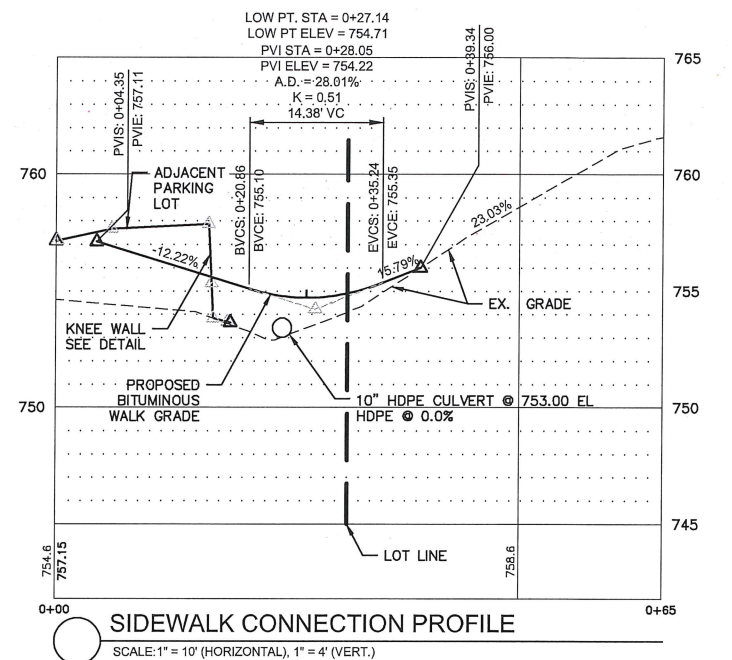




1. GRADING CONTRACTOR SHALL VERIFY LOCATIONS AND ELEVATIONS OF ALL UNDERGROUND UTILITIES WITH THE RESPECTIVE UTILITY COMPANIES PRIOR TO CONSTRUCTION
2. ALL EROSION CONTROL MEASURES CALLED FOR ON THESE PLANS AND SPECIFICATIONS, WHICH MAY INCLUDE SILT FENCE, SEDIMENTATION BASINS OR TEMPORARY SEDIMENT TRAPS, SHALL BE CONSTRUCTED AND SERVICEABLE IN THE FOLLOWING ORDER:

- A. ROCK CONSTRUCTION ENTRANCES.
- B. SILT FENCE.
- C. COMMON EXCAVATION AND EMBANKMENT (GRADING)
- D. SEED AND MULCH OR SOD.
- E. BIO-ROLL BARRIERS IN FINISHED GRADED AREAS.
- F. INLET AND OUTLET FACILITIES SUBSEQUENT TO STORM SEWER WORK.

GRADING CONTRACTOR SHALL PROVIDE AND MAINTAIN ALL EROSION CONTROL MEASURES IN ACCORDANCE WITH CITY AND NPDES PHASE II PERMITTING REQUIREMENTS AS WELL AS EROSION CONTROL MEASURES AS MAY BE SHOWN ON THESE PLANS OR SPECIFICATIONS. GRADING CONTRACTOR SHALL IMPLEMENT ANY ADDITIONAL EROSION CONTROL MEASURES AS MAY BE REQUIRED

3. ALL EROSION CONTROL FACILITIES SHALL BE MAINTAINED BY THE CONTRACTOR DURING GRADING OPERATIONS. ANY TEMPORARY FACILITIES WHICH ARE TO BE REMOVED AS CALLED FOR ON THESE PLANS AND SPECIFICATIONS SHALL BE REMOVED BY THE GRADING CONTRACTOR WHEN DIRECTED BY THE ENGINEER. THE GRADING CONTRACTOR SHALL THEN RESTORE THE SUBSEQUENTLY DISTURBED AREA IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS.
4. THE GRADING CONTRACTOR SHALL SCHEDULE THE SOILS ENGINEER SO THAT CERTIFICATION OF ALL CONTROLLED FILLS WILL BE FURNISHED TO THE OWNER DURING AND UPON COMPLETION OF THE PROJECT.
5. ALL DISTURBED AREAS, EXCEPT AREAS TO BE PAVED AND/OR SPECIFICALLY DESIGNED BY A LANDSCAPE PLAN, SHALL BE COVERED WITH A MINIMUM 4" OF TOP SOIL. ALL DISTURBED AREAS SHALL BE SEEDED & MULCHED AT THE PRESCRIBED RATES WITHIN 72 HOURS OF FINAL GRADING UNLESS OTHERWISE NOTED.

