

DWG: F:\2017\2001-2500\017-2345\40-Design\AutoCAD\Pre\017-2345.dwg
DATE: Oct 02, 2017 1:23pm
USER: sveseler
017-2345 Topo Baseomp
ANDREA_PAGE_PE_AZ
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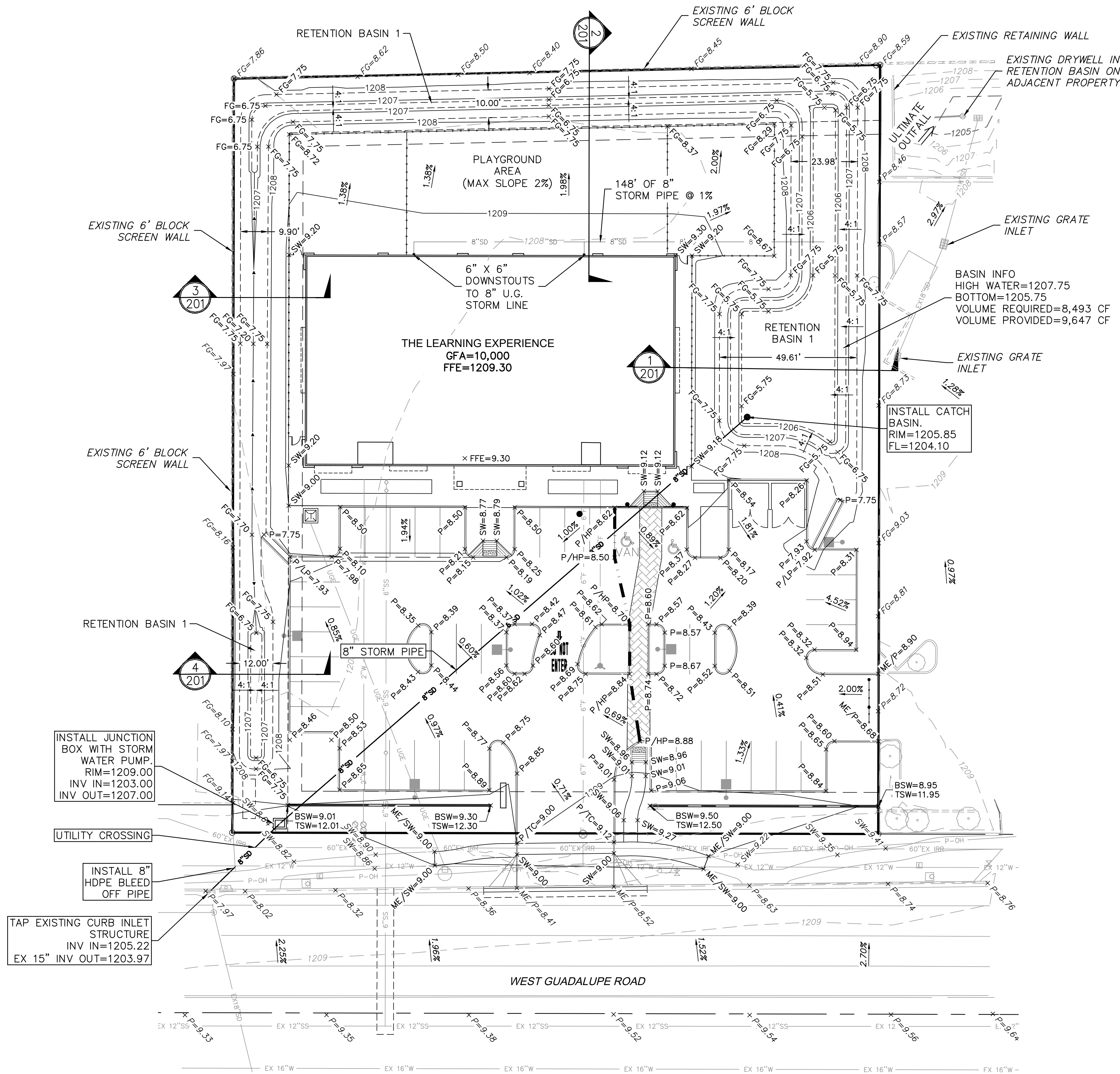
The Learning Experience - Mesa AZ

