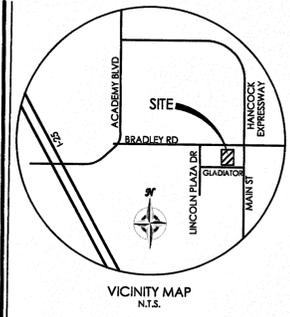


SITE DEVELOPMENT PLAN FOR THE TOWNHOMES AT BRADLEY CROSSROADS

LOT 1A, BRADLEY CROSSROADS FILING NO. 1B
LOCATED IN THE SOUTHEAST QUARTER OF THE SOUTHEAST QUARTER OF SECTION 2, TOWNSHIP 15 SOUTH, RANGE 66 WEST OF THE 6TH P.M.,
EL PASO COUNTY, COLORADO

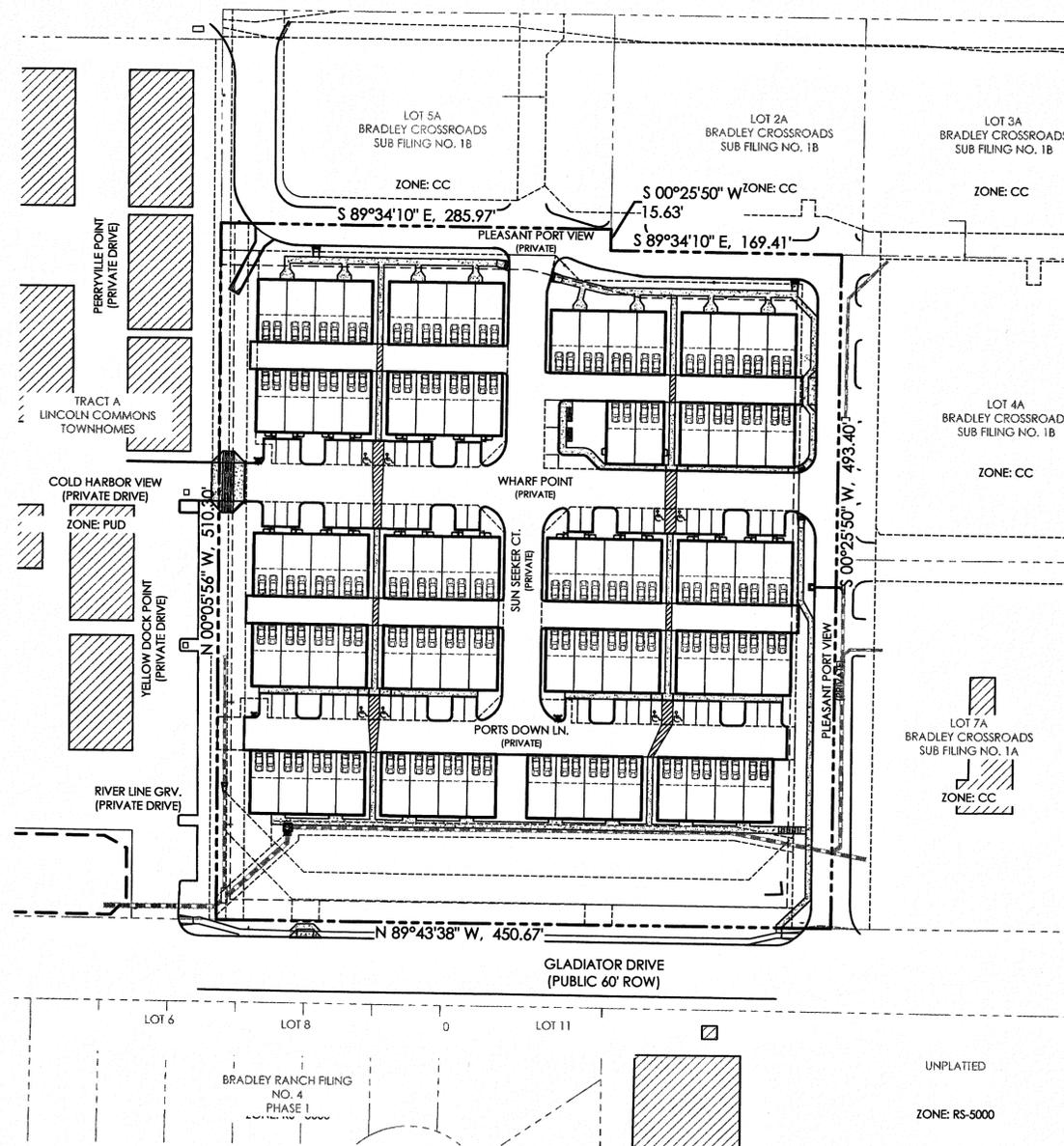


LEGEND

	PROPERTY LINE		EASEMENT LINE
	LOT LINE		BUILDING SETBACK LINE
	ADJACENT PROPERTY LINE		
EXISTING			
	-5985 INDEX CONTOUR		-84 INTERMEDIATE CONTOUR
	CONCRETE AREA		ASPHALT AREA
	CURB AND GUTTER		BUILDING/ BUILDING OVERHANG
	DECK		RETAINING WALL - SOLID/ ROCK
	SIGN		BOLLARD
	WOOD FENCE		CHAIN LINK FENCE
	BARBED WIRE FENCE		TREE (EVERGREEN/DECIDUOUS)
	SHRUB		ROCK
PROPOSED			
	-5985 INDEX CONTOUR		-84 INTERMEDIATE CONTOUR
	CONCRETE AREA		ASPHALT AREA
	CURB AND GUTTER		BUILDING/ BUILDING OVERHANG
	DECK		RETAINING WALL - SOLID/ ROCK
	SIGN		BOLLARD
	WOOD FENCE		CHAIN LINK FENCE
	BARBED WIRE FENCE		TREE (EVERGREEN/DECIDUOUS)
	SHRUB		ROCK
	2515 LARAMIE DRIVE BUILDING ADDRESS (100)		UNIT ADDRESS
	FIRE LANE		

SITE DATA

OWNER J. ELLIOT HOMES, INC. 12218 CRYSTAL DOWNS ROAD PEYTON, CO 80831	COVERAGE DATA
DEVELOPER J. ELLIOT CONSTRUCTION 4310 YELLOW DOCK POINT SECURITY, CO 80825	20 TOWNHOME BUILDINGS (78 - 3 BEDROOM UNITS) 38,640 SF 16.9%
CONSULTANT/ENGINEER M.V.E., INC. 1903 LELARAY STREET, SUITE 200 COLORADO SPRINGS, CO 80909 (719) 635-5736	PAVEMENT (PARKING/WALK) 124,281 SF 54.5%
SURVEYOR POLARIS SURVEYING, INC. 1903 LELARAY STREET, SUITE 102 COLORADO SPRINGS, CO 80909 (719) 448-0844	LANDSCAPING 65,320 SF 28.6%
ZONING RESIDENTIAL MULTI-DWELLING (RM-30)	TOTAL AREA 228,241 SF 100.0% = 5.240± ACRES
BUILDING USE TOWN HOMES	PARKING DATA
CONSTRUCTION SCHEDULE START: FALL, 2018 FINISH: WINTER, 2019	20 MULTIFAMILY BUILDINGS w/ 78 - 3 BEDROOM UNITS
TAX SCHEDULE NO. 6502407102	MULTI FAMILY REQUIRED: 2.0 SPACES / 1 UNIT = 2.0 X 78 = 26
PROPERTY ADDRESS 4735 BRADLEY ROAD COLORADO SPRINGS, CO 80911	GUEST REQUIRED: 1 SPACE / 3 UNITS = 78 / 3 = 26
LEGAL DESCRIPTION	HANDICAP REQUIRED: = 6
LOT 1A, BRADLEY CROSSROADS FILING NO. 1B AS RECORDED AT RECEPTION NO. 218714143 OF THE RECORDS OF EL PASO COUNTY, COLORADO, MORE PARTICULARLY DESCRIBED AS FOLLOWS:	TOTAL SPACES REQUIRED: = 188
THE FOLLOWING COURSES AND DISTANCES ARE ALONG THE WEST, NORTH, EAST AND SOUTH LINES OF SAID LOT 1A:	PROVIDED:
BEGINNING AT THE SOUTHWEST CORNER OF BRADLEY CROSSROADS FILING NO. 2B, THENCE N00°05'56"W, 510.30 FEET;	GARAGES: = 156
THENCE S89°34'10"E, 285.97 FEET;	OUTSIDE PARKING (GUEST): = 65
THENCE S00°25'50"W, 15.63 FEET;	VAN ACCESSIBLE HANDICAP: = 8
THENCE S89°34'10"E, 169.41 FEET;	TOTAL SPACES PROVIDED: = 221 SPACES
THENCE S00°25'50"W, 493.40 FEET;	BUILDING TYPE
THENCE N89°43'38"W, 450.67 FEET TO THE POINT OF BEGINNING;	BUILDING AREA - 3,864 SF
CONTAINING A CALCULATED AREA OF 5.240 ACRES, MORE OR LESS.	TWO STORY - TYPE II-B
	NOT FIRE SPRINKLED / NO FIRE WALLS
	BUILDING HEIGHT
	40 FT MAX. (TWO STORY)
	SET BACKS
	25' FRONT (PLEASANT PORT VIEW (NORTH) & GLADIATOR DRIVE)
	15' SIDE



SHEET INDEX:

SITE DEVELOPMENT PLAN	
DP-1	COVER SHEET
DP-2	SITE PLAN
DP-3	ADA ROUTE PLAN
DP-4	SITE DETAILS
GRADING & EROSION CONTROL PLAN	
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C1.2	GRADING PLAN (NORTH)
C1.3	GRADING PLAN (SOUTH)
C1.4	CIVIL DETAILS
C1.5	EROSION CONTROL PLAN
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C1.7	EROSION CONTROL DETAILS
LANDSCAPE PLAN	
L1	LANDSCAPE PLAN
L2	LANDSCAPE PLAN
BUILDING ELEVATIONS	
A1.0	ELEVATION VIEWS
A2.0	ELEVATIONS VIEWS
BUILDING FLOOR PLANS	
A3.0	MAIN LEVEL (TYPE "B" WITH BASEMENT)
A4.0	UPPER LEVEL (TYPE "B" WITH BASEMENT)
A5.0	BASEMENT LEVEL (TYPE "B")
A6.0	UPPER LEVEL (TYPE "S" NO BASEMENT)
A7.0	MAIN LEVEL (TYPE "S" NO BASEMENT)

FLOODPLAIN STATEMENT

NO PORTION OF THE SUBJECT PROPERTY IS NOT LOCATED WITHIN FEMA DESIGNATED SPECIAL FLOOD HAZARD AREA (SFHA) AS INDICATED ON THE FLOOD INSURANCE RATE MAP (FIRM) FOR EL PASO COUNTY, COLORADO AND INCORPORATED AREAS - MAP NUMBER 08041C0763 F, EFFECTIVE MARCH 17, 1997.

MAP NOTES

- BOUNDARY BEARINGS AND DISTANCES SHOWN ON THIS MAP ARE RELATIVE TO THE SOUTH LINE OF LOT 1A, BRADLEY CROSSROADS FILING NO. 1B, ASSUMED TO BEAR N89°43'38"W.
- THE EXISTING TOPOGRAPHY SHOWN ON THIS PLAN WAS PREPARED AND PROVIDED BY POLARIS SURVEYING INC. ELEVATIONS SHOWN ARE RELATIVE TO THE CITY OF COLORADO SPRINGS CONTROL NETWORK (FMS DATUM)
- ALL EXISTING UNDERGROUND UTILITIES SHOWN ON THIS MAP ARE FROM UTILITY MAIN RECORD MAPS AND UTILITY SERVICE LOCATION MAPS. THE LOCATION OF UTILITIES AS SHOWN ARE APPROXIMATE. ALL UTILITIES MAY NOT BE SHOWN OR MAY NOT HAVE BEEN LOCATED. BELOW GROUND UTILITY LOCATIONS WERE NOT PERFORMED.

DEVELOPMENT NOTES:

- WATER SERVICE PROVIDED BY SECURITY WATER DISTRICT.
- SEWER SERVICE PROVIDED BY SECURITY SANITATION DISTRICT.
- OWNERSHIP AND MAINTENANCE OF THE GENERAL COMMON ELEMENT (GCE), TRACT A SHALL BE VESTED TO THE TOWNHOMES AT BRADLEY CROSSROADS HOME OWNERS ASSOCIATION. THIS INCLUDES THE MAINTENANCE OF THE PRIVATE ROADS, COMMON AREAS, ETC.
- "S" TYPE UNITS ARE SLAB ON GRADE AND ADA ACCESSIBLE. "B" TYPE UNITS INCLUDE PARTIAL BASEMENT UNDER THE MAIN LIVING AREA AND ARE NON-ADA.

ADA NOTE

THE PARTIES RESPONSIBLE FOR THIS PLAN HAVE FAMILIARIZED THEMSELVES WITH ALL CURRENT ACCESSIBILITY CRITERIA AND SPECIFICATIONS AND THE PROPOSED PLAN REFLECTS ALL SITE ELEMENTS REQUIRED BY THE APPLICABLE ADA DESIGN STANDARDS AND GUIDELINES AS PUBLISHED BY THE UNITED STATES DEPARTMENT OF JUSTICE. APPROVAL OF THIS PLAN BY EL PASO COUNTY DOES NOT ASSURE COMPLIANCE WITH THE ADA OR ANY REGULATIONS OR GUIDELINES ENACTED OR PROMULGATED UNDER OR WITH RESPECT TO SUCH LAWS.

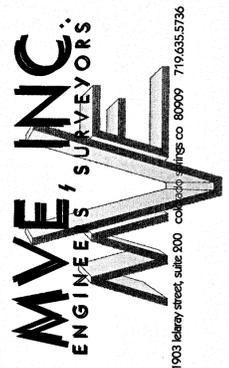
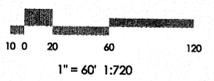
OWNERS STATEMENT

I, THE OWNER/DEVELOPER HAVE READ AND WILL COMPLY WITH ALL OF THE REQUIREMENTS SPECIFIED ON THIS SITE DEVELOPMENT PLAN.

J. ELLIOT HOMES, INC.
12218 CRYSTAL DOWNS ROAD
PEYTON, CO 80831

2/24/19
DATE

BENCHMARK



REVISIONS

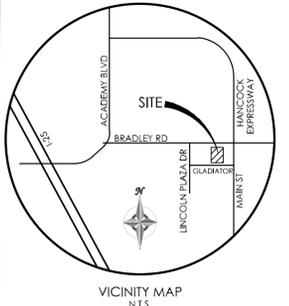
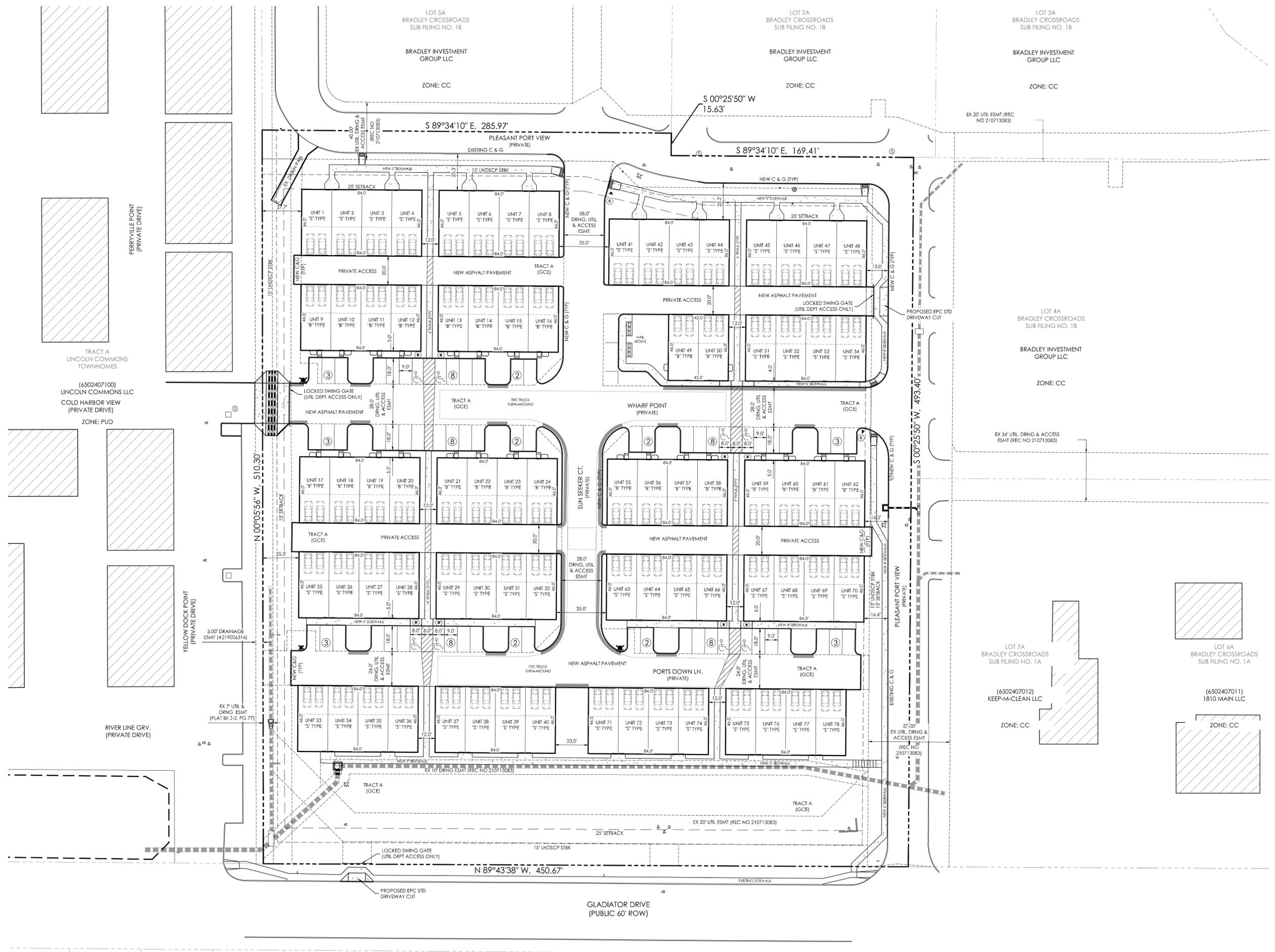
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DRAWN BY _____
CHECKED BY _____
AS-BUILTS BY _____
CHECKED BY _____

THE TOWNHOMES AT
BRADLEY CROSSROADS

SITE DEVELOPMENT
PLAN
COVER SHEET

DP-1 MVE PROJECT 61093
MVE DRAWING DEV-CS

FEBRUARY 11, 2019
SHEET 1 OF 4



MVE, INC.
ENGINEERS / SURVEYORS

1903 Liberty Street, Suite 200 Colorado Springs, CO 80909 719.635.5736

REVISIONS

DESIGNED BY _____
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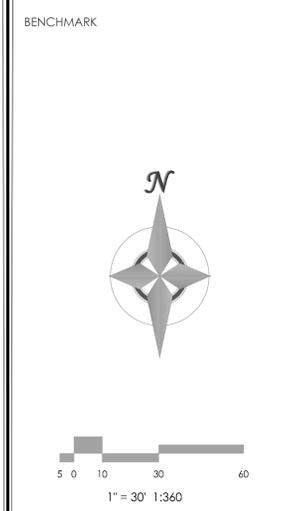
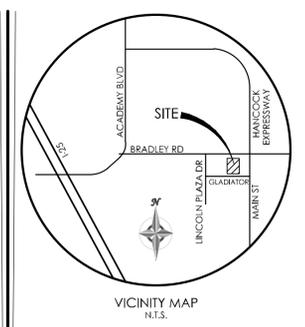
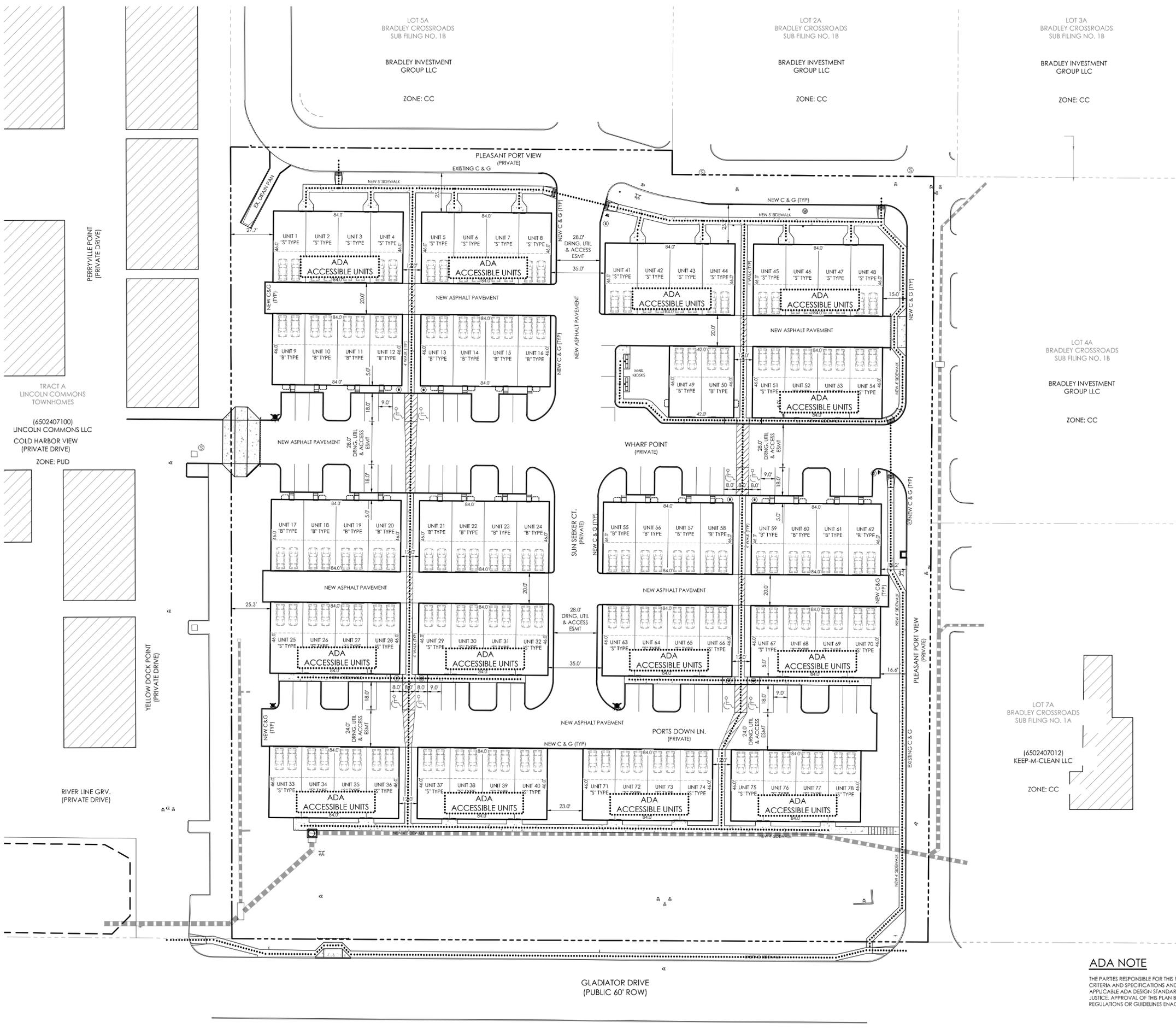
**THE TOWNHOMES AT
 BRADLEY CROSSROADS**

**SITE DEVELOPMENT
 PLAN
 SITE PLAN**

DP-2 MVE PROJECT 61093
 MVE DRAWING DEV-SP

FEBRUARY 11, 2019
SHEET 2 OF 4

EPC PROJ NO. PPR1846



MVE, INC.
ENGINEERS / SURVEYORS

1903 Liberty Street, Suite 200 Colorado Springs, CO 80909 719.635.5736

DESIGNED BY _____
 DRAWN BY _____
 CHECKED BY _____
 AS-BUILT BY _____
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THE TOWNHOMES AT
 BRADLEY CROSSROADS

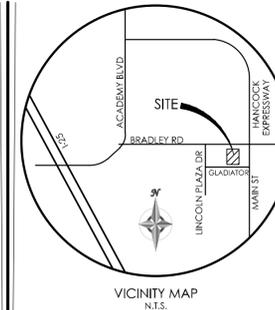
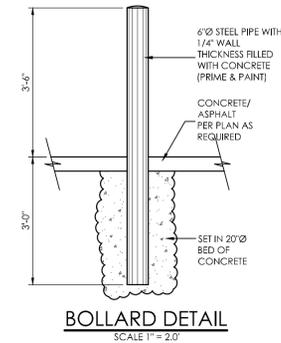
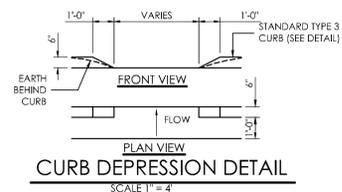
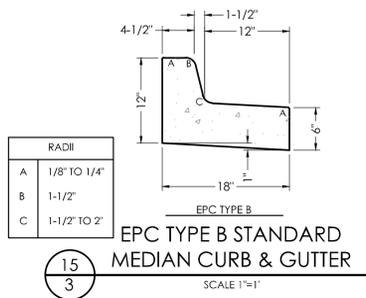
SITE DEVELOPMENT
 PLAN
 ADA ROUTE PLAN

DP-3 MVE PROJECT 61093
 MVE DRAWING DEV-ADA

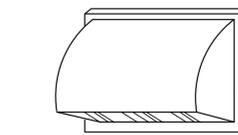
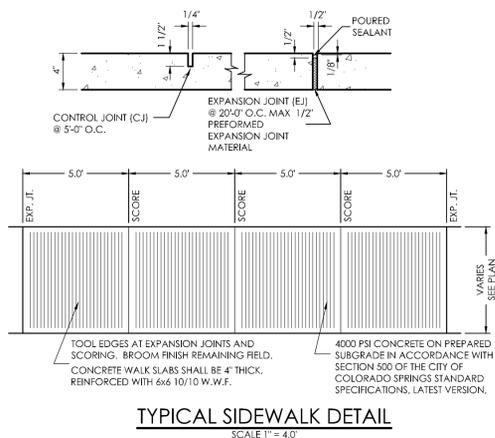
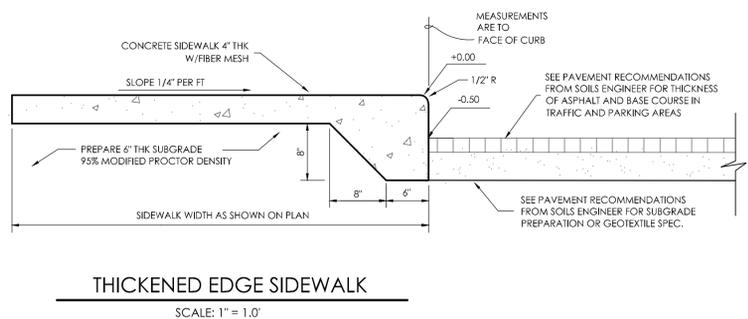
FEBRUARY 11, 2019
 SHEET 3 OF 4

ADA NOTE

THE PARTIES RESPONSIBLE FOR THIS PLAN HAVE FAMILIARIZED THEMSELVES WITH ALL CURRENT ACCESSIBILITY CRITERIA AND SPECIFICATIONS AND THE PROPOSED PLAN REFLECTS ALL SITE ELEMENTS REQUIRED BY THE APPLICABLE ADA DESIGN STANDARDS AND GUIDELINES AS PUBLISHED BY THE UNITED STATES DEPARTMENT OF JUSTICE. APPROVAL OF THIS PLAN BY EL PASO COUNTY DOES NOT ASSURE COMPLIANCE WITH THE ADA OR ANY REGULATIONS OR GUIDELINES ENACTED OR PROMULGATED UNDER OR WITH RESPECT TO SUCH LAWS.