SEED MIX: MNDOT NO. 25-141 50#/ACRE	
MULCH: TYPE 1	2 TONS/ACRE (DISK ANCHORED)
FERTILIZER: 150#/ACRE	RATE OF APPLICATION 20-10-10
6. ALL EXPOSED SOIL AREAS WITH A CONTINUOUS POSITIVE SLOPE WITHIN 200 LINEAL FEET OF ANY SURFACE WATER, MUST HAVE TEMPORARY EROSION PROTECTION OR PERMANENT COVER FOR THE EXPOSED SOIL AREAS YEAR ROUND, ACCORDING TO THE FOLLOWING TABLE OF SLOPES AND TIME FRAMES.

TYPE OF SLOPE	TIME (Maximum time an area can remain open when the area is not
---------------	---

- STEEPER THAN 3:1 7 DAYS
10:1 TO 3:1 14 DAYS
FLATTER THAN 10:1 14 DAYS
6. IT IS REQUIRED THAT SOILS TRACKED FROM THE SITE BY MOTOR VEHICLES BE CLEANED DAILY FROM PAVED ROADWAY SURFACES THROUGHOUT THE DURATION OF CONSTRUCTION.
7. ALL REQUIREMENTS OF THE LOCAL WATERSHED DISTRICT SHALL BE SATISFIED PER THE APPROVED PERMIT.
8. ALL EROSION & SEDIMENT CONTROL MEASURES SHOWN ON THIS PLAN AND IMPLEMENTED IN THE FIELD AS DIRECTED BY THE ENGINEER SHALL CONFORM TO THE MPCA'S "PROTECTING WATER QUALITY IN URBAN AREAS: BEST MANAGEMENT PRACTICES FOR MINNESOTA".
9. ALL SOLID WASTE/ CONSTRUCTION DEBRIS SHALL BE DISPOSED OF IN ACCORDANCE WITH MPCA REQUIREMENTS. HAZARDOUS MATERIALS SHALL BE STORED/ DISPOSED OF IN COMPLIANCE WITH REGULATIONS.
10. INLET SEDIMENTATION CONTROL IS TO BE PROVIDED TO ALL STORM SEWER CATCH BASINS THROUGHOUT CONSTRUCTION. MEASURES APPLIED SHALL COMPLY WITH BEST MANAGEMENT PRACTICES FOR MINNESOTA AND APPLICATIONS OF NPDES PHASE II AS APPROPRIATE FOR PHASE OF CONSTRUCTION.

<u>ITEM</u>	<u>INSTALLATION</u>	<u>INSPECTION & MAINTENANCE</u>	<u>REMOVAL</u>
SILT FENCE	PRIOR TO COMMENCEMENT OF EARTHWORK OPERATIONS.	INSPECT & MAINT. AFTER EACH RUN--OFF EVENT. REMOVE SEDIMENTS AS REQUIRED.	AFTER THE DRAINAGE RESTORED
ROCK CONST. ENTRANCE	PRIOR TO COMMENCEMENT OF EARTHWORK OPERATIONS	INSPECT REGULARLY. MAINTAIN AS NEEDED	PRIOR TO

1. **BITUMINOUS PARKING LOT, DRIVEWAY, AND SIDEWALK AREAS:** REMOVE EXISTING SOILS TO AN ELEVATION 2.75 FEET BELOW FINISHED GRADE. IMPORT 2 FEET OF SAND MEETING MndOT 3149.2B2 SELECT GRANULAR BORROW (LESS THAN 12% BY WEIGHT PASSING THE #2 SIEVE) AND PLACE IN NO MORE THAN 6 INCH LIFTS, COMPACTING EACH LIFT AS IT IS PLACED. PLACE 6 INCHES OF MndOT 3138 CLASS V AGGREGATE BASE FOLLOWED BY THE PAVEMENT MATERIAL AS SHOWN ON PLAN.