Retention Calculations

Tributary Area Designation	Total Area (sf)	Total Area (ac)	Concrete/ Tile Roof (C=.95) (sf)	Asphalt Pavement (C=.85) (sf)	Playground Area Desert Landscaping (C=0.70) (sf)	Desert Landscaping (C=0.50) (sf)	Weighted C	Retention Depth (in)	Volume Required (cf)	Volume Provided (cf)
A	64,014	1.47	13,491	19,010	7,964	23,549	0.72	2.2	8,493	9,647

DRAINAGE STATEMENT:

THIS SITE DRAINS INTO ONE CONNECTED BASIN WITH A HIGH WATER ELEVATION OF 1207.75 AND MINIMUM ELEVATION OF 1205.75. A LARGE PORTION OF THE BASIN WILL HAVE A DEPTH OF 1' TO ENCOURAGE ONSITE PERCOLATION. A GRATE WILL BE LOCATED IN THE BASIN THAT WILL DRAIN THE RETENTION BASIN AND RUNOFF WILL GRAVITY FLOW OUT TO A JUNCTION BOX WHERE STORM WATER WILL BE PUMPED UP INTO A BLEED OFF PIPE AND INTO THE CITY STORM SEWER THROUGH TAPPING AN EXISTING CURB INLET STRUCTURE.



GRADING NOTES:

- CONTRACTOR TO VERIFY LOCATIONS AND INVERTS OF ALL EXISTING UTILITIES 72 HOURS PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF DISCREPANCIES FROM PLANS.
- ALL SPOT POINTS ARE TO FINISHED GRADE, TOP OF PAVEMENT, ETC.
- ALL SPOT POINTS ON FACE OF CURB ARE AT GUTTER ELEVATION.
- SPOT ELEVATIONS ARE TRUNCATED REMOVING HUNDREDTHS AND THOUSANDTHS PLACE FOR PLAN CLARITY