BENCHMARK



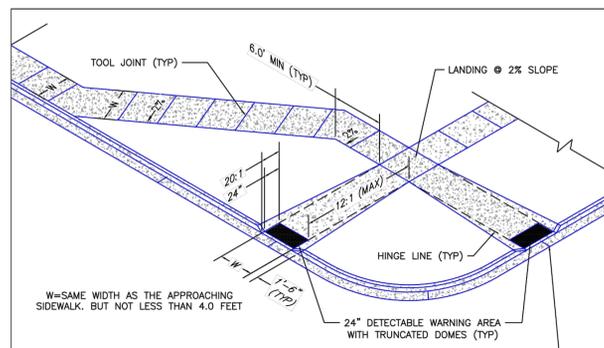
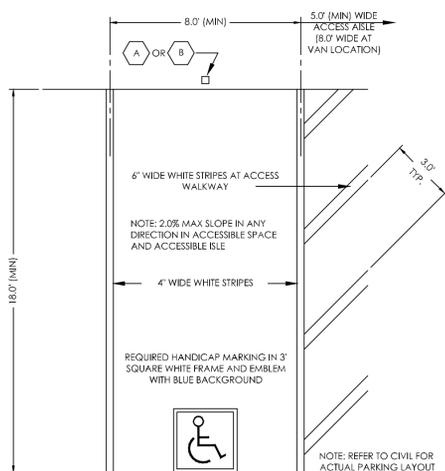
FULL CUT OFF LIGHT FIXTURE:
LITHONIA LIGHTING # TWACS
32 TRT WATT, COMPACT FLUORESCENT

SCALE: NONE



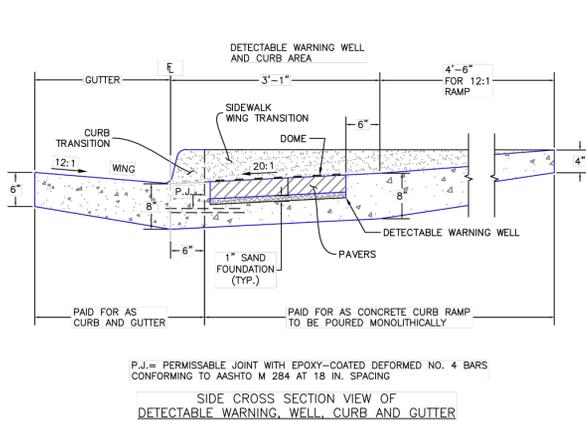
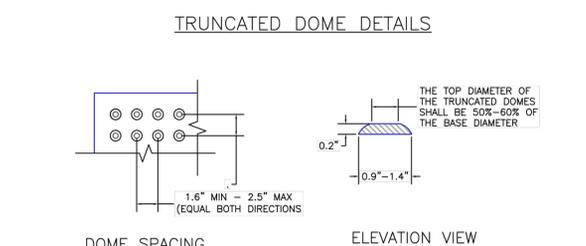
1. TYPOGRAPHY TO BE HELVETICA MEDIUM
2. NOTE: REFER TO SITE PLAN FOR LOCATIONS
3. REMOVE EXISTING SIGNS AND REUSE WHERE APPLICABLE (NOT SHOWN)
4. STOP SIGNS WILL BE INSTALLED BY THE DEVELOPER AT THE LOCATIONS SHOWN ON THE DEVELOPMENT PLAN TO MEET MUTCD STANDARDS AND THE CITY OF COLORADO SPRINGS TRAFFIC ENGINEERING STANDARDS.

SCALE: 1" = 1.0'

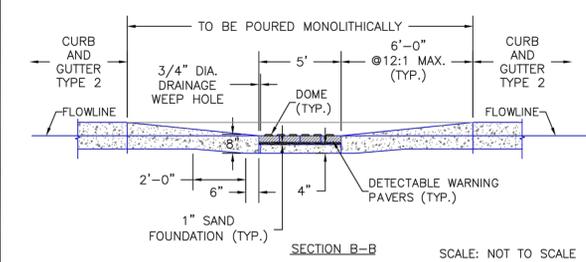
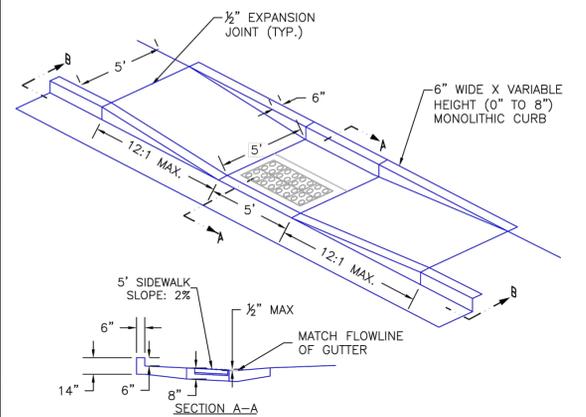


- PEDESTRIAN RAMP NOTES**
1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CURRENT ENGINEERING CRITERIA MANUAL AND ADA REQUIREMENTS.
 2. CONTRACTOR TO NOTIFY ENGINEERING DIVISION INSPECTION STAFF 48 HOURS PRIOR TO CONCRETE PLACEMENT.
 3. PEDESTRIAN RAMP CONSTRUCTION SHALL BE A MINIMUM 4,500 PSI CONCRETE, MINIMUM 4" THICK, NON-COLORED, NON-SCORED, COARSE BROOM FINISH.
 4. RAMP LOCATION AND LENGTH MAY REQUIRE MODIFICATION TO MAINTAIN THE 12:1 MAXIMUM RUNNING RAMP SLOPE AND 20:1 DETECTABLE WARNING AREA DUE TO STREET INTERSECTION GRASSES AND/OR ALIGNMENTS.
 5. DETECTABLE WARNING AREA SHALL START A MINIMUM OF 6" BUT NOT MORE THAN 8" FROM THE FLOWLINE OF THE CURB AT ANY POINT.
 6. DETECTABLE WARNING AREA SHALL BE PREFABRICATED, REDDISH INTEGRALLY COLORED, TRUNCATED-DOME, PAVERS. THERMOPLASTIC TRUNCATED DOMES WILL NOT BE ACCEPTED.
 7. THE DETECTABLE WARNING AREA SHALL BE 24" IN LENGTH AND THE FULL WIDTH OF THE RAMP.
 8. RAMP WIDTH REQUIRED IS SAME AS APPROACHING SIDEWALK; 4' MINIMUM.
 9. ALL RAMPERS WILL BE PERPENDICULAR TO TRAFFIC WITH THE EXCEPTION OF MID-BLOCK OR TERMINAL RAMPERS WHICH MAY BE PARALLEL SUBJECT TO APPROVAL.
 10. AVOID PLACING DRAINAGE STRUCTURES, TRAFFIC SIGNAL/SIGNAGE, UTILITIES/JUNCTION BOXES, OR OTHER OBSTRUCTIONS WITHIN PROPOSED RAMP AREAS.
- GENERAL NOTES**
1. WHERE THE 1'-6" FLARED SIDE(S) OF A PERPENDICULAR CURB RAMP IS (ARE) CONTIGUOUS WITH A PEDESTRIAN OR HARD SURFACE AREA, THE MAXIMUM FLARE SLOPE SHALL NOT EXCEED 10:1.
 2. PEDESTRIAN WALKWAY AND/OR LOCATION OF EXISTING OR FUTURE PEDESTRIAN RAMP ON OPPOSITE CORNERS SHALL BE REVIEWED BEFORE CONSTRUCTING NEW RAMPERS.
 3. AT MARKED PEDESTRIAN CROSSINGS, THE BOTTOM OF THE RAMP'S, EXCLUSIVE OF THE FLARE SIDES, SHALL BE TOTALLY CONTAINED WITHIN THE MARKINGS.

DATE APPROVED: 7/9/09	FILE NAME: SD_2-41
DESIGNED BY: André P. Brackin	REVISION DATE: 12/8/15
CHECKED BY: [Signature]	FILE NAME: SD_2-41
DEPARTMENT OF TRANSPORTATION	



DATE APPROVED: 1/1/08	FILE NAME: SD_2-42
DESIGNED BY: John A. McCarty	REVISION DATE: 11/25/15
CHECKED BY: [Signature]	FILE NAME: SD_2-42
DEPARTMENT OF TRANSPORTATION	



DATE APPROVED: 8/11/11	FILE NAME: SD_2-50
DESIGNED BY: André P. Brackin	REVISION DATE: 12/8/15
CHECKED BY: [Signature]	FILE NAME: SD_2-50
DEPARTMENT OF TRANSPORTATION	

REVISIONS

DESIGNED BY: _____
DRAWN BY: _____
CHECKED BY: _____
AS-BUILTS BY: _____
CHECKED BY: _____

THE TOWNHOMES AT
BRADLEY CROSSROADS

SITE DEVELOPMENT
PLAN
SITE DETAILS

DP-4 MVE PROJECT 61093
MVE DRAWING DEV-SD

FEBRUARY 11, 2019
SHEET 4 OF 4

EPC PROJ NO. PPR1846



1903 Library Street, Suite 200 Colorado Springs, CO 80909 719.635.5736

STANDARD EL PASO COUNTY GRADING & EROSION CONTROL PLAN NOTES

- CONSTRUCTION MAY NOT COMMENCE UNTIL A CONSTRUCTION PERMIT IS OBTAINED FROM PLANNING AND COMMUNITY DEVELOPMENT (PCD) A PRECONSTRUCTION CONFERENCE IS HELD WITH PCD INSPECTIONS.
- STORMWATER DISCHARGES FROM CONSTRUCTION SITES SHALL NOT CAUSE OR THREATEN TO CAUSE POLLUTION, CONTAMINATION, OR DEGRADATION OF STATE WATERS. ALL WORK AND EARTH DISTURBANCE SHALL BE DONE IN A MANNER THAT MINIMIZES POLLUTION OF ANY ON-SITE OR OFF-SITE WATERS, INCLUDING WETLANDS.
- NOTWITHSTANDING ANYTHING DEPICTED IN THESE PLANS IN WORDS OR GRAPHIC REPRESENTATION, ALL DESIGN AND CONSTRUCTION RELATED TO ROADS, STORM DRAINAGE AND EROSION CONTROL SHALL CONFORM TO THE STANDARDS AND REQUIREMENTS OF THE MOST RECENT VERSION OF THE RELEVANT APPLICABLE EL PASO COUNTY STANDARDS, INCLUDING THE LAND DEVELOPMENT CODE, THE ENGINEERING CRITERIA MANUAL, THE DRAINAGE CRITERIA MANUAL, AND THE DRAINAGE CRITERIA MANUAL VOLUME 2. ANY DEVIATIONS FROM REGULATIONS AND STANDARDS MUST BE REQUESTED, AND APPROVED, IN WRITING.
- A SEPARATE STORMWATER MANAGEMENT PLAN (SWMP) FOR THIS PROJECT SHALL BE COMPLETED AND AN EROSION AND STORMWATER QUALITY CONTROL PERMIT (ESQCP) ISSUED PRIOR TO COMMENCING CONSTRUCTION. DURING CONSTRUCTION THE SWMP IS THE RESPONSIBILITY OF THE DESIGNATED STORMWATER MANAGER, SHALL BE LOCATED ON SITE AT ALL TIMES AND SHALL BE KEPT UP TO DATE WITH WORK PROGRESS AND CHANGES IN THE FIELD.
- ONCE THE ESQCP HAS BEEN ISSUED, THE CONTRACTOR MAY INSTALL THE INITIAL STAGE EROSION AND SEDIMENT CONTROL BMPs AS INDICATED ON THE EDC. A PRECONSTRUCTION MEETING BETWEEN THE CONTRACTOR, ENGINEER, AND EL PASO COUNTY WILL BE HELD PRIOR TO ANY CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE APPLICANT TO COORDINATE THE MEETING TIME AND PLACE WITH COUNTY PCD INSPECTIONS STAFF.
- SOIL EROSION CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES, OR ANY DISTURBED LAND AREA SHALL BE COMPLETED WITHIN 21 CALENDAR DAYS AFTER FINAL GRADING, OR FINAL EARTH DISTURBANCE, HAS BEEN COMPLETED. DISTURBED AREAS AND STOCKPILES WHICH ARE NOT AT FINAL GRADE BUT WILL REMAIN DORMANT FOR LONGER THAN 30 DAYS SHALL ALSO BE MULCHED WITHIN 21 DAYS AFTER INTERIM GRADING. AN AREA THAT IS GOING TO REMAIN IN AN INTERIM STATE FOR MORE THAN 60 DAYS SHALL ALSO BE SEEDDED. ALL TEMPORARY SOIL EROSION CONTROL MEASURES AND BMPs SHALL BE MAINTAINED UNTIL PERMANENT SOIL EROSION CONTROL MEASURES ARE IMPLEMENTED AND ESTABLISHED.
- TEMPORARY SOIL EROSION CONTROL FACILITIES SHALL BE REMOVED AND EARTH DISTURBANCE AREAS GRADED AND STABILIZED WITH PERMANENT SOIL EROSION CONTROL MEASURES PURSUANT TO STANDARDS AND SPECIFICATION PRESCRIBED IN THE DCM VOLUME I AND THE ENGINEERING CRITERIA MANUAL (ECM) APPENDIX I.
- ALL PERSONS ENGAGED IN EARTH DISTURBANCE SHALL IMPLEMENT AND MAINTAIN ACCEPTABLE SOIL EROSION AND SEDIMENT CONTROL MEASURES INCLUDING BMPs IN CONFORMANCE WITH THE EROSION CONTROL TECHNICAL STANDARDS OF THE DRAINAGE CRITERIA MANUAL (DCM) VOLUME I AND IN ACCORDANCE WITH THE STORMWATER MANAGEMENT PLAN (SWMP).
- ALL TEMPORARY EROSION CONTROL FACILITIES INCLUDING BMPs AND ALL PERMANENT FACILITIES INTENDED TO CONTROL EROSION OF ANY EARTH DISTURBANCE OPERATIONS, SHALL BE INSTALLED AS DEFINED IN THE APPROVED PLANS, THE SWMP AND THE DCM VOLUME I AND MAINTAINED THROUGHOUT THE DURATION OF THE EARTH DISTURBANCE OPERATION.
- ANY EARTH DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER SO AS TO EFFECTIVELY REDUCE ACCELERATED SOIL EROSION AND RESULTING SEDIMENTATION. ALL DISTURBANCES SHALL BE DESIGNED, CONSTRUCTED, AND COMPLETED SO THAT THE EXPOSED AREA OF ANY DISTURBED LAND SHALL BE LIMITED TO THE SHORTEST PRACTICAL PERIOD OF TIME.
- ANY TEMPORARY OR PERMANENT FACILITY DESIGNED AND CONSTRUCTED FOR THE CONVEYANCE OF STORMWATER AROUND, THROUGH, OR FROM THE EARTH DISTURBANCE AREA SHALL BE DESIGNED TO LIMIT THE DISCHARGE TO A NON-EROSIVE VELOCITY.
- CONCRETE WASH WATER SHALL BE CONTAINED AND DEPOSED OF IN ACCORDANCE WITH THE SWMP. NO WASH WATER SHALL BE DISCHARGED TO OR ALLOWED TO RUNOFF TO STATE WATERS, INCLUDING ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR FACILITIES.
- EROSION CONTROL BLANKETING SHALL BE USED ON SLOPES STEEPER THAN 3:1.
- BUILDING, CONSTRUCTION, EXCAVATION, OR OTHER WASTE MATERIALS SHALL NOT BE TEMPORARILY PLACED OR STORED IN THE STREET, ALLEY, OR OTHER PUBLIC WAY, UNLESS IN ACCORDANCE WITH AN APPROVED TRAFFIC CONTROL PLAN. BMPs MAY BE REQUIRED BY EL PASO COUNTY ENGINEERING IF DEEMED NECESSARY, BASED ON SPECIFIC CONDITIONS AND CIRCUMSTANCES.
- VEHICLE TRACKING OF SOILS AND CONSTRUCTION DEBRIS OFF-SITE SHALL BE MINIMIZED. MATERIALS TRACKED OFF-SITE SHALL BE CLEANED UP AND PROPERLY DISPOSED OF IMMEDIATELY.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL WASTES FROM THE CONSTRUCTION SITE FOR DISPOSAL IN ACCORDANCE WITH LOCAL AND STATE REGULATORY REQUIREMENTS. NO CONSTRUCTION DEBRIS, TREE SLASH, BUILDING MATERIAL WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURIED, DUMPED, OR DISCHARGED AT THE SITE.
- THE OWNER, SITE DEVELOPER, CONTRACTOR, AND/OR THEIR AUTHORIZED AGENTS SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL CONSTRUCTION DEBRIS, DIRT, TRASH, ROCK, SEDIMENT, AND SAND THAT MAY ACCUMULATE IN THE STORM SEWER OR OTHER DRAINAGE CONVEYANCE SYSTEM AND STORMWATER APPURTENANCES AS A RESULT OF SITE DEVELOPMENT.
- THE QUANTITY OF MATERIALS STORED ON THE PROJECT SITE SHALL BE LIMITED, AS MUCH AS PRACTICAL, TO THAT QUANTITY REQUIRED TO PERFORM THE WORK IN AN ORDERLY SEQUENCE. ALL MATERIALS STORED ON-SITE SHALL BE STORED IN A NEAT, ORDERLY MANNER, IN THEIR ORIGINAL CONTAINERS, WITH ORIGINAL MANUFACTURER'S LABELS.
- NO CHEMICALS ARE TO BE USED BY THE CONTRACTOR, WHICH HAVE THE POTENTIAL TO BE RELEASED IN STORMWATER UNLESS PERMISSION FOR THE USE OF A SPECIFIC CHEMICAL IS GRANTED IN WRITING BY THE ECM ADMINISTRATOR. IN GRANTING THE USE OF SUCH CHEMICALS, SPECIAL CONDITIONS AND MONITORING MAY BE REQUIRED.
- BULK STORAGE STRUCTURES FOR PETROLEUM PRODUCTS AND OTHER CHEMICALS SHALL HAVE ADEQUATE PROTECTION SO AS TO CONTAIN ALL SPILLS AND PREVENT ANY SPILLED MATERIAL FROM ENTERING STATE WATERS, INCLUDING ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR FACILITIES.
- NO PERSON SHALL CAUSE THE IMPEDIMENT OF STORMWATER FLOW IN THE FLOW LINE OF THE CURB AND GUTTER OR IN THE DITCHLINE.
- INDIVIDUALS SHALL COMPLY WITH THE "COLORADO WATER QUALITY CONTROL ACT" (TITLE 25, ARTICLE 8, C.R.S.), AND THE "CLEAN WATER ACT" (33 USC 1344), IN ADDITION TO THE REQUIREMENTS INCLUDED IN THE DCM VOLUME I AND THE ECM APPENDIX I. ALL APPROPRIATE PERMITS MUST BE OBTAINED BY THE CONTRACTOR PRIOR TO CONSTRUCTION (NPDES, FLOODPLAIN, 404, FUGITIVE DUST, ETC.). IN THE EVENT OF CONFLICTS BETWEEN THESE REQUIREMENTS AND LAWS, RULES, OR REGULATIONS OF OTHER FEDERAL, STATE, OR COUNTY AGENCIES, THE MORE RESTRICTIVE LAWS, RULES, OR REGULATIONS SHALL APPLY.
- ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE AT APPROVED CONSTRUCTION ACCESS POINTS.
- PRIOR TO ACTUAL CONSTRUCTION THE PERMITTEE SHALL VERIFY THE LOCATION OF EXISTING UTILITIES.
- A WATER SOURCE SHALL BE AVAILABLE ON SITE DURING EARTHWORK OPERATIONS AND UTILIZED AS REQUIRED TO MINIMIZE DUST FROM EARTHWORK EQUIPMENT AND WIND.
- THE SOILS REPORT FOR THIS SITE HAS BEEN PREPARED BY ENTECH ENGINEERING, INC. AND SHALL BE CONSIDERED A PART OF THESE PLANS.
- AT LEAST TEN DAYS PRIOR TO THE ANTICIPATED START OF CONSTRUCTION, FOR PROJECTS THAT WILL DISTURB 1 ACRE OR MORE, THE OWNER OR OPERATOR OF CONSTRUCTION ACTIVITY SHALL SUBMIT A PERMIT APPLICATION FOR STORMWATER DISCHARGE TO THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT, WATER QUALITY DIVISION. THE APPLICATION CONTAINS CERTIFICATION OF COMPLETION OF A STORMWATER MANAGEMENT PLAN (SWMP), OF WHICH THIS GRADING AND EROSION CONTROL PLAN MAY BE A PART. FOR INFORMATION OR APPLICATION MATERIALS CONTACT:

COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT
WATER QUALITY CONTROL DIVISION, WQCD - PERMITS
4000 CHERRY CREEK DRIVE, SOUTH
DENVER, CO 80244-1320
ATTN: PERMITS UNIT

GRADING NOTES:

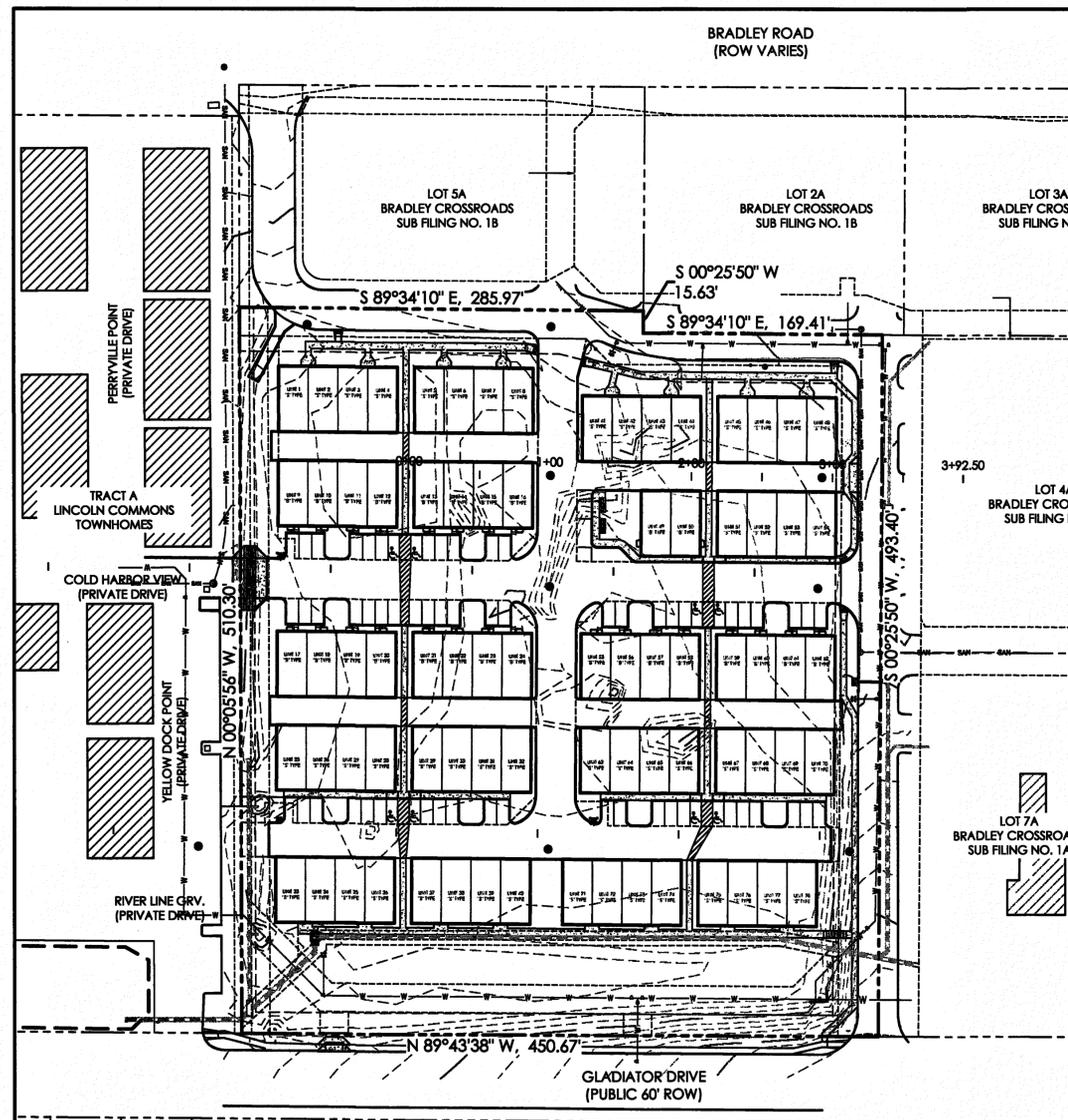
- UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN DRAWN FROM AVAILABLE RECORDS AND/OR SURFACE EVIDENCE. THE LOCATION OF ALL UTILITIES MAY NOT BE SHOWN OR MAY NOT HAVE BEEN LOCATED. BELOW GROUND LOCATIONS HAVE NOT BEEN PERFORMED. THEREFORE, THE RELATIONSHIP BETWEEN PROPOSED WORK AND EXISTING FACILITIES, STRUCTURES AND UTILITIES MUST BE CONSIDERED APPROXIMATE. ALL UTILITIES SHALL BE LOCATED PRIOR TO ANY EARTH WORK OR DIGGING (1-800-922-1987). THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MAY BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UTILITIES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL SUBSURFACE UTILITY OWNERS PRIOR TO BEGINNING WORK TO DETERMINE LOCATION OF UTILITY FACILITIES.
- EXISTING CONDITIONS SHALL BE VERIFIED BY THE GENERAL CONTRACTOR. DISCREPANCIES ARE TO BE REPORTED TO THE ENGINEER PRIOR TO CONSTRUCTION.
- M.V.E., INC. OR THE ENGINEER ASSUMES NO RESPONSIBILITY OR LIABILITY FOR USE OF THIS GRADING PLAN FOR ANY OTHER PURPOSE THAN OVER LOT GRADING OPERATIONS.
- ALL WEEDS, TRASH, DEBRIS, RUBBLE, BROKEN ASPHALT, ORGANIC MATERIAL (EXCLUDING TOPSOIL) AND REFUSE, OR ANY OTHER MATERIAL WHICH WOULD NOT BE DELETERIOUS AS FILL MATERIAL OR INCAPABLE OF SUPPORTING THE BUILDING, VEHICULAR AND/OR OVERBURDEN LOADS TO BE IMPOSED SHALL BE CLEARED, GRUBBED OR EXCAVATED AS THE CASE MAY DICTATE PRIOR TO GRADING AND SHALL BE REMOVED FROM SITE AND DISPOSED OF LEGALLY.
- CONTOUR INTERVAL FOR EXISTING AND PROPOSED CONTOUR LINES IS 1.0'.
- PROPOSED CONTOURS SHOWN ARE FINISH GRADES AND READ TO TOP OF PAVEMENT AND FINISH SOIL GRADE.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO PROTECT GRADED AREAS FROM, AND AS NECESSARY RESTORE TO GRADE, ANY RUTS, WASHES OR OTHER CHANGES FROM THE DESIGN ELEVATIONS SHOWN HEREON, UNTIL GRADING WORK IS ACCEPTED BY THE OWNER OR OWNER'S REPRESENTATIVE.
- THE CONTRACTOR SHALL ENDEAVOR NOT TO DISTURB ANY OFFSITE AREAS. THE CONTRACTOR SHALL RESTORE TO THE ORIGINAL CONDITION, ADJACENT (OFF-SITE) PROPERTY DISTURBED BY HIS OPERATIONS.
- THE GENERAL CONTRACTOR SHALL STRIP TOPSOIL FROM CONSTRUCTION AREAS AND STOCKPILE TOPSOIL AT AREA SHOWN ON THIS PLAN. PLACE TOPSOIL WITH APPROPRIATE EROSION CONTROL AND IN A MANNER SO AS NOT TO CONFLICT WITH OTHER TRADES AND CONSTRUCTION PROCESS.
- ALL GRADING SHALL BE DONE TO INSURE POSITIVE DRAINAGE AWAY FROM FOUNDATIONS AND STRUCTURES.
- FINISHED GRADE OF ALL PREVIOUS EARTH SURFACES THAT CONTACT FOUNDATION WALLS SHALL BE A MINIMUM OF 4" BELOW ANY UNTREATED WOOD MATERIAL OR IN ACCORDANCE WITH APPLICABLE CODES AND THE RECOMMENDATIONS OF THE OWNER'S GEOTECHNICAL ENGINEERING REPORT OR DESIGN.
- PREVIOUS EARTH SURFACES SHALL SLOPE AWAY FROM ALL FOUNDATION WALLS AT A MINIMUM RATE OF 12" IN 100 FEET (10%) FOR THE FIRST 10 FEET ADJACENT TO THE FOUNDATION OR IN ACCORDANCE WITH APPLICABLE CODES AND THE RECOMMENDATIONS OF THE OWNER'S GEOTECHNICAL ENGINEERING REPORT OR DESIGN.
- CONCRETE OR OTHER IMPERVIOUS SURFACES THAT CONTACT FOUNDATION WALLS SHALL SLOPE AWAY FROM ALL FOUNDATION WALLS AT A MINIMUM RATE OF 1/4" PER FOOT (2.00%) OR IN ACCORDANCE WITH APPLICABLE CODES AND THE RECOMMENDATIONS OF THE OWNER'S GEOTECHNICAL ENGINEERING REPORT OR DESIGN.
- ANY FILL MATERIAL REQUIRED TO BRING GRADES UP TO PROPOSED ELEVATIONS SHALL BE PROVIDED BY THE CONTRACTOR.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DISTRIBUTING TOPSOIL THROUGHOUT THE LAWN AND PLANTING AREAS ACCORDING TO APPROVED LANDSCAPE PLANS, BY OTHERS.

GRADING AND EROSION CONTROL PLAN

for

THE TOWNHOMES AT BRADLEY CROSSROADS

EL PASO COUNTY, COLORADO



SITE MAP
1" = 60'

- THE NATURE OF WORK PROPOSED BY THIS PLAN IS GRADING AND THE EXTENT OF SAID PROPOSED GRADING IS SHOWN BY THE EXISTING AND PROPOSED CONTOURS HEREON.
- CONTRACTOR SHALL USE MECHANICAL METHODS TO GO FROM THE EXISTING TO PROPOSED CONTOURS IN ACCORDANCE WITH THIS GRADING PLAN. QUALITY CONTROL OF SOILS AND GRADING OPERATION WILL BE AS DIRECTED BY OWNERS GEOTECHNICAL ENGINEER.
- CONTRACTOR IN THE PERFORMANCE OF HIS GRADING WORK SHALL, AT ALL TIMES, WHETHER OR NOT SPECIFICALLY DIRECTED BY OWNER OR ENGINEER, STRICTLY OBSERVE SAFETY PROVISIONS OF ALL FEDERAL, STATE AND MUNICIPAL LAWS AND BUILDING AND CONSTRUCTION CODES RELATING TO PUBLIC SAFETY. CONTRACTOR SHALL CONTINUOUSLY CONDUCT HIS GRADING OPERATIONS WORK IN A MANNER THAT SUCH WORK WILL NOT BECOME A HAZARD TO LIFE AND LIMB, ENDANGER PROPERTY OR ADVERSELY AFFECT THE SAFETY, USE OR STABILITY OF THE PUBLIC WAY, DRAINAGE CHANNEL, OR OTHER PROPERTY SHOWN ON THIS GRADING PLAN. GRADING OPERATIONS WORK COMPLETED IN ACCORDANCE WITH THIS GRADING PLAN WILL NOT BECOME A HAZARD TO LIFE AND LIMB, ENDANGER PROPERTY OR ADVERSELY AFFECT THE SAFETY, USE OR STABILITY OF THE PUBLIC WAY, DRAINAGE CHANNEL, OR OTHER PROPERTY SHOWN ON THIS GRADING PLAN.
- WHENEVER OWNER, ENGINEER OR CITY SAFETY DIRECTOR OR HIS DESIGNATED REPRESENTATIVE BECOMES AWARE OF CONTRACTOR'S FAILURE TO COMPLY WITH APPLICABLE SAFETY REGULATIONS, THE OWNER, ENGINEER OR CITY SAFETY DIRECTOR OR HIS DESIGNATED REPRESENTATIVE WILL INFORM THE CONTRACTOR WHO SHALL TAKE IMMEDIATE STEPS TO REMEDY THE NONCOMPLIANCE.
- CONTRACTOR SHALL PROVIDE APPROPRIATE EROSION CONTROL MEASURES DURING EARTHWORK OPERATIONS TO CONTROL EROSION AND SEDIMENT TRANSFER TO ADJACENT PROPERTIES. EROSION CONTROL MEASURES ARE NOT LIMITED TO THOSE NOTED ON THE EROSION CONTROL PLAN.
 - ALL DISTURBED AREAS SHALL BE REVEGETATED OR OTHERWISE LANDSCAPED AFTER CONSTRUCTION IN ACCORDANCE WITH THE REVEGETATION GUIDELINES CONTAINED IN THE STANDARD EROSION CONTROL NOTES ON THIS PLAN AND IN ACCORDANCE WITH THE APPROVED LANDSCAPE PLAN FOR THIS PROJECT. THE APPROVED LANDSCAPE PLAN DEPICTS SOIL AND SEEDING AREAS WITH SPECIFIED TYPES AND AMOUNTS.
 - NETTING WILL BE PLACED ON CONSTRUCTED SLOPES GREATER THAN 3:1. SLOPE VALUES ARE ARE SHOWN ON THE PLAN. NETTING SHALL BE GREENFLEX AMERICA WS072 OR EQUAL AGRICULTURAL STRAW BLANKET WITH PHOTODEGRADABLE NETTING ON BOTH SIDES. NETTING SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS.
 - STRAW BALES WILL BE PLACED AT TOP OF NEWLY CONSTRUCTED SLOPES OF 3:1 OR GREATER AT SELECTED LOCATIONS AS REQUIRED.
 - PLACE SILT FENCE AS SHOWN ON THE EROSION CONTROL PLAN AND AS MAY BE REQUIRED TO PREVENT SEDIMENT MOVEMENT TO ADJACENT PROPERTY. STRAW BALES OR EROSION CONTROL LOGS MAY BE SUBSTITUTED WITH APPROVAL OF THE ENGINEER.
- ALL WORK IN THE PUBLIC RIGHT-OF-WAY SHALL BE PERFORMED ACCORDING TO EL PASO COUNTY STANDARD SPECIFICATIONS, LATEST REVISION.
- OVER LOT GRADING TO BE COMPLETE PRIOR TO THE INSTALLATION OF ALL UTILITIES.

SHEET INDEX

PLAN SET SHEET NO.	SHEET TITLE	MVE DRAWING NO.
C 1.1	COVER SHEET	61093-GEC-CS
C 1.2	GRADING PLAN (NORTH)	61093-GEC-GP
C 1.3	GRADING PLAN (SOUTH)	61093-GEC-GP2
C 1.4	CIVIL DETAILS	61093-GEC-CD
C 1.5	EROSION CONTROL PLAN	61093-GEC-EC
C 1.6	EROSION CONTROL DETAILS	61093-GEC-ED
C 1.7	EROSION CONTROL DETAILS	61093-GEC-ED2

SOILS & GEOLOGIC HAZARD STUDY NOTE:

A STUDY ENTITLED "SOIL GEOLOGY AND GEOLOGIC HAZARD STUDY, LINCOLN PLAZA DRIVE AND BRADLEY ROAD, SOUTHEAST CORNER, EL PASO COUNTY, COLORADO" WAS PREPARED BY ENTECH ENGINEERING INC. WHICH IS DATED APRIL 12, 2005. THE IDENTIFICATION OF GEOLOGIC HAZARDS INCLUDED ARTIFICIAL FILL, HYDROCOMPACTION, AND EXPANSIVE SOILS. MITIGATION OF THESE HAZARDS ARE TO BE CONDUCTED IN ACCORDANCE WITH THE RECOMMENDATIONS OF SAID STUDY. ARTIFICIAL FILL ENCOUNTERED DURING EARTHWORK OPERATIONS ON THE SITE SHALL BE REMOVED AND RECOMPACTED IN ACCORDANCE WITH THE STUDY RECOMMENDATIONS. GRADING ADJACENT TO STRUCTURES SHALL BE ACCORDING TO THE GRADING NOTES ON THIS PLAN AND THE RECOMMENDATIONS OF THE SAID STUDY TO MITIGATE THE POTENTIAL FOR HYDROCOMPACTION AND LOOSE SOILS. ENGINEERED FOUNDATION DESIGNS SHALL BE REQUIRED IN ORDER TO MITIGATE THE POTENTIAL OF EXPANSIVE SOILS ON THE SITE.

MAP NOTES

- BOUNDARY BEARINGS AND DISTANCES SHOWN ON THIS MAP ARE RELATIVE TO THE SOUTH LINE OF LOT 1A, BRADLEY CROSSROADS SUBDIVISION FILING NO. 1B, ASSUMED TO BEAR N89°43'38"W.
- THE EXISTING TOPOGRAPHY SHOWN ON THIS PLAN WAS PREPARED BY MVE, INC. USING DATA PROVIDED BY POLARIS SURVEYING INC. ELEVATIONS SHOWN ARE RELATIVE TO THE CITY OF COLORADO SPRINGS CONTROL NETWORK (FMS DATUM).

FLOODPLAIN STATEMENT

NO PORTION OF THE SUBJECT PROPERTY IS LOCATED WITHIN FEMA DESIGNATED SPECIAL FLOOD HAZARD AREA (SFHA) AS INDICATED ON THE FLOOD INSURANCE RATE MAP (FIRM) FOR EL PASO COUNTY, COLORADO AND INCORPORATED AREAS - MAP NUMBER 08041C073G3, EFFECTIVE DECEMBER 7, 2018.

TIMING	APRIL 2019 - NOVEMBER 2019
ANTICIPATED STARTING AND COMPLETION TIME PERIOD OF SITE GRADING:	NOVEMBER 2019
EXPECTED DATE ON WHICH THE FINAL STABILIZATION WILL BE COMPLETED:	
AREAS	5.28 ACRES
TOTAL AREA OF THE SITE TO BE CLEARED, EXCAVATED OR GRADED:	
RECEIVING WATERS	FOUNTAIN CREEK
NAME OF RECEIVING WATERS:	

LEGEND

EXISTING	PROPOSED
--- 5985 ---	--- 5985 ---
INDEX CONTOUR	INDEX CONTOUR
--- 84 ---	--- 84 ---
INTERMEDIATE CONTOUR	INTERMEDIATE CONTOUR
[Pattern]	[Pattern]
CONCRETE AREA	CONCRETE AREA
[Pattern]	[Pattern]
ASPHALT AREA	ASPHALT AREA
[Pattern]	[Pattern]
CURB AND GUTTER	CURB AND GUTTER
[Pattern]	[Pattern]
BUILDING/ BUILDING OVERHANG	BUILDING/ BUILDING OVERHANG
[Pattern]	[Pattern]
DECK	DECK
[Pattern]	[Pattern]
RETAINING WALL - SOLID/ ROCK	RETAINING WALL - SOLID ROCK
[Pattern]	[Pattern]
SIGN	SIGN
[Symbol]	[Symbol]
BOLLARD	BOLLARD
[Symbol]	[Symbol]
WOOD FENCE	TOP OF WALL/GRADE AT BOTTOM OF WALL
[Symbol]	[Symbol]
CHAIN LINK FENCE	TOP OF CURB/FLOWLINE
[Symbol]	[Symbol]
BARBED WIRE FENCE	SPOT ELEVATION
[Symbol]	[Symbol]
TREE (EVERGREEN/DECIDUOUS)	FF = 5986.00
[Symbol]	[Symbol]
SHRUB	FL = FLOWLINE
[Symbol]	[Symbol]
ROCK	TSW = TOP OF SIDEWALK FINISHED FLOOR ELEVATION
[Symbol]	[Symbol]

OWNERS STATEMENT

I, THE OWNER/DEVELOPER HAVE READ AND WILL COMPLY WITH ALL OF THE REQUIREMENTS SPECIFIED IN THESE DETAILED PLANS AND SPECIFICATIONS.

JORDAN E. GUIKANE, PRESIDENT
J. ELIOT HOMES, INC. DATE 3/18/19

ENGINEER'S STATEMENT

THESE DETAILED PLANS AND SPECIFICATIONS WERE PREPARED UNDER MY DIRECTION AND SUPERVISION. SAID DETAILED PLANS AND SPECIFICATIONS HAVE BEEN PREPARED ACCORDING TO THE CRITERIA ESTABLISHED BY THE COUNTY FOR DETAILED PLANS AND SPECIFICATIONS, AND SAID DETAILED PLANS AND SPECIFICATIONS ARE IN CONFORMITY WITH THE MASTER PLAN OF THE DRAINAGE BASIN. SAID DETAILED DRAINAGE PLANS AND SPECIFICATIONS MEET THE PURPOSES FOR WHICH THE PARTICULAR DRAINAGE FACILITY IS DESIGNED. I ACCEPT RESPONSIBILITY FOR ANY LIABILITY CAUSED BY ANY NEGLIGENT ACTS, ERRORS OR OMISSIONS ON MY PART IN PREPARATION OF THE DETAILED DRAINAGE PLANS AND SPECIFICATIONS.

DAVID R. GORMAN, P.E.
FOR AND ON BEHALF OF M.V.E., INC. DATE 3/18/19

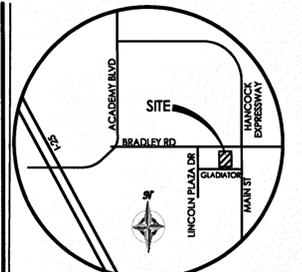
EL PASO COUNTY

COUNTY PLAN REVIEW IS PROVIDED ONLY FOR GENERAL CONFORMANCE WITH COUNTY DESIGN CRITERIA. THE COUNTY IS NOT RESPONSIBLE FOR THE ACCURACY AND ADEQUACY OF THE DESIGN, DIMENSIONS, AND/OR ELEVATIONS WHICH SHALL BE CONFIRMED AT THE JOB SITE. THE COUNTY THROUGH THE APPROVAL OF THIS DOCUMENT ASSUMES NO RESPONSIBILITY FOR COMPLETENESS AND/OR ACCURACY OF THIS DOCUMENT.

FILED IN ACCORDANCE WITH THE REQUIREMENTS OF THE EL PASO COUNTY LAND DEVELOPMENT CODE, DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2, AND ENGINEERING CRITERIA MANUAL AS AMENDED.

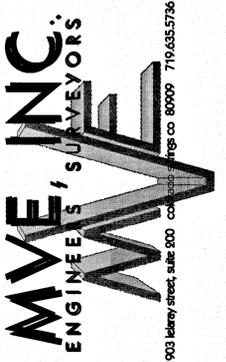
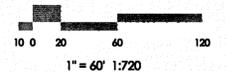
IN ACCORDANCE WITH ECM SECTION 1.12, THESE CONSTRUCTION DOCUMENTS WILL BE VALID FOR CONSTRUCTION FOR A PERIOD OF 2 YEARS FROM THE DATE SIGNED BY THE EL PASO COUNTY ENGINEER. IF CONSTRUCTION HAS NOT STARTED WITHIN THOSE 2 YEARS, THE PLANS WILL NEED TO BE RESUBMITTED FOR APPROVAL, INCLUDING PAYMENT OF REVIEW FEES AT THE PLANNING AND COMMUNITY DEVELOPMENT DIRECTORS DISCRETION.

JENNIFER IRVINE, P.E.
COUNTY ENGINEER / ECM ADMINISTRATOR DATE
EPC PROJ NO. PPR1846



VICINITY MAP
N.T.S.

