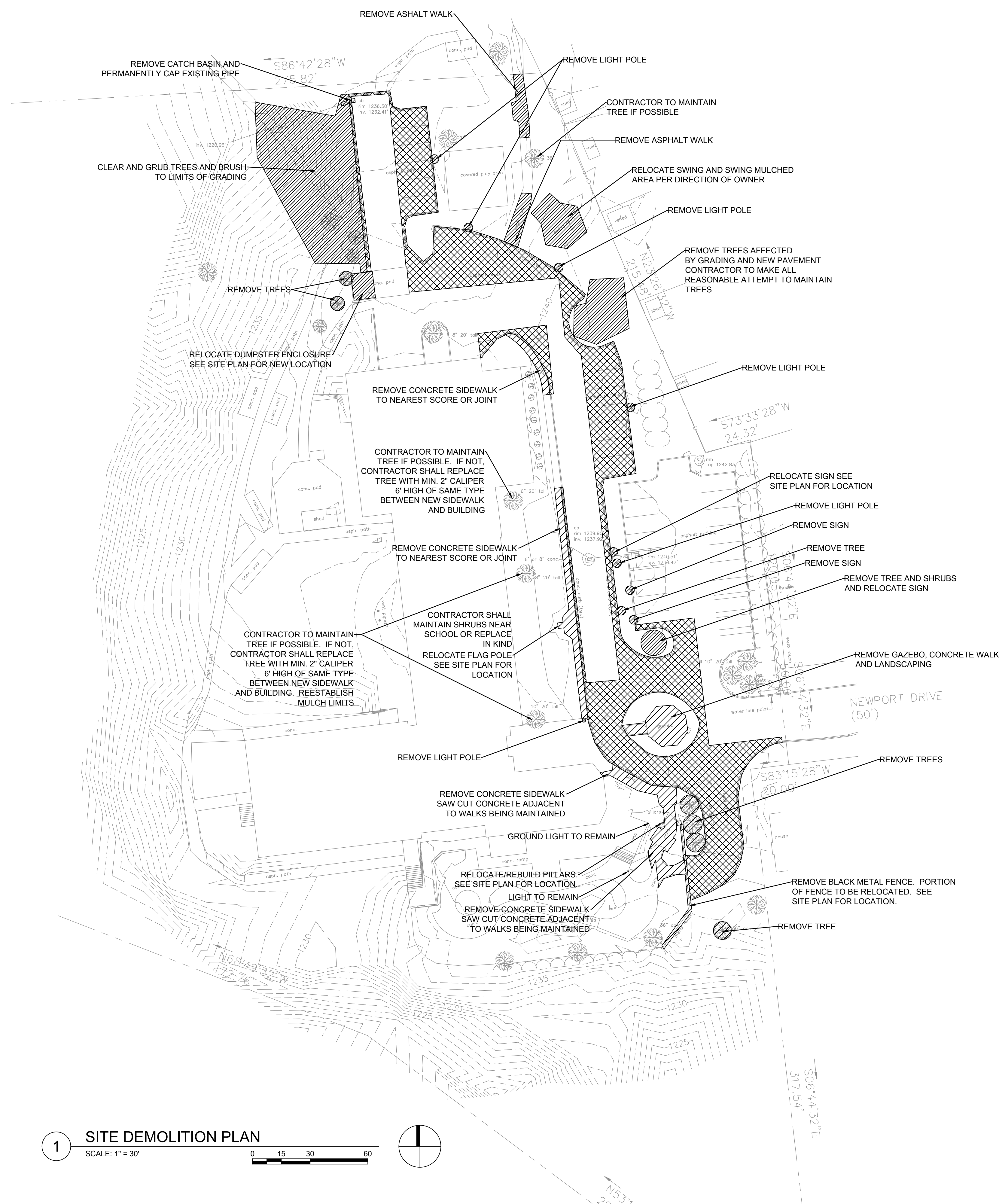
**C100**

**DEMOLITION PLAN NOTES:**

1. Refer to Electrical Drawings for exterior site lighting demolition and new pole locations.
2. No material shall be stored or piled with 25'-0" of the trunks of any tree to remain.
3. The limits of site demolition shown on this plan are approximate. Contractor shall verify all existing conditions, prior to proceeding with work, and adjust the limits as necessary to complete the required work.
4. Contractor shall make every reasonable effort to save trees located close to the proposed work.
5. Contractor shall remove items in their entirety, including underground features.
6. See Site Plan for additional items to be removed.

**DEMOLITION PLAN LEGEND:**

- PAVEMENT AND CURB TO BE REMOVED
- ITEM TO BE REMOVED REFER TO PLAN FOR DESCRIPTION



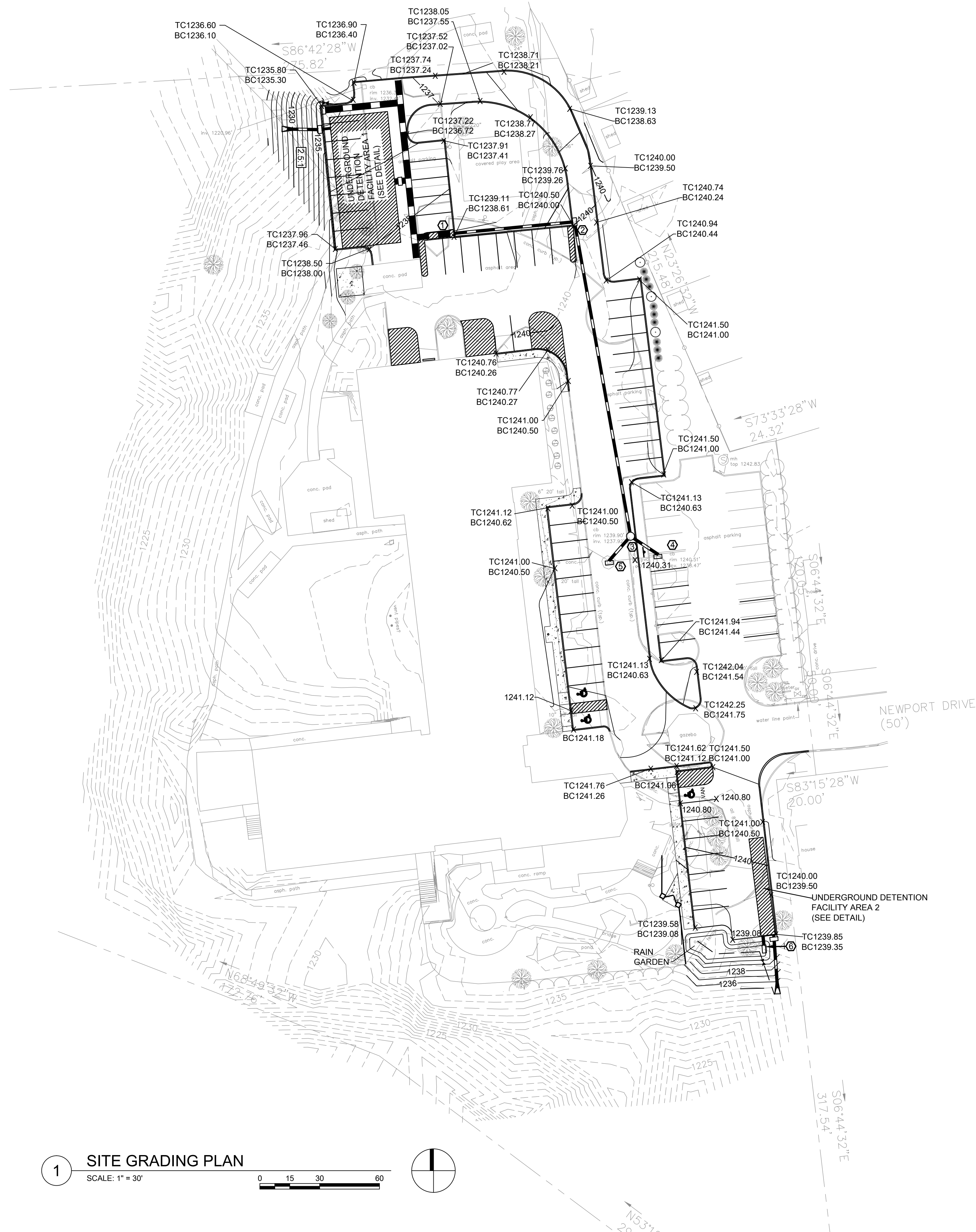
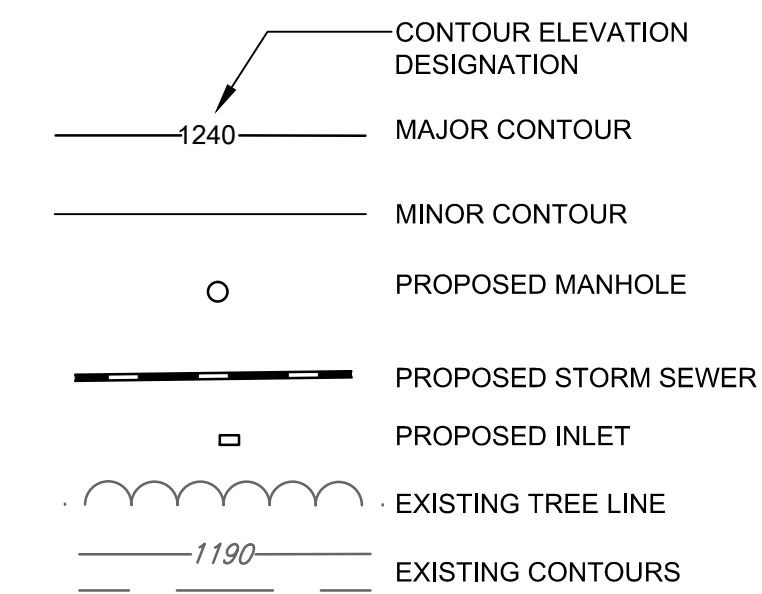




**SITE GRADING PLAN NOTES:**

- The Contractor shall compact pipe backfill in max. 8" loose lifts to 95% of the maximum dry density per ASTM D1557 according to the pipe bedding details. Trench bottom shall be stable in high groundwater areas.
- Topsoil shall be stripped and stockpiled for use in final landscaping.
- Unless otherwise indicated at a specific location, all finished grades are to conform to and match existing grades.
- The Contractor shall restore any structure, pipe, utility, pavement, curbs, sidewalks, landscaped areas, etc. disturbed during construction to the original condition or better.
- The Contractor shall submit shop drawings of materials and structures for review and approval prior to fabrication.
- The Contractor shall preserve existing vegetation where possible and/or as noted on the drawings.
- Refer to the Erosion and Sedimentation Control Plan for the limit of disturbance and notes.
- The Contractor is responsible for the removal and disposal of all rubbish, trash, debris, and organic material in a lawful manner.
- The Contractor shall be advised that all excavation is considered unclassified and that it shall be responsible for all means, methods, and materials of construction to complete construction as designed. Additionally, the Contractor shall be responsible for the off-site disposal of any and all excess or unsuitable material unable to be placed on site and the importation of any borrow material necessary to complete the job.
- Site grading shall be performed to provide positive drainage to catch basins and to preclude the ponding of water on the site.
- Verify required spot elevations/grading in the vicinity of the buildings with the existing conditions.
- All slopes shall be 3:1 or flatter unless otherwise specified. All slopes greater than 3:1 shall be stabilized with erosion control blanketing.
- Existing and proposed grades shown at 1' contour intervals.
- Contractor shall adjust and/or cut existing pavement as needed to ensure smooth fit and continuous grade.
- Contractor shall ensure positive drainage away from buildings.
- Sidewalks shall have a maximum 2.0% cross slope.

**SITE GRADING PLAN LEGEND:**



A CDI Company

615 West Highland Ave.  
Ebensburg, Pa. 15931

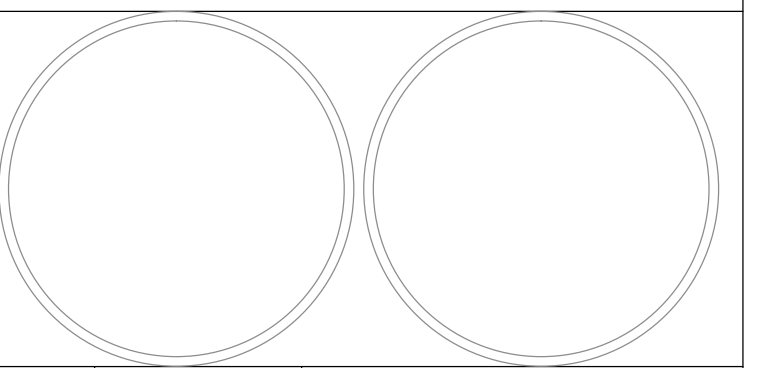
phone (814) 472-7700  
fax (814) 472-7712  
web site www.lrkimball.com

CONSULTANTS:

PROJECT NAME:  
**YOUNG SCHOLARS  
PARKING LOT  
PROJECT**

BALDWIN TOWNSHIP  
ALLEGHENY COUNTY, PA  
DEVELOPER:

YOUNG SCHOLARS  
WESTERN PA CHARTER SCHOOL  
600 NEWPORT DRIVE  
BALDWIN TOWNSHIP, PA 15234



REV.	DATE	DESCRIPTION
1	3/11/14	CONSTRUCTION DOCUMENTS

ISSUE: 1/16/2014  
PROJECT NO: 13-2200-0236  
SCALE: 1" = 30'  
DRAWN BY: MAK  
CHECKED BY: GLS

© CDI Infrastructure, LLC dba L.R. Kimball

SHEET TITLE

**SITE GRADING  
PLAN**

**C120**



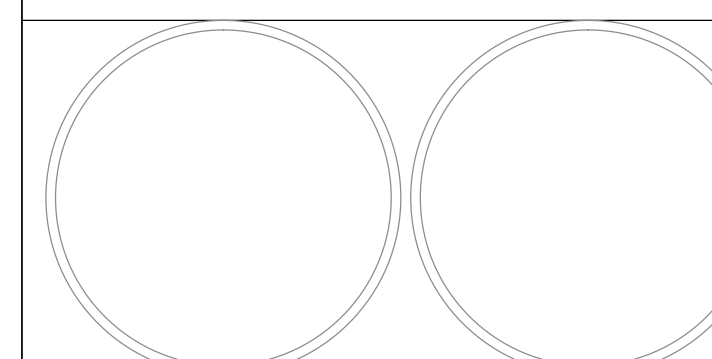
CONSULTANTS:

PROJECT NAME:  
**YOUNG SCHOLARS  
PARKING LOT  
PROJECT**

BALDWIN TOWNSHIP  
ALLEGHENY COUNTY, PA  
DEVELOPER:

YOUNG SCHOLARS  
WESTERN PA CHARTER SCHOOL

600 NEWPORT DRIVE  
BALDWIN TOWNSHIP, PA 15234



REV.	DATE	DESCRIPTION
1	3/11/14	CONSTRUCTION DOCUMENTS
ISSUE:	1/16/2014	
PROJECT NO:	13-2200-0236	
SCALE:	1" = 30'	
DRAWN BY:	MAK	
CHECKED BY:	GLS	

© CDI Infrastructure, LLC dba L.R. Kimball

SHEET TITLE

SITE UTILITY  
PLAN

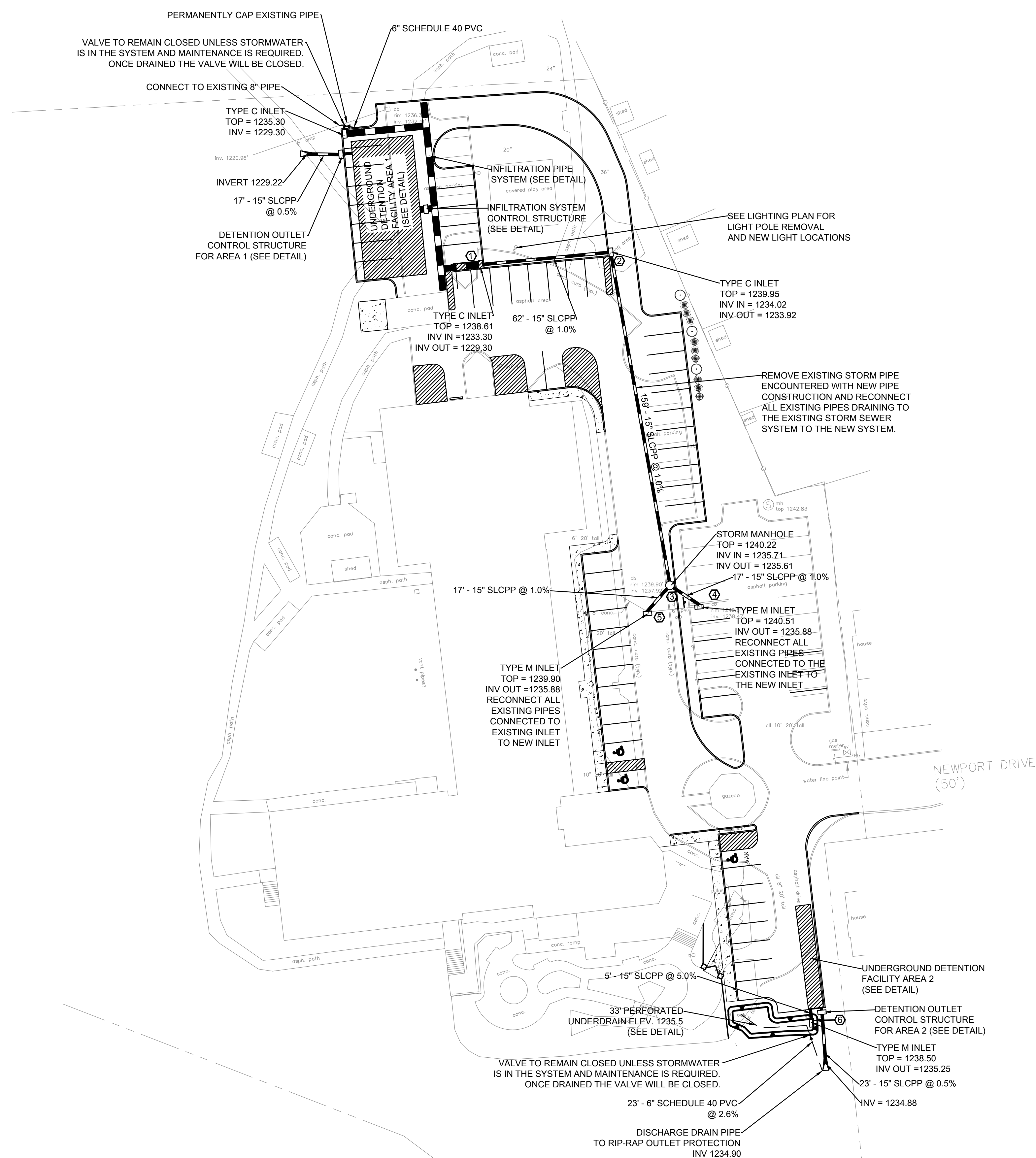
**C130**

**UTILITY PLAN NOTES:**

- See electrical plans for light pole information.
- Storm sewer pipes shall be laid on straight alignments and even grades using a pipe laser or other accurate method.
- Site Contractor shall provide all bends, fittings, adapters, etc. as required for pipe connections.
- All valve lids, manholes, inlet tops, etc. affected or set by the construction shall be adjusted to finish grade elevation.
- All fill materials to be in place and compacted before installation of proposed utilities.
- Underground lines shall be installed, inspected and approved before backfilling.
- Existing utilities shall be verified in field prior to installation of any new lines.
- The contractor is specifically cautioned that the location and/or elevation of existing utilities as shown on these plans is based on records of the various utility companies, and where possible, measurements taken in the field. The information is not to be relied on as being exact or complete. The contractor must call the appropriate utility companies at least 72 hours before any excavation to request exact field location of utilities. It shall be the responsibility of the contractor to relocate all existing utilities which conflict with the proposed improvements shown on the plans.
- Contractor is responsible for all necessary inspections and/or certifications required by codes and/or utility companies.
- Valve for the rain garden and storm infiltration system shall be a commercial valve that extends to grade for ease of maintenance/draining operations in difficult weather conditions.

**UTILITY PLAN LEGEND:**

- PROPOSED MANHOLE
- PROPOSED STORM SEWER
- PROPOSED INLET
- STORM SEWER STRUCTURE ID
- VALVE AND VALVE BOX
- HDPE END SECTION





## CONSTRUCTION SEQUENCE

1. Each step in the construction sequence shall be completed before initiation of the next step.
2. Install inlet protection to existing inlets and install silt fences as shown on the plans.
3. Contractor shall provide additional erosion and sedimentation control devices as necessary based on site conditions and weather patterns during construction.
4. If at any time during construction sediment laden water cannot be diverted to the silt fences or inlet protection it must be pumped through a filter bag facility such as the one shown on the Erosion and Sediment Control Detail sheet before being discharged to the existing storm system.
5. Stabilize all areas disturbed with the erosion and sedimentation controls.
6. Clear and grub the area to the north of the existing building where the parking lot will be added and remove all trees as shown on the demolition plan. Relocate the existing swings as directed by the owner.
7. Remove all items as shown on the demolition plan.
8. Install the underground detention facilities and infiltration pipe system including outlet protection.
9. Construct the rain garden on the south end of the site.
10. Install the storm sewers beginning at the downstream end of the system and working upstream. Install inlet protection to inlets as they are installed.
11. Construct the pavement courses and sidewalks.
12. Stabilize all areas not previously stabilized with seed and mulch.
13. 70% uniform permanent vegetative cover over the entire site must be established in all tributary areas before erosion and sedimentation BMP's can be removed. Once vegetated, temporary controls may be removed.