2. **PLAYGROUND AND PLANTING AREAS:** REMOVE EXISTING SOILS TO AN ELEVATION 4.5 FEET BELOW FINISHED GRADE. IMPORT 4 FEET OF CLEAN FILL AND PLACE IN NO MORE THAN 6 INCH LIFTS, COMPACTING EACH LIFT AS IT IS PLACED. PLACE 6 INCHES OF TOPSOIL FOLLOWED BY SOD/SEEDING/ETC. AS THE LANDSCAPING PLAN CALLS FOR. IN THE PLANTING AREAS BACKFILL TO MEET THE LANDSCAPE NOTES AND SPECIFICATIONS.

3. **BUILDING:** SEE ARCHITECTURAL/STRUCTURAL PLANS AND REFERENCE GEOTECHNICAL REPORT.

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NO.	DATE	DESCRIPTION OF REVISIONS

DESIGNED:	I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL CIVIL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
DRAWN:	PRINT NAME: <u>ROBERT SWANSON, P.E.</u> SIGNATURE: <u>NOT FOR CONSTRUCTION (REVIEW ONLY)</u>
CHECKED BY:	DATE: _____ LICENSE # <u>24904</u>

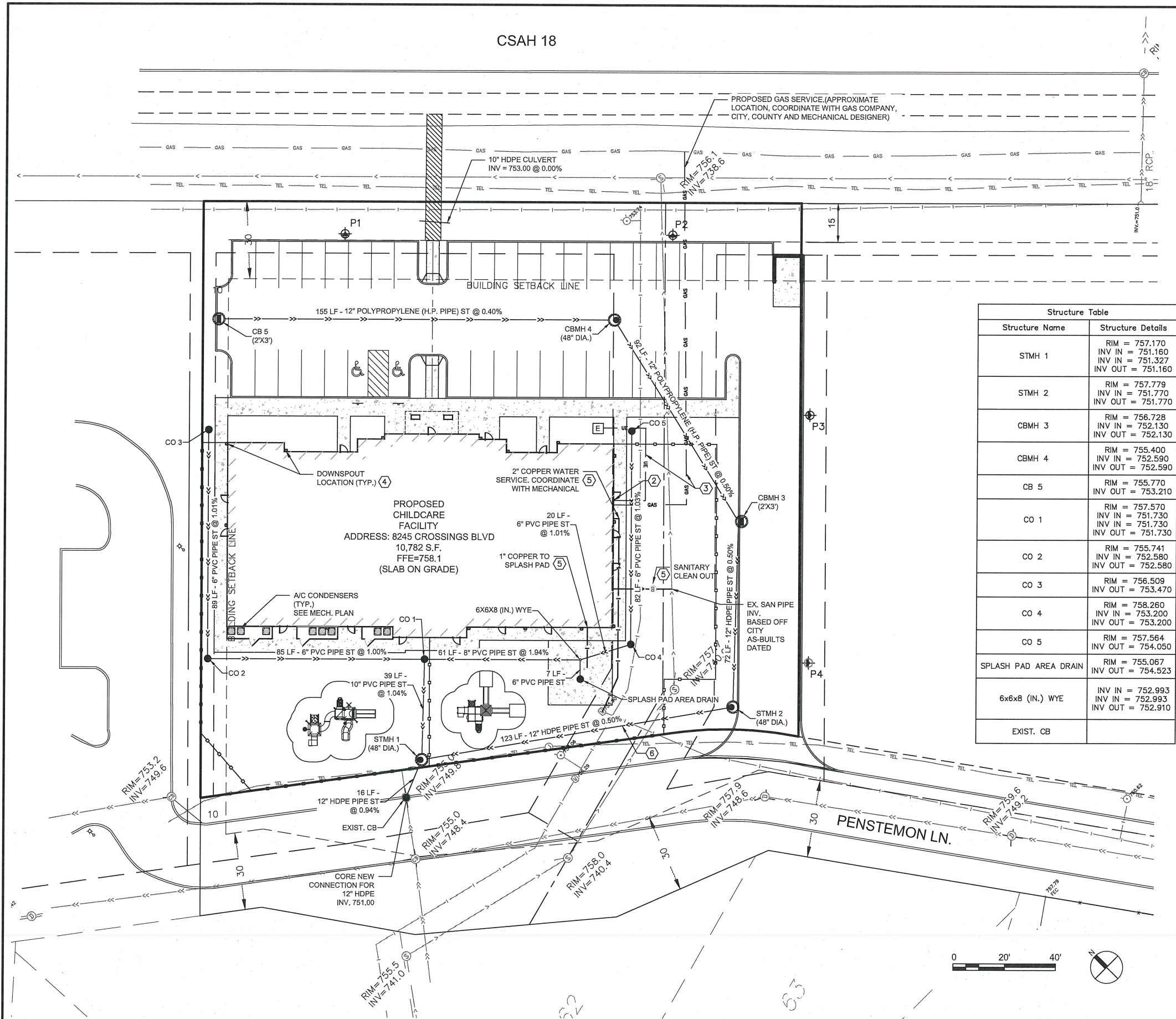


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GRADING, DRAINAGE, REMOVALS, & EROSION CONTROL PLAN

COMM. NO. 14514	PLOTTED:
DRAWING NO. C5	

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LEGEND

- EXISTING STORM SEWER
- EXISTING WATERMAIN