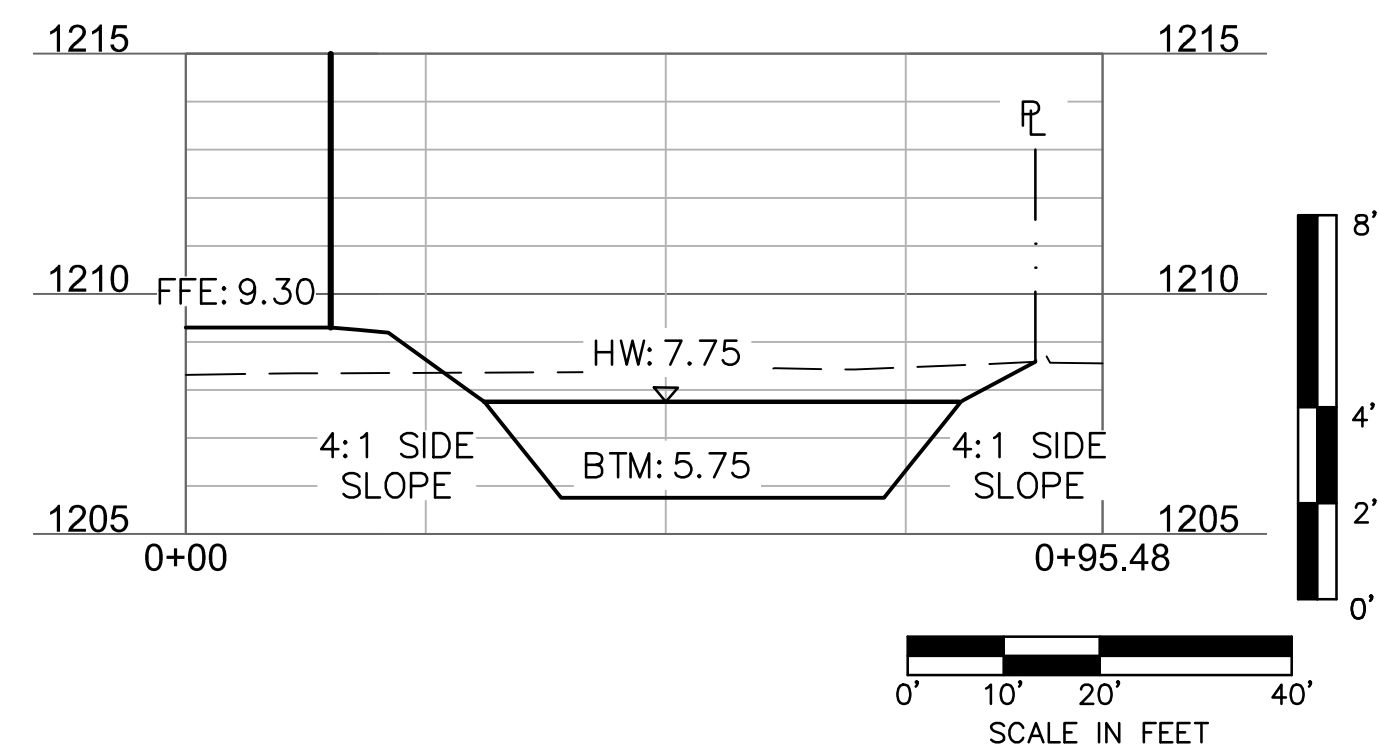
GRADING LEGEND

LINES TYPES	
EXISTING MAJOR CONTOUR	1085
EXISTING MINOR CONTOUR	1086
PROPOSED MAJOR CONTOUR	1085
PROPOSED MINOR CONTOUR	1086
GRADE BREAK, RIDGE LINE, OR VALLEY LINE	