## LEGEND

- LIMIT OF DISTURBANCE
- SILT FENCE
- ⊗ INLET PROTECTION
- ▲ RIP RAP OUTLET PROTECTION AND IDENTIFICATION

A CDI Company

615 West Highland Ave.  
Ebensburg, Pa. 15931

phone (814) 472-7700  
fax (814) 472-7712  
web site www.lrkimball.com

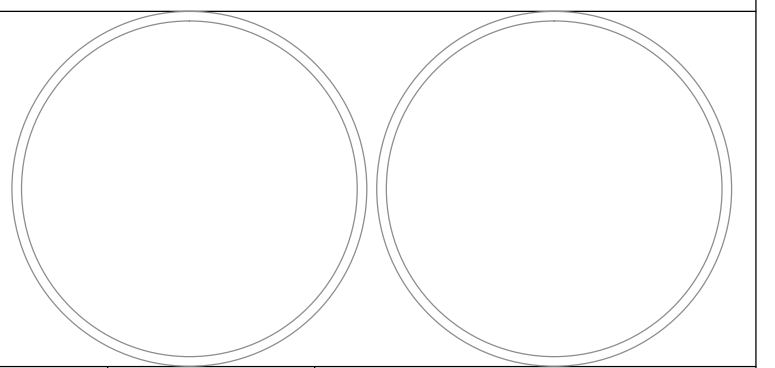
CONSULTANTS:

PROJECT NAME:  
**YOUNG SCHOLARS  
PARKING LOT  
PROJECT**

BALDWIN TOWNSHIP  
ALLEGHENY COUNTY, PA  
DEVELOPER:

YOUNG SCHOLARS  
WESTERN PA CHARTER SCHOOL

600 NEWPORT DRIVE  
BALDWIN TOWNSHIP, PA 15234



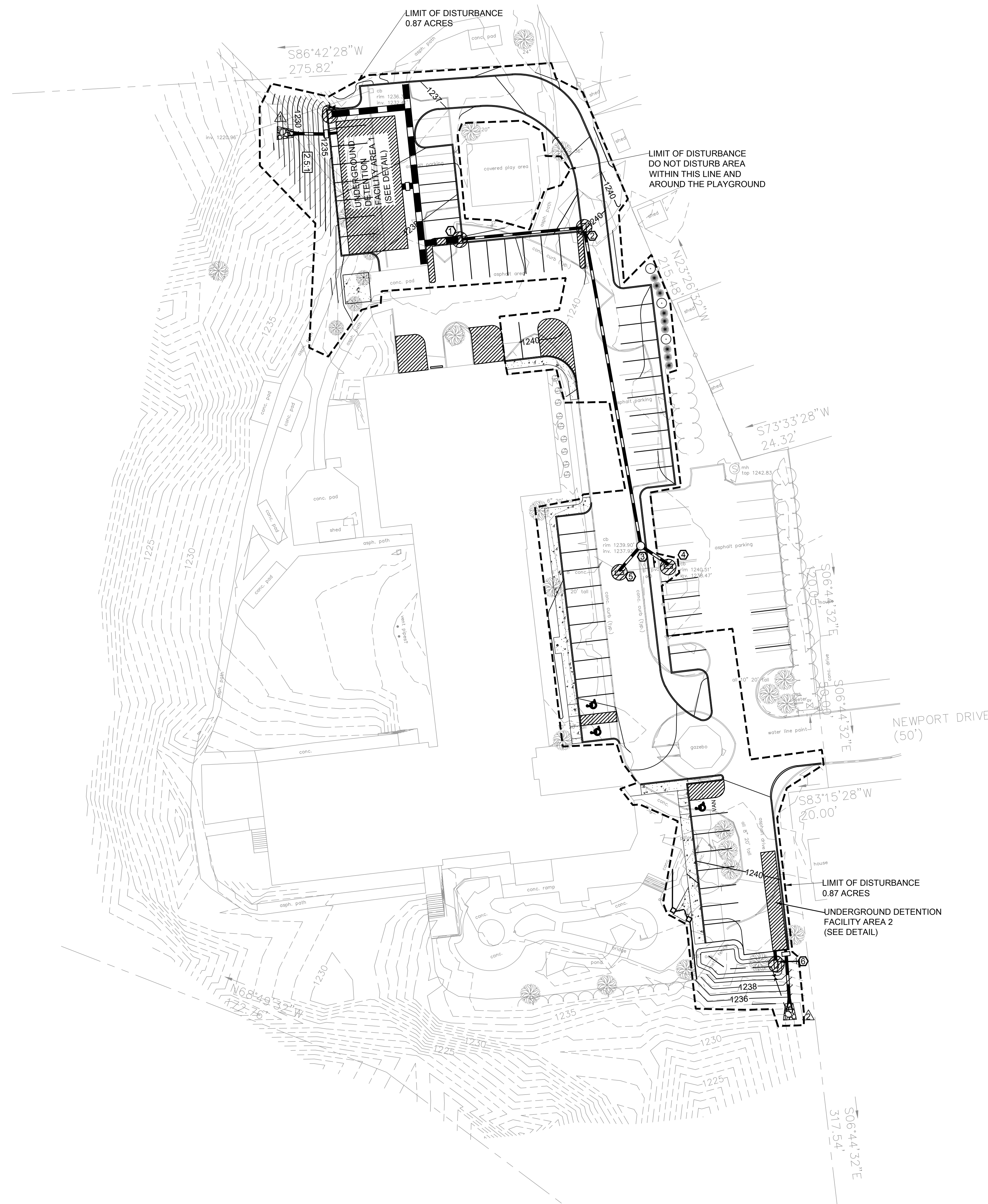
REV.	DATE	DESCRIPTION
1	3/11/14	CONSTRUCTION DOCUMENTS
ISSUE:	1/16/2014	
PROJECT NO:	13-2200-0236	
SCALE:	1" = 30'	
DRAWN BY:	MAK	
CHECKED BY:	GLS	

© CDI Infrastructure, LLC dba L.R. Kimball

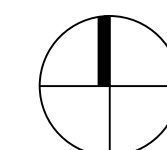
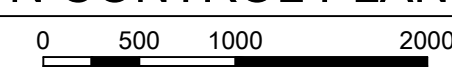
SHEET TITLE

**EROSION AND  
SEDIMENTATION  
CONTROL PLAN**

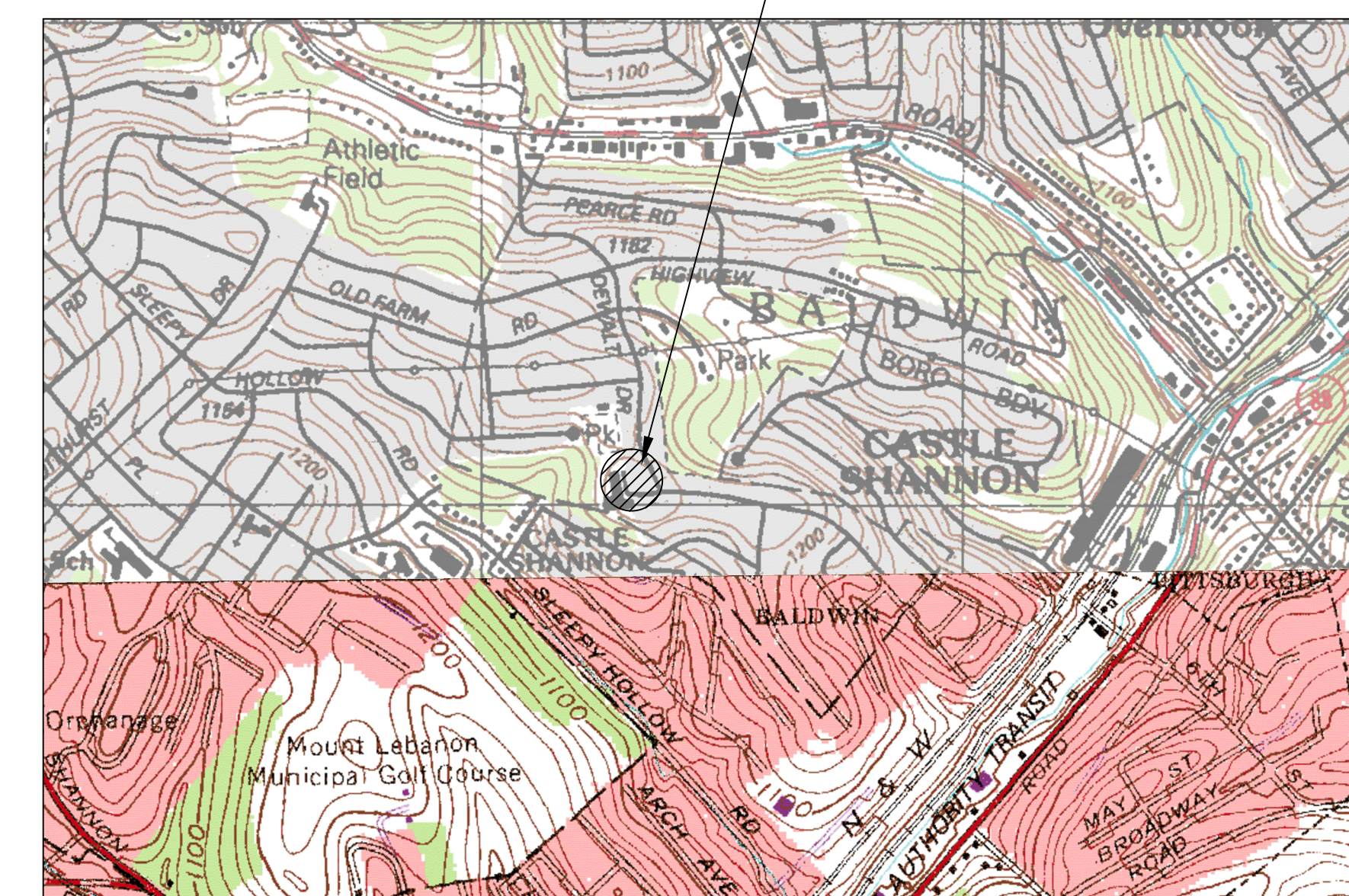
**C140**



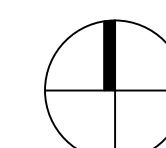
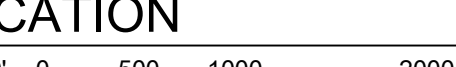
1 **EROSION AND SEDIMENTATION CONTROL PLAN**  
SCALE: 1" = 1000'



1 **SITE LOCATION**



1 **SITE LOCATION**  
SCALE: 1" = 1000'



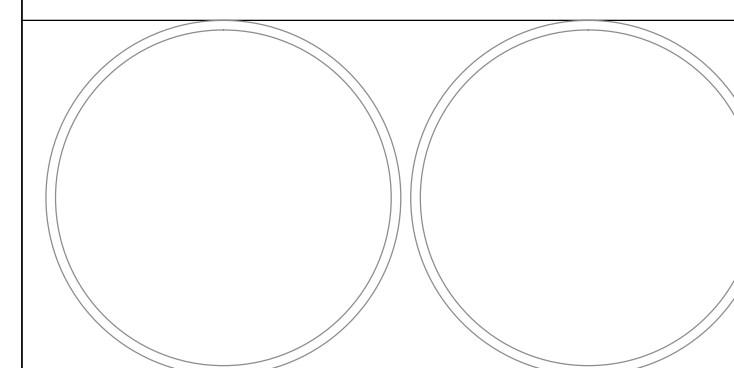


CONSULTANTS:

PROJECT NAME:  
**YOUNG SCHOLARS  
PARKING LOT  
PROJECT**

BALDWIN TOWNSHIP  
ALLEGHENY COUNTY, PA  
DEVELOPER:

YOUNG SCHOLARS  
WESTERN PA CHARTER SCHOOL  
600 NEWPORT DRIVE  
BALDWIN TOWNSHIP, PA 15234



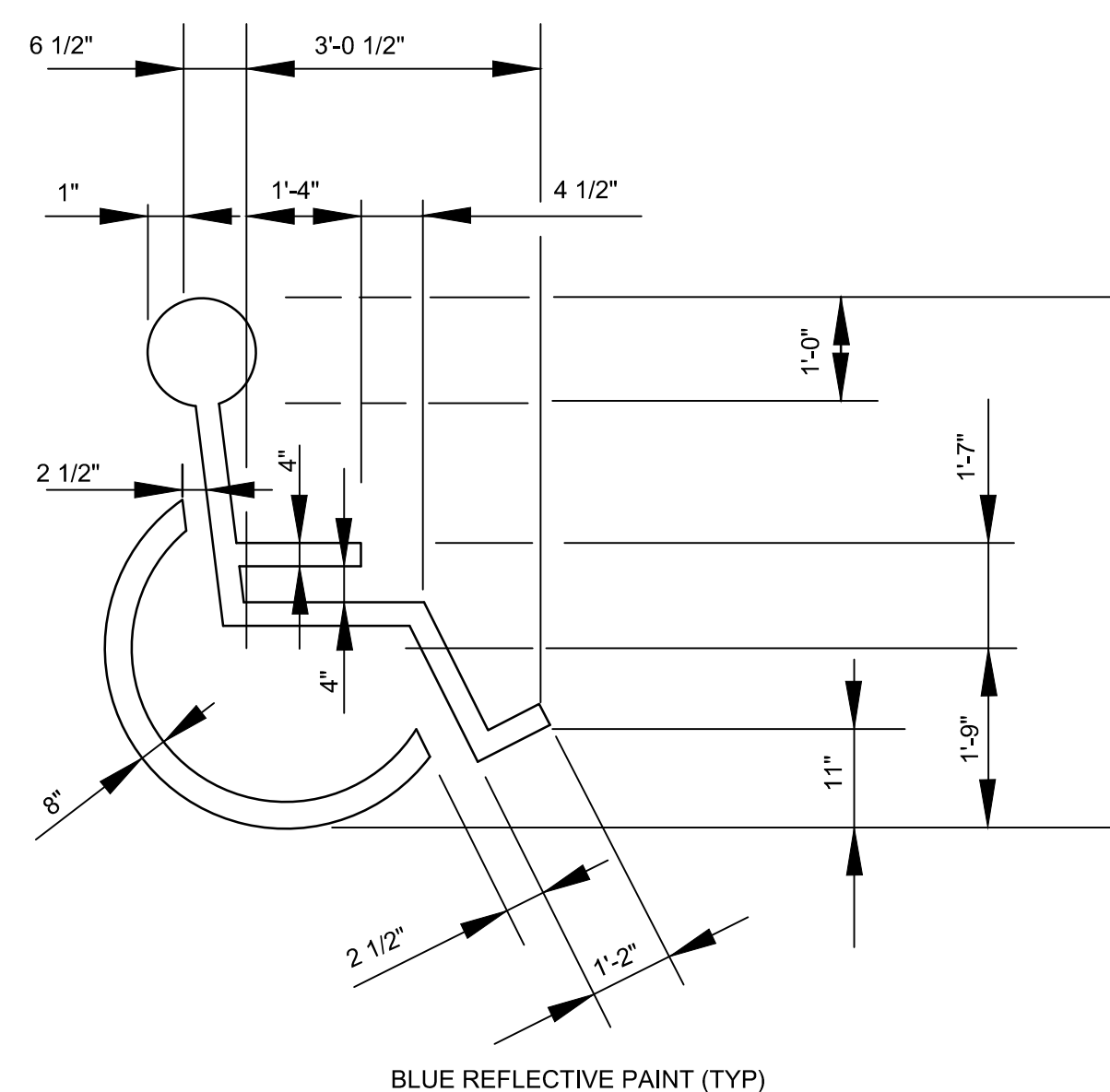
REV.	DATE	DESCRIPTION
1	3/11/14	CONSTRUCTION DOCUMENTS
ISSUE:	1/16/2014	
PROJECT NO:	13-2200-0236	
SCALE:	AS NOTED	
DRAWN BY:	MAK	
CHECKED BY:	GLS	

© CDI Infrastructure, LLC dba L.R. Kimball

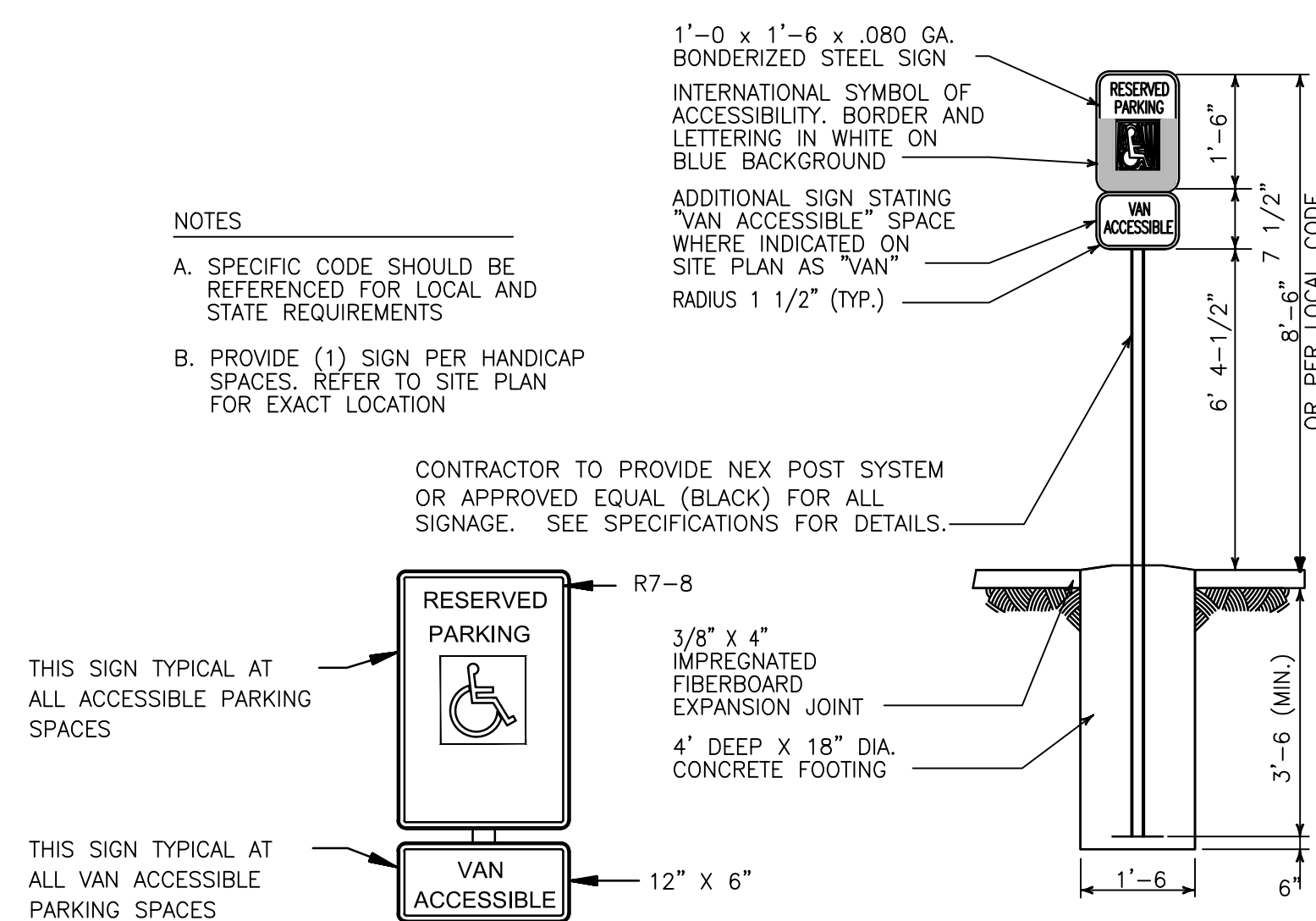
SHEET TITLE

SITE DETAILS

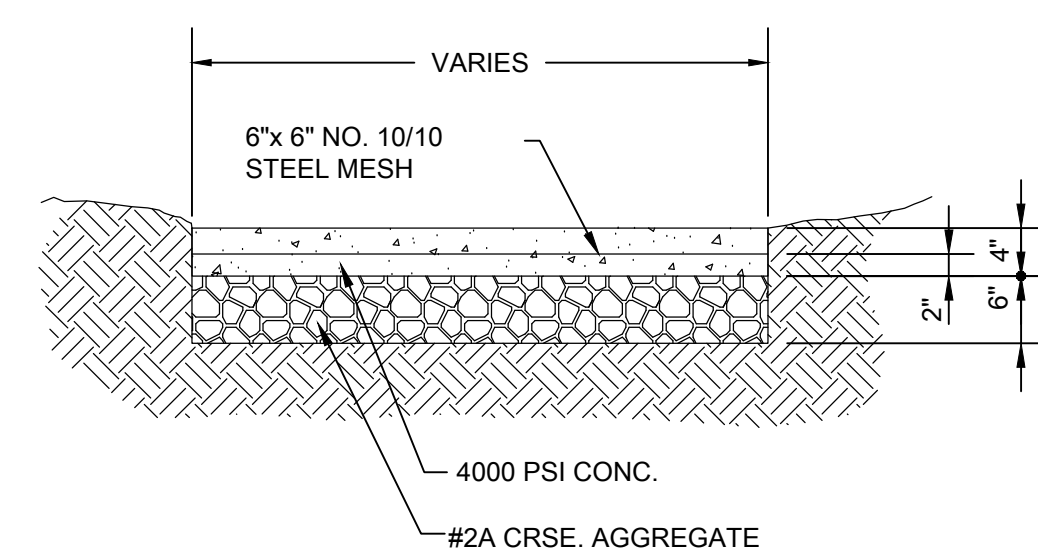
**C510**



**PAINTED ACCESSIBLE  
PARKING SYMBOL DETAIL**  
SCALE: NTS

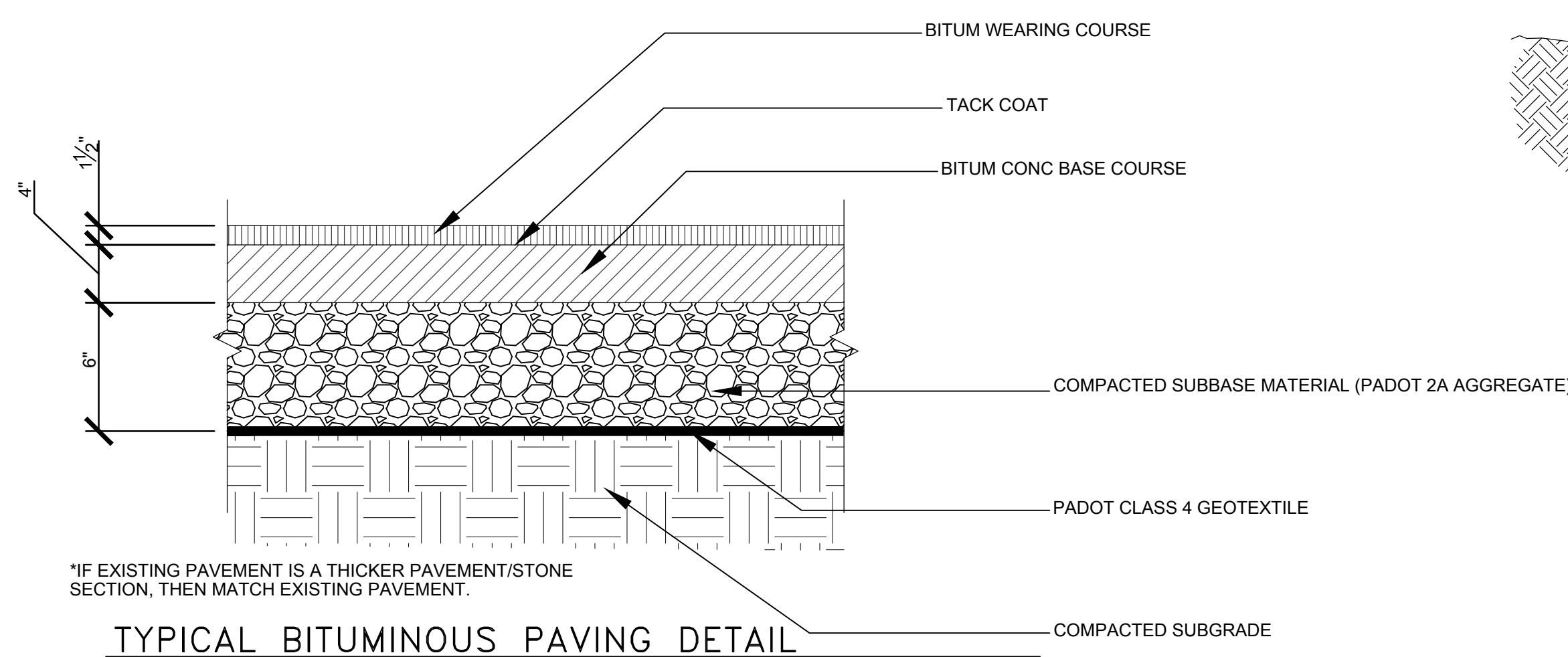


**ACCESSIBLE PARKING SIGN DETAIL**  
SCALE: NTS

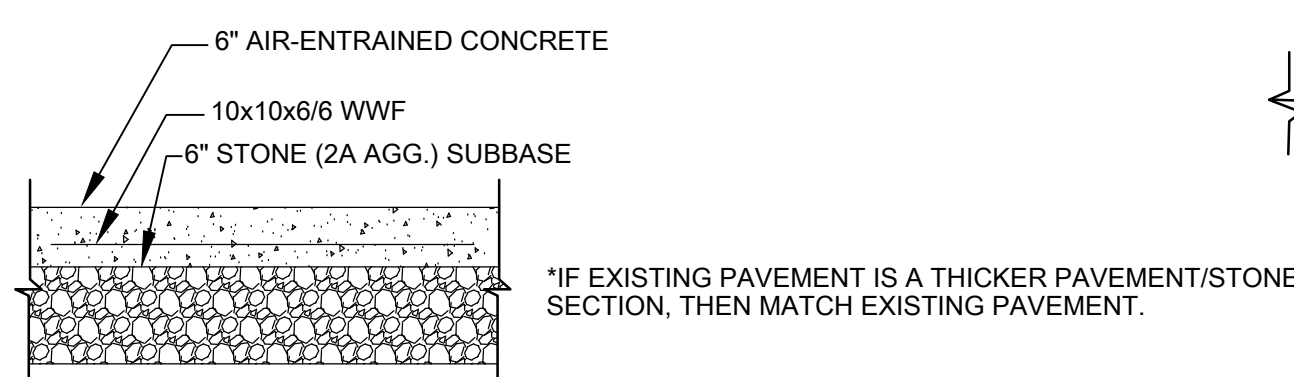


- NOTES:**
1. CONSTRUCT SIDEWALK IN ACCORDANCE WITH PADOT SPECIFICATIONS
  2. PROVIDE TRANSVERSE DUMMY JOINTS @ 6' INTERVALS
  3. PROVIDE 1/2" PREMOLDED EXPANSION JOINT MATERIAL @ 24' SPACING