- EXISTING SANITARY SEWER
- EXISTING UNDERGROUND ELECTRIC
- EXISTING GAS LINE
- EXISTING FIBER OPTIC LINE
- EXISTING TELECOMMUNICATION LINE
- EXISTING LIGHT POLE
- PROPOSED STORM SEWER
- PROPOSED WATERMAIN
- PROPOSED SANITARY SEWER
- PROPOSED LIGHT POLE LOCATION
- PROPOSED CLEAN OUT (C.O.)

KEYNOTES:

- APPROXIMATE LOCATION OF LAWN IRRIGATION LINE EXITING THE BUILDING. IRRIGATION METER TO BE INSIDE THE BUILDING AND BACK FLOW PREVENTOR OUTSIDE. SEE MECHANICAL PLANS. DESIGN AND LAYOUT OF IRRIGATION SYSTEM/ZONES, TO BE PERFORMED BY OTHERS.
- APPROXIMATE ELECTRIC METER LOCATION (VERIFY W/ELEC. PLANS). ELECTRIC PAD SHOWN FOR REFERENCE ONLY, REFERENCE ARCHITECTURAL OR ELECTRICAL PLANS.
- COORDINATE ALIGNMENT & CONNECTION WITH MECHANICAL PLANS & UTILITY COMPANIES.
- REFERENCE ARCHITECTURAL PLANS FOR MULTIPLE DOWNSPOUT LOCATIONS. EACH DOWNSPOUT IS TO BE CONNECTED TO THE 6"/10" ROOF LEADER LINE PER DETAIL. CLEAN OUT LOCATIONS TO BE COORDINATED WITH FINAL ARCHITECTURAL DOWNSPOUT LOCATIONS.
- COORDINATE DOMESTIC UTILITY CONNECTIONS WITH BUILDING MECHANICAL PLAN
- APPROXIMATELY 2' OF SEPARATION BETWEEN NEW STORM SEWER AND EXISTING WATER MAIN.