BENCHMARK



REVISIONS

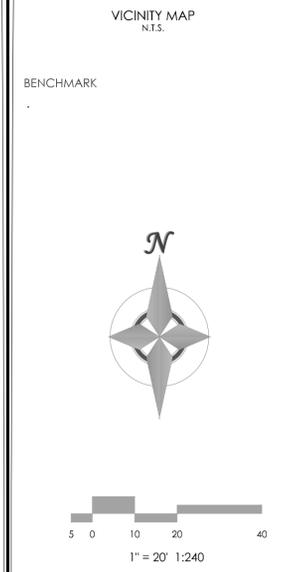
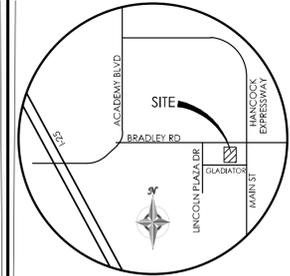
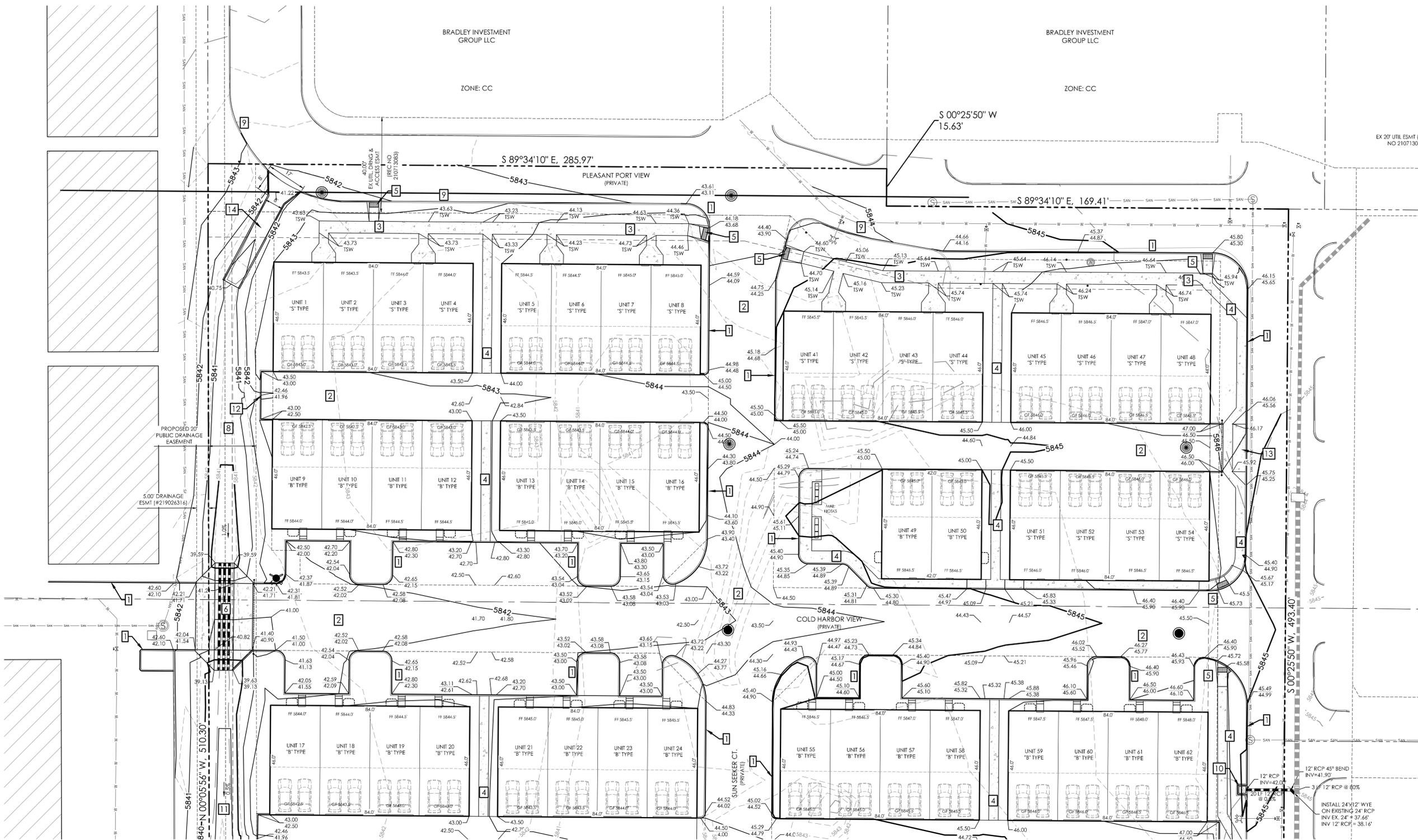
DESIGNED BY
DRAWN BY
CHECKED BY
AS-BUILTS BY
CHECKED BY

THE TOWNHOMES AT
BRADLEY CROSSROADS

GRADING & EROSION
CONTROL PLAN
COVER SHEET

C1.1 MVE PROJECT 61093
MVE DRAWING -GEC-CS

FEBRUARY 11, 2019
SHEET 1 OF 7



MVE, INC.
ENGINEERS / SURVEYORS

1903 Library Street, Suite 300 Colorado Springs, CO 80909 719.635.5736

REVISIONS

- NOTE LEGEND:**
- 1 INSTALL COUNTY STD TYPE B CURB & GUTTER
 - 2 INSTALL ASPHALT PAVING w/ PARKING LOT MARKINGS
 - 3 INSTALL CONCRETE SIDEWALK (5' WIDE)
 - 4 INSTALL CONCRETE SIDEWALK (4' WIDE)
 - 5 INSTALL PEDESTRIAN RAMP (SEE DETAILS)
 - 6 INSTALL CONCRETE CHANNEL "TEXAS CROSSING" (SEE DETAIL)
 - 7 INSTALL THICKENED EDGE SIDE WALK (SEE DETAIL)
 - 8 INSTALL 4' WIDE ROCK SWALE (SEE DETAIL "A")
 - 9 EXISTING CURB & GUTTER
 - 10 INSTALL CDOT TYPE C INLET, H=2.5' W/ CLOSED MESH GRATE
 - 11 INSTALL 5' WIDE ROCK SWALE (SEE DETAIL "B")
 - 12 INSTALL 2' WIDE CURB DEPRESSION
 - 13 INSTALL COUNTY STANDARD DRIVEWAY, DETAIL SD_2-24.
 - 14 REMOVE EXISTING CONCRETE DRAIN PAN AND REPLACE W/ NEW 8' WIDE x 40' LONG CONCRETE PAN (SEE DETAIL)



DESIGNED BY _____
DRAWN BY _____
CHECKED BY _____
AS-BUILTS BY _____
CHECKED BY _____

THE TOWNHOMES AT
BRADLEY CROSSROADS

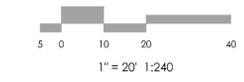
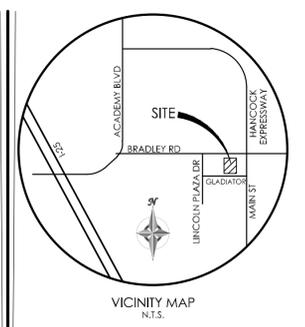
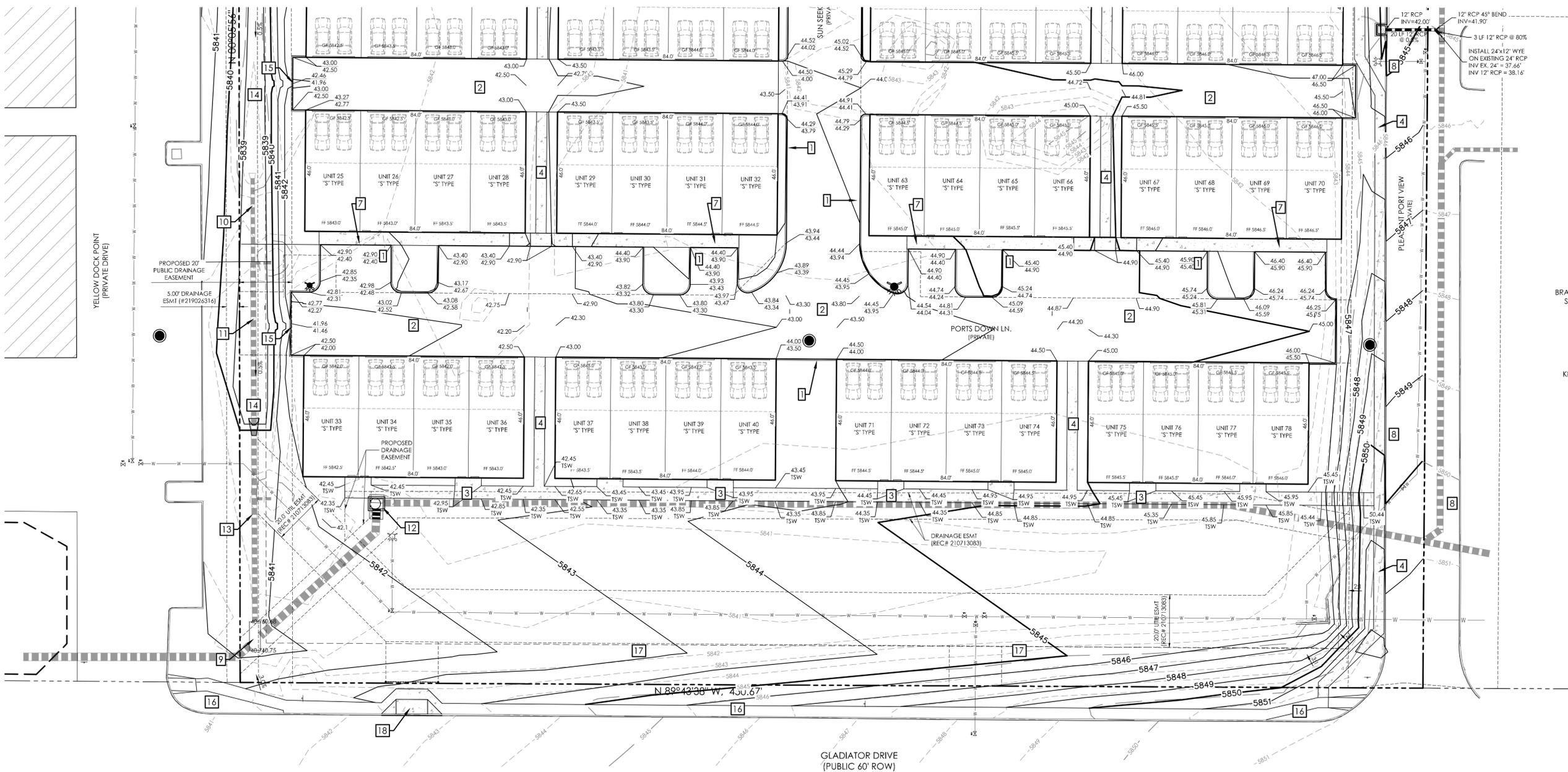
GRADING & EROSION
CONTROL PLAN
GRADING PLAN (NORTH)

C1.2 MVE PROJECT 61093
MVE DRAWING -GEC-GP1

FEBRUARY 11, 2019
SHEET 2 OF 7

EPC PROJ NO. PPR1846

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- NOTE LEGEND:**
- 1 INSTALL COUNTY STD TYPE B CURB & GUTTER
 - 2 INSTALL ASPHALT PAVING w/ PARKING LOT MARKINGS
 - 3 INSTALL CONCRETE SIDEWALK (5' WIDE)
 - 4 INSTALL CONCRETE SIDEWALK (4' WIDE)
 - 5 INSTALL EPC STD PED RAMP D-8
 - 6 INSTALL CONCRETE CHANNEL "TEXAS CROSSING" (SEE DETAIL)
 - 7 INSTALL THICKENED EDGE SIDE WALK (SEE DETAIL)
 - 8 EXISTING CURB & GUTTER
 - 9 EXISTING INLET
 - 10 REMOVE EXISTING 18" RCP
 - 11 REMOVE EXISTING 24" RCP
 - 12 REMOVE EXISTING INLET. INSTALL EPC TYPE 1 MANHOLE AND EXTEND EXISTING RCP AS REQUIRED. INSTALL MANHOLE RISERS AS NECESSARY TO MATCH FINISHED GRADE. CONTRACTOR TO VERIFY EXISTING PIPE INVERTS.
 - 13 INSTALL 24" RCP FLARED END SECTION ON EXISTING 24" RCP LINE
 - 14 INSTALL 5' WIDE ROCK SWALE (SEE DETAIL "B")
 - 15 INSTALL 2' WIDE CURB DEPRESSION
 - 16 EXISTING SIDEWALK (PROTECT IN PLACE)
 - 17 CONTRACTOR TO ENSURE THAT GRADING IS ACCOMPLISHED PER THIS PLAN AND SHALL VERIFY THAT THE LOW POINT IS NOT WITHIN THE EXTENTS OF THE UTILITY EASEMENT.
 - 18 INSTALL COUNTY STANDARD DRIVEWAY, DETAIL SD_2-24.

REVISIONS

DESIGNED BY _____
 CHECKED BY _____
 AS-BUILTS BY _____
 CHECKED BY _____

THE TOWNHOMES AT
 BRADLEY CROSSROADS

GRADING & EROSION
 CONTROL PLAN
 GRADING PLAN (SOUTH)

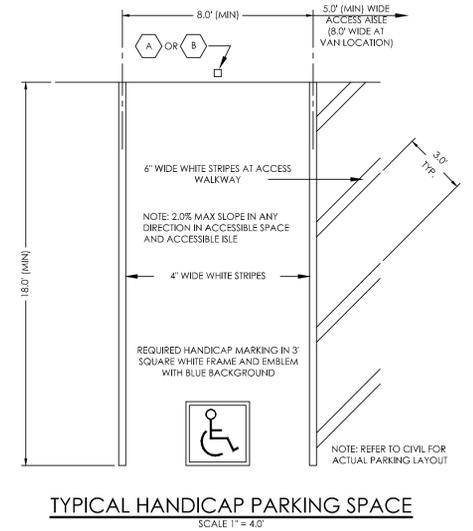
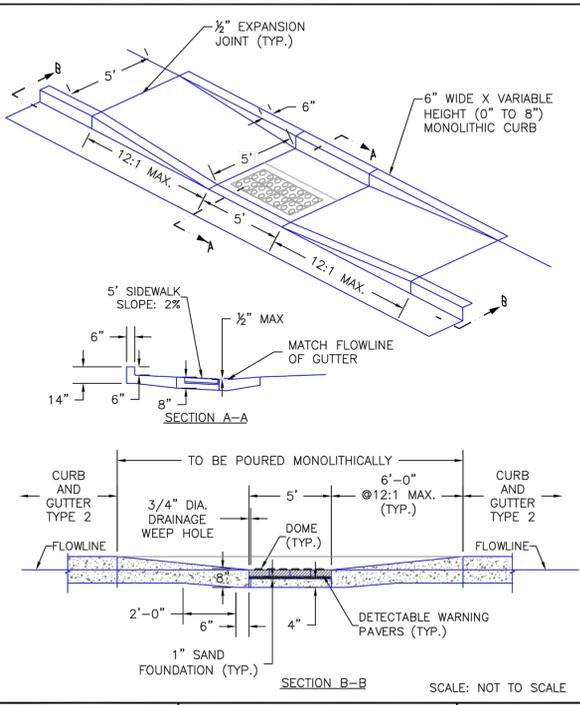
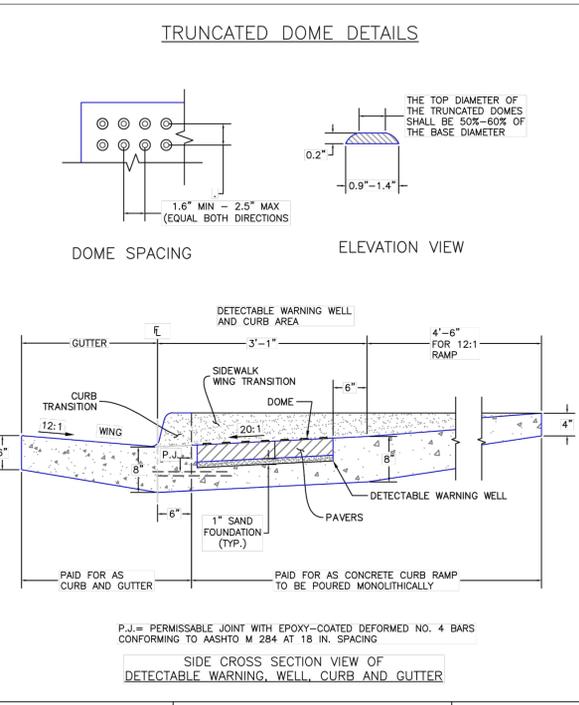
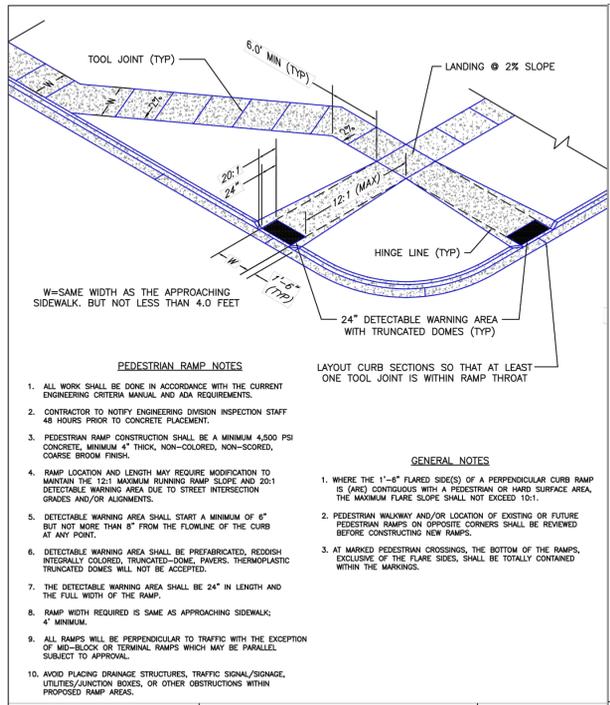
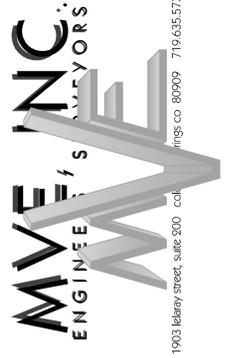
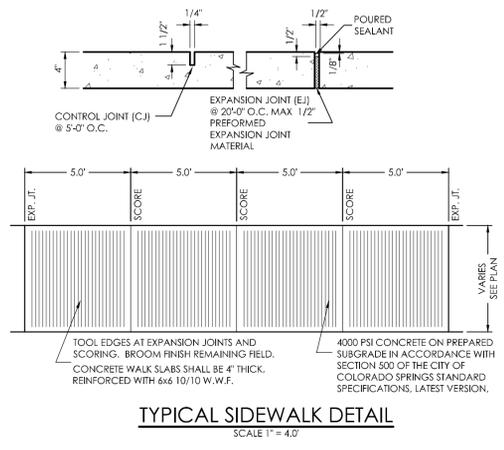
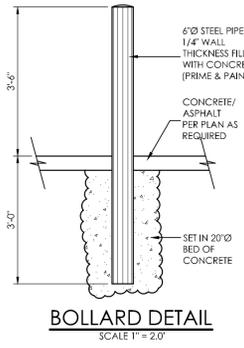
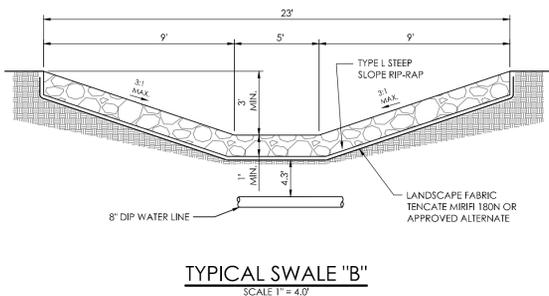
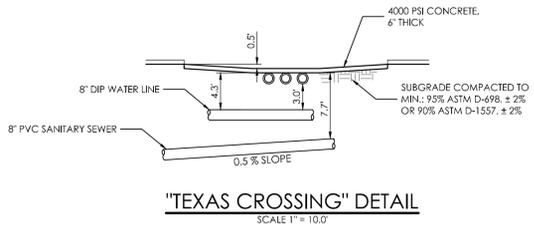
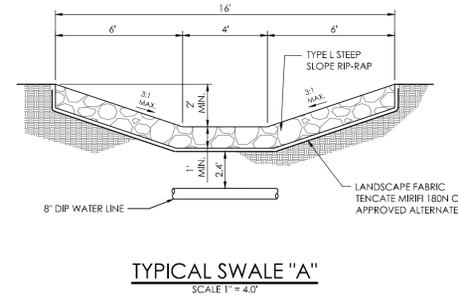
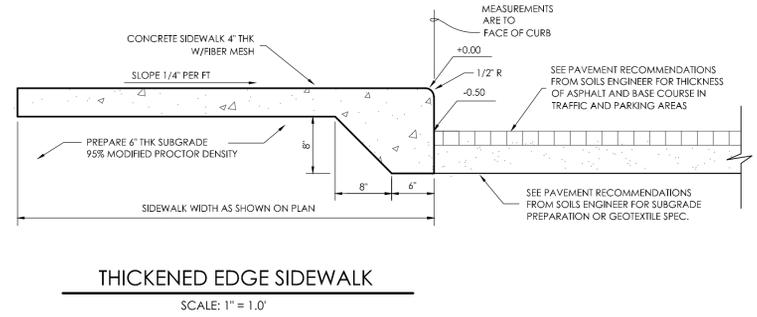
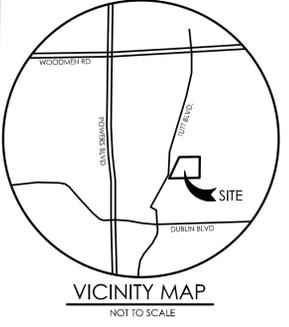
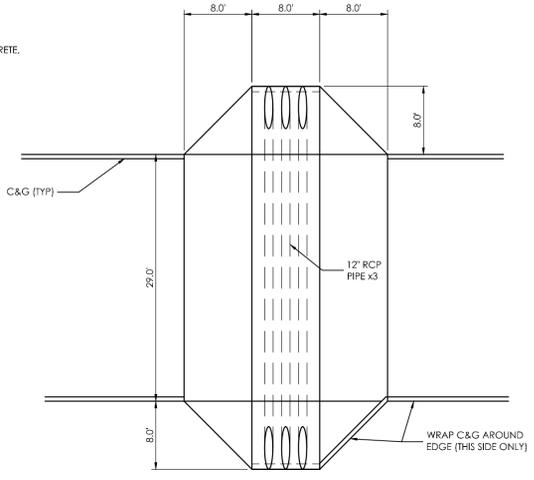
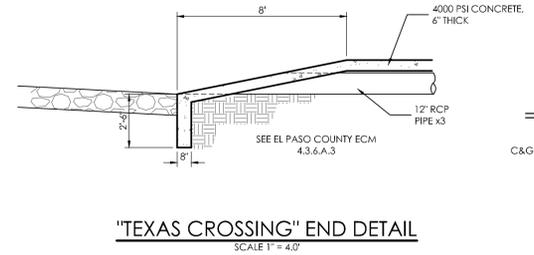
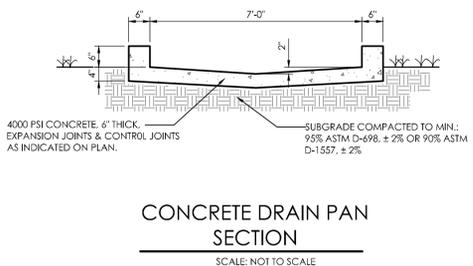
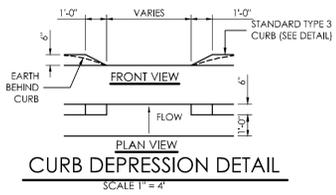
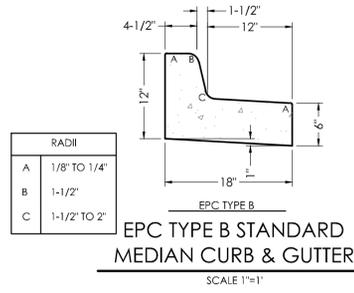
C1.2 MVE PROJECT 61093
 MVE DRAWING -GEC-GP1

FEBRUARY 11, 2019
 SHEET 3 OF 7



EPC PROJ NO. PPR1846

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THE TOWNHOMES AT BRADLEY CROSSROADS

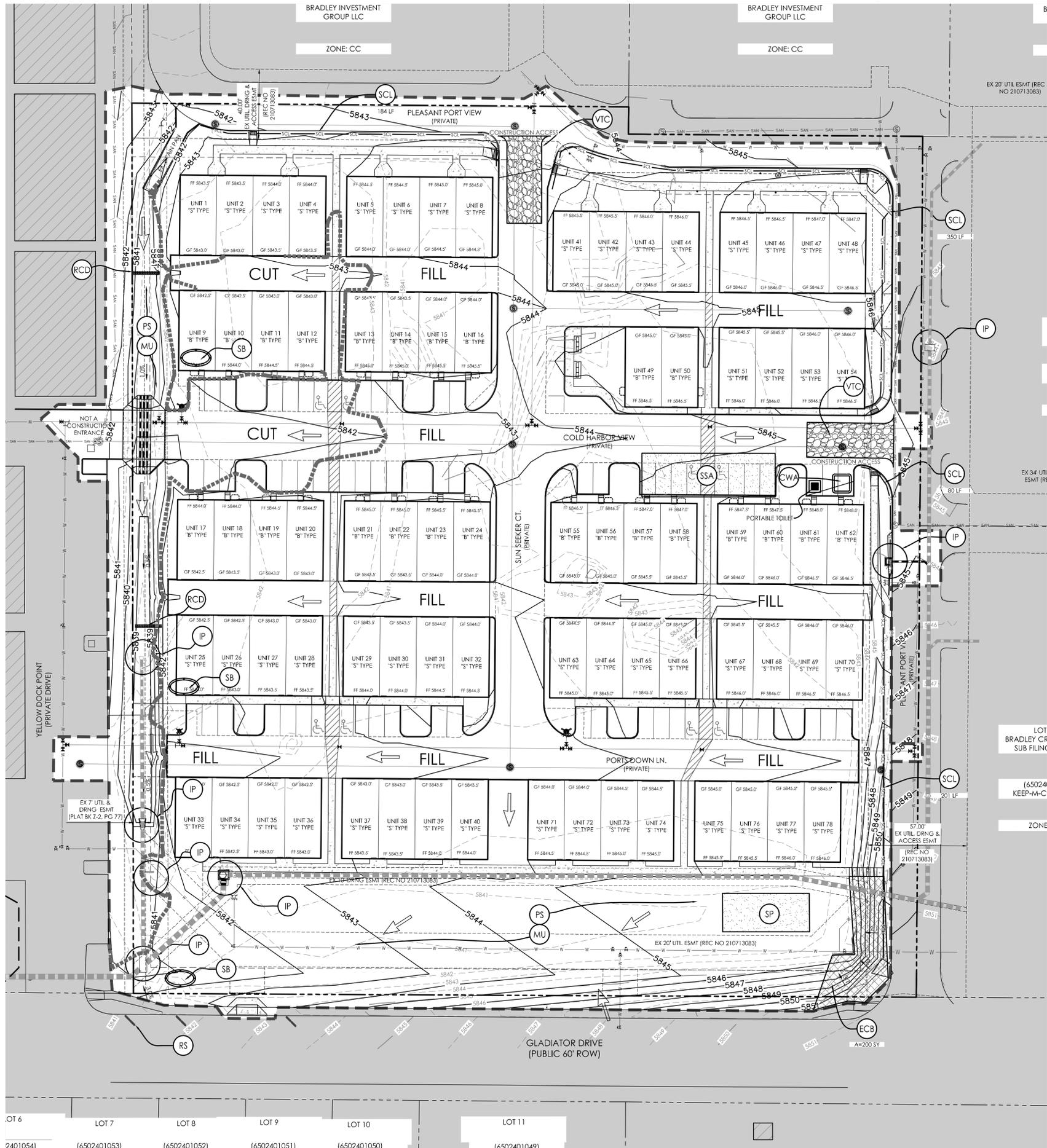
GRADING & EROSION CONTROL PLAN CIVIL DETAILS

C1.4 MVE PROJECT 61093
MVE DRAWING -GEC-CD

FEBRUARY 11, 2019
SHEET 4 OF 7

DATE APPROVED: 7/9/09 André P. Brackin DEPARTMENT OF TRANSPORTATION	DATE APPROVED: 1/1/08 John A. McCarty DEPARTMENT OF TRANSPORTATION	DATE APPROVED: 8/11/11 André P. Brackin DEPARTMENT OF TRANSPORTATION
Project: Pedestrian Intersection Ramp Standard Drawing REVISION DATE: 12/8/15 FILE NAME: SD_2-41	Project: Truncated Dome Details Standard Drawing REVISION DATE: 11/25/15 FILE NAME: SD_2-42	Project: Parallel Pedestrian Ramp Detail Standard Drawing REVISION DATE: 12/8/15 FILE NAME: SD_2-50

EPC PROJ NO. PPR1846



BMP LEGEND

MAP SYMBOL	KEY	DESCRIPTION
	CWA	CONCRETE WASHOUT AREA
	SB	TEMPORARY SEDIMENT BASIN
	SF	SILT FENCE
	SCL	SEDIMENT CONTROL LOG
	RCD	ROCK CHECK DAM
	ST	**SEDIMENT TRAP
	SBB	STRAW BALE BARRIER
	RS	ROCK SOCK
	ECB	EROSION CONTROL BLANKET
	VTC	VEHICLE TRACKING CONTROL
	SW	STREET SWEEPING
	IP	INLET PROTECTION
	OP	PERMANENT OUTLET PROTECTION (SEE CONSTRUCTION PLANS)
	SSA	STABILIZED STAGING AREA
	SP	STOCKPILE PROTECTION
	MU	MULCHING
	SR	SURFACE ROUGHENING
	PS	PERMANENT SEEDING
		LIMITS OF DISTURBANCE
		LIMITS OF CONSTRUCTION SITE BOUNDARIES
		LIMITS OF CUT/FILL/NO GRADE CHANGE
	9	LIMITS OF SOIL TYPE
		FLOW DIRECTION ARROW

SYMBOLS SHOWN IN LEGEND SHALL BE USED BY SWMP ADMINISTRATOR TO ANNOTATE ANY CHANGES AND/OR ADDITIONS TO THIS PLAN.