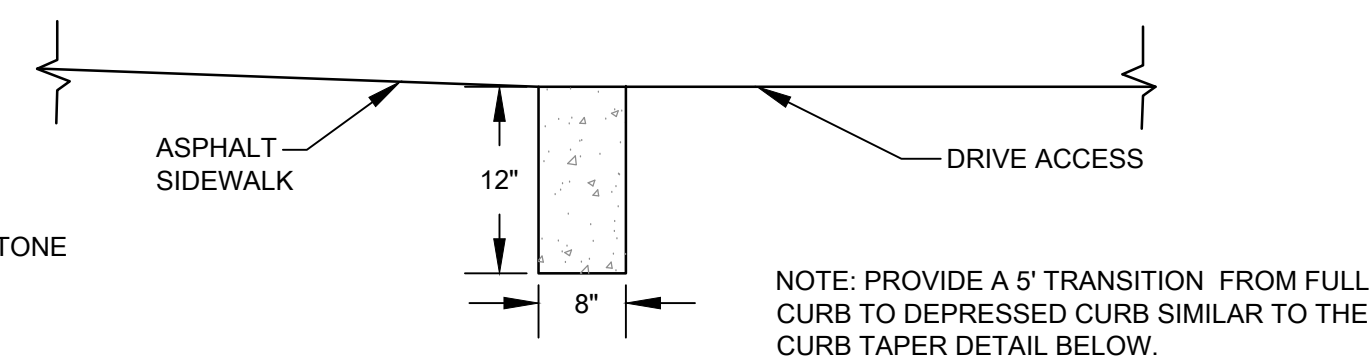
**CONCRETE WALK DETAIL**  
SCALE: NTS



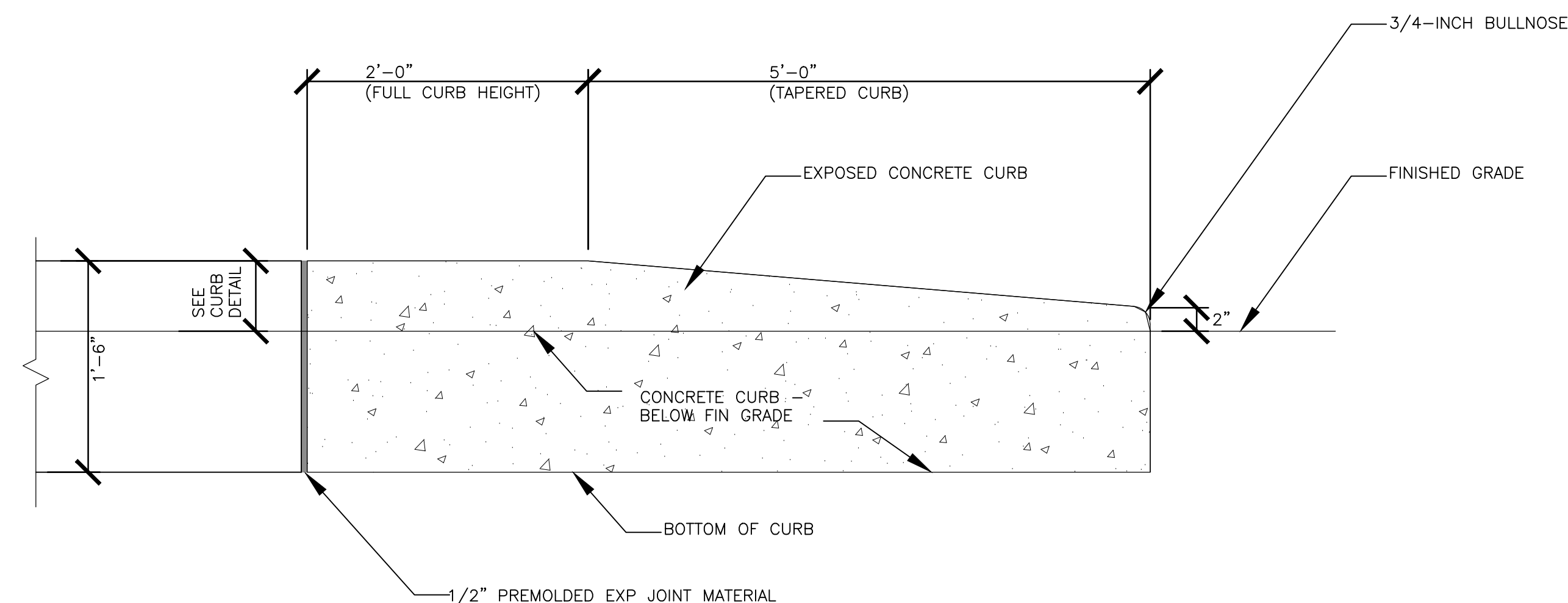
**TYPICAL BITUMINOUS PAVING DETAIL**  
SCALE: NTS



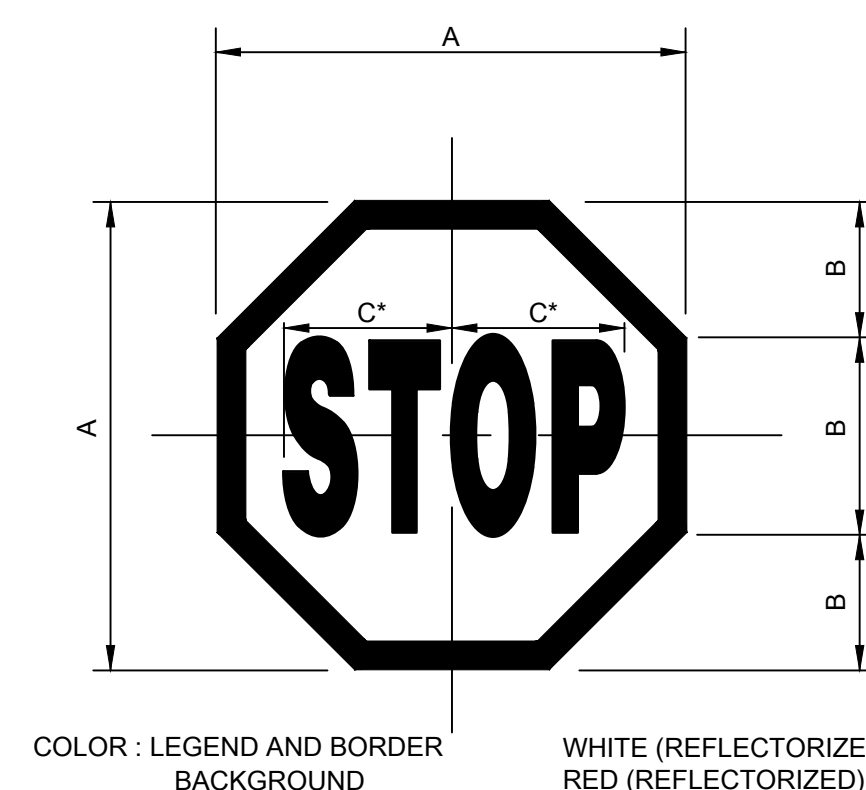
**DUMPSTER PAD CONCRETE PAVING**  
SCALE: NTS



**DEPRESSED CURB DETAIL**  
SCALE: NTS



**CURB TAPER DETAIL**  
SCALE: NTS



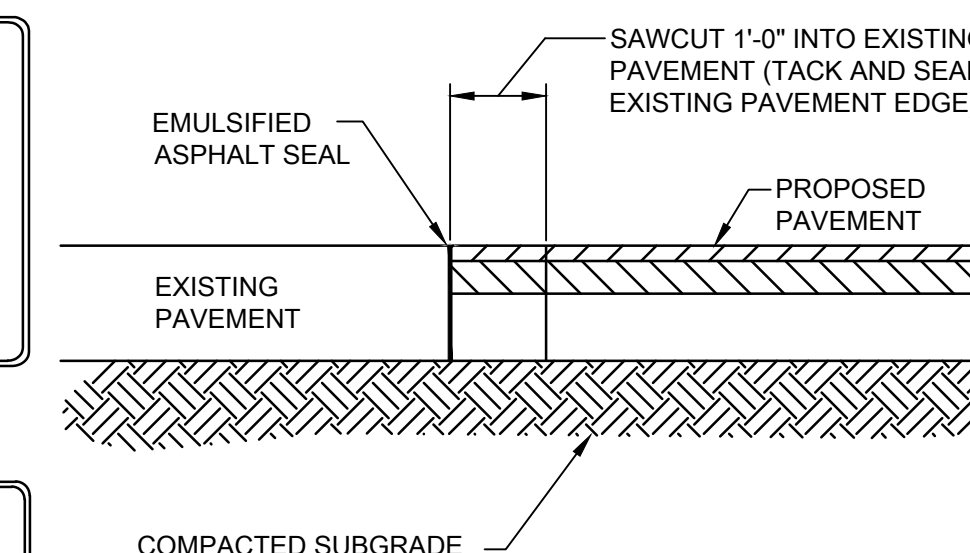
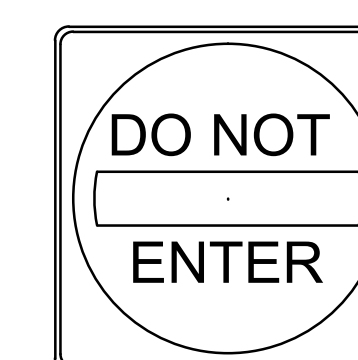
COLOR: LEGEND AND BORDER BACKGROUND WHITE (REFLECTORIZED)  
RED (REFLECTORIZED)

SIGN SIZE	DIMENSIONS			SER-IES	BOR-DER	BLANK STD.
	A	B	C			
30 X 30	30	10	12.5	C	3	BI-30

\*REDUCE SPACING 40% PA. D.O.T. R1-1

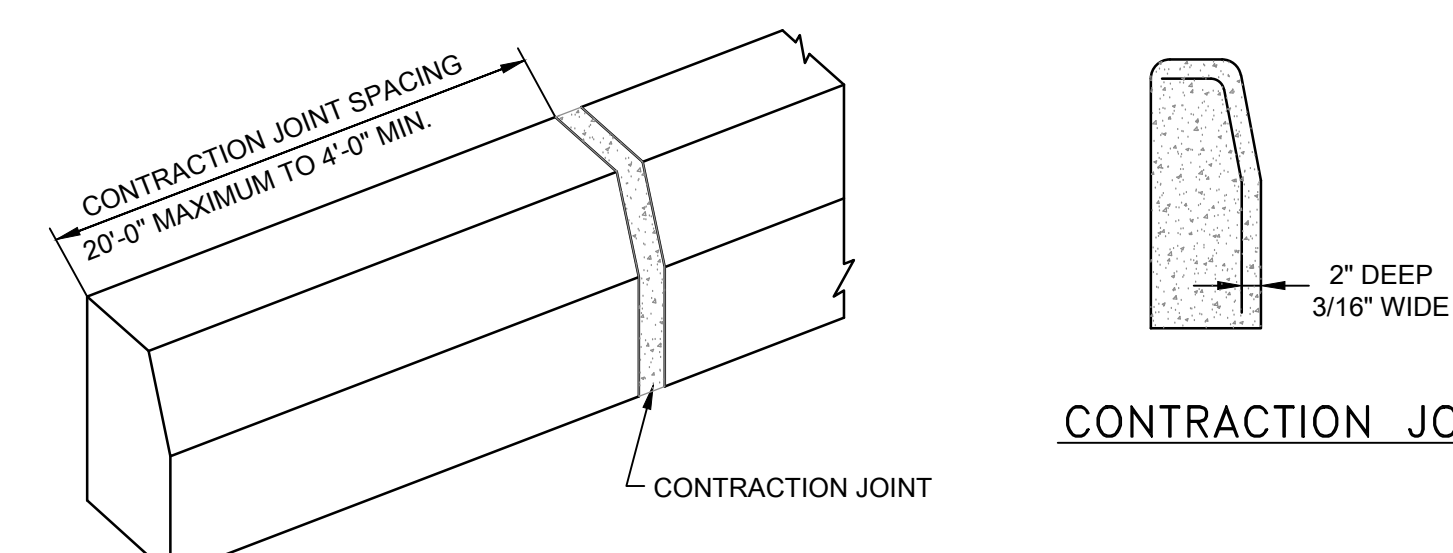
**SIGN DETAILS**

SCALE: NTS

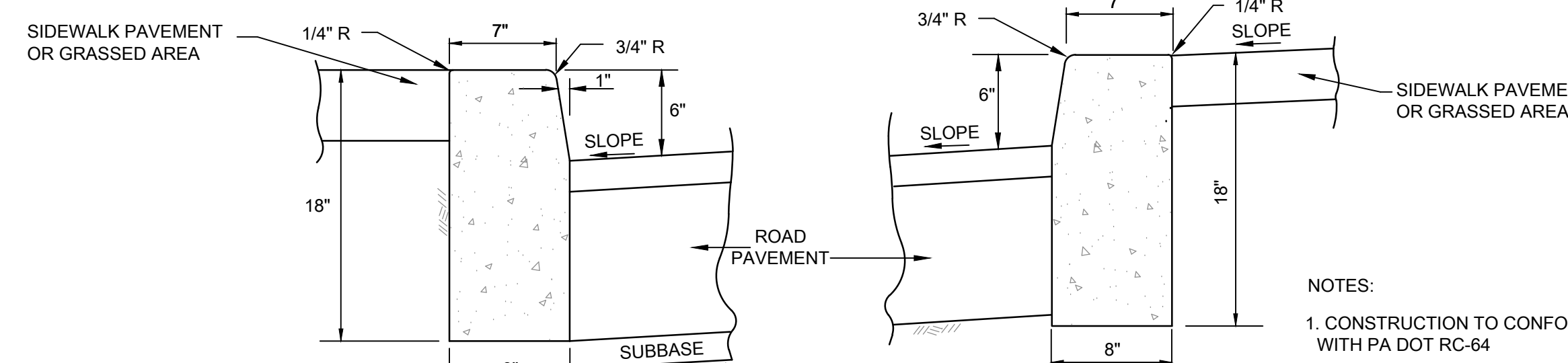


**PAVEMENT TIE-IN DETAIL**

SCALE: NTS

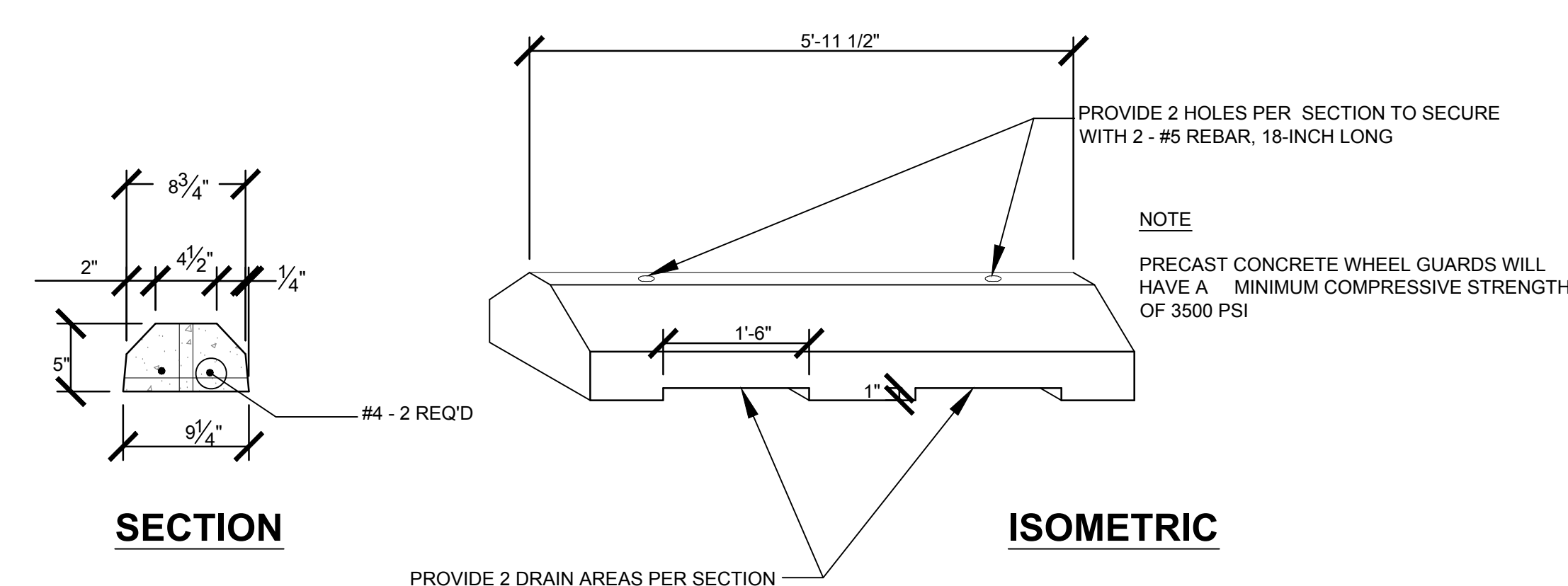


**CONTRACTION JOINT**



**CONCRETE CURB DETAIL**  
SCALE: NTS

- NOTES:**
1. CONSTRUCTION TO CONFORM WITH PA DOT RC-64
  2. USE 4000 PSI CAST IN PLACE CONCRETE



**SECTION**

**ISOMETRIC**

**WHEEL STOP DETAIL**

SCALE: NTS

615 West Highland Ave.  
Ebensburg, Pa. 15931

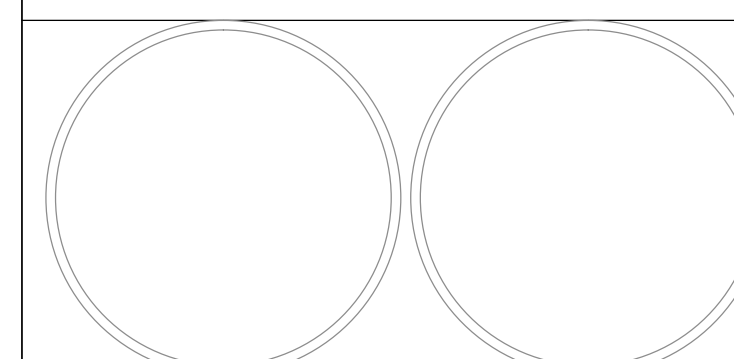
phone (814) 472-7700  
fax (814) 472-7712  
web site www.lrkimball.com

CONSULTANTS:

PROJECT NAME:  
**YOUNG SCHOLARS  
PARKING LOT  
PROJECT**

BALDWIN TOWNSHIP  
ALLEGHENY COUNTY, PA  
DEVELOPER:

YOUNG SCHOLARS  
WESTERN PA CHARTER SCHOOL  
600 NEWPORT DRIVE  
BALDWIN TOWNSHIP, PA 15234



REV.	DATE	DESCRIPTION
1	3/11/14	CONSTRUCTION DOCUMENTS

ISSUE: 1/16/2014

PROJECT NO: 13-2200-0236

SCALE: AS NOTED

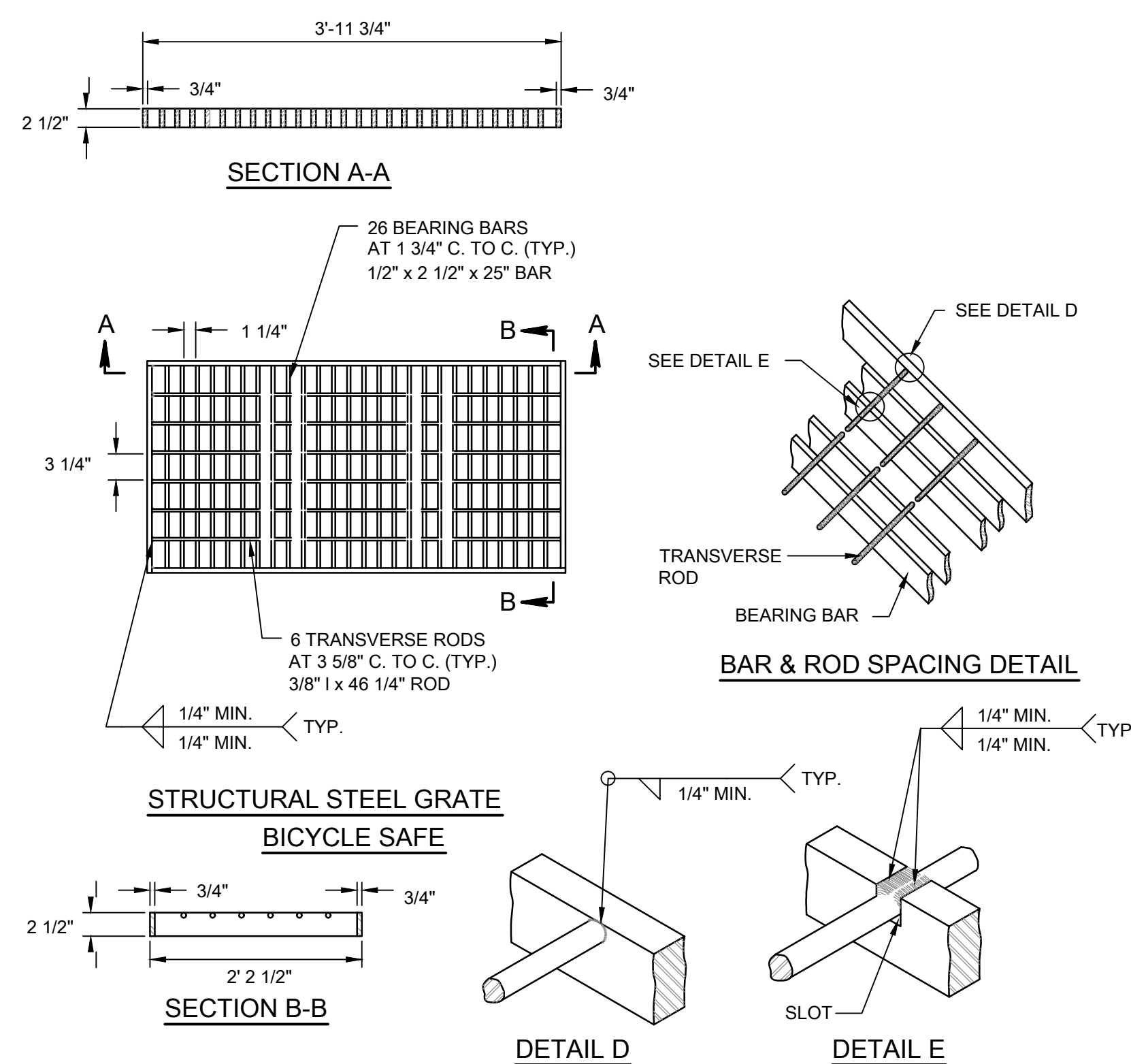
DRAWN BY: MAK

CHECKED BY: GLS

© CDI Infrastructure, LLC dba L.R. Kimball

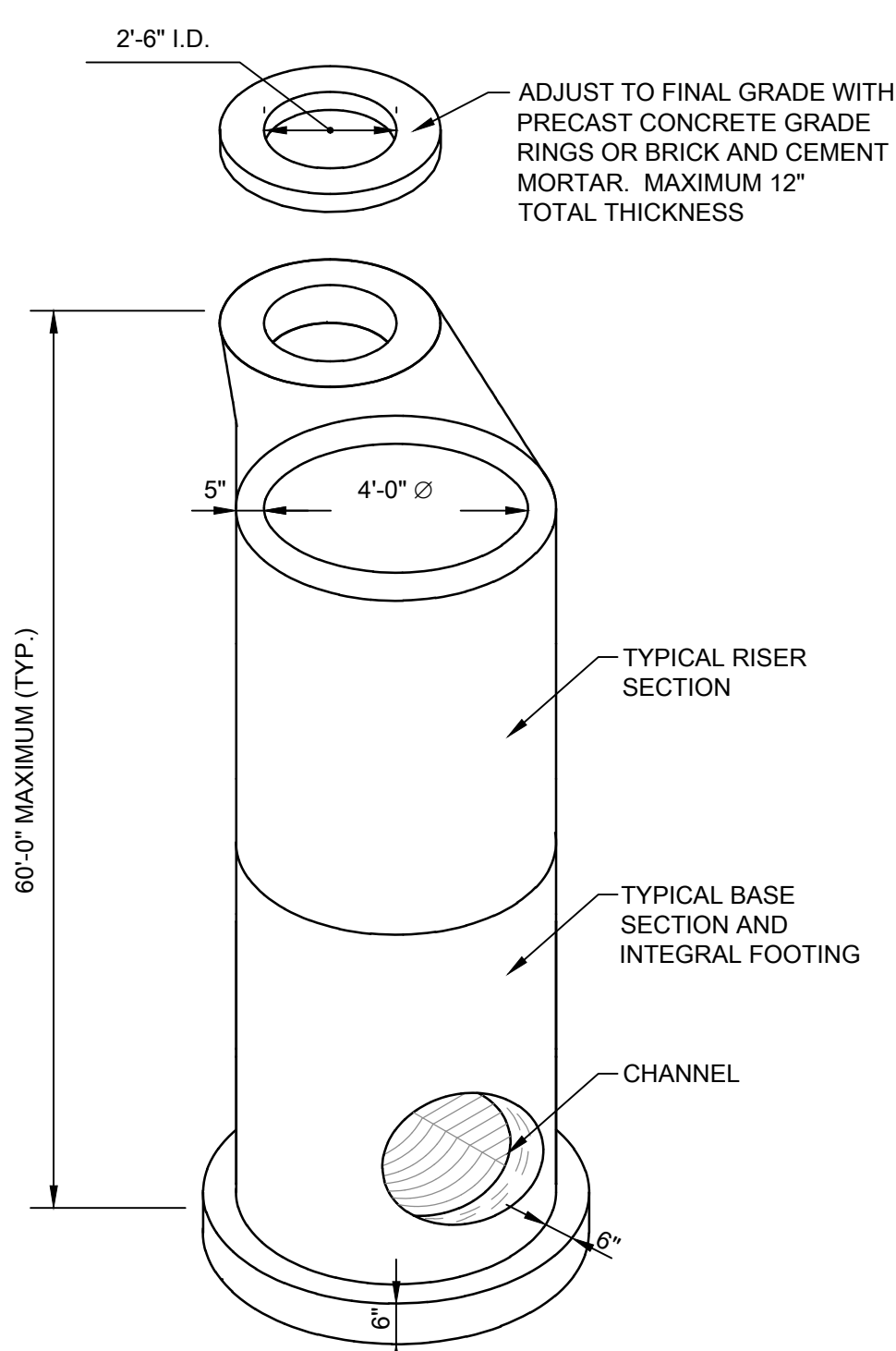
SHEET TITLE

**C511**



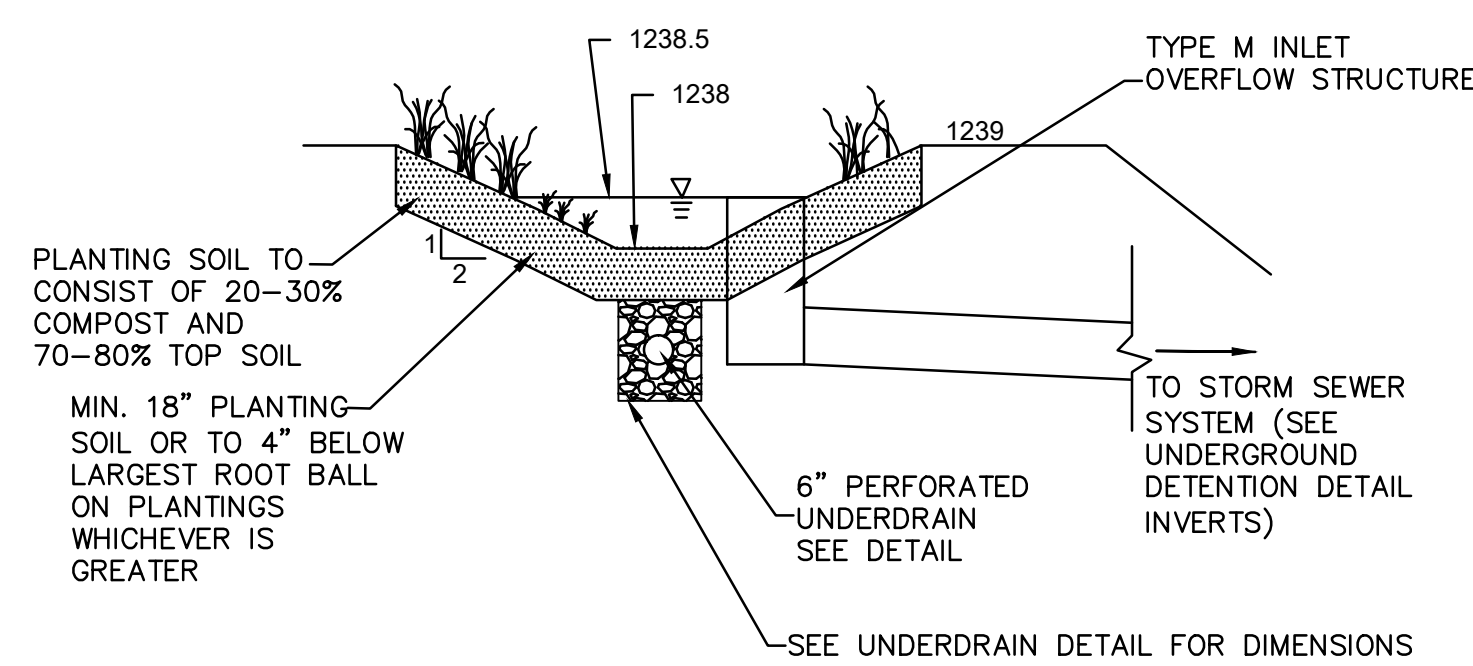
**STRUCTURAL STEEL, BICYCLE SAFE GRATE DETAILS**

SCALE: NTS



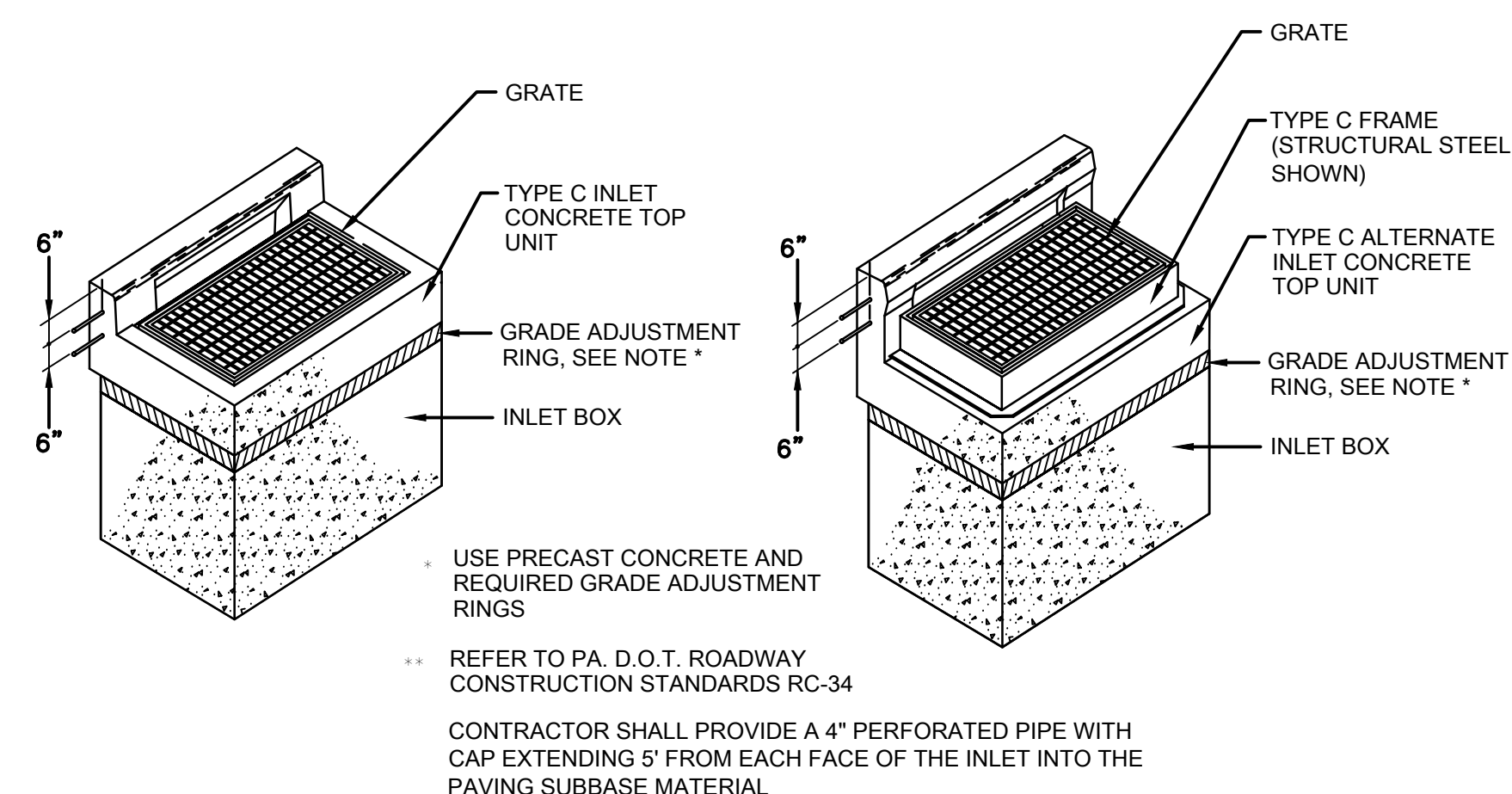
**4' DIAMETER STORM MANHOLE**

SCALE: NTS



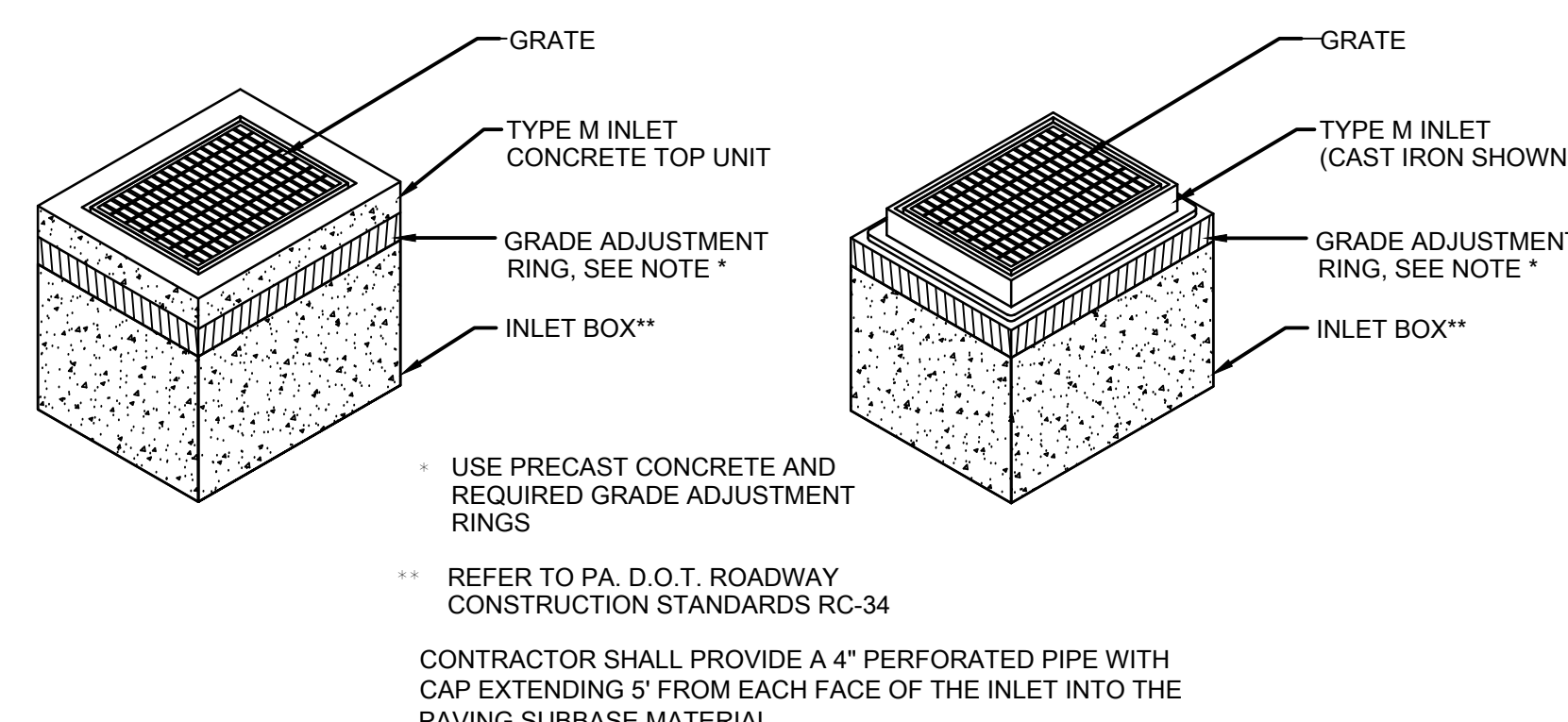
**TYPICAL RAIN GARDEN DETAIL**

SCALE: NTS



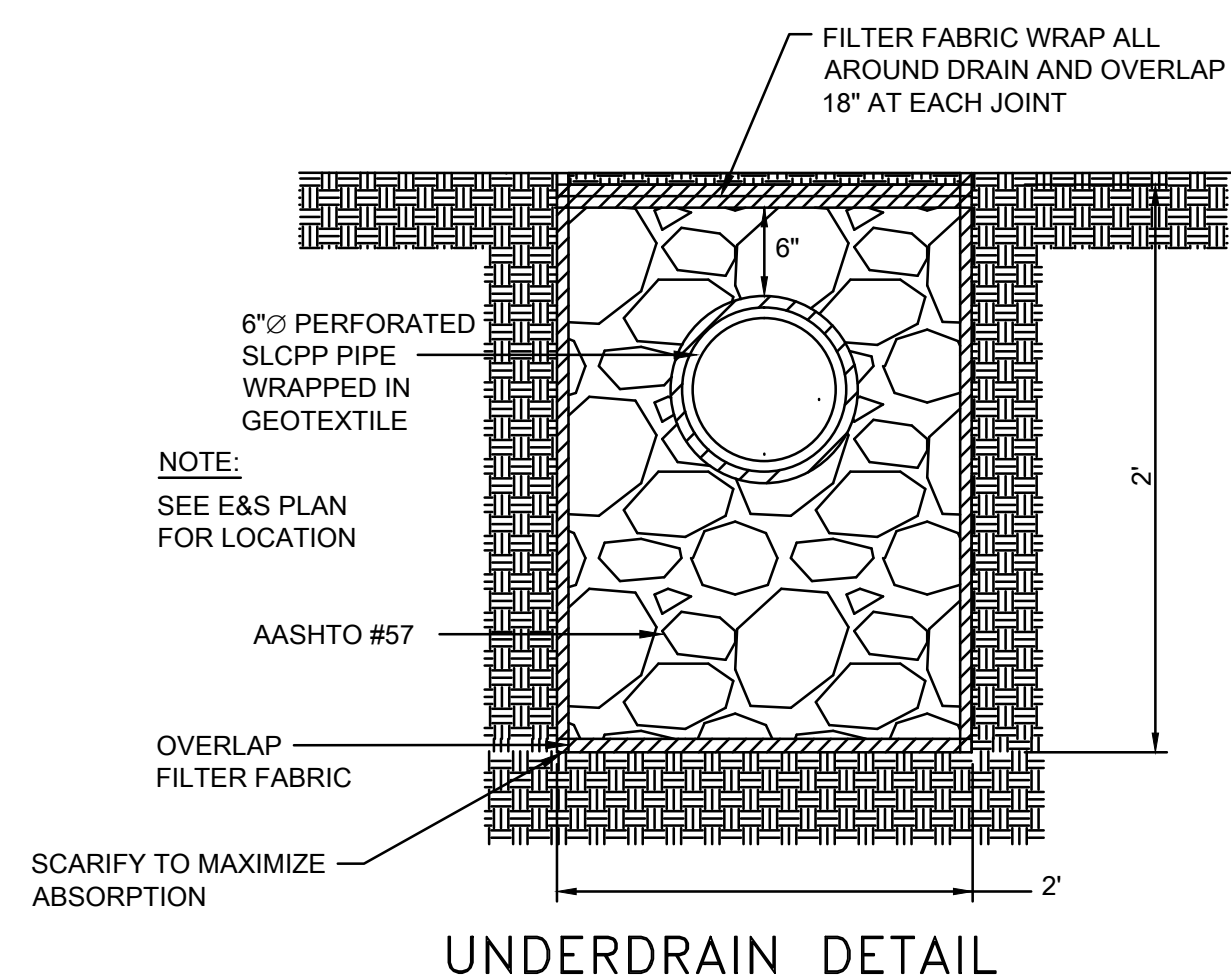
**STANDARD TYPE "C" INLET DETAILS**

SCALE: NTS

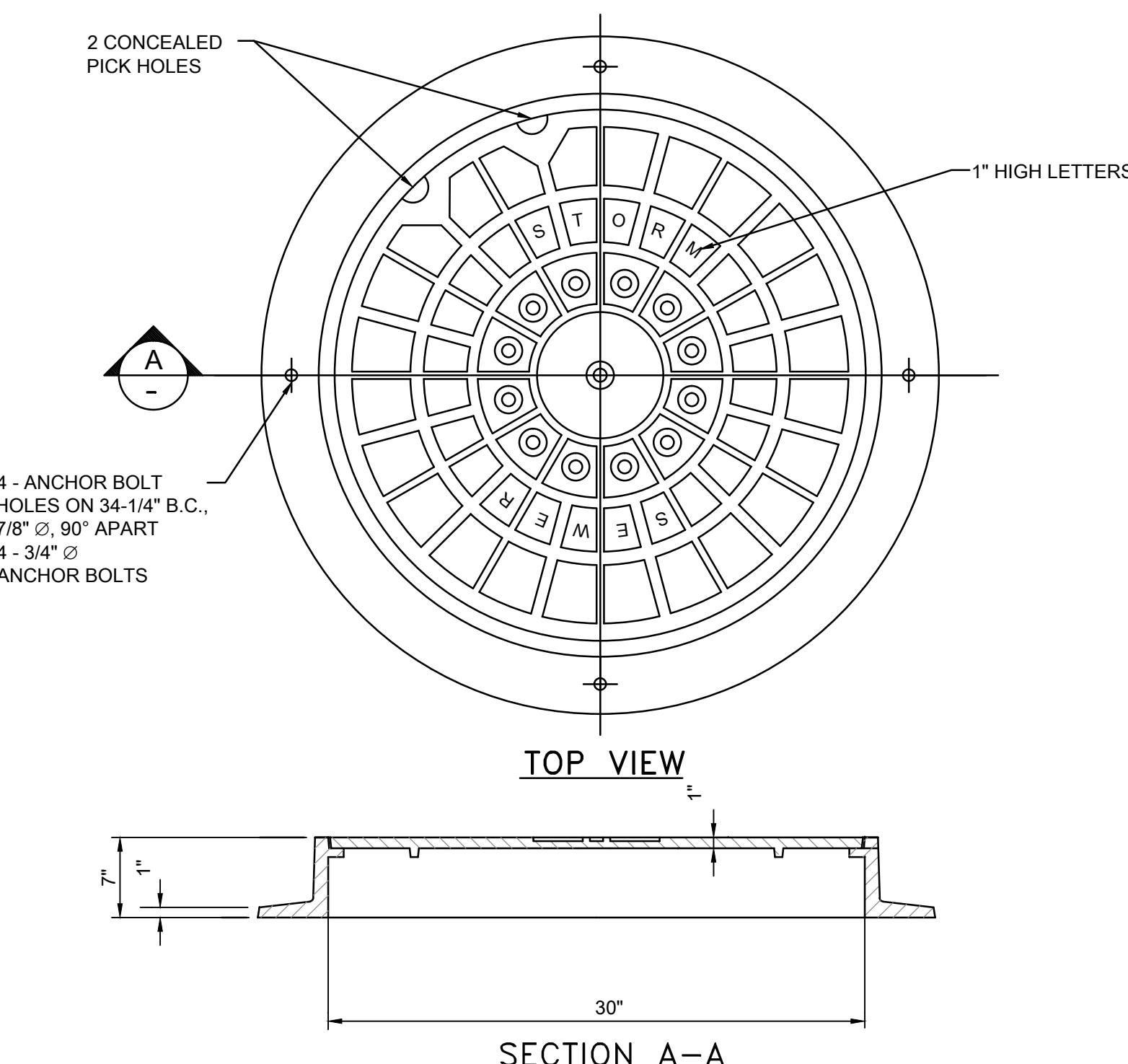


**STANDARD TYPE "M" INLET DETAILS**

SCALE: NTS

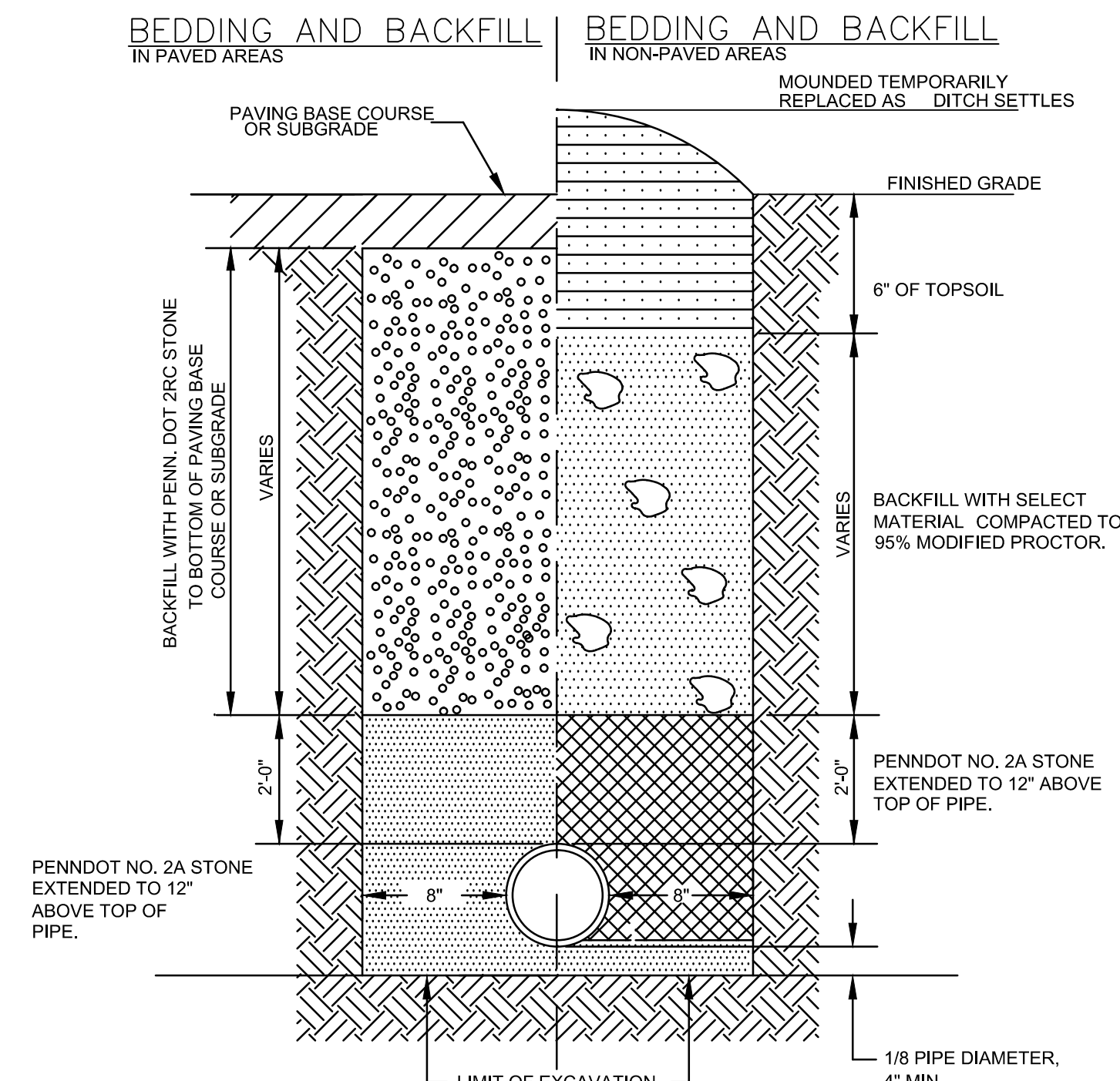


SCALE: NTS



**MANHOLE COVER AND FRAME**

SCALE: NTS



**METHOD OF BACKFILL FOR PIPE TRENCHES**

SCALE: NTS



## STORMWATER CONVEYANCE/DETENTION SYSTEM MAINTENANCE NOTES

THE INSPECTION/MAINTENANCE OF THE CONVEYANCE SYSTEM SHOULD CONSIST OF THE FOLLOWING TASKS:

1. INSPECT THE INLET BOXES AND PIPING SYSTEM FOR ANY GROWING BRUSH, TRASH, OR OBSTRUCTIONS, AND REMOVE ANY MATERIAL THAT COULD POSSIBLY BLOCK THE DOWNSTREAM PIPING.
2. REMOVE ANY TRASH THAT HAS BUILT UP WITHIN THE INLET BOXES, OR IS CAUGHT IN THE GRATES OF THE INLETS. THE TRASH SHALL BE REMOVED TO AN OFF-SITE LOCATION AND DISPOSED OF IN A LAWFUL MANNER.
3. INSPECT THE CLEANOUTS FOR ANY SIGNS OF WEAR OR DESTRUCTION OF THE PIPING SYSTEM OR FOR ANY EXCESS SEDIMENT DEPOSITS THAT IS NOT CONSISTENT WITH NORMAL OPERATION. IF PRESENT, CONTACT THE SITE ENGINEER OR A REPRESENTATIVE FROM THE TOWNSHIP IMMEDIATELY.
4. THE PROPERTY OWNER/DEVELOPER, YOUNG SCHOLAR WESTERN PA CHARTER SCHOOL, SHALL BE RESPONSIBLE FOR MAINTENANCE OF THE STORMWATER MANAGEMENT SYSTEM BEING CONSTRUCTED AS PART OF THIS PROJECT.

## GENERAL CONSTRUCTION SEQUENCE NOTES

1. ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE CONSTRUCTION SEQUENCE. CLEARING AND GRUBBING SHALL BE LIMITED ONLY TO THOSE AREAS DESCRIBED.
2. BEFORE IMPLEMENTATION ANY REVISIONS TO THE APPROVED EROSION AND SEDIMENT CONTROL PLAN OR REVISIONS TO OTHER PLANS WHICH MAY AFFECT THE EFFECTIVENESS OF THE APPROVED E&S CONTROL PLAN, THE OPERATOR MUST RECEIVE APPROVAL OF THE REVISIONS FROM THE SITE ENGINEER OR COUNTY CONSERVATION DISTRICT.
3. THE OPERATOR SHALL REMOVE FROM THE SITE, RECYCLE OR DISPOSE OF ALL BUILDING MATERIALS AND WASTES IN ACCORDANCE WITH THE DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA CODE 260.1 ET SEQ., 271.1 E. SEQ. AND 287.1 ET SEQ.
4. BEFORE DISPOSING OF SOIL OR RECEIVING BORROW FOR THE SITE, THE OPERATOR MUST PROVIDE PROOF THAT EACH SPOIL OR BORROW AREA HAS AN EROSION AND SEDIMENT CONTROL PLAN APPROVED BY THE ALLEGHENY COUNTY CONSERVATION DISTRICT, AND WHICH IS BEING IMPLEMENTED AND MAINTAINED ACCORDING TO CHAPTER 102 REGULATIONS.
5. ANY FILL MATERIAL IMPORTED TO THE SITE SHALL BE "CLEAN" FILL IN ACCORDANCE WITH PADEP REGULATIONS AND CONSTRUCTION SPECIFICATIONS. ENVIRONMENTAL DUE DILIGENCE SHALL BE USED AND MEANS THAT EVERY EFFORT SHALL BE MADE TO ENSURE THAT THE LAND BEING PURCHASED/DEVELOPED DOES NOT POSE ANY POTENTIAL RISKS OR ENVIRONMENTAL HAZARDS THAT MAY AFFECT THE AREA'S DEVELOPMENT OR ITS FUTURE OCCUPANTS.

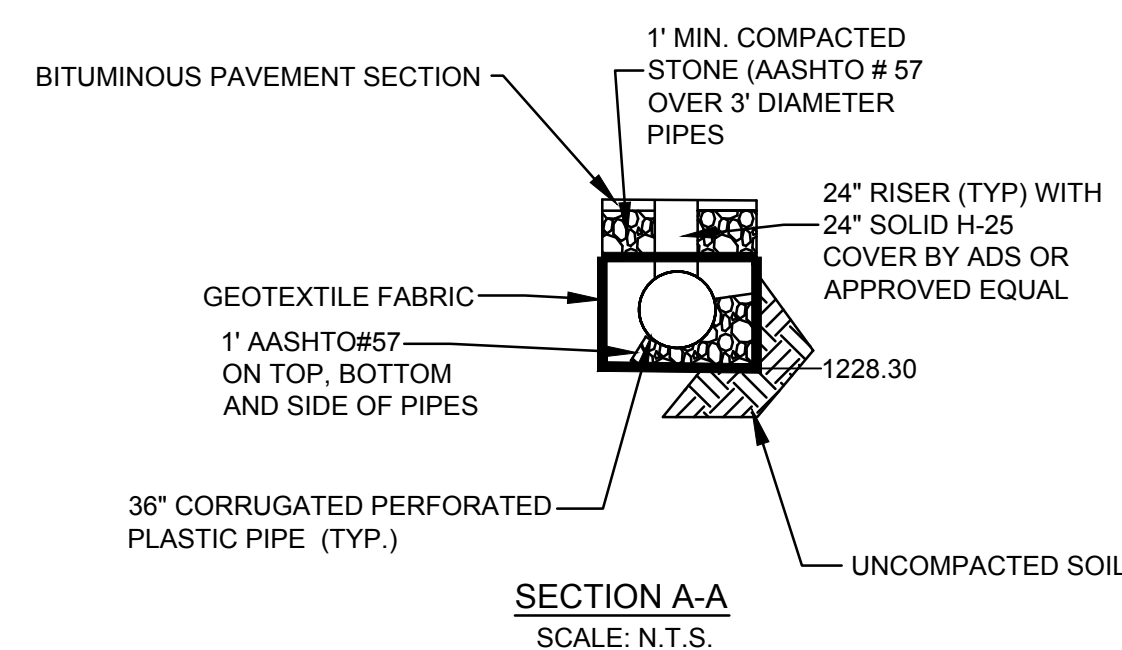
## RAINGARDEN MAINTENANCE AND INSPECTION

### CONSTRUCTION SEQUENCE

1. REFER TO THE CONSTRUCTION SEQUENCE ON THE EROSION AND SEDIMENTATION CONTROL PLANS FOR RAINGARDEN INSTALLATION INSTRUCTIONS.
2. STABILIZE GRADING WITHIN THE LIMIT OF DISTURBANCE EXCEPT WITHIN THE RAINGARDEN AREA. RAINGARDEN BED AREAS MAY BE USED AS TEMPORARY SEDIMENT TRAPS PROVIDED THAT THE PROPOSED FINISHED ELEVATION OF THE BED IS 12 INCHES LOWER THAN THE BOTTOM ELEVATION OF THE SEDIMENT TRAP.
3. EXCAVATE THE RAINGARDEN TO PROPOSED INVERT DEPTH OR TO THE BOTTOM OF THE AGGREGATE BED AND SCARIFY THE EXISTING SOIL SURFACES. DO NOT COMPACT THE IN-SITU SOILS.
4. BACKFILL THE RAINGARDEN WITH THE AMENDED SOIL AS SHOWN ON THE PLANS AND SPECIFICATIONS. OVERFILLING IS RECOMMENDED TO ACCOUNT FOR SETTLEMENT. LIGHT HAND TAMPING IS ACCEPTABLE IF NECESSARY.
5. PRESOAK THE PLANTING SOIL PRIOR TO PLANTING VEGETATION TO AID IN SETTLEMENT.
6. COMPLETE FINAL GRADING TO ACHIEVE PROPOSED DESIGN ELEVATIONS, LEAVING SPACE FOR UPPER LAYER OF COMPOST, MULCH OR TOPSOIL AS SPECIFIED ON THE PLANS.
7. PLANT VEGETATION.
8. MULCH AND INSTALL EROSION PROTECTION AT SURFACE FLOW ENTRANCES WHERE NECESSARY.

### MAINTENANCE AND INSPECTION

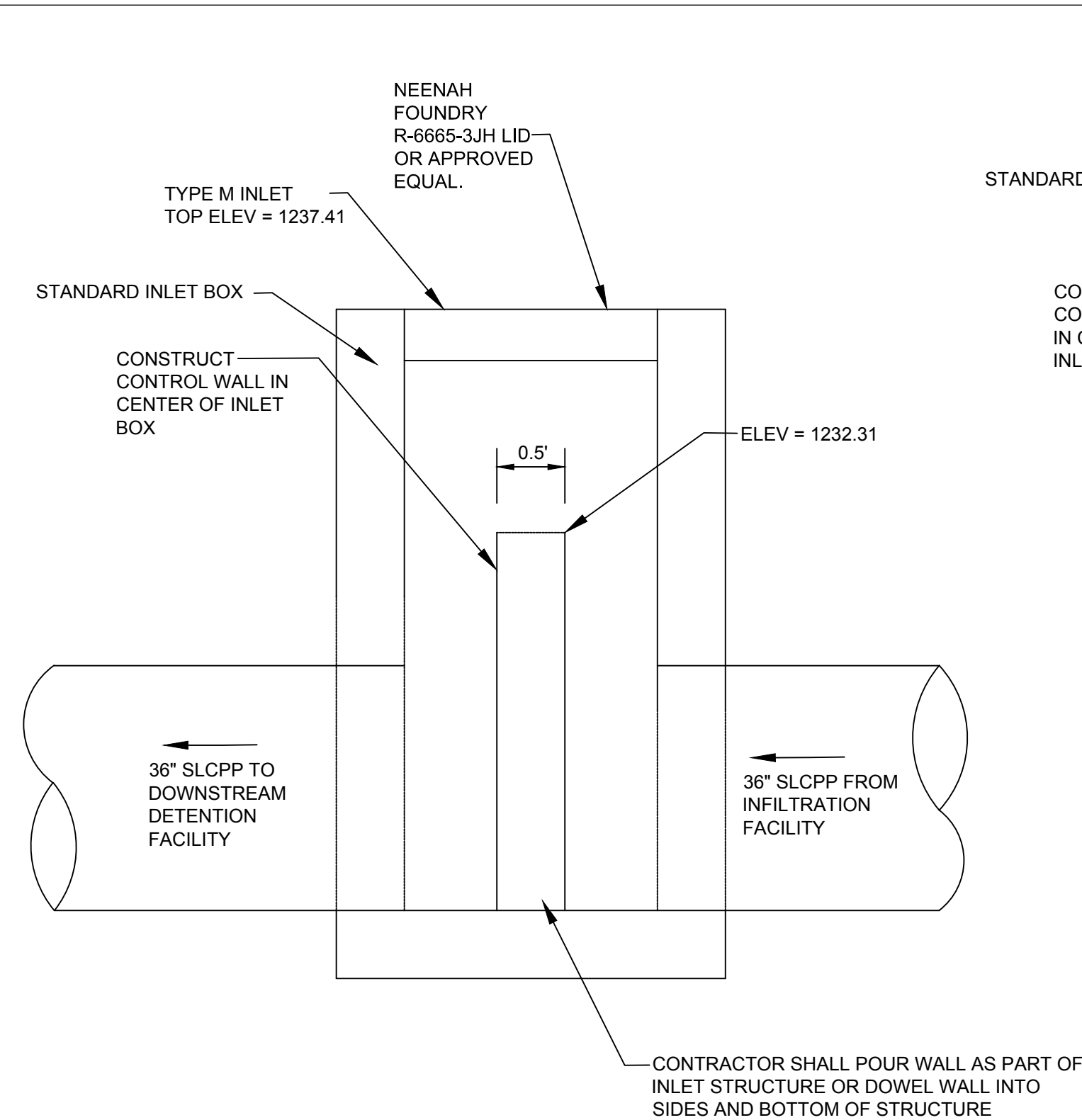
1. WHILE VEGETATION IS BEING ESTABLISHED, PRUNING AND WEEDING MAY BE REQUIRED.
2. DETRITUS MAY ALSO NEED TO BE REMOVED EVERY YEAR. PERENNIAL PLANTINGS MAY BE CUT DOWN AT THE END OF THE GROWING SEASON.
3. MULCH SHOULD BE RE-SPREAD WHEN EROSION IS EVIDENT AND BE REPLISHED AS NEEDED. ONCE EVERY 2 TO 3 YEARS THE ENTIRE AREA MAY REQUIRE MULCH REPLACEMENT.
4. RAINGARDEN AREAS SHOULD BE INSPECTED AT LEAST 2 TIMES PER YEAR FOR SEDIMENT BUILDUP, EROSION, VEGETATIVE CONDITIONS, ETC.
5. DURING PERIODS OF EXTENDED DROUGHT, RAINGARDEN AREAS MAY REQUIRE WATERING.



SECTION A-A  
SCALE: N.T.S.