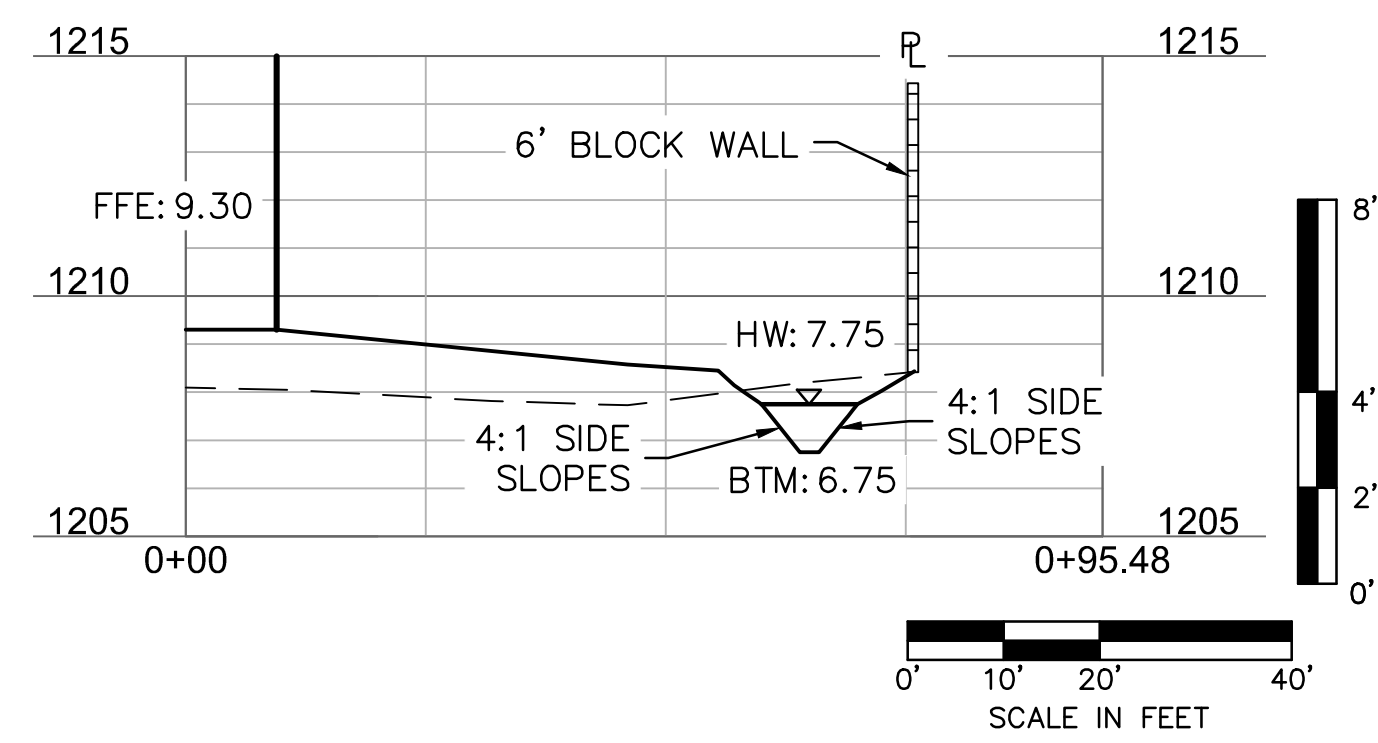
SPOT GRADES

MATCH EXISTING GRADE	ME=XX.XX
FINISHED GRADE GROUND	FG=XX.XX
FLOW LINE	FL=XX.XX
HIGH POINT	HP=XX.XX
LOW POINT	LP=XX.XX
GRADE BREAK	GB=XX.XX
TOP OF CURB	TC=XX.XX
TOP OF PAVEMENT	P=XX.XX
RIM ELEVATION	RIM=XX.XX
GRATE ELEVATION	GR=XX.XX
SIDEWALK GRADE	SW=XX.XX
FINISHED FLOOR ELEVATION	FFE=XX.XX
BOTTOM SCREEN WALL @ FG	BSW=XX.XX
TOP SCREEN WALL	TSW=XX.XX