HYDROLOGIC SOIL GROUP	
MAP UNIT NUMBER	DESCRIPTION
8	BLAKELAND LOAMY SAND

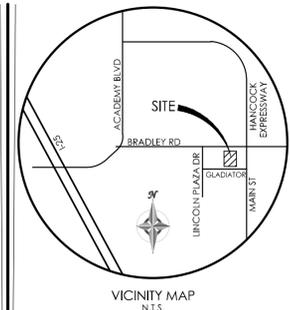
EROSION CONTROL DATA

TIMING	
ANTICIPATED START & COMPLETION TIME PERIOD OF SITE GRADING	NOVEMBER, 2018 TO NOVEMBER, 2019
EXPECTED DATE ON WHICH FINAL STABILIZATION WILL BE COMPLETED	SEPTEMBER, 2019 TO JUNE, 2020

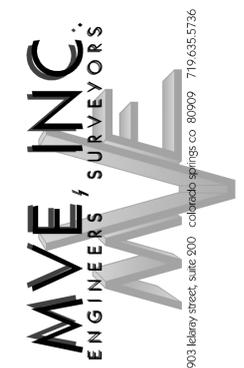
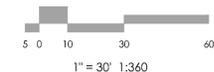
AREAS	
TOTAL AREA OF THE SITE TO BE CLEARED, EXCAVATED OR GRADED	5.28 ACRES

RECEIVING WATERS	
NAME OF RECEIVING WATERS	LITTLE JOHNSON

SOIL DATA	
PRIMARY SOIL DESCRIPTION	BLAKELAND LOAMY SAND
PERMEABILITY	RAPID
SURFACE RUNOFF	LOW
HAZARD OF EROSION	MODERATE
HYDROLOGIC SOIL GROUP	A
EXISTING PERCENT IMPERVIOUS	0%
DEVELOPED PERCENT IMPERVIOUS	85.0%



BENCHMARK



REVISIONS

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AS-BUILTS BY
CHECKED BY

THE TOWNHOMES AT
BRADLEY CROSSROADS

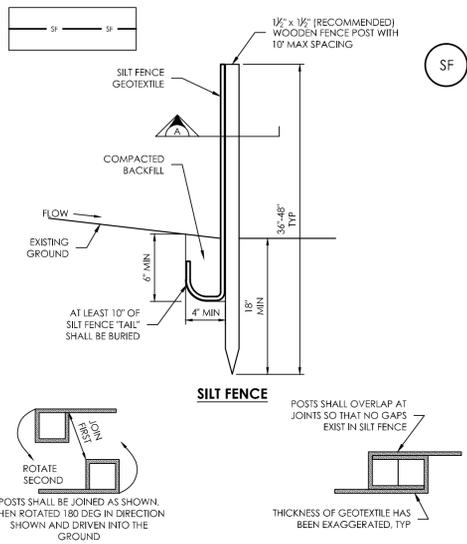
GRADING & EROSION
CONTROL PLAN
EROSION CONTROL PLAN

C1.5 MVE PROJECT 61093
MVE DRAWING GEC-EC

FEBRUARY 11, 2019
SHEET 5 OF 7

EPC PROJ NO. PPR1846

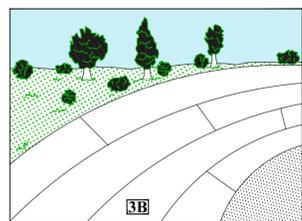
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SF-1. SILT FENCE

- SILT FENCE INSTALLATION NOTES:**
- SILT FENCE MUST BE PLACED AWAY FROM THE TOE OF THE SLOPE TO ALLOW FOR WATER PONDING. SILT FENCE AT THE TOE OF A SLOPE SHOULD BE INSTALLED IN A FLAT LOCATION AT LEAST SEVERAL FEET (2.5 FT) FROM THE TOE OF THE SLOPE TO ALLOW ROOM FOR PONDING AND DEPOSITION.
 - A UNIFORM 6" X 4" ANCHOR TRENCH SHALL BE EXCAVATED USING TRENCHER OR SILT FENCE INSTALLATION DEVICE. NO ROAD GRADERS, BACKHOES, OR SIMILAR EQUIPMENT SHALL BE USED.
 - COMPACT ANCHOR TRENCH BY HAND WITH A "JUMPING JACK" OR BY WHEEL ROLLING. COMPACTATION SHALL BE SUCH THAT SILT FENCE RESISTS BEING PULLED OUT OF ANCHOR TRENCH BY HAND.
 - SILT FENCE SHALL BE PULLED TIGHT AS IT IS ANCHORED TO THE STAKES. THERE SHOULD BE NO NOTICEABLE SAG BETWEEN STAKES AFTER IT HAS BEEN ANCHORED TO THE STAKES.
 - SILT FENCE FABRIC SHALL BE ANCHORED TO THE STAKES USING 1" HEAVY DUTY STAPLES OR NAILS WITH 1" HEADS. STAPLES AND NAILS SHOULD BE PLACED 3" ALONG THE FABRIC DOWN THE STAKE.
 - AT THE END OF A RUN OF SILT FENCE ALONG A CONTOUR, THE SILT FENCE SHOULD BE TURNED PERPENDICULAR TO THE CONTOUR TO CREATE A "J-HOOK". THE "J-HOOK" EXTENDING PERPENDICULAR TO THE CONTOUR SHOULD BE OF SUFFICIENT LENGTH TO KEEP RUNOFF FROM FLOWING AROUND THE END OF THE SILT FENCE (TYPICALLY 10' - 20').
 - SILT FENCE SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.

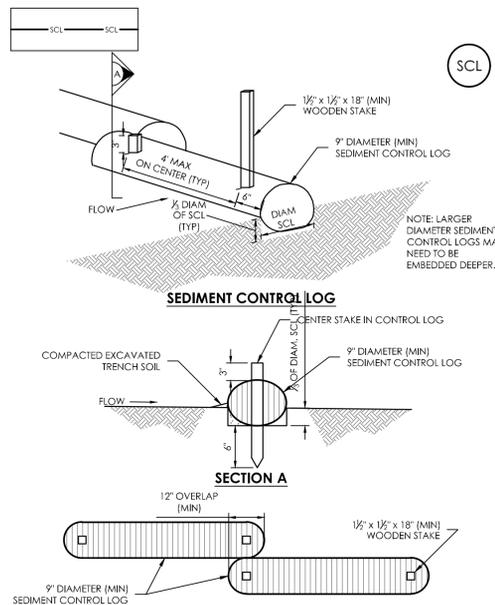
- SILT FENCE MAINTENANCE NOTES:**
- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
 - FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
 - WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
 - SEDIMENT ACCUMULATED UPSTREAM OF THE SILT FENCE SHALL BE REMOVED AS NEEDED TO MAINTAIN THE FUNCTIONALITY OF THE BMP. TYPICALLY WHEN DEPTH OF ACCUMULATED SEDIMENTS IS APPROXIMATELY 6".
 - REPAIR OR REPLACE SILT FENCE WHEN THERE ARE SIGNS OF WEAR, SUCH AS SAGGING, TEARING, OR COLLAPSE.
 - SILT FENCE IS TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND APPROVED BY THE LOCAL JURISDICTION, OR IS REPLACED BY AN EQUIVALENT PERIMETER SEDIMENT CONTROL BMP.
 - WHEN SILT FENCE IS REMOVED, ALL DISTURBED AREAS SHALL BE COVERED WITH TOPSOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED AS APPROVED BY LOCAL JURISDICTION.



EROSION CONTROL BLANKET

DRAWING NOT TO SCALE

- PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (RECPs), INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.
- BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE RECPs IN A 6" (15.2CM) DEEP X 6" (15.2CM) WIDE TRENCH WITH APPROXIMATELY 12" (30.3CM) OF RECPs EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE RECPs WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30.3CM) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO THE COMPACTED SOIL AND FOLD THE REMAINING 12" (30.3CM) PORTION OF RECPs BACK OVER THE SEED AND COMPACTED SOIL. SECURE RECPs OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30.3CM) APART ACROSS THE WIDTH OF THE RECPs.
- ROLL THE RECPs (A) DOWN OR (B) HORIZONTALLY ACROSS THE SLOPE. RECPs WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL RECPs MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE.
- THE EDGES OF PARALLEL RECPs MUST BE STAPLED WITH APPROXIMATELY 2" - 5" (5.1-12.7CM) OVERLAP DEPENDING ON THE RECPs TYPE.
- CONSECUTIVE RECPs SPICED DOWN THE SLOPE MUST BE END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" (7.6CM) OVERLAP. STAPLE THROUGH OVERLAPPED AREA APPROXIMATELY 12" (30.3CM) APART ACROSS ENTIRE RECPs WIDTH.

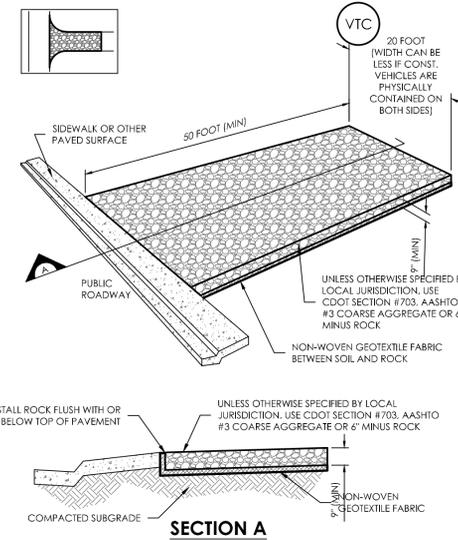


SCL-1. SEDIMENT CONTROL LOG

- SEDIMENT CONTROL LOG INSTALLATION NOTES:**
- SEE PLAN VIEW FOR LOCATION AND LENGTH OF SEDIMENT CONTROL LOGS.
 - SEDIMENT CONTROL LOGS THAT ACT AS A PERIMETER CONTROL SHALL BE INSTALLED PRIOR TO ANY UPGRADIENT LAND-DISTURBING ACTIVITIES.
 - SEDIMENT CONTROL LOGS SHALL CONSIST OF STRAW, COMPOST, EXCELISOR OR COCONUT FIBER, AND SHALL BE FREE OF ANY NOXIOUS WEED SEEDS OR DEFECTS INCLUDING RIPS, HOLES AND OBVIOUS WEAR.
 - SEDIMENT CONTROL LOGS MAY BE USED AS SMALL CHECK DAMS IN DITCHES AND SWALES. HOWEVER, THEY SHOULD NOT BE USED IN PERENNIAL STREAMS OR HIGH VELOCITY DRAINAGE WAYS.
 - IT IS RECOMMENDED THAT SEDIMENT CONTROL LOGS BE TRENCHED INTO THE GROUND TO A DEPTH OF APPROXIMATELY 1/3 OF THE DIAMETER OF THE LOG. IF TRENCHING TO THIS DEPTH IS NOT FEASIBLE AND/OR DESIRABLE (SHORT TERM INSTALLATION WITH DESIRE NOT TO DAMAGE LANDSCAPE) A LESSER TRENCHING DEPTH MAY BE ACCEPTABLE WITH MORE ROBUST STAKING.
 - THE UP-HILL SIDE OF THE SEDIMENT CONTROL LOG SHALL BE BACKFILLED WITH SOIL THAT IS FREE OF ROCKS AND DEBRIS. THE SOIL SHALL BE TIGHTLY COMPACTED INTO THE SHAPE OF A RIGHT TRIANGLE USING A SHOVEL OR WEIGHTED LAWN ROLLER.
 - FOLLOW MANUFACTURERS' GUIDANCE FOR STAKING. IF MANUFACTURERS' INSTRUCTIONS DO NOT SPECIFY SPACING, STAKES SHALL BE PLACED ON 4' CENTERS AND EMBEDDED A MINIMUM OF 6" INTO THE GROUND. 3" OF THE STAKE SHALL PROTRUDE FROM THE TOP OF THE LOG. STAKES THAT ARE BROKEN PRIOR TO INSTALLATION SHALL BE REPLACED.

SCL-4. SEDIMENT CONTROL LOGS TO CONTROL SLOPE LENGTH

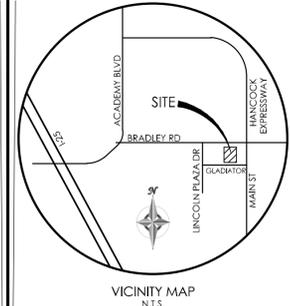
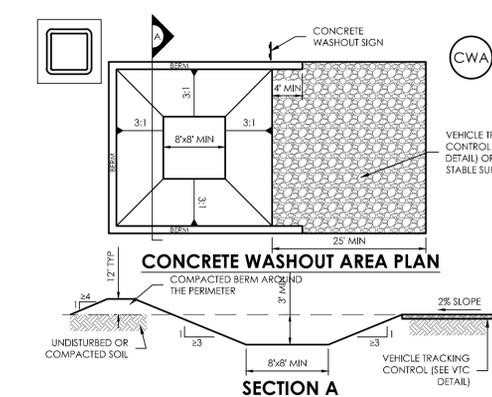
- SEDIMENT CONTROL LOG MAINTENANCE NOTES:**
- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
 - FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
 - WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
 - SEDIMENT ACCUMULATED UPSTREAM OF SEDIMENT CONTROL LOG SHALL BE REMOVED AS NEEDED TO MAINTAIN FUNCTIONALITY OF THE BMP. TYPICALLY WHEN DEPTH OF ACCUMULATED SEDIMENTS IS APPROXIMATELY 1/2 OF THE HEIGHT OF THE SEDIMENT CONTROL LOG.
 - SEDIMENT CONTROL LOG SHALL BE REMOVED AT THE END OF CONSTRUCTION. IF DISTURBED AREAS EXIST AFTER REMOVAL, THEY SHALL BE COVERED WITH TOP SOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE LOCAL JURISDICTION.



CWA-1. CONCRETE WASHOUT AREA

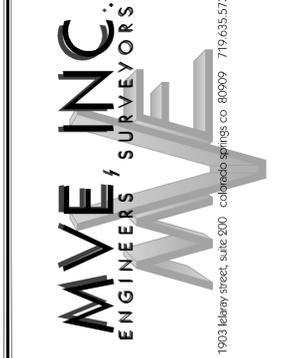
- CWA INSTALLATION NOTES:**
- SEE PLAN VIEW FOR:
 - CWA INSTALLATION LOCATION.
 - DO NOT LOCATE AN UNLINED CWA WITHIN 400' OF ANY NATURAL DRAINAGE PATHWAY OR WATERBODY. DO NOT LOCATE WITHIN 1000' OF ANY WELLS OR DRINKING WATER SOURCES. IF SITE CONSTRAINTS MAKE THIS INFEASIBLE, OR IF HIGHLY PERMEABLE SOILS EXIST ON SITE, THE CWA MUST BE INSTALLED WITH AN IMPERMEABLE LINER (1/16 MIL MIN. THICKNESS) OR SURFACE STORAGE ALTERNATIVES USING PREFABRICATED CONCRETE WASHOUT DEVICES OR A LINED ABOVE GROUND STORAGE AREA SHOULD BE USED.
 - THE CWA SHALL BE INSTALLED PRIOR TO CONCRETE PLACEMENT ON SITE.
 - CWA SHALL INCLUDE A FLAT SUBSURFACE PIT THAT IS AT LEAST 8' BY 8' SLOPES LEADING OUT OF THE SUBSURFACE PIT SHALL BE 3:1 OR FLATTER. THE PIT SHALL BE AT LEAST 3' DEEP.
 - BERM SURROUNDING SIDING AND BACK OF THE CWA SHALL HAVE MINIMUM HEIGHT OF 1'.
 - VEHICLE TRACKING PAD SHALL BE SLOPED 2% TOWARDS THE CWA.
 - SIGNS SHALL BE PLACED AT THE CONSTRUCTION ENTRANCE, AT THE CWA, AND ELSEWHERE AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE CWA TO OPERATORS OF CONCRETE TRUCKS AND PUMP RIGS.
 - USE EXCAVATED MATERIAL FOR PERIMETER BERM CONSTRUCTION.
- CWA MAINTENANCE NOTES:**
- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
 - FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
 - WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
 - THE CWA SHALL BE REPAIRED, CLEANED, OR ENLARGED AS NECESSARY TO MAINTAIN CAPACITY FOR CONCRETE WASTE. CONCRETE MATERIALS ACCUMULATED IN PIT, SHALL BE REMOVED ONCE THE MATERIALS HAVE REACHED A DEPTH OF 2'.
 - CONCRETE WASHOUT WATER, WASTED PIECES OF CONCRETE AND ALL OTHER DEBRIS IN THE SUBSURFACE PIT SHALL BE TRANSPORTED FROM THE JOB SITE IN A WATER-TIGHT CONTAINER AND DISPOSED OF PROPERLY.
 - THE CWA SHALL REMAIN IN PLACE UNTIL ALL CONCRETE FOR THE PROJECT IS PLACED.
 - WHEN THE CWA IS REMOVED, COVER THE DISTURBED AREA WITH TOP SOIL, SEED AND MULCH OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE LOCAL JURISDICTION.

- STABILIZED CONSTRUCTION ENTRANCE/EXIT INSTALLATION NOTES:**
- SEE PLAN VIEW FOR:
 - LOCATION OF CONSTRUCTION ENTRANCE(S)/EXIT(S)
 - TYPE OF CONSTRUCTION ENTRANCE(S)/EXIT(S) (WITH/WITHOUT WHEEL WASH, CONSTRUCTION MAT OR TRM).
 - CONSTRUCTION MAT OR TRM STABILIZED CONSTRUCTION ENTRANCES ARE ONLY TO BE USED ON SHORT DURATION PROJECTS (TYPICALLY RANGING FROM A WEEK TO A MONTH) WHERE THERE WILL BE LIMITED VEHICULAR ACCESS.
 - A STABILIZED CONSTRUCTION ENTRANCE/EXIT SHALL BE LOCATED AT ALL ACCESS POINTS WHERE VEHICLES ACCESS THE CONSTRUCTION SITE FROM PAVED RIGHT-OF-WAYS.
 - STABILIZED CONSTRUCTION ENTRANCE/EXIT SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.
 - A NON-WOVEN GEOTEXTILE FABRIC SHALL BE PLACED UNDER THE STABILIZED CONSTRUCTION ENTRANCE/EXIT PRIOR TO THE PLACEMENT OF ROCK.
 - UNLESS OTHERWISE SPECIFIED BY LOCAL JURISDICTION, ROCK SHALL CONSIST OF DOT SECT. #703, AASHTO #3 COARSE AGGREGATE OR 6" (MINUS) ROCK.
- STABILIZED CONSTRUCTION ENTRANCE/EXIT MAINTENANCE NOTES:**
- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
 - FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
 - WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
 - ROCK SHALL BE REPLACED OR REGRADED AS NECESSARY TO THE STABILIZED ENTRANCE/EXIT TO MAINTAIN A CONSISTENT DEPTH.
 - SEDIMENT TRACKED ONTO PAVED ROADS IS TO BE REMOVED THROUGHOUT THE DAY AND AT THE END OF THE DAY BY SHOVELING OR SWEEPING. SEDIMENT MAY NOT BE WASHED DOWN STORM SEWER DRAINS.



VICINITY MAP N.T.S.

BENCHMARK



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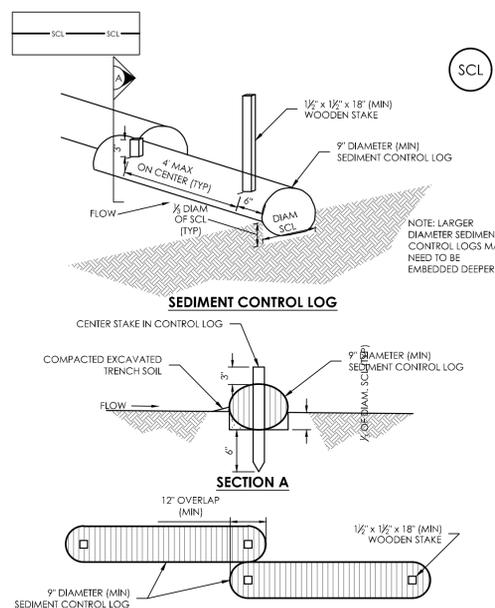
THE TOWNHOMES AT
BRADLEY CROSSROADS

GRADING & EROSION
CONTROL PLAN
EROSION DETAILS

C1.6 MVE PROJECT 61093
MVE DRAWING GEC-EC

FEBRUARY 11, 2019
SHEET 6 OF 7

EPC PROJ NO. PPR1846



SCL-1. SEDIMENT CONTROL LOG

SEDIMENT CONTROL LOG INSTALLATION NOTES:

- SEE PLAN VIEW FOR LOCATION AND LENGTH OF SEDIMENT CONTROL LOGS.
- SEDIMENT CONTROL LOGS THAT ACT AS A PERIMETER CONTROL SHALL BE INSTALLED PRIOR TO ANY UPGRADIENT LAND-DISTURBING ACTIVITIES.
- SEDIMENT CONTROL LOGS SHALL CONSIST OF STRAW, COMPOST, EXCELSDOR OR COCONUT FIBER, AND SHALL BE FREE OF ANY NOXIOUS WEED SEEDS OR DEFECTS INCLUDING RIPS, HOLES AND OBVIOUS WEAR.
- SEDIMENT CONTROL LOGS MAY BE USED AS SMALL CHECK DAMS IN DITCHES AND SWALES. HOWEVER, THEY SHOULD NOT BE USED IN PERENNIAL STREAMS OR HIGH VELOCITY DRAINAGE WAYS.
- IT IS RECOMMENDED THAT SEDIMENT CONTROL LOGS BE TRENCHED INTO THE GROUND TO A DEPTH OF APPROXIMATELY 1/3 OF THE DIAMETER OF THE LOG. IF TRENCHING TO THIS DEPTH IS NOT FEASIBLE AND/OR DESIRABLE (SHORT TERM INSTALLATION WITH DESIRE NOT TO DAMAGE LANDSCAPE) A LESSER TRENCHING DEPTH MAY BE ACCEPTABLE WITH MORE ROBUST STAKING.
- THE UPBIL SIDE OF THE SEDIMENT CONTROL LOG SHALL BE BACKFILLED WITH SOIL THAT IS FREE OF ROCKS AND DEBRIS. THE SOIL SHALL BE TIGHTLY COMPACTED INTO THE SHAPE OF A RIGHT TRIANGLE USING A SHOVEL OR WEIGHTED LAWN ROLLER.
- FOLLOW MANUFACTURERS' GUIDANCE FOR STAKING. IF MANUFACTURERS' INSTRUCTIONS DO NOT SPECIFY SPACING, STAKES SHALL BE PLACED ON 4' CENTERS AND EMBEDDED A MINIMUM OF 6" INTO THE GROUND. 3" OF THE STAKE SHALL PROTRUDE FROM THE TOP OF THE LOG. STAKES THAT ARE BROKEN PRIOR TO INSTALLATION SHALL BE REPLACED.