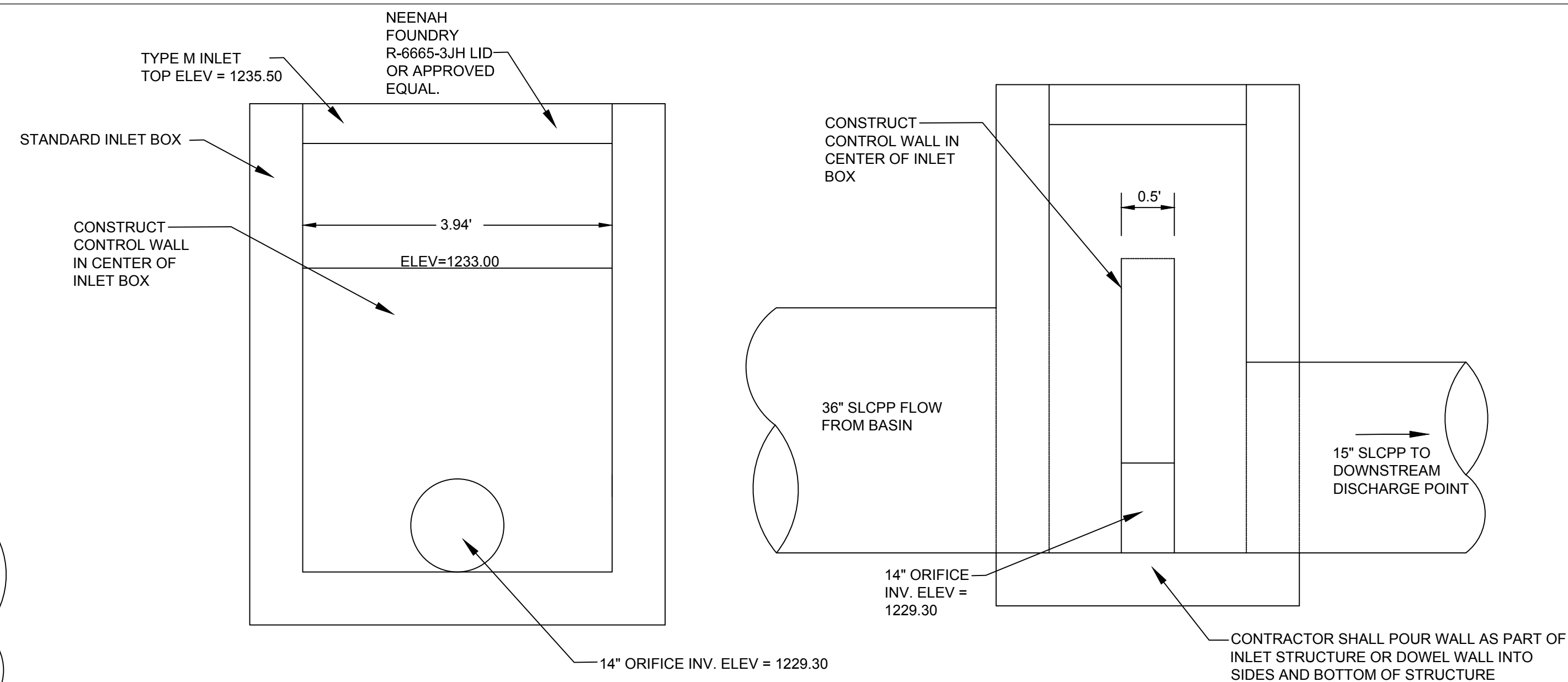
## INFILTRATION FACILITY

SCALE: NTS



## INFILTRATION FACILITY CONTROL STRUCTURE

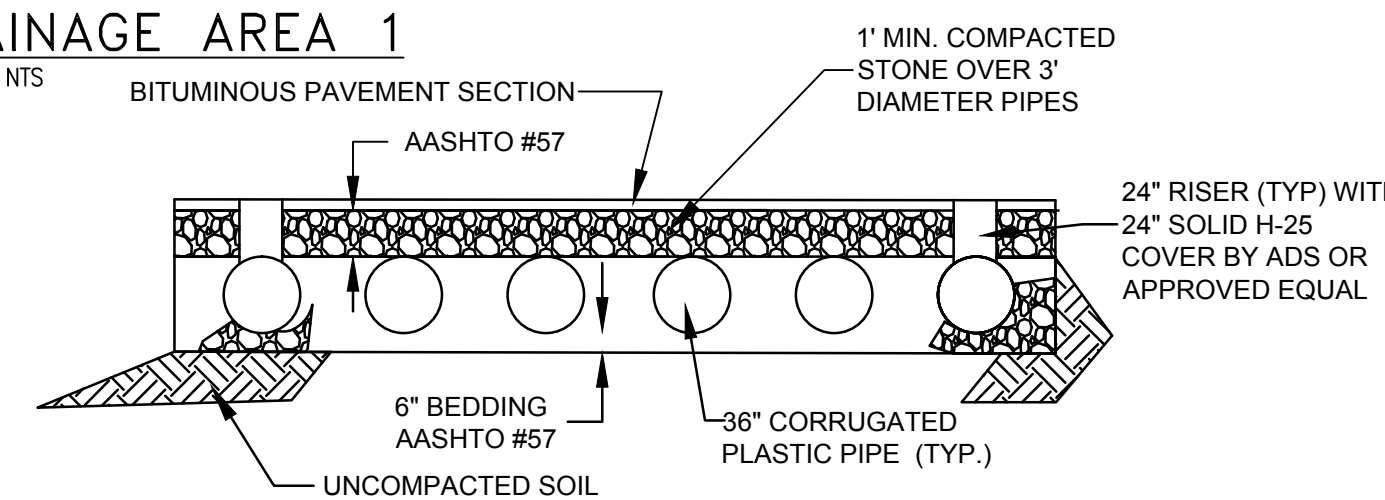
SCALE: NTS



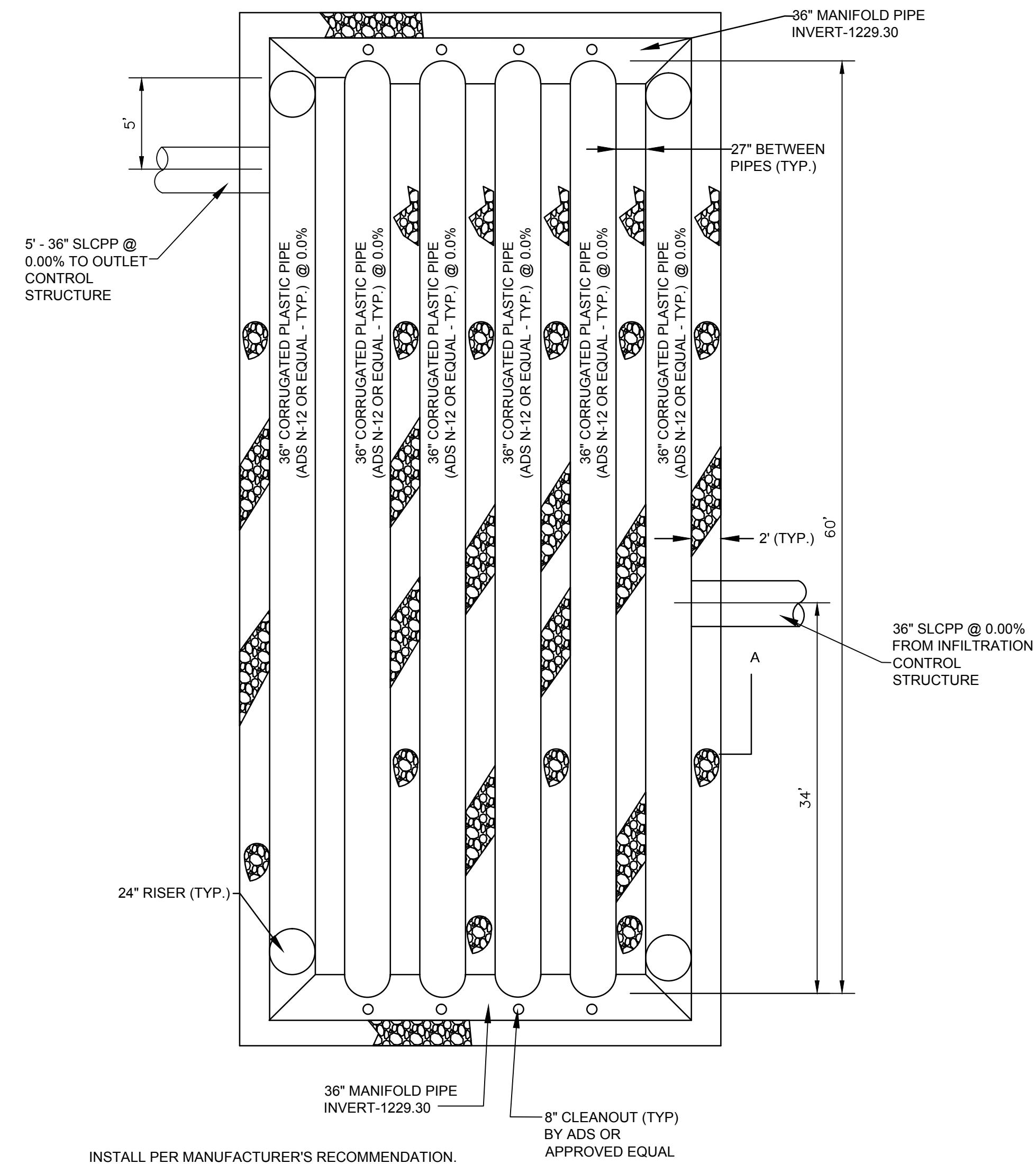
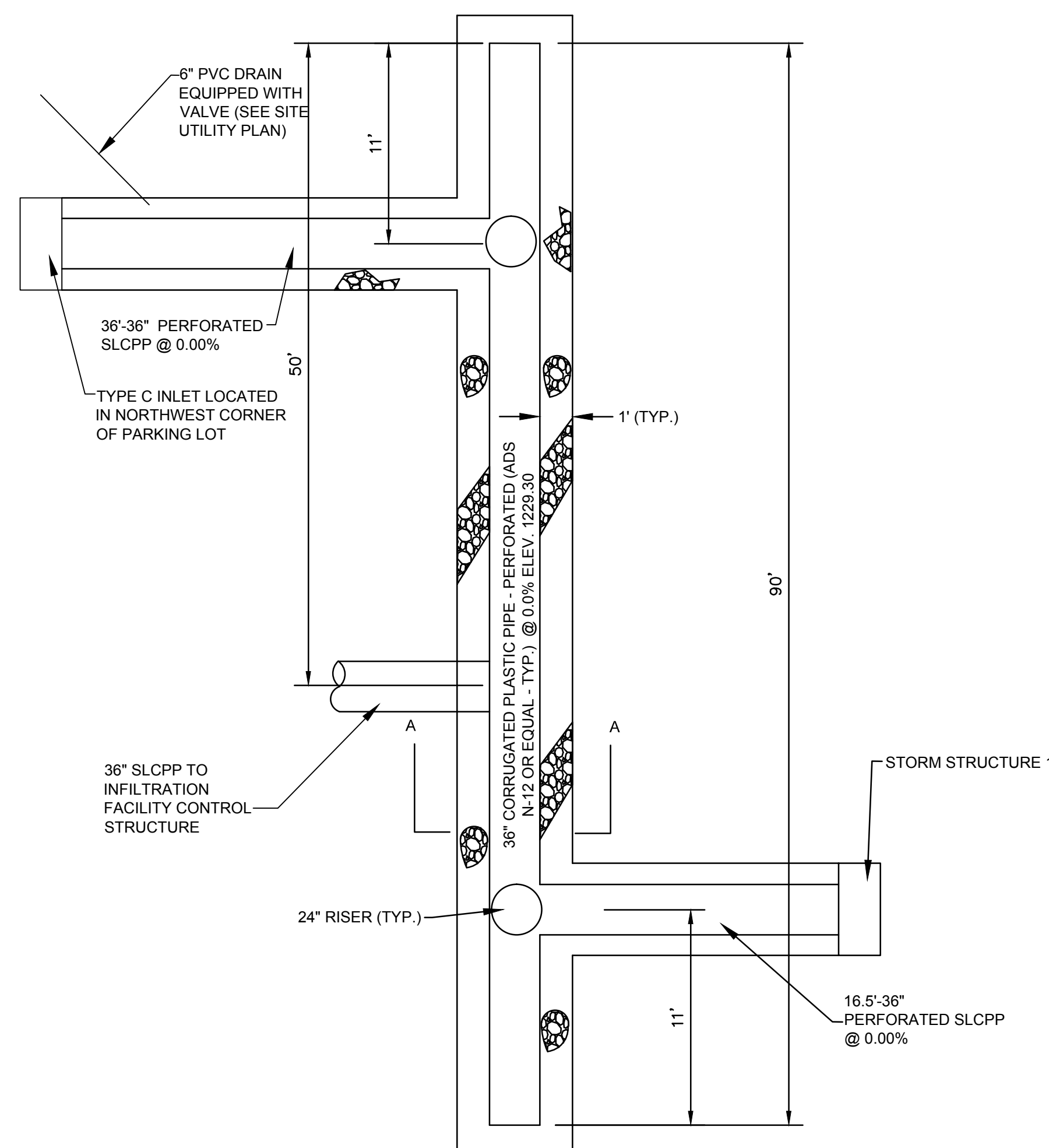
## UNDERGROUND DETENTION BASIN CONTROL STRUCTURE

### DRAINAGE AREA 1

SCALE: NTS



SECTION A-A  
SCALE: N.T.S.



## UNDERGROUND DETENTION BASIN

### DRAINAGE AREA 1

SCALE: NTS

A CDI Company

615 West Highland Ave.  
Ebensburg, Pa. 15931

phone (814) 472-7700  
fax (814) 472-7712  
web site www.lrkimball.com

CONSULTANTS:

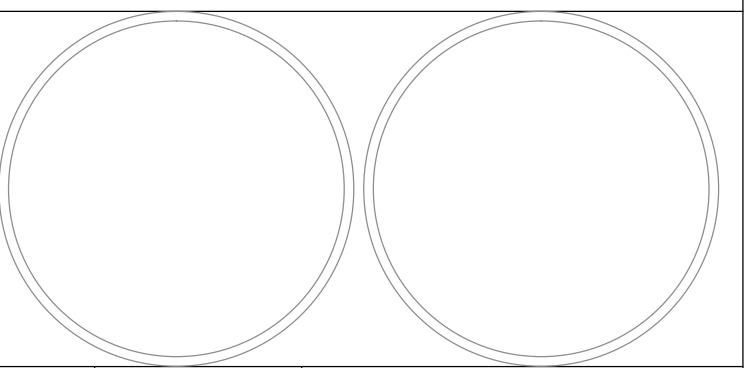
PROJECT NAME:

## YOUNG SCHOLARS PARKING LOT PROJECT

BALDWIN TOWNSHIP  
ALLEGHENY COUNTY, PA  
DEVELOPER:

YOUNG SCHOLARS  
WESTERN PA CHARTER SCHOOL

600 NEWPORT DRIVE  
BALDWIN TOWNSHIP, PA 15234



REV.	DATE	DESCRIPTION
1	3/11/14	CONSTRUCTION DOCUMENTS

ISSUE:	1/16/2014
PROJECT NO:	13-2200-0236
SCALE:	AS NOTED
DRAWN BY:	MAK
CHECKED BY:	GLS

© CDI Infrastructure, LLC dba L.R. Kimball

SHEET TITLE

SITE DETAILS

**C512**

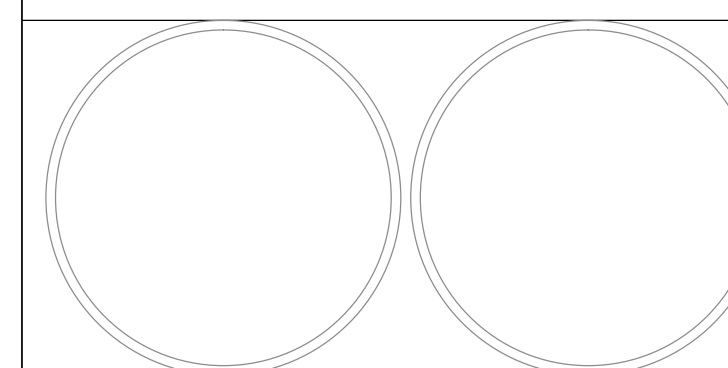
CONSULTANTS:

PROJECT NAME:  
**YOUNG SCHOLARS  
PARKING LOT  
PROJECT**

BALDWIN TOWNSHIP  
ALLEGHENY COUNTY, PA  
DEVELOPER:

YOUNG SCHOLARS  
WESTERN PA CHARTER SCHOOL

600 NEWPORT DRIVE  
BALDWIN TOWNSHIP, PA 15234



REV.	DATE	DESCRIPTION
1	3/11/14	CONSTRUCTION DOCUMENTS

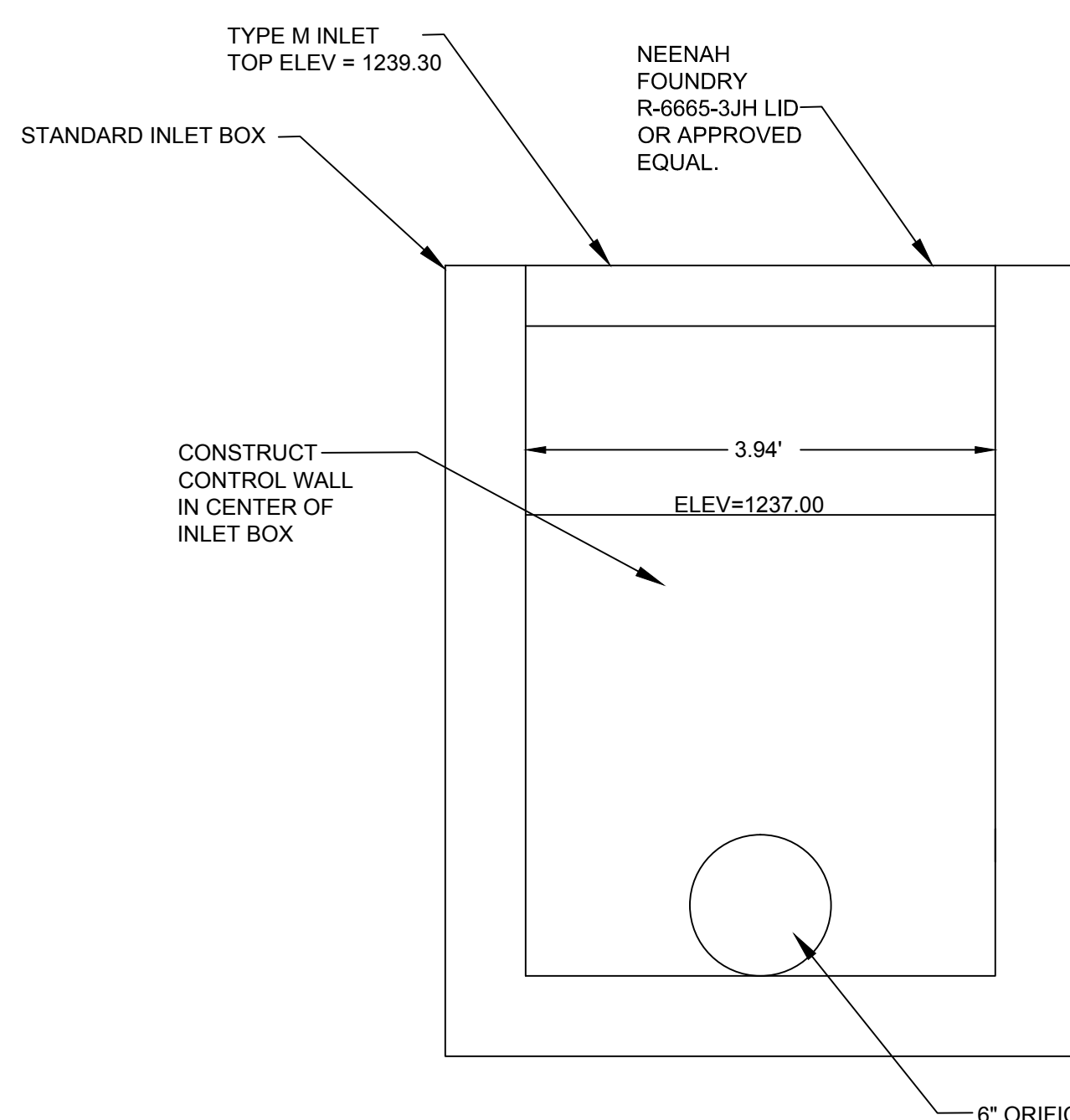
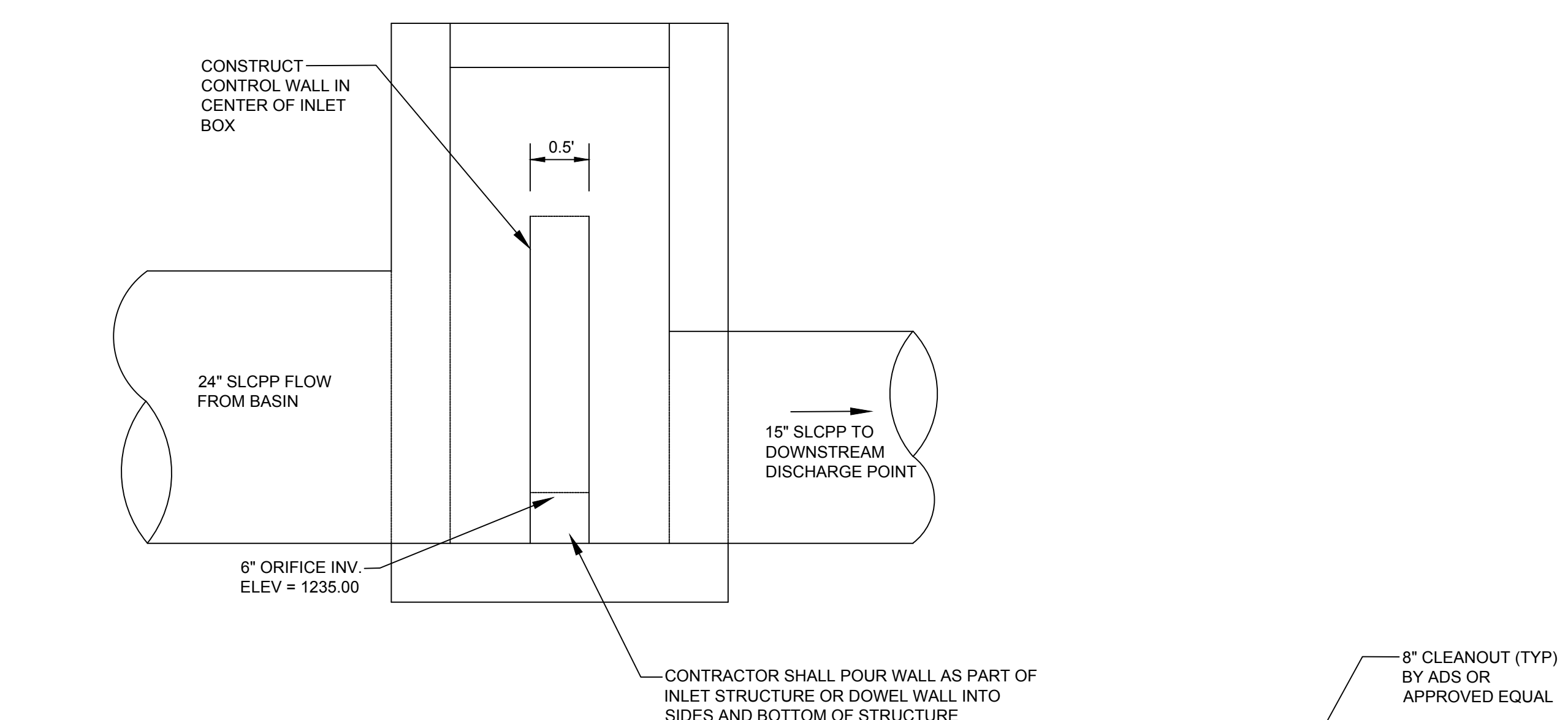
ISSUE: 1/16/2014  
PROJECT NO: 13-2200-0236  
SCALE: AS NOTED  
DRAWN BY: MAK  
CHECKED BY: GLS

© CDI Infrastructure, LLC dba L.R. Kimball

SHEET TITLE

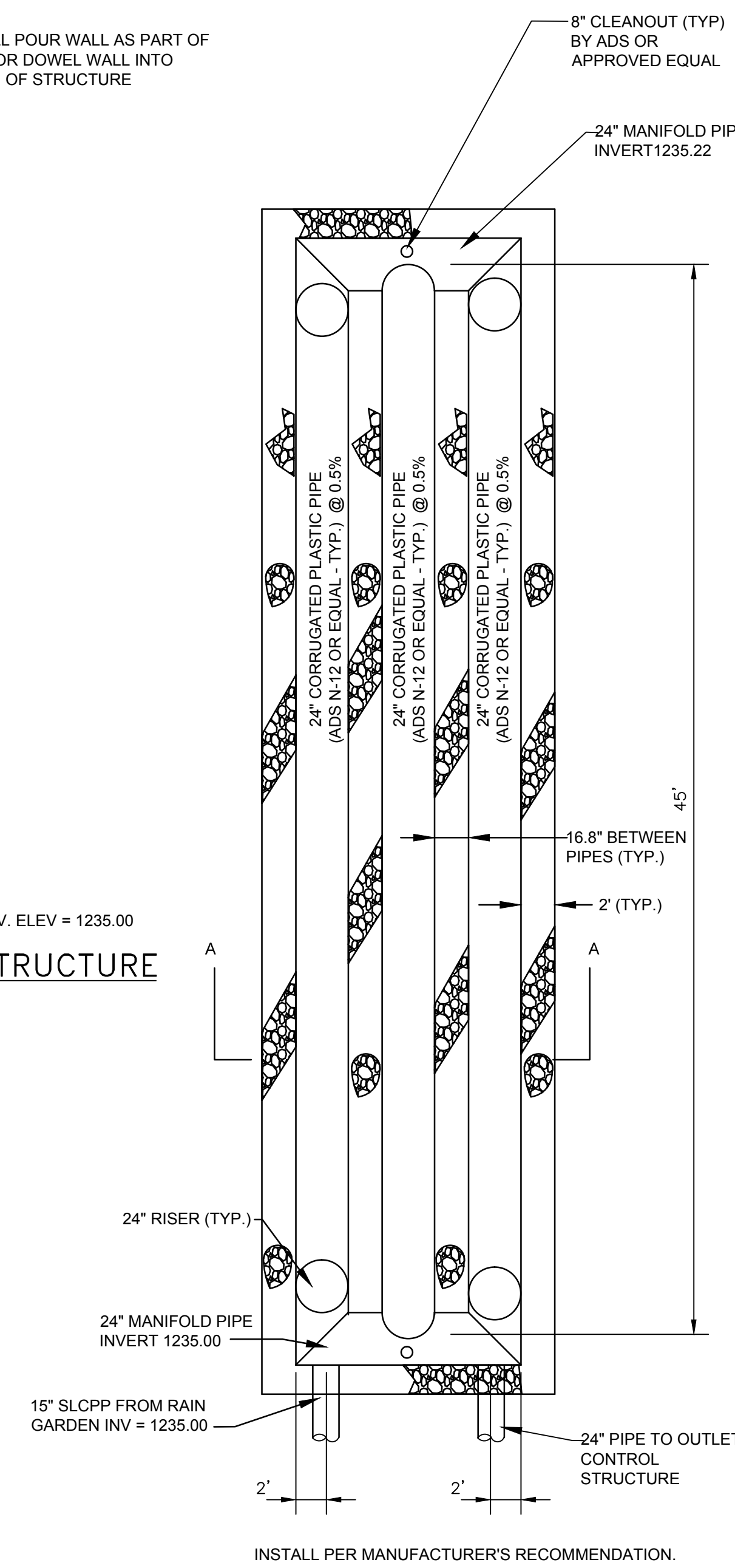
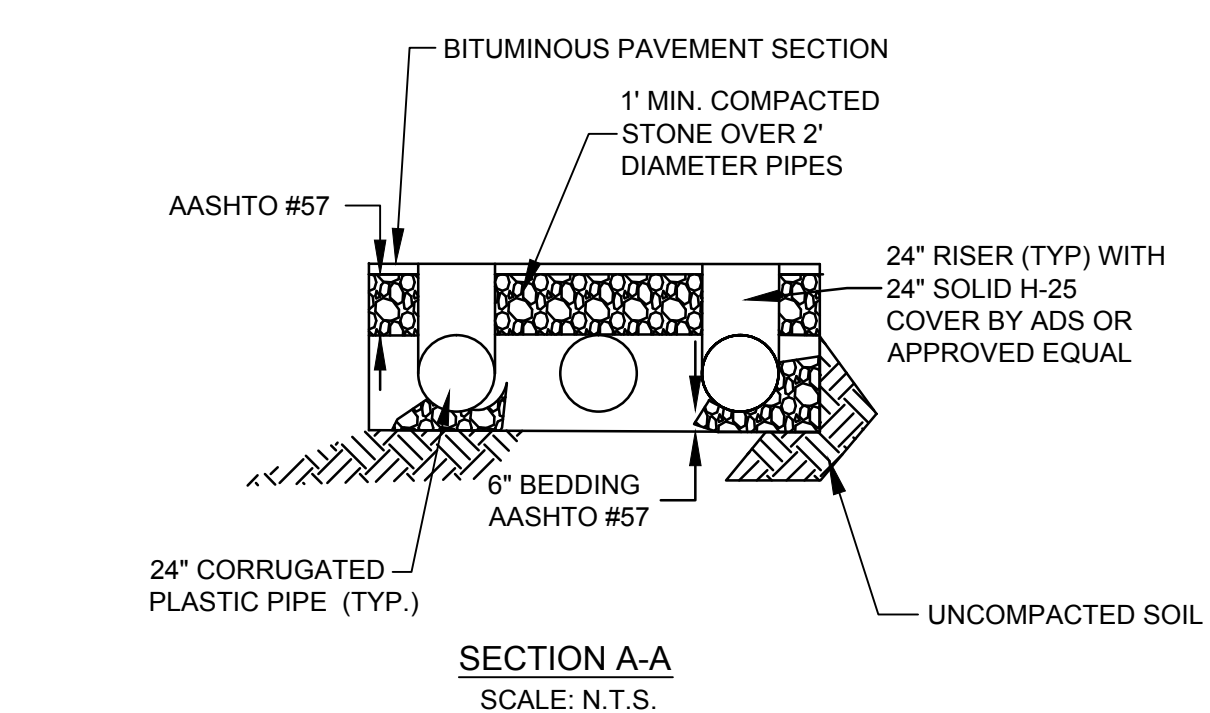
SITE DETAILS