NOTES:

- ALL CONSTRUCTION SHALL COMPLY WITH CITY OF SHAKOPEE ENGINEERING STANDARDS AND 2016 EDITION OF MN/DOT STANDARD CONSTRUCTION SPECIFICATIONS (INCLUDING SUPPLEMENTS), AS APPLICABLE.
- ALL CONSTRUCTION SHALL COMPLY WITH APPLICABLE CITY, COUNTY, MPAC, DEPARTMENT OF HEALTH AND MNDOT PERMIT REQUIREMENTS.
- CONTRACTOR SHALL VERIFY ALL UNDERGROUND UTILITIES IN THE AREA OF CONSTRUCTION, PRIOR TO BEGINNING THE WORK.
- SANITARY CLEANOUTS SHALL MATCH CITY DETAIL PLATE: 3008, AS SHOWN ON SHEET C7.
- ALL STORM SEWER PIPE CONNECTIONS TO STRUCTURES SHALL HAVE RESILIENT RUBBER CONNECTIONS MEETING ALL OF DEPARTMENT OF LABOR AND INDUSTRY (DOLI) STANDARDS.

Structure Table	
Structure Name	Structure Details
STMH 1	RIM = 757.170 INV IN = 751.160 INV IN = 751.327 INV OUT = 751.160
STMH 2	RIM = 757.779 INV IN = 751.770 INV OUT = 751.770
CBMH 3	RIM = 756.728 INV IN = 752.130 INV OUT = 752.130
CBMH 4	RIM = 755.400 INV IN = 752.590 INV OUT = 752.590
CB 5	RIM = 755.770 INV OUT = 753.210
CO 1	RIM = 757.570 INV IN = 751.730 INV IN = 751.730 INV OUT = 751.730
CO 2	RIM = 755.741 INV IN = 752.580 INV OUT = 752.580
CO 3	RIM = 756.509 INV OUT = 753.470
CO 4	RIM = 758.260 INV IN = 753.200 INV OUT = 753.200
CO 5	RIM = 757.564 INV OUT = 754.050
SPLASH PAD AREA DRAIN	RIM = 755.067 INV OUT = 754.523
6x6x8 (IN.) WYE	INV IN = 752.993 INV IN = 752.993 INV OUT = 752.910
EXIST. CB	



NO.	DATE	DESCRIPTION OF REVISIONS
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DRAWN:	PRINT NAME: ROBERT SWANSON, P.E. SIGNATURE: NOT FOR CONSTRUCTION (REVIEW ONLY)
CHECKED BY:	DATE: LICENSE #: 24094



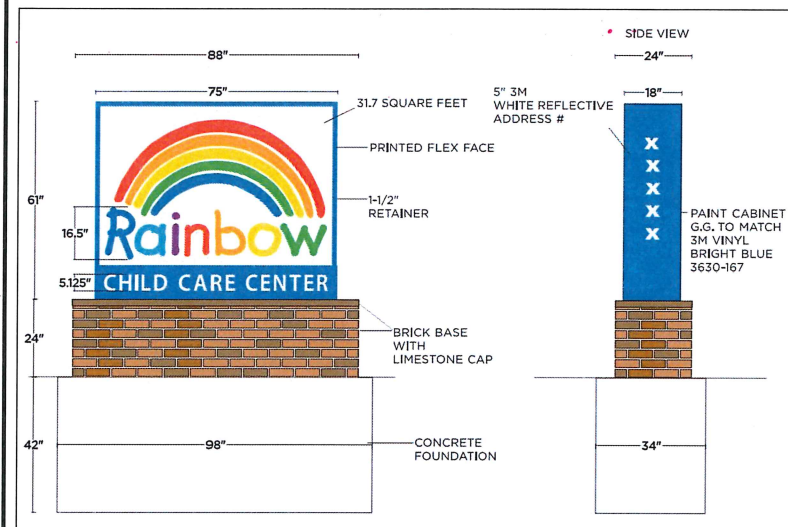
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RAINBOW DAYCARE - SHAKOPEE, MN