MULCHING SPECIFICATIONS

INSTALLATION REQUIREMENTS:

- ALL DISTURBED AREAS MUST BE MULCHED WITHIN 21 DAYS AFTER FINAL GRADE AND SEEDED AREAS ARE TO BE MULCHED WITHIN 24 HOURS AFTER SEEDING.
- MATERIALS USED FOR MULCH CAN BE CERTIFIED CLEAN, WEED- AND SEED-FREE LONG STEMMED FELD OR WASH HAY, OR STRAW OF OATS, BARLEY, WHEAT, RYE, OR TRITICALE CERTIFIED BY THE COLORADO DEPARTMENT OF AGRICULTURE WEED FREE FORAGE CERTIFICATION PROGRAM.
- HYDRAULIC MULCHING MATERIAL SHALL CONSIST OF VIRGIN WOOD FIBER MANUFACTURED FROM CLEAN WHOLE WOOD CHIPS. WOOD CHIPS CANNOT CONTAIN ANY GROWTH OR GERMINATION INHIBITORS OR BE PRODUCED FROM RECYCLED MATERIAL. GRAVEL CAN ALSO BE USED.
- MULCH IS TO BE APPLIED EVENLY AT A RATE OF 2 TONS PER ACRE.
- MULCH IS TO BE ANCHORED EITHER BY CRIMPING (TUCKING MULCH FIBERS 4 INCHES INTO THE SOIL), USING NETTING (USED ON SMALL AREAS WITH STEEP SLOPES), OR WITH A TACKIFIER.
- HYDRAULIC MULCHING AND TACKIFIERS ARE NOT TO BE USED IN THE PRESENCE OF FREE SURFACE WATER.

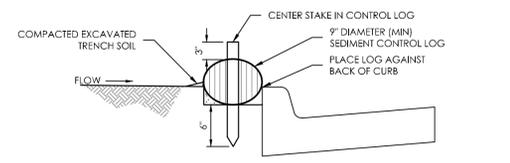
MAINTENANCE REQUIREMENTS:

- REGULAR INSPECTIONS ARE TO BE MADE OF ALL MULCHED AREAS.
- MULCH IS TO BE REPLACED IMMEDIATELY IN THOSE AREAS IT HAS BEEN REMOVED, AND IF NECESSARY THE AREA SHOULD BE RESEEDED.

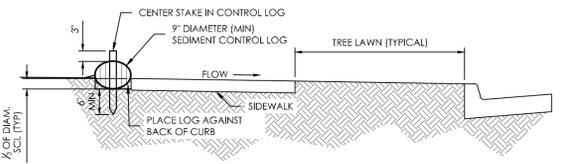
TEMPORARY SEEDING SPECIFICATIONS

INSTALLATION REQUIREMENTS:

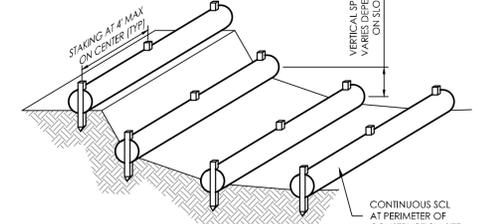
- DISTURBED AREAS ARE TO BE SEEDED WITHIN 21 DAYS AFTER CONSTRUCTION ACTIVITY OR GRADING ENDS IF SEASON ALLOWS.
- IF NECESSARY, SOIL IS TO BE CONDITIONED FOR PLANT GROWTH BY APPLYING TOPSOIL, FERTILIZER, OR LIME.
- SOIL IS TO BE TILLED IMMEDIATELY PRIOR TO APPLYING SEEDS. COMPACT SOILS ESPECIALLY NEED TO BE LOOSENED.
- SEEDING DEPTH IS TO BE 4 INCHES FOR SLOPES FLATTER THAN 2:1, AND 1 INCH FOR SLOPES STEEPER THAN 2:1.
- ANNUAL GRASSES LISTED IN TABLE TS-1 ARE TO BE USED FOR TEMPORARY SEEDING. SEED MIXES ARE NOT TO CONTAIN ANY NOXIOUS WEED SEEDS INCLUDING RUSSIAN OR CANADIAN THISTLE, KNAPWEED, PURPLE LOOSESTRIFE, EUROPEAN BINDWEED, JOHNSON GRASS, AND LEAFY SPURGE.
- TABLE TS-1 ALSO PROVIDES REQUIREMENTS FOR SEEDING RATES, SEEDING DATES, AND PLANTING DEPTHS FOR THE APPROVED TYPES OF ANNUAL GRASSES.
- SEEDING IS TO BE APPLIED USING MECHANICAL TYPE DRILLS EXCEPT WHERE SLOPES ARE STEEP OR ACCESS IS LIMITED THEN HYDRAULIC SEEDING MAY BE USED.
- ALL SEEDED AREAS ARE TO BE MULCHED (SEE FACTSHEET ON MULCHING).
- IF HYDRAULIC SEEDING IS USED THEN HYDRAULIC MULCHING SHALL BE DONE SEPARATELY TO AVOID SEEDS BECOMING ENCAPSULATED IN THE MULCH.



SCL-2. SEDIMENT CONTROL LOG AT BACK OF CURB



SCL-3. SEDIMENT CONTROL LOG AT SIDEWALK WITH TREE LAWN



SCL-4. SEDIMENT CONTROL LOGS TO CONTROL SLOPE LENGTH

SEDIMENT CONTROL LOG MAINTENANCE NOTES:

- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
- SEDIMENT ACCUMULATED UPSTREAM OF SEDIMENT CONTROL LOG SHALL BE REMOVED AS NEEDED TO MAINTAIN FUNCTIONALITY OF THE BMP. TYPICALLY WHEN DEPTH OF ACCUMULATED SEDIMENTS IS APPROXIMATELY 1/2 OF THE HEIGHT OF THE SEDIMENT CONTROL LOG.
- SEDIMENT CONTROL LOG SHALL BE REMOVED AT THE END OF CONSTRUCTION, IF DISTURBED AREAS EXIST AFTER REMOVAL. THEY SHALL BE COVERED WITH TOP SOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE LOCAL JURISDICTION.

MAINTENANCE REQUIREMENTS:

- REGULAR INSPECTIONS ARE TO BE MADE OF ALL SEEDED AREAS TO ENSURE GROWTH.
- AREAS WHERE THE GROWTH IS NOT OCCURRING QUICKLY OR THE MULCH HAS BEEN REMOVED SHALL BE RE-SEEDED AS SOON AS POSSIBLE AND RE-MULCHED IF NEEDED.
- SEEDED AREAS ARE NOT TO BE DRIVEN OVER WITH CONSTRUCTION EQUIPMENT OR VEHICLES.

TABLE TS-1

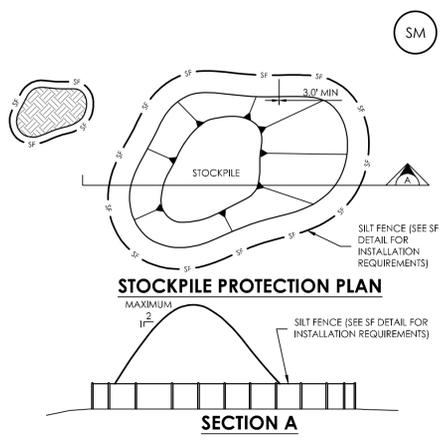
SPECIES* (COMMON NAME)	GROWTH SEASON**	POUNDS OF PURE LIVE SAND (PLS)/ACRE***	PLANTING DEPTH (INCHES)
1. OATS	COOL	35-50	1-2
2. SPRING WHEAT	COOL	25-35	1-2
3. SPRING BARLEY	COOL	25-35	1-2
4. ANNUAL RYEGRASS	COOL	10-15	1/2
5. MILLET	WARM	3-15	1/2 - 1
6. SUDANGRASS	WARM	5-10	1/2 - 1
7. SORGHUM	WARM	5-10	1/2 - 1
8. WINTER WHEAT	COOL	20-35	1-2
9. WINTER BARLEY	COOL	20-35	1-2
10. WINTER RYE	COOL	20-35	1-2
11. TRITICALE	COOL	25-40	1-2

* SUCCESSFUL SEEDING OF ANNUAL GRASS RESULTING IN ADEQUATE PLANT GROWTH WILL USUALLY PRODUCE ENOUGH DEAD-PLANT RESIDUE TO PROVIDE PROTECTION FROM WIND AND WATER EROSION FOR AN ADDITIONAL YEAR. THIS ASSUMES THAT THE COVER IS NOT DISTURBED OR MOWED CLOSER THAN 8 INCHES.

HYDRAULIC SEEDING MAY BE SUBSTITUTED FOR DRILLING ONLY WHERE SLOPES ARE STEEPER THAN 3:1 OR WHERE ACCESS LIMITATIONS EXIST. WHEN HYDRAULIC SEEDING IS USED, HYDRAULIC MULCHING SHOULD BE APPLIED AS A SEPARATE OPERATION, WHEN PRACTICAL, TO PREVENT THE SEEDS FROM BEING ENCAPSULATED IN THE MULCH.

** SEE TABLE TS-3 FOR SEEDING DATES. IRRIGATION, IF CONSISTENTLY APPLIED, MAY EXTEND THE USE OF COOL SEASON SPECIES DURING THE SUMMER MONTHS.

*** SEEDING RATES SHOULD BE DOUBLED IF SEED IS BROADCAST, OR INCREASED BY 50 PERCENT IF DONE USING A BRILLIANT DRILL OR BY HYDRAULIC SEEDING.



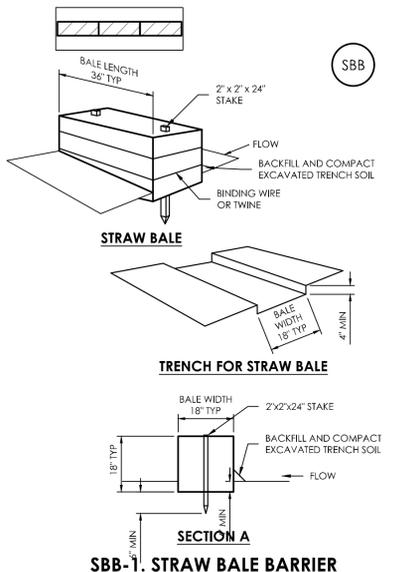
SP-1. STOCKPILE PROTECTION

STOCKPILE PROTECTION INSTALLATION NOTES:

- SEE PLAN VIEW FOR:
 - LOCATION OF STOCKPILES.
 - TYPE OF STOCKPILE PROTECTION.
- INSTALL PERIMETER CONTROLS IN ACCORDANCE WITH THEIR RESPECTIVE DESIGN DETAILS. SILT FENCE IS SHOWN IN THE STOCKPILE PROTECTION DETAILS; HOWEVER, OTHER TYPES OF PERIMETER CONTROLS INCLUDING SEDIMENT CONTROL LOGS OR ROCK SOCKS MAY BE SUITABLE IN SOME CIRCUMSTANCES. CONSIDERATIONS FOR DETERMINING THE APPROPRIATE TYPE OF PERIMETER CONTROL FOR A STOCKPILE INCLUDE WHETHER THE STOCKPILE IS LOCATED ON A PERVIOUS OR IMPERVIOUS SURFACE, THE RELATIVE HEIGHTS OF THE PERIMETER CONTROL AND STOCKPILE, THE ABILITY OF THE PERIMETER CONTROL TO CONTAIN THE STOCKPILE WITHOUT FAILING IN THE EVENT THAT MATERIAL FROM THE STOCKPILE SHEETS OR SLUMPS AGAINST THE PERIMETER, AND OTHER FACTORS.
- STABILIZE THE STOCKPILE SURFACE WITH SURFACE ROUGHENING, TEMPORARY SEEDING AND MULCHING, EROSION CONTROL BLANKETS, OR SOIL BINDERS. SOILS STOCKPILED FOR AN EXTENDED PERIOD (TYPICALLY FOR MORE THAN 60 DAYS) SHOULD BE SEEDED AND MULCHED WITH A TEMPORARY GRASS COVER ONCE THE STOCKPILE IS PLACED (TYPICALLY WITHIN 14 DAYS). USE OF MULCH ONLY OR A SOIL BINDER IS ACCEPTABLE IF THE STOCKPILE WILL BE IN PLACE FOR A MORE LIMITED TIME PERIOD (TYPICALLY 30-60 DAYS).
- FOR TEMPORARY STOCKPILES ON THE INTERIOR PORTION OF A CONSTRUCTION SITE, WHERE OTHER DOWNGRADIENT CONTROLS, INCLUDING PERIMETER CONTROL, ARE IN PLACE, STOCKPILE PERIMETER CONTROLS MAY NOT BE REQUIRED.

STOCKPILE PROTECTION MAINTENANCE NOTES:

- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
- IF PERIMETER PROTECTION MUST BE MOVED TO ACCESS SOIL STOCKPILE, REPLACE PERIMETER CONTROLS BY THE END OF THE WORKDAY.
- STOCKPILE PERIMETER CONTROLS CAN BE REMOVED ONCE ALL THE MATERIAL FROM THE STOCKPILE HAS BEEN USED.



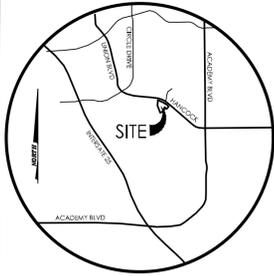
SBB-1. STRAW BALE BARRIER

STRAW BALE INSTALLATION NOTES:

- SEE PLAN VIEW FOR:
 - LOCATION(S) OF STRAW BALES.
- STRAW BALES SHALL CONSIST OF CERTIFIED WEED FREE STRAW OR HAY. LOCAL JURISDICTIONS MAY REQUIRE PROOF THAT BALES ARE WEED FREE.
- STRAW BALES SHALL CONSIST OF APPROXIMATELY 5 CUBIC FEET OF STRAW OR HAY AND WEIGH NOT LESS THAN 35 POUNDS.
- WHEN STRAW BALES ARE USED IN SERIES AS A BARRIER, THE END OF EACH BALE SHALL BE TIGHTLY ABUTTING ONE ANOTHER.
- STRAW BALE DIMENSIONS SHALL BE APPROXIMATELY 36"x18"x18".
- A UNIFORM ANCHOR TRENCH SHALL BE EXCAVATED TO A DEPTH OF 4". STRAW BALES SHALL BE PLACED SO THAT BINDING TWINE IS ENCOMPASSING THE VERTICAL SIDES OF THE BALES. ALL EXCAVATED SOIL SHALL BE PLACED ON THE UPBIL SIDE OF THE STRAW BALE(S) AND COMPACTED.
- TWO (2) WOODEN STAKES SHALL BE USED TO HOLD EACH BALE IN PLACE. WOODEN STAKES SHALL BE 2" x 2" x 24". WOODEN STAKES SHALL BE DRIVEN 6" INTO THE GROUND.

STRAW BALE MAINTENANCE NOTES:

- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
- STRAW BALES SHALL BE REPLACED IF THEY BECOME HEAVILY SOILED, ROTTEN, OR DAMAGED BEYOND REPAIR.
- SEDIMENT ACCUMULATED UPSTREAM OF STRAW BALE BARRIER SHALL BE REMOVED AS NEEDED TO MAINTAIN FUNCTIONALITY OF THE BMP. TYPICALLY WHEN DEPTH OF ACCUMULATED SEDIMENTS IS APPROXIMATELY 1/2 OF THE HEIGHT OF THE STRAW BALE BARRIER.
- STRAW BALES ARE TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND APPROVED BY THE LOCAL JURISDICTION.
- WHEN STRAW BALES ARE REMOVED, ALL DISTURBED AREAS SHALL BE COVERED WITH TOPSOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED AS APPROVED BY LOCAL JURISDICTION.



VICINITY MAP NOT TO SCALE

BENCHMARK



REVISIONS

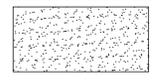
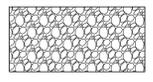
DESIGNED BY _____
 DRAWN BY _____
 CHECKED BY _____
 AS-BUILTS BY _____
 CHECKED BY _____

2515 LARAMIE DR
 OFFICE/WAREHOUSE
 C1.7
 GRADING, EROSION,
 STORMWATER QUALITY
 CONTROL PLAN
 EROSION DETAILS 2

MVE PROJECT **51367**
 MVE DRAWING **GESC-ED2**

OCTOBER 22, 2018
 SHEET 7 OF 7

PROPOSED GROUND PLANE TREATMENT

-  PROPOSED IRRIGATED FESCUE BLEND SOD
-  PROPOSED 5' TO 12' GRANITE RIP-RAP OVER DEWITT LANDSCAPE FABRIC
-  PROPOSED 1.5" BLUE GRAY RIVER ROCK COBBLE, 3" DEPTH, OVER DEWITT LANDSCAPE FABRIC
-  PROPOSED NON-IRRIGATED 'LOW GROW' NATIVE GRASS WITH EROSION CONTROL BLANKET
-  PROPOSED 1.5" ROYAL GRANITE CRUSHED ROCK, 3" DEPTH, OVER DEWITT LANDSCAPE FABRIC
-  PROPOSED COMPACTED RED BREEZE GRAVEL, 3" DEPTH, OVER DEWITT LANDSCAPE FABRIC

SITE CATEGORY CALCULATIONS:

Landscape Setbacks

Street Name or Boundary	Street Classification	Width (in Ft.) Req./Prov.	Linear Footage	Tree/Foot Required	No. of Trees Req./Prov.	Setback Plant Abbr. Denoted on Plan
Pleasant Port View (north)	Private collector	10' / 15'	471'	1 / 30'	16 / 24	(see Buffer & Screens requirements)
Pleasant Port View (east)	Private collector	10' / 15'	483'	1 / 30'	16 / 25	(see Buffer & Screens requirements)
Gladiator Drive	Non arterial	10' / 15'	451'	1 / 30'	15 / 23	(see Buffer & Screens requirements)

Parking

No. of Vehicles Spaces Provided	Shade Trees Required/Provided	Abbr. on Plan	Vehicle Lot Frontages	Length of Frontage (excluding driveways)	2/3 Length of Frontage (ft.)
221	15 / 15	(PK)	Pleasant Port View	36'	24'

Min. 3' Screening Plants Req./Prov.	Evergreen Plants Req. (50%) / Prov.	Length of Screening Wall or Berm Provided	Vehicle Lot Plant Abbr. on Plan	Percent Ground Plane Veg. Req. / Prov.
6 / 6	3 / 3	-	(PS)	75% / 75%

Internal Landscaping

Net Site Area (SF) (less public ROW)	Percent Minimum Internal Area (%)	Internal Area (SF) Required/Provided	Internal Trees (1/500 SF) Required/Provided
228,241 s.f.	15%	34,236 s.f. / 65,320 s.f.	68 / 34

Shrub Substitutes Required/Provided: 340 / 340 (IN)
 Internal Plant Abbr. Denoted on Plan

Landscape Buffer & Screens

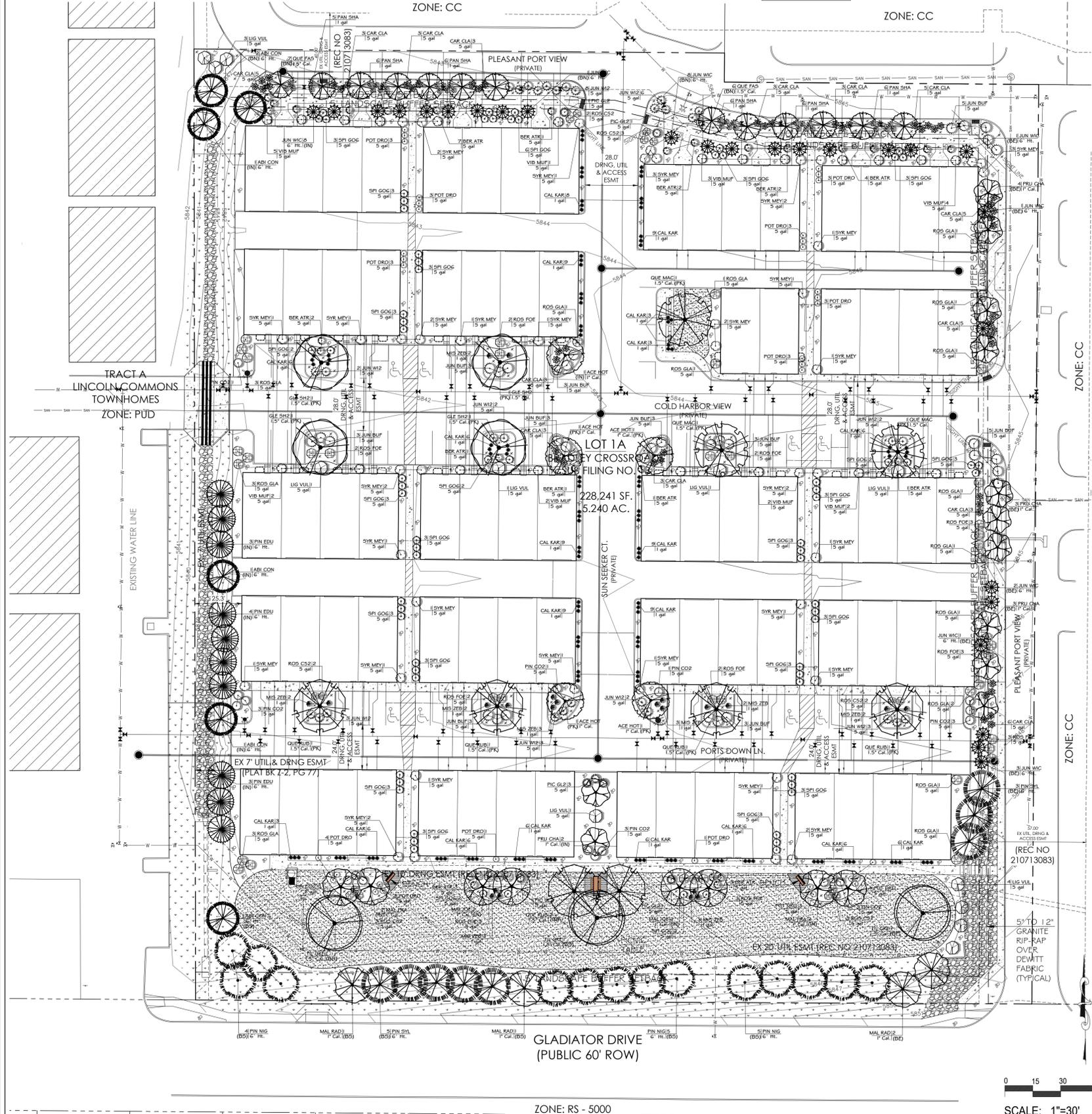
Street Name or Property Line	Width (in Ft.) Req. / Prov.	Linear Footage	Buffer Trees (1/20') Required / Provided	Evergreen Trees Req. (1/3) / Provided
North Boundary	15' / 15'	471'	24 / 24	8 / 11
East Boundary	15' / 15'	493'	25 / 25	9 / 10
South Boundary	15' / 15'	451'	23 / 23	8 / 15

Length of 6 Ft. Opaque Structure Req. / Prov.