**C513**



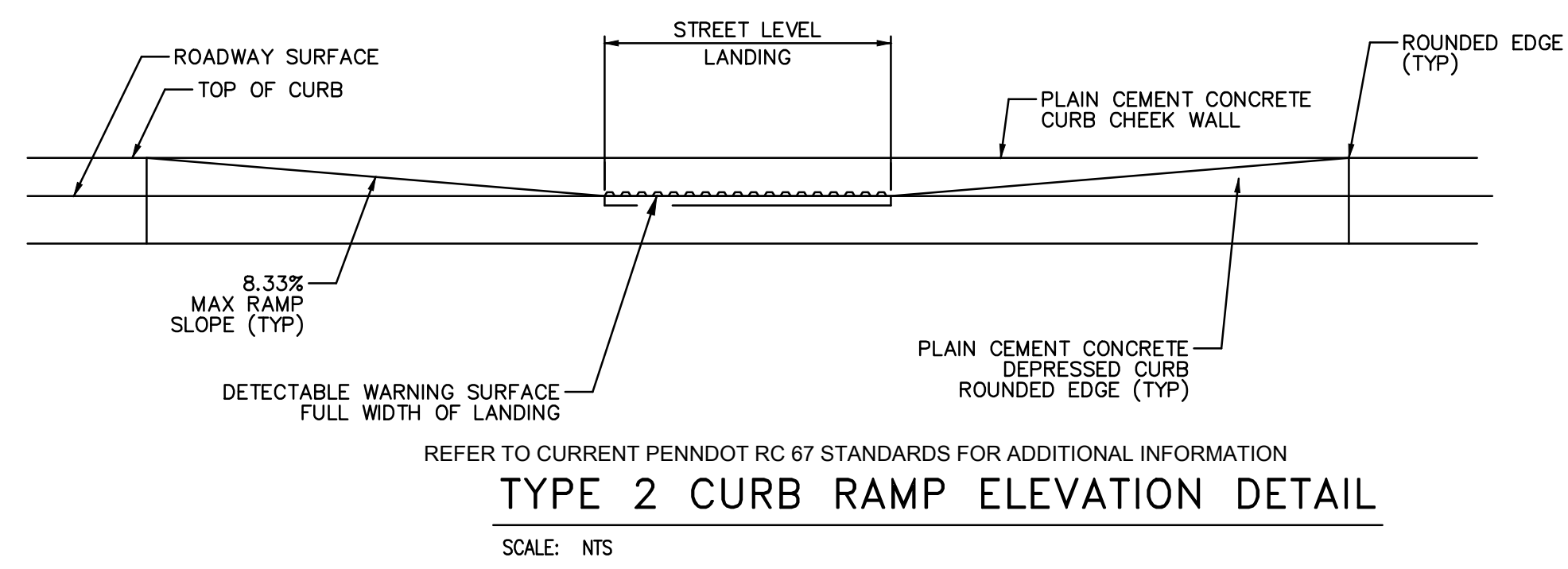
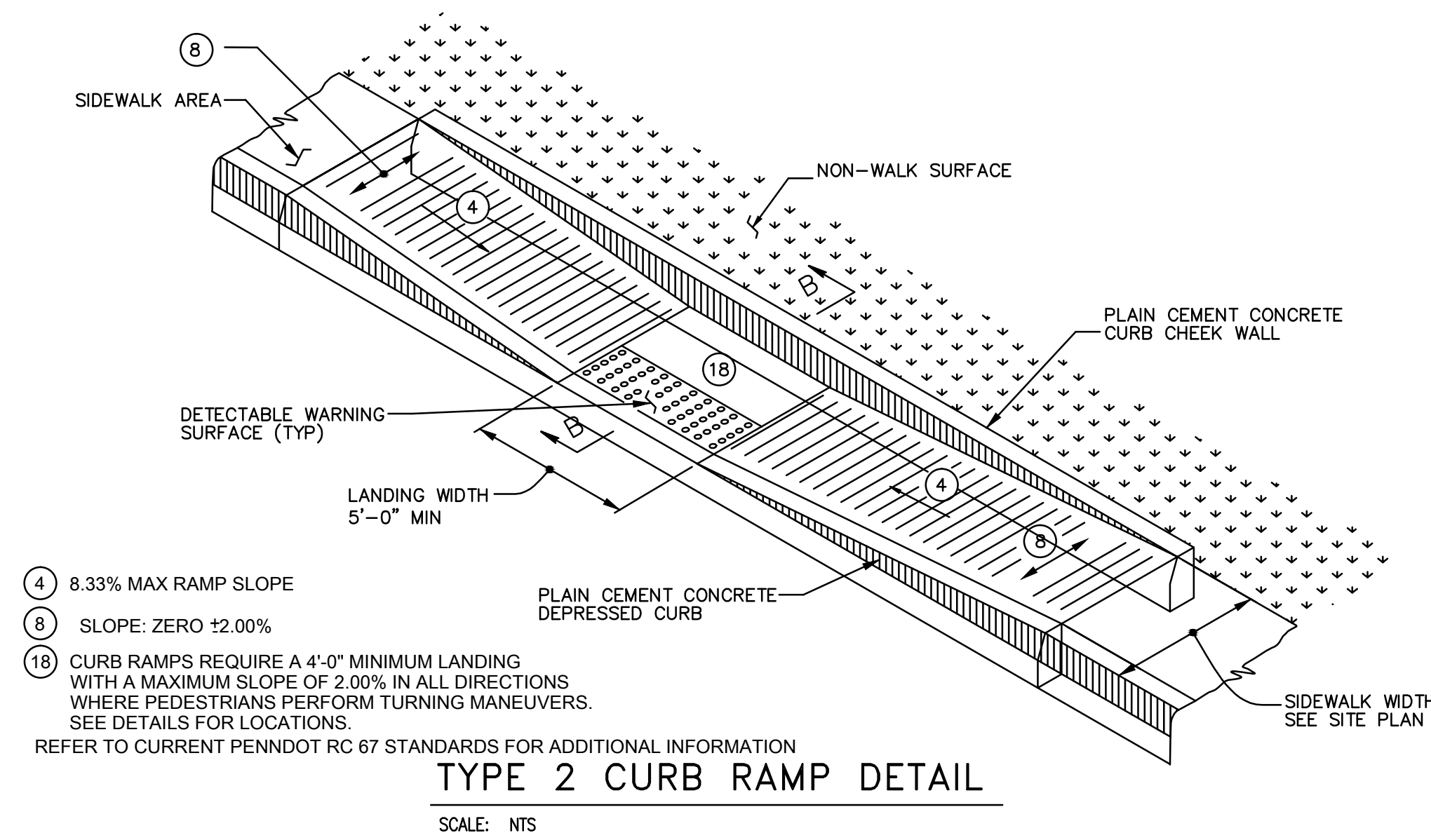
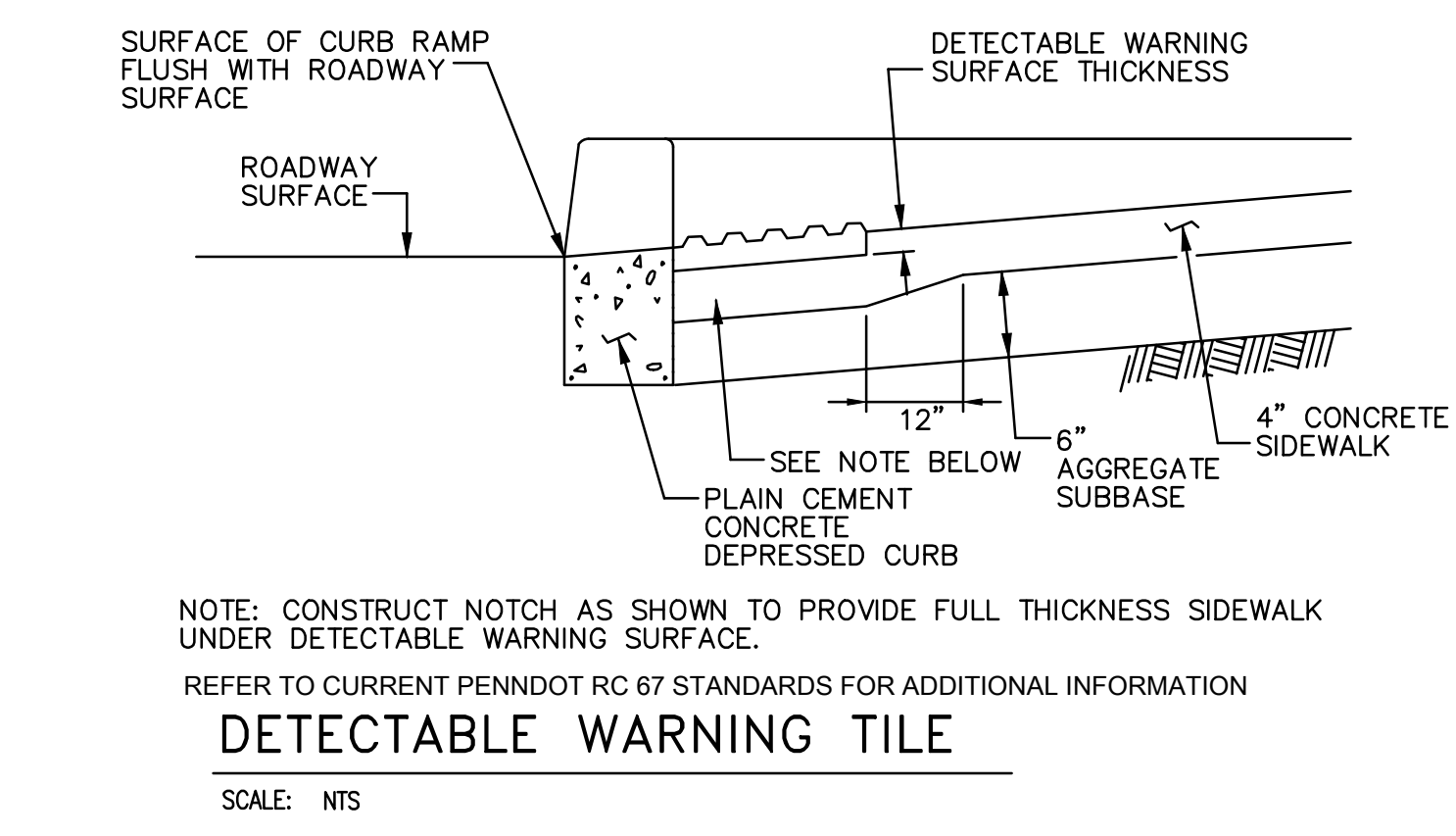
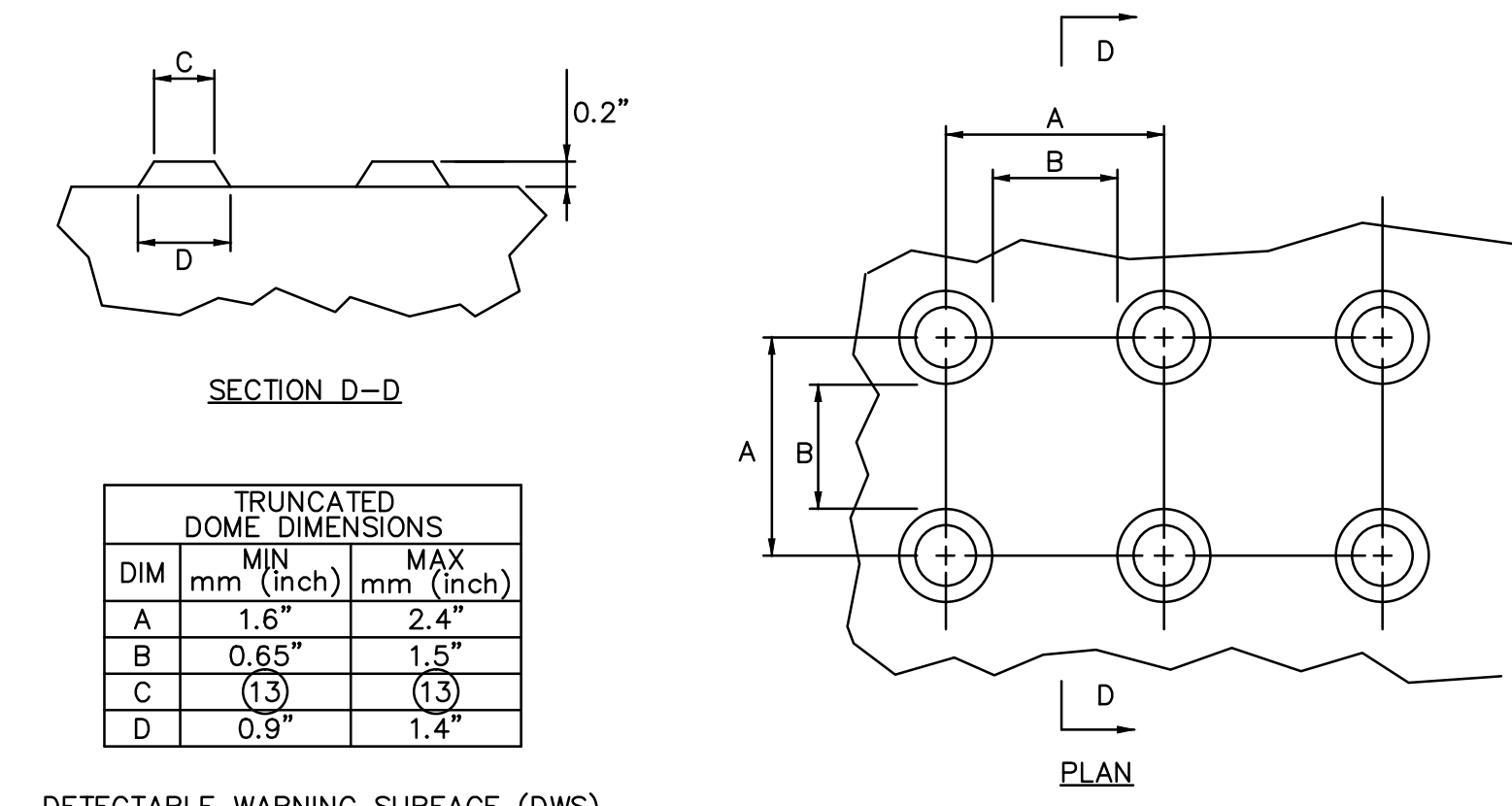
**UNDERGROUND DETENTION BASIN CONTROL STRUCTURE DRAINAGE AREA 2**

SCALE: NTS



**UNDERGROUND DETENTION BASIN DRAINAGE AREA 2**

SCALE: NTS



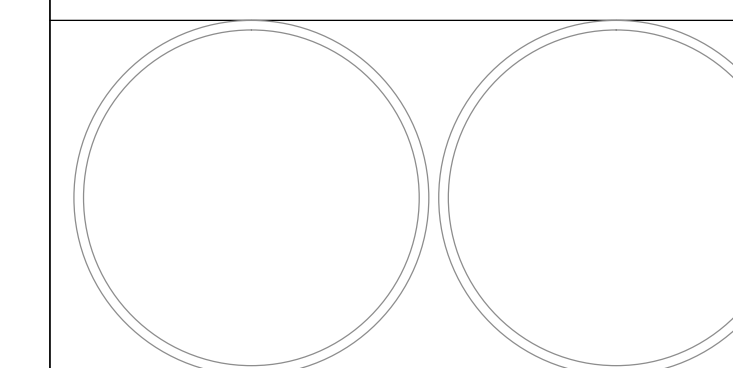


CONSULTANTS:

PROJECT NAME:  
**YOUNG SCHOLARS  
PARKING LOT  
PROJECT**

BALDWIN TOWNSHIP  
ALLEGHENY COUNTY, PA  
DEVELOPER:

YOUNG SCHOLARS  
WESTERN PA CHARTER SCHOOL  
600 NEWPORT DRIVE  
BALDWIN TOWNSHIP, PA 15234



1	3/11/14	CONSTRUCTION DOCUMENTS
REV.	DATE	DESCRIPTION

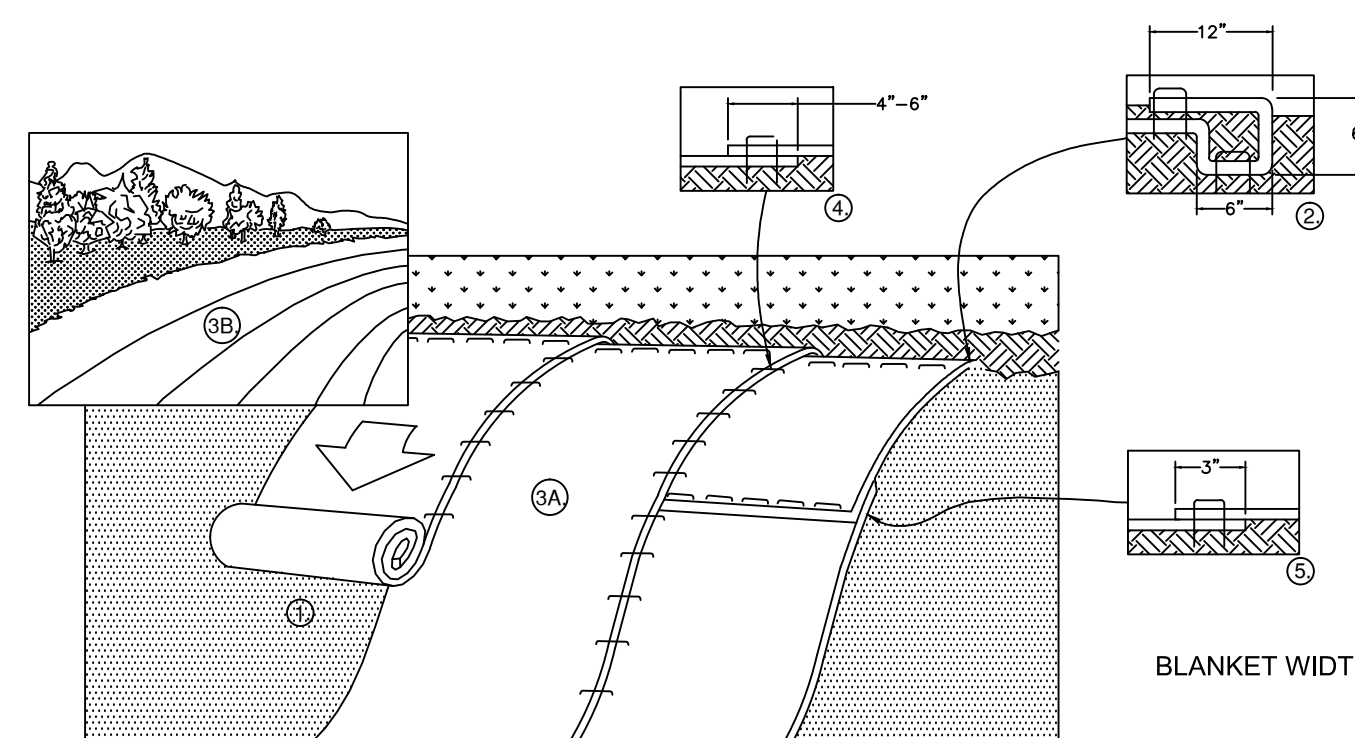
ISSUE:	1/16/2014
PROJECT NO:	13-2200-0236
SCALE:	AS NOTED
DRAWN BY:	MAK
CHECKED BY:	GLS

© CDI Infrastructure, LLC dba L.R. Kimball

SHEET TITLE

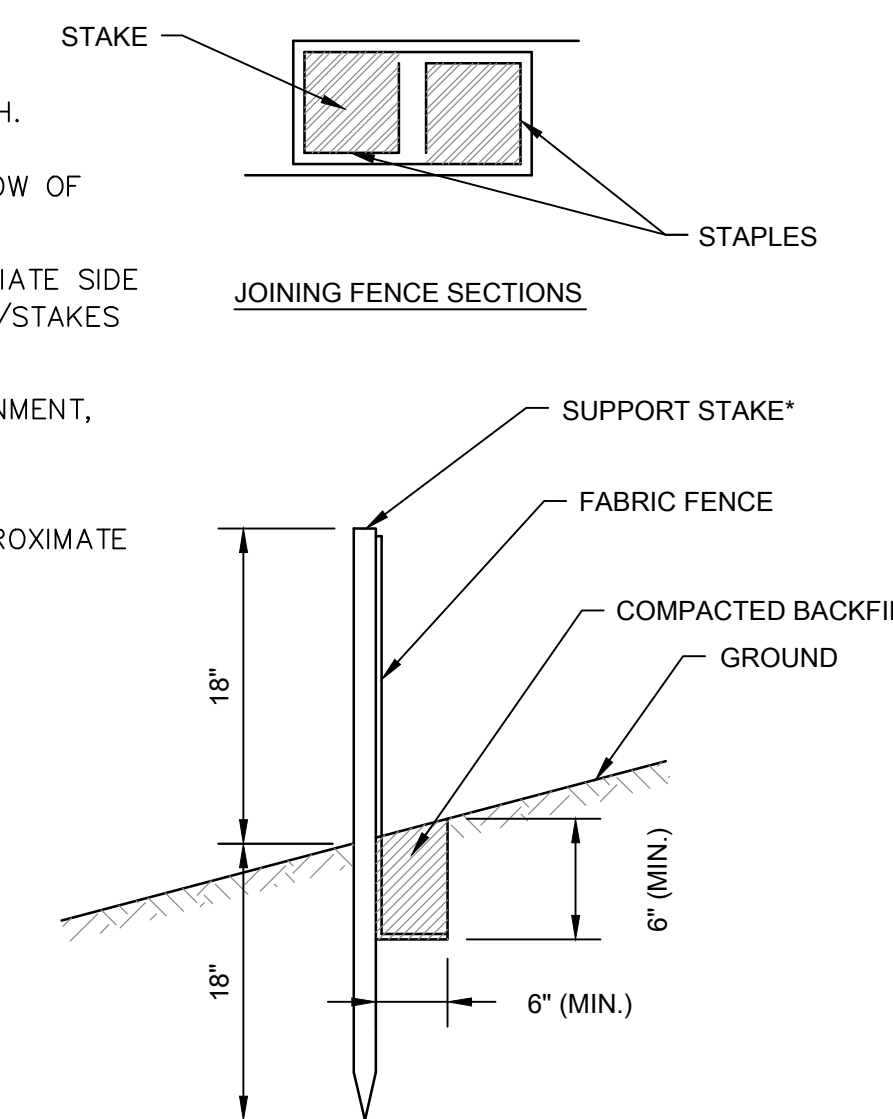
**EROSION AND  
SEDIMENTATION  
CONTROL DETAILS**

**C550**



- PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.
- BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" DEEP X 6" WIDE TRENCH WITH APPROXIMATELY 12" OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE BLANKET.
- ROLL THE BLANKETS (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE. BLANKETS WILL UNROLL WITH APPROPRIATE SLOPE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS PER MANUFACTURER'S RECOMMENDATION.
- THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH MINIMUM 6" OVERLAP. TO ENSURE PROPER SEAM ALIGNMENT, PLACE THE EDGE OF THE OVERLAPPING BLANKET (BLANKET BEING INSTALLED ON TOP) EVEN WITH THE SEAM STITCH ON THE PREVIOUSLY INSTALLED BLANKET.
- CONSECUTIVE BLANKETS SPICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART ACROSS ENTIRE.
- PLACE STAPLES/STAKES PER MANUFACTURER'S RECOMMENDATION FOR THE APPROPRIATE SLOPE BEING APPLIED.

- NOTES:
- IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY SECURE THE BLANKETS.
  - FOLLOW EROSION CONTROL TECHNOLOGY COUNCIL SPECIFICATION FOR PRODUCT SELECTION.



\* STAKES SPACED @ 8' MAXIMUM. USE 2" X 2" (ACTUAL SIZE, NOT NOMINAL) WOOD OR EQUIVALENT STEEL STAKES.

FILTER FABRIC FENCE MUST BE PLACED AT LEVEL EXISTING GRADE. BOTH ENDS OF THE BARRIER MUST BE EXTENDED AT LEAST 8 FEET UP SLOPE AT 45 DEGREES TO THE MAIN BARRIER ALIGNMENT.