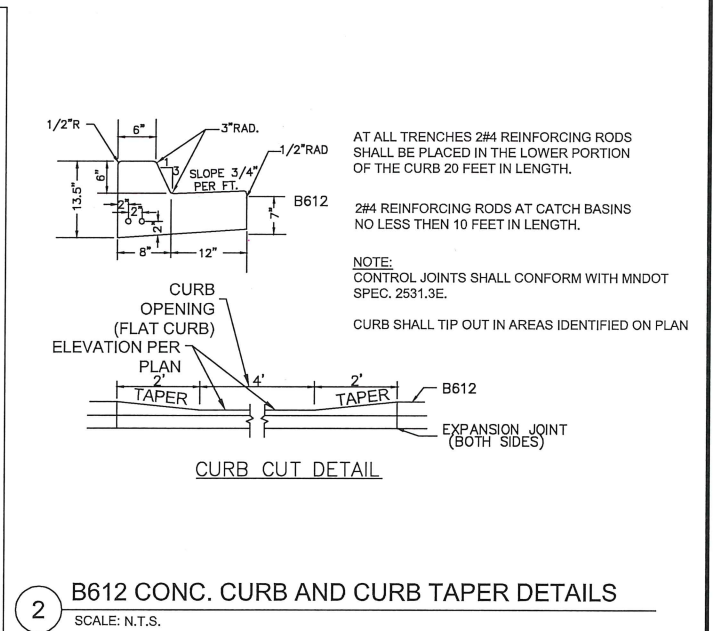
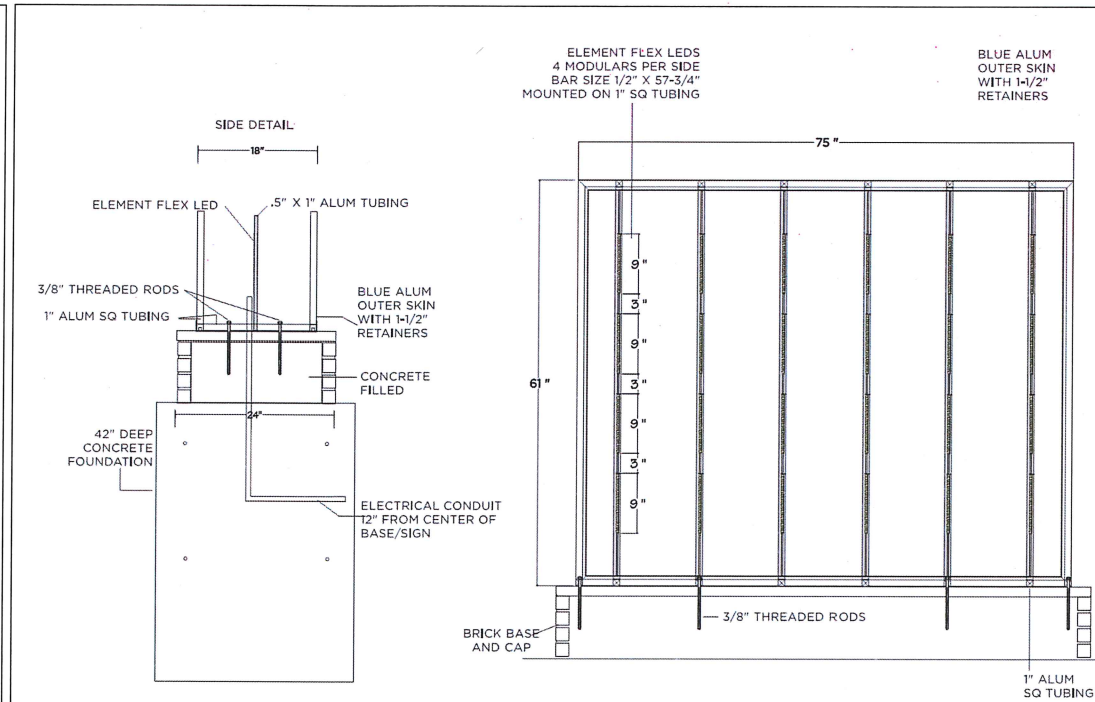
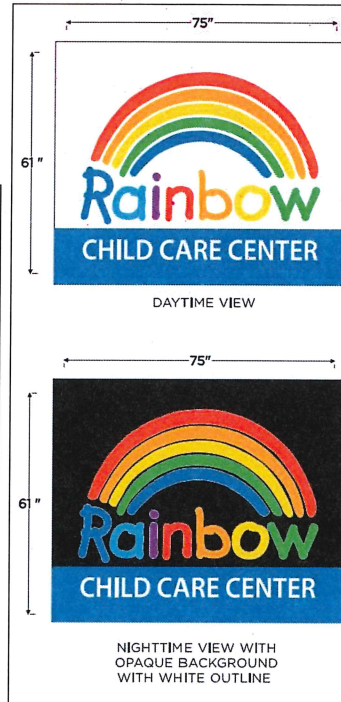
UTILITIES PLAN