Length	Buffer Tree Abbr. Denoted on Plan	Percent Ground Plane Veg. Req. / Prov.
0' / 0'	(BN)	75% / 75%
0' / 0'	(BE)	75% / 75%
0' / 0'	(BS)	75% / 75%

PLANT SCHEDULE

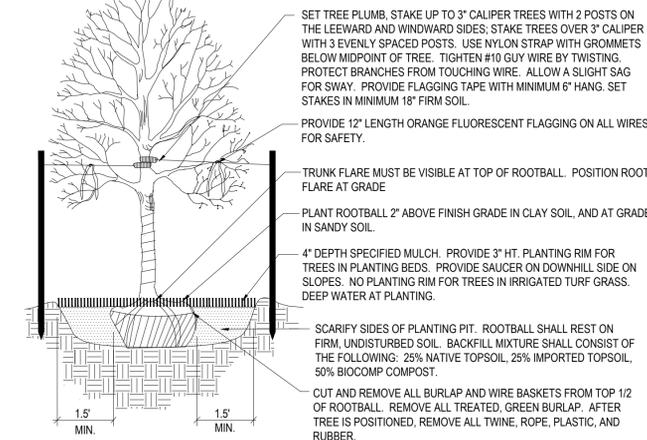
TREES	CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	NOTES
ABI CON	6	Abies concolor	White Fir	6" HL	B # B	
ACE HOT	5	Acer tatanicum 'Hot Wings'	Hot Wings Tatanan Maple	1" Cal.	B # B	
GLE SH2	4	Gleditsia tnananthos niemis 'Shademaster' TM	Shademaster Locust	1.5" Cal.	B # B	
JUN WIC	26	Juniperus scopulorum 'Wichita Blue'	Wichita Blue Juniper	6" HL		
MAL IOC	4	Malus ioensis 'Flora'	Bechtel Crab Apple	1" Cal.	B # B	
MAL PRA	4	Malus x 'Praefire'	Praefire Crab Apple	1" Cal.	B # B	
MAL RAD	4	Malus x 'Radiant'	Radiant Crab Apple	1" Cal.	B # B	
PIN EDU	10	Pinus contorta edulis	Pinyon Pine	6" HL	B # B	
PIN NIG	14	Pinus nigra	Austrian Black Pine	6" HL	B # B	
PIN SYL	8	Pinus sylvestris	Scotch Pine	6" HL	B # B	
PRU CHA	12	Pyrus calleryana 'Chanticleer'	Chanticleer Pear	1" Cal.	B # B	
QUE MAC	3	Quercus macrocarpa	Burr Oak	1.5" Cal.	B # B	
QUE FAS	13	Quercus robur 'Fastigata'	Fastigata English Oak	1.5" Cal.	B # B	
QUE RUB	6	Quercus rubra	Northern Red Oak	1.5" Cal.	B # B	
TIL GRE	3	Tilia cordata 'Greenspire'	Greenspire Littleleaf Linden	1.5" Cal.	B # B	
SHRUBS	CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	NOTES
BER ATR	26	Berberis thunbergii 'Atropurpurea'	Red Leaf Japanese Barberry	5 gal		
CAR CLA	53	Caryopteris x clandonensis 'Blue Mist'	Blue Mist Spirea	5 gal		
JUN W12	31	Juniperus horizontalis 'Wiltoni'	Wilton Carpet Juniper	5 gal		
JUN BUF	34	Juniperus sabina 'Buffalo'	Buffalo Juniper	5 gal		
LIG VUL	13	Ligustrum vulgare 'Cheyenne'	Cheyenne Privet	5 gal		
PIC GL2	7	Picea pungens glauca 'Globosa'	Globed Colorado Blue Spruce	5 gal		
PIN CO2	16	Pinus mugo 'Compacta'	Dwarf Mugo Pine	5 gal		
POT DRO	37	Potentilla fruticosa 'Gold Drop'	Gold Drop Potentilla	5 gal		
ROS FOE	25	Rosa foetida bicolor	Austrian Copper Rose	5 gal		
ROS GLA	22	Rosa glauca	Radleaf Rose	5 gal		
ROS CS2	15	Rosa x 'Carefree Delight'	Carefree Delight Rose	5 gal		
SPI GOG	73	Spiraea japonica 'Goldflame'	Goldflame Spirea	5 gal		
SYR MEY	41	Syringa meyeri 'Palibin'	Dwarf Korean Lilac	5 gal		
VIB MUF	21	Viburnum dentatum 'Blue Muffin'	Blue Muffin Arrowwood Viburnum	5 gal		
GRASSES	CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	NOTES
CAL KAR	132	Calamagrostis x acutiflora 'Kari Foerster'	Feather Reed Grass	1 gal		
MIS ZEB	22	Miscanthus sinensis 'Zebinus'	Zebra Grass	1 gal		
PAN SHA	35	Panicum virgatum 'Shenandoah'	Burgundy Switch Grass	1 gal		



ZONE: RS - 5000

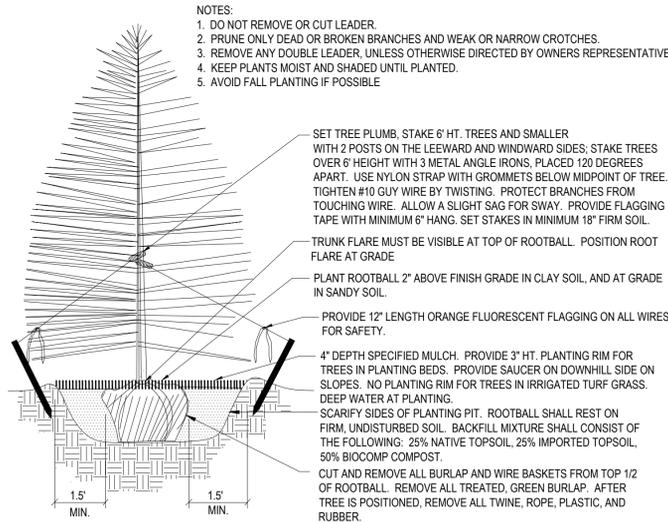
PLANTING DETAILS

- NOTES:
- DO NOT REMOVE OR CUT LEADER.
 - PRUNE ONLY DEAD OR BROKEN BRANCHES AND WEAK OR NARROW CROTCHES.
 - DO NOT REMOVE LOWER LIMBS AND SPROUTS FOR AT LEAST TWO GROWING SEASONS.
 - KEEP PLANTS MOIST AND SHADED UNTIL PLANTED.
 - DO NOT FERTILIZE FOR AT LEAST ONE GROWING SEASON.
 - WRAP TRUNK ON EXPOSED SITES OR SPECIES WITH THIN BARK. USE ELECTRICAL TAPE NOT TWINE. WRAP OCTOBER 15 AND REMOVE BY MARCH 31.



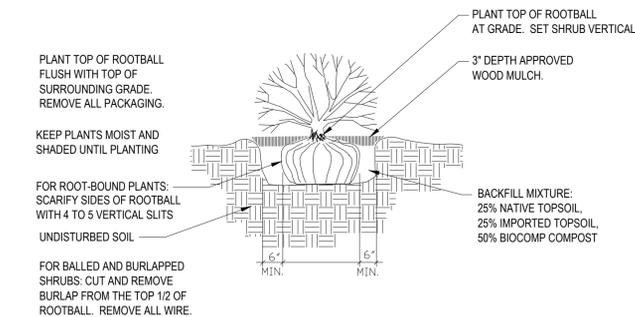
1 Deciduous Tree Planting Detail

NOT TO SCALE



2 Coniferous Tree Planting Detail

NOT TO SCALE

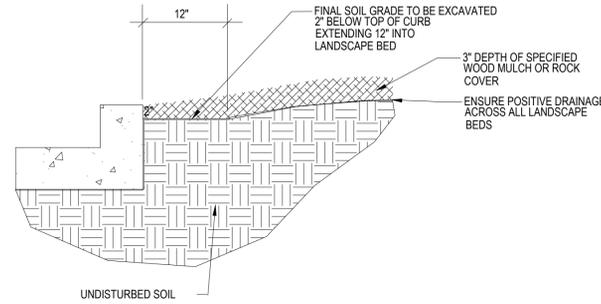


3 Shrub Planting Detail

SCALE: NOT TO SCALE

4 Rock Cover / Mulch Bed Excavation

SCALE: NOT TO SCALE



PROJECT DATA

PROPERTY SIZE:	228,241 s.f. total
BUILDING AREA:	38,640 s.f.
PAVEMENT AREA:	124,281 s.f.
LANDSCAPE AREA:	65,320 s.f.
TOTAL PARKING SPACES:	221 spaces
RESIDENTIAL UNITS:	78 units total

GENERAL NOTES

- ALL REFERENCES TO 'CONTRACTOR' REFER TO LANDSCAPE CONTRACTOR, UNLESS OTHERWISE NOTED.
- CONTRACTOR IS RESPONSIBLE FOR GETTING ALL UTILITY LOCATES 1-800-922-1987 PRIOR TO STARTING ANY WORK ON SITE AND ALSO HAVING UTILITIES RELOCATED AS NECESSARY FOR THE DURATION OF CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL LANDSCAPE SHOWN ON THIS PLAN. ANY DEFICIENCIES OR DEVIATIONS FROM THIS PLAN ARE TO BE APPROVED BY OWNER'S REPRESENTATIVE OR LANDSCAPE ARCHITECT. ANY CHANGES FROM THE APPROVED PLANS MAY REQUIRE APPROVAL FROM THE EL PASO COUNTY PLANNING DEPARTMENT AND MAY DELAY COMPLETION OF PROJECT.
- CONTRACTOR IS RESPONSIBLE FOR VERIFYING QUANTITIES OF MATERIALS NEEDED TO COMPLETE THIS PLAN IN THE FIELD. NOTIFY OWNER'S REPRESENTATIVE OF DISCREPANCIES BETWEEN THE DRAWINGS AND CONDITIONS IN THE FIELD. SUBSTITUTIONS OF LANDSCAPE MATERIALS ARE NOT ALLOWED WITHOUT APPROVAL FROM LANDSCAPE ARCHITECT GIVEN PRIOR TO INSTALLATION. NOTIFY LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION IF LANDSCAPE MATERIAL LOCATIONS NEED TO BE ALTERED DUE TO ON-SITE CONDITIONS.
- CONTRACTOR IS TO PROVIDE A ONE YEAR WARRANTY ON ALL PLANT MATERIALS, SOD, IRRIGATION COMPONENTS, NATIVE GRASS, AND WORKMANSHIP. CONTRACTOR IS TO PROVIDE OWNER WITH WARRANTY CONDITIONS AND COMMENCE WARRANTY PERIOD UPON FINAL ACCEPTANCE OF LANDSCAPE INSTALLATION.
- CONTRACTOR SHALL REFER TO ASSOCIATED LANDSCAPE CONTRACTORS OF COLORADO SPECIFICATIONS HANDBOOK, 1996 (OR MORE RECENT) REVISED EDITION FOR SPECIFICATIONS RELATING TO LANDSCAPE AND IRRIGATION CONSTRUCTION ON THIS SITE. REFER TO SECTIONS 02810, 02930, 02940, AND 02950. CONTRACTOR SHOULD CONTACT OWNER'S REPRESENTATIVE OR LANDSCAPE ARCHITECT FOR CLARIFICATIONS OR QUESTIONS.
- THE OWNER OF THIS PROPERTY AND ANY FUTURE OWNERS SHALL BE RESPONSIBLE FOR THE PROPER LANDSCAPE AND IRRIGATION MAINTENANCE OF THIS SITE. MAINTENANCE OF THIS SITE INCLUDES, BUT IS NOT LIMITED TO, IRRIGATION INSPECTIONS AND ADJUSTMENTS, IRRIGATION SYSTEM SHUT DOWN AND START UP, IRRIGATION LEAK REPAIR, LANDSCAPE WEEDING, MOVING, SEEDING, FERTILIZATION, WOOD MULCH AND ROCK COVER REPLACEMENT, PRUNING, AND PLANT MATERIAL REPLACEMENT. ALL MAINTENANCE SHOULD BE IN ACCORDANCE WITH STANDARDS SPECIFIED WITHIN THE "ALCC SPECIFICATIONS HANDBOOK" REVISED EDITION- 1996. OWNER SHOULD CONTACT LANDSCAPE CONTRACTOR OR LANDSCAPE ARCHITECT REGARDING ANY QUESTIONS RELATING TO THE LANDSCAPE OR IRRIGATION MAINTENANCE OF THIS SITE.

PROJECT NOTES

- ALL EXISTING TREES, WHICH CONSIST OF VOLUNTEER SIBERIAN ELMS, ON THE PROJECT SITE ARE TO BE REMOVED.
- FINE GRADING TO BE PERFORMED BY LANDSCAPE CONTRACTOR TO REFLECT FINISHED GRADES SHOWN ON THE PROJECT GRADING PLANS. ALL FINISHED GRADES ARE TO HAVE A MINIMUM 2% SLOPE. CONTRACTOR IS TO REPORT POOR DRAINAGE CONDITIONS OR ANY GRADES IN LANDSCAPE AREAS LESS THAN 2% TO GENERAL CONTRACTOR AND LANDSCAPE ARCHITECT PRIOR TO LANDSCAPE CONSTRUCTION WORK. FINISHED GRADES SHALL BE FREE OF WEEDS AND FREE OF DEBRIS AND ROCKS GREATER THAN ONE INCH.
- CONTRACTOR IS TO PROVIDE FINAL GRADES ADJACENT TO HARDSCAPE SURFACES AT THE FOLLOWING SPECIFICATIONS:
2" BELOW TOP OF CONCRETE OR RETAINING WALLS FOR ALL MULCH AND ROCK COVER BEDS.
1" BELOW TOP OF CONCRETE OR RETAINING WALLS FOR IRRIGATED TURF AND NATIVE SEED AREAS.
CONTRACTOR IS TO COORDINATE THESE GRADING SPECIFICATIONS WITH GENERAL CONTRACTOR AND/OR WHOEVER IS PROVIDING ROUGH GRADING. FINAL GRADES IN ALL LANDSCAPE AREAS ARE TO BE ESTABLISHED USING ON-SITE STOCKPILED TOPSOIL.
- ALL AREAS SHOWN AS 'NON-IRRIGATED NATIVE SEED' TO BE SEEDED WITH 'LOW GROW NATIVE SEED MIX' (PAWNEE BUTTE SEED, INC.) BY DRILL SEEDING AND HYDRO-MULCH SEEDING AT A RATE OF 2 LBS. PER 1,000 SQ. FT. REFER TO NATIVE SEED ESTABLISHMENT SPECIFICATION FOR MORE DETAILED INSTRUCTIONS. ALL SEEDED AREAS TO RECEIVE EROSION CONTROL BLANKET- R1 EXCEL WESTERN EXCELSIOR PHOTO-DEGRADABLE EROSION CONTROL BLANKET. INSTALL PER MANUFACTURER'S INSTRUCTIONS.
- ROCK COVER AREAS TO CONSIST OF 1.5" DIAMETER 'ROYAL GRANITE' CRUSHED ROCK (C&C SAND), SPREAD 3" DEPTH OVER LANDSCAPE FABRIC AND 1.5" DIAMETER BLUE GRAY RIVER ROCK COBBLE, 3" DEPTH OVER LANDSCAPE FABRIC. RIP-RAP AREAS TO RECEIVE 5" TO 12" DIAMETER OF 'CIMARRON' (C&C SAND) ROCK OVER LANDSCAPE FABRIC. RED BREEZE GRAVEL IS TO BE PROVIDED AT BENCH AND PICNIC TABLE AREAS, 3" COMPACTED DEPTH OVER LANDSCAPE FABRIC. REFER TO PLAN FOR LOCATIONS OF EACH TYPE OF ROCK. LANDSCAPE FABRIC TO CONSIST OF 'DEWITT' WEED BARRIER PRO, 3 OZ BLACK WOVEN POLYPROPYLENE FABRIC. FABRIC TO OVERLAP 6" MINIMUM AT ALL SEAMS. 6" STEEL ANCHOR PINS TO BE INSTALLED 6" O.C. MAX.
- PROPOSED SOD IS TO CONSIST OF A FESCUE BLEND. SOD IS TO HAVE LOW CLAY CONTENT. SOD BED IS TO BE RAKED SMOOTH AND FREE OF DEBRIS AND ROCKS GREATER THAN ONE HALF INCH. SOD IS TO BE LAID WITH TIGHT STAGGERED EDGES AND BE ROLLED AFTER INSTALLATION.
- ALL PROPOSED PLANTING BEDS ARE TO BE ROTO-TILLED TO A 6" DEPTH. PLANTING BEDS ARE TO BE RAKED SMOOTH AND FINISHED GRADES ARE TO BE ESTABLISHED AND VERIFIED TO THE TOLERANCES LISTED ABOVE PRIOR TO PLANTING. PARKING LOT ISLANDS WHERE TREES ARE PROPOSED ARE TO BE EXCAVATED TO A 30" DEPTH, 8" DIAMETER AT PROPOSED TREE LOCATIONS AND HALF OF EXCAVATED SOIL IS TO BE MIXED WITH IMPORTED TOPSOIL AND REPLACED INTO ISLANDS.
- AFTER PLANTING, BUT BEFORE LANDSCAPE FABRIC IS INSTALLED, ALL PLANTING BEDS ARE TO RECEIVE A GRANULAR PRE-EMERGENT HERBICIDE (PREEN OR SNAPSHOT). APPLY PER MANUFACTURER'S INSTRUCTIONS. CONTRACTOR IS TO SPRAY ALL PLANTING BEDS WITH WATER IMMEDIATELY AFTER MULCH IS INSTALLED TO REMOVE PRE-EMERGENT FROM FOLIAGE AND ACTIVATE HERBICIDE.
- GORILLA HAIR WOOD MULCH IS TO BE PROVIDED AROUND ALL THE BASE OF ALL TREES, 4" DIAMETER, 3" DEPTH. NO LANDSCAPE FABRIC TO BE INSTALLED BENEATH MULCH.
- STEEL EDGING IS TO CONSIST OF 16 GAUGE PERFORATED GALVANIZED ROLLED-TOP STEEL EDGING. EDGING IS TO BE USED TO SEPARATE TURF, NATIVE GRASS, AND ROCK COVER AREAS, UNLESS OTHERWISE NOTED ON PLAN. EDGING IS TO BE PARTIALLY BURIED SO THAT HALF OF EDGING HEIGHT IS BELOW FINISHED SOIL GRADE. 12" STEEL EDGING PINS TO BE INSTALLED EVERY 4' O.C. MAX. ENDS OF STEEL EDGING TO OVERLAP 6" MINIMUM WITH AND HAVE TWO PINS SECURING OVERLAPPED ENDS.

SOIL PREPARATION NOTES

- PROPOSED BLUEGRASS SOD AREAS:** ALL SODDED AREAS TO RECEIVE 4 CU. YDS. PER 1,000 SQ. FT. OF 'BIOCOMP' SOIL AMENDMENTS (C&C SAND) INCORPORATED INTO EXISTING SOIL AND ROTO-TILLED TO A 6" DEPTH.
- PROPOSED NATIVE GRASS AREAS:** ALL SEEDED AREAS TO RECEIVE 2 CU. YDS. PER 1,000 SQ. FT. OF 'BIOCOMP' SOIL AMENDMENTS (C&C SAND) INCORPORATED INTO EXISTING SOIL AND ROTO-TILLED TO A 6" DEPTH.
- PROPOSED TREES AND SHRUBS:** ALL PROPOSED TREES ARE TO BE BACKFILLED WITH A MIXTURE OF 'BIOCOMP' SOIL AMENDMENT AND IMPORTED GRADE A TOPSOIL (C&C SAND). REFER TO PLANTING DETAILS.

IRRIGATION NOTES

- ALL PROPOSED TREES AND SHRUBS ARE TO BE WATERED BY A PROPOSED DRIP IRRIGATION SYSTEM. IRRIGATION SYSTEM SHALL INCLUDE AUTOMATIC CONTROLLER, RAIN SENSOR, BACKFLOW PREVENTER (INSTALLED PER LOCAL CODES), AND TWO QUICK COUPLERS EVENLY SPACED ALONG MAINLINE. TREES TO HAVE (4) 1 GPH EMITTERS EACH EVENLY SPACED AT EDGE OF ROOT BALL, SHRUBS / ORNAMENTAL GRASSES TO HAVE (2) 1 GPH EMITTERS EACH EVENLY SPACED AT EDGE OF ROOT BALL. ALL DRIP PIPE SHALL BE SECURED WITH 6" METAL STAKES AND BURIED.
- ALL FESCUE SOD AREAS TO BE IRRIGATED WITH POP-UP SPRAY HEADS AND/OR ROTARY HEADS. IRRIGATION HEADS TO BE SPACED FOR HEAD TO HEAD COVERAGE.
- ALL DISTURBED NATIVE SEED AREAS TO RECEIVE TEMPORARY IRRIGATION UNTIL NATIVE GRASS IS ESTABLISHED. REFER TO NATIVE SEED ESTABLISHMENT NOTES. HOSES ARE TO BE CONNECTED TO BUILDING HOSE BIBS AND IRRIGATION QUICK COUPLERS TO MANUALLY WATER PROPOSED NATIVE SEED AREAS WITH PORTABLE SPRINKLERS UNTIL ESTABLISHED. TEMPORARY SPRAY IRRIGATION ZONES CAN BE CREATED TO IRRIGATE NATIVE SEED AREAS UNTIL ESTABLISHED.



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PROJECT NO. 4735
DATE: 11 February 2019

DEVELOPMENT PLAN FOR
TOWNHOMES AT BRADLEY CROSSROADS
4735 Bradley Road, Colorado Springs, CO
El Paso County, CO

PROJECT NAME:

FINAL
LANDSCAPE
PLAN

SHEET TITLE:

DATE: 11 February 2019

REVISION:

STAMP:

SHEET NO.