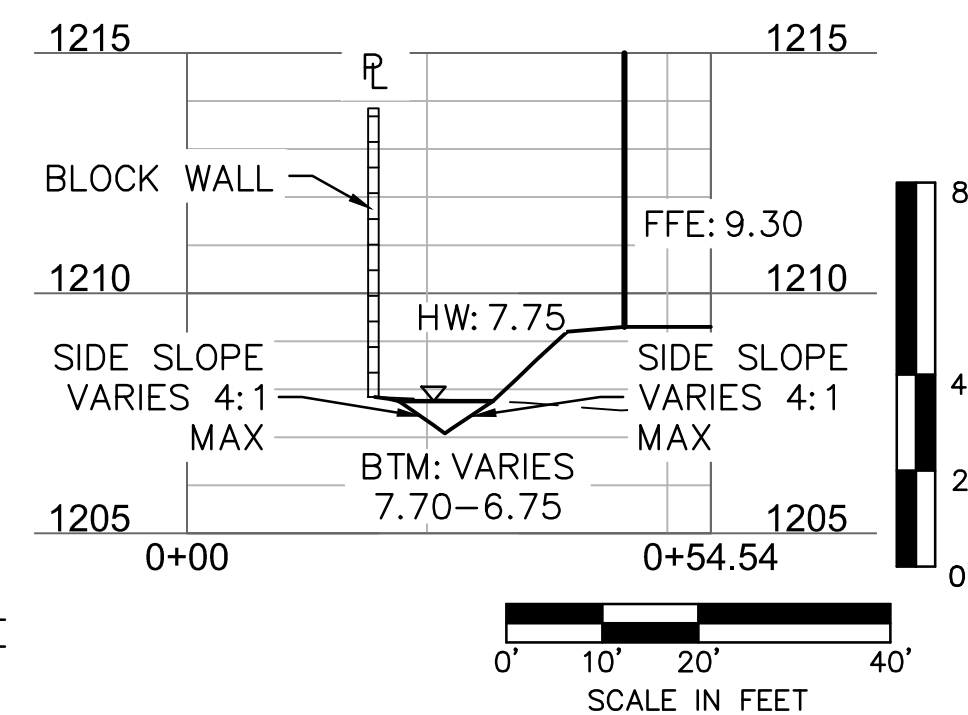
SECTION 1



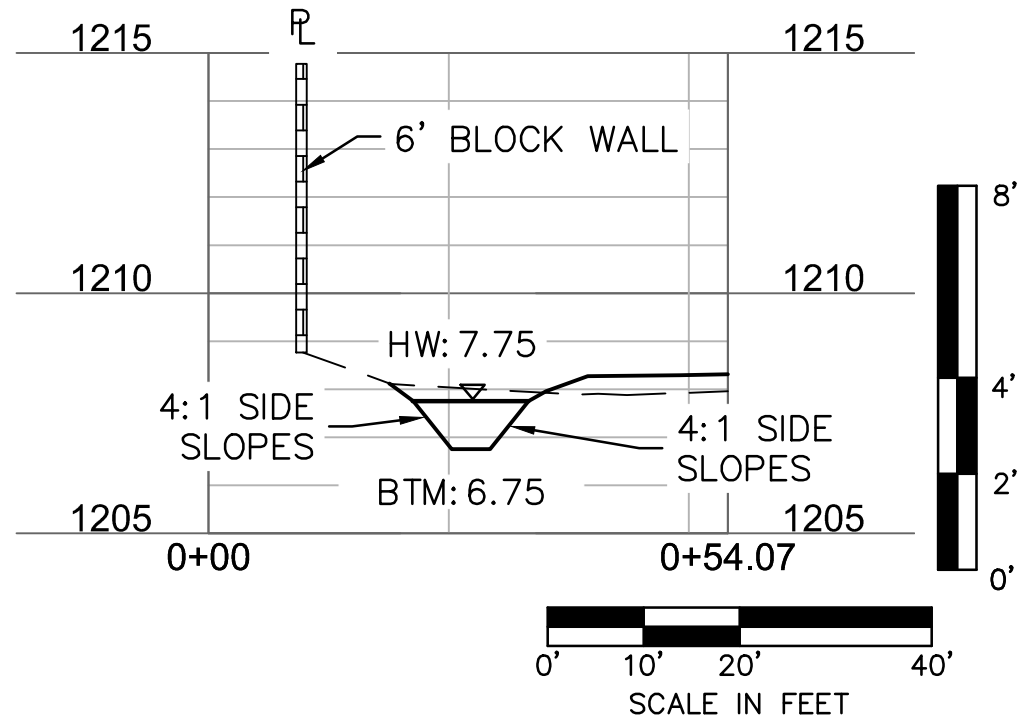
SECTION 2



SECTION 3



SECTION 4



Call at least two full working days before you begin excavation.
ARIZONA 811
Arizona Blue Stake, Inc.
Dial 8-1-1 or 1-800-STAKE-IT (782-5348)
In Maricopa County: (602) 263-1100



EXPIRES 06/30/2020

REVISIONS	
REV. NO.	DESCRIPTION

PRELIMINARY IMPROVEMENT PLANS
GRADING AND DRAINAGE PLAN
THE LEARNING EXPERIENCE
430 WEST GUADALUPE ROAD
MESA, ARIZONA

drawn by: SS/SJV
checked by: EWS/SJV
project no.: 017-2345
date: 10.02.17

SHEET C201
3 of 4

CASE # PRS17-00057