COMM. NO. 14514	PLOTTED:
DRAWING NO.	C6

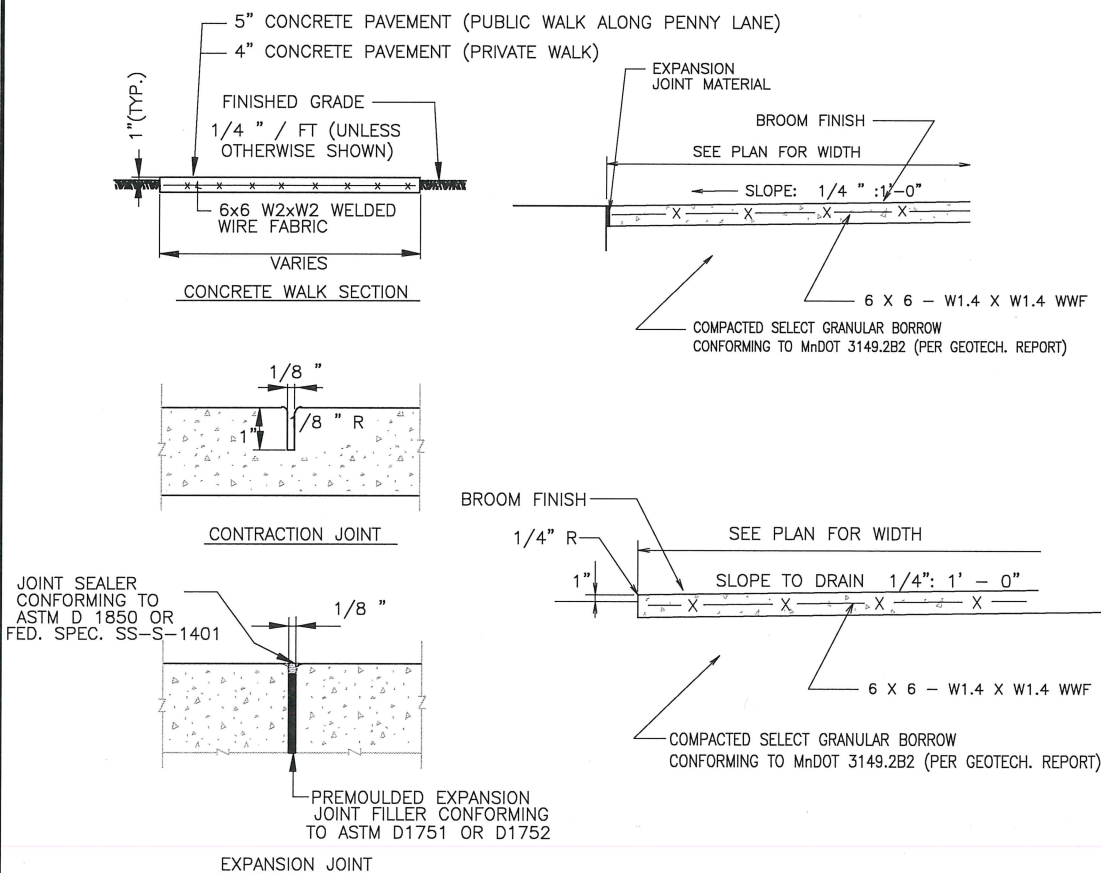
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Title Block T: 102 SITE DETAILS FROM ARCH1.r Tile Block