L2



FRONT VIEW



REAR VIEW

NO: REVISIONS

JAC
Drafting Services

719-498-8214
J. Elliott

12218 Crystal Downs Rd.

**ELEVATION VIEWS
FOR
MASTER PLAN**

DATE: 3/19/18

SCALE: AS SHOWN

JOB NO.: 1000

SHEET:

A 1.0

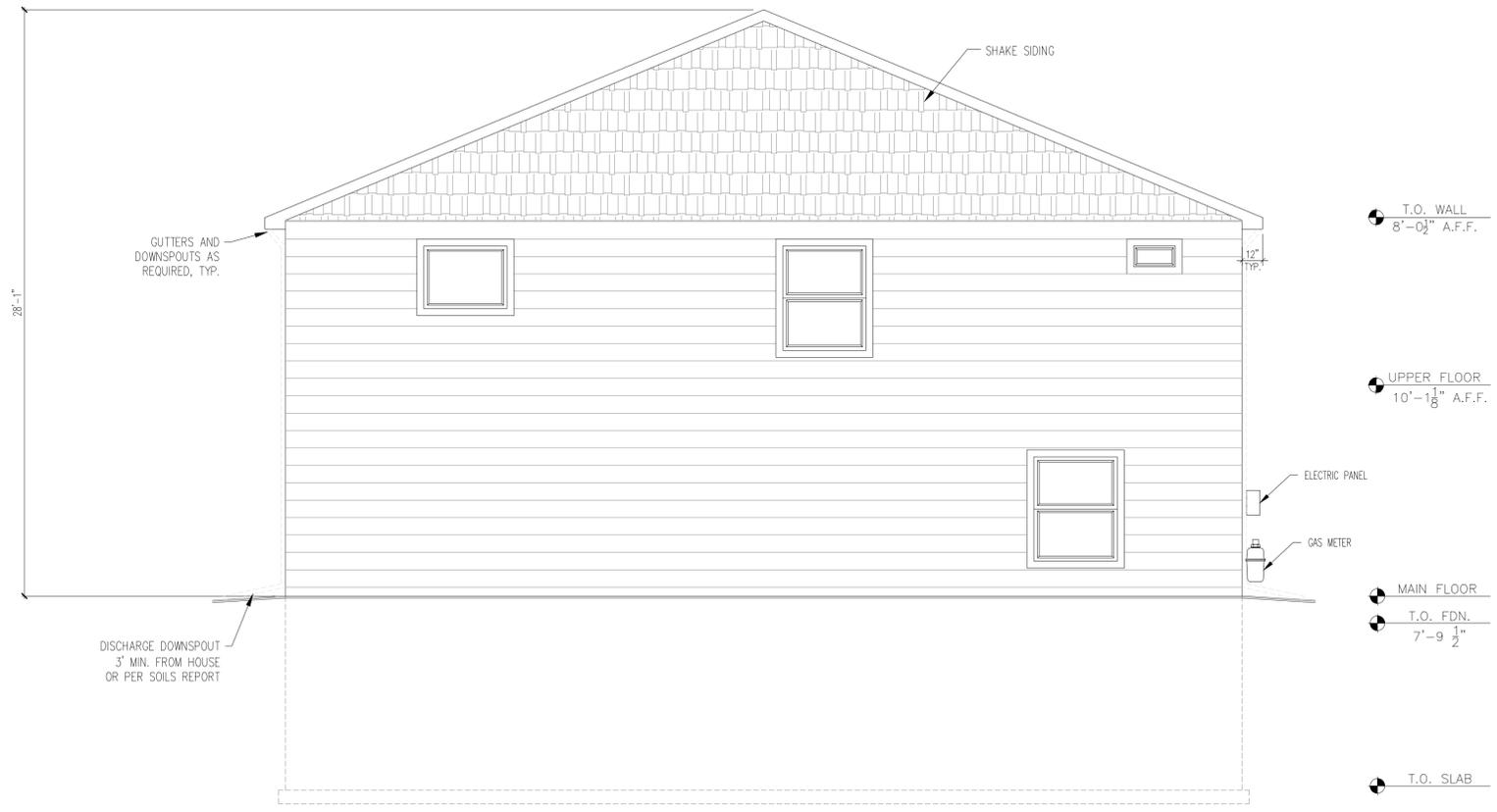
NO.	REVISIONS

JAC
Drafting Services

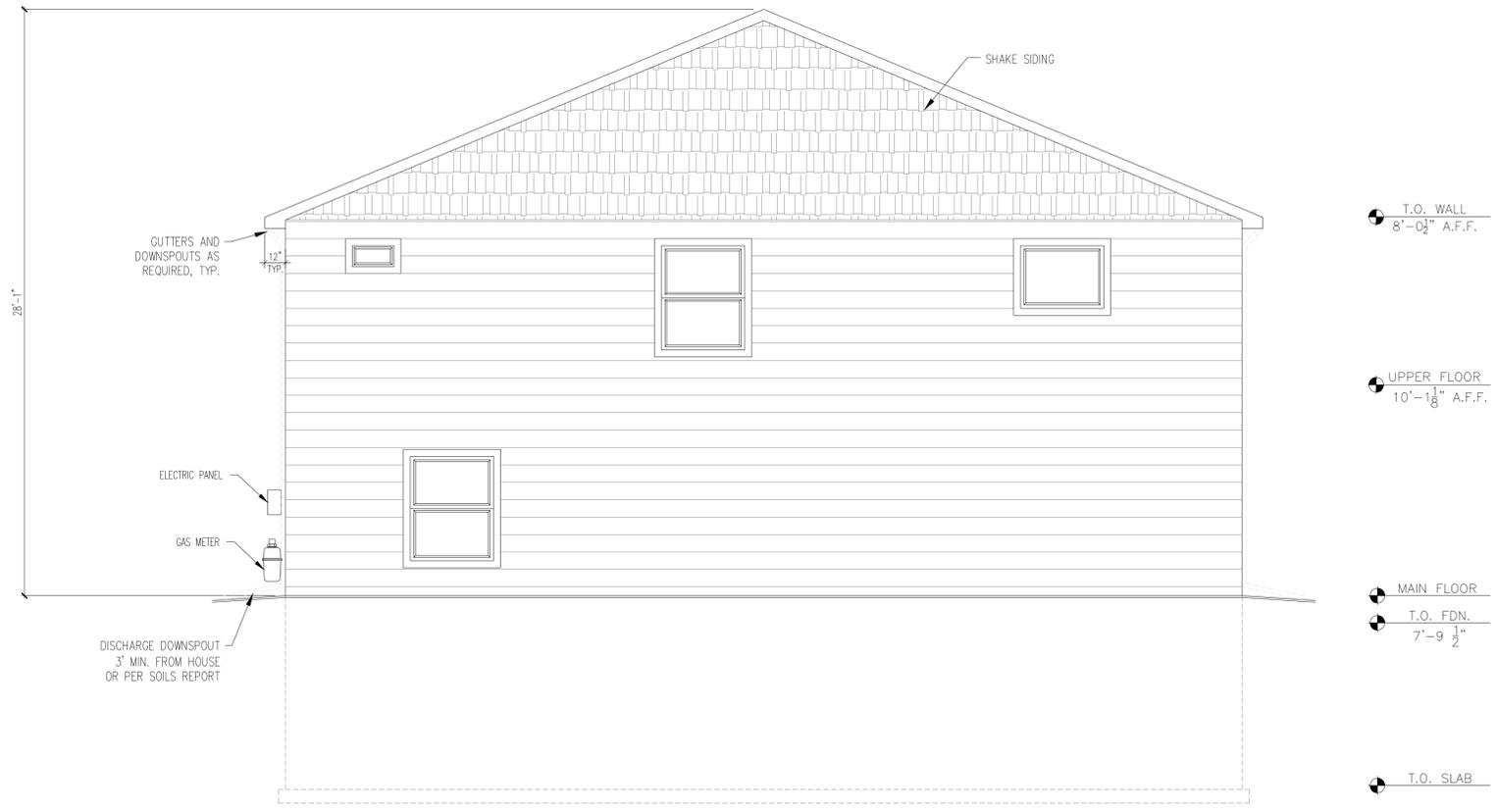
719-498-8214
A. J. Elliott
12218 Crystal Downs Rd.

**ELEVATION VIEWS
FOR
MASTER PLAN**

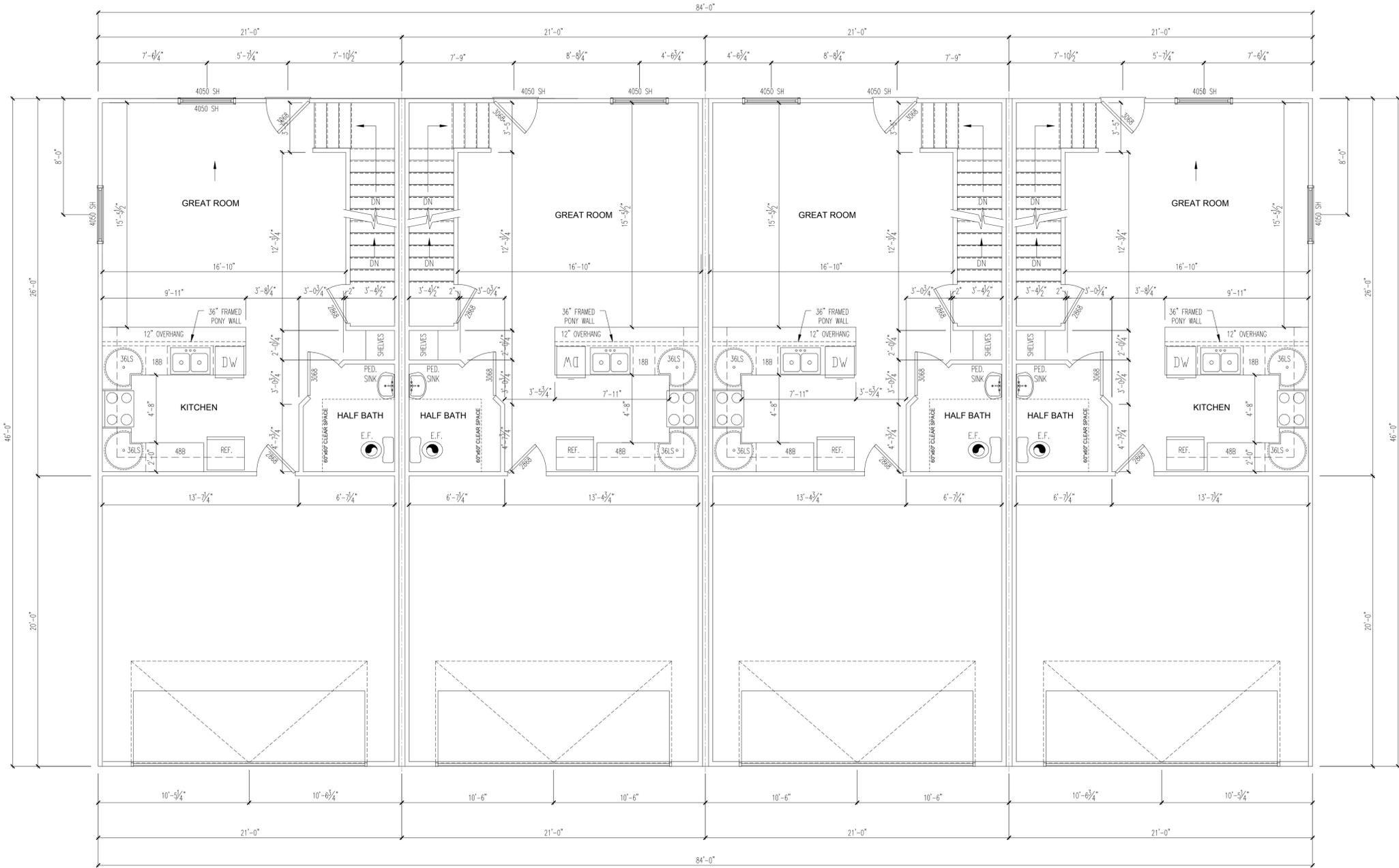
DATE: 3/19/18
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JOB NO.: 1000
SHEET:
A 2.0



LEFT VIEW



RIGHT VIEW



SQUARE FOOTAGE(BASEMENT MODEL)

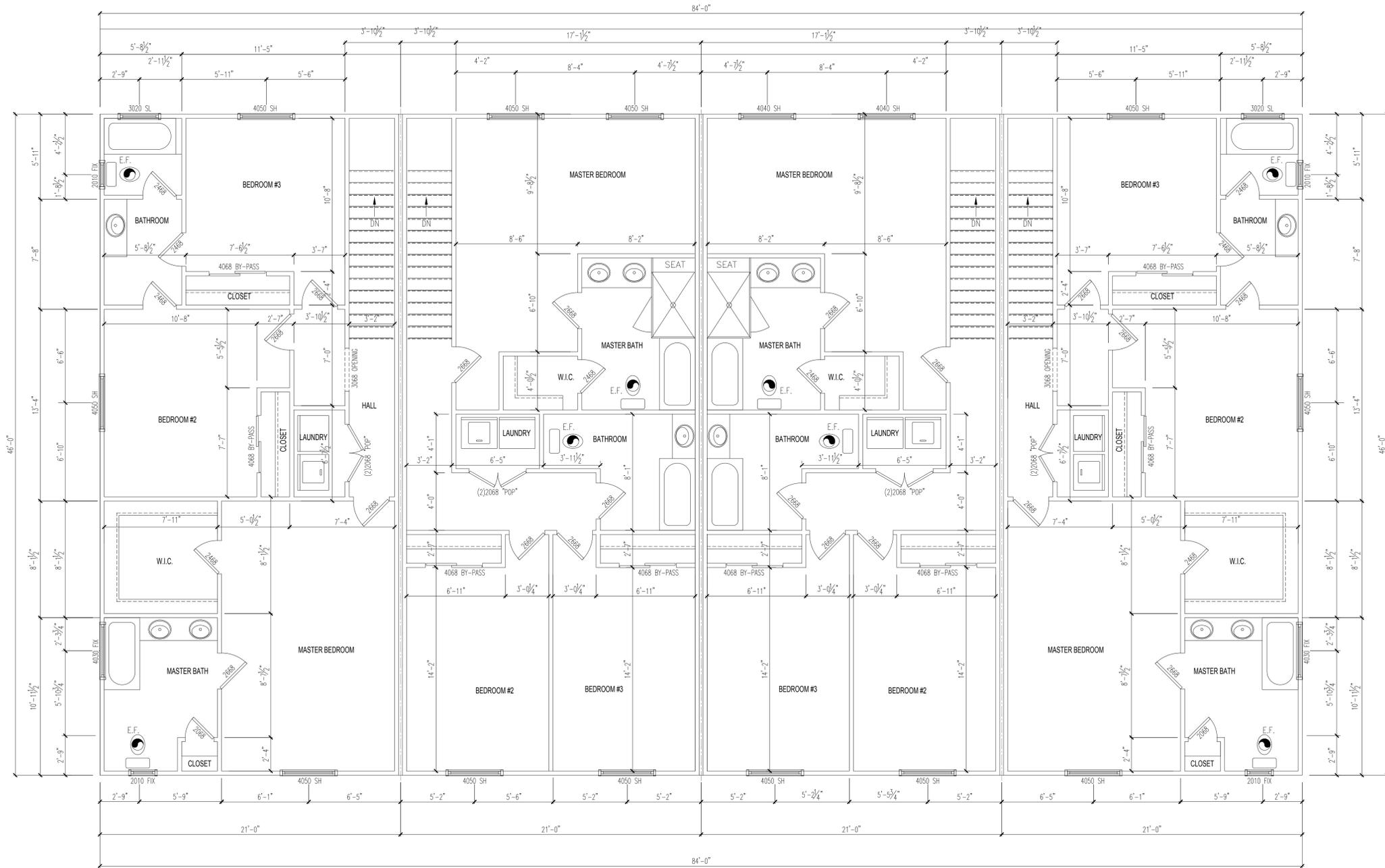
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 UPPER FLOOR: 960

 TOTAL LIVING: 1990

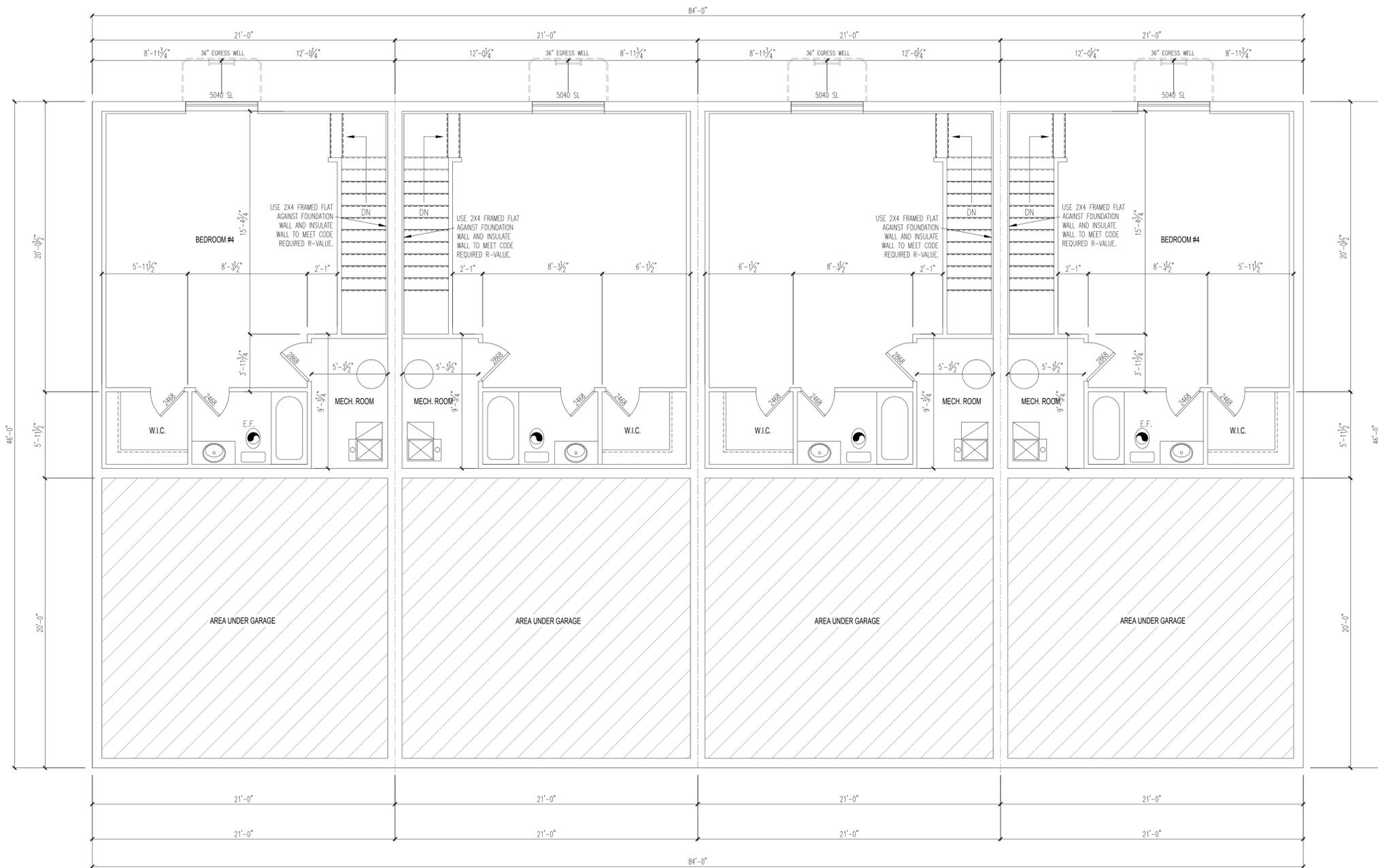
 U/F BSMT: 489

 2 CAR GARAGE: 416

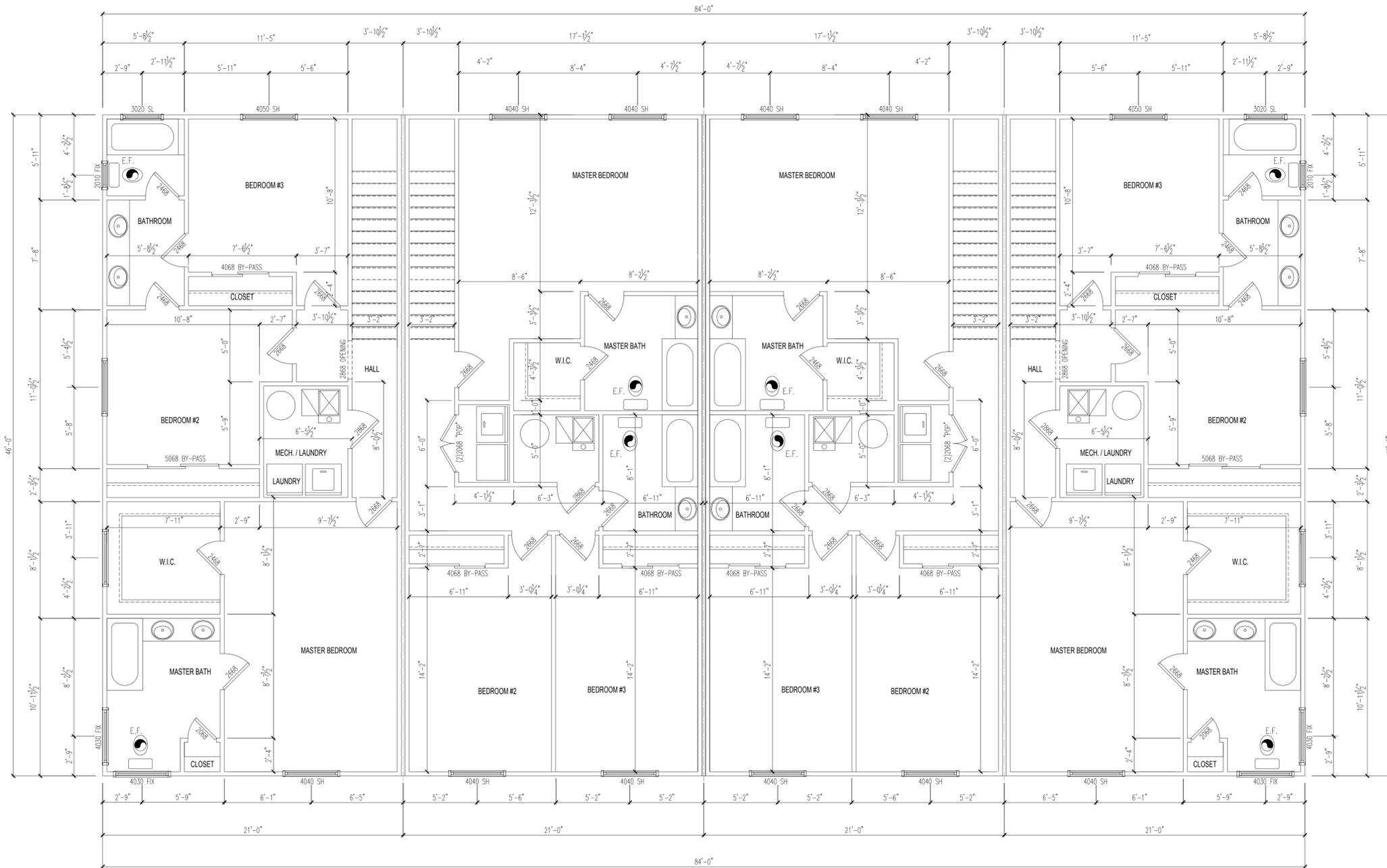
MAIN LEVEL



UPPER LEVEL

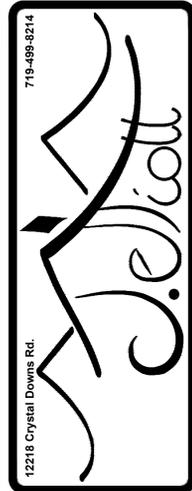


BASEMENT LEVEL



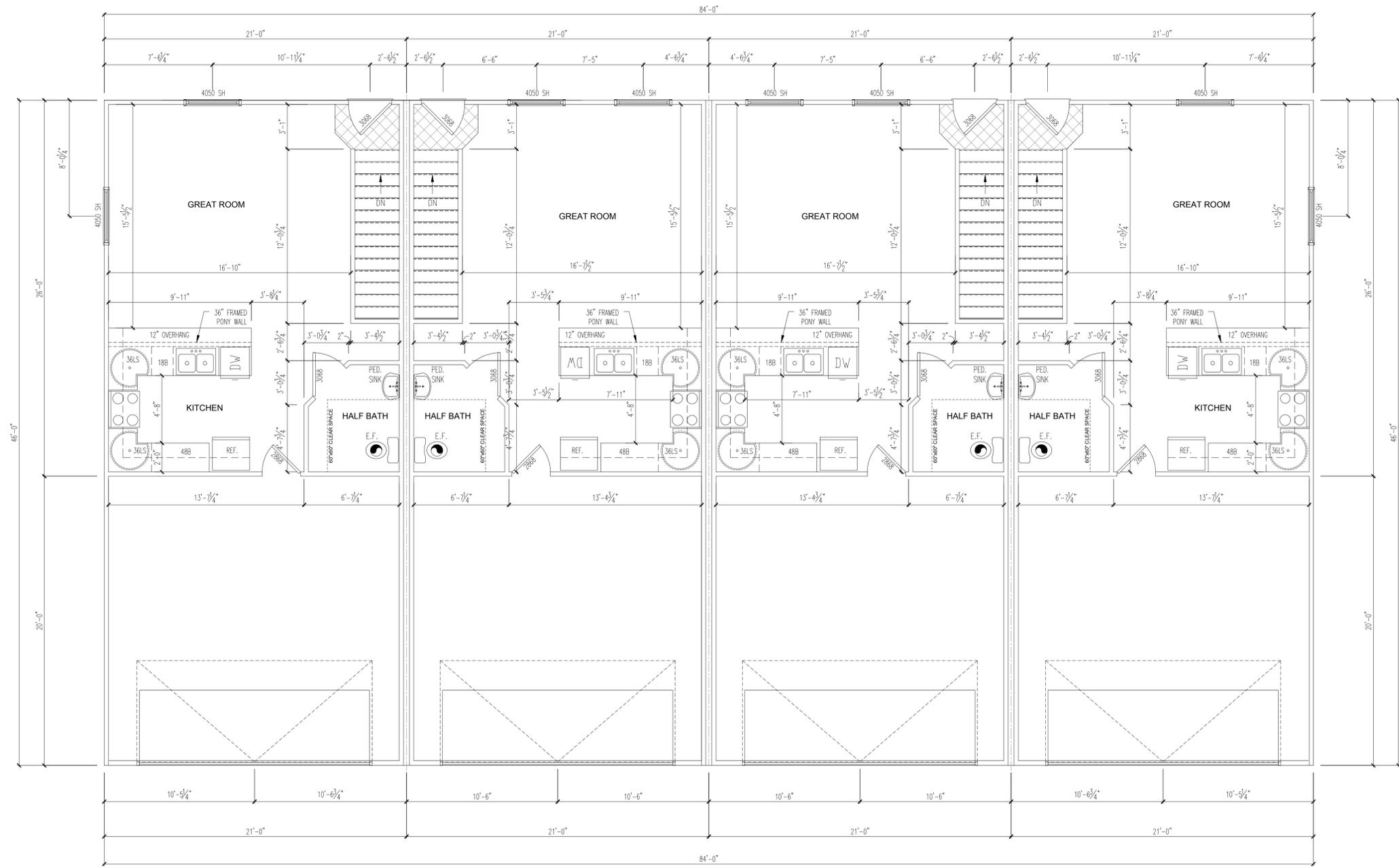
UPPER LEVEL (SLAB)

NO:	REVISIONS



**MAIN LEVEL
FOR
MASTER PLAN**

DATE: 3/19/18
SCALE: AS SHOWN
JOB NO.: 1000
SHEET:
A 7.0



MAIN LEVEL (SLAB)

SQUARE FOOTAGE(SLAB MODEL)

MAIN FLOOR: 541
UPPER FLOOR: 960

TOTAL LIVING: 1501

2 CAR GARAGE: 416