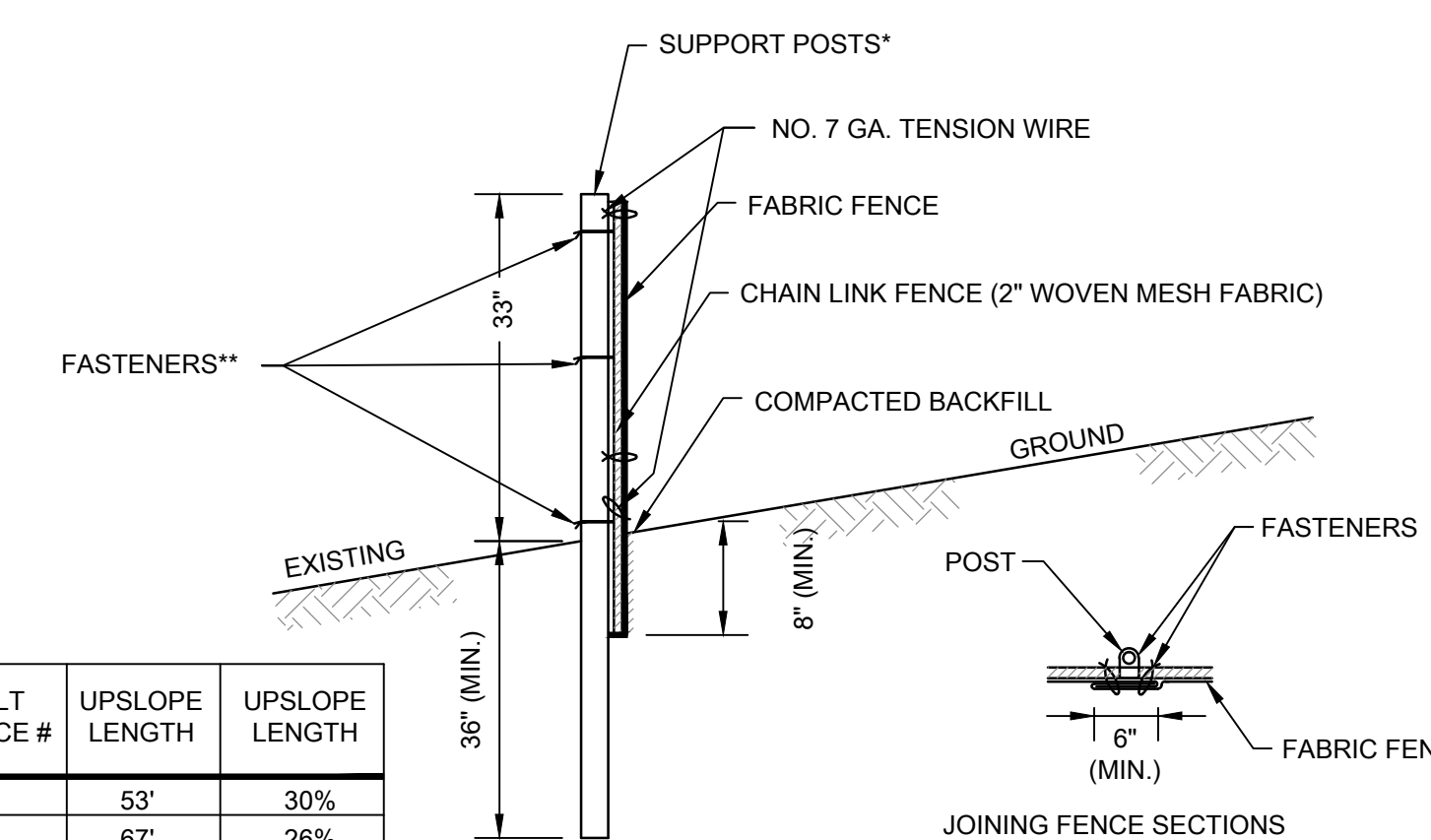
SEDIMENT MUST BE REMOVED WHEN ACCUMULATIONS REACH 1/2 THE ABOVE GROUND HEIGHT OF THE FENCE.

ANY SECTION OF FILTER FABRIC FENCE WHICH HAS BEEN UNDERMINED OR TOPPED MUST BE IMMEDIATELY REPLACED WITH A ROCK FILTER OUTLET.

SILT FENCE #	UPSLOPE LENGTH	UPSLOPE LENGTH
3	33'	15%
4	35'	13%
5	35'	11%
6	22'	18%
7	25'	18%
8	21'	20%

**STANDARD FILTER FABRIC FENCE (18" HIGH)**

SCALE: NTS



SILT FENCE #	UPSLOPE LENGTH	UPSLOPE LENGTH
1	53'	30%
2	67'	26%

\* POSTS SPACED @ 10' MAX. USE 2 1/2" DIA. GALVANIZED OR ALUMINUM POSTS. POST TO BE INSTALLED BY A POST-HOLE DRILLER, OR APPROVED EQUAL.

\*\* CHAIN LINK TO POST FASTENERS SPACED @ 14" MAX. USE NO. 6 GA. ALUMINUM WIRE OR NO. 8 GALVANIZED STEEL PRE-FORMED CLIPS. CHAIN LINK TO TENSION WIRE FASTENERS SPACED @ 60" MAX. USE NO. 10 GA. GALVANIZED STEEL WIRE. FABRIC TO CHAIN FASTENERS SPACED @ 24" MAX. C TO C.

NO. 7 GA. TENSION WIRE INSTALLED HORIZONTALLY AT TOP AND BOTTOM OF CHAIN-LINK FENCE.

FILTER FABRIC FENCE MUST BE PLACED AT EXISTING LEVEL GRADE. BOTH ENDS OF THE BARRIER MUST BE EXTENDED AT LEAST 8 FEET UPSLOPE AT 45 DEGREES TO THE MAIN BARRIER ALIGNMENT.

SEDIMENT MUST BE REMOVED WHEN ACCUMULATIONS REACH 1/2 THE ABOVE GROUND HEIGHT OF THE FENCE.

**SUPER FILTER FABRIC FENCE**

SCALE: NTS

**EROSION CONTROL BLANKET (SLOPE INSTALLATION)**

SCALE: NTS

**SEEDING TABLE**

SEED TYPE	DESCRIPTION, FORMULA, SPECIES	% BY WEIGHT	MINIMUM %		MAX % WEED SEED	SEEDING RATE: LBS./1000 S.F.	FERTILIZER RATE: LBS./1000 S.F.		LIME RATE: LBS./1000 S.F.	MULCH RATE:
			PURITY	GERMINATION			BASIC	STARTER		
TYPE 1 LAWN AREAS (PER PENNDOT SPECS)	PENNDOT FORMULA B *PERENNIAL RYEGRASS MIXTURE	20	98	90	0.15	0.44	15-10-10	40	89	3 TON/ACRE
	*CREEPING RED FESCUE	30	98	85	0.15	0.67				
	*KENTUCKY BLUEGRASS MIXTURE	50	98	80	0.20	1.2				
						TOTAL = 2.3				
TYPE 2 SLOPED AREAS GREATER THAN 3:1	*HARD FESCUE MIXTURE-A COMBINATION OF IMPROVED CERTIFIED VARIETIES WITH NO ONE VARIETY EXCEEDING 50% OF THE TOTAL HARD FESCUE COMPONENT	55	98	85	0.15	13	15-20		100	1 1/2" STRAW 3 TON/ACRE
	*CREEPING RED FESCUE	35	98	85	0.15	8.5				
	PENNDOT FORMULA L *ANNUAL RYEGRASS	10	98	90	0.15	2.5				
						TOTAL = 24				
TYPE 3 TEMPORARY SEEDING	ANNUAL RYEGRASS	100	98	90	0.15	1.1	15-20	125		3 TON/ACRE
						TOTAL = 1.1				

SEE SPECIFICATIONS FOR RAIN GARDEN SEEDING TYPES

**MULCHING NOTES**

1. STRAW SHALL BE UNROTTED, SMALL, GRAIN FREE OF ALL KINDS OF WEEDS AND PROHIBITIVE NOXIOUS WEEDS SUCH AS: THISTLES, JOHNSONGRASS AND QUACKGRASS.

2. WOOD CELLULOSE SHALL BE GREEN DYED AND AIR-DRIED WOOD CELLULOSE FIBERS, CONTAINING NO GROWTH OR GERMINATION INHIBITING SUBSTANCES. IN PACKAGES NOT EXCEEDING ONE HUNDRED POUNDS NET WEIGHT SHOWN ON PACKAGE AND MEETING THE FOLLOWING:

- A. MOISTURE CONTENT: 14% +/- 3%
- B. ORGANIC MATTER (OVEN DRIED BASIS): 98.6 +/- 0.2%
- C. ASH CONTENT: 1.4% +/- 0.2%
- D. WATER HOLDING CAPACITY: 100% MINIMUM

3. SHREDDED BARK SHALL BE SUITABLE FIBROUS GROUND, SHREDDED OR CHUNKS, AGED HARDWOOD BARK, FREE FROM VIABLE, NOXIOUS WEED SEEDS AND INSECT LIFE NOT DECOMPOSED AND BETWEEN 1/4" AND 2" IN DIMENSION

4. A. EMULSIFIED ASPHALT SHALL CONFORM TO PADOT STANDARDS CONTAINING NO SOLVENTS OR DILUTING AGENTS TOXIC TO PLANT LIFE AND NOT MORE THAN 0.75% OF SAPONIFIABLE ACIDS.

B. CUTBACK ASPHALT SHALL CONFORM TO PADOT STANDARDS.

C. NON ASPHALTIC EMULSION SHALL BE NATURAL VEGETABLE GUM BLENDED WITH JELLING AND HARDENING AGENTS (TERRA TACK AR) AS MANUFACTURED BY GRASS GROWERS COMPANY OR EQUAL.

D. OTHER MULCH BINDERS AS APPROVED BY THE PADEP BUREAU OF LAND AND WATER CONSERVATION.

**SEEDING TABLE AND MULCHING NOTES**

SCALE: NTS

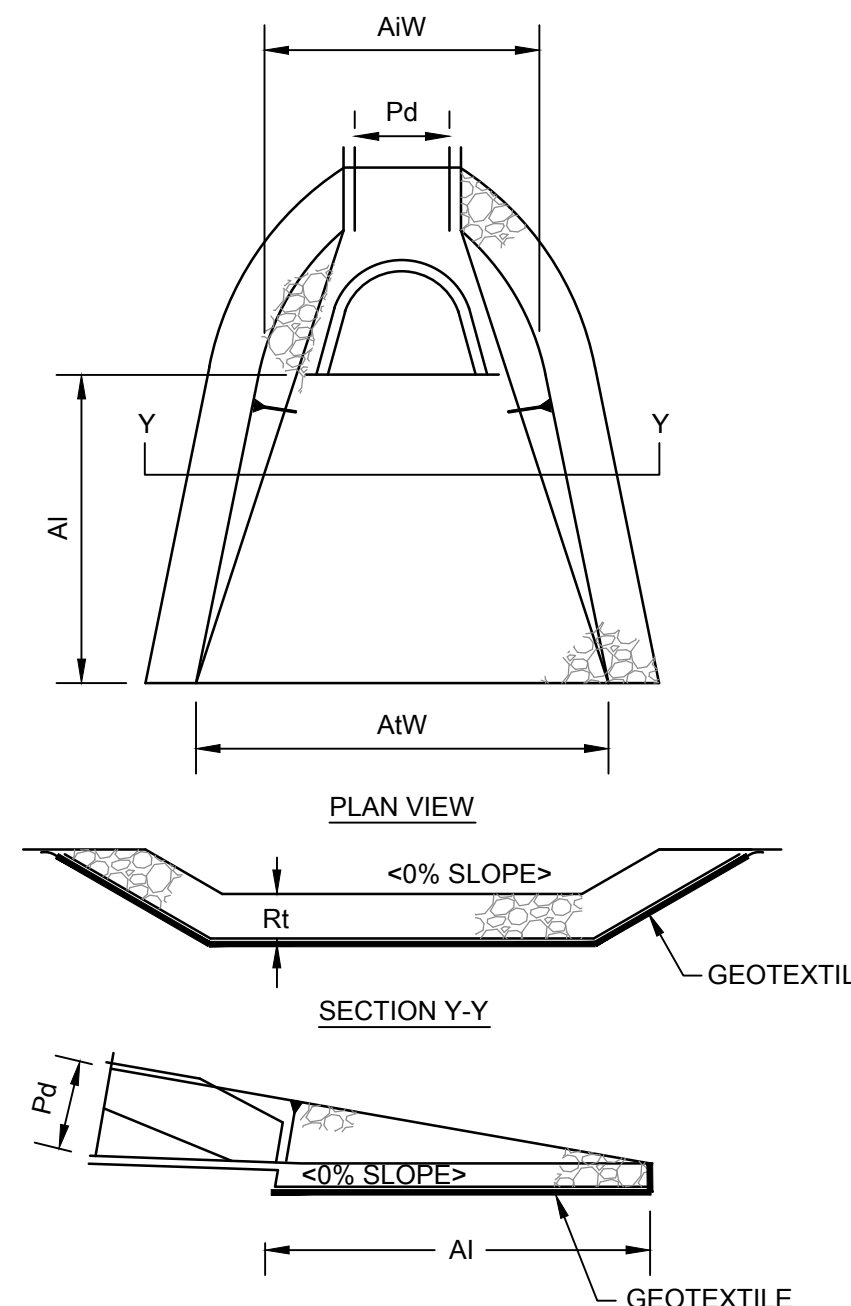
**EROSION AND SEDIMENTATION NOTES**

UNTIL THE SITE IS STABILIZED, ALL EROSION AND SEDIMENTATION CONTROLS MUST BE MAINTAINED PROPERLY. MAINTENANCE MUST INCLUDE INSPECTIONS OF ALL EROSION AND SEDIMENTATION CONTROLS AFTER EACH STORM EVENT AND ON A WEEKLY BASIS. ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN OUT, REPAIR, REPLACEMENT, REMULCHING, AND RENETTING MUST BE PERFORMED IMMEDIATELY.

SHOULD ANY MEASURE CONTAINED WITHIN THIS PLAN PROVE INCAPABLE OF ADEQUATELY REMOVING SEDIMENT FROM ON-SITE FLOWS PRIOR TO DISCHARGE OR OF STABILIZING THE SURFACES INVOLVED, ADDITIONAL MEASURES MUST BE IMMEDIATELY IMPLEMENTED BY THE PROPERTY OWNER TO ELIMINATE ALL SUCH PROBLEMS.

AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED, TEMPORARY EROSION AND SEDIMENTATION CONTROLS MUST BE REMOVED. AREAS DISTURBED DURING REMOVAL OF THE CONTROLS MUST BE STABILIZED.

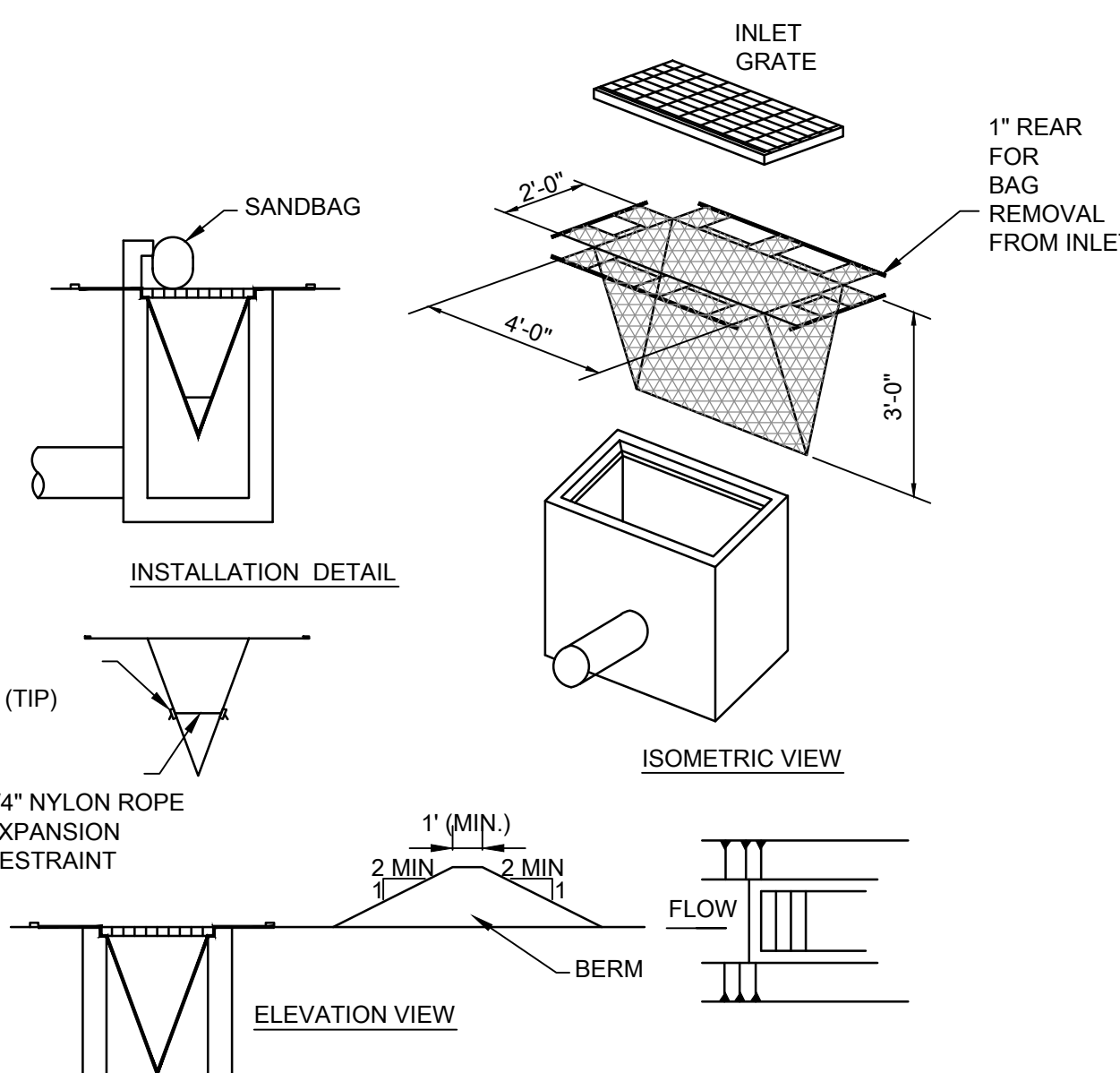
PER SOIL MAPPING, THE ONLY SOIL LOCATED WITHIN THE LIMIT OF DISTURBANCE IS URBAN LAND-GUERNSEY COMPLEX (UGD). THIS URBAN SOIL IS UNCLASSIFIED AND HAS NO CHARACTERISTICS DOCUMENTED.



APRON #	PIPE DIA Pd (IN)	APRON				RIPRAP SIZE (R-)
		LENGTH Ai (FT)	INITIAL WIDTH AiW (FT)	TERMINAL WIDTH Atw (FT)	RIPRAP SIZE (R-)	
1	15	8	3.75	11.75	R-3	
2	15	8	3.75	11.75	R-3	

**RIPRAP APRONS AT PIPE OUTLETS WITH FLARED END SECTIONS DETAIL**

SCALE: NTS



MAXIMUM DRAINAGE AREA = 1/2 ACRE.

INLET PROTECTION IS NOT REQUIRED FOR INLET TRIBUTARY TO SEDIMENT BASIN OR TRAP. BERMS REQUIRED FOR ALL INSTALLATIONS.

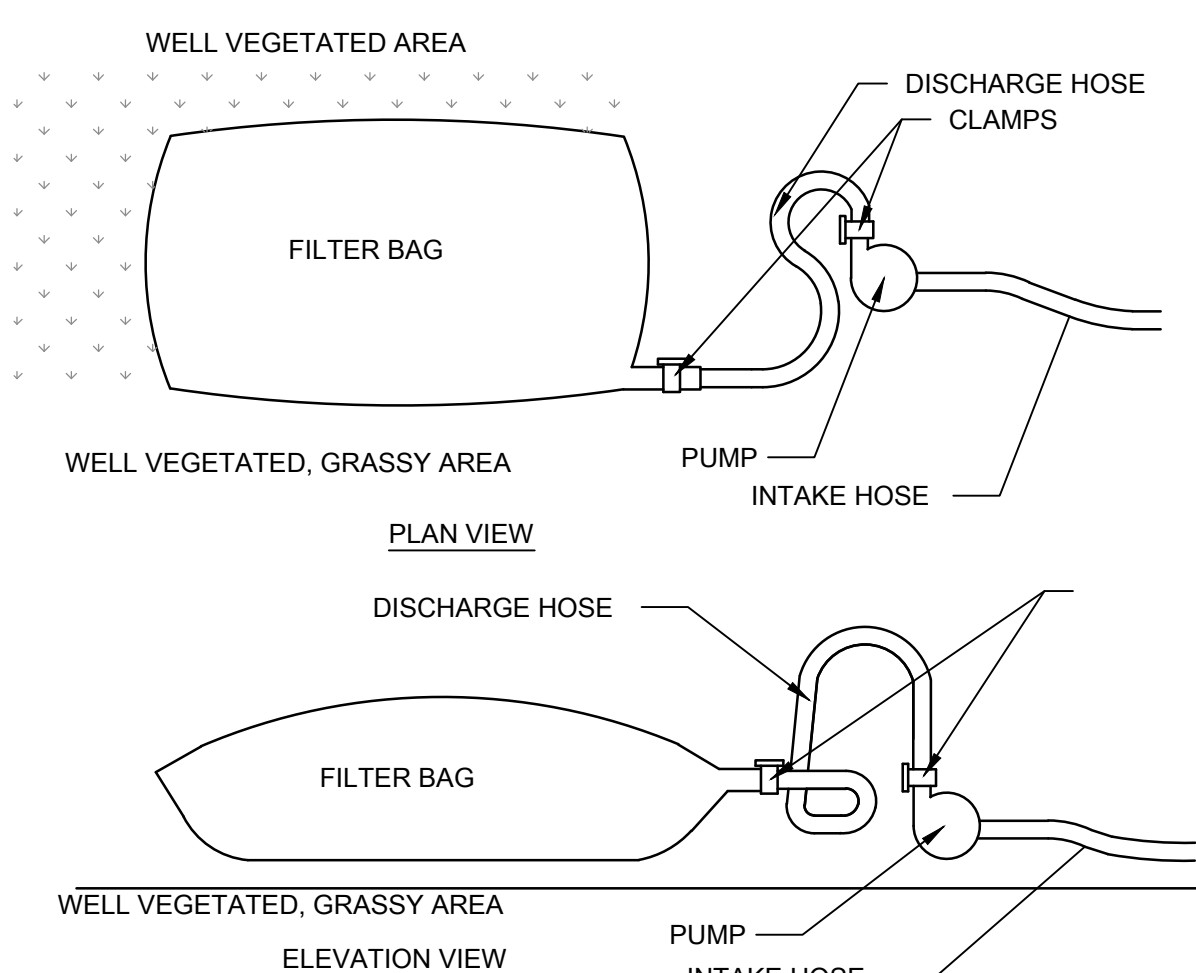
EARTHEN BERM IN ROADWAY SHALL BE MAINTAINED UNTIL ROADWAY IS STONED. ROAD SUB'S BERM ON ROADWAY SHALL BE MAINTAINED UNTIL ROADWAY IS PAVED. EARTHEN BERM IN CHANNEL SHALL BE MAINTAINED UNTIL PERMANENT STABILIZATION IS COMPLETED OR TO REMAIN PERMANENTLY.

DO NOT USE ON MAJOR PAVED ROADWAYS WHERE POUNDING MAY CAUSE TRAFFIC HAZARDS

INLET FILTER BAGS SHALL BE LOW FLOW FILTER BAGS.

**FILTER BAG INLET PROTECTION**

SCALE: NTS



**NOTES:**

- FILTER BAGS SHALL BE MADE FROM NON-WOVEN GEOTEXTILE MATERIAL SEWN WITH HIGH STRENGTH, DOUBLE STITCHED "J" TYPE SEAMS. THEY SHALL BE CAPABLE OF TRAPPING PARTICLES LARGER THAN 150 MICRONS.
- A SUITABLE MEANS OF ACCESSING THE BAG WITH MACHINERY REQUIRED FOR DISPOSAL PURPOSES MUST BE PROVIDED. FILTER BAGS SHALL BE REPLACED WHEN THEY BECOME 1/2 FULL. SPARE BAGS SHALL BE KEPT AVAILABLE FOR REPLACEMENT OF THOSE THAT HAVE FAILED OR ARE FILLED.
- BAGS SHALL BE LOCATED IN WELL VEGETATED (GRASSY) AREA, AND DISCHARGE ONTO STABLE, EROSION RESISTANT AREAS. WHERE THIS IS NOT POSSIBLE, A GEOTEXTILE FLOW PATH SHALL BE PROVIDED. BAGS SHALL NOT BE PLACED ON SLOPES GREATER THAN 5%.
- THE PUMP DISCHARGE HOSE SHALL BE INSERTED INTO THE BAGS IN THE MANNER SPECIFIED BY THE MANUFACTURER AND SECURELY CLAMPED.
- THE PUMPING RATE SHALL BE NO GREATER THAN 750 GPM OR 1/2 THE MAXIMUM SPECIFIED BY THE MANUFACTURER, WHICHEVER IS LESS. PUMP INTAKES SHOULD BE FLOATING AND SCREENED.

**PUMPED WATER FILTER BAG**

SCALE: NTS