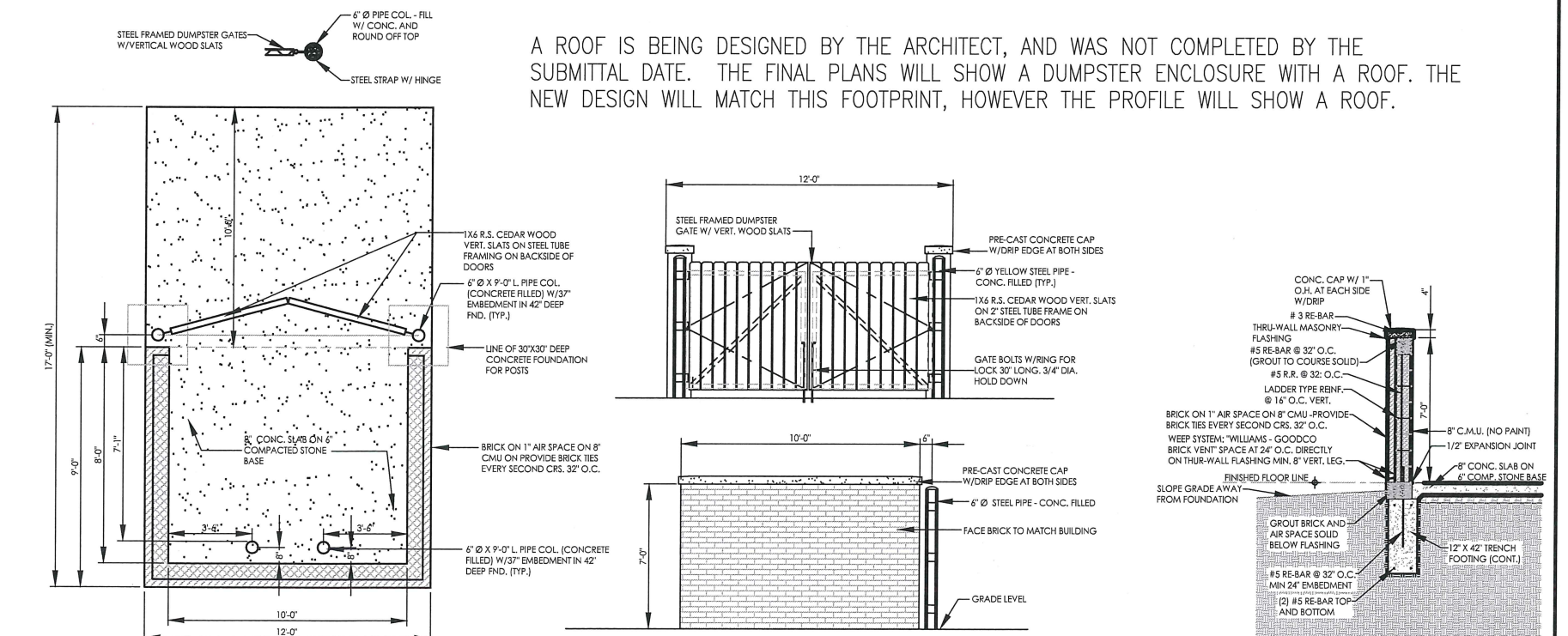
6 RAINBOW MONUMENT SIGN DETAIL
SCALE: N.T.S.



2 B612 CONC. CURB AND CURB TAPER DETAILS
SCALE: N.T.S.



1 CONCRETE SIDEWALK DETAILS
SCALE: N.T.S.



8 DUMPSTER ENCLOSURE PLAN
SCALE: N.T.S.

GENERAL NOTES:
1. ALL EXTERIOR MATERIALS TO MATCH BUILDING IF THERE IS NO BRICK TO MATCH - MATCH MASONRY.
2. ADHERE TO ALL LOCAL ORDINANCES AND DESIGN REQUIREMENTS. NOTIFY ARCHITECT OF ANY DISCREPANCIES.

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1			
NO.	DATE	DESCRIPTION OF REVISIONS	

ANDERSON ENGINEERING
ENGINEERING • ARCHITECTURE • LAND SURVEYING
ENVIRONMENTAL SERVICES • LANDSCAPE ARCHITECTURE

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DETAILS

COMM. NO. 14514	PLOTTED:
DRAWING NO.	